

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

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WASHINGTON, D.C., 27 April 2004

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Remove Pages/Work Packages

A/B blank
WP 0874 00
WP 0875 00
WP 0925 00
Index 17 – Index 28
Index 53 – Index 54
Index 93 – Index 94
Index 99 – Index 102
FP-1 (FP-2 blank)
None
FP-15 (FP-16 blank)
FP-21 (FP-22 blank) – FP-23 (FP-24 blank)
None
FP-63 (FP-64 blank)

Insert Pages/Work Packages

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WP 0874 00
WP 0875 00
WP 0925 00
Index 17 – Index 28
Index 53 – Index 54
Index 93 – Index 94
Index 99 – Index 102
FP-1 (FP-2 blank)
FP-14.1 (FP-14.2 blank)
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

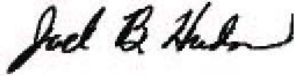
None
FP-77 (FP-78 blank)
None
FP-91 (FP-92 blank)
FP-97 (FP-98 blank) – FP-99 (FP-100 blank)
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FP-76.1 (FP-76.2 blank)
FP-77 (FP-78 blank)
FP-90.1 (FP-90.2 blank)
FP-91 (FP-92 blank)
FP-97 (FP-98 blank) – FP-99 (FP-100 blank)
FP-106.1 (FP-106.2 blank)

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Title
A/B blank
i – xxx
Chapter 26 WP Index
WP 0866 00
Chapter 27 WP Index
WP 0868 00
WP 0869 00
WP 0870 00
WP 0872 00
WP 0874 00
WP 0876 00
WP 0878 00
WP 0880 00
Chapter 28 WP Index
WP 0883 00
WP 0885 00
WP 0886 00
WP 0888 00
WP 0889 00 – 0890 00
Chapter 29 WP Index
WP 0901 00
Chapter 30 WP Index
WP 0906 00 – 0913 00
WP 0924 00 – 0926 00
Index
FP-7 (FP-8 blank) - FP-9 (FP-10 blank)
FP-21 (FP-22 blank) – FP-23 (FP-24 blank)
FP-31 (FP-32 blank) – FP-61 (FP-62 blank)
FP-69 (FP-70 blank) – FP-71 (FP-72 blank)
FP-83 (FP-84 blank) – FP-85 (FP-86 blank)
FP-97 (FP-98 blank) – FP-99 (FP-100 blank)
Cover

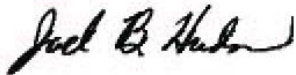
Insert Pages/Work Packages

Title
A/B
i – vi
None
None
Chapter 27 WP Index
WP 0868 00
None
WP 0870 00
None
WP 0874 00
None
WP 0878 00
None
Chapter 28 WP Index
None
WP 0885 00
None
WP 0888 00
None
Chapter 29 WP Index
WP 0901 00
Chapter 30 WP Index
None
WP 0924 00 – 0926 00
Index
FP-7 (FP-8 blank) – FP-9 (FP-10 blank)
FP-21 (FP-22 blank) – FP-23 (FP-24 blank)
None
FP-69 (FP-70 blank) – FP-71 (FP-72 blank)
FP-83 (FP-84 blank) – FP-85 (FP-86 blank)
FP-97 (FP-98 blank) – FP99 (FP-100 blank)
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2350-01-369-7253 (EIC AFD)**

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2350-01-369-6079 (EIC AFB)**

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Remove Pages/Work Packages

A/B
i-xxix/xxx blank
WP 0824 00
WP 0845 00
Chapter 26 WP Index
NEW
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NEW
WP 0871 00
WP 0898 00
WP 0905 00
WP 0906 00
WP 0914 00
WP 0919 00
WP 0924 00
WP 0925 00
WP 0926 00
WP 0928 00
Index
FO-7
FO-8
FO-9
FO-10
FO-11

Insert Pages/Work Packages

A/B blank
i-xxx
WP 0824 00
WP 0845 00
Chapter 26 WP Index
WP 0866 01
WP 0866 02
WP 0866 03
WP 0866 04
WP 0866 05
WP 0866 06
WP 0871 00
WP 0898 00
WP 0905 00
WP 0906 00
WP 0914 00
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WP 0928 00
Index
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Dates of issue for original and updated pages/work packages are:

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- Change 2 (2 October 2003)
- Change 3 (27 April 2004)

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Page/WP No.	*Change No.	Page/WP No.	*Change No.	Page/WP No.	*Change No.
Cover	2	WP 0890 00 (Deleted)	2	FP-7 – FP-10 blank	2
A/B blank	3	WP 0891 00 – 0894 00	0	FP-11 – FP-14 blank	0
i	2	Chapter 29 WP index	2	FP-14.1/FP-14.2 blank (Added)	3
ii	1	WP 0895 00 – 0897 00	0	FP-15/FP-16 blank	3
iii – vi	2	WP 0898 00	1	FP-17 – FP-20 blank	0
Chapter 24 WP Index	0	WP 0899 00 – 0900 00	0	FP-21 – FP-24 blank	3
WP 0813 00 – 0823 00	0	WP 0901 00	2	FP-25 – FP-30 blank	0
WP 0824 00	1	WP 0902 00 – 0904 00	0	FP-30.1/FP-30.2 blank (Added)	3
WP 0825 00 – 0844 00	0	WP 0905 00	1	FP-31 – FP-62 blank (Deleted)	2
WP 0845 00	1	Chapter 30 WP Index	2	FP-63/FP-64 blank	3
WP 0846 00 – 0857 00	0	WP 0906 00 (Deleted)	2	FP-65 – FP-68 blank	0
Chapter 25 WP Index	0	WP 0907 00 (Deleted)	2	FP-69 – FP-72 blank	2
WP 0858 00 – 0865 00	0	WP 0908 00 (Deleted)	2	FP-73 – FP-76 blank	0
Chapter 26 WP Index (Deleted)	2	WP 0909 00 (Deleted)	2	FP-76.1/FP-76.2 blank (Added)	3
WP 0866 00 (Deleted)	2	WP 0910 00 (Deleted)	2	FP-77/FP-78 blank	3
Chapter 27 WP Index	2	WP 0911 00 (Deleted)	2	FP-79 – FP-82 blank	0
WP 0866 01 – 0866 06 (Added)	1	WP 0912 00 (Deleted)	2	FP-83 – FP-86 blank	2
WP 0867 00	0	WP 0913 00 (Deleted)	2	FP-87 – FP-90 blank	0
WP 0868 00	2	WP 0914 00	1	FP-90.1/FP-90.2 blank (Added)	3
WP 0869 00 (Deleted)	2	WP 0915 00 – 0918 00	0	FP-91/FP-92 blank	3
WP 0870 00	2	WP 0919 00	1	FP-93 – FP-96 blank	1
WP 0871 00	3	WP 0920 00 – 0923 00	0	FP-97 – FP-100 blank	3
WP 0872 00 (Deleted)	2	Chapter 31 WP Index	0	FP-101 – FP-102 blank	0
WP 0873 00	0	WP 0924 00	2	FP-103 – FP-106 blank	1
WP 0874 00 – 0875 00	3	WP 0925 00	3	FP-106.1/FP-106.2 blank (Added)	3
WP 0876 00 (Deleted)	2	WP 0926 00	2	FP-107 – FP-122 blank	1
WP 0877 00	0	WP 0927 00	0	DA 2028 Sample/Reverse	0
WP 0878 00	2	WP 0928 00	1	DA 2028/Reverse (3)	0
WP 0879 00	0	Index 1 – Index 16	2	Authentication	0
WP 0880 00 (Deleted)	2	Index 17 – Index 28	3	Metric Chart	0
WP 0881 00 – 0882 00	0	Index 29 – Index 52	2	Back Cover	0
Chapter 28 WP Index	2	Index 53 – Index 54	3		
WP 0883 00 (Deleted)	2	Index 55 – Index 92	2		
WP 0884 00	0	Index 93 – Index 94	3		
WP 0885 00	2	Index 95 – Index 98	2		
WP 0886 00 (Deleted)	2	Index 99 – Index 102	3		
WP 0887 00	0	Index 103/104 blank	2		
WP 0888 00	2	FP-1/FP-2 blank	3		
WP 0889 00 (Deleted)	2	FP-3 – FP-6 blank	0		

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TABLE OF CONTENTS

WP Sequence No.

Volume 6

CHAPTER 24 — UNIT MAINTENANCE INSTRUCTIONS FOR ELECTRICAL EQUIPMENT
(M1068A3 ONLY)

REPLACE APIU RACK MOUNT AND BRACKET (M1068A3 ONLY)..... 0813 00

REPLACE RIGHT EQUIPMENT RACK BRACKETS AND MOUNTS (M1068A3 ONLY)..... 0814 00

REPLACE AC POWER EXTENSION BOX A7 (M1068A3 ONLY)..... 0815 00

REPLACE SIGNAL PATCH PANEL BOX A10 (M1068A3 ONLY)..... 0816 00

REPLACE EXTERNAL COMMUNICATION BOX A11 (M1068A3 ONLY)..... 0817 00

REPLACE EXTERNAL COMMUNICATION BOX A11 LID AND LATCHES (M1068A3 ONLY)..... 0818 00

REPLACE CURBSIDE DATA PANEL ASSEMBLY A12 (M1068A3 ONLY)..... 0819 00

REPLACE LAN GROUND BOX ASSEMBLY A15 (M1068A3 ONLY)..... 0820 00

REPAIR LAN GROUND BOX ASSEMBLY A15 (M1068A3 ONLY)..... 0821 00

REPLACE AC POWER EXTENSION BOX A19 (M1068A3 ONLY)..... 0822 00

REPLACE/REPAIR PRINTER MOUNT (M1068A3 ONLY)..... 0823 00

REPLACE/REPAIR POWER SUPPLY STORAGE BOX ASSEMBLY (M1068A3 ONLY)..... 0824 00

REPLACE FLUORESCENT LIGHT ASSEMBLIES (M1068A3 ONLY)..... 0825 00

REPLACE POWER CONTROL ENCLOSURE ASSEMBLY A1 (M1068A3 ONLY)..... 0826 00

REPLACE POWER CONTROL ENCLOSURE AC AND DC METERS AND LIGHT INDICATORS (M1068A3 ONLY)..... 0827 00

REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET (M1068A3 ONLY)..... 0828 00

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

REPLACE INVERTER HOUSING A2 TERMINAL BLOCKS TB1 AND TB2 (M1068A3 ONLY)..... 0830 00

REPLACE/REPAIR POWER DISTRIBUTION BOX A3 (M1068A3 ONLY)..... 0831 00

REPLACE POWER ENTRY BOX ASSEMBLY A4 (M1068A3 ONLY)..... 0832 00

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

REPLACE ROADSIDE DATA PANEL ASSEMBLY A13 AND BRACKET (M1068A3

TABLE OF CONTENTS (cont)

	<u>WP Sequence No.</u>
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
REPAIR CABLE ASSEMBLY (W4/W6) (M1068A3 ONLY).....	0841 00
REPLACE AC POWER EXTENSION CABLE (W7) (M1068A3 ONLY).....	0842 00
REPLACE AC POWER EXTENSION CABLE (W8) (M1068A3 ONLY).....	0843 00
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 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
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
REPLACE CABLE W126 (M1068A3 ONLY).....	0856 00
REPLACE AC CABLE ASSEMBLY (W252) (M1068A3 ONLY).....	0857 00
 CHAPTER 25 — UNIT MAINTENANCE INSTRUCTIONS FOR GAUGES	
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
 CHAPTER 26 — DELETED	
DELETED.....	0866 00

TABLE OF CONTENTS (cont)

WP Sequence No.

CHAPTER 27 — UNIT MAINTENANCE INSTRUCTIONS FOR PRECISION INSTRUMENTS AND SYSTEMS

REPLACE DVE SENSOR SET ASSEMBLY POWER CABLE (M58 ONLY)	0866 01
REPLACE DRIVER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY).....	0866 02
REPLACE AN/VAS-5 DRIVER'S VISION ENHANCER STOWAGE BRACKET (M58 ONLY)	0866 03
REPLACE DRIVER'S VISION ENHANCER (DVE) AN/VAS-5 POWER SUPPLY CABLE (M58 ONLY)	0866 04
REPLACE AN/VAS-5 DRIVER'S NIGHT VISION ENHANCER SENSOR SET ASSEMBLY ADAPTER (DVE) (M58 ONLY).....	0866 05
REPLACE COMMANDER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY)	0866 06
REPLACE STE/ICE PULSE TACHOMETER	0867 00
REPLACE STE/ICE SHUNT GUARD (M113A3 AND M1059A3 ONLY).....	0868 00
DELETED	0869 00
REPLACE STE/ICE SHUNT (M113A3 AND M1059A3 ONLY)	0870 00
REPLACE STE/ICE SHUNT (M577A3 AND M1068A3 ONLY)	0871 00
DELETED	0872 00
REPLACE STE/ICE SHUNT (M1064A3 ONLY)	0873 00
REPLACE STE/ICE DISTRIBUTION BOX (M113A3 AND M1059A3 ONLY)	0874 00
REPLACE STE/ICE DISTRIBUTION BOX (M577A3 AND M1068A3 ONLY)	0875 00
DELETED	0876 00
REPLACE STE/ICE DISTRIBUTION BOX (M1064A3 ONLY)	0877 00
REPLACE STE/ICE CREW WIRING HARNESS (M113A3 AND M1059A3 ONLY)	0878 00
REPLACE STE/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY).....	0879 00
DELETED	0880 00
REPLACE STE/ICE CREW WIRING HARNESS (M1064A3 ONLY).....	0881 00
REPLACE STE/ICE ENGINE WIRING HARNESS.....	0882 00

CHAPTER 28 — UNIT MAINTENANCE INSTRUCTIONS FOR COMMUNICATION SYSTEM (M58 ONLY)

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

TABLE OF CONTENTS (cont)

	<u>WP Sequence No.</u>
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
 CHAPTER 29 — UNIT MAINTENANCE INSTRUCTIONS FOR FIRE FIGHTING EQUIPMENT	
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
 CHAPTER 30 — UNIT MAINTENANCE INSTRUCTIONS FOR NUCLEAR, BIOLOGICAL, AND CHEMICAL (NBC) EQUIPMENT	
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

TABLE OF CONTENTS (cont)

WP Sequence No

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

CHAPTER 31 — UNIT SUPPORTING INFORMATION

REFERENCES 0924 00

MAINTENANCE ALLOCATION CHART (MAC)..... 0925 00

COMMON TOOLS AND SUPPLEMENTS AND SPECIAL TOOLS/FIXTURES LIST 0926 00

FABRICATED TOOL 0927 00

EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST 0928 00

M113A3 ELECTRICAL SCHEMATIC FP-1

M577A3/M1068A3 ELECTRICAL SCHEMATIC..... FP-15

DELETED FP-31

DELETED FP-47

M1059A3 ELECTRICAL SCHEMATIC FP-63

M1064A3 ELECTRICAL SCHEMATIC FP-77

M58 ELECTRICAL SCHEMATIC FP-91

M1068A3 SCIPS ELECTRICAL EQUIPMENT SCHEMATIC..... FP-107

M1068A3 SICPS POWER CONTROL ENCLOSURE A1 SCHEMATIC FP-113

STE/ICE SCHEMATIC FP-117

M113A3 NBC INSTALLATION WIRING DIAGRAM FP-121

CHAPTER 24

UNIT MAINTENANCE INSTRUCTIONS
FOR ELECTRICAL EQUIPMENT (M1068A3 ONLY)

WORK PACKAGE INDEX

<u>Title</u>	<u>Sequence No.</u>
REPLACE APIU RACK MOUNT AND BRACKET (M1068A3 ONLY).....	0813 00
REPLACE RIGHT EQUIPMENT RACK BRACKETS AND MOUNTS (M1068A3 ONLY).....	0814 00
REPLACE A.C. POWER EXTENSION BOX A7 (M1068A3 ONLY).....	0815 00
REPLACE SIGNAL PATCH PANEL BOX A10 (M1068A3 ONLY).....	0816 00
REPLACE EXTERNAL COMMUNICATION BOX A11 (M1068A3 ONLY).....	0817 00
REPLACE EXTERNAL COMMUNICATION BOX A11 LID AND LATCHES (M1068A3 ONLY).....	0818 00
REPLACE CURBSIDE DATA PANEL ASSEMBLY A12 (M1068A3 ONLY).....	0819 00
REPLACE LAN GROUND BOX ASSEMBLY A15 (M1068A3 ONLY).....	0820 00
REPAIR LAN GROUND BOX ASSEMBLY A15 (M1068A3 ONLY).....	0821 00
REPLACE A.C. POWER EXTENSION BOX A19 (M1068A3 ONLY).....	0822 00
REPLACE/REPAIR PRINTER MOUNT (M1068A3 ONLY).....	0823 00
REPLACE/REPAIR POWER SUPPLY STORAGE BOX ASSEMBLY (M1068A3 ONLY).....	0824 00
REPLACE FLUORESCENT LIGHT ASSEMBLIES (M1068A3 ONLY).....	0825 00
REPLACE POWER CONTROL ENCLOSURE ASSEMBLY A1 (M1068A3 ONLY).....	0826 00
REPLACE POWER CONTROL ENCLOSURE AC AND DC METERS AND LIGHT INDICATORS (M1068A3 ONLY).....	0827 00
REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET (M1068A3 ONLY).....	0828 00
REPLACE POWER CONTROL ENCLOSURE CIRCUIT 44A LEAD (M1068A3 ONLY).....	0829 00
REPLACE INVERTER HOUSING A2 TERMINAL BLOCKS TB1 AND TB2 (M1068A3 ONLY).....	0830 00
REPLACE/REPAIR POWER DISTRIBUTION BOX A3 (M1068A3 ONLY).....	0831 00
REPLACE POWER ENTRY BOX ASSEMBLY A4 (M1068A3 ONLY).....	0832 00
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
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
REPAIR CABLE ASSEMBLY (W4/W6) (M1068A3 ONLY).....	0841 00
REPLACE AC POWER EXTENSION CABLE (W7) (M1068A3 ONLY).....	0842 00
REPLACE AC POWER EXTENSION CABLE (W8) (M1068A3 ONLY).....	0843 00
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 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
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
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

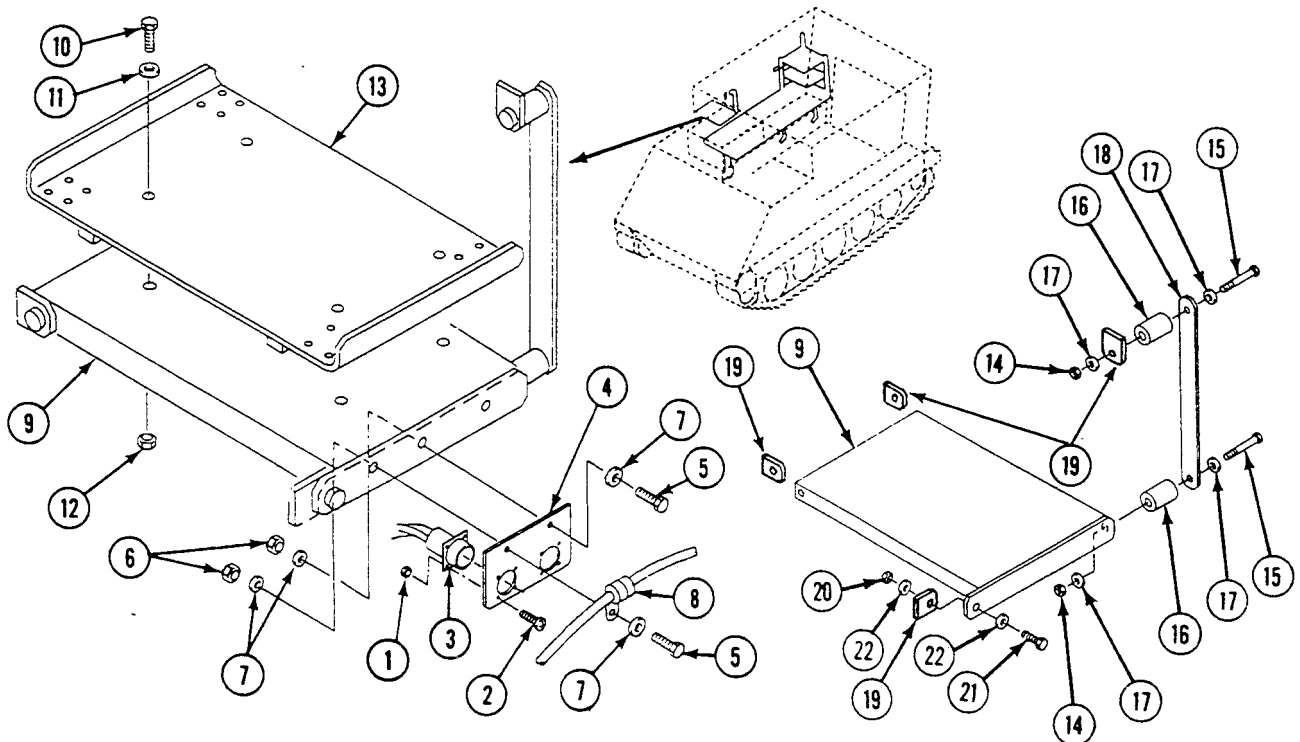
Locknut (15)

Personnel Required

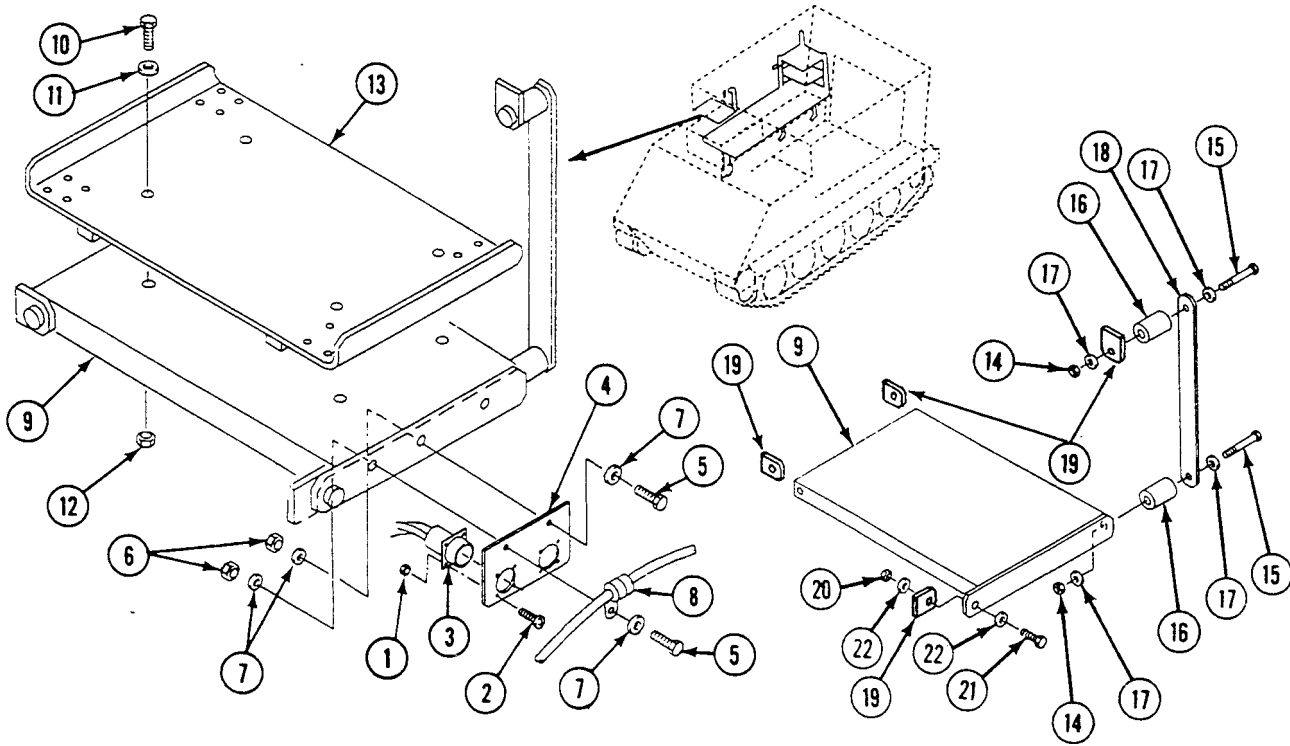
Unit Mechanic

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.



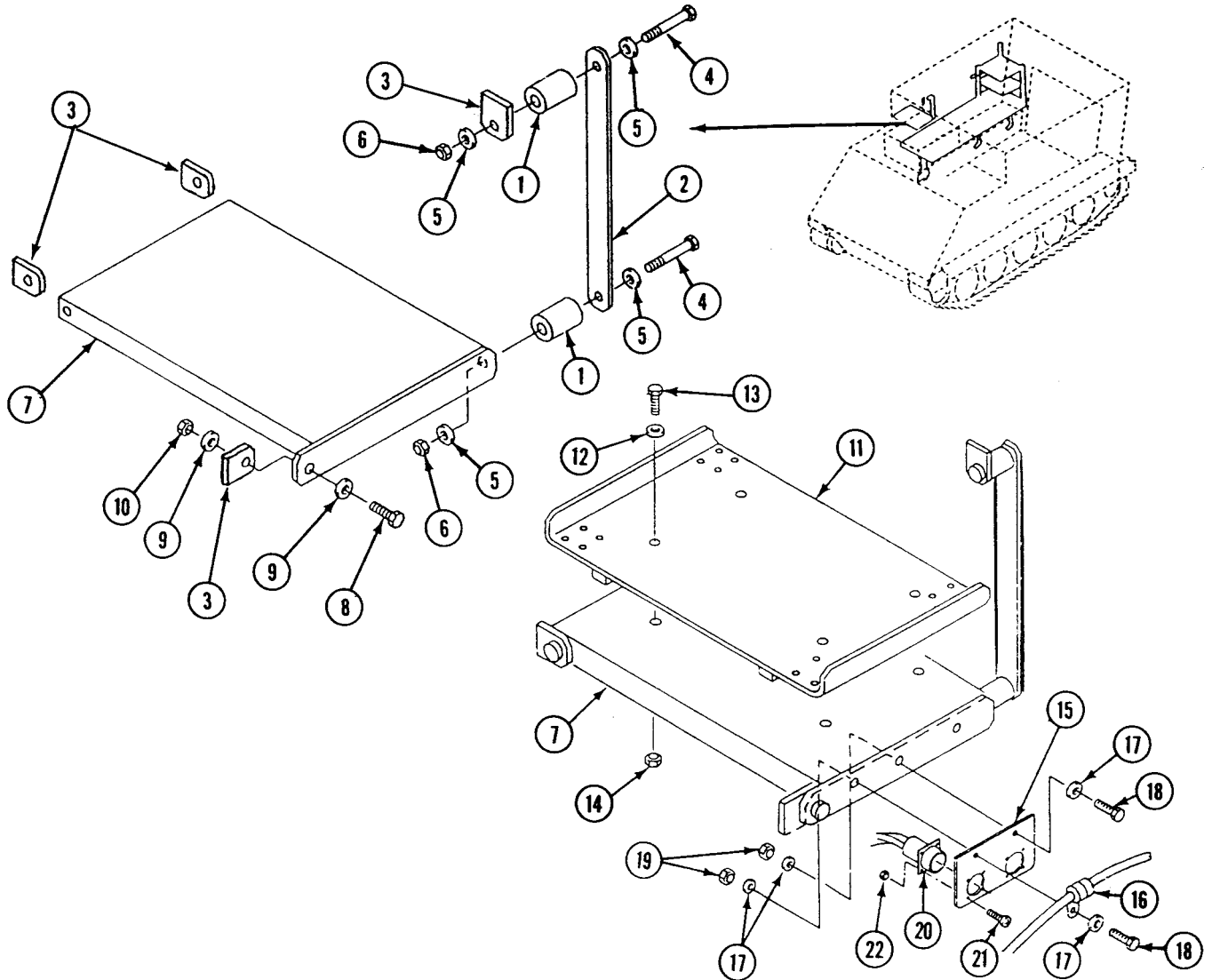
4. Remove two locknuts (14), screws (15), spacers (16), washers (17), and hanger (18) from bulkhead mount (19) and rack (9). Discard locknut.
5. Remove three locknuts (20), screws (21), six washers (22), and rack (9) from three bulkhead mounts (19). Discard locknuts.



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)

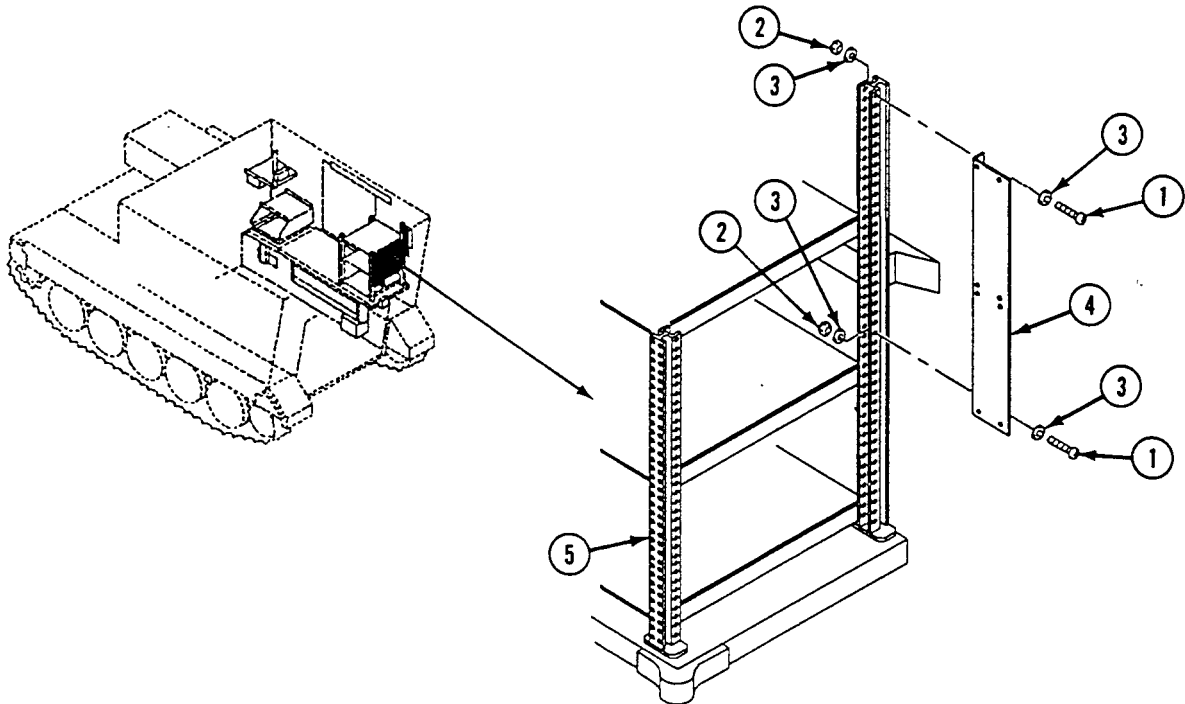
LAN ground box assembly A15 removed (WP 0820 00)

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.

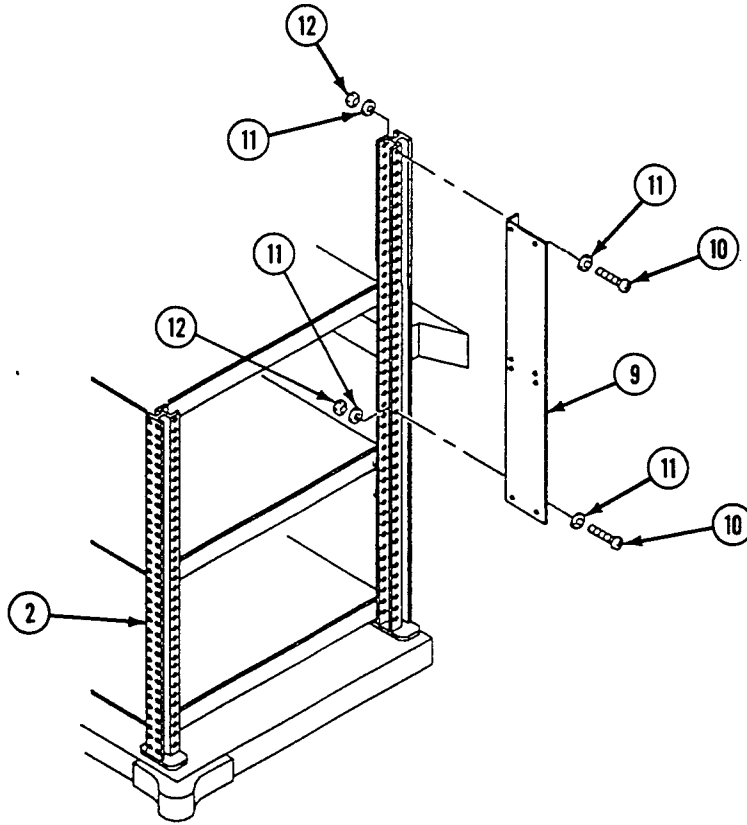


REPLACE RIGHT EQUIPMENT RACK BRACKETS AND MOUNTS (M1068A3 ONLY) —
Continued

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

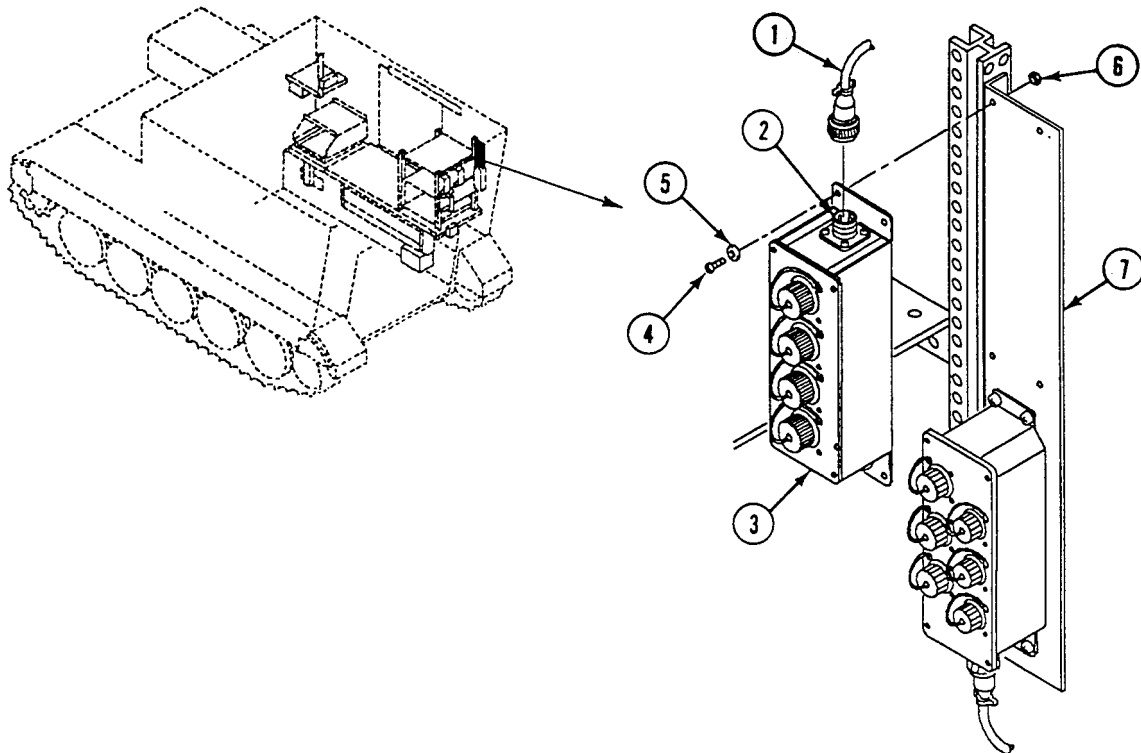
Locknut (4)

Personnel Required

Power-Generation Equipment Repairer 52D10

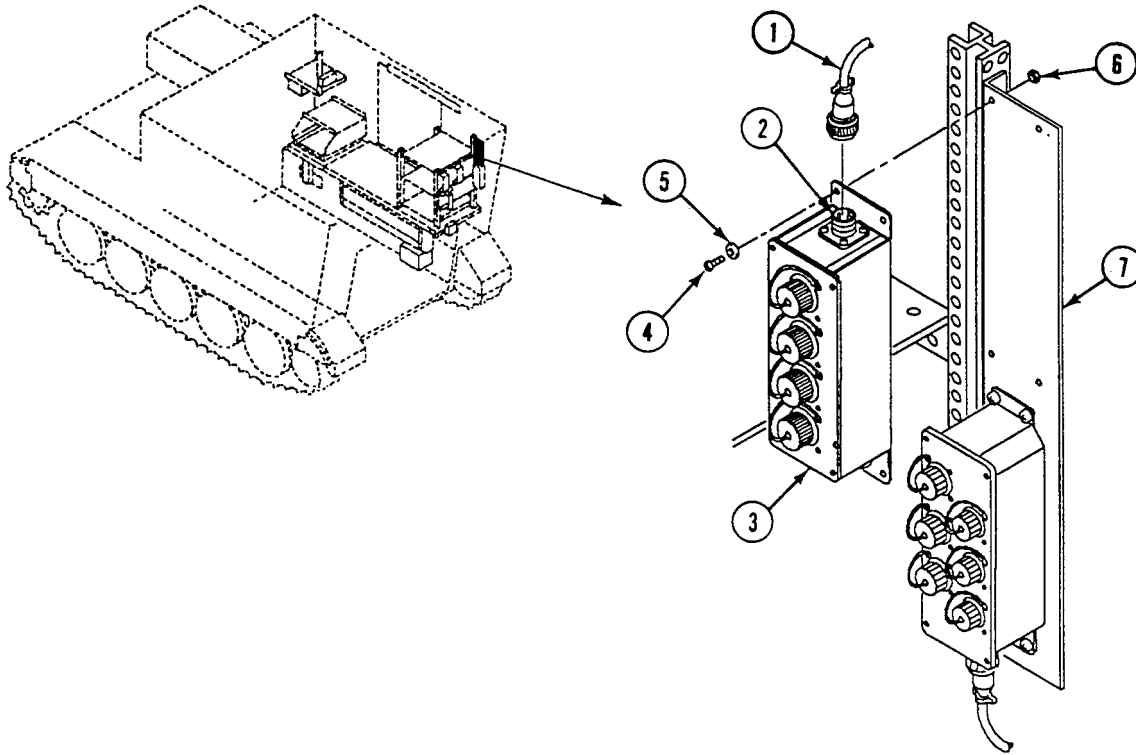
REMOVAL

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

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

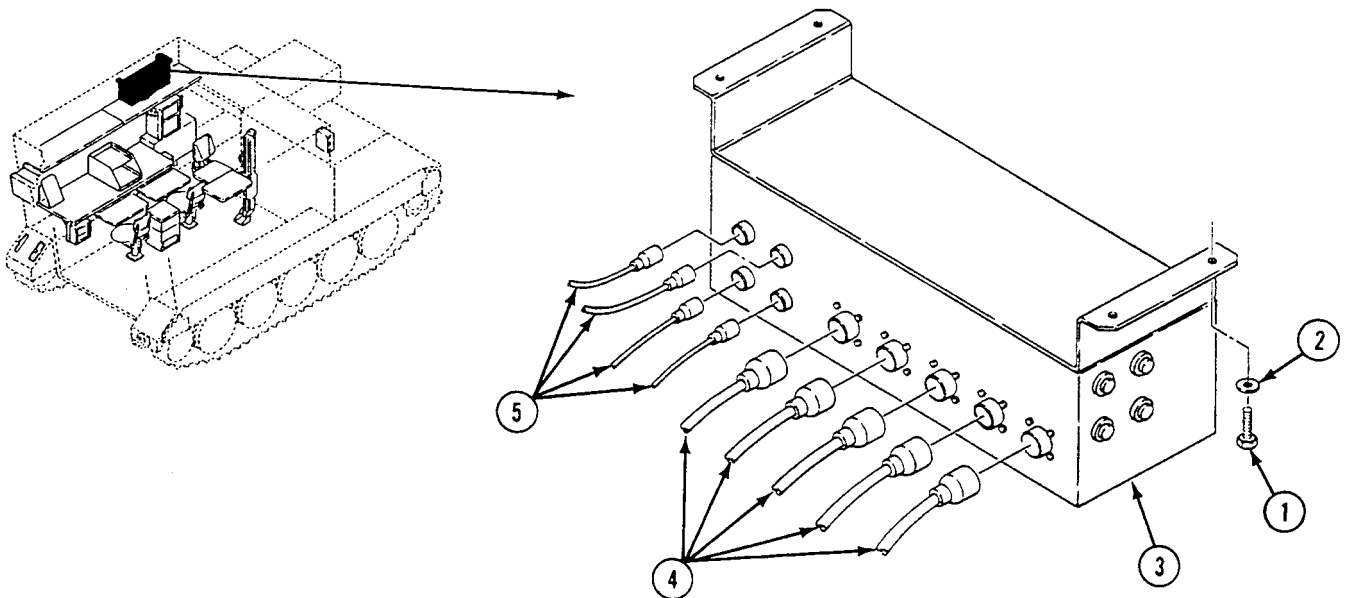
Lockwasher (4)

Personnel Required

Signal Support System Specialist 31U10

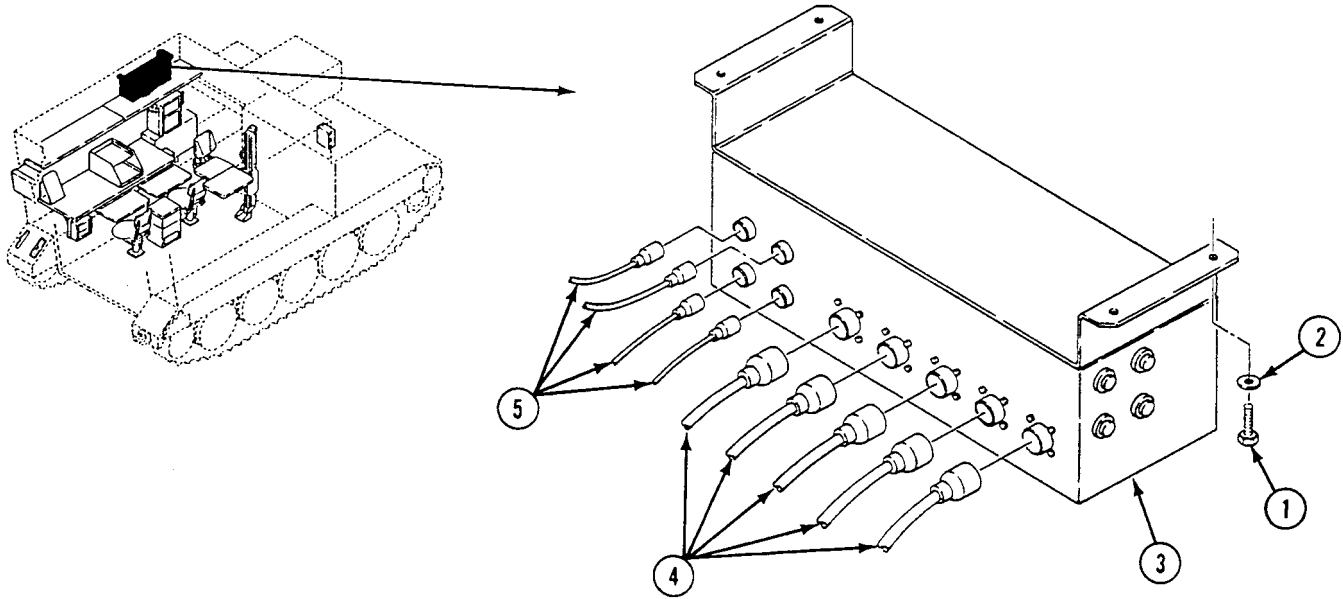
REMOVAL

1. Remove four screws (1), lockwashers (2), 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 (2), and screws (1) 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

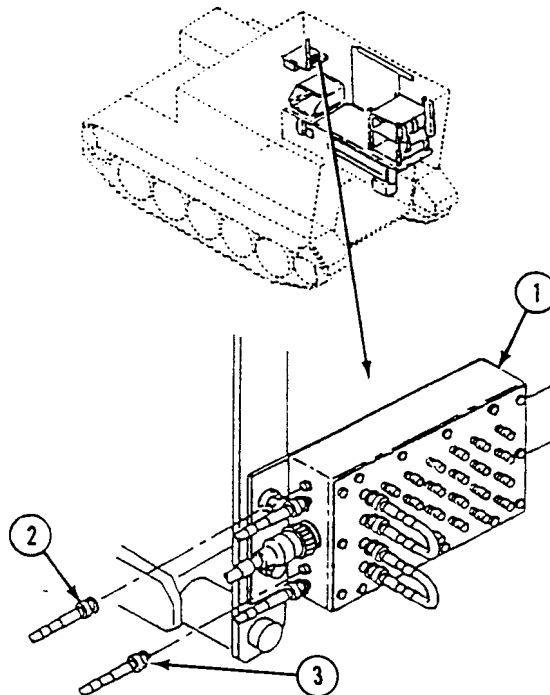
Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected (TM 11-7010-256-12)
 Battery ground lead disconnected (WP 0338 00)

REMOVAL

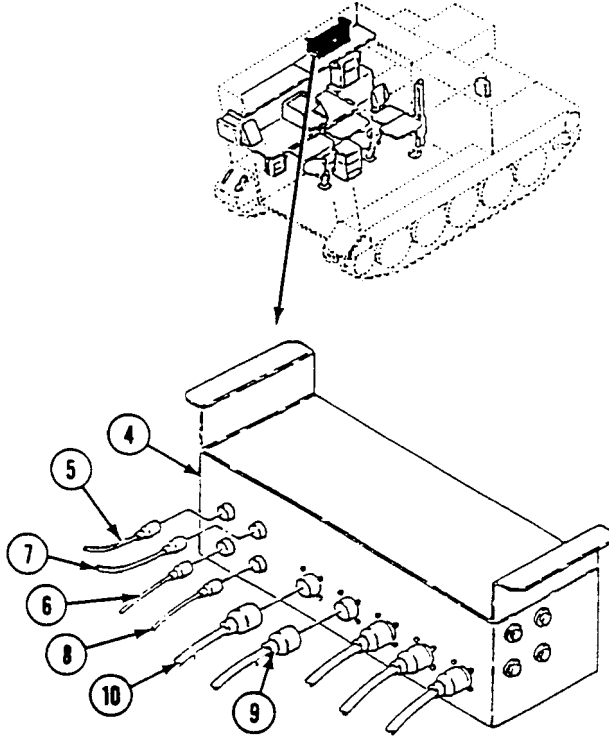
NOTE

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

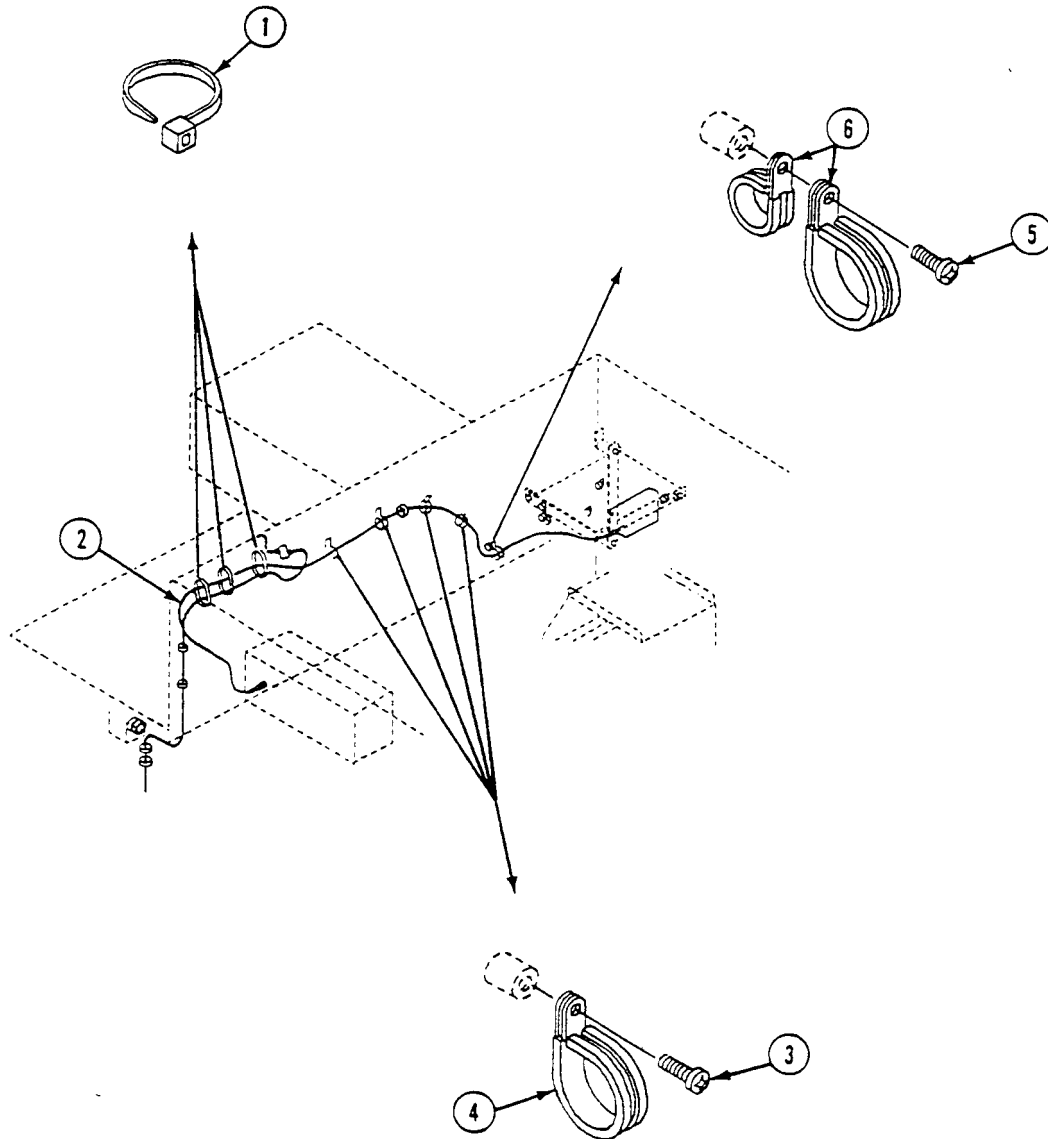
1. Disconnect cable W101 (2) from J1 and cable W102 (3) from J4 and from curbside data panel assembly (1).



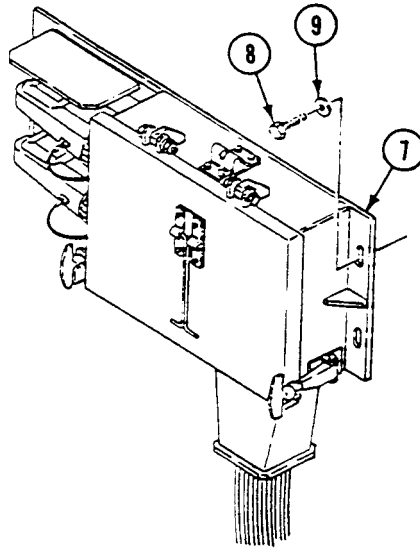
2. Disconnect cable W111 (5) from J125 , cable W112 (6) from J123, cable W113 (7) from J126, cable W114 (8) from J124, cable W115 (9) from J136, and cable W118 (10) from J135 and from signal patch panel box A10 (4).



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.

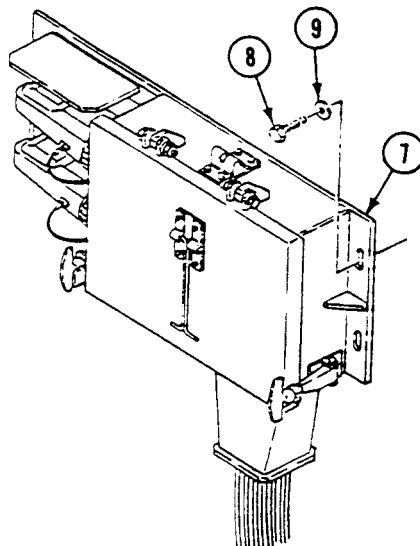


6. Have helper hold external communication box A11 (7) in place. Remove four screws (8) and washers (9) holding box to front bulkhead.
7. Remove external communication box A11 (7). Have helper guide cables through hull opening.

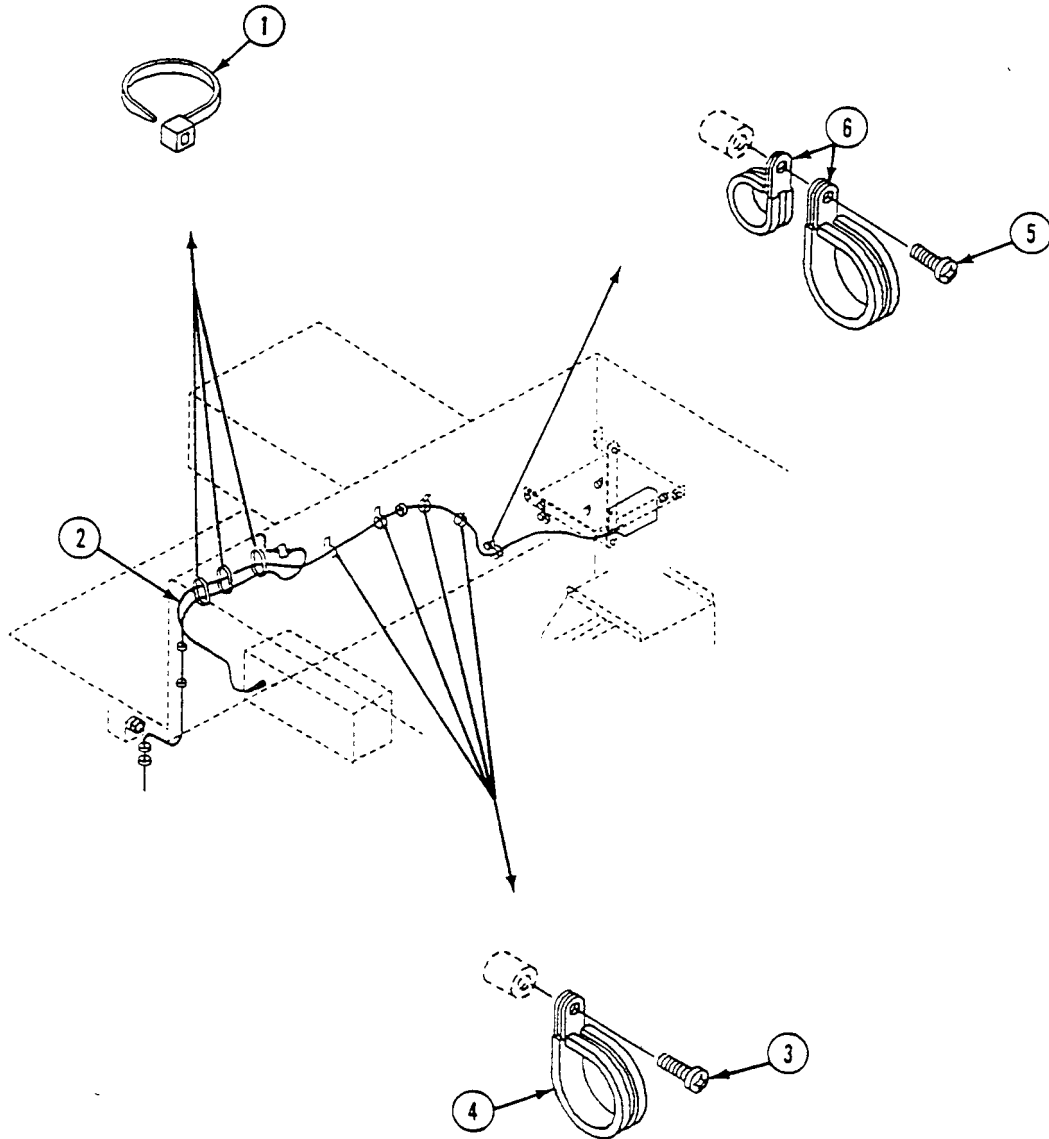


INSTALLATION

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).

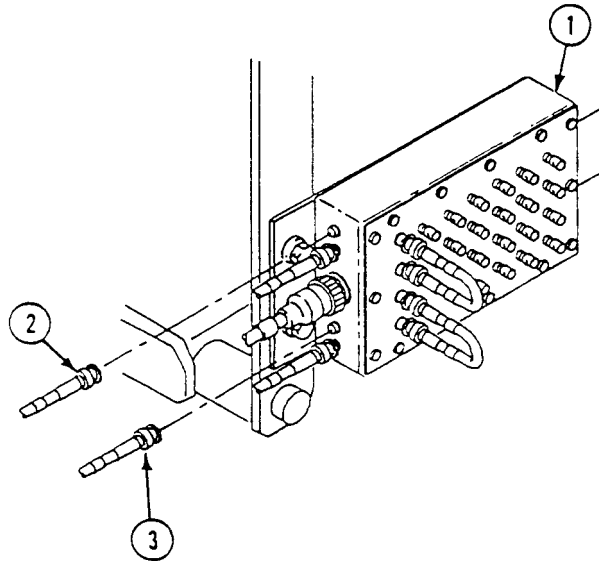


3. Route cable bundle (2) in carrier. Secure with new three straps (1).
4. Secure cable bundle (2) to carrier.

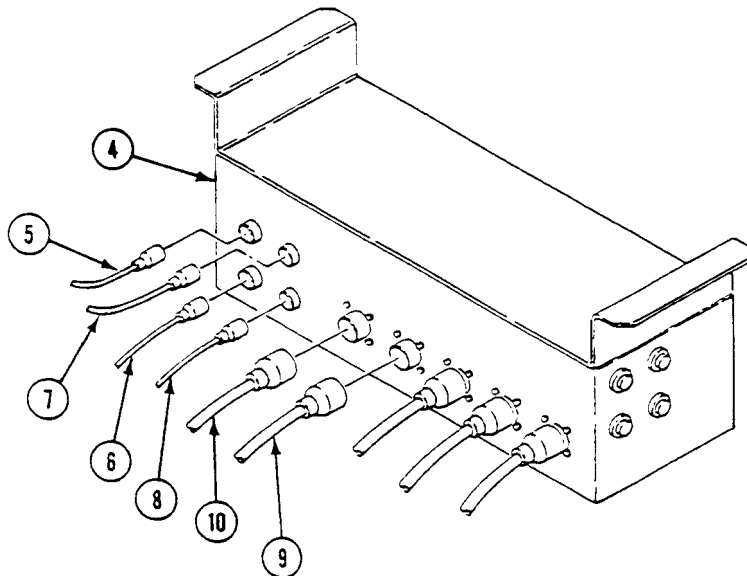


- a. Use four clamps (4) and screws (3).
- b. Use clamp (6) and screw (5).

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

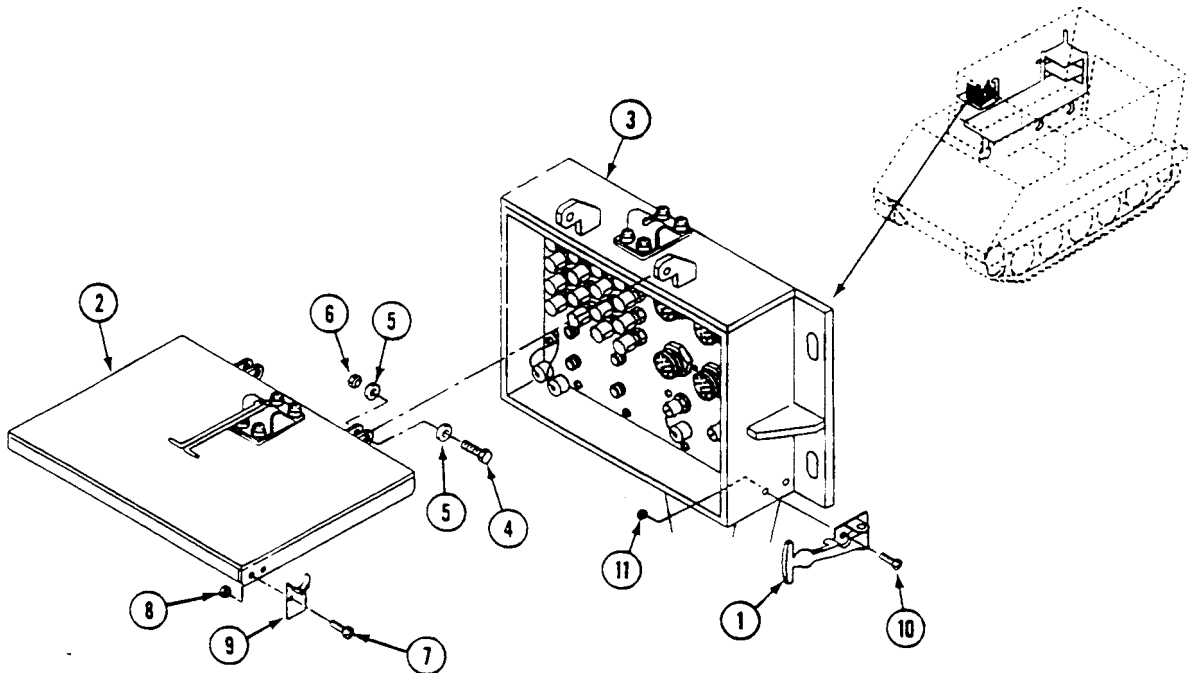
Locknut (2)
Locknut (8)

Personnel Required

Unit Mechanic

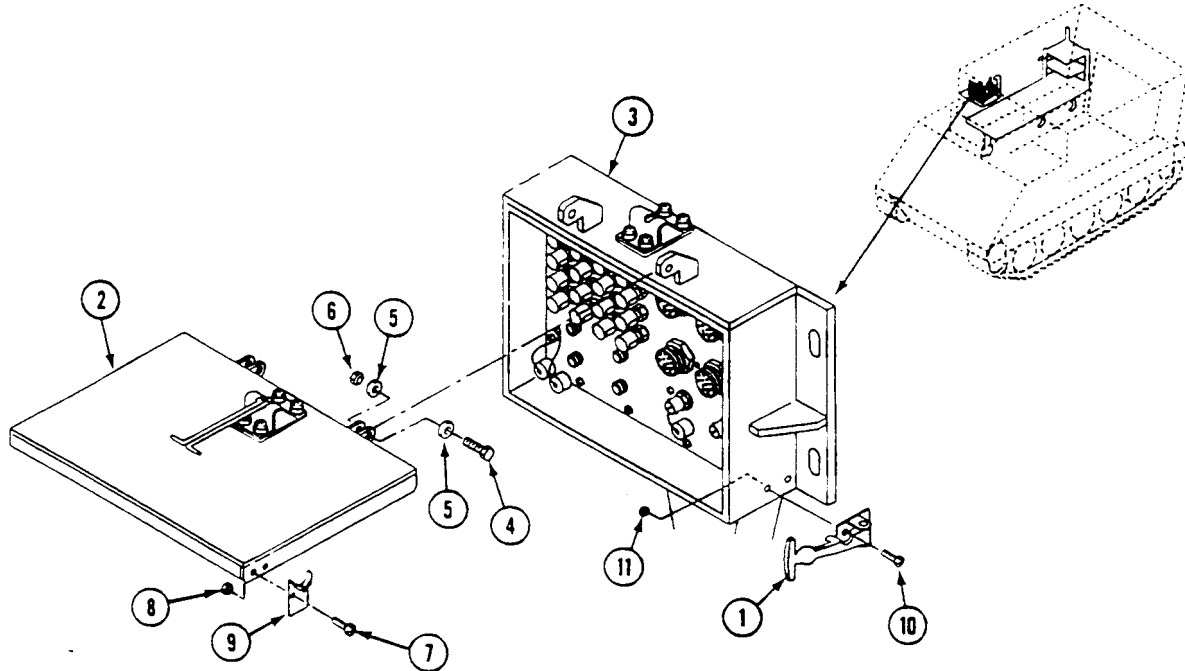
REMOVAL

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)**0818 00****— Continued****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

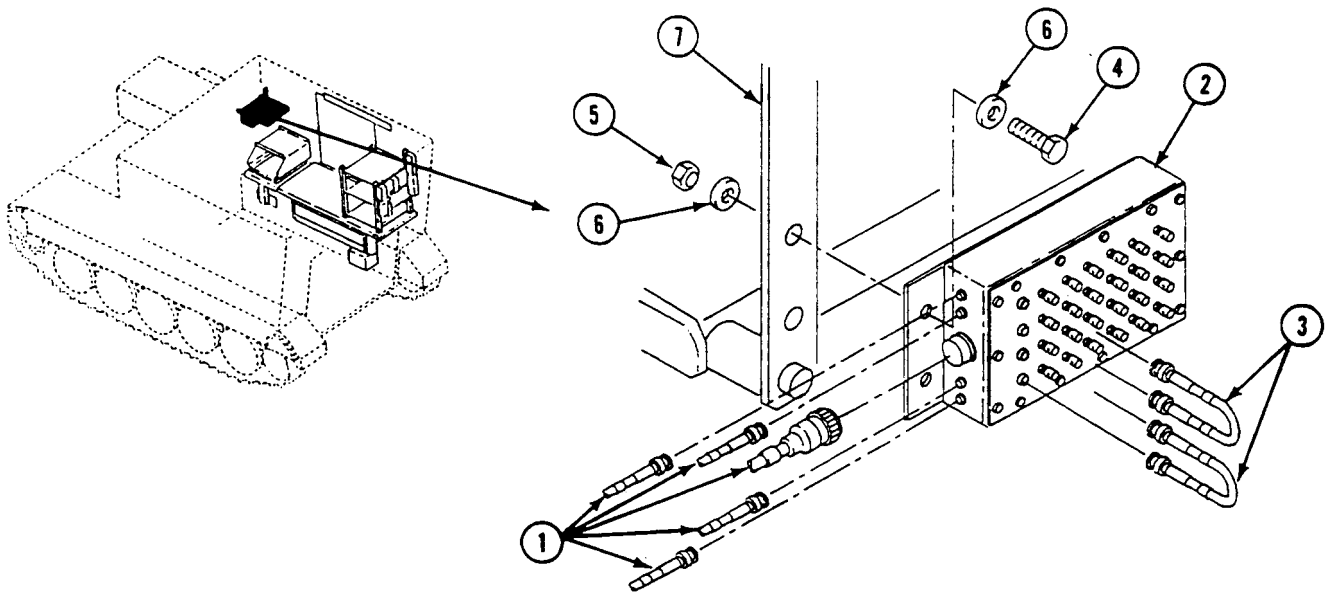
Engine stopped (see your -10)
 Carrier blocked (see your -10)

REMOVAL

NOTE

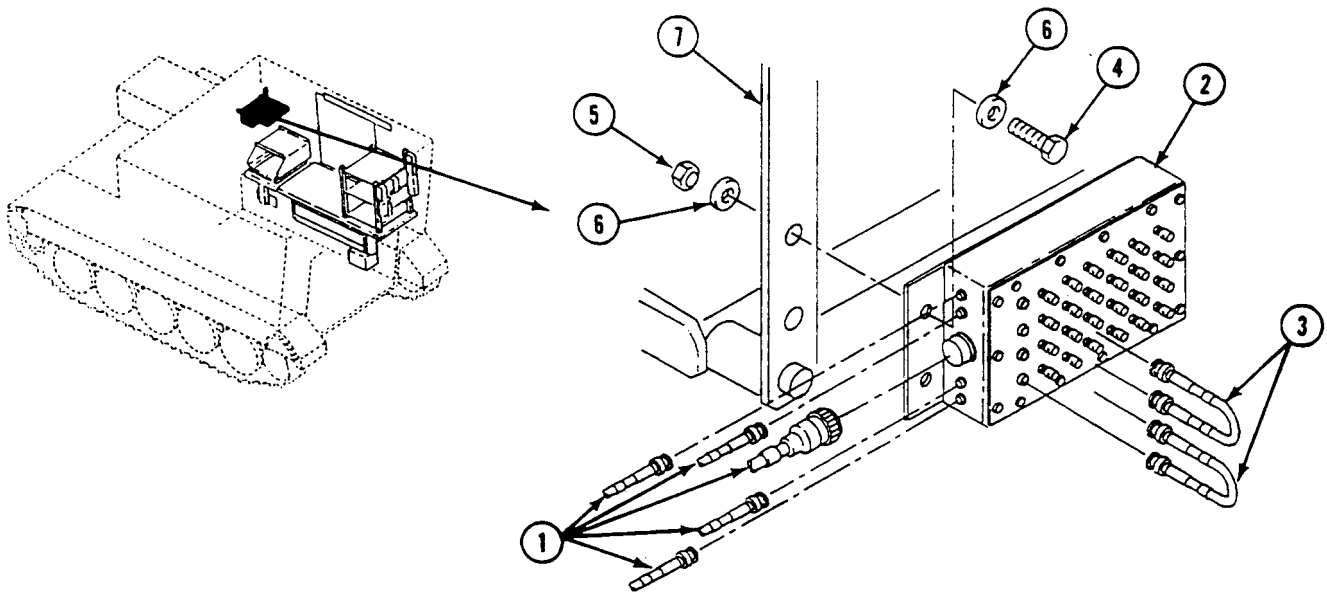
Tag all cables for reassembly.

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

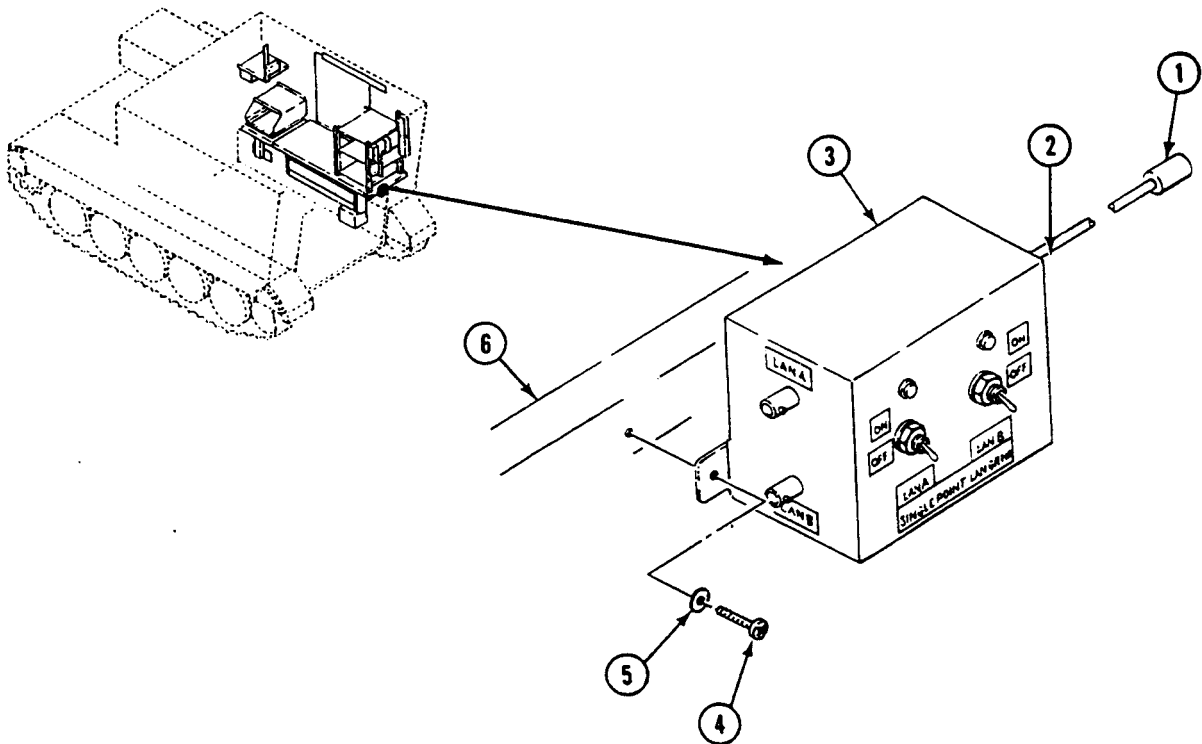
Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Personnel Required

Signal Support System Specialist 31U10

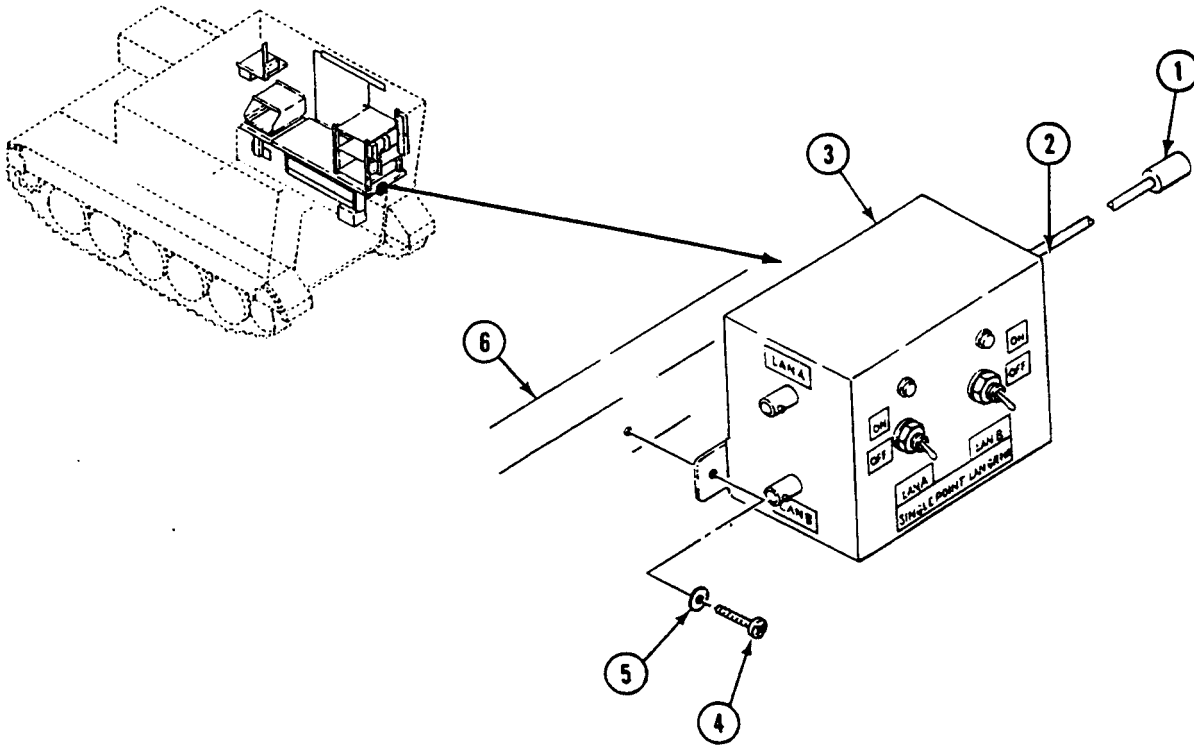
REMOVAL

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

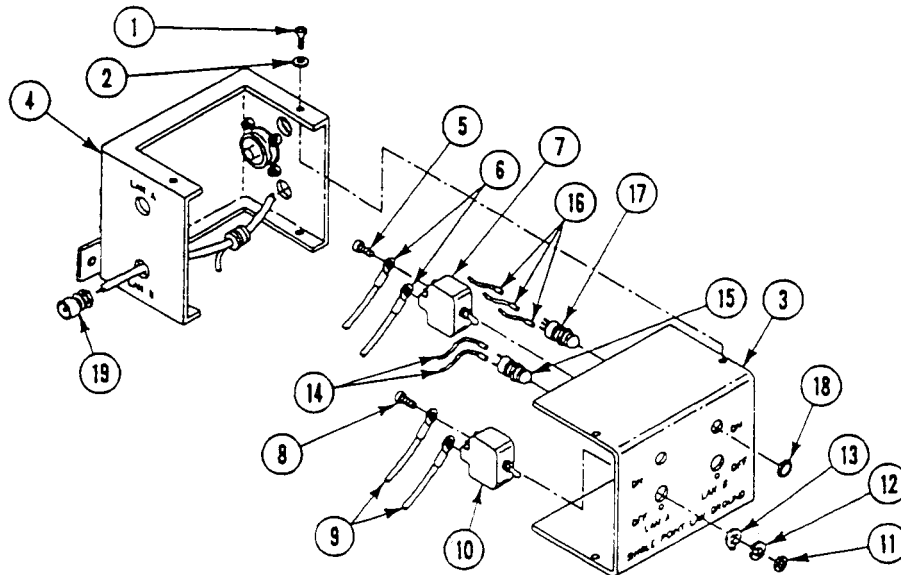
DISASSEMBLY

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

NOTE

Tag all leads before removal for proper installation later.

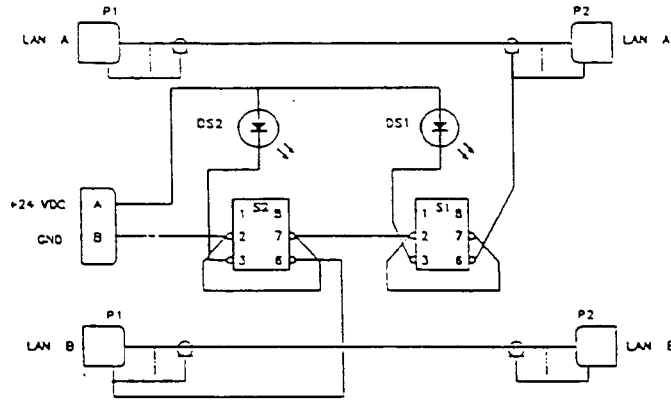
2. Remove four screws (5) and five leads (6) from switch S2 (7).
3. Remove four screws (8) and leads (9) from switch S1 (10).
4. Remove two jamnuts (11), lockwashers (12), lockring (13), and switches (7)(10) from box (3).
5. Disconnect two leads (14) from light DS1 (15).
6. Disconnect three leads (16) 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

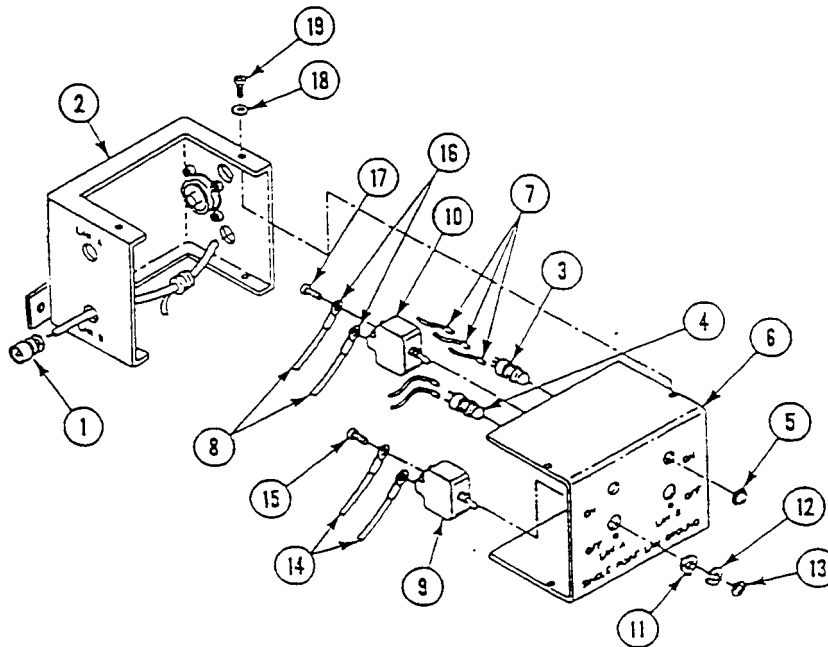
NOTE

Use wiring diagram.



WIRING DIAGRAM

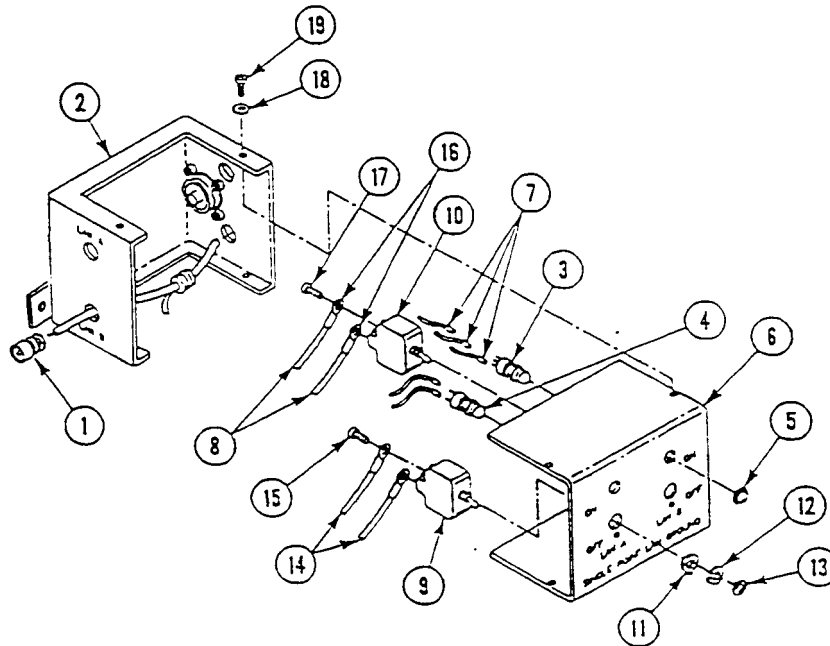
1. If any of four connectors (1) were removed from box mount (2), install as necessary.
2. Install two lights (3)(4) and nuts (5) on box (6).



REPAIR LAN GROUND BOX ASSEMBLY A15 (M1068A3 ONLY) — Continued

0821 00

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)

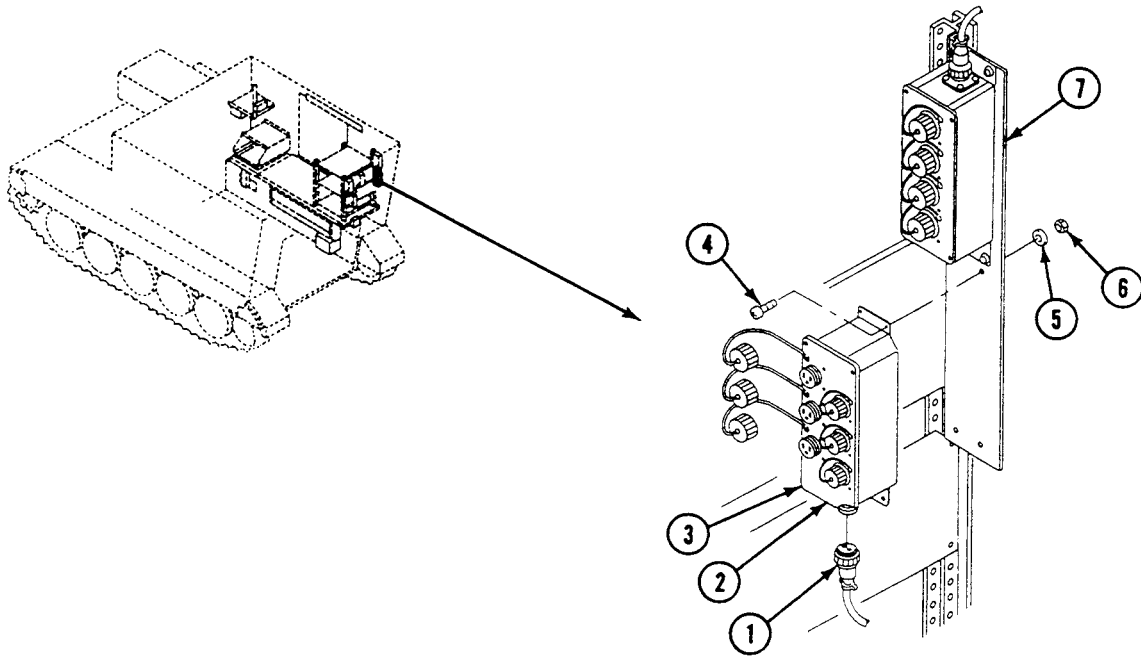
Personnel Required

Power-Generation Equipment Repairer 52D10

Battery ground lead disconnected (WP 0338 00)

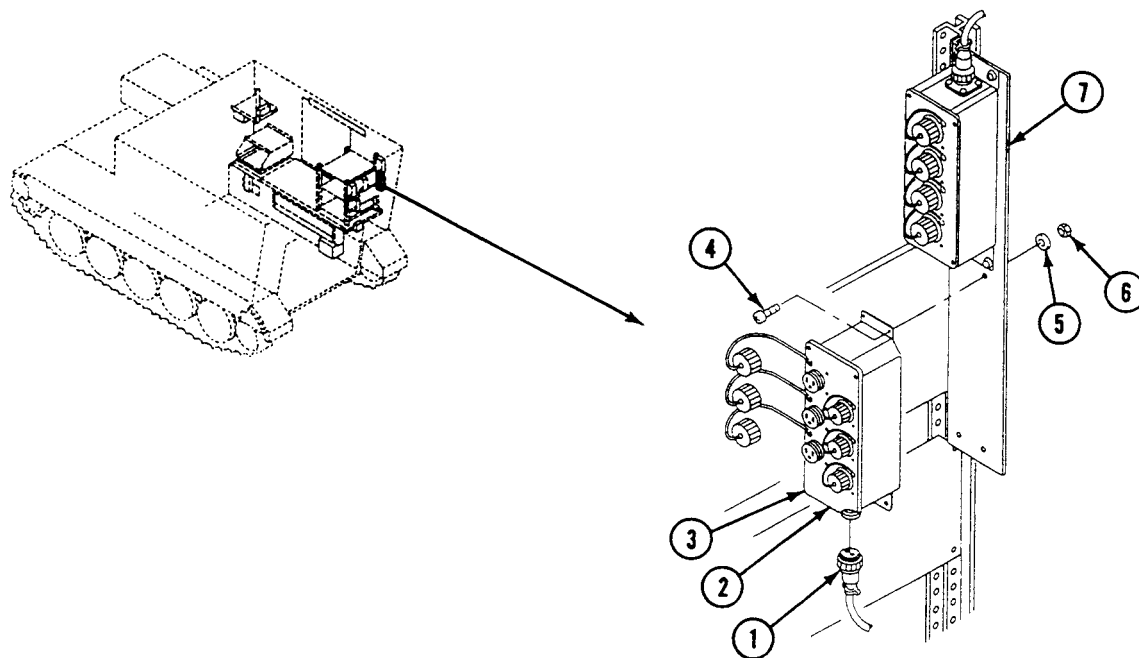
REMOVAL

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)

Equipment Condition

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

Materials/Parts

Locknut (40)
 Lockwasher (16)

Personnel Required

Unit Mechanic

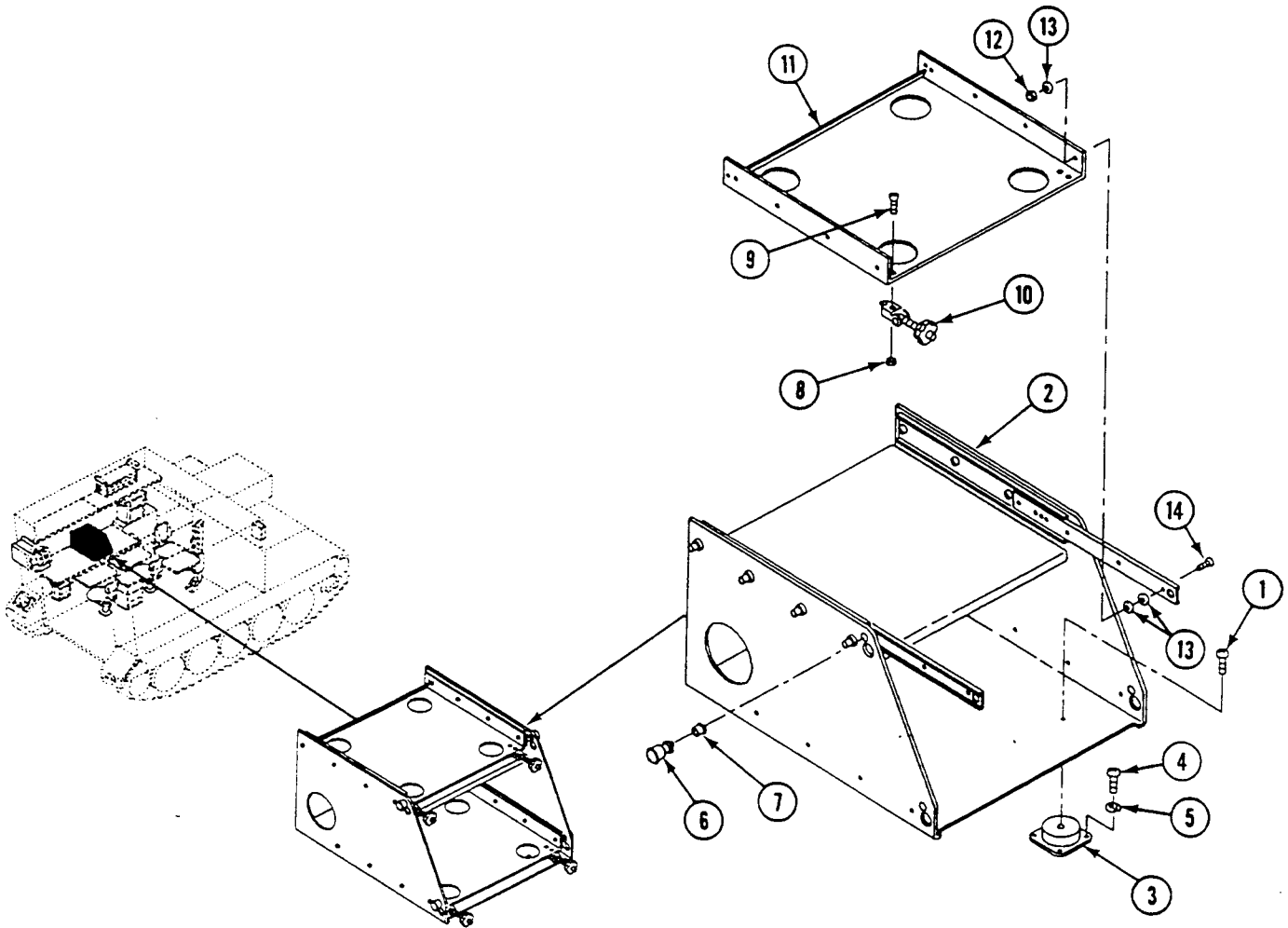
REMOVAL

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.

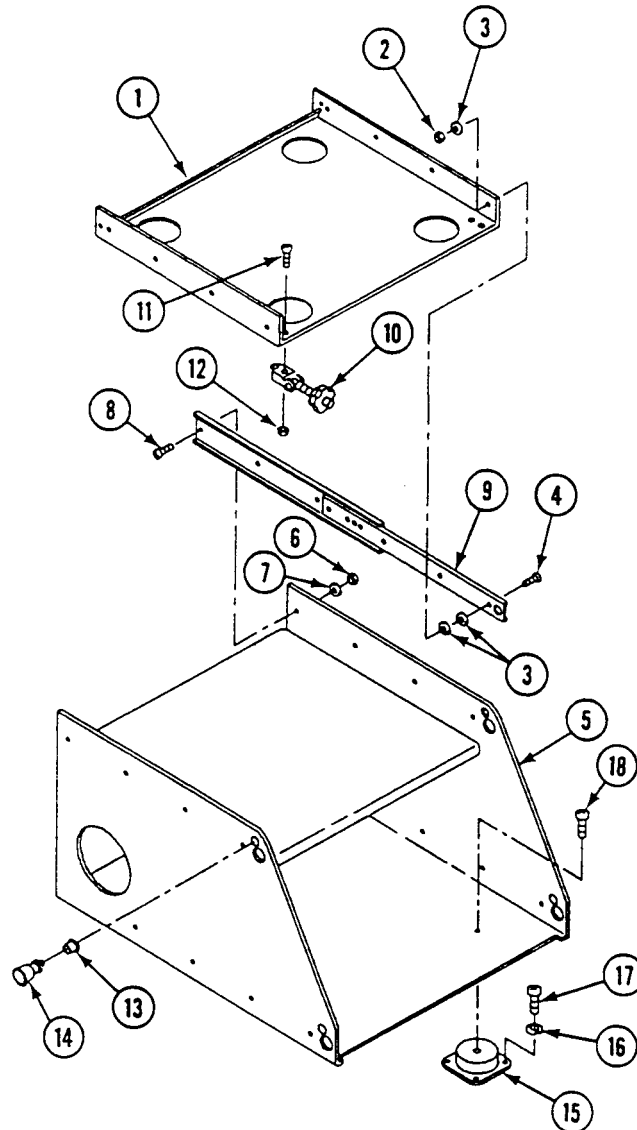
INSTALLATION

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

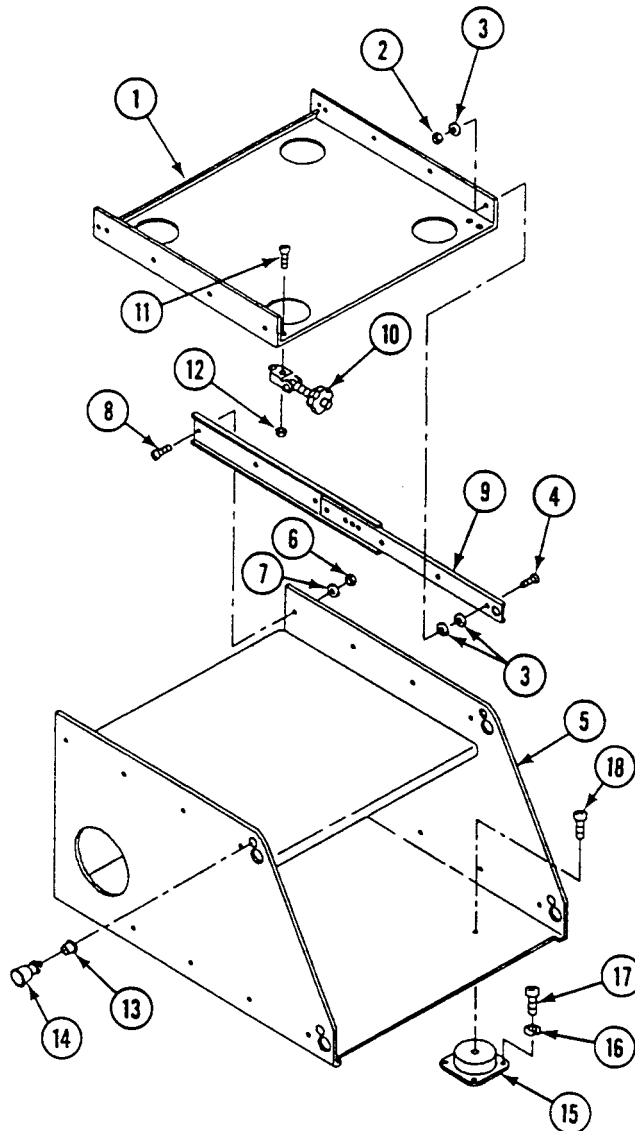
NOTE

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).



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

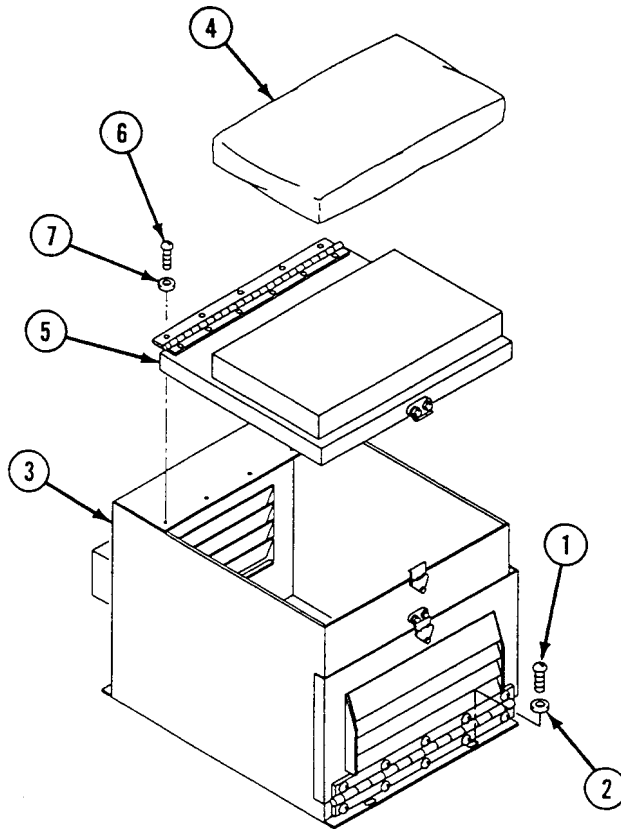
Unit Mechanic

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

0824 00

REMOVAL

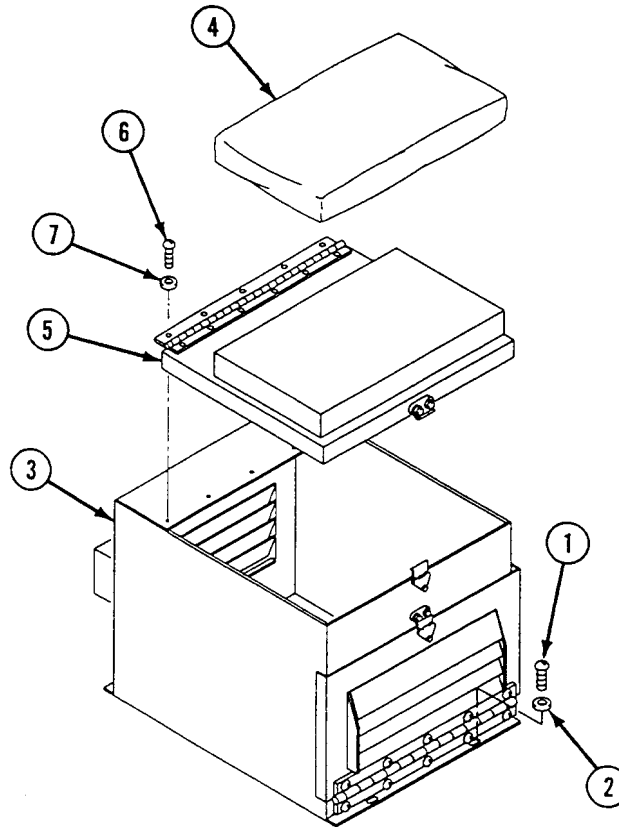
1. Remove four screws (1), washers (2), and storage box (3) from carrier.



DISASSEMBLY**NOTE**

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

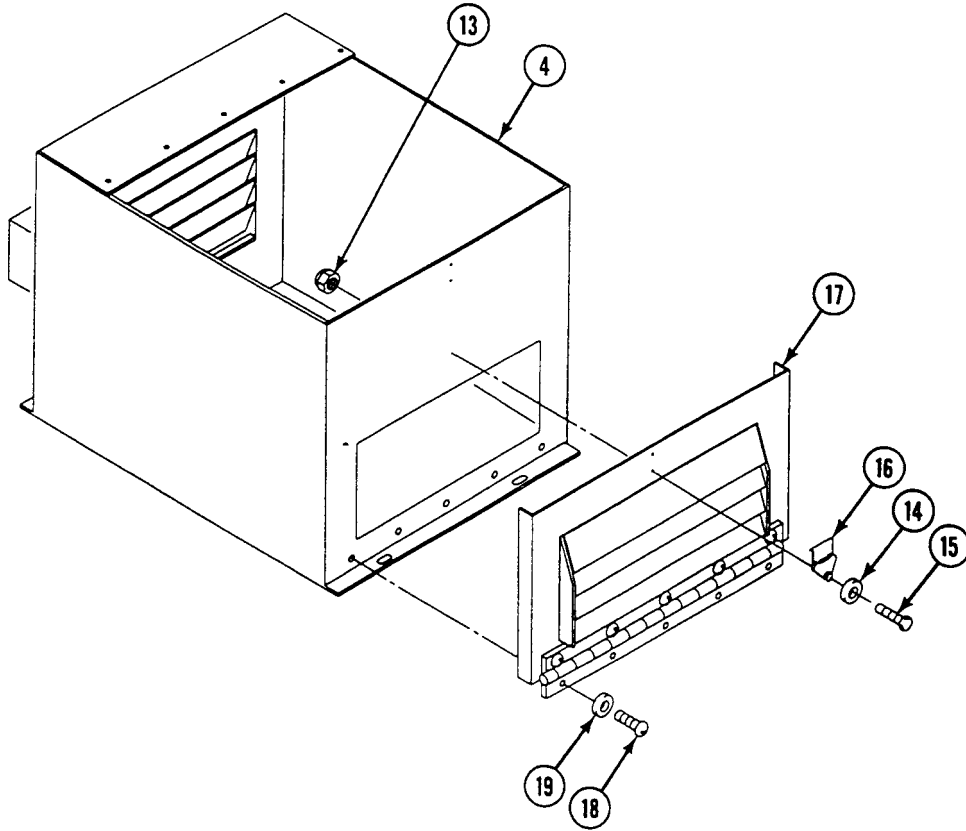
1. Remove seat cushion (4) from lid (5).
2. Remove five screws (6), lockwashers (7), and lid (5) from box (3). Discard lockwashers.



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).

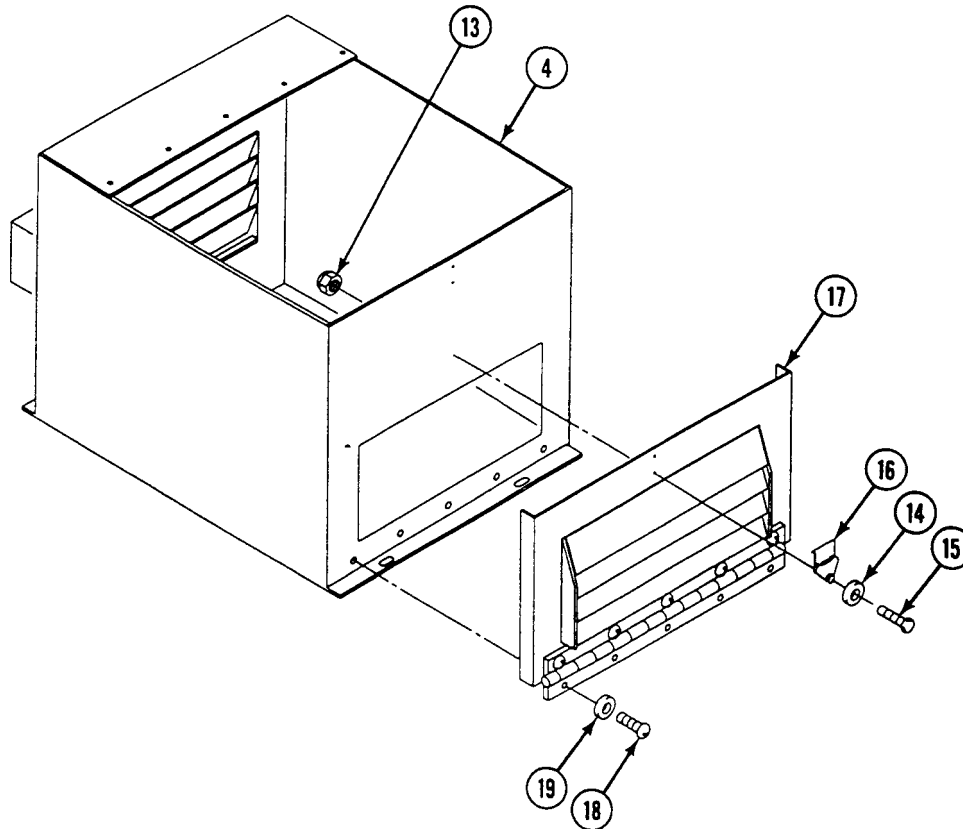


REPLACE/REPAIR POWER SUPPLY STORAGE BOX ASSEMBLY (M1068A3 ONLY) —
Continued

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).

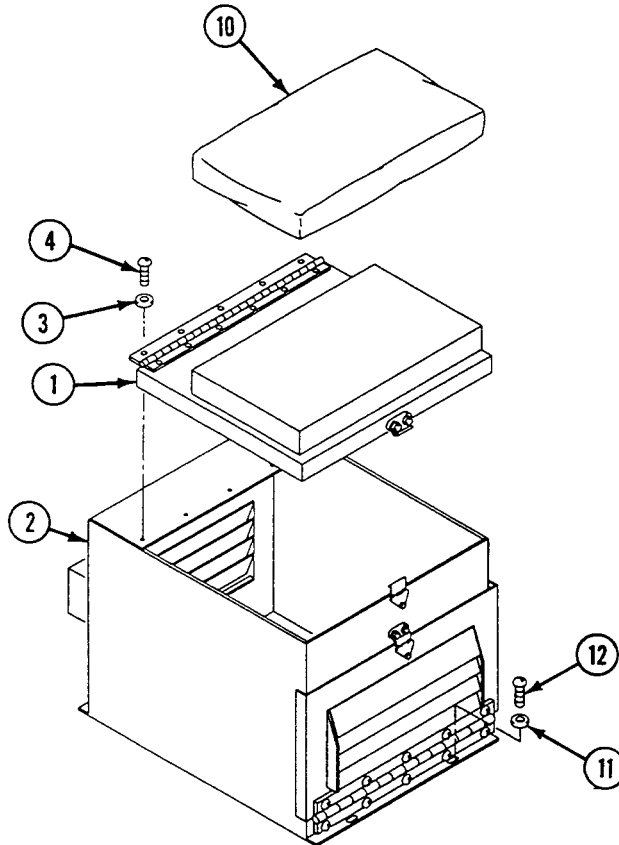


3. Install lid (1) on box (2). Secure with five washers (3) and screws (4).

NOTE

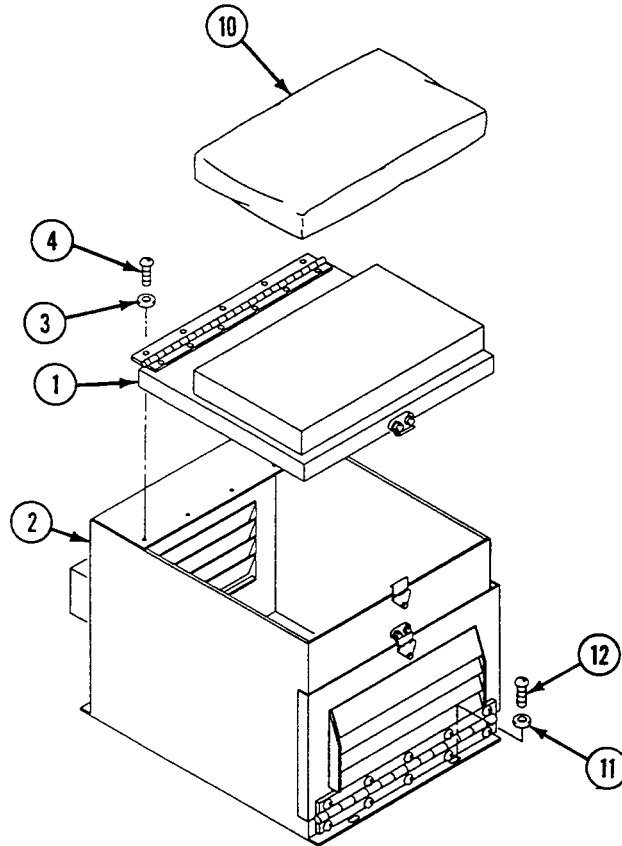
If removed, install seat cushion pad in seat cushion cover.

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



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

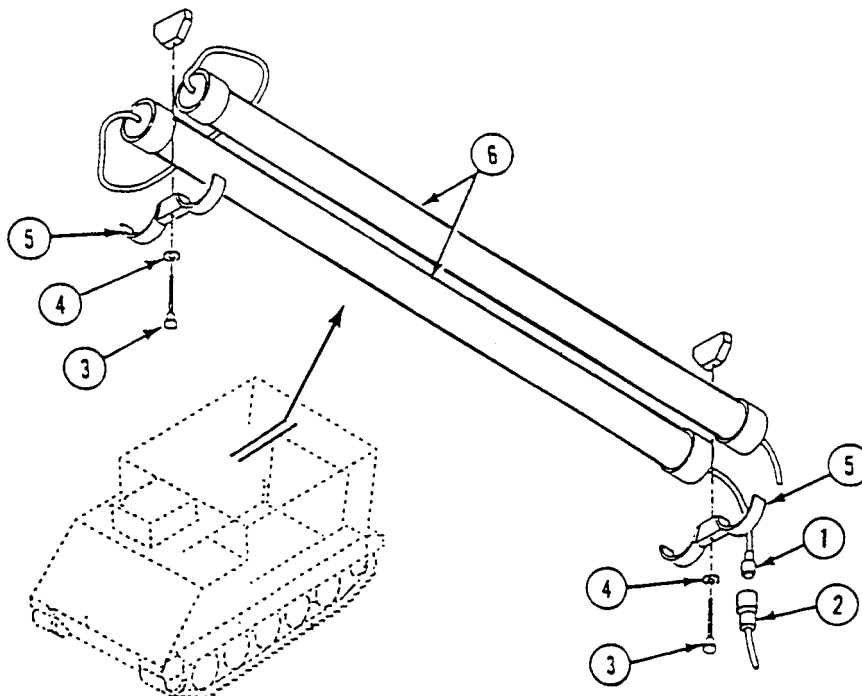
Power-Generation Equipment Repairer 52D10

REMOVAL

NOTE

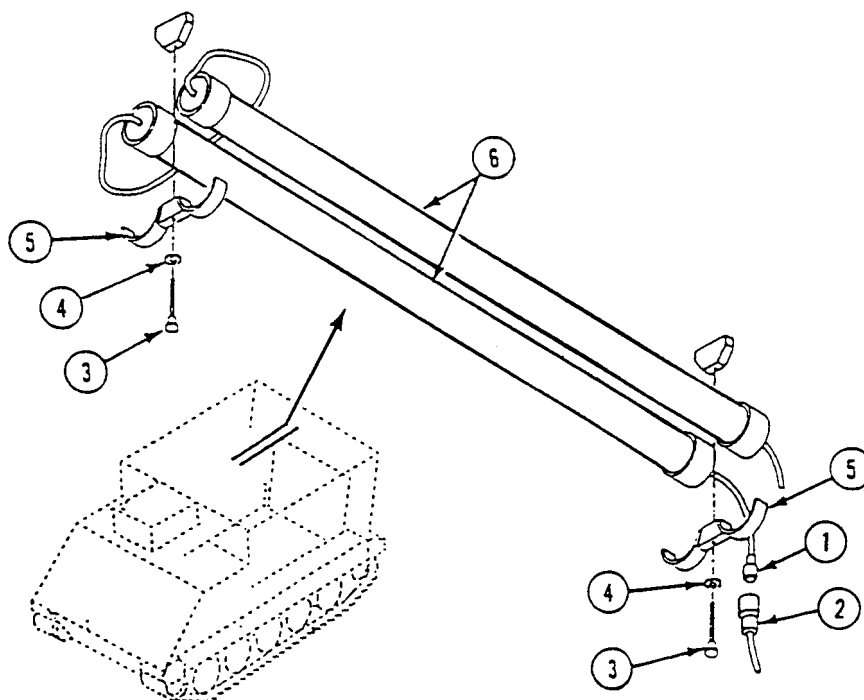
For repair of fluorescent light assemblies, see TM 10-5410-229-13&P.

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)

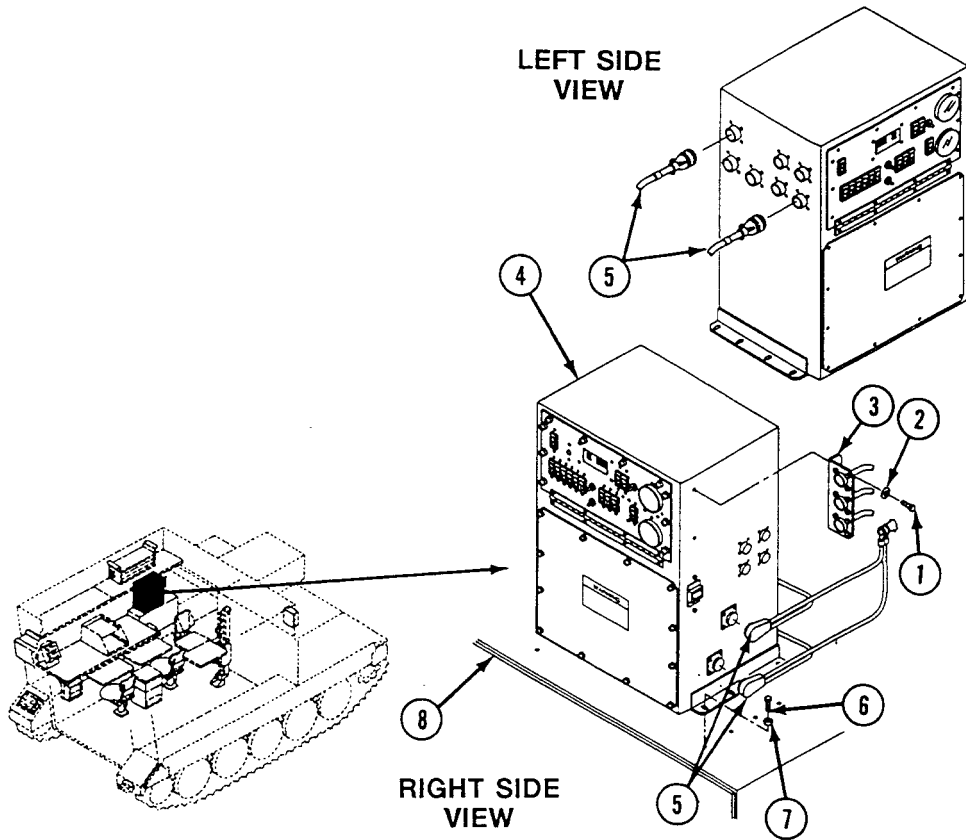
REMOVAL

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.

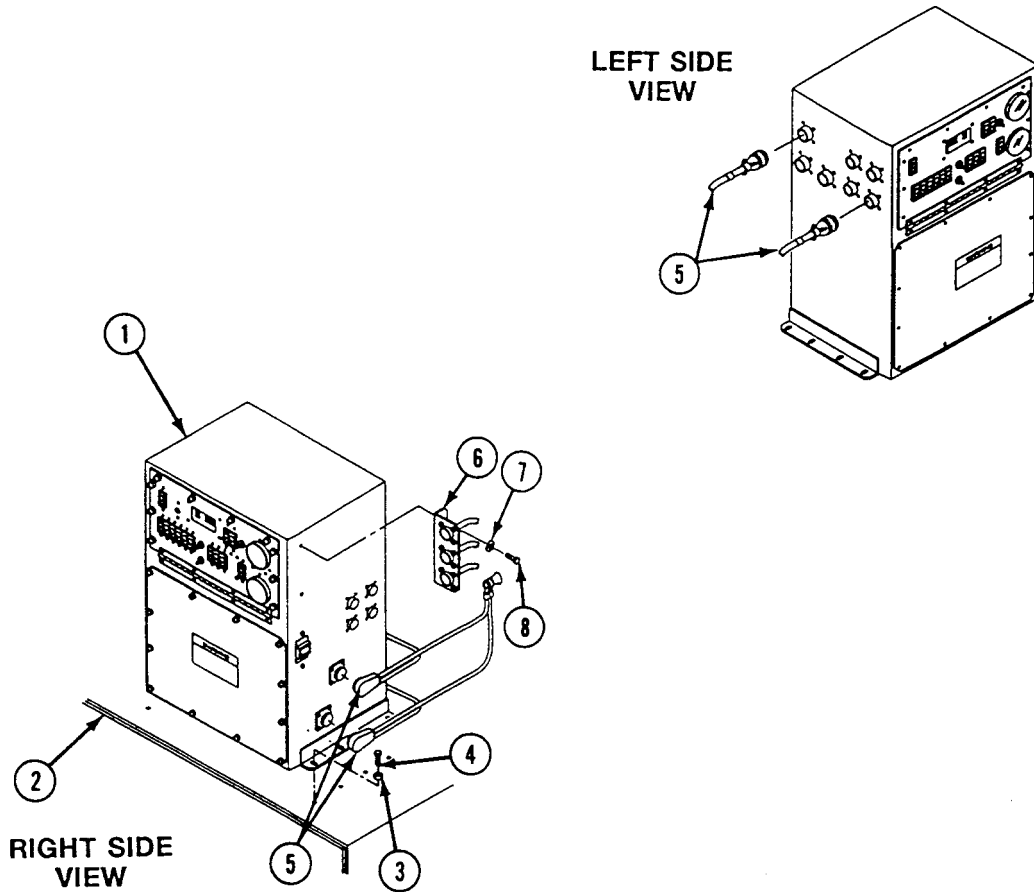


**REPLACE POWER CONTROL ENCLOSURE ASSEMBLY A1 (M1068A3 ONLY) —
Continued**

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

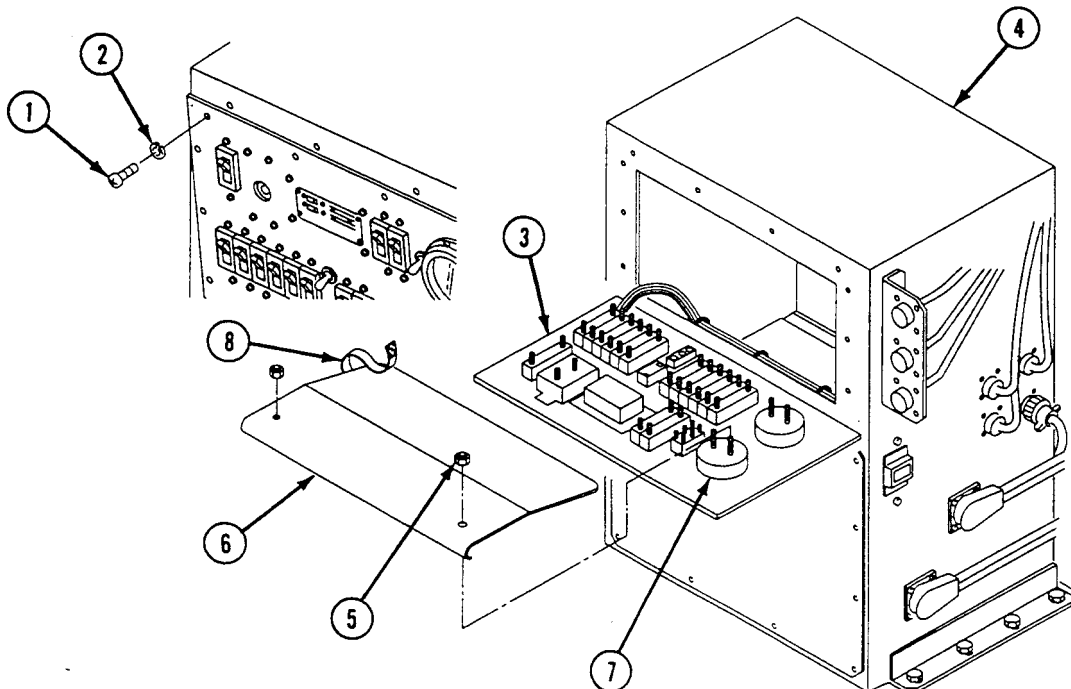
Primer (WP 0928 00, Item 45)
 Sealing Compound (WP 0928 00, Item 48)
 Locknut (6)
 Lockwasher (10)

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.



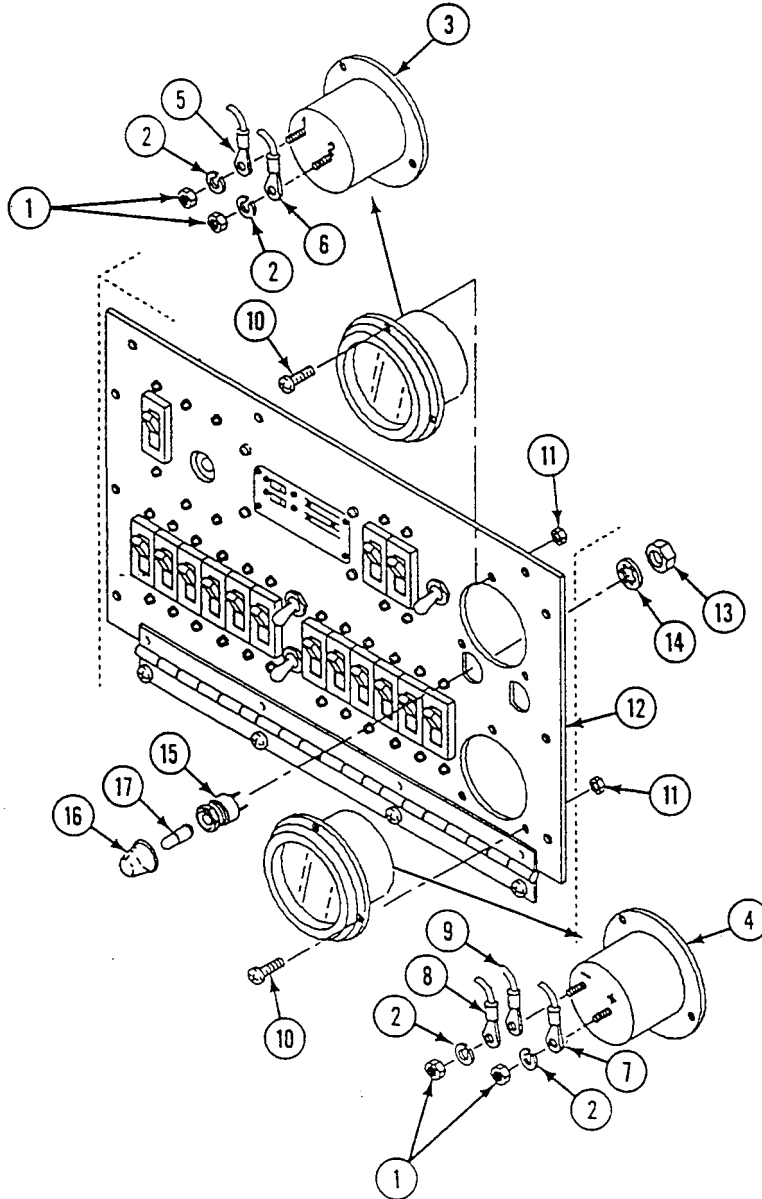
REPLACE POWER CONTROL ENCLOSURE AC AND DC METERS AND LIGHT INDICATORS (M1068A3 ONLY) — Continued

0827 00

NOTE

Tag all leads before removing them.

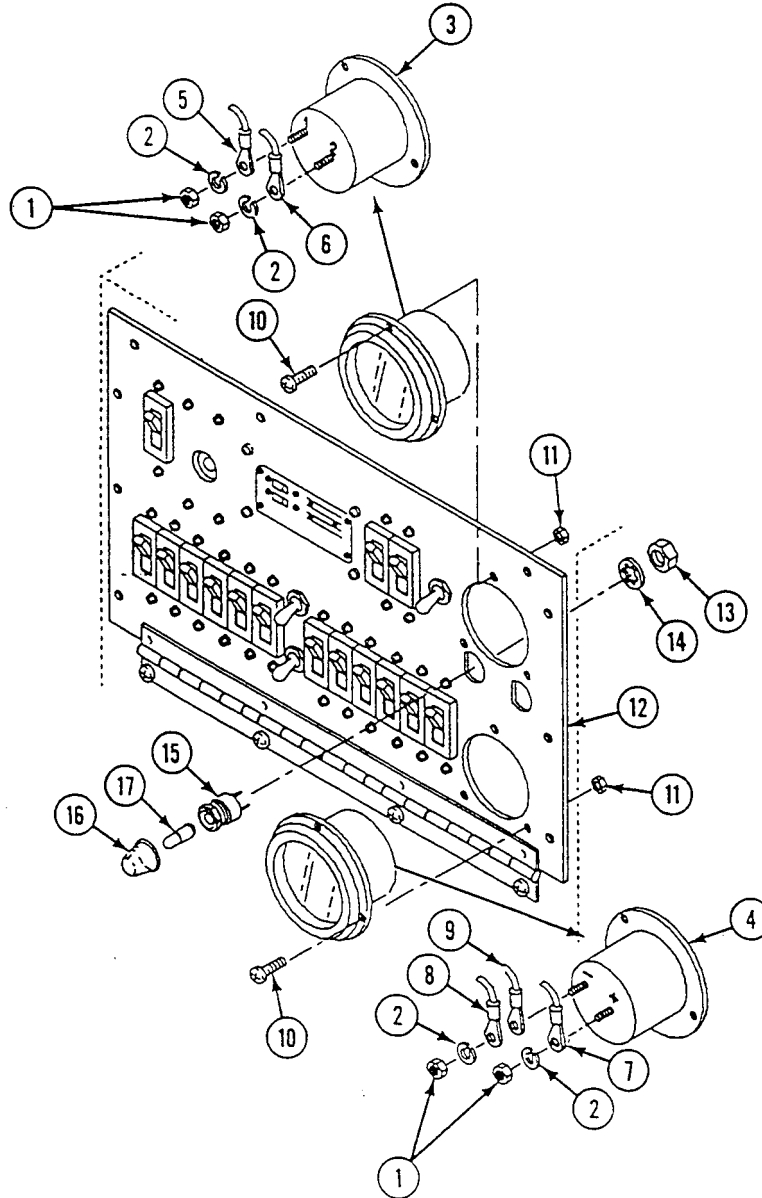
3. Remove two nuts (1) and washers (2) from meter M1 (3).
4. Remove two nuts (1) and washers (2) from meter M2 (4).
5. Remove circuits 29A lead (5) and 30A lead (6) from meter M1 (3).



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).

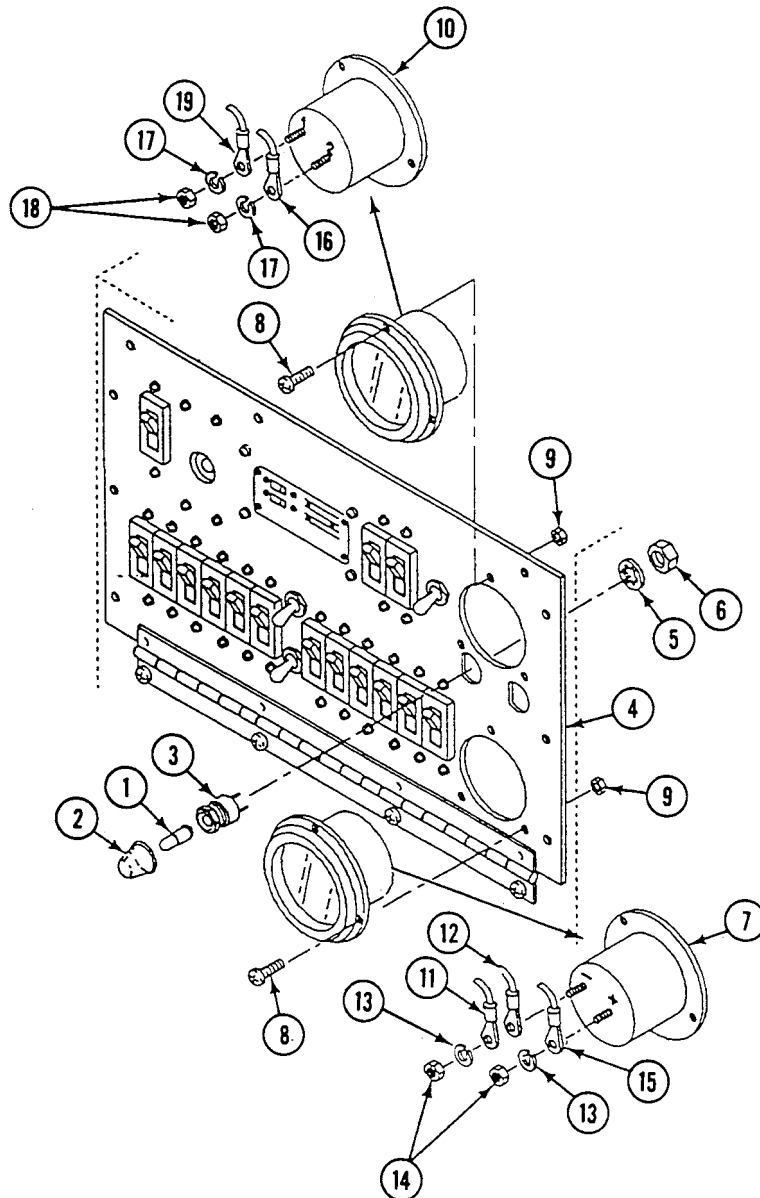


REPLACE POWER CONTROL ENCLOSURE AC AND DC METERS AND LIGHT INDICATORS (M1068A3 ONLY) — Continued

0827 00

INSTALLATION

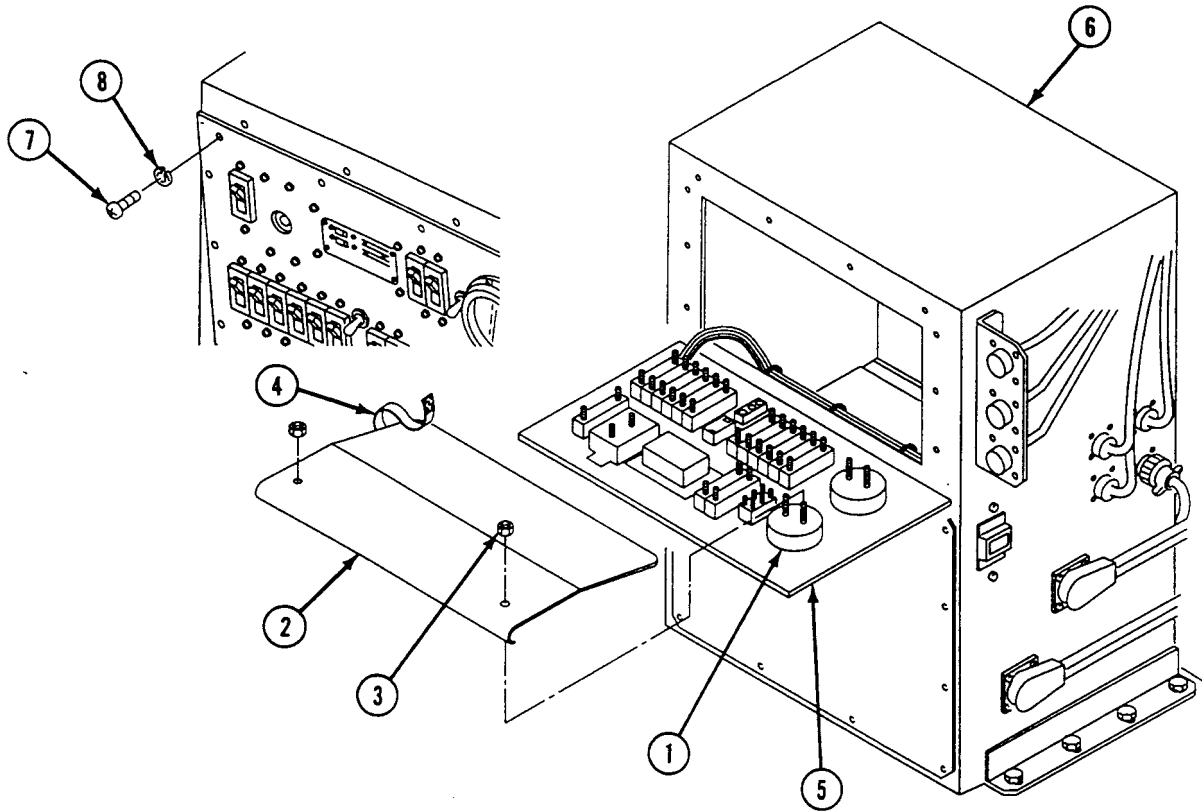
1. If bulb (1) or lens (2) were removed, install on indicator light (3).
2. Install two indicator lights (3) on faceplate (4). Secure with lockwashers (5) and jamnuts (6).
3. Install meter M2 (7) on faceplate (4). Secure with three screws (8) and new locknuts (9).
4. Install meter M1 (10) on faceplate (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 00-8).

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

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

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 (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)

DISASSEMBLY

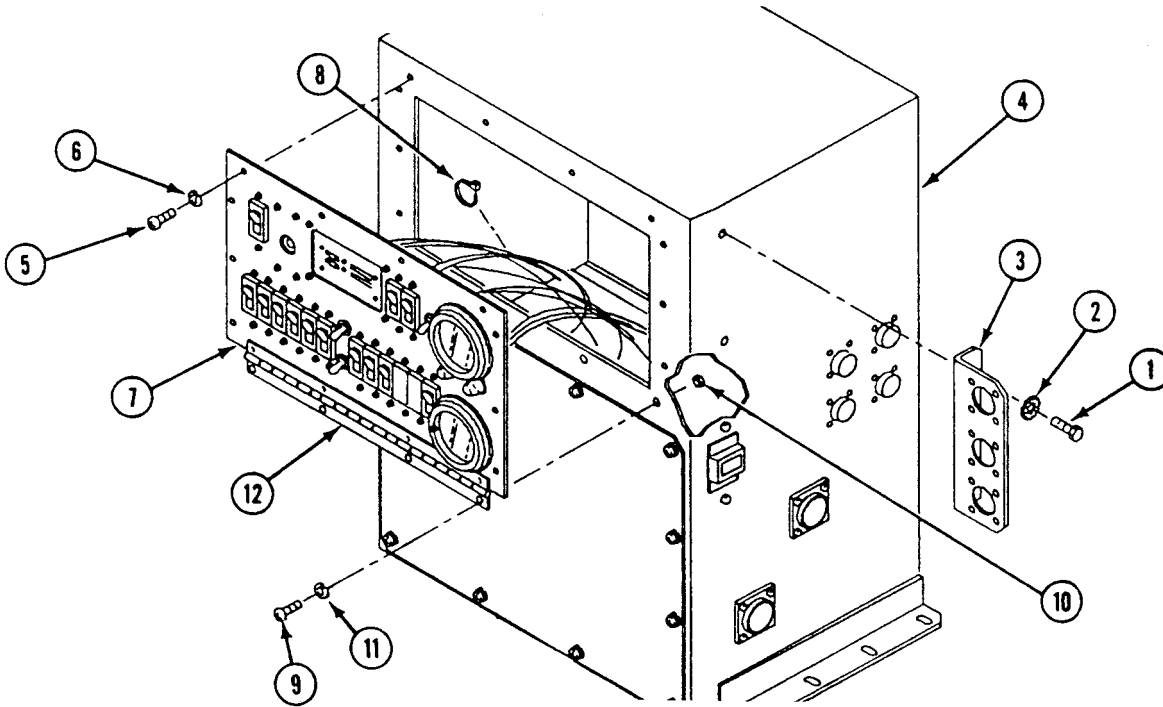
1. Remove two screws (1), lockwashers (2), and bracket (3) from enclosure (4). Discard lockwashers.

REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET (M1068A3 ONLY)

0828 00

— Continued

2. Remove ten screws (5), lockwashers (6), and faceplate assembly (7) from enclosure (4). Lower faceplate (7). Discard lockwashers.
3. Remove straps (8) from leads as required. Discard straps.
4. Remove four screws (9), locknuts (10), and washers (11) from faceplate hinge (12). Discard locknuts.



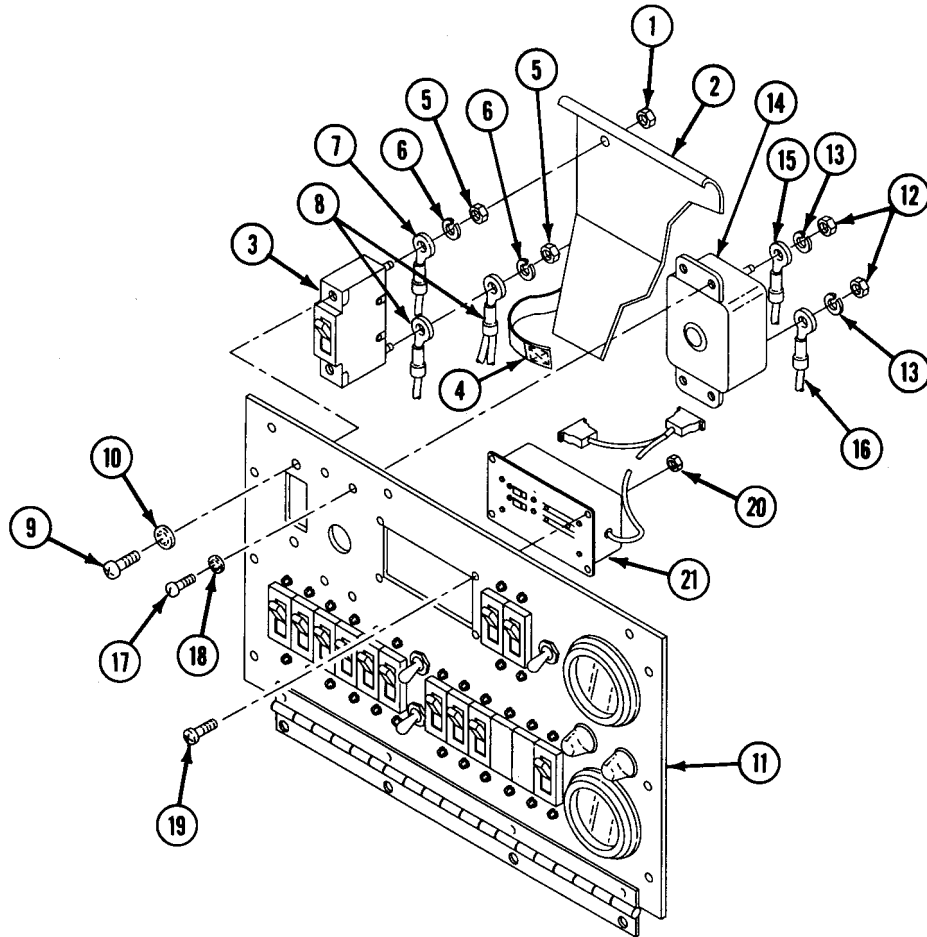
— Continued

NOTE

Tag all leads before removal.

There are 12 circuit breakers alike. All circuit breakers are removed in the same way. The artwork shows the removal of only one circuit breaker. Use wiring diagram in the back of the manual.

5. Remove nut (1) and safety cover (2) from terminal 1 of circuit breaker CB1 (3). Unwrap velcro strap (4) from around local wiring.
6. Remove two nuts (5) and lockwashers (6) from circuit breaker CB1 (3).
7. Remove circuit 7A lead (7) from terminal 1 of circuit breaker CB1 (3).
8. Remove circuits 9A, 9E, and 9D leads (8) from terminal 2 of circuit breaker CB1 (3).
9. Remove two screws (9), lockwashers (10), and circuit breaker CB1 (3) from faceplate (11). Discard lockwashers.
10. Remove two nuts (12) and lockwashers (13) from circuit breaker CB2 (14).

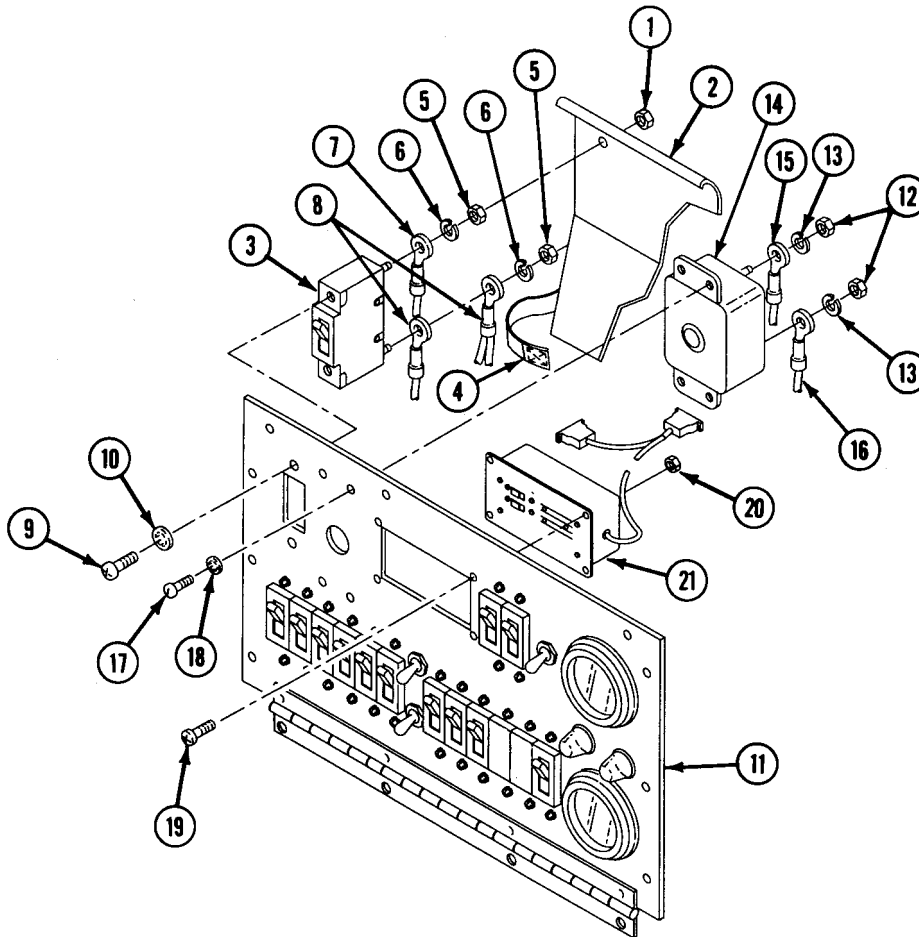


REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET (M1068A3 ONLY)

0828 00

— Continued

11. Remove circuit 31B lead (15) from terminal 1 of circuit breaker CB2 (14).
12. Remove circuit 36C lead (16) from terminal 2 of circuit breaker CB2 (14).
13. Remove four screws (17), lockwashers (18), and circuit breaker CB2 (14) from faceplate (11). Discard lockwashers.
14. Remove four screws (19), locknuts (20), and cascade remote harness RP1 (21) from faceplate (11) and two inverters. Discard locknuts.

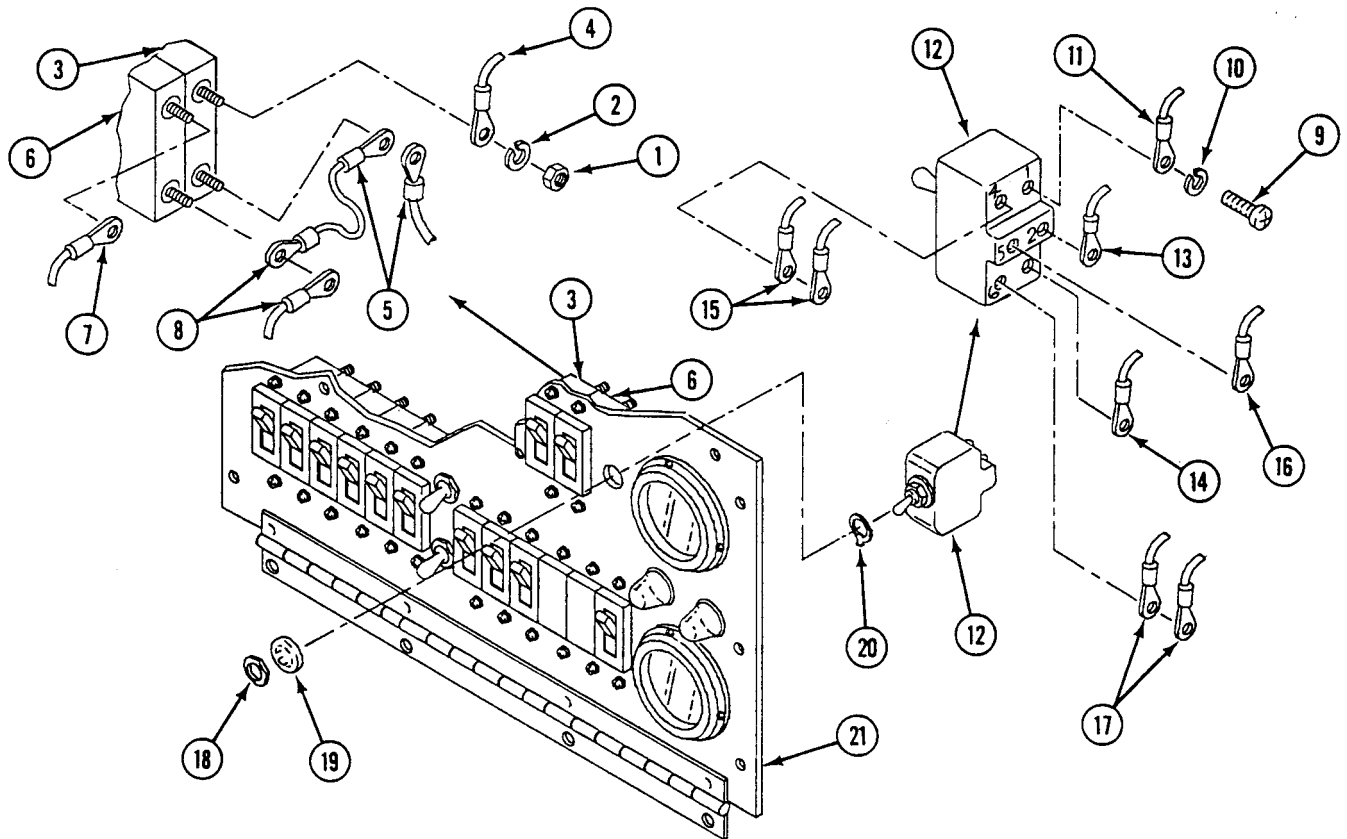


— Continued

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.

15. Remove two nuts (1) and lockwashers (2) from circuit breaker CB3 (3).
16. Remove circuit 11A lead (4) from terminal 1 of circuit breaker CB3 (3).
17. Remove circuits 13A and 13B leads (5) from terminal 2 of circuit breaker CB3 (3).
18. Remove two nuts (1) and lockwashers (2) from circuit breaker CB4 (6).
19. Remove circuit 12A lead (7) from terminal 1 of circuit breaker CB4 (6).
20. Remove circuits 13B and 13C leads (8) from CB4 (6).

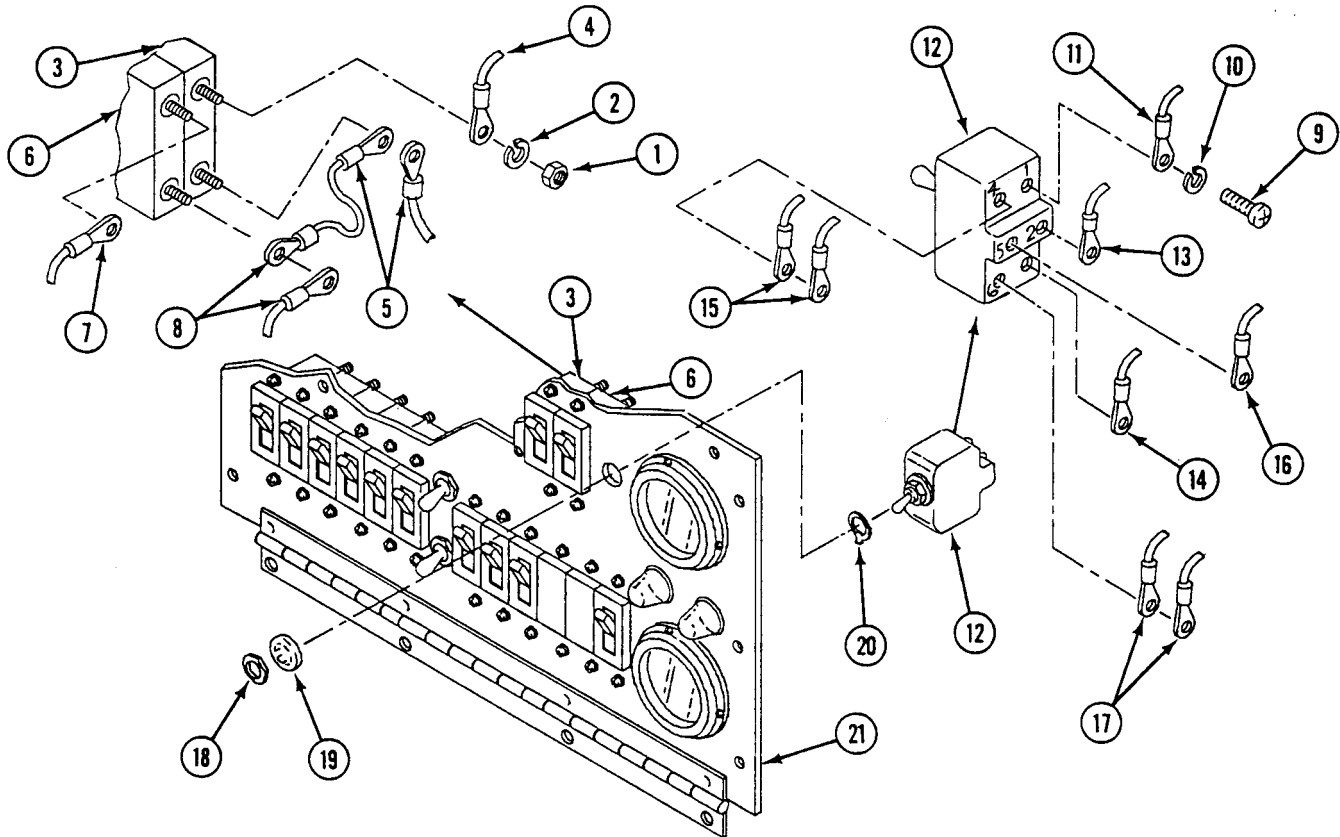


— Continued

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.

21. Remove screw (9), lockwasher (10), and circuit 9E lead (11) from terminal 1 of toggle switch S2 (12).
22. Remove screw (9), lockwasher (10), and circuit 30A lead (13) from terminal 2 of toggle switch S2 (12).
23. Remove screw (9), lockwasher (10), and circuit 13C lead (14) from terminal 3 of toggle switch S2 (12).
24. Remove screw (9), lockwasher (10), and circuit 8D and 8F leads (15) from terminal 4 of toggle switch S2 (12).
25. Remove screw (9), lockwasher (10), and circuit 29A lead (16) from terminal 5 of toggle switch S2 (12).
26. Remove screw (9), lockwasher (10), and circuit 28C and 28F leads (17) from terminal 6 of toggle switch S2 (12).
27. Remove nut (18), lockwasher (19), locking ring (20), and toggle switch S2 (12) from faceplate (21).

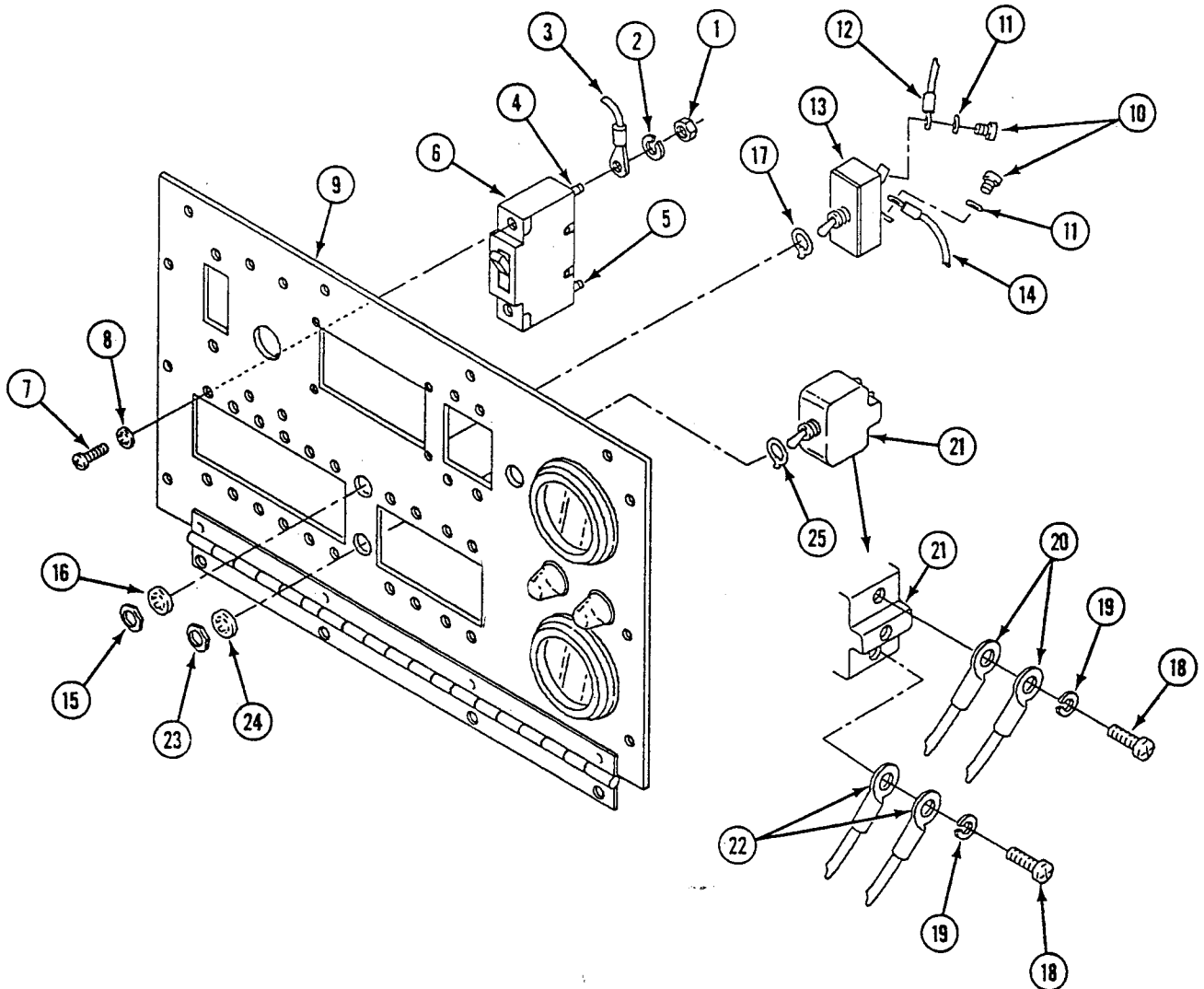


REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET (M1068A3 ONLY)

0828 00

— Continued

28. Remove two nuts (1) and lockwashers (2) and circuit lead(s) (3) from terminal 1 (4) and terminal 2 (5) of circuit breaker (6).
29. Remove circuit breaker (6) by removing two screws (7) and lockwashers (8) from faceplate (9). Discard lockwashers.
30. Remove screw (10), lockwasher (11), and circuit 19A lead (12) from terminal 2 of circuit breaker CB17 (13).
31. Remove screw (10), lockwasher (11), and circuit 17C lead (14) from terminal 1 of circuit breaker CB17 (13).
32. Remove nut (15), lockwasher (16), locking ring (17), and circuit breaker CB17 (13) from faceplate (9).
33. Remove screw (18), lockwasher (19), and circuits 19A and 19B leads (20) from terminal 2 of toggle switch S1 (21).
34. Remove screw (18), lockwasher (19), and circuits 20A and 20B leads (22) from terminal 3 of toggle switch S1 (21).
35. Remove nut (23), lockwasher (24), locking ring (25), and toggle switch S1 (21) from faceplate (9).



— Continued

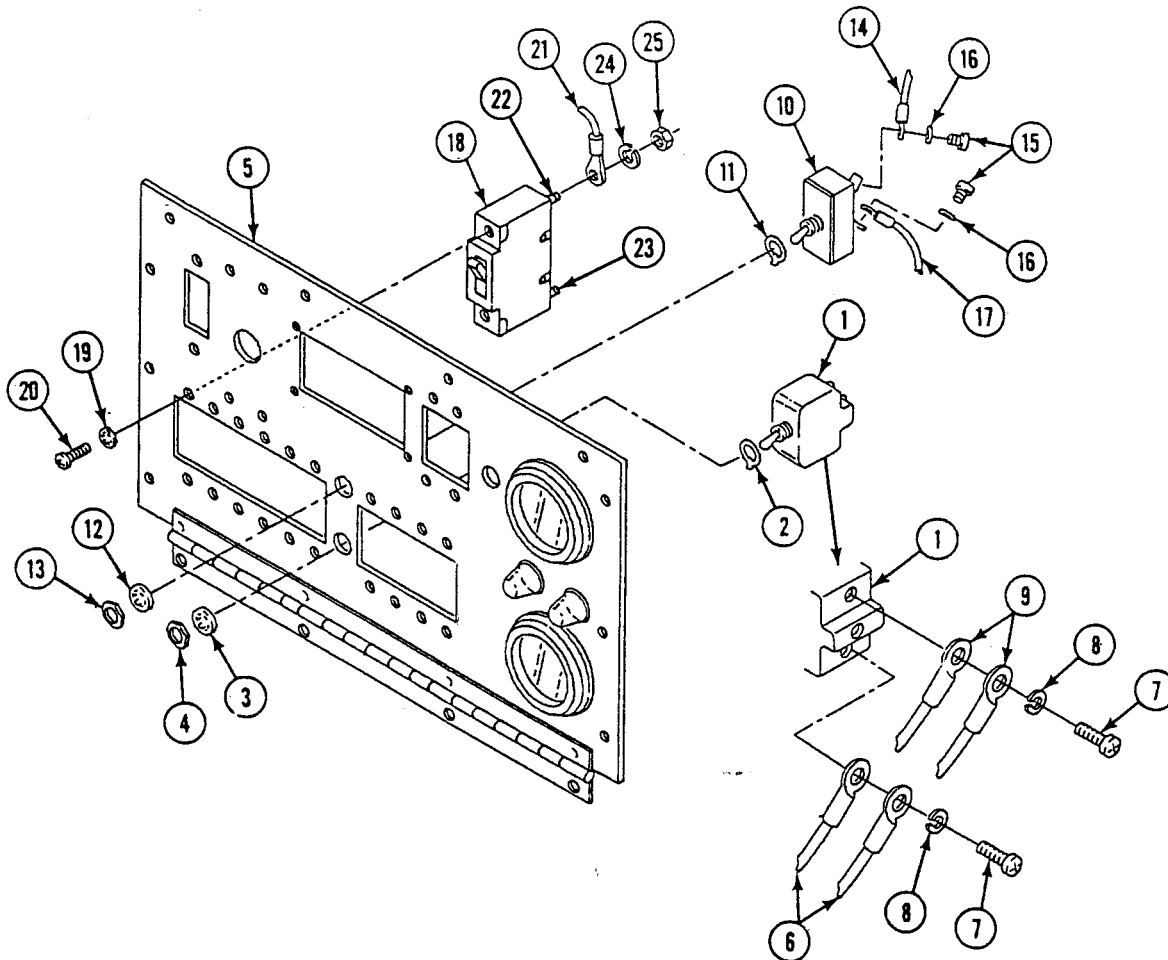
ASSEMBLY

1. Install toggle switch S1 (1), locking ring (2), lockwasher (3), and nut (4) on faceplate (5).
2. Install circuits 20A and 20B leads (6), screw (7), and lockwasher (8) on terminal 3 of toggle switch S1 (1).
3. Install circuits 19A and 19B leads (9), screw (7), and lockwasher (8) on terminal 2 of toggle switch S1 (1).

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 (10), locking ring (11), lockwasher (12), and nut (13) on faceplate (5).
5. Install circuit 19A lead (14), screw (15), and lockwasher (16) on terminal 2 of circuit breaker CB17 (10).
6. Install circuit 17C lead (17), screw (15), and lockwasher (16) on terminal 1 of circuit breaker CB17 (10).
7. Install circuit breaker (18) on faceplate (5). Secure with two new lockwashers (19) and screws (20).
8. Install circuit lead(s) (21) to terminal 1 (22) and terminal 2 (23) with two lockwashers (24) and nuts (25).



— Continued

NOTE

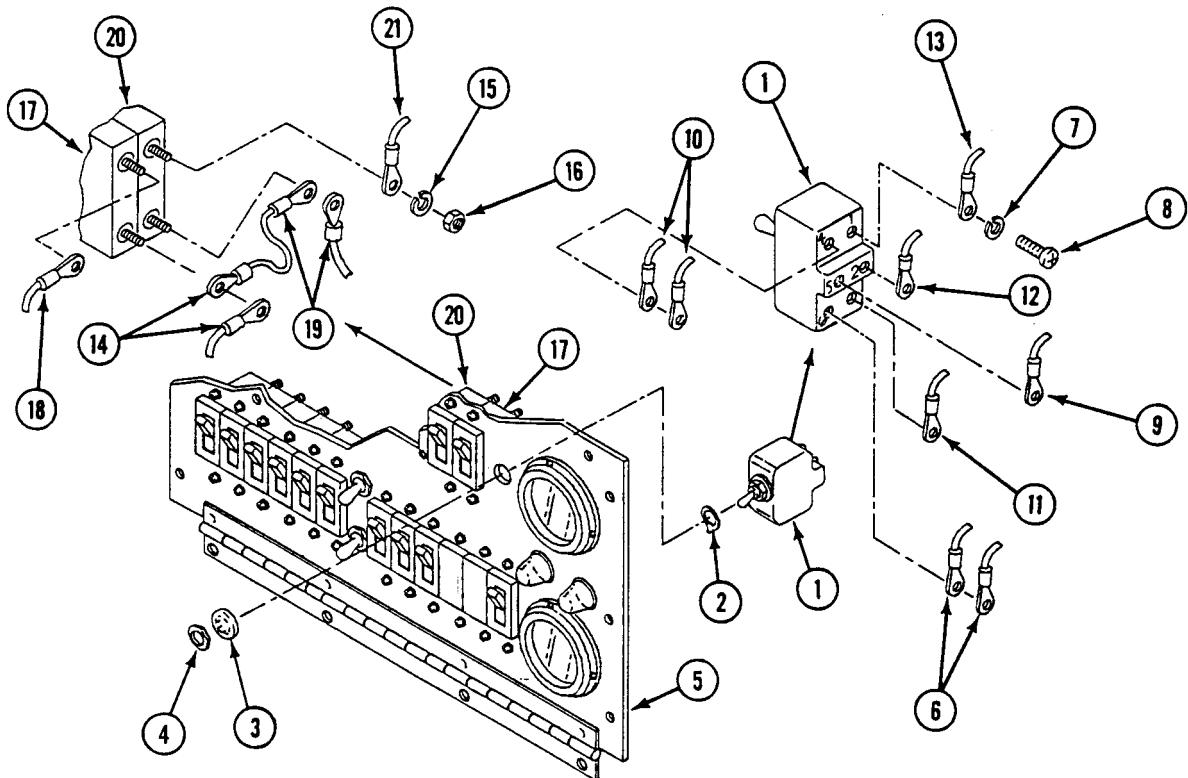
All S2 leads are secured with a washer and a screw. The art work shows the installation of only one washer and one screw.

9. Install toggle switch S2 (1), locking ring (2), lockwasher (3), and nut (4) on faceplate (5).
10. Install circuits 28C and 28F leads (6), lockwasher (7), and screw (8) on terminal 6 of toggle switch S2 (1).
11. Install circuit 29A lead (9), lockwasher (7), and screw (8) on terminal 5 of toggle switch S2 (1).
12. Install circuits 8D and 8F leads (10), lockwasher (7), and screw (8) on terminal 4 of toggle switch S2 (1).
13. Install circuit 13C lead (11), lockwasher (7), and screw (8) on terminal 3 of toggle switch S2 (1).
14. Install circuit 30A lead (12), lockwasher (7), and screw (8) on terminal 2 of toggle switch S2 (1).
15. Install circuit 9E lead (13), lockwasher (7), and screw (8) on terminal 1 of toggle switch S2 (1).

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 circuits 13B and 13C leads (14), lockwasher (15), and nut (16) on terminal 2 of circuit breaker CB4 (17).
17. Install circuit 12A lead (18), lockwasher (15), and nut (16) on terminal 1 of circuit breaker CB4 (17).
18. Install circuits 13B and 13A leads (19), lockwasher (15), and nut (16) on terminal 2 of circuit breaker CB3 (20).
19. Install circuit 11A lead (21), lockwasher (15), and nut (16) on terminal 1 of circuit breaker CB3 (20).

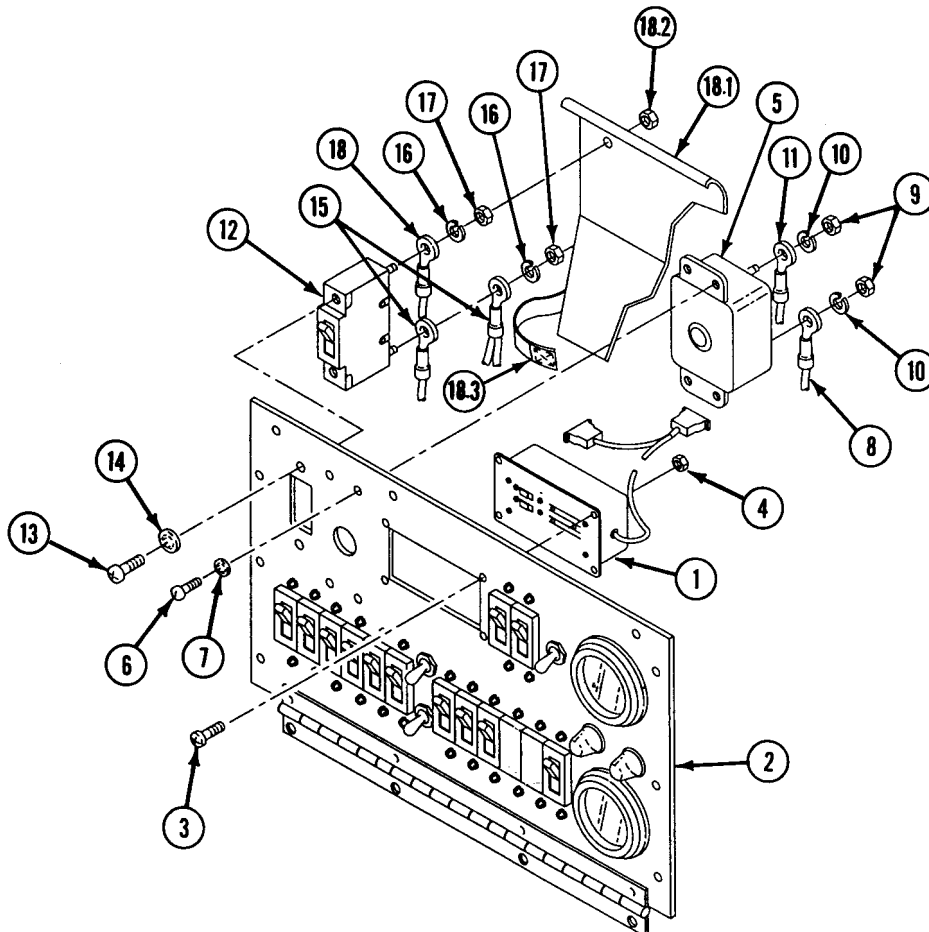


REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET (M1068A3 ONLY)

0828 00

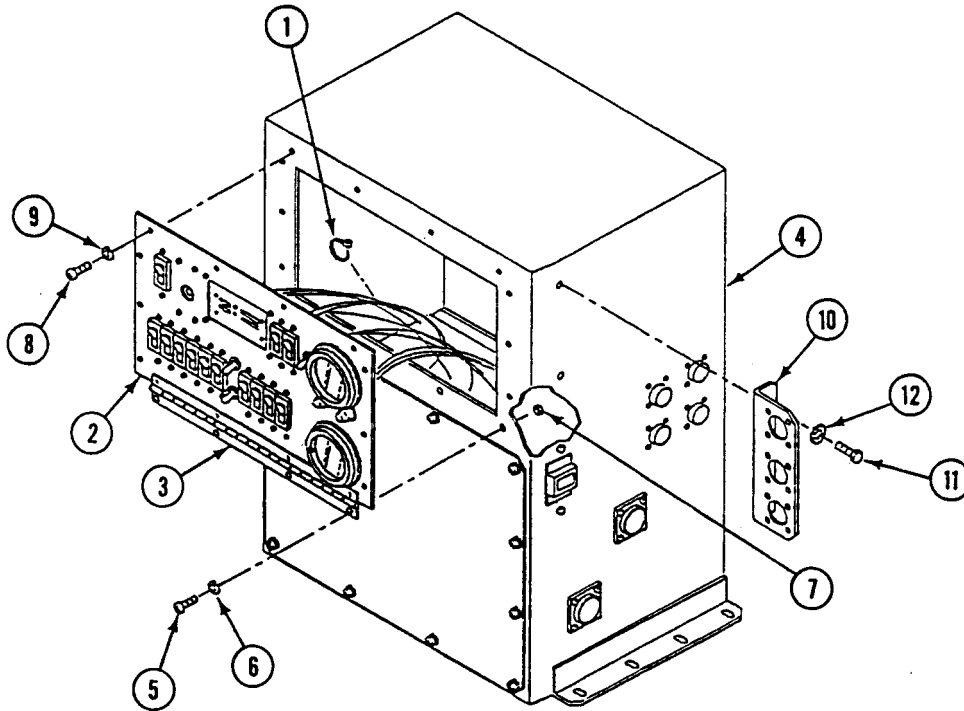
— Continued

20. Install cascade remote harness RP1 (1) on faceplate (2) and two inverters. Secure with four screws (3) and new locknuts (4).
21. Install circuit breaker CB2 (5), four screws (6), and new lockwashers (7) on faceplate (2).
22. Install circuit 36C lead (8), nut (9), lockwasher (10) on terminal 2 of circuit breaker CB2 (5).
23. Install circuit 31B lead (11), lockwasher (10), and nut (9) on terminal 1 of circuit breaker CB2 (5).
24. Install circuit breaker CB1 (12), two screws (13), and new lockwashers (14) on faceplate (2).
25. Install circuits 9A, 9E, and 9D leads (15), lockwasher (16), and nut (17) on terminal 2 of circuit breaker CB1 (12).
26. Install circuit 7A lead (18), lockwasher (16), and nut (17) on terminal 1 of circuit breaker CB1 (12).
27. Apply primer and sealing compound to threads of terminal 1 of circuit breaker CB1 (12).
28. Install safety cover (19) and nut (20) on terminal 2 of circuit breaker CB1 (12). Wrap velcro strap (21) around local wiring.



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

29. Install new straps (1) on leads as required.
30. Lift faceplate assembly (2) into place. Secure faceplate hinge (3) to enclosure (4) with four screws (5), washers (6), and new locknuts (7).
31. Close faceplate assembly (2). Secure to enclosure (4) with ten screws (8) and new lockwashers (9).
32. Install bracket (10) on enclosure (4). Secure with two screws (11) and new lockwashers (12).

**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

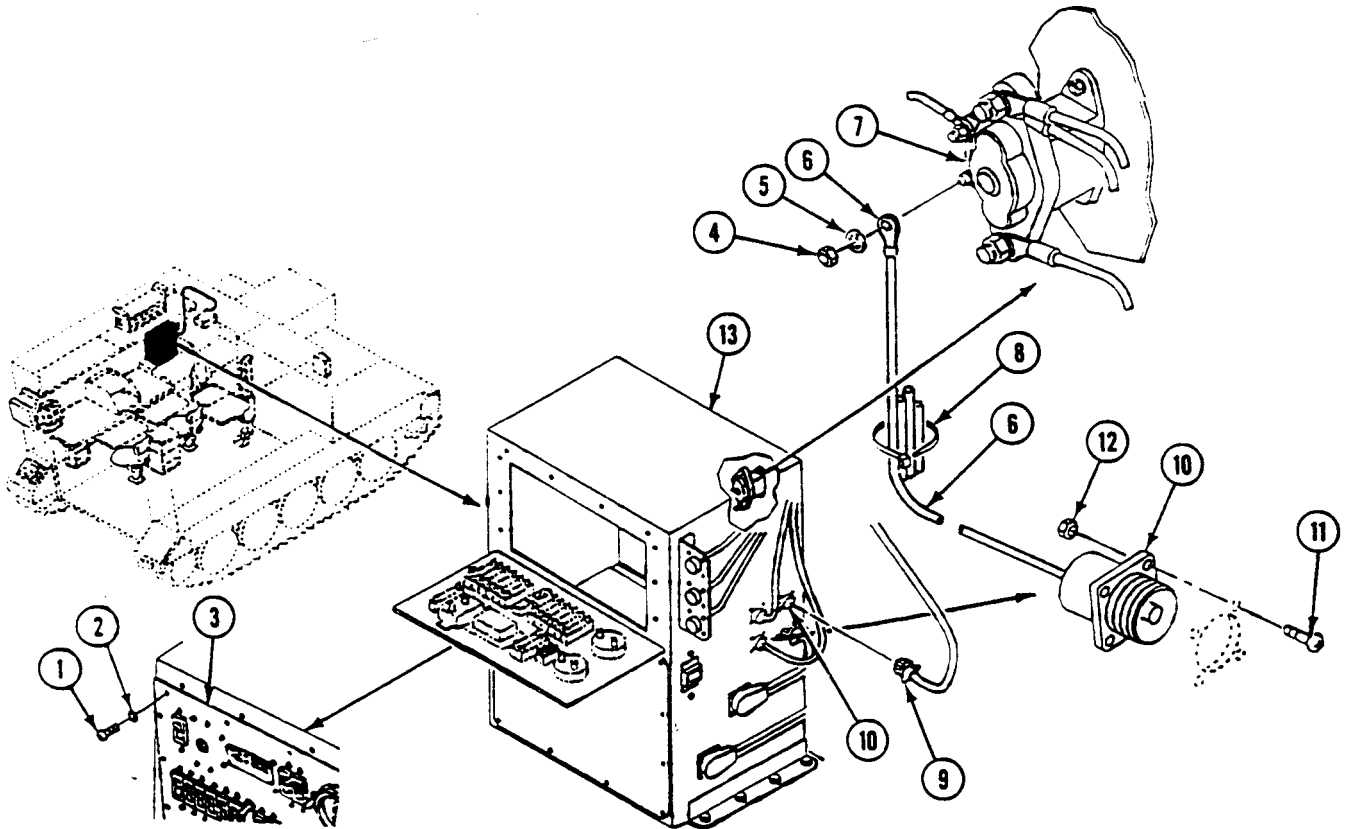
REMOVAL

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.

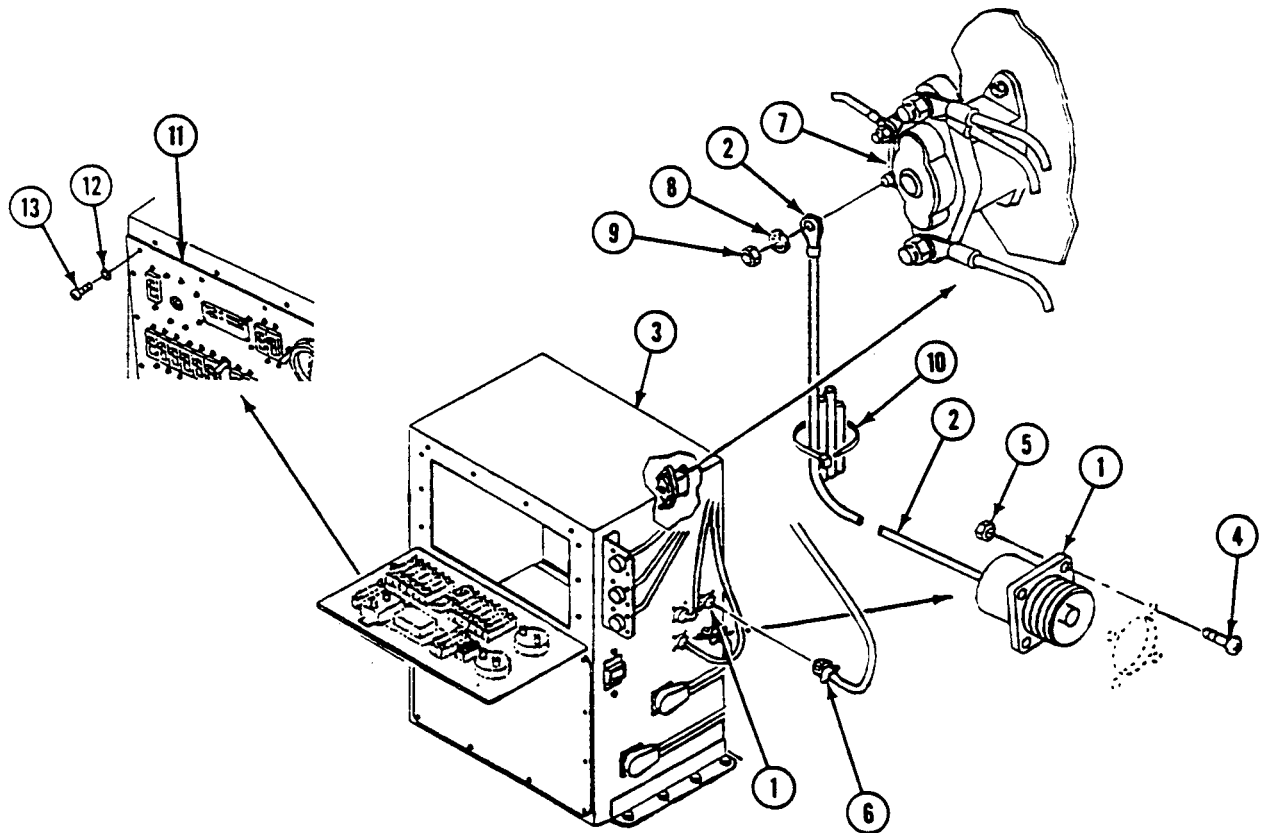


REPLACE POWER CONTROL ENCLOSURE CIRCUIT 44A LEAD (M1068A3 ONLY) —
Continued

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

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 (2)
Locknut (4)
Lockwasher (10)

Personnel Required

Power-Generation Equipment Repairer 52D10

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)

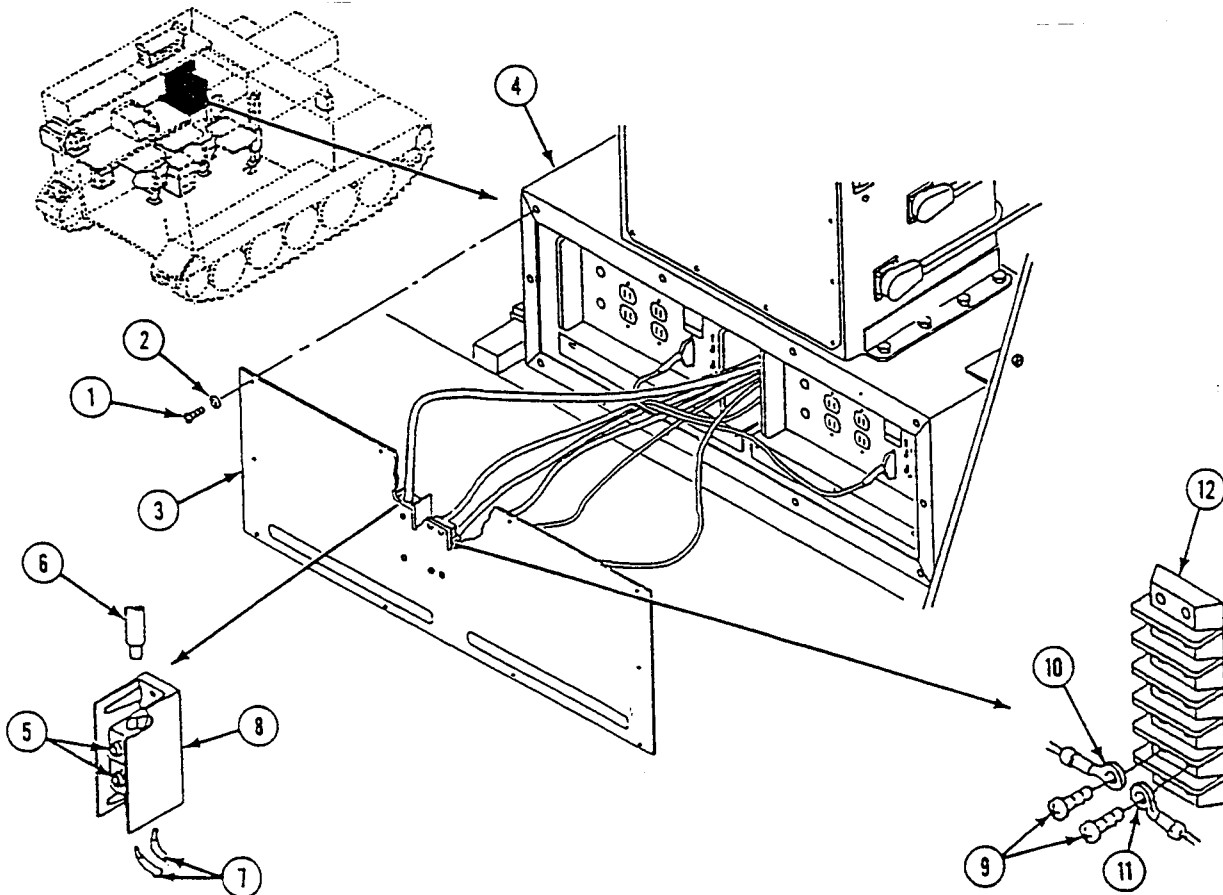
0830 00

— 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).

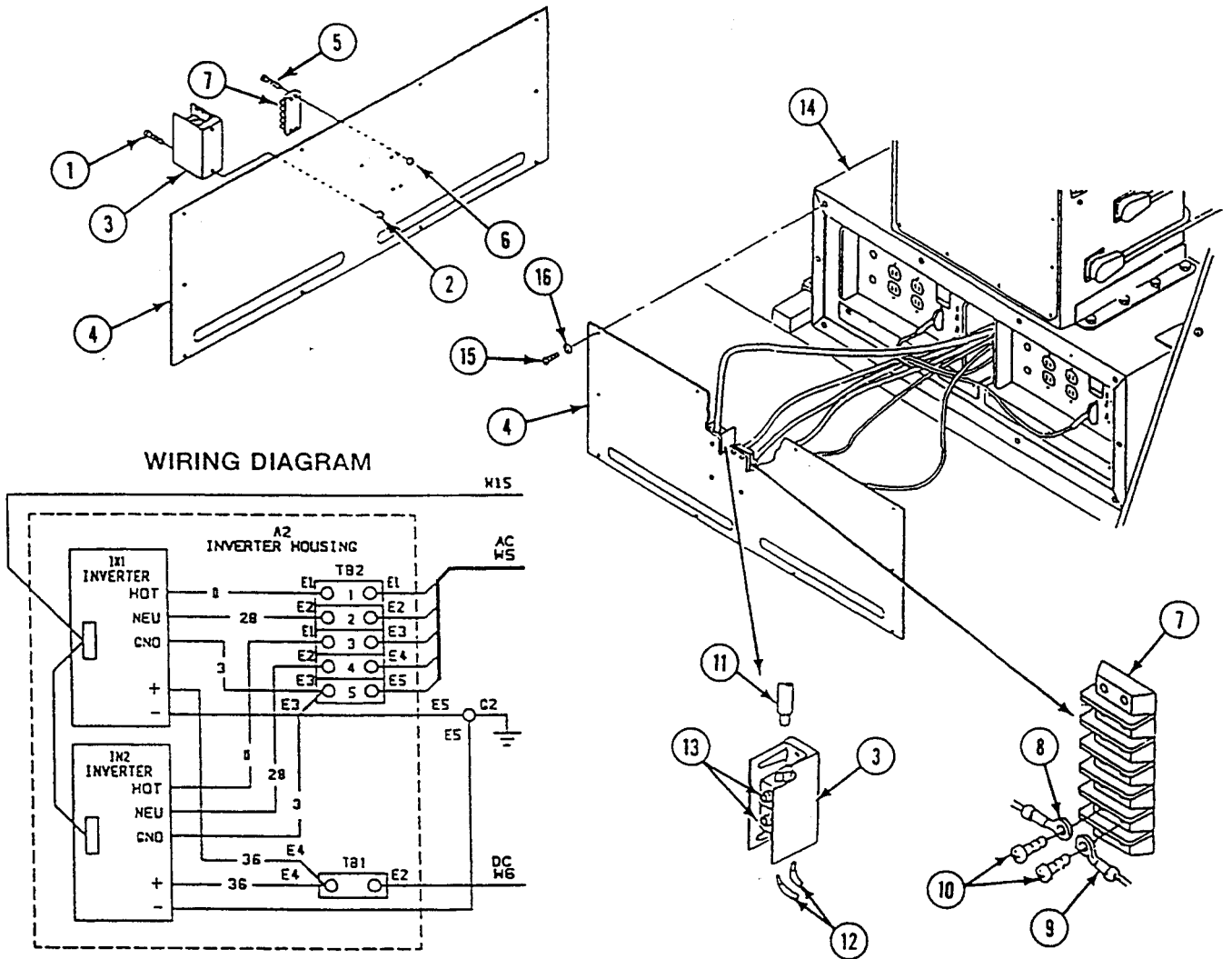


REPLACE INVERTER HOUSING A2 TERMINAL BLOCKS TB1 AND TB2 (M1068A3 ONLY)

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.



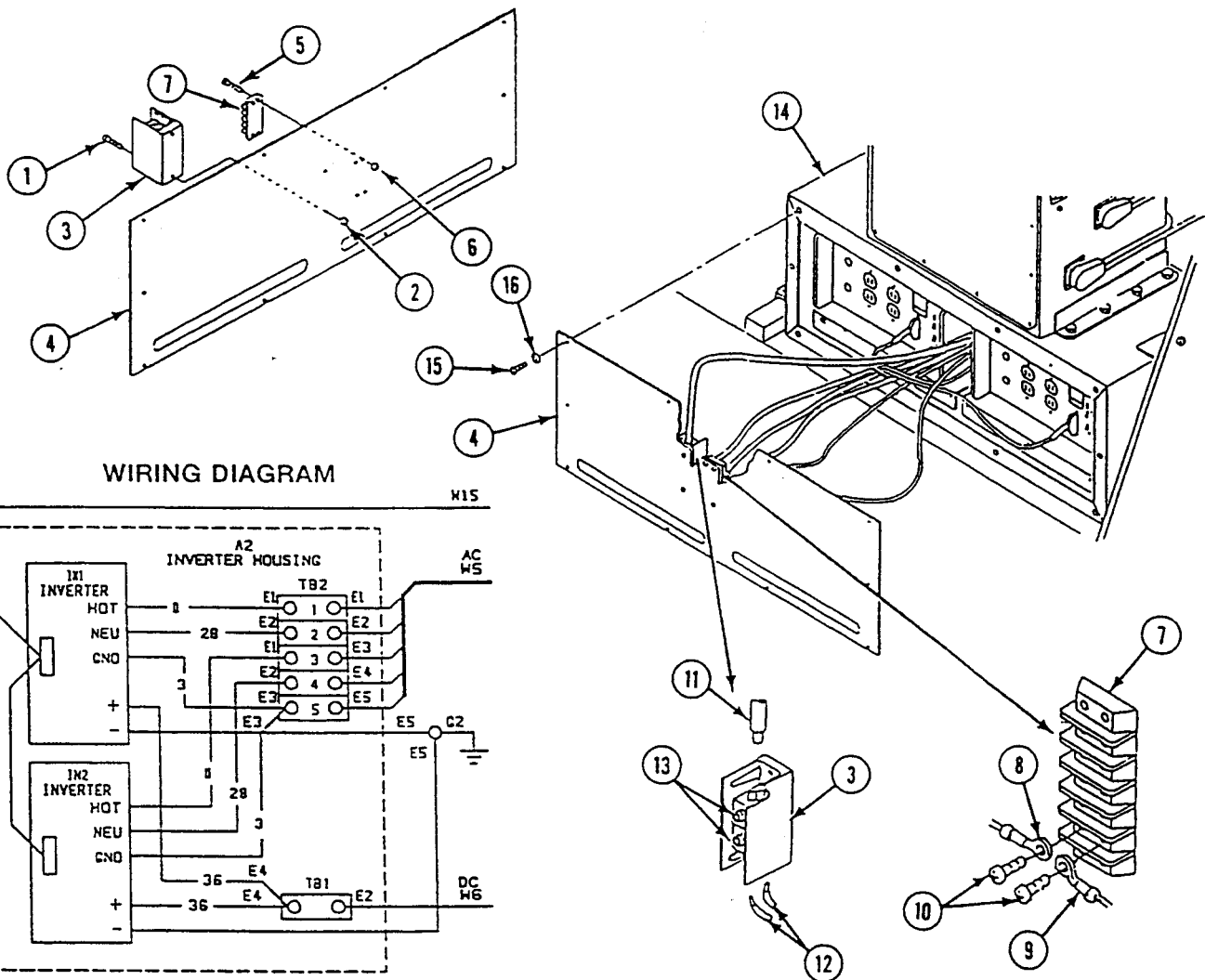
REPLACE INVERTER HOUSING A2 TERMINAL BLOCKS TB1 AND TB2 (M1068A3 ONLY)

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

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

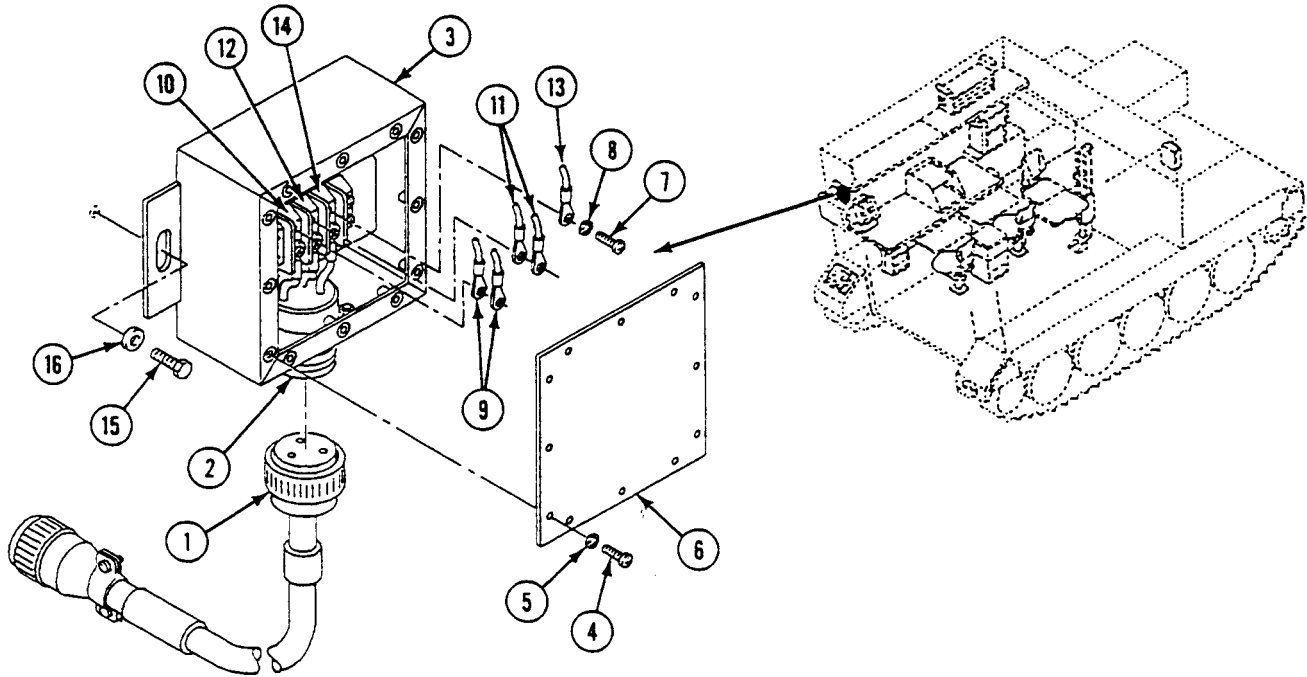
Power-Generation Equipment Repairer 52D10
Helper (H)

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.

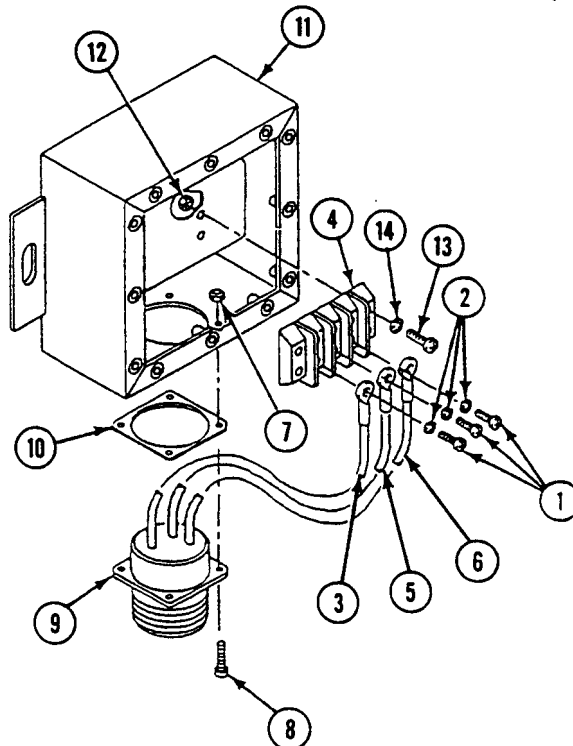


DISASSEMBLY

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).

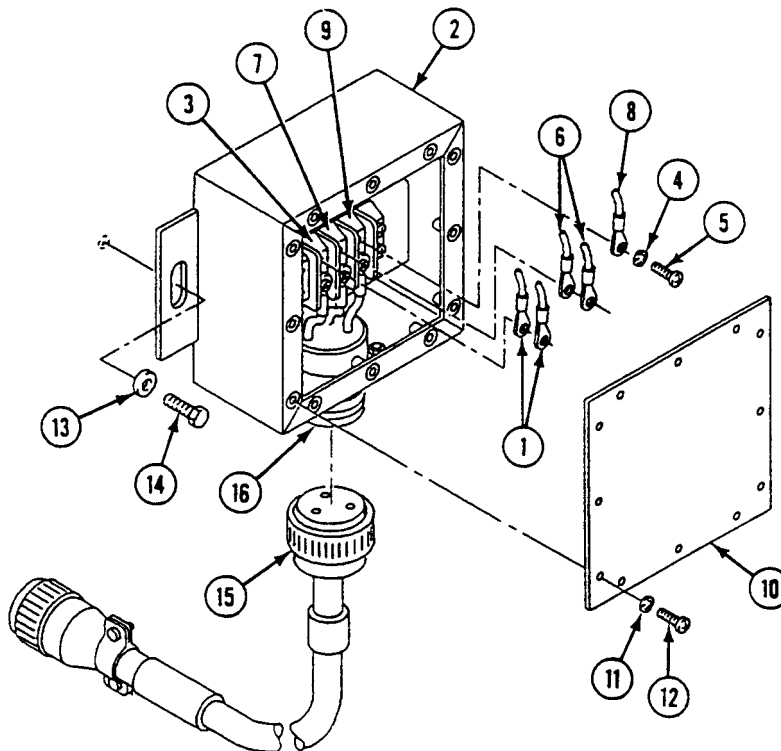
ASSEMBLY

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

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

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

Personnel Required

Power-Generation Equipment Repairer 52D10
 Helper (H)

REMOVAL

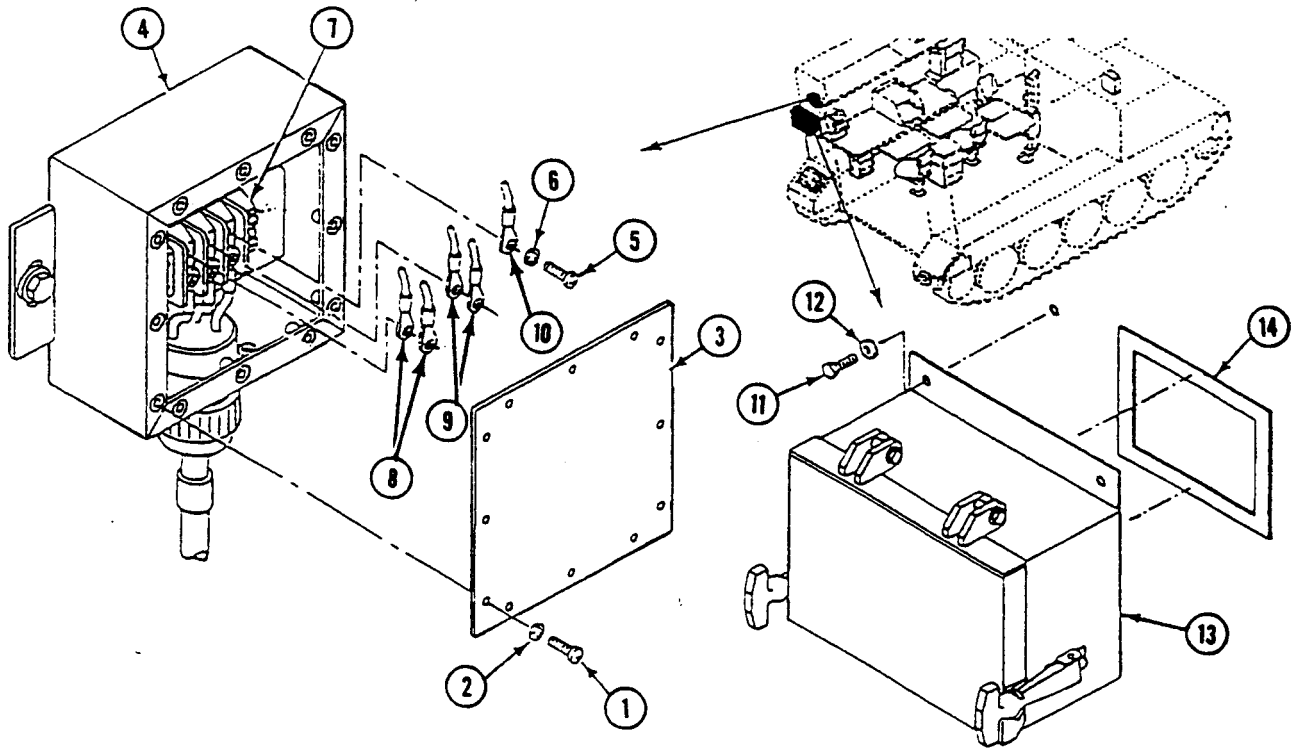
NOTE

Tag all leads during removal for proper installation later.

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

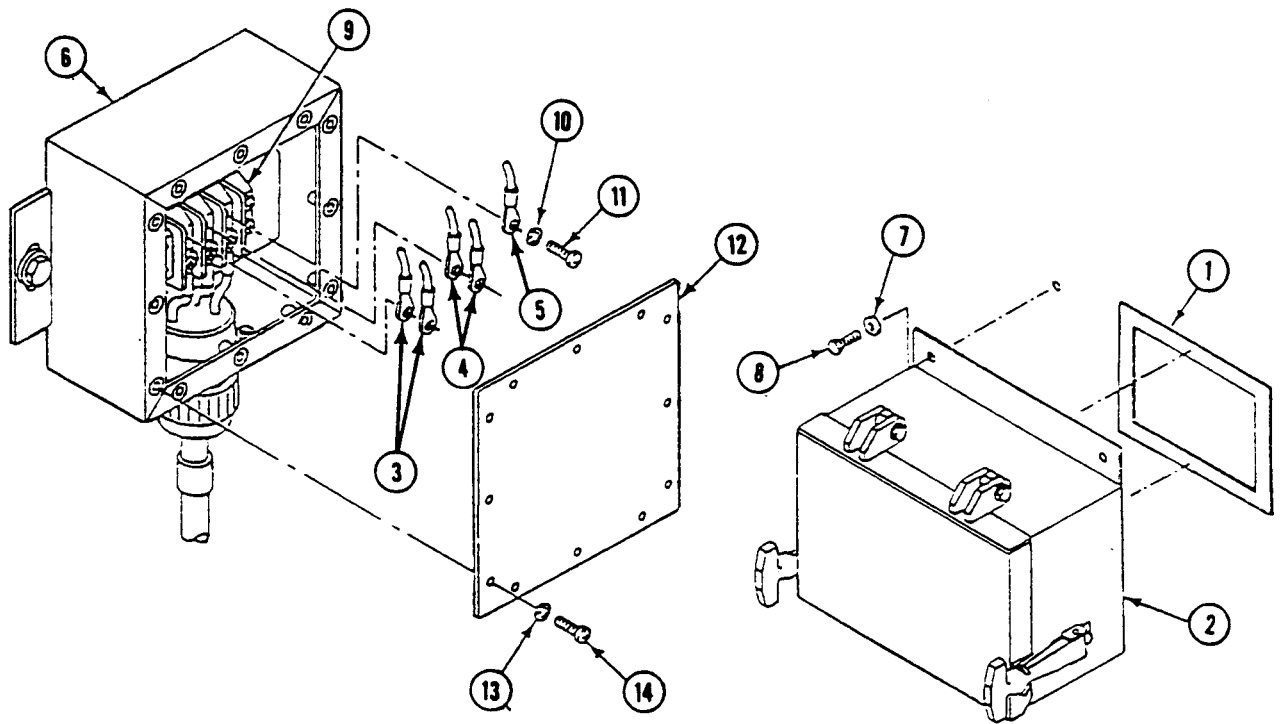
0832 00

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

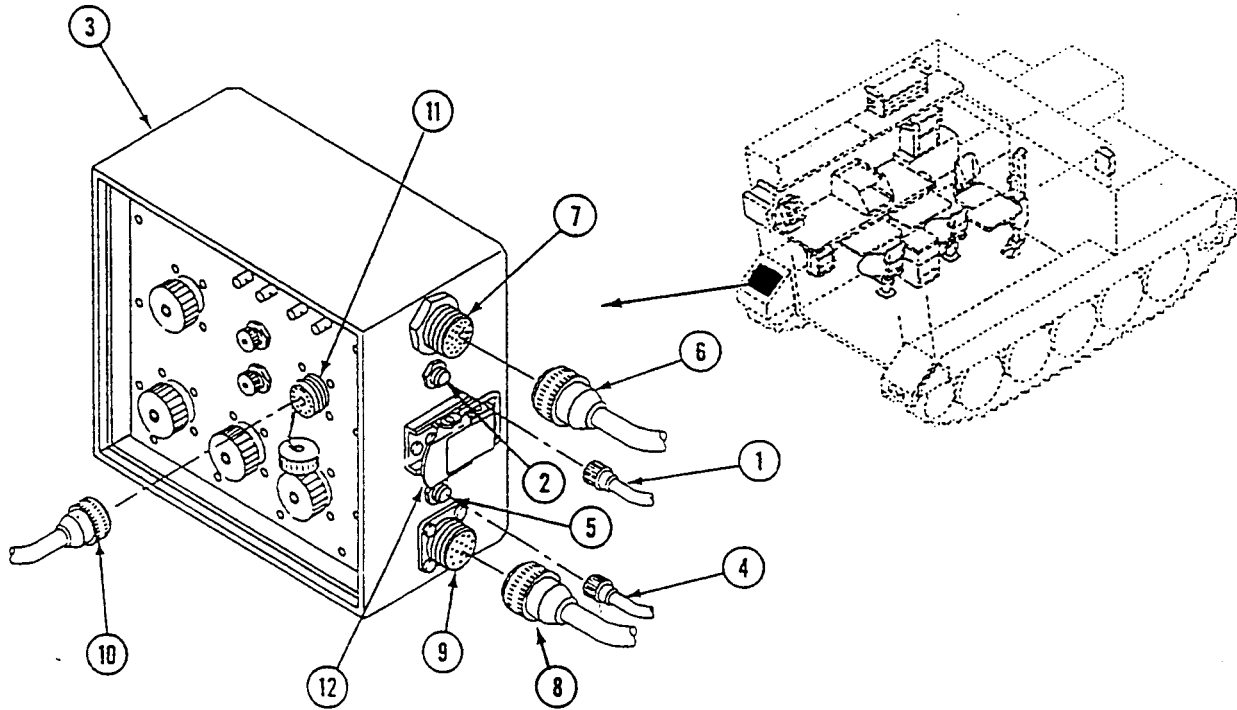
Equipment Condition

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

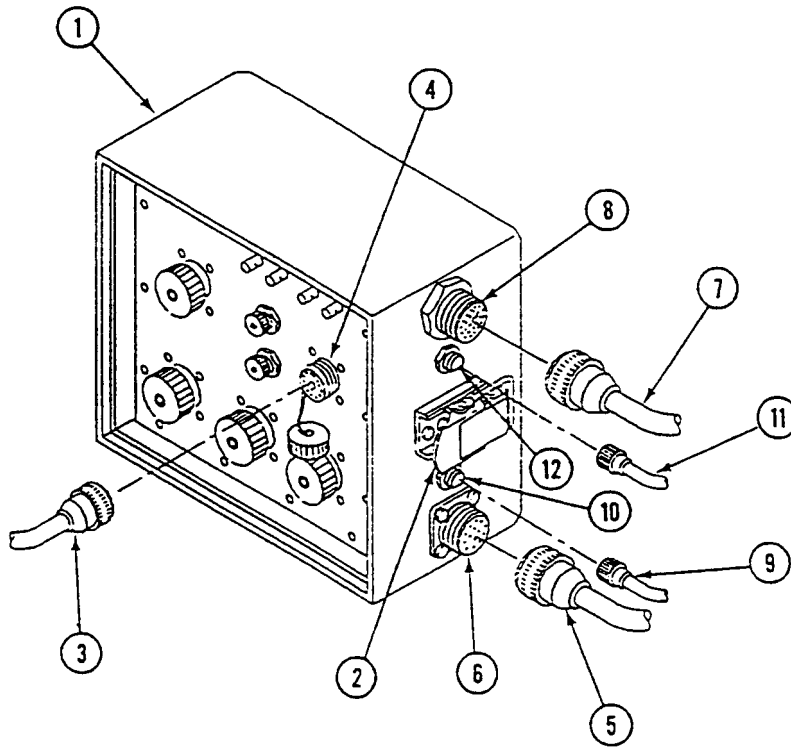
1. Disconnect W32P8 (1) from J10 (2) of tent interface panel (3).

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

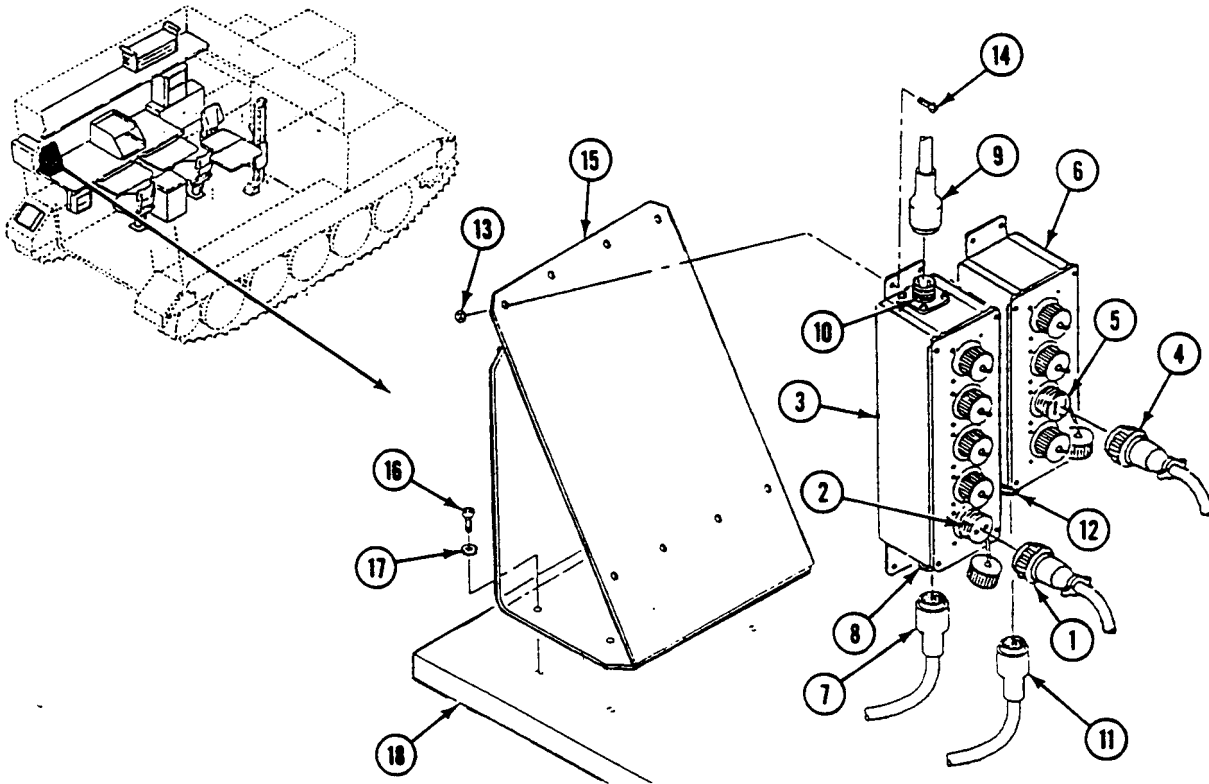
REMOVAL

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).

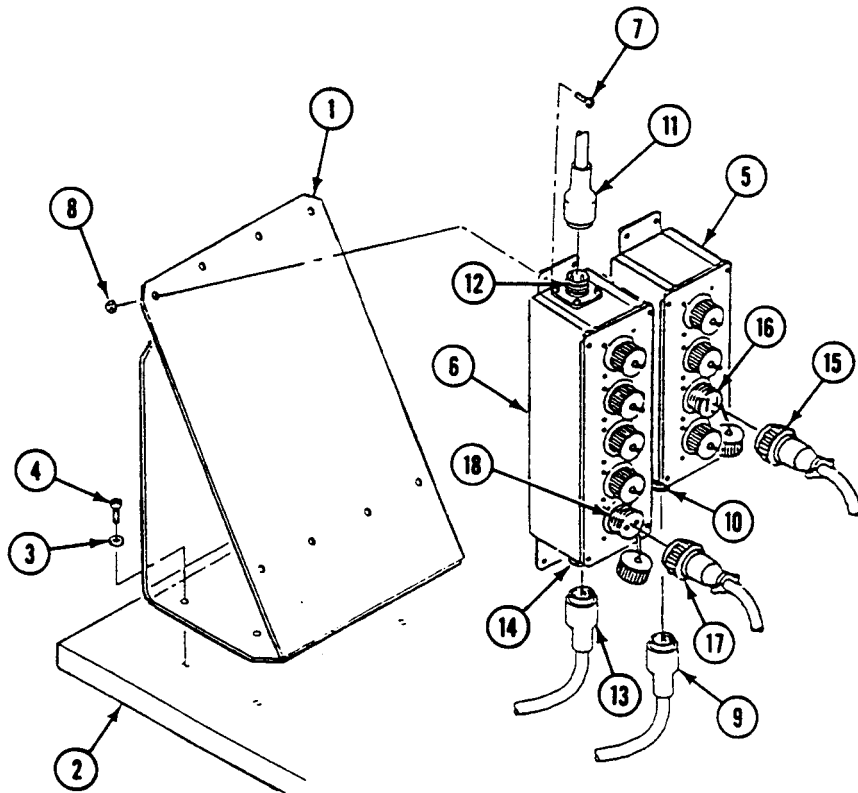


REPLACE AC POWER EXTENSION BOX A6 AND DC POWER EXTENSION BOX A9 AND MOUNT (M1068A3 ONLY) — Continued

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

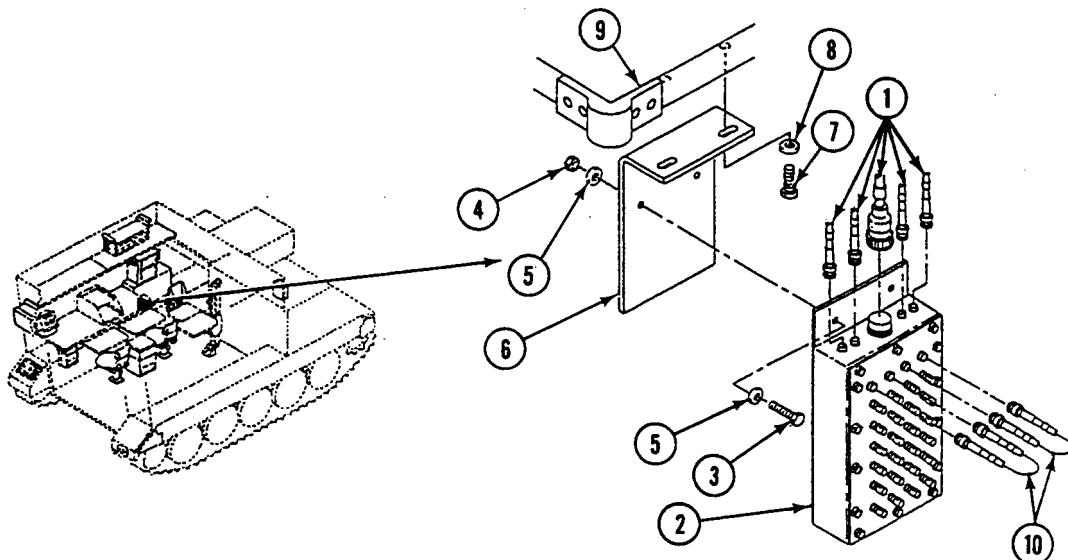
Signal Support System Specialist 31U10

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).

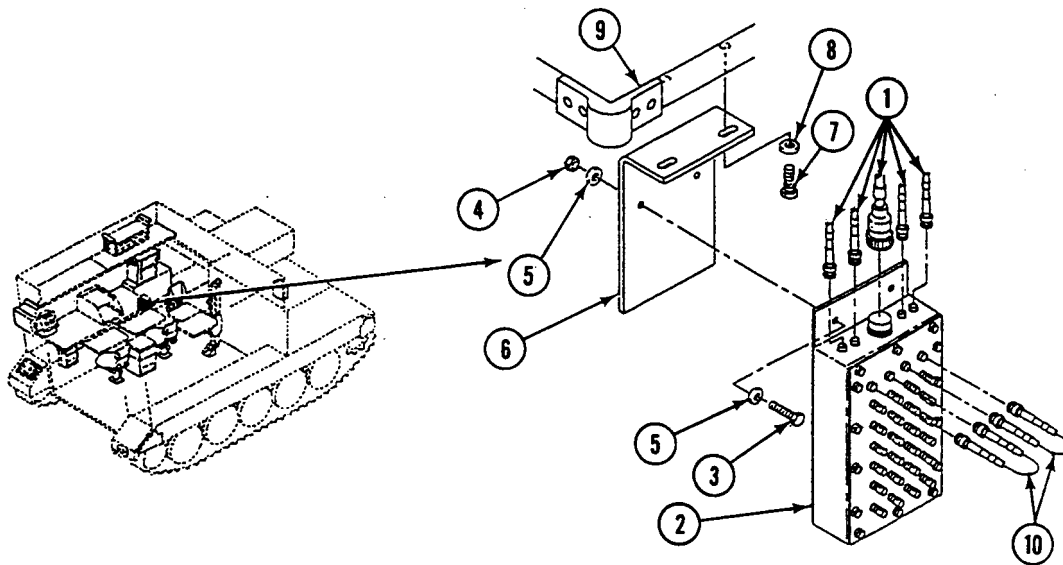


REPLACE ROADSIDE DATA PANEL ASSEMBLY A13 AND BRACKET (M1068A3 ONLY) —
Continued

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

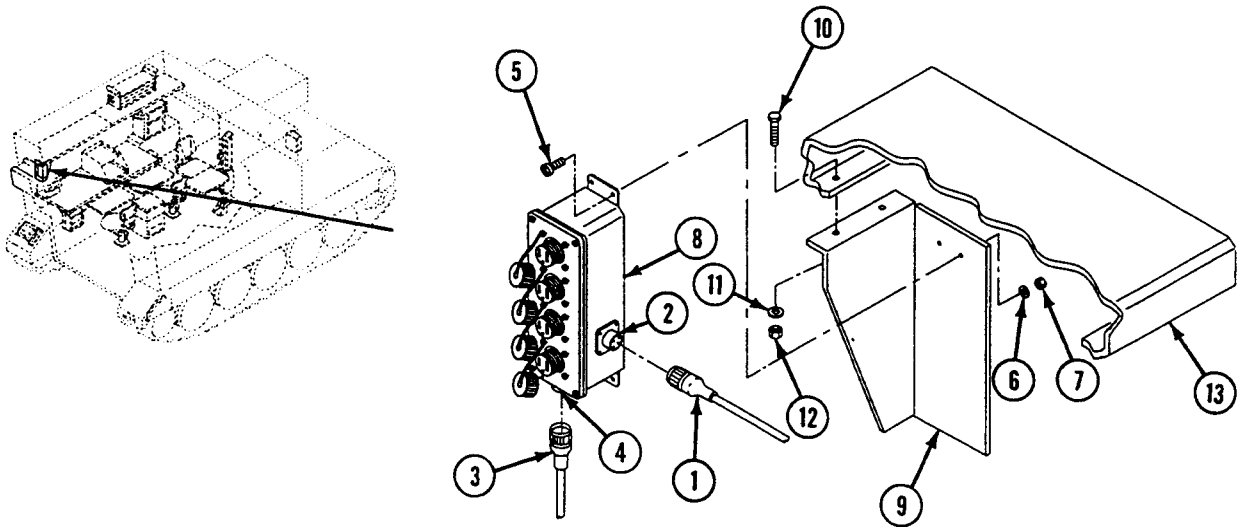
Locknut (4)
 Lockwasher (2)

Personnel Required

Unit Mechanic

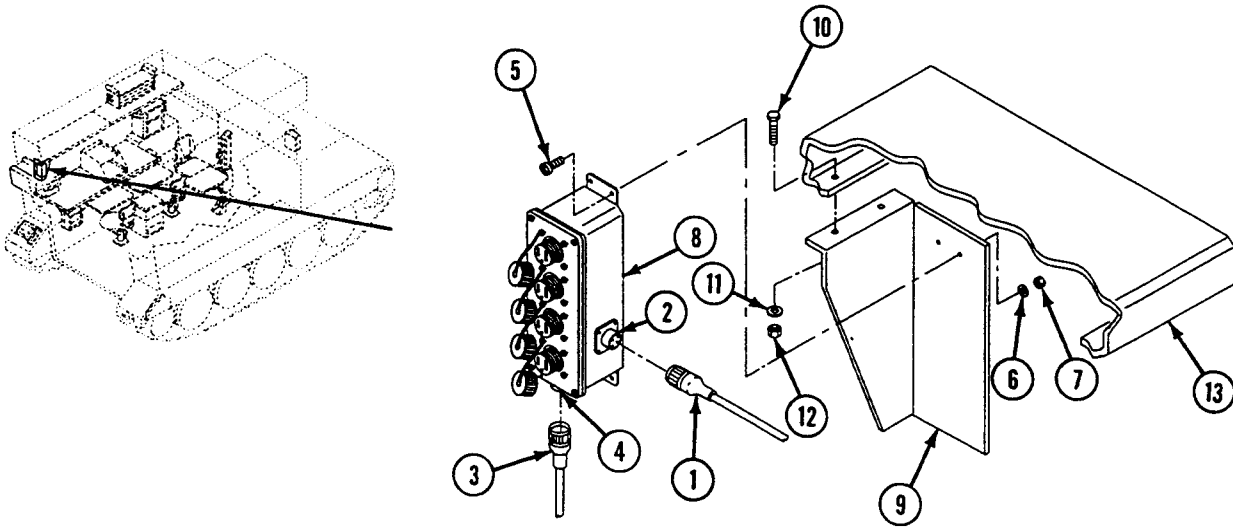
REMOVAL

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

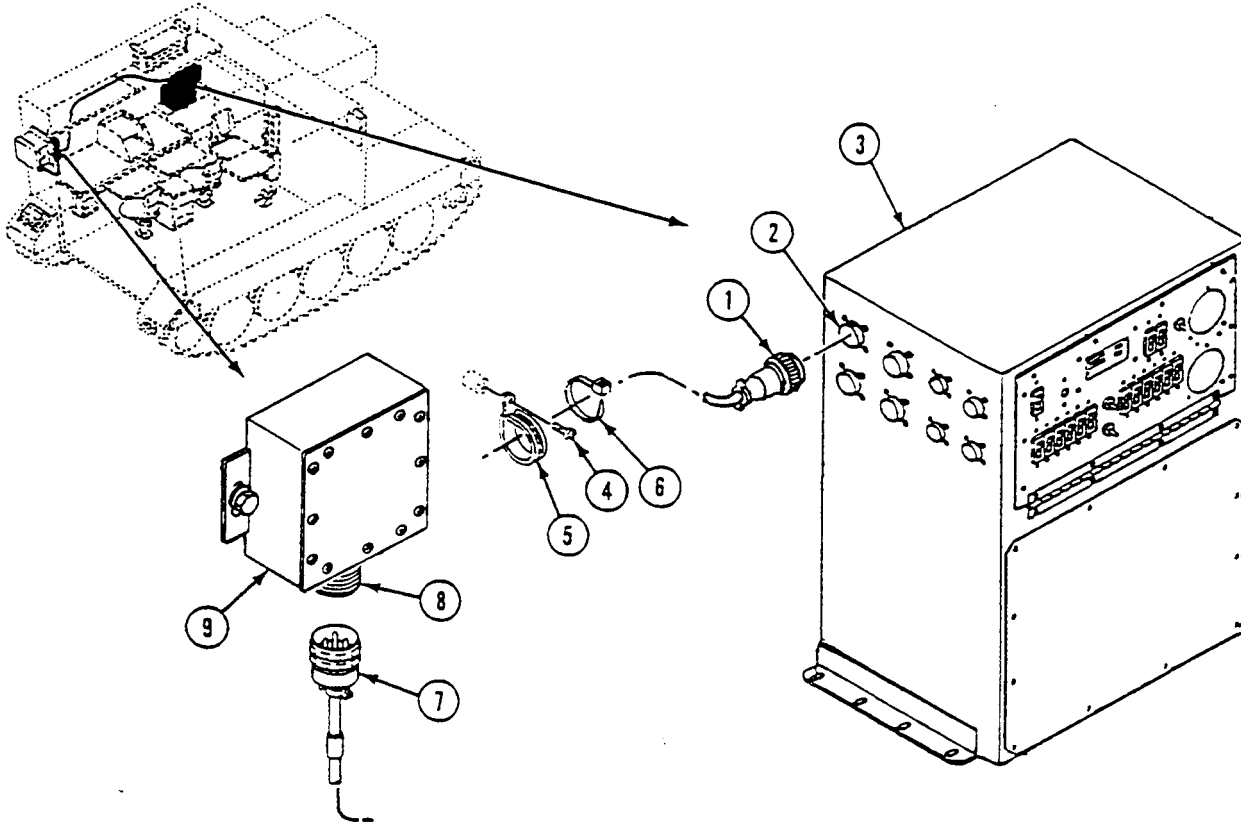
Power-Generation Equipment Repairer 52D10

REMOVAL

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

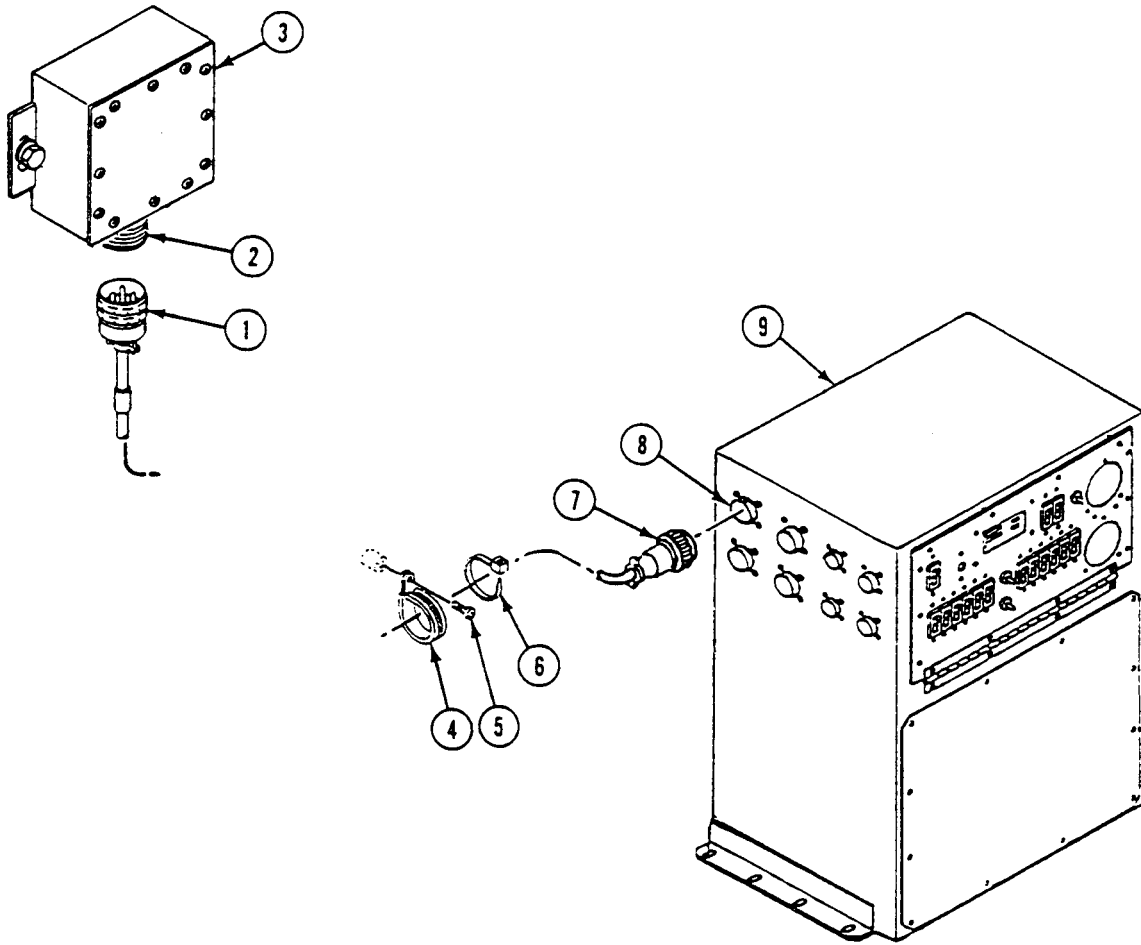
REPLACE POWER DISTRIBUTION CABLE (W3) (M1068A3 ONLY) — Continued**0837 00**

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)
-

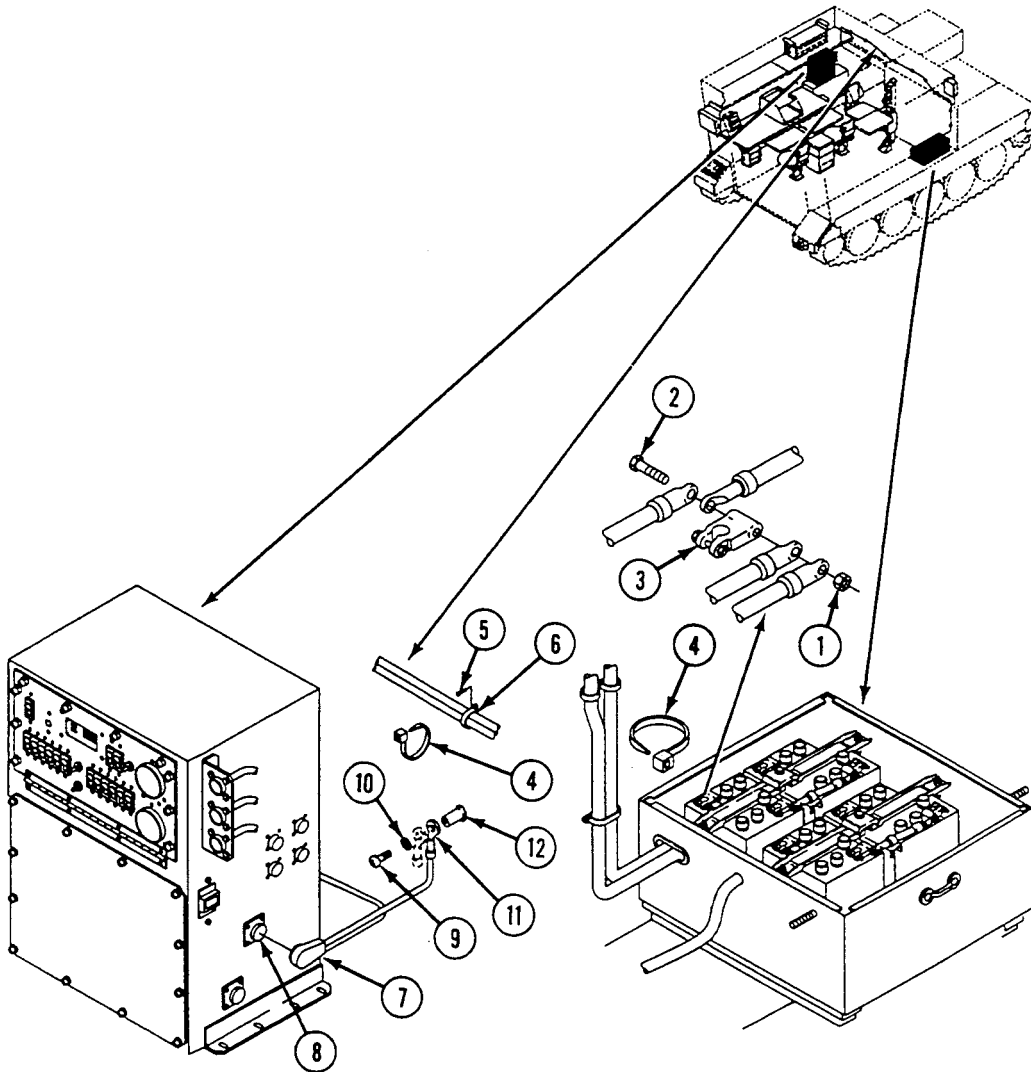
REMOVAL

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

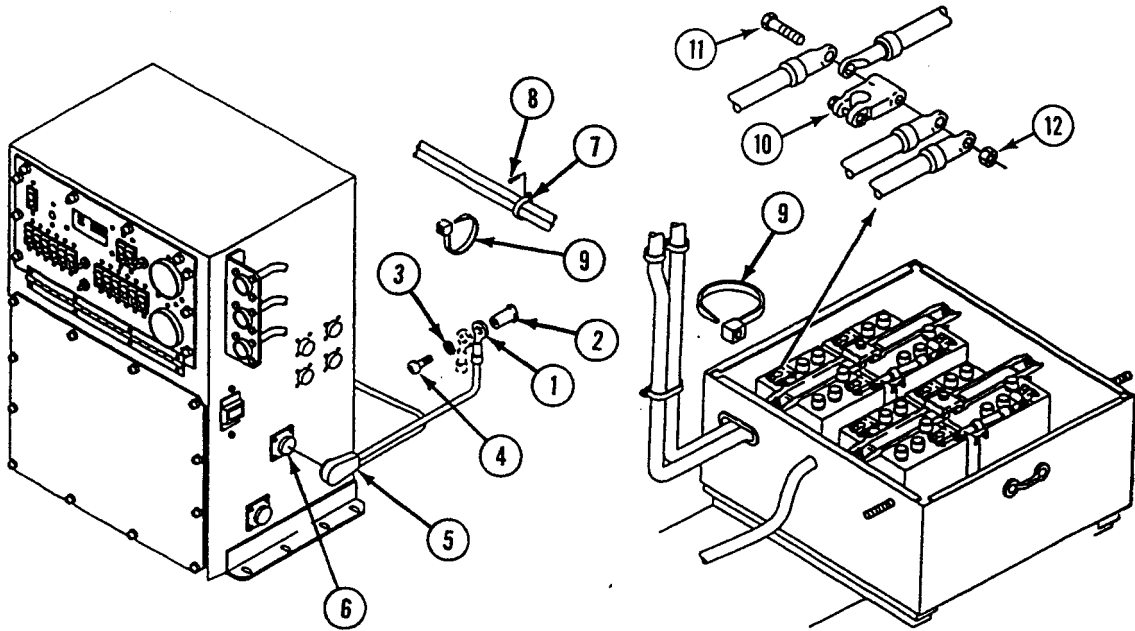
0838 00

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

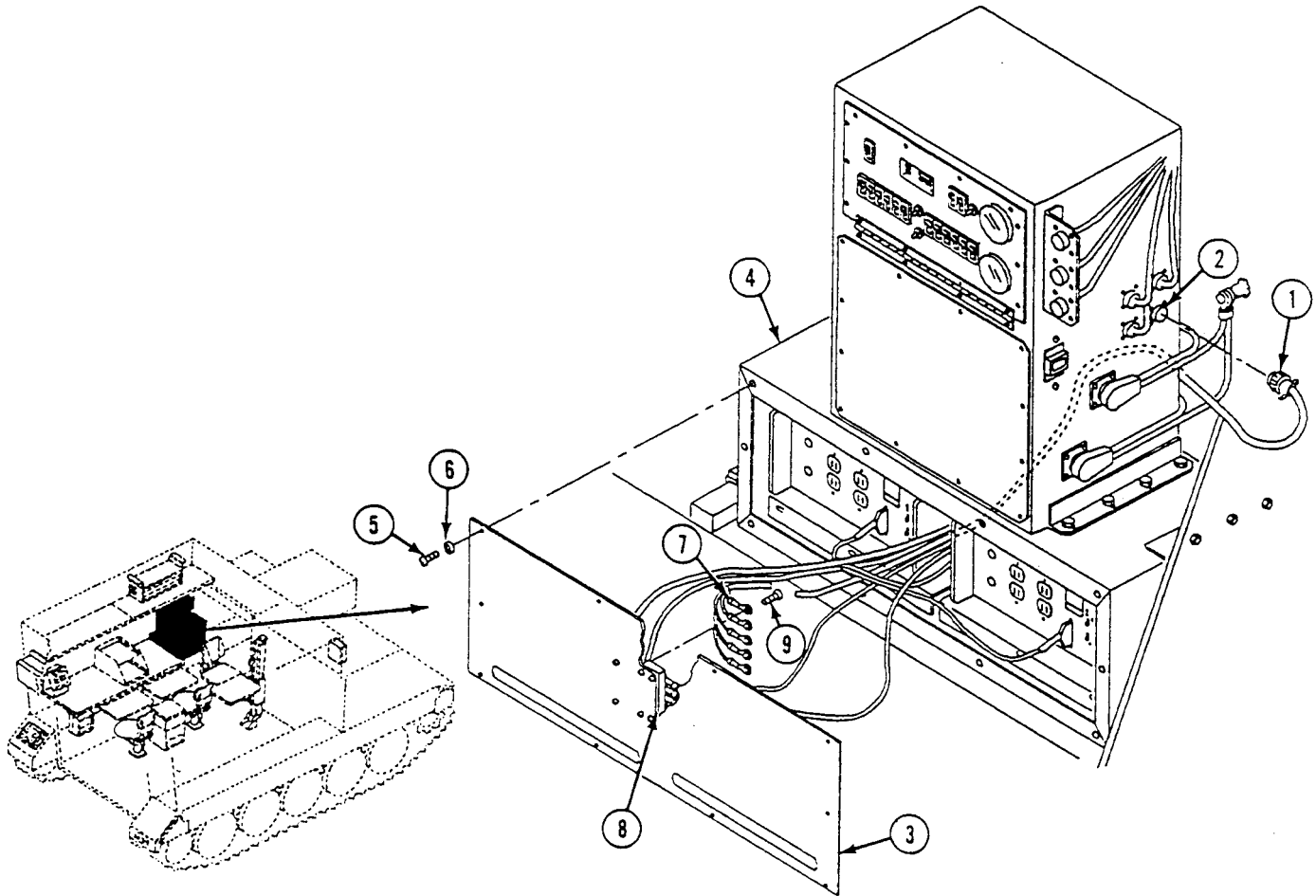
REMOVAL

NOTE

Tag all cables and leads before removal.

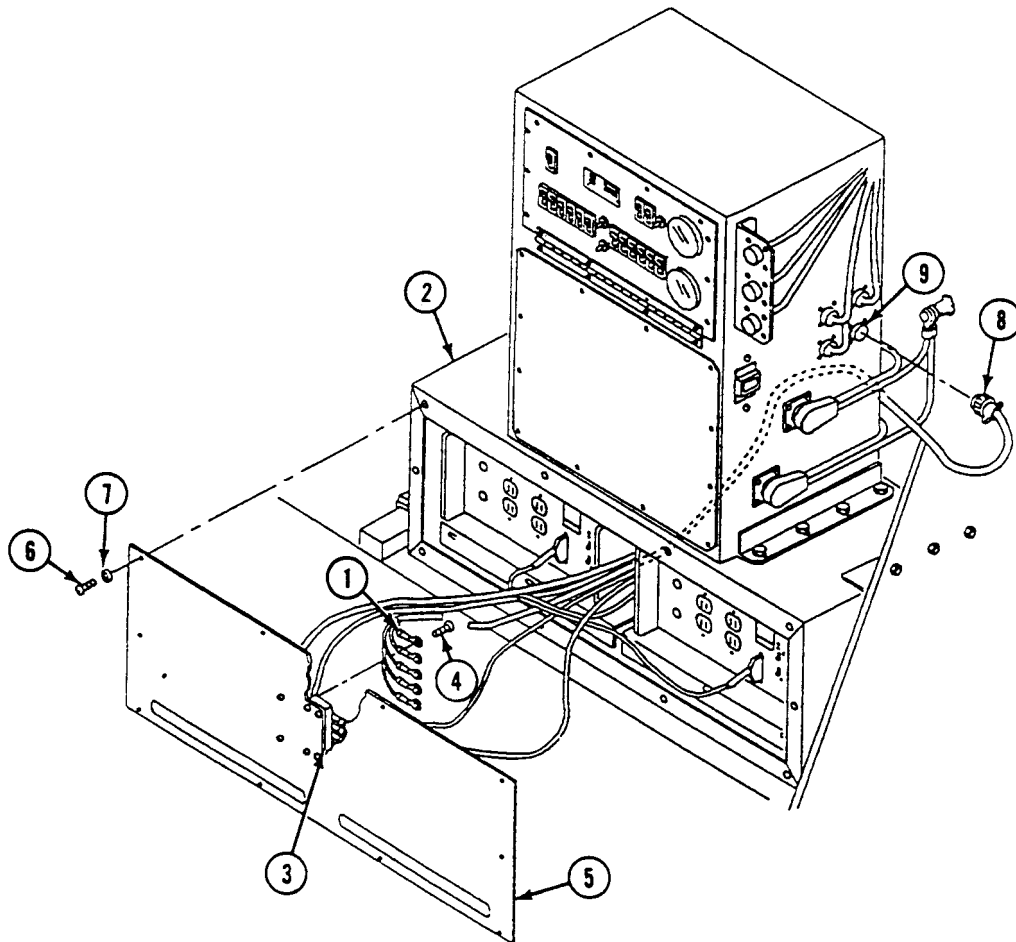
REPLACE/REPAIR INVERTER AC CABLE (W5) (M1068A3 ONLY) — Continued**0839 00**

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

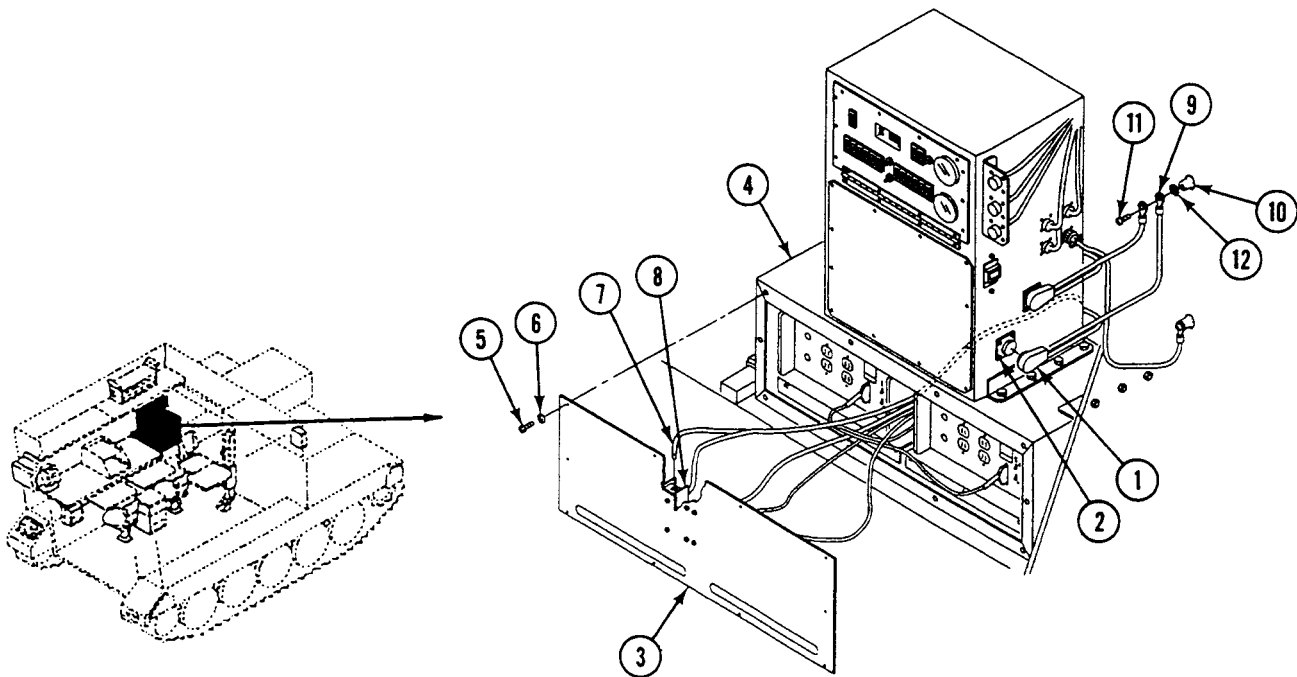
1. Disconnect cable W6 plug (1) from power control box A1 jack J26 (2).

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

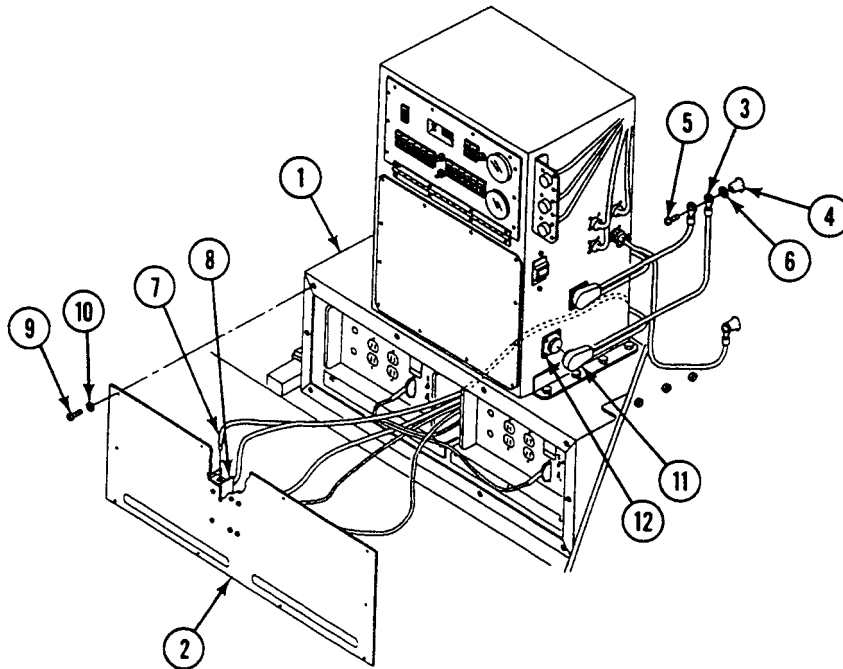
Ground post is located on hull wall between power control box A1 and driver's station.

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

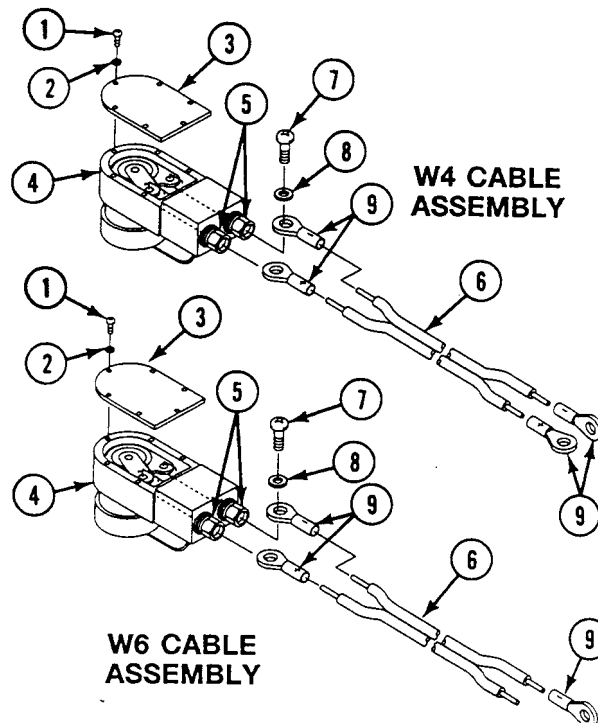
Unit Mechanic

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.

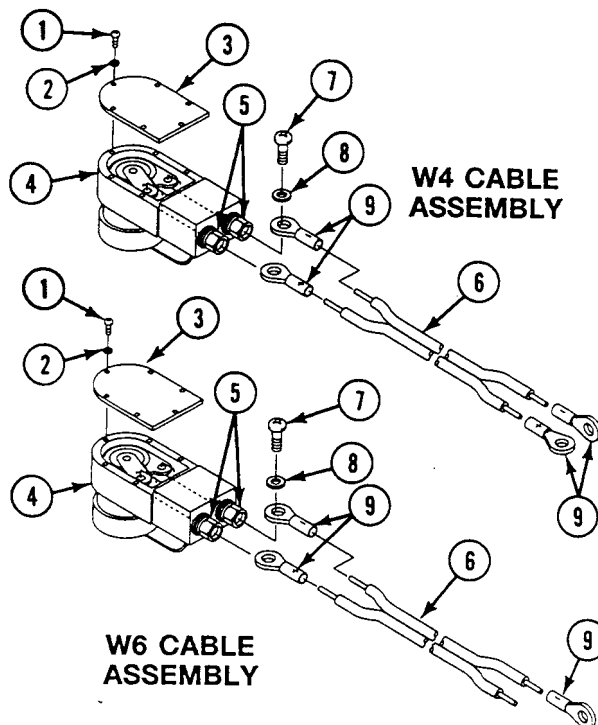
Position the terminals on the cables as shown.

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)

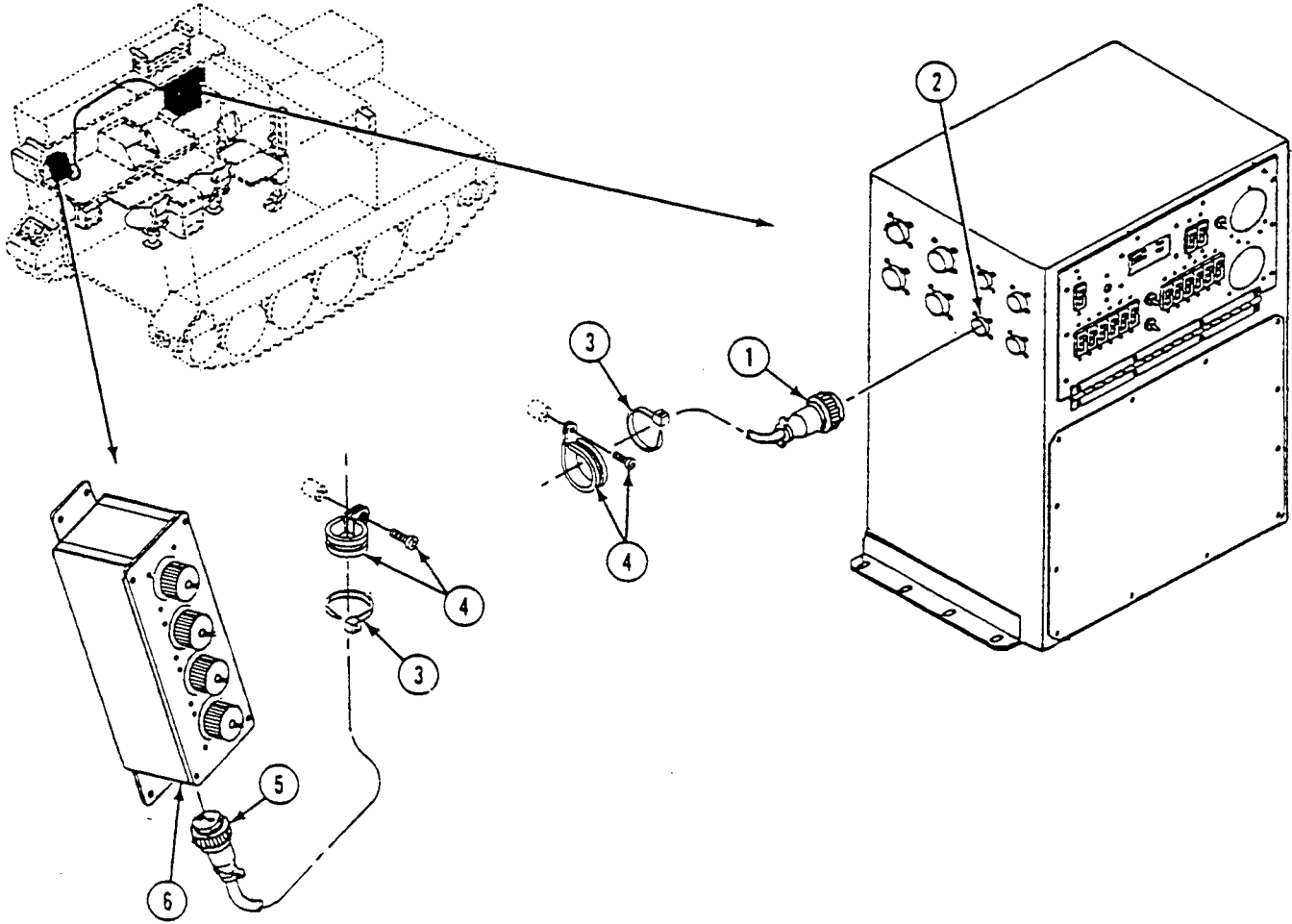
Personnel Required

Power-Generation Equipment Repairer 52D10

REMOVAL

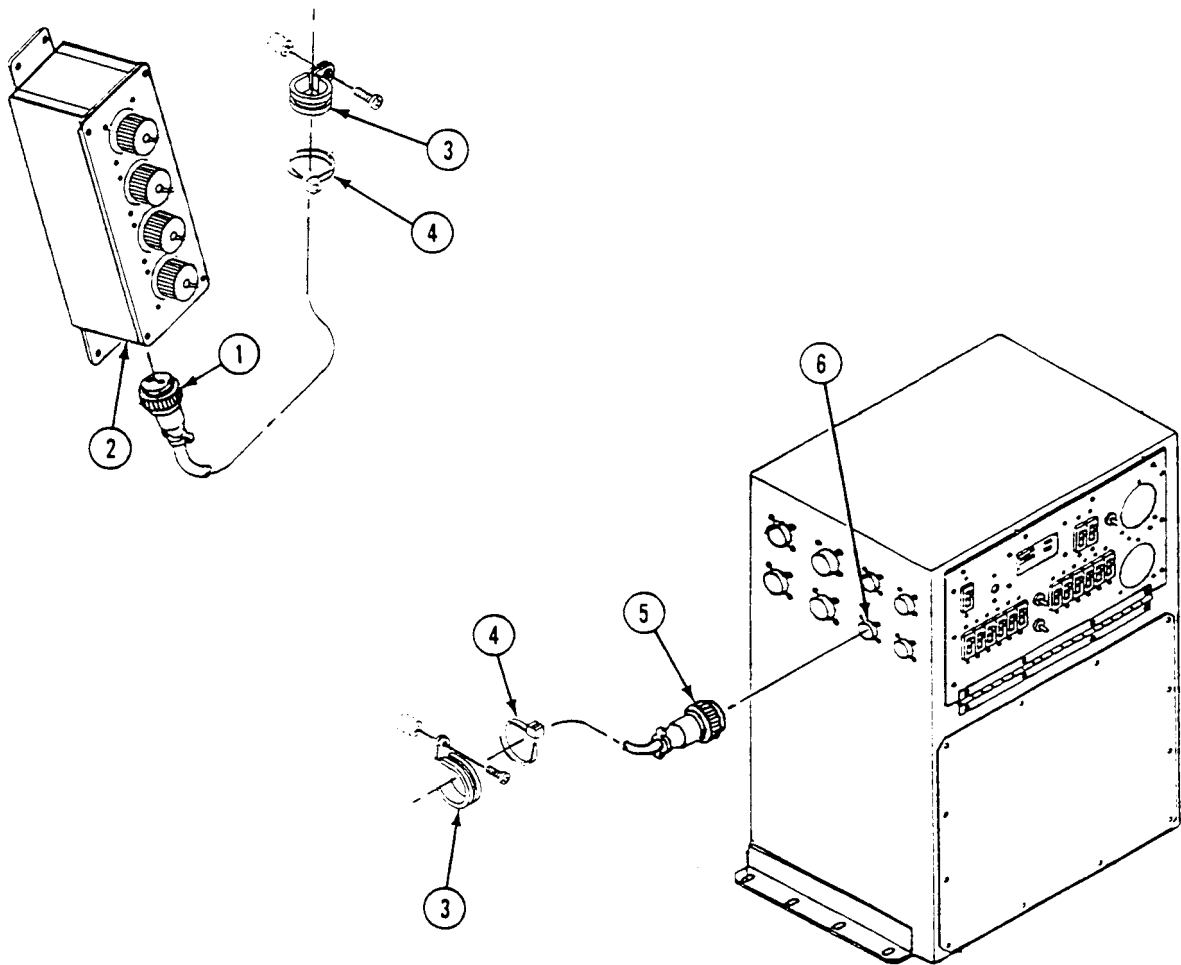
1. Disconnect cable W7 plug P10 (1) from power control box A1 jack J30 (2).

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)

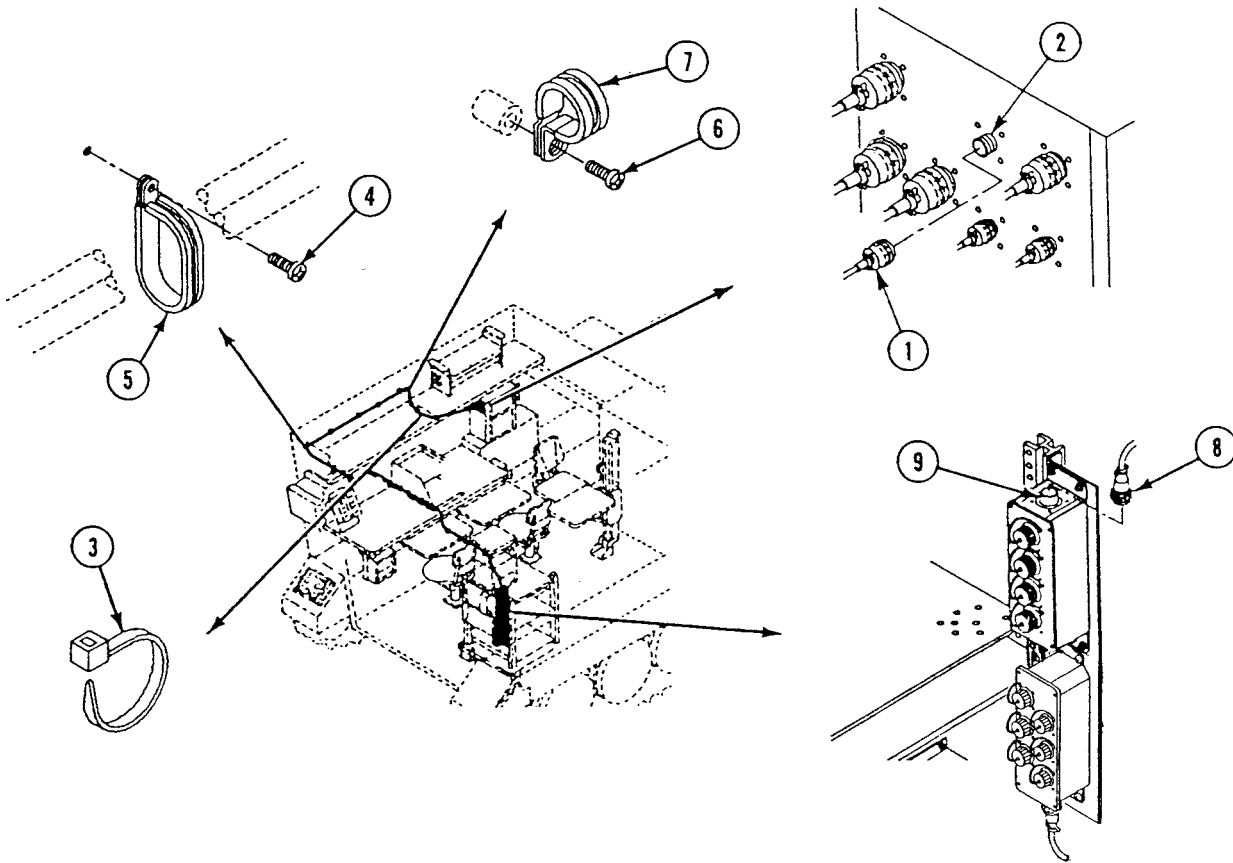
Personnel Required

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).

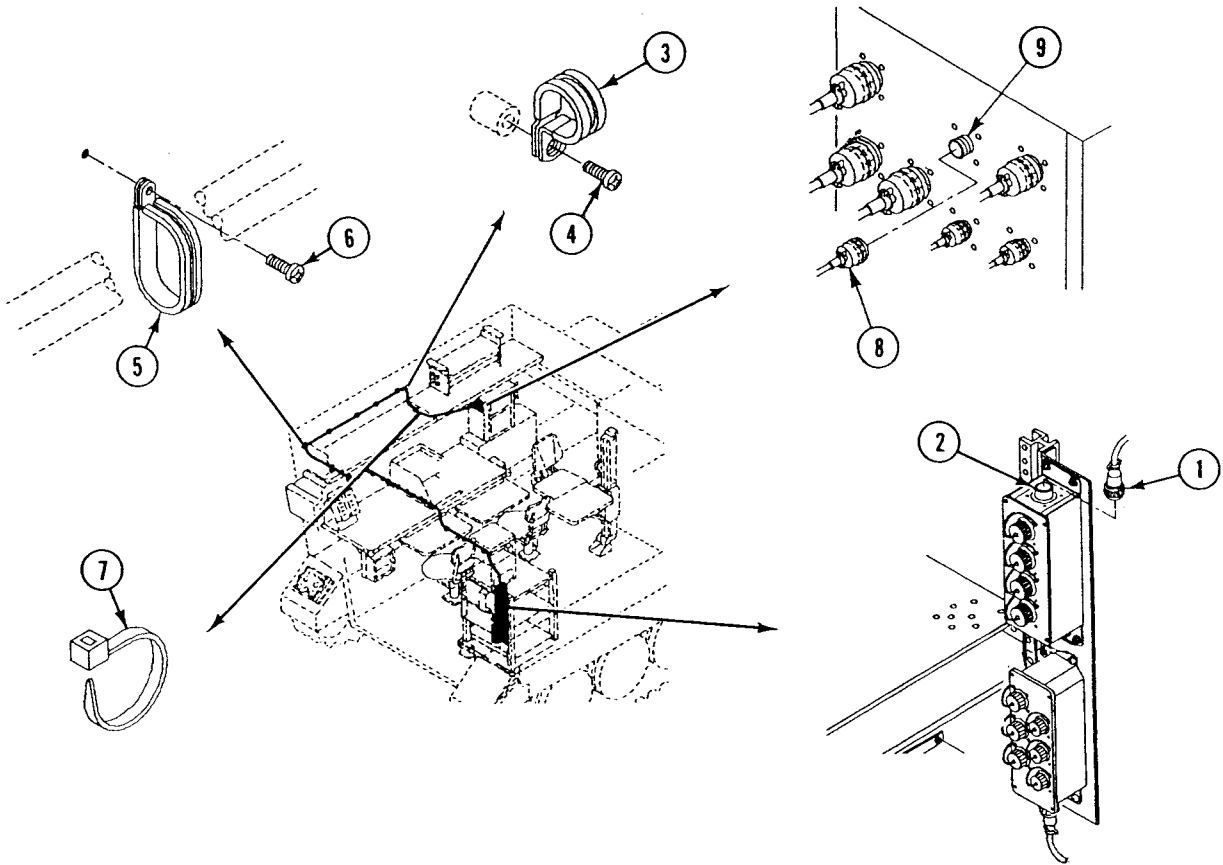
6. Remove cable W8 from carrier.



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).

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



FOLLOW-THROUGH STEPS

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

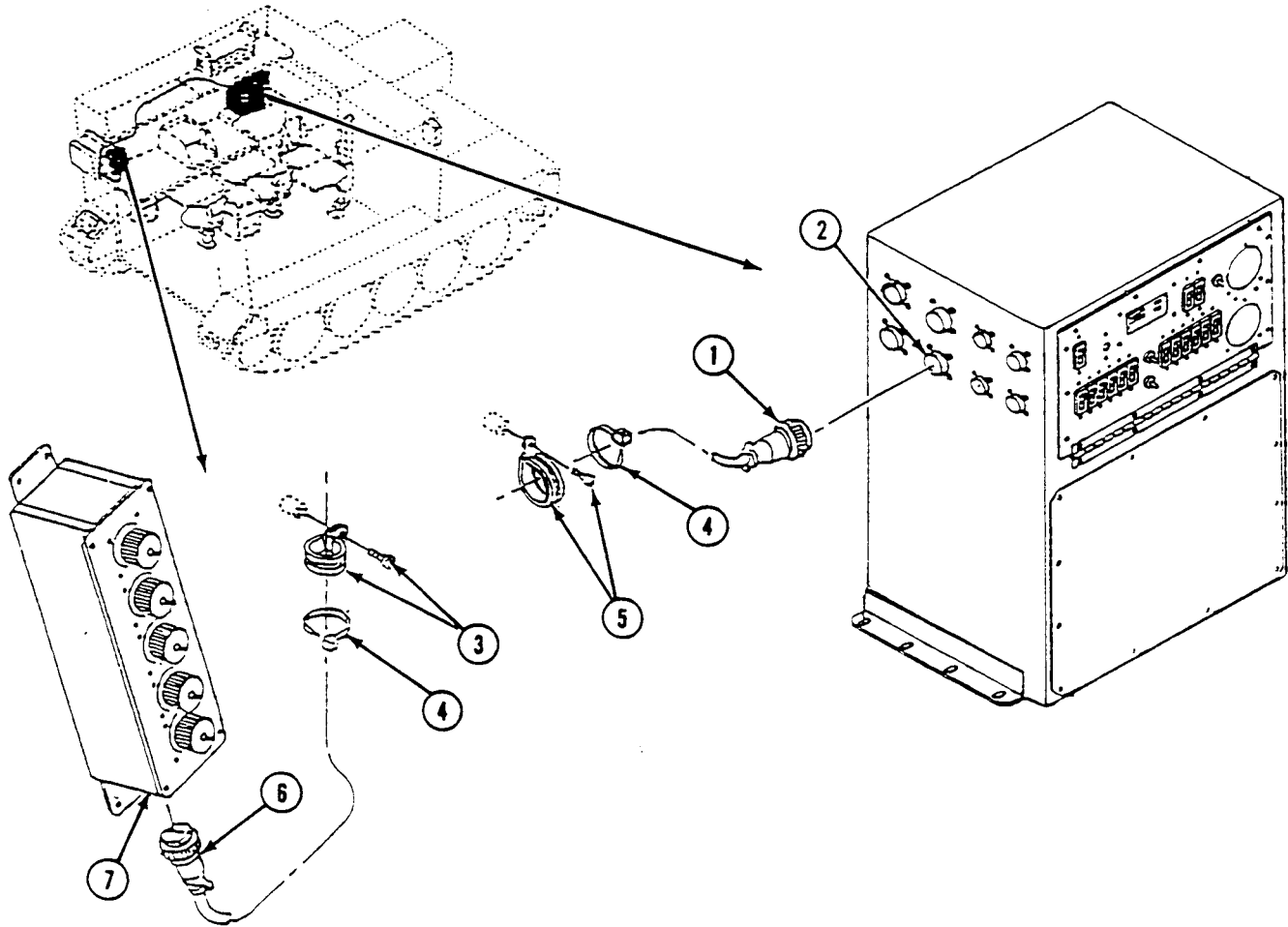
Personnel Required

Power-Generation Equipment Repairer 52D10

REMOVAL

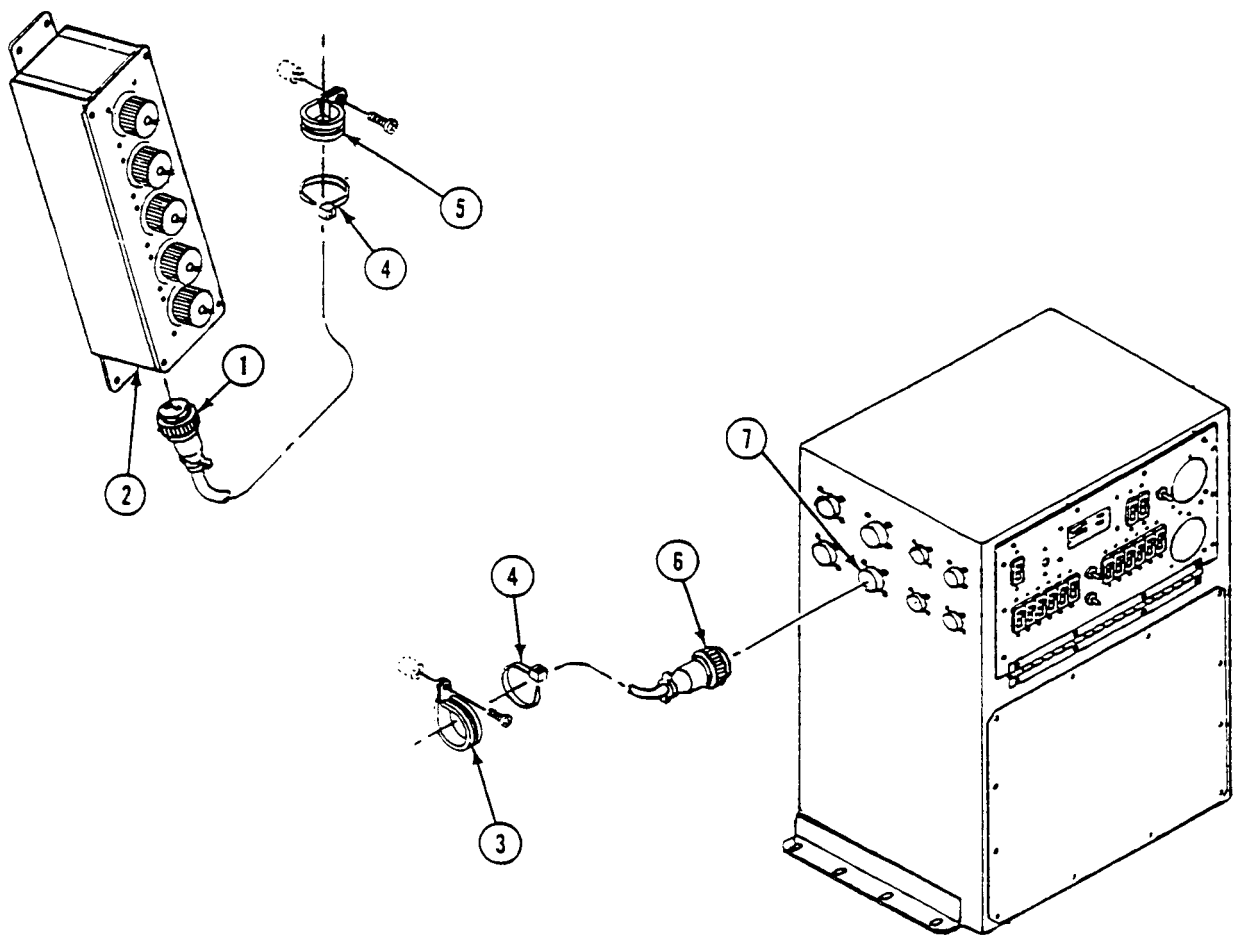
1. Disconnect cable W10 plug P14 (1) from power control box A1 jack J34 (2).

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

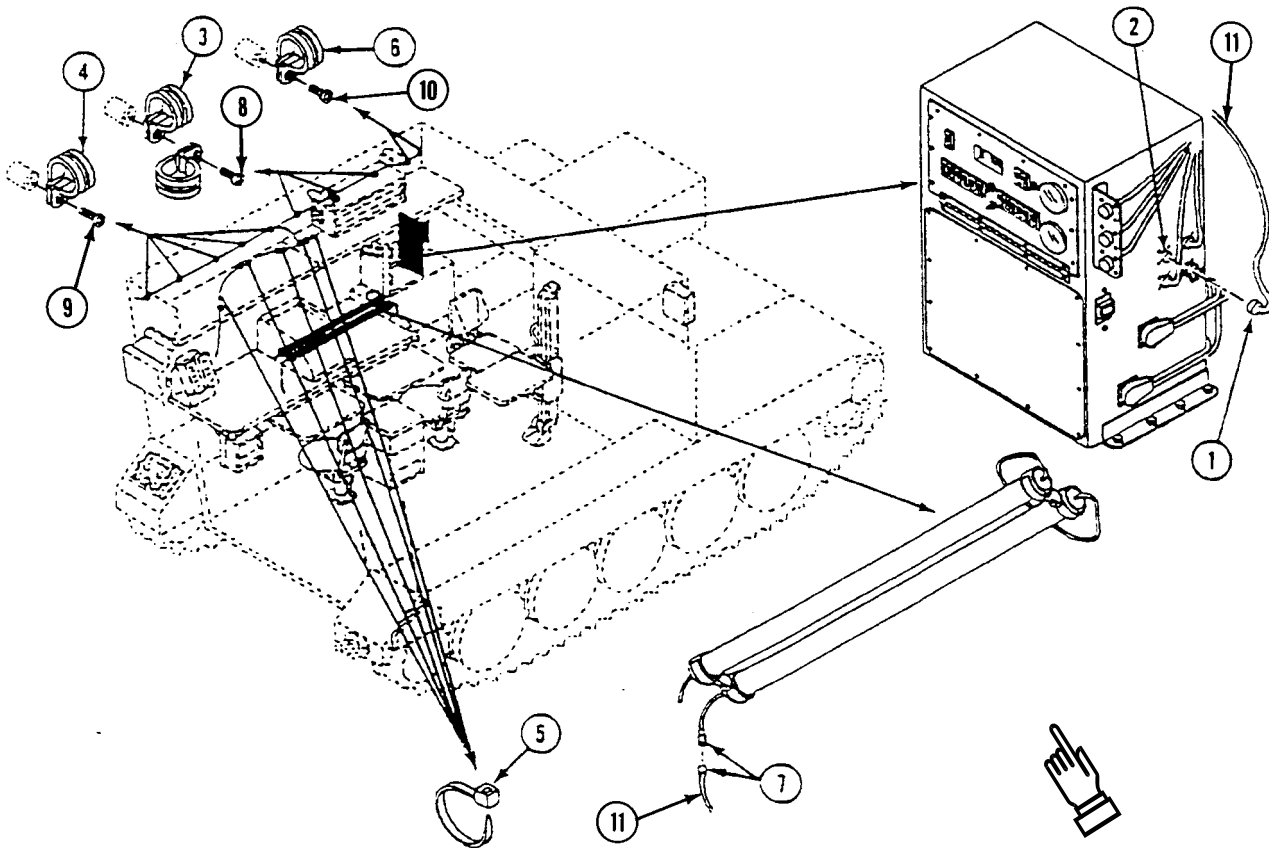
Strap (5)

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

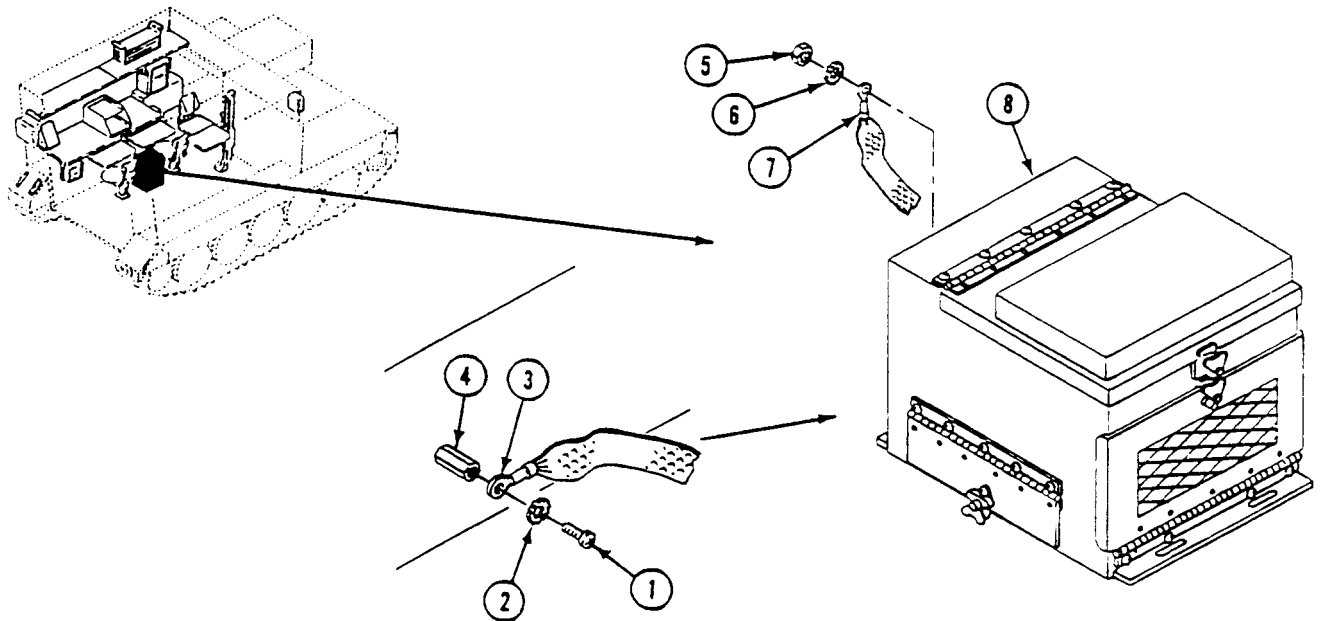
Lockwasher
 Lockwasher

Personnel Required

Power-Generation Equipment Repairer 52D10

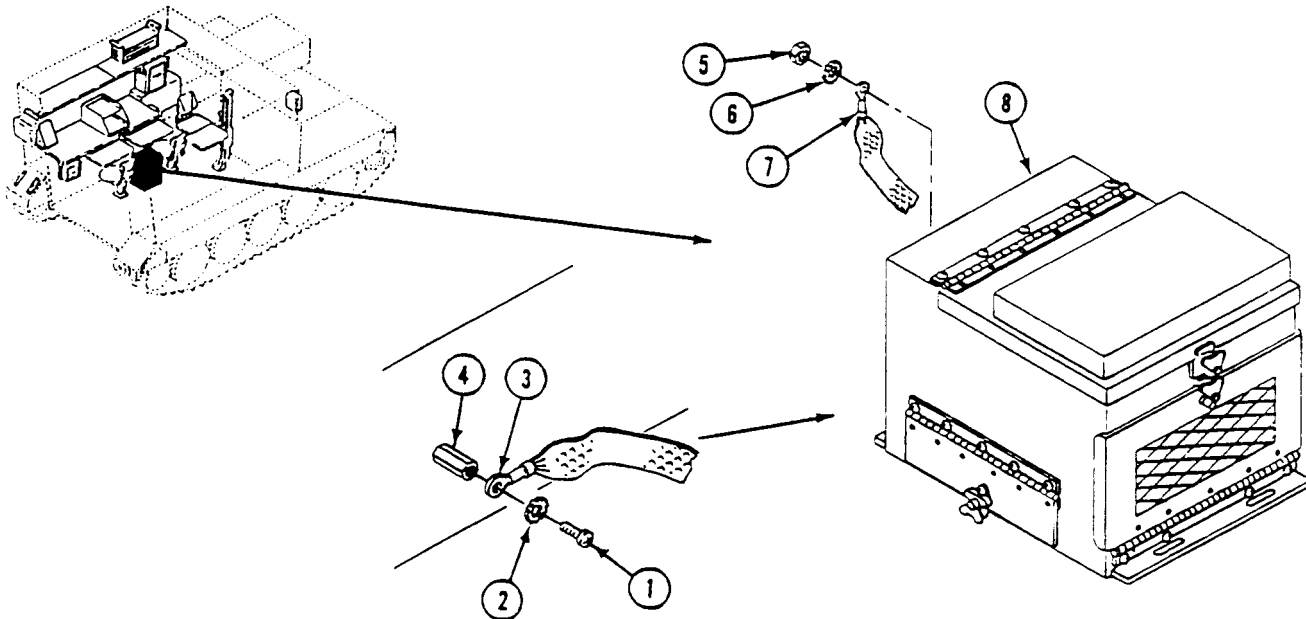
REMOVAL

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

Tools and Special Tools

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

Materials/Parts

Lockwasher (10)

Lockwasher (10)

Locknut (4)

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)

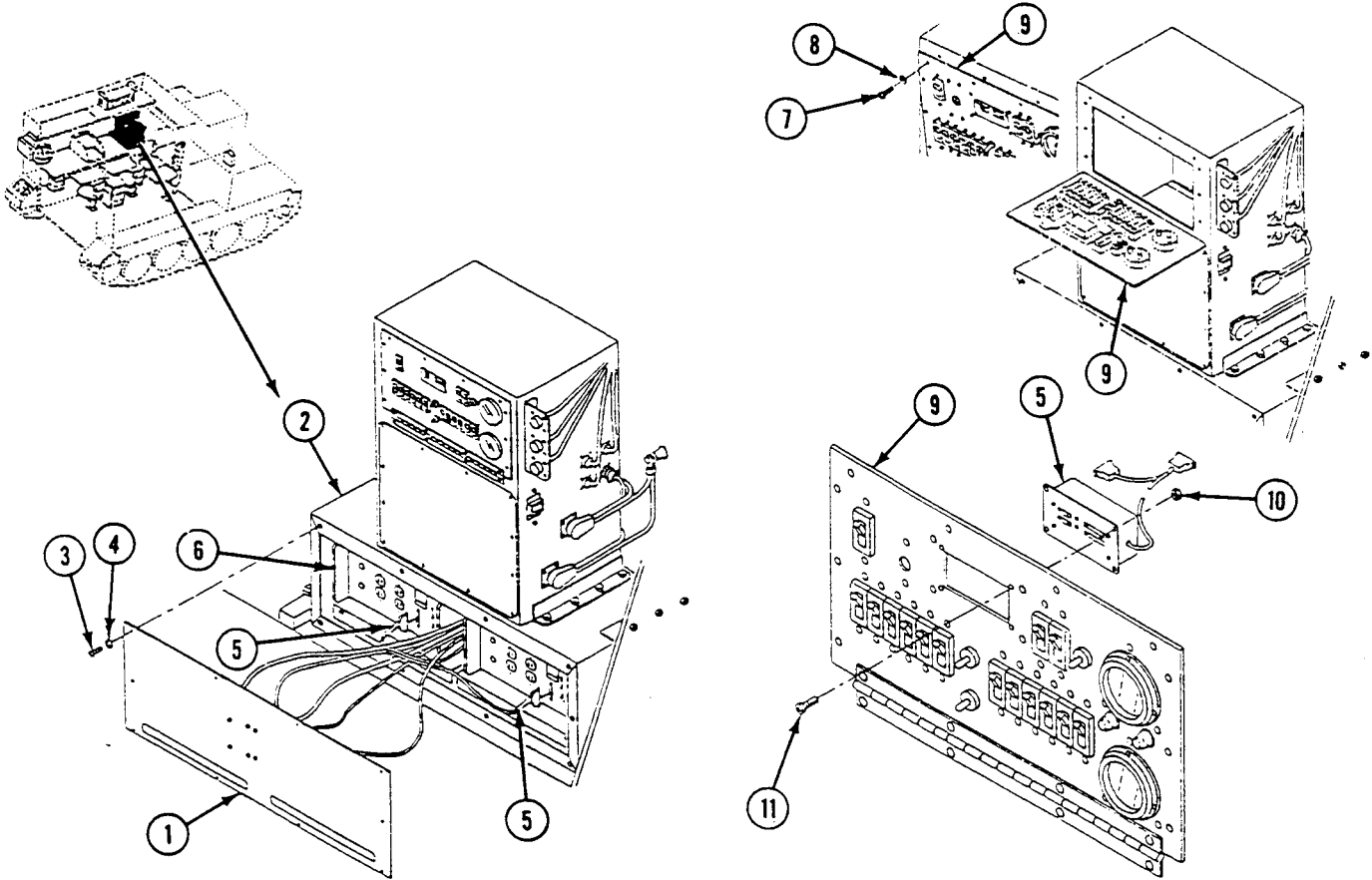
REMOVAL

1. Remove faceplate (1) on inverter housing A2 (2) by removing 10 screws (3) and lockwashers (4). Discard lockwashers.

REPLACE CASCADE REMOTE HARNESS (M1068A3 ONLY) — Continued

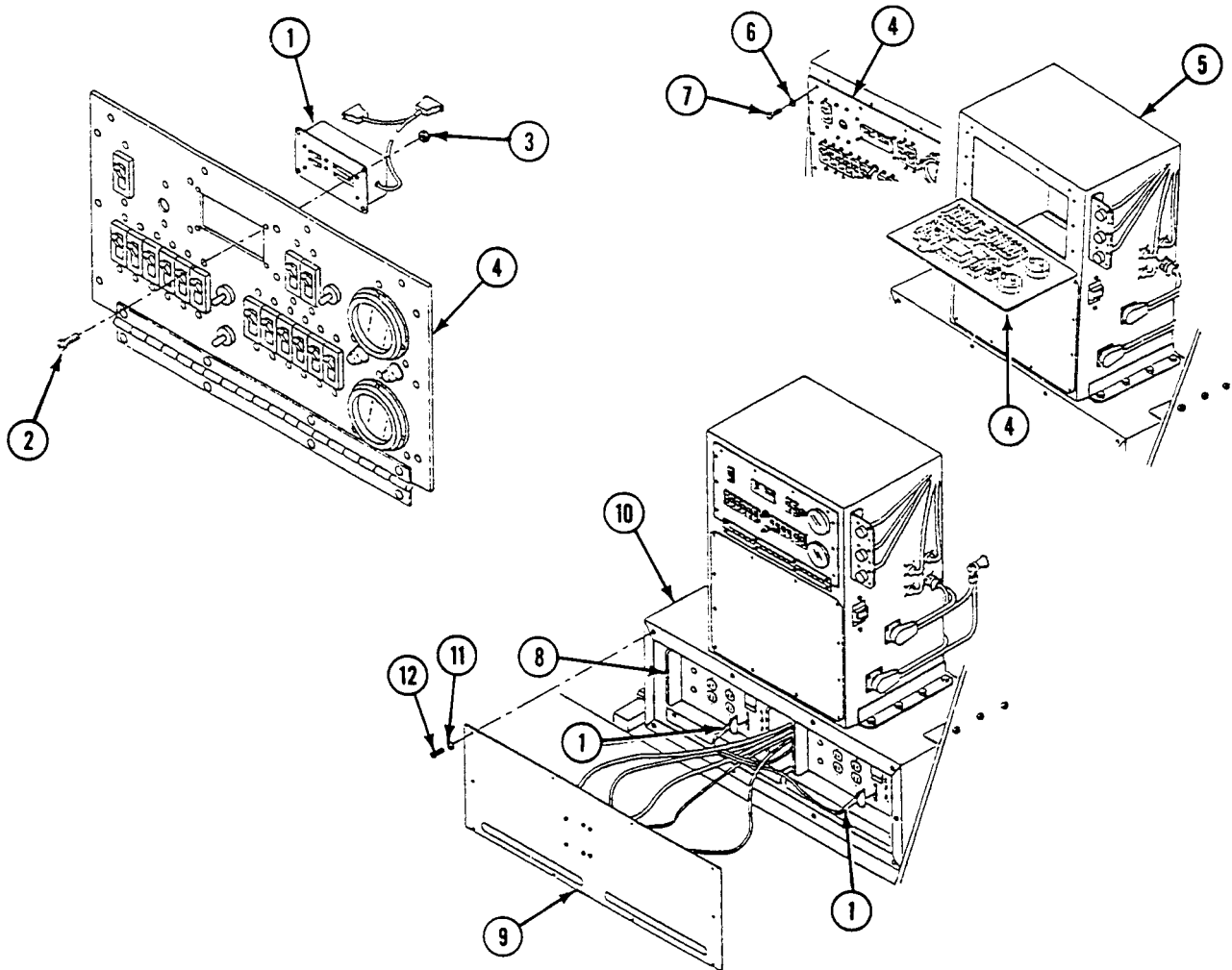
0847 00

2. Loosen captive screws on connectors and disconnect RP1 harness (5) from inverters (6).
3. Remove 10 screws (7), and lockwashers (8), from faceplate (9). Lower faceplate (9) to gain access to RP1 harness (5). Discard lockwashers.
4. Remove four locknuts (10), screws (11), and RP1 remote harness (5) from faceplate (9). Remove harness. Discard locknuts.



INSTALLATION

1. Install RP1 harness (1), four screws (2), and new locknuts (3) on faceplate (4). Route RP1 harness leads down through power enclosure (5) and behind inverter housing A2 to front face of inverters. Avoid interfering with other components in power enclosure.
2. Lift faceplate (4) in place and install 10 new lockwashers (6) and screws (7).
3. Connect RP1 harness (1) to front of inverters (8). Tighten captive screws on connectors.
4. Install face plate (9) on front of inverter housing A2 (10) with 10 new lockwashers (11) and screws (12).



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

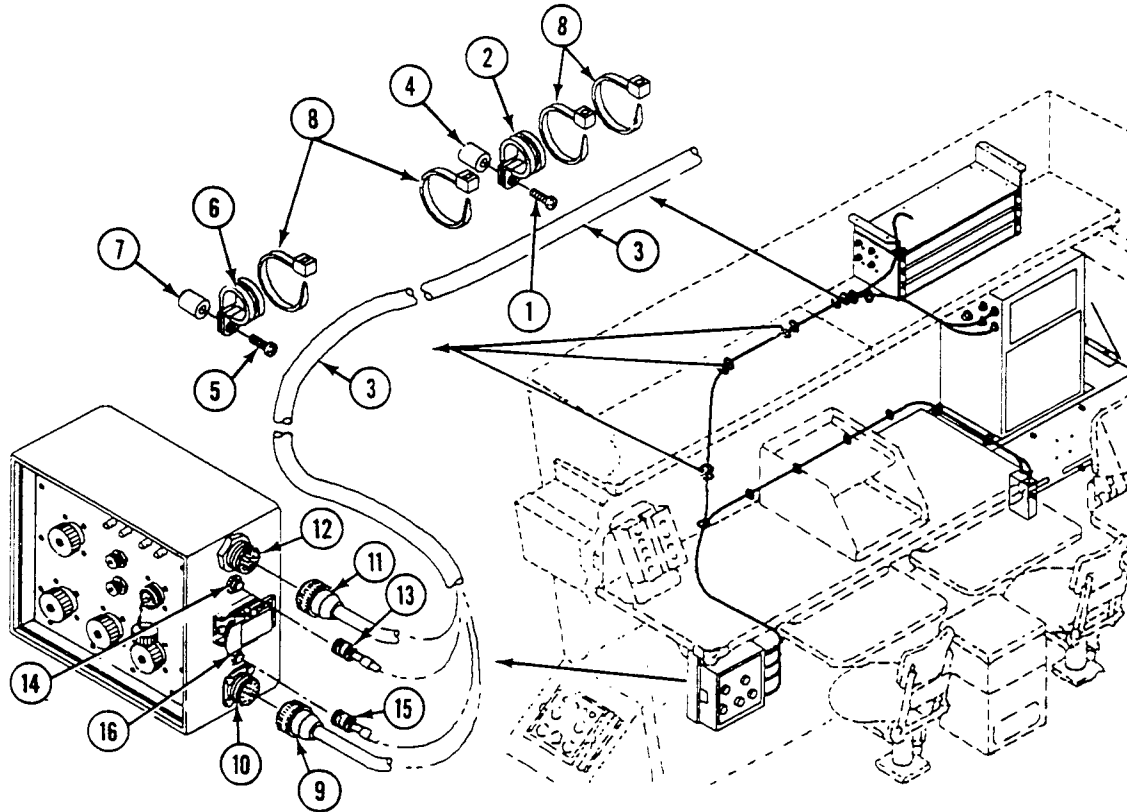
REMOVAL

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

REPLACE HARNESS W32 (M1068A3 ONLY) — Continued

0848 00

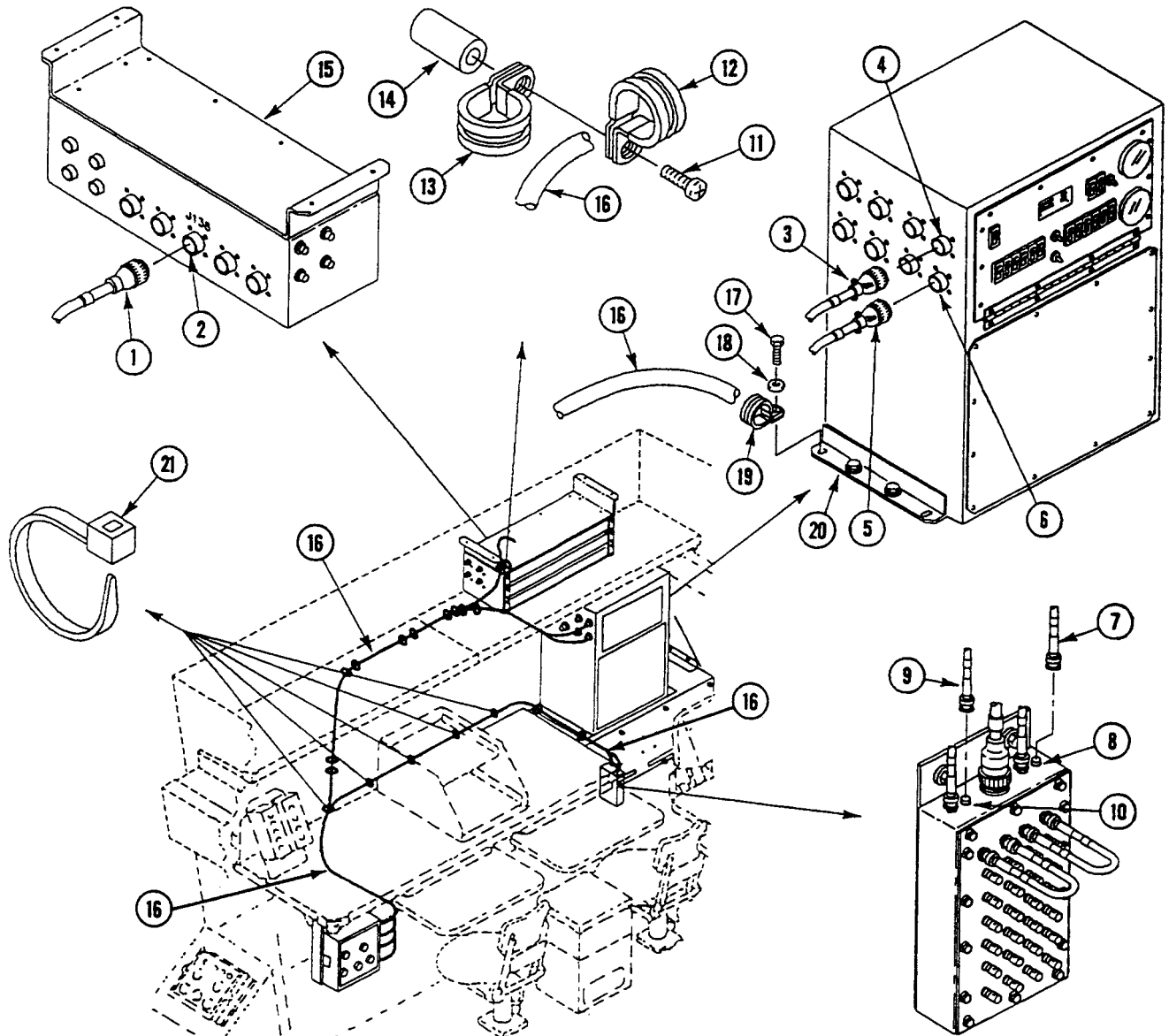
2. Remove three screws (5) and clamps (6) from W32 harness (3) and weldnuts (7).
3. Remove six straps (8) from W32 harness (3). Discard straps.
4. Disconnect W32 harness plug P6 (9) from tent interface panel box A5 jack J7 (10).
5. Disconnect W32 harness plug P7 (11) from tent interface panel box A5 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

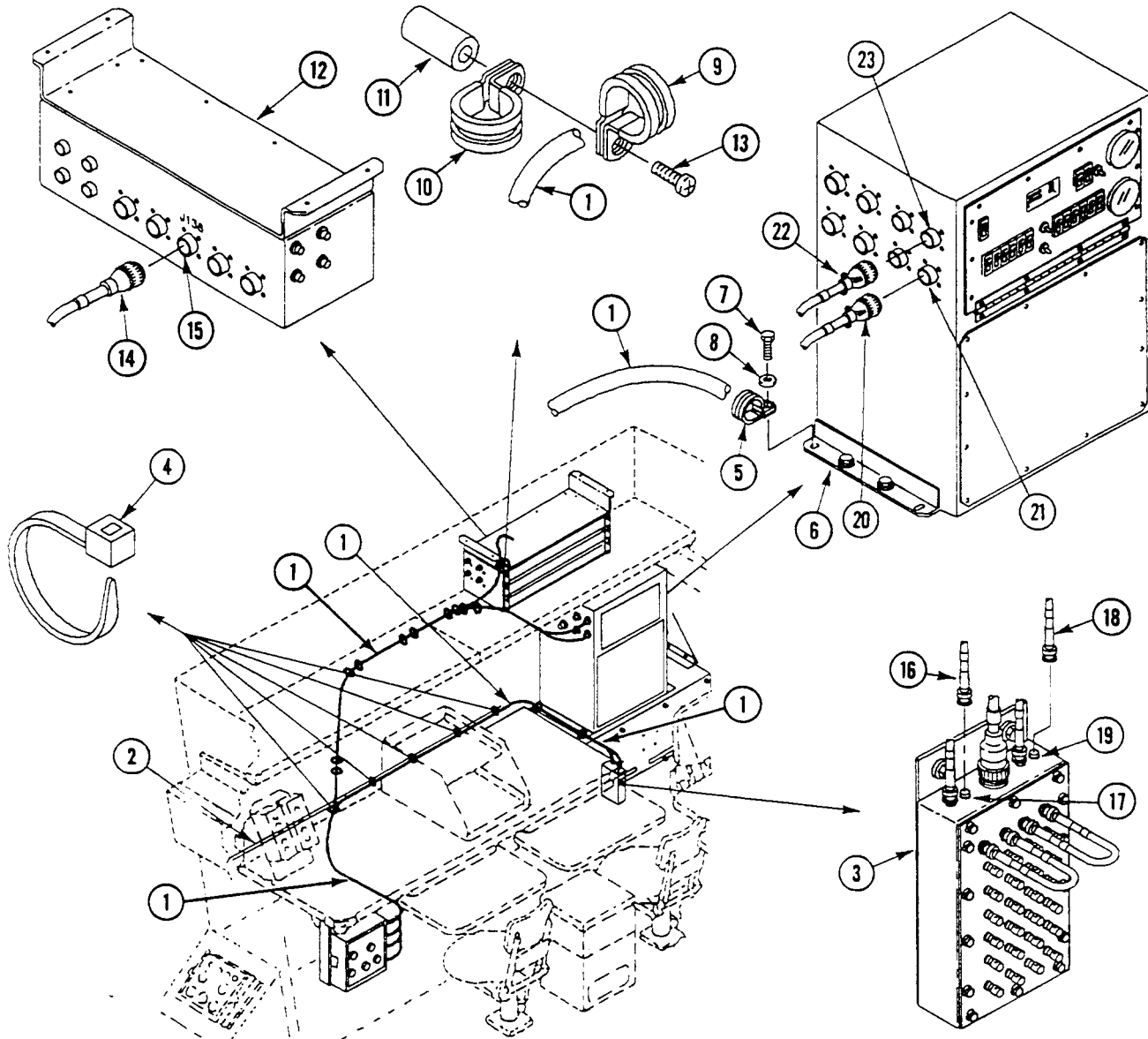
0848 00

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

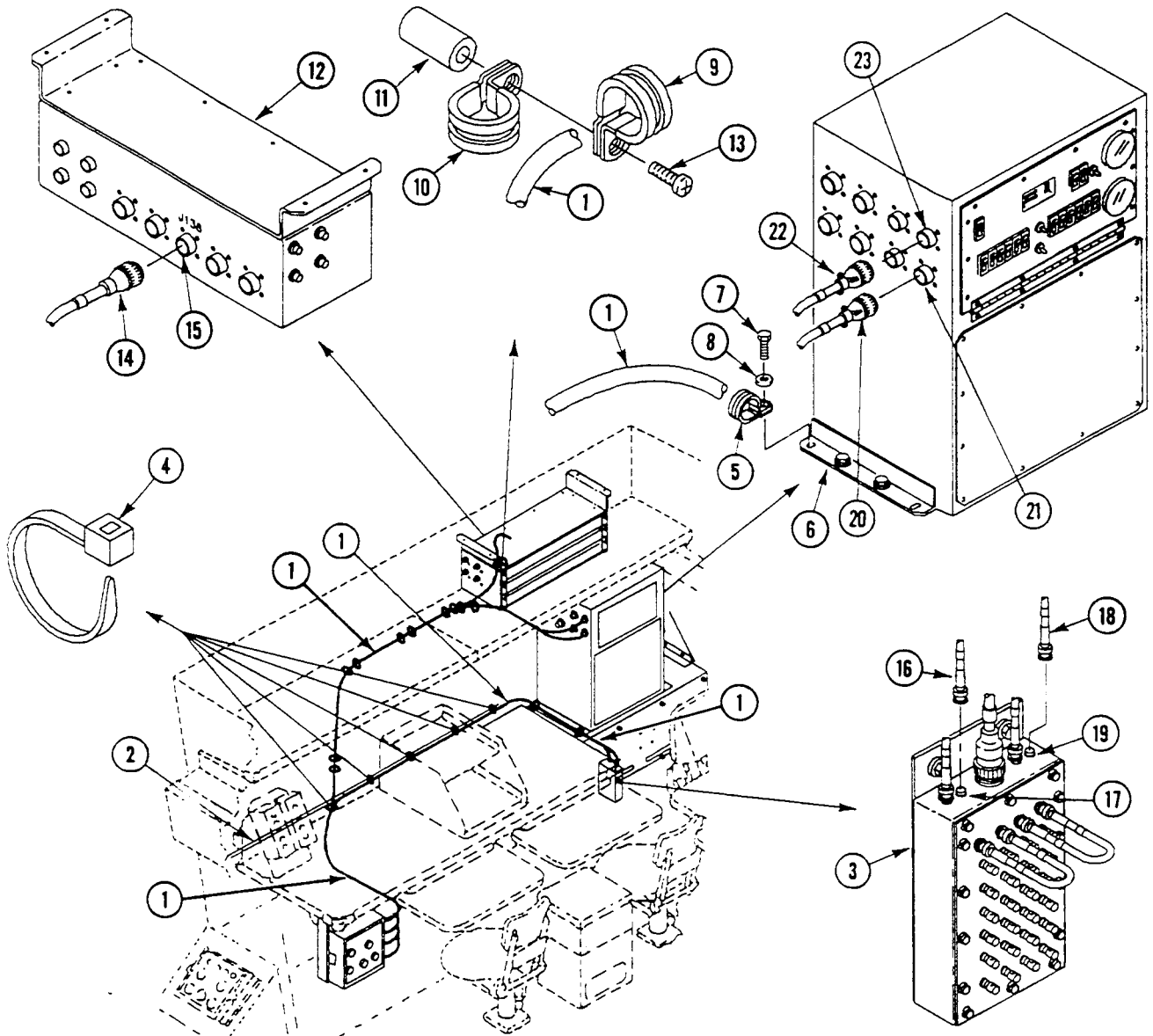
1. Route branch of W32 harness (1) along fuel line (2) to data panel assembly A13 (3). Secure W32 harness with five new straps (4).
2. Install two clamps (5) on W32 harness (1) and secure to power control enclosure A1 (6) with two screws (7) and washers (8).
3. Install clamp (9) on W32 harness (1) and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



REPLACE HARNESS W32 (M1068A3 ONLY) — Continued

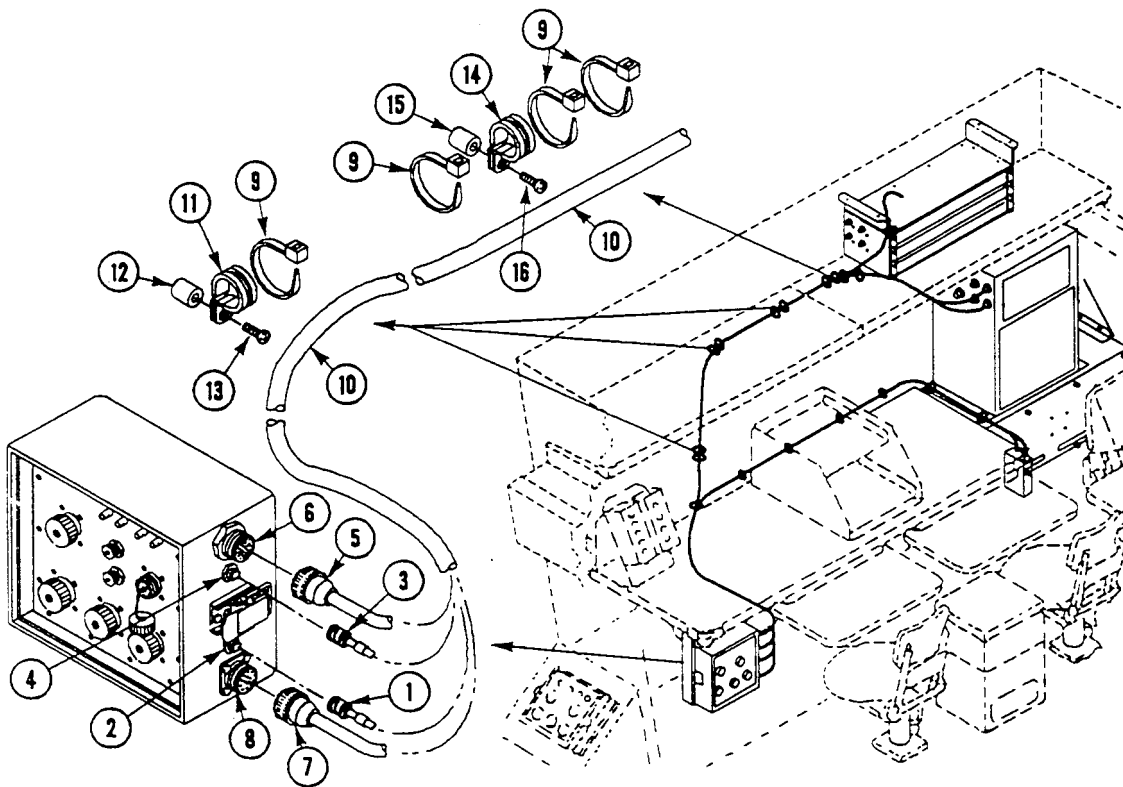
0848 00

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

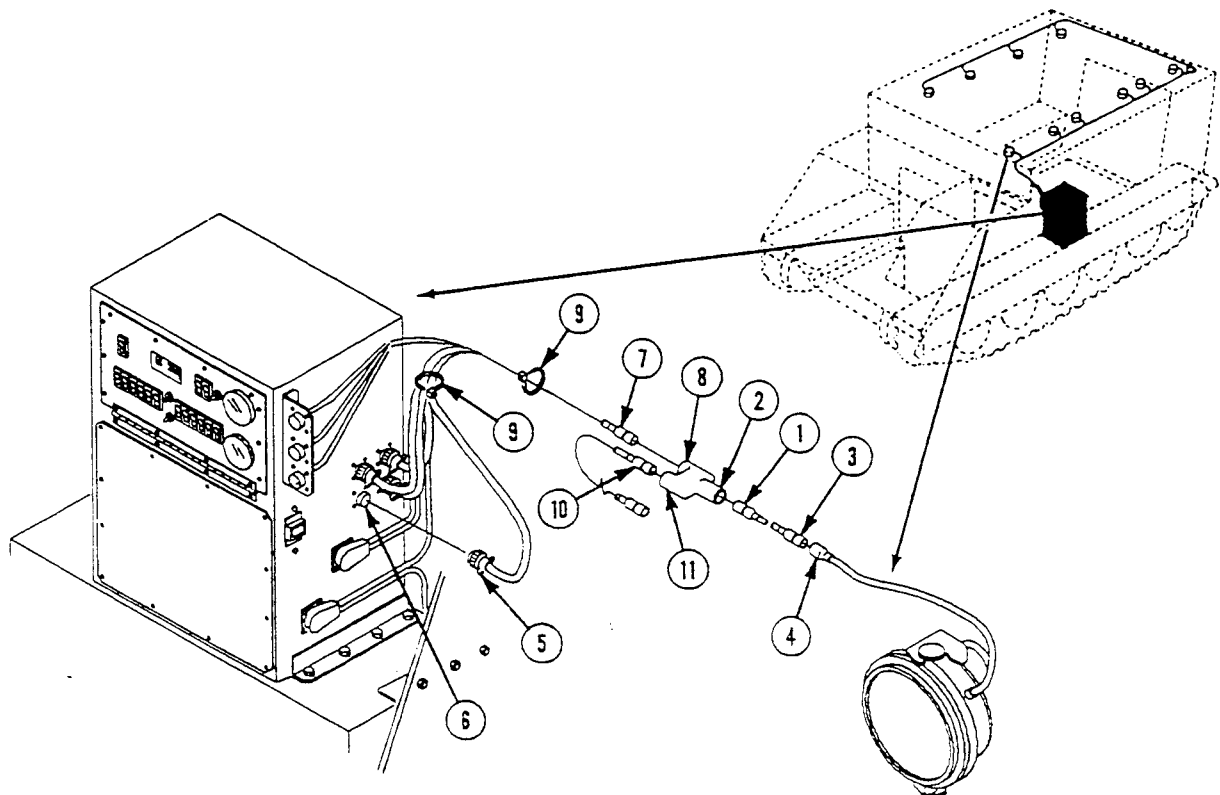
Strap (5)

Personnel Required

Power-Generation Equipment Repairer 52D10

REMOVAL

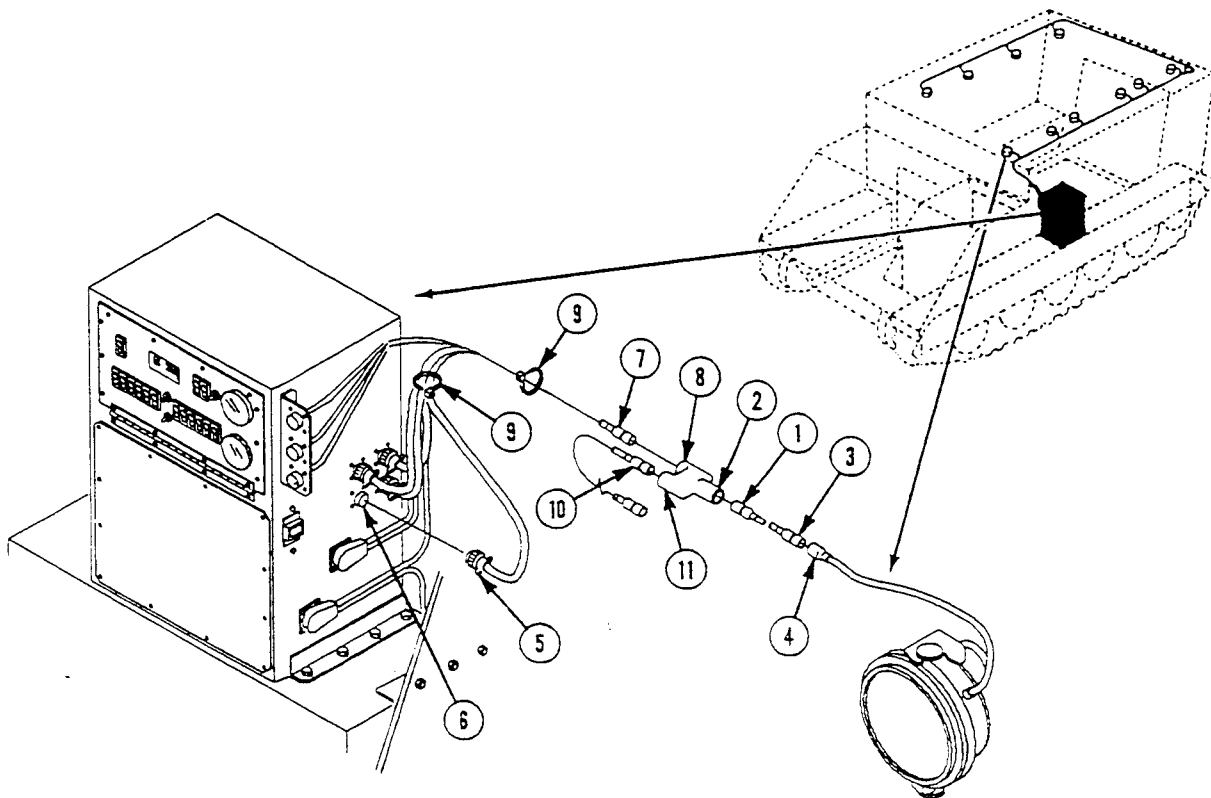
1. Disconnect cable plug W28P1 (1) from connector adapter plug T1P1 (2).
2. Disconnect cable plug W28P2 (3) from circuit 38B lead (4).



**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).

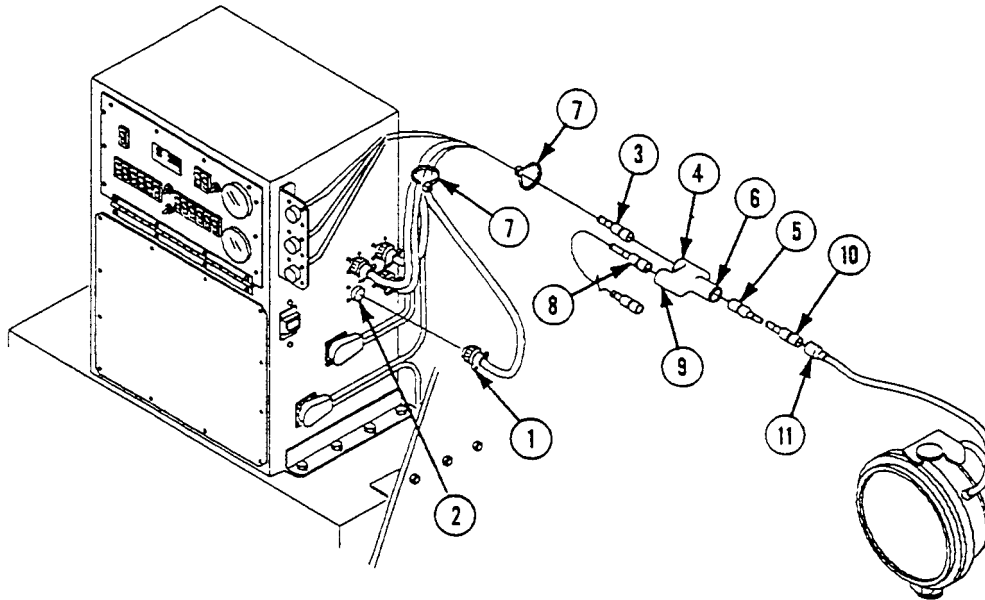


REPLACE CABLE W35, CABLE W28, AND CABLE ADAPTER (M1068A3 ONLY) —
Continued

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

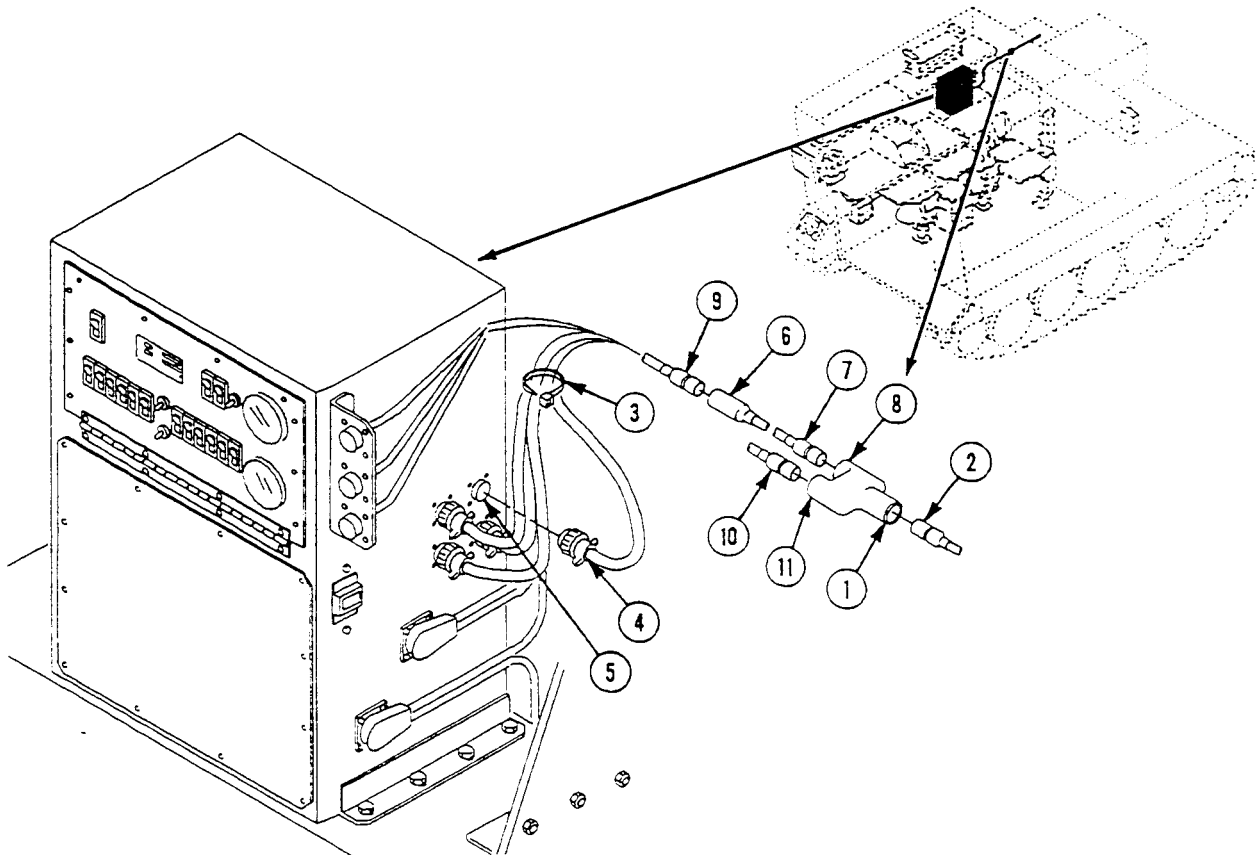
Strap

Personnel Required

Power-Generation Equipment Repairer 52D10

REMOVAL

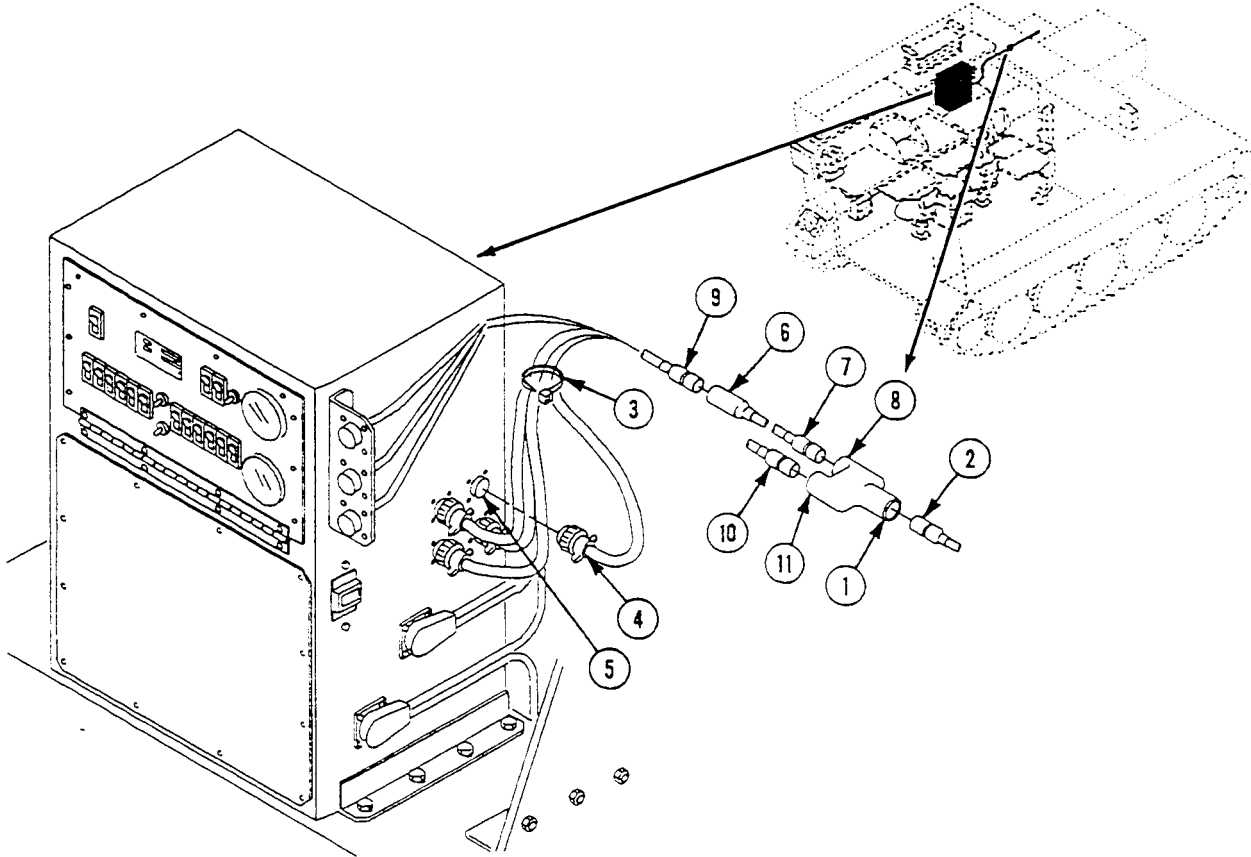
1. Disconnect connector adapter plug T2P1 (1) from circuit 415 lead (2).
2. Remove strap (3) from cables.



**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).

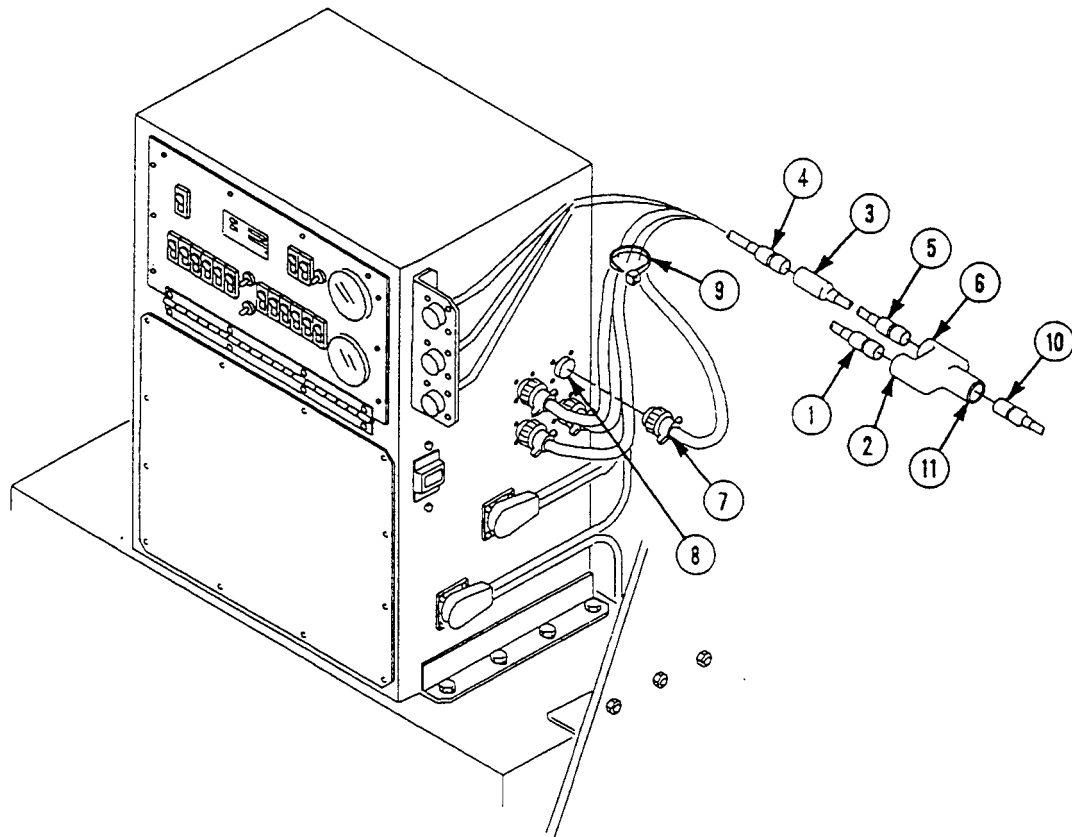


REPLACE CABLE W38, CABLE W29, AND CABLE ADAPTER (M1068A3 ONLY) —
Continued

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

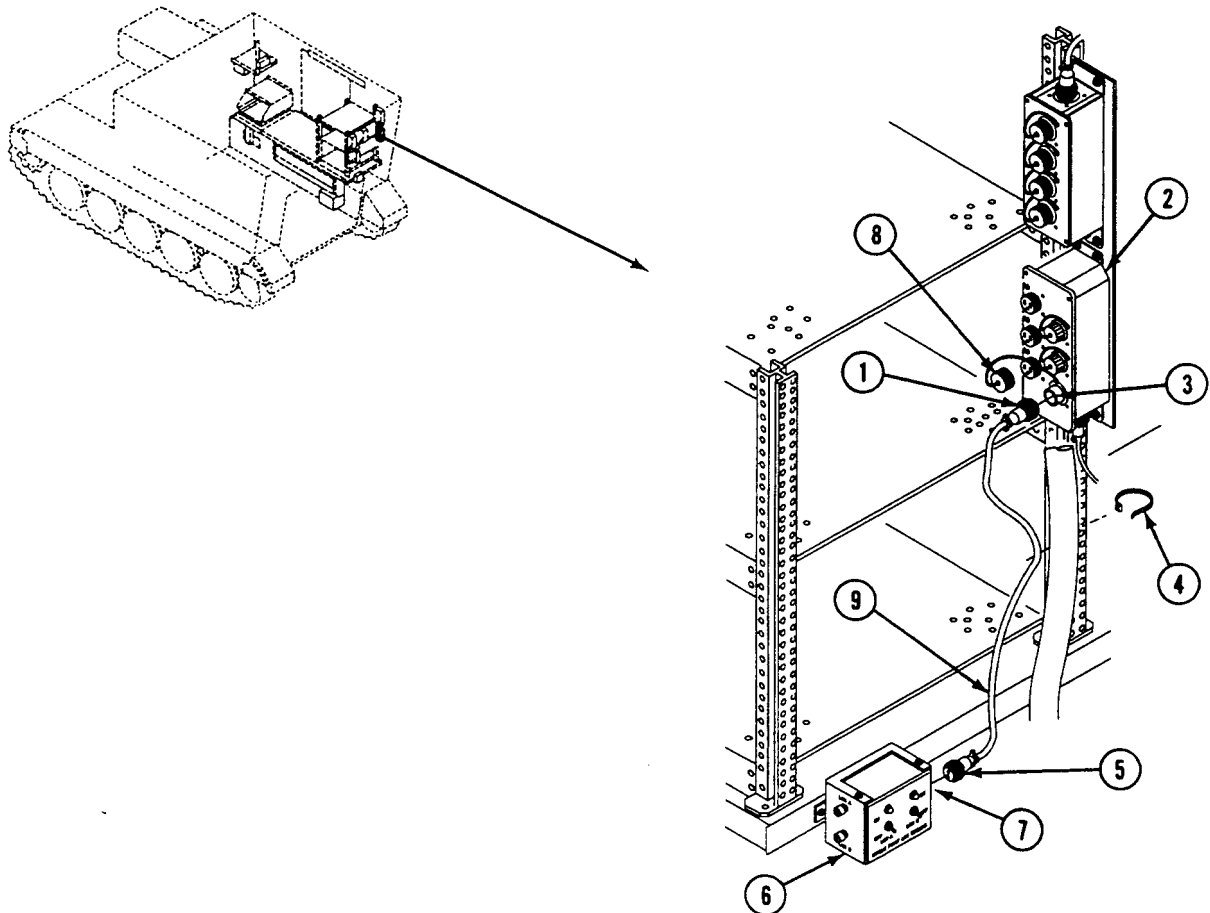
See your -10
 TM 11-7010-256-12&P

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)

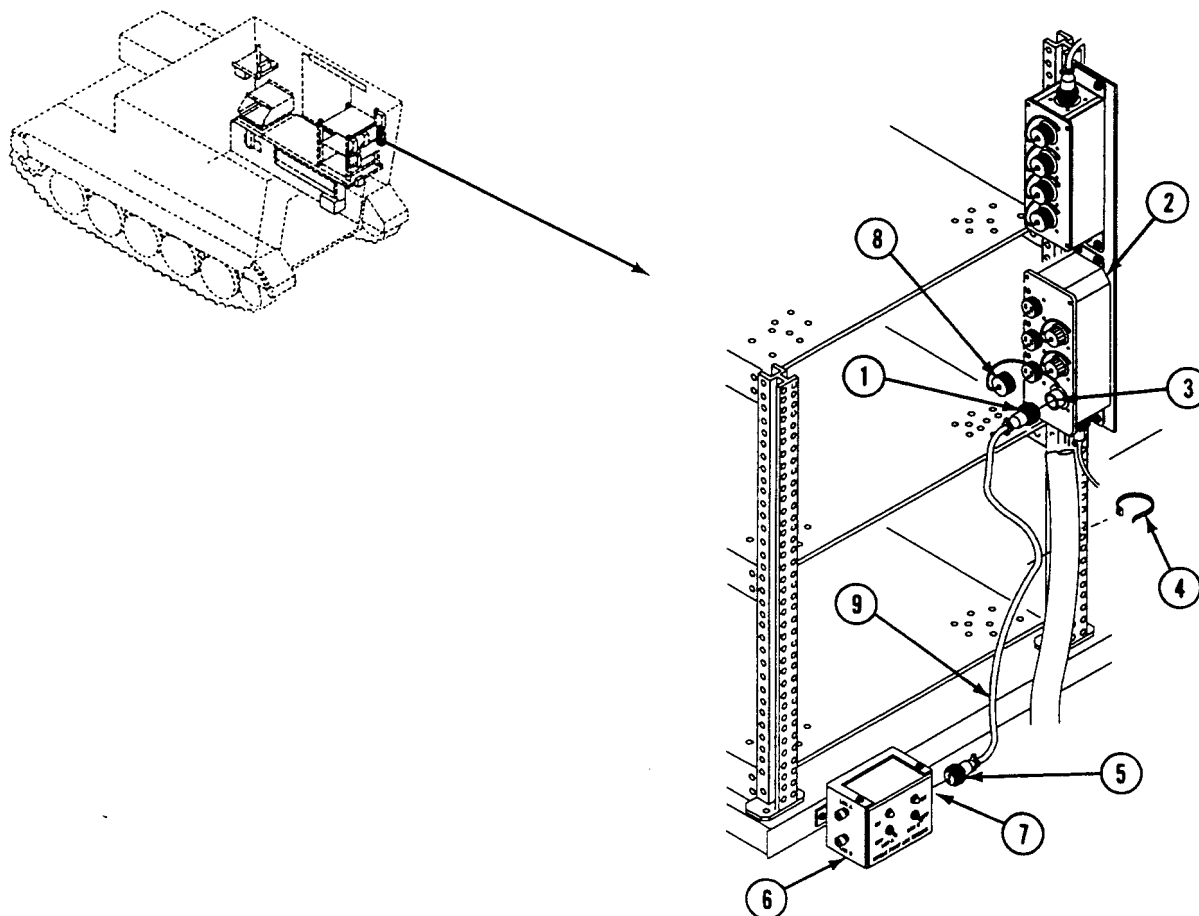
REMOVAL

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



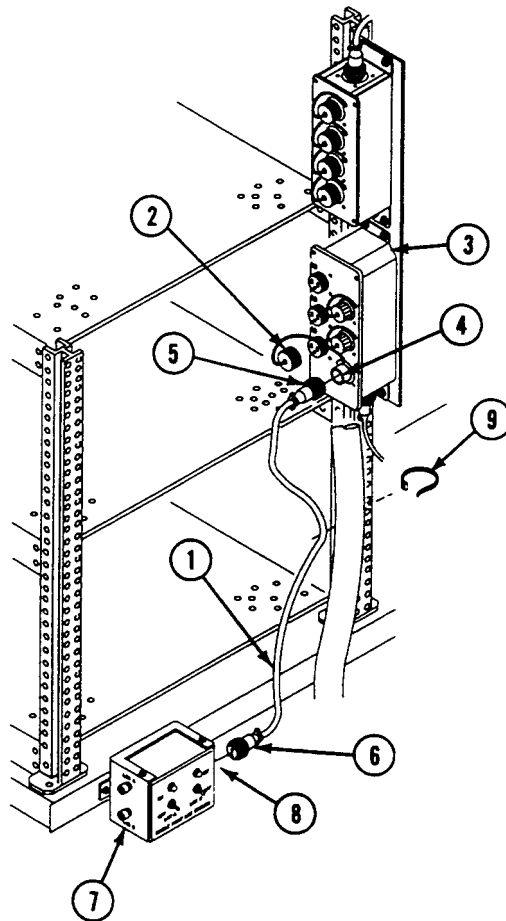
REPLACE SINGLE POINT LAN CABLE (W40) (M1068A3 ONLY) — Continued**0851 00**

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

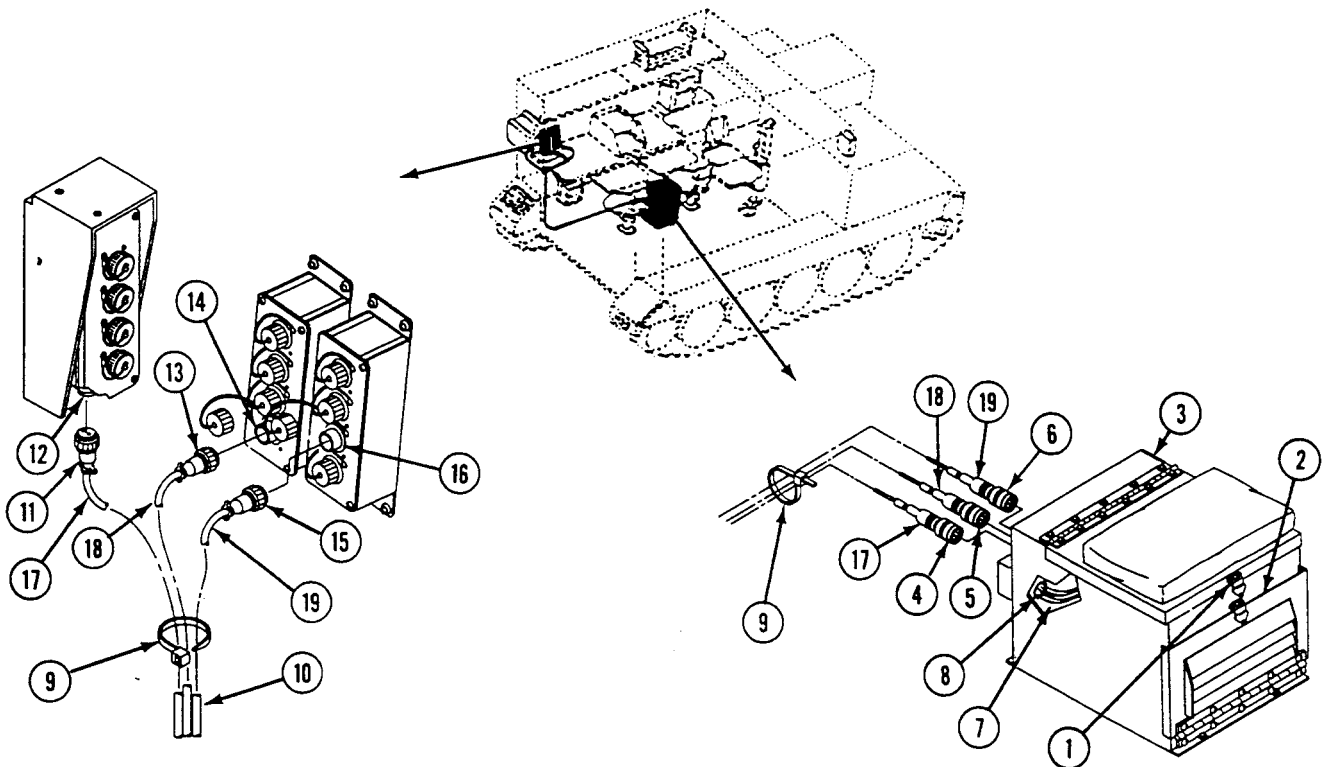
Strap (6)

Personnel Required

Power-Generation Equipment Repairer 52D10

REMOVAL

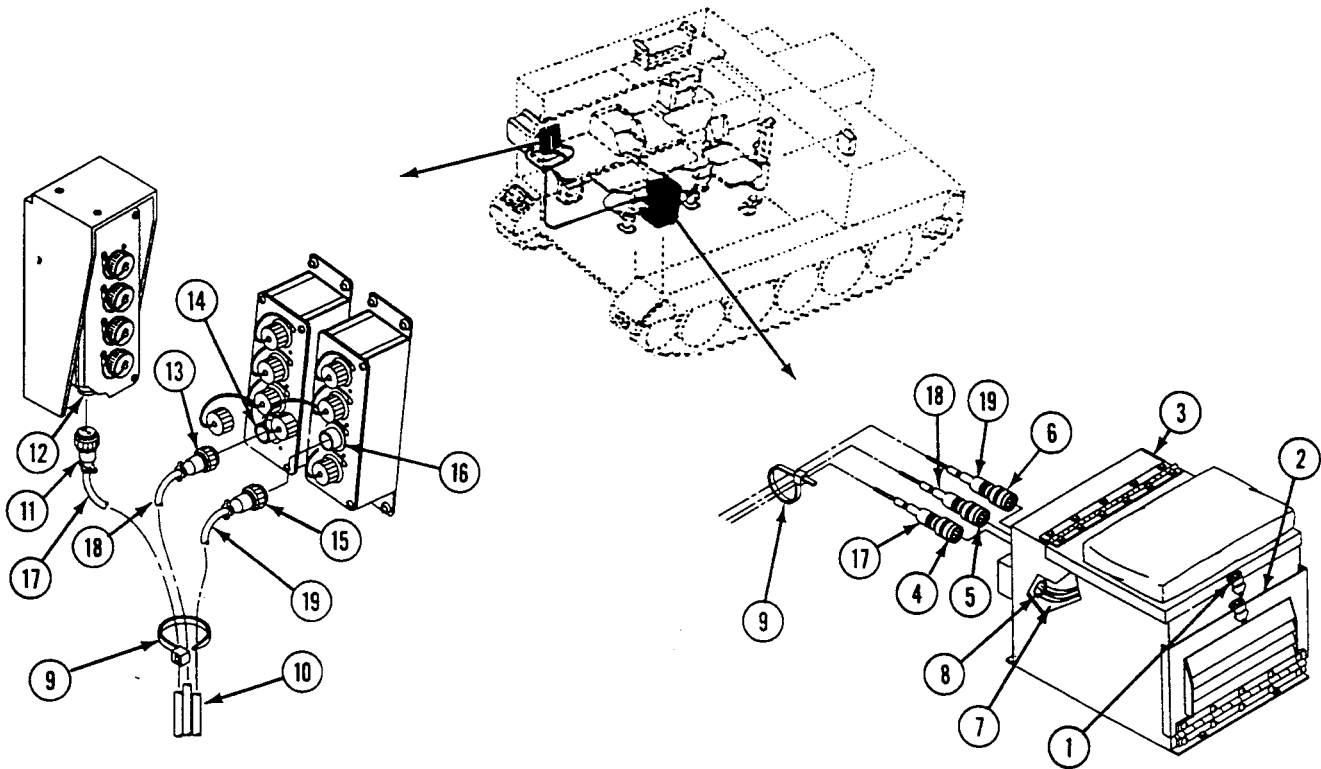
1. Release catch (1) and open cover (2) on power supply storage box (3).



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

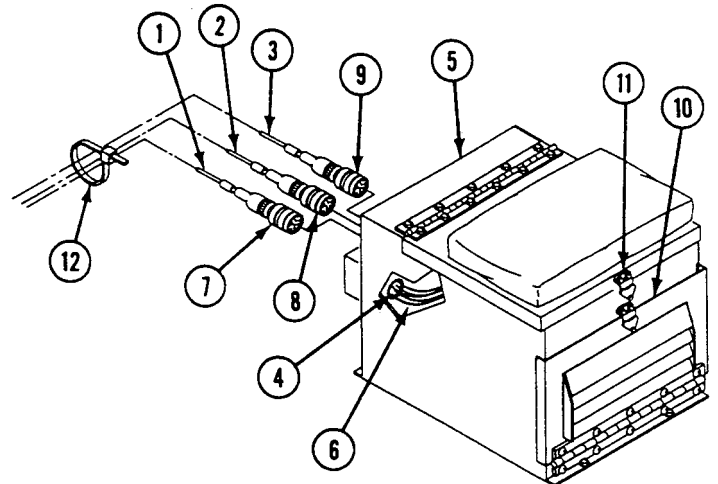
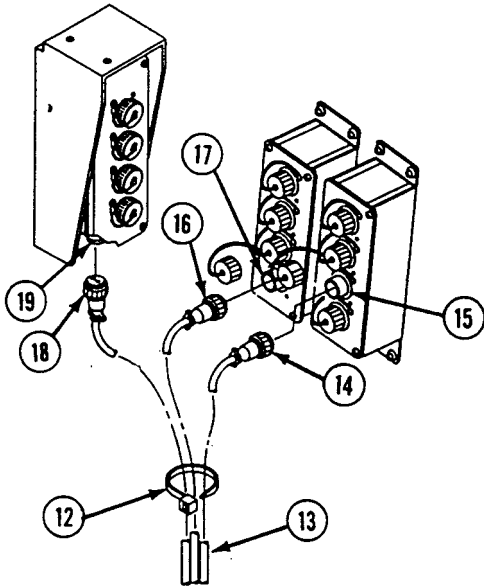
0852 00

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

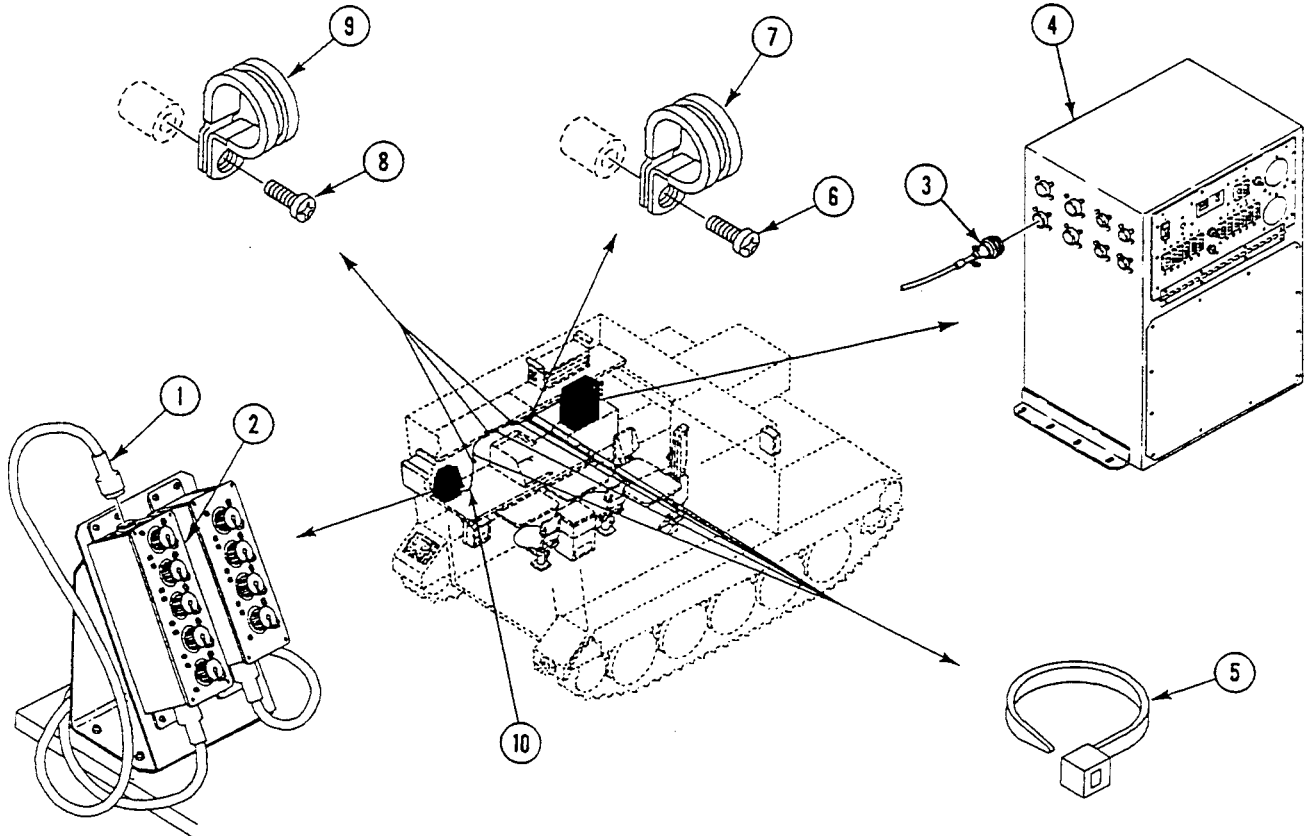
Strap (6)

Personnel Required

Power-Generation Equipment Repairer 52D10

REMOVAL

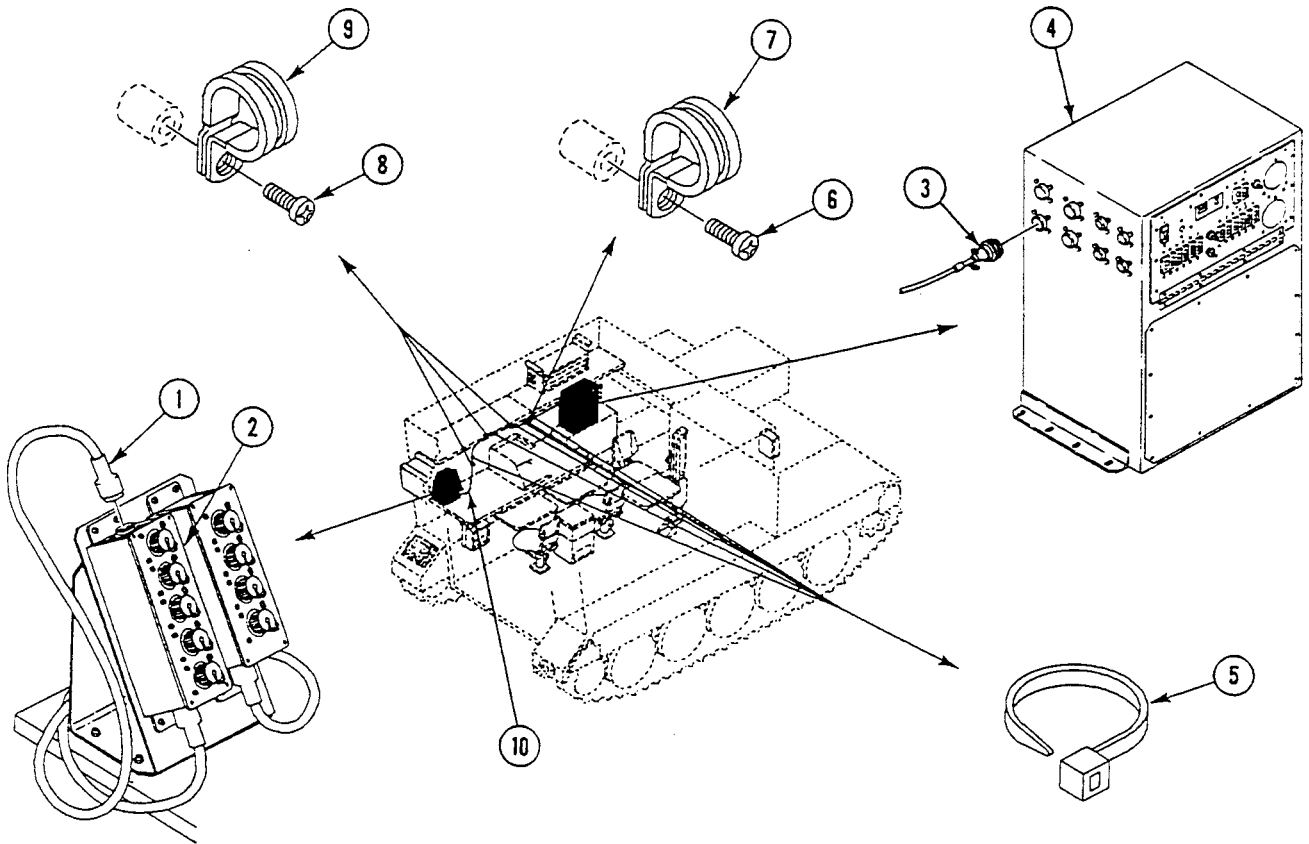
1. Disconnect cable plug W45P1 (1) from DC power extension box jack A9J2 (2).



REPLACE CABLE W45 (M1068A3 ONLY) — Continued

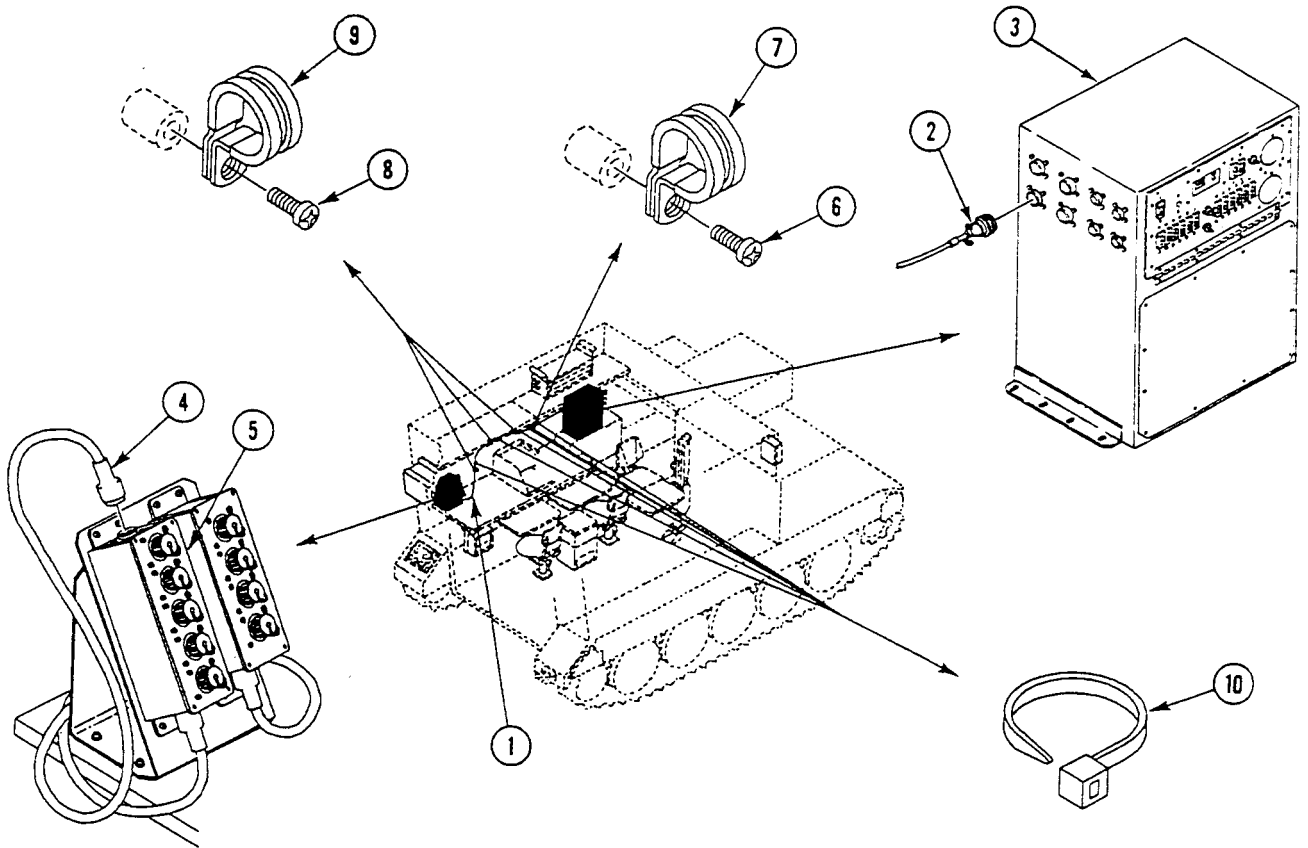
0853 00

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

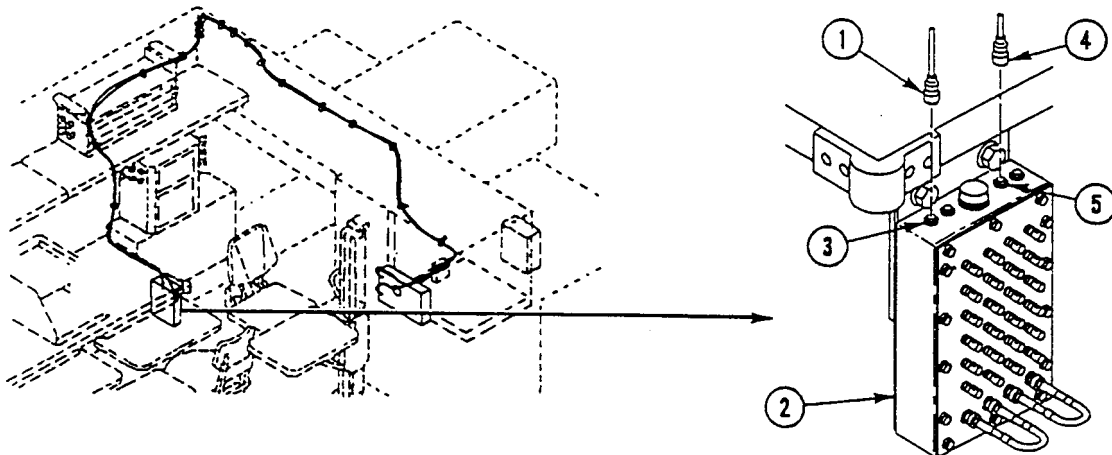
Unit Level Communications Maintainer 31V10

REMOVAL

NOTE

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

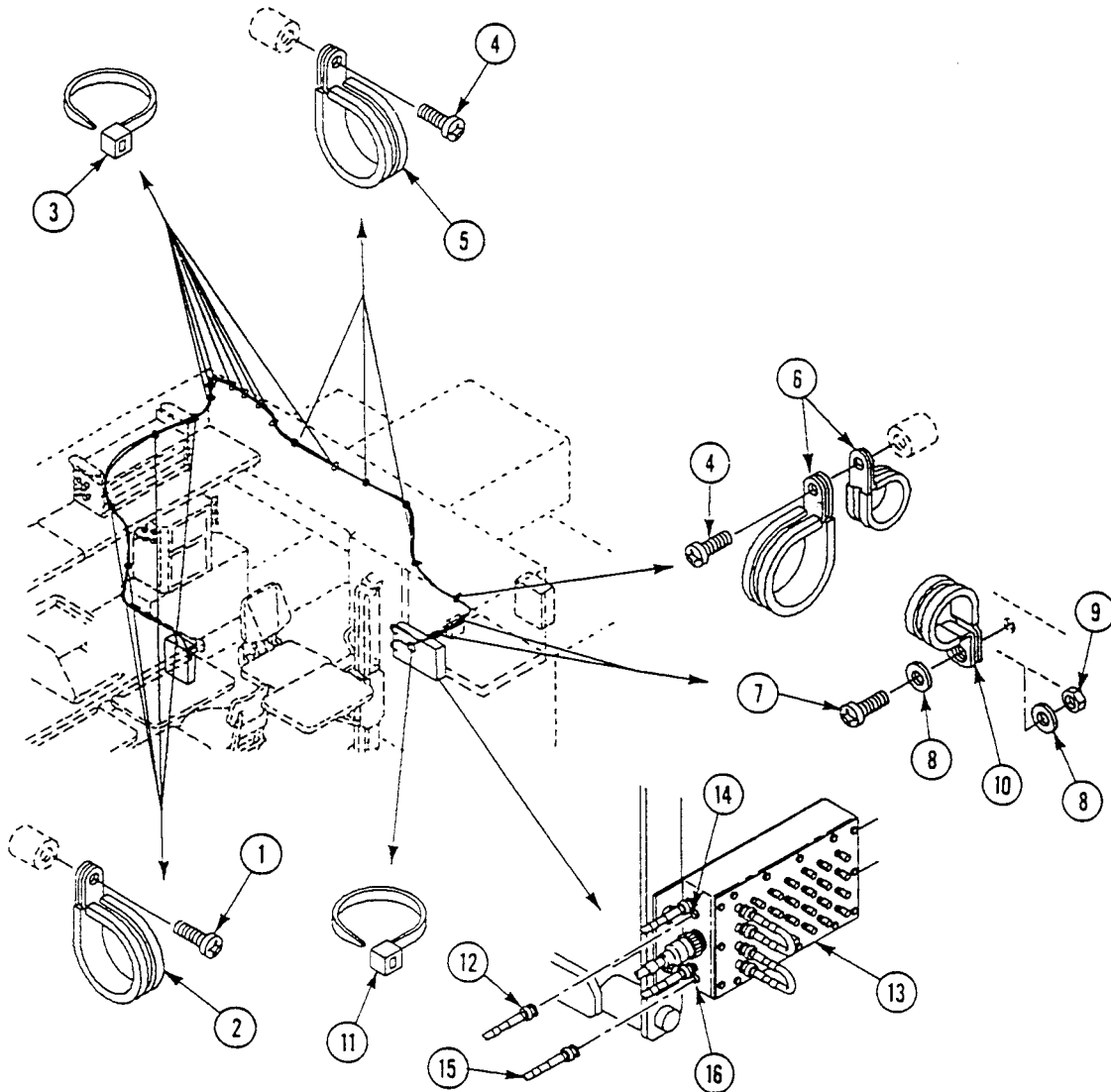
1. Remove cable W103 plug P2 (1) from roadside data box A13 (2) jack J5 (3) or W104 plug P2 (4) from roadside data box A13 (2) jack J2 (5).



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

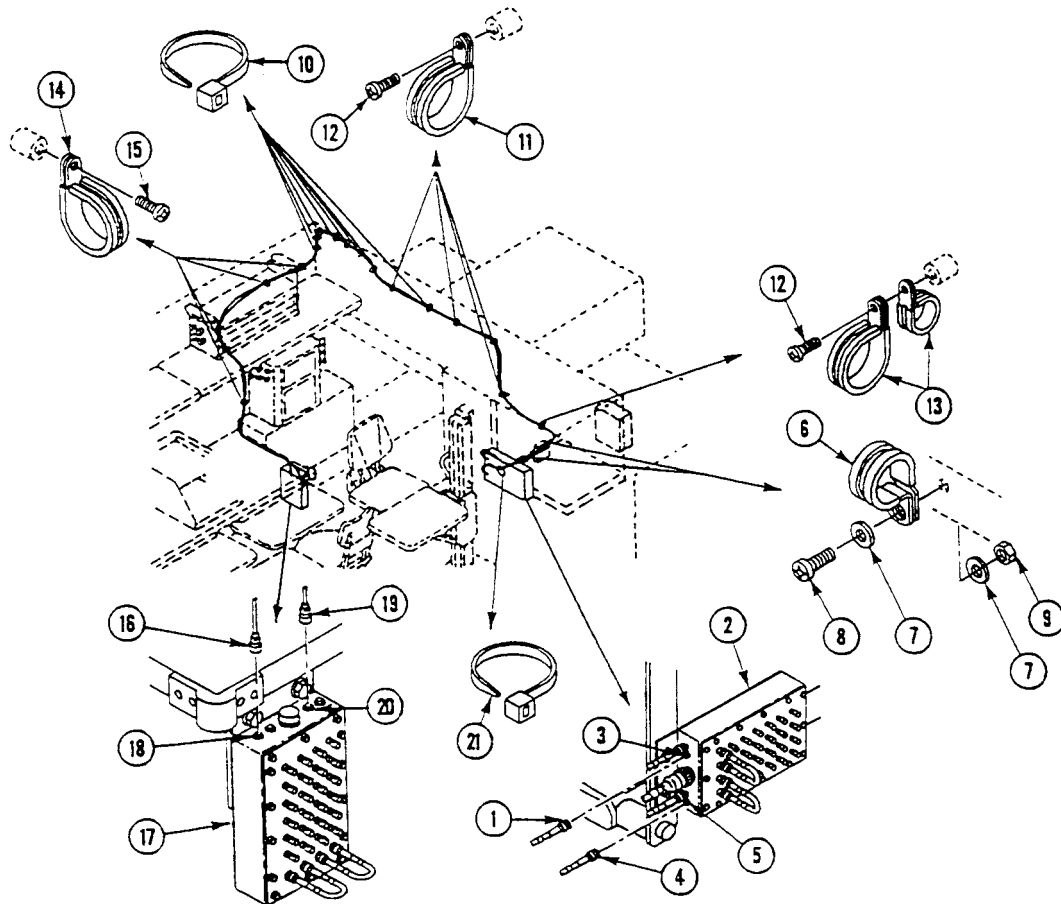
0854 00

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

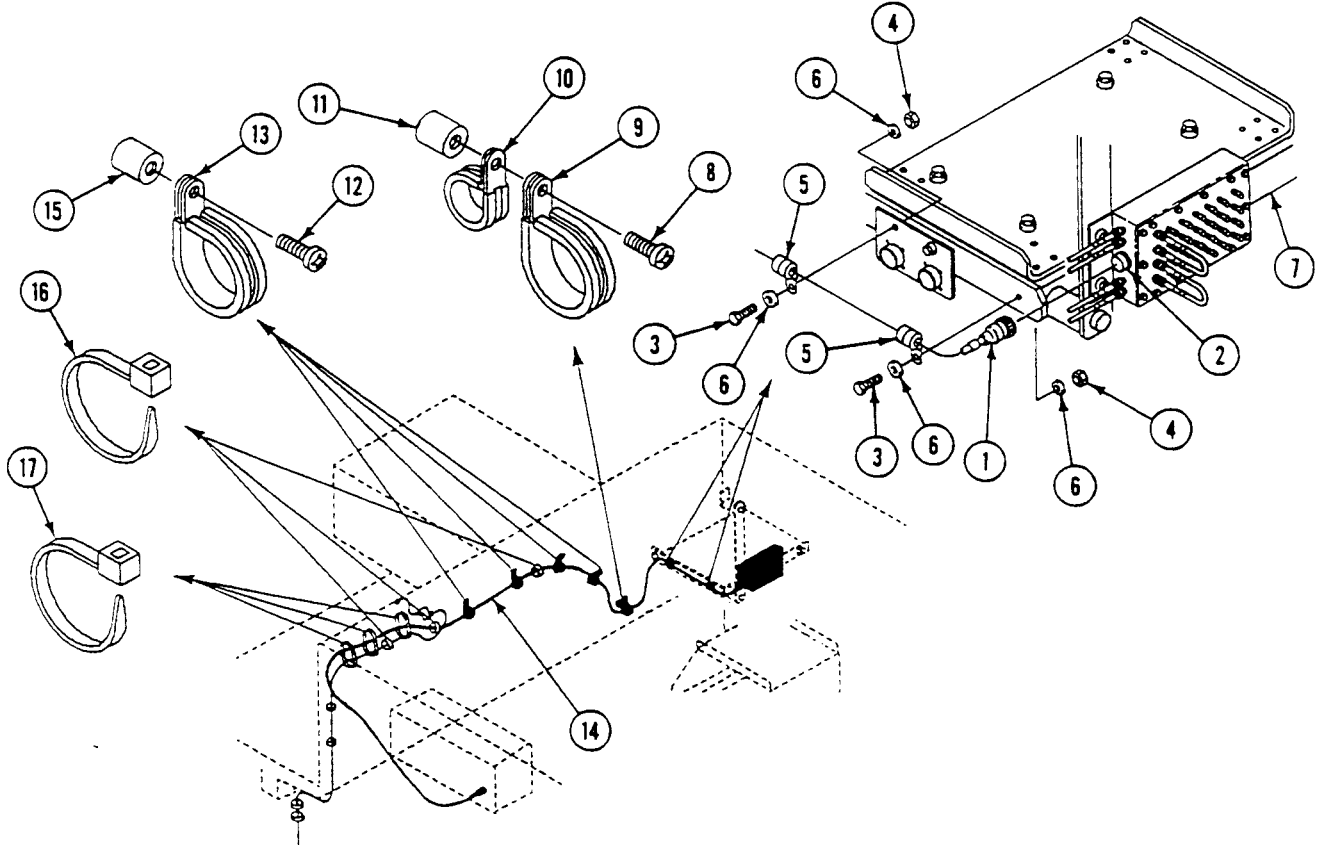
Locknut (2)
 Strap (6)

Equipment Condition

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

REMOVAL

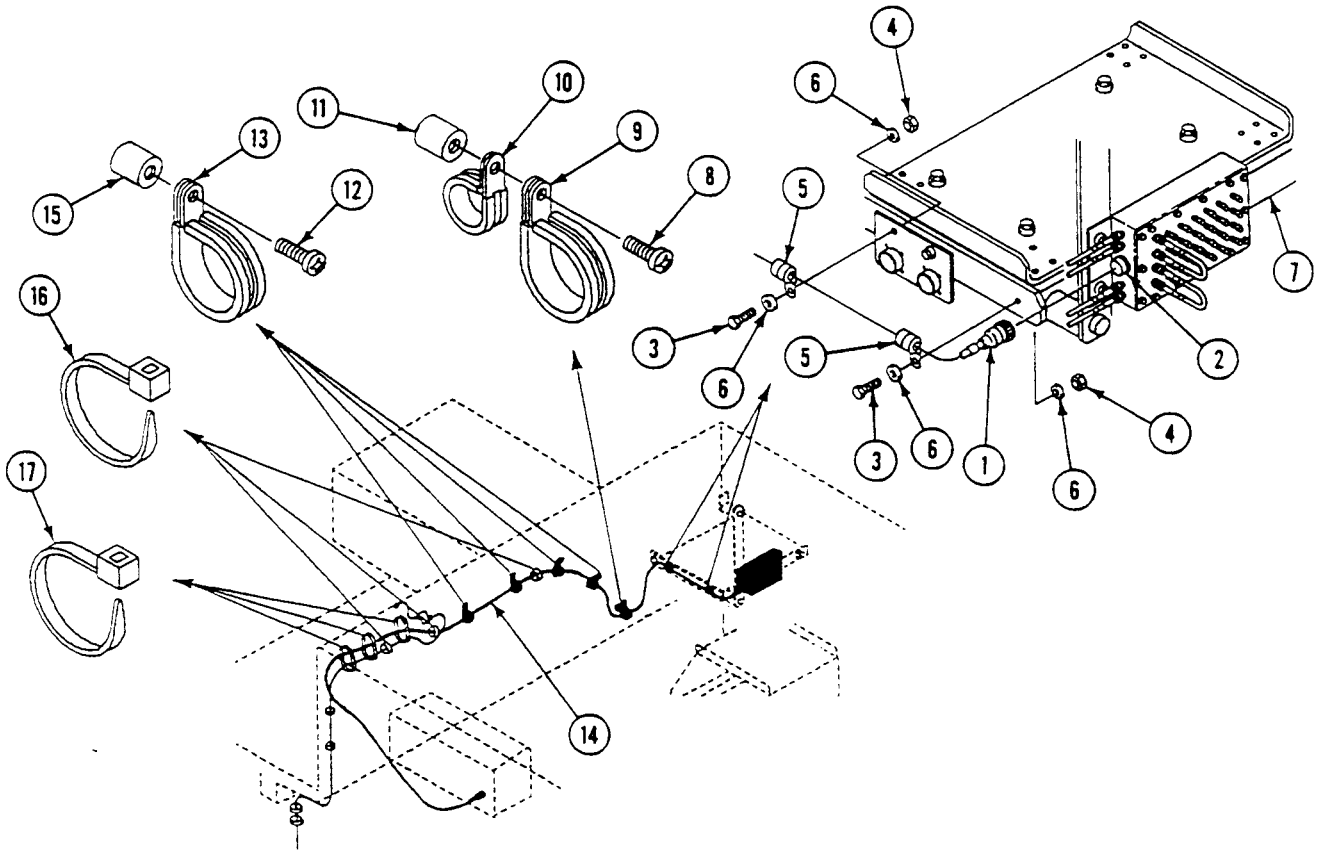
1. Disconnect cable W124 plug P1 (1) from Data Panel Assembly A12 jack J3 (2).



REPLACE CABLE W124 (M1068A3 ONLY) — Continued

0855 00

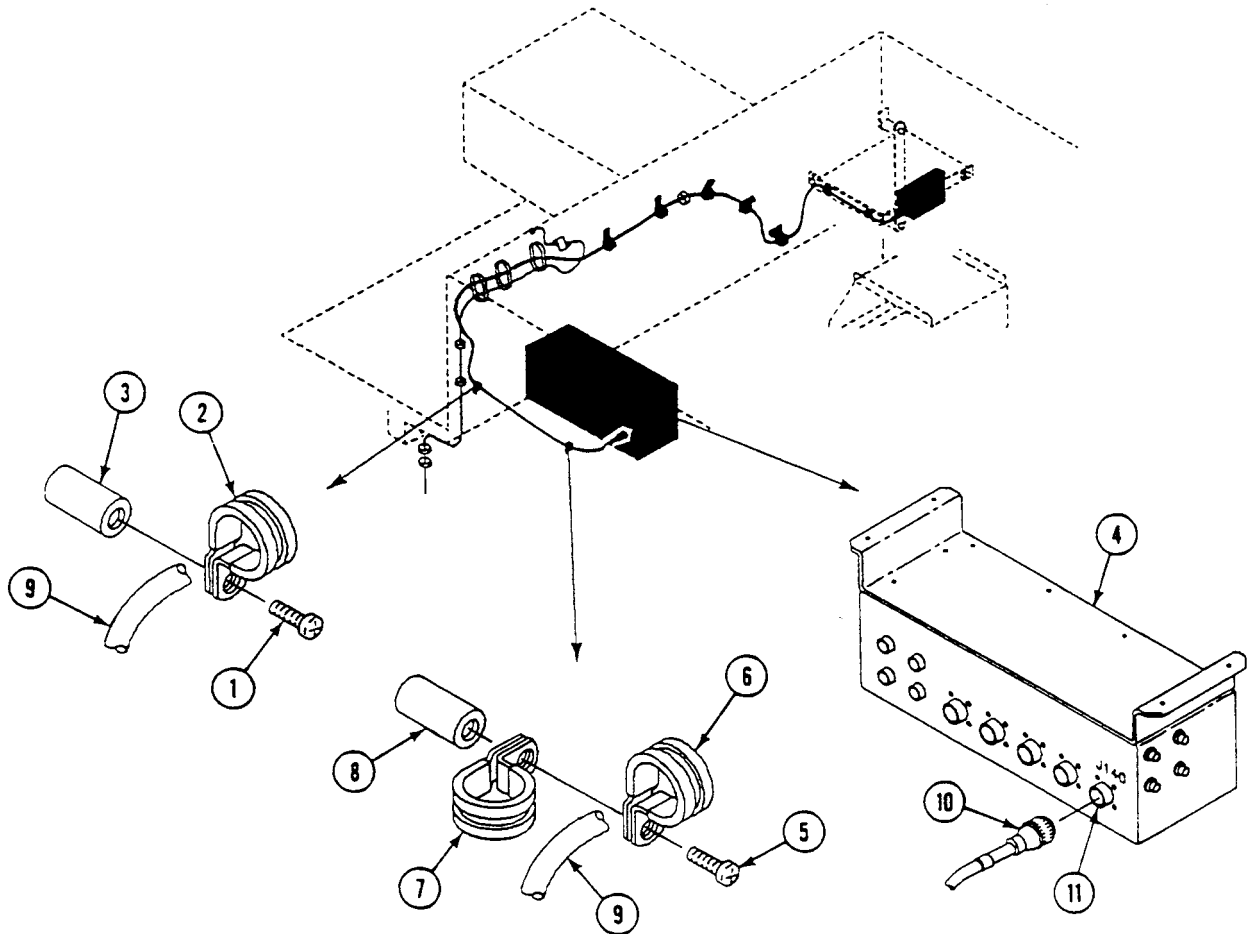
2. Remove two screws (3), locknuts (4), clamps (5), and four washers (6) from APIU rack (7). Discard locknuts.
3. Remove screw (8), clamp (9), and clamp (10) from weldnut (11).
4. Remove four screws (12) and clamps (13) from cables (14) and weldnuts (15).
5. Remove three straps (16) from cables (14).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

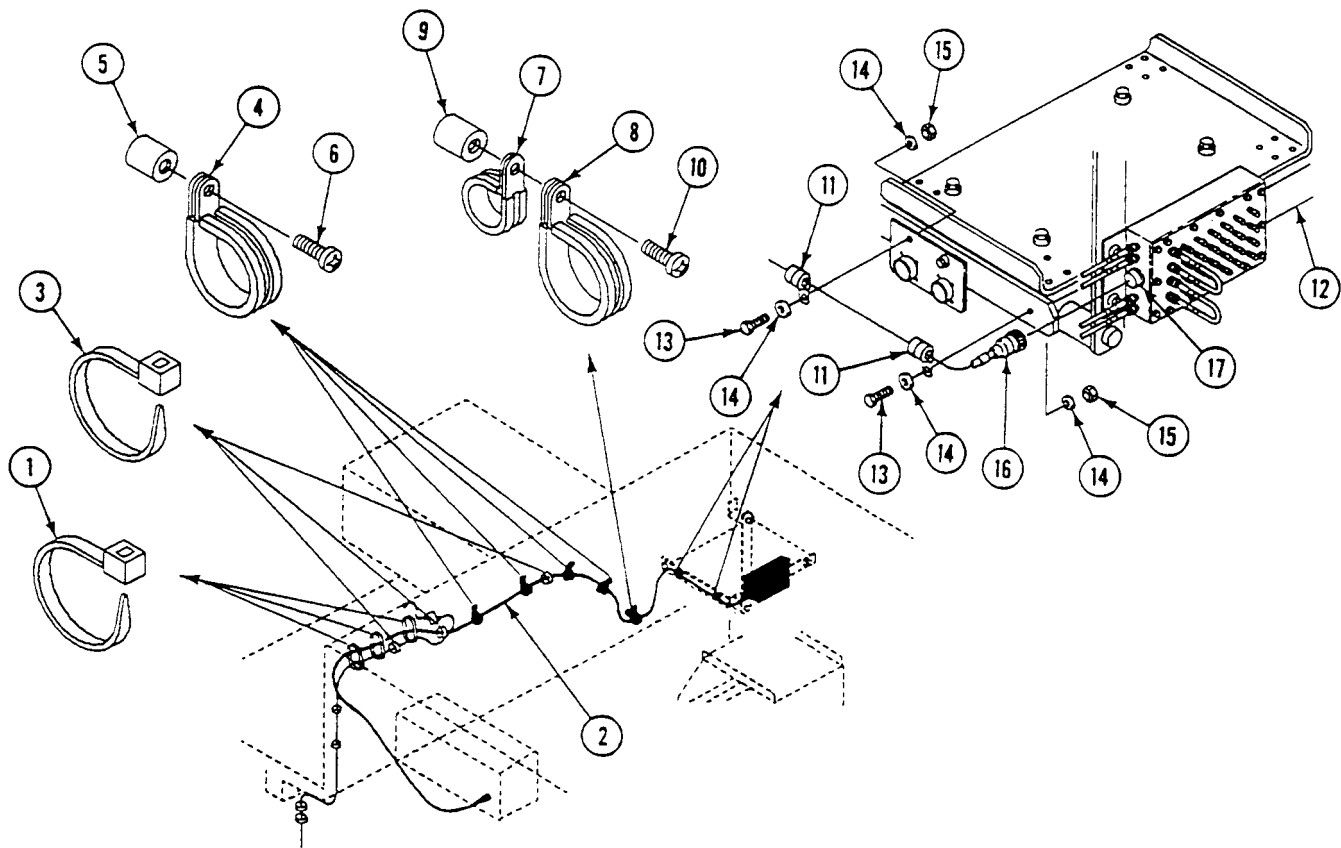
INSTALLATION

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

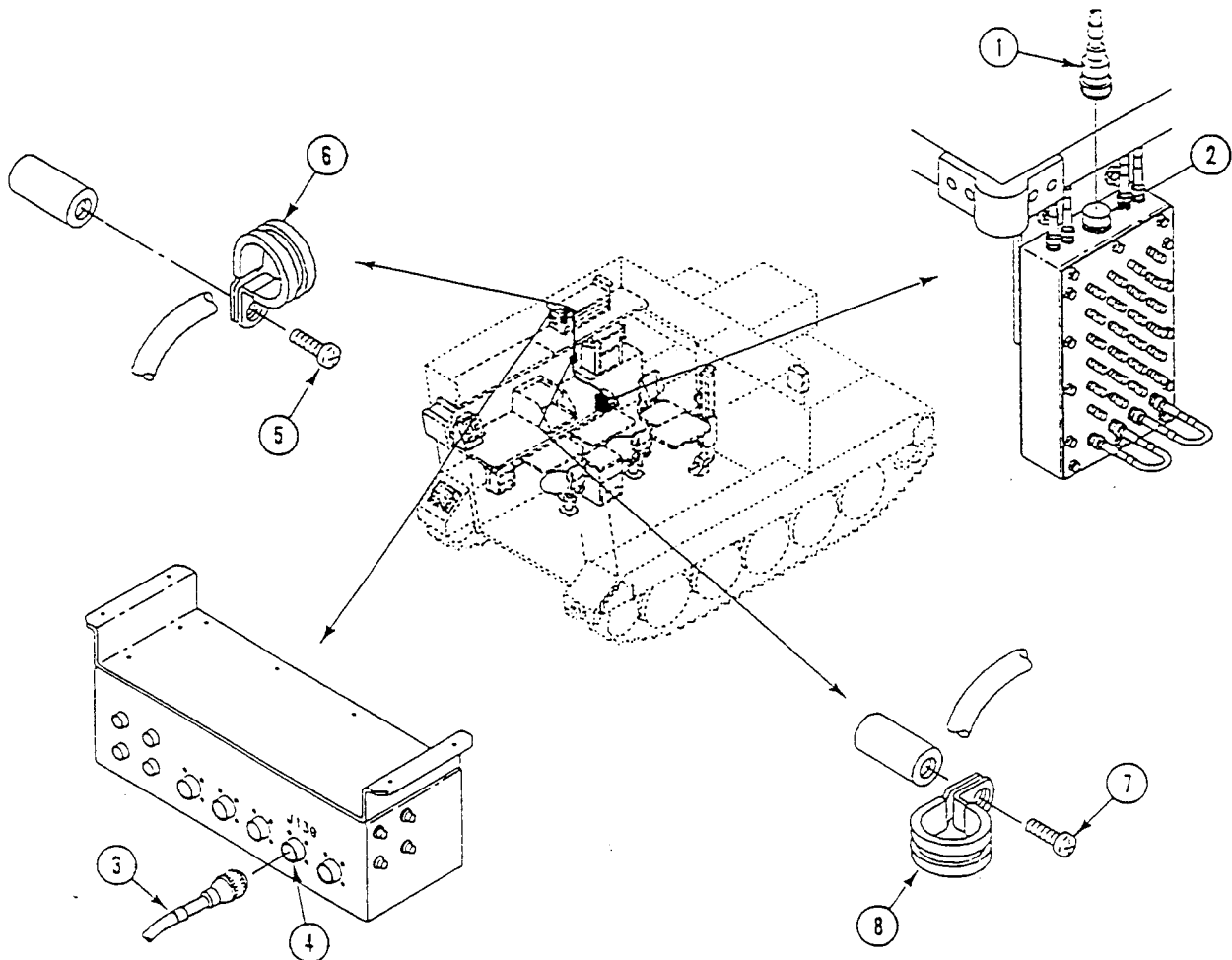
Signal Support System Specialist 31U10

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0338 00)

REMOVAL

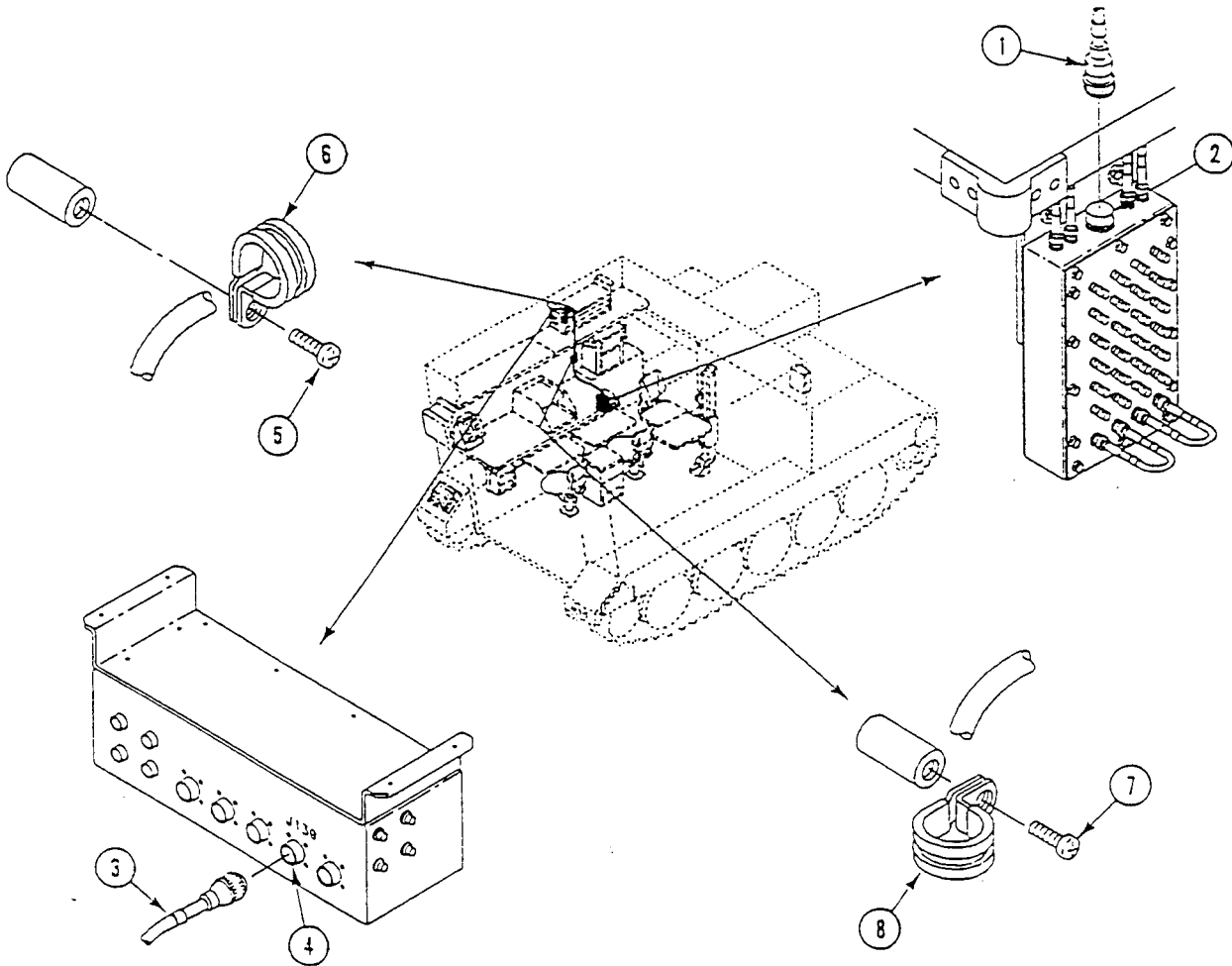
1. Disconnect cable plug W126P1 (1) from data panel assembly jack A13J3 (2).



REPLACE CABLE W126 (M1068A3 ONLY) — Continued

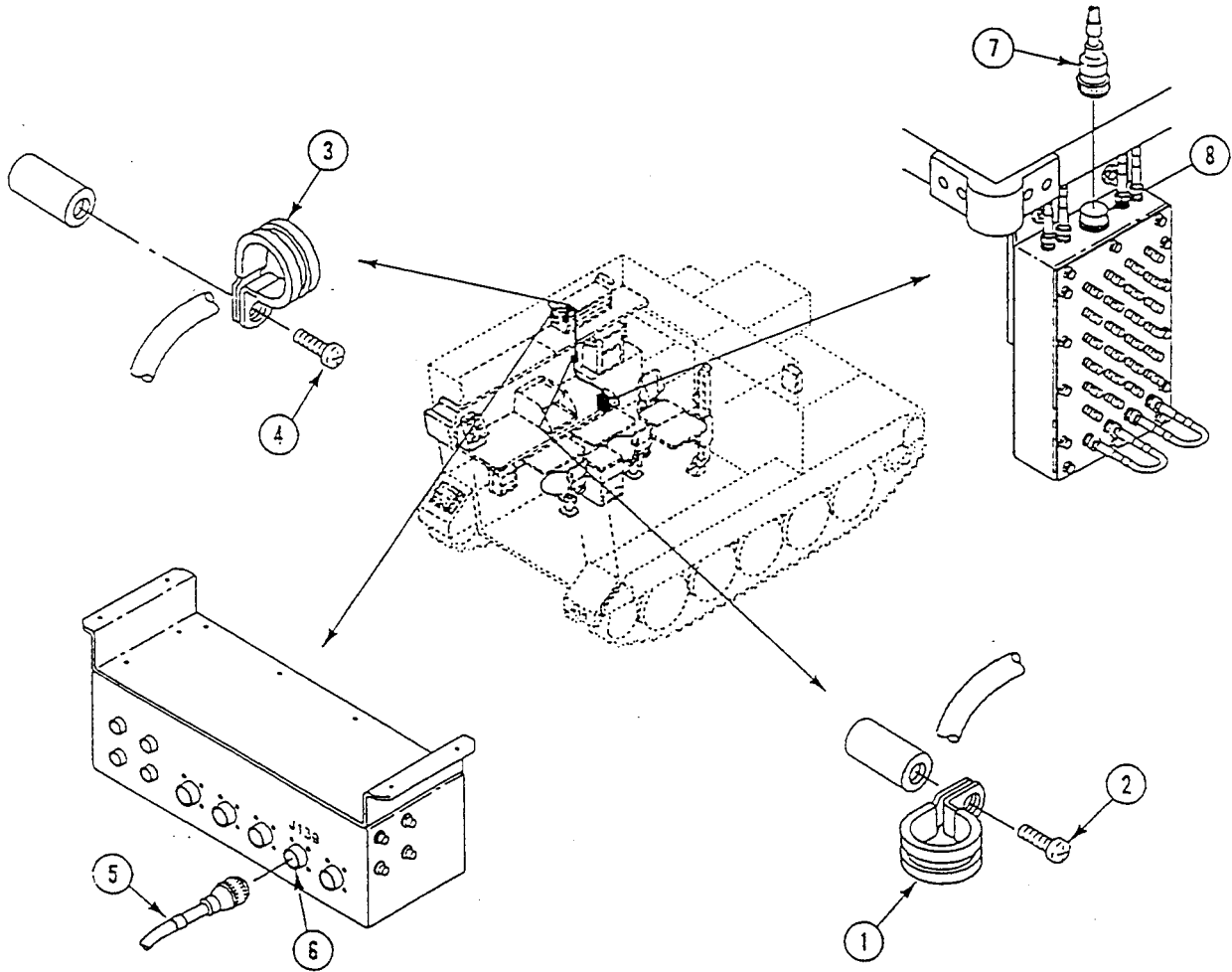
0856 00

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

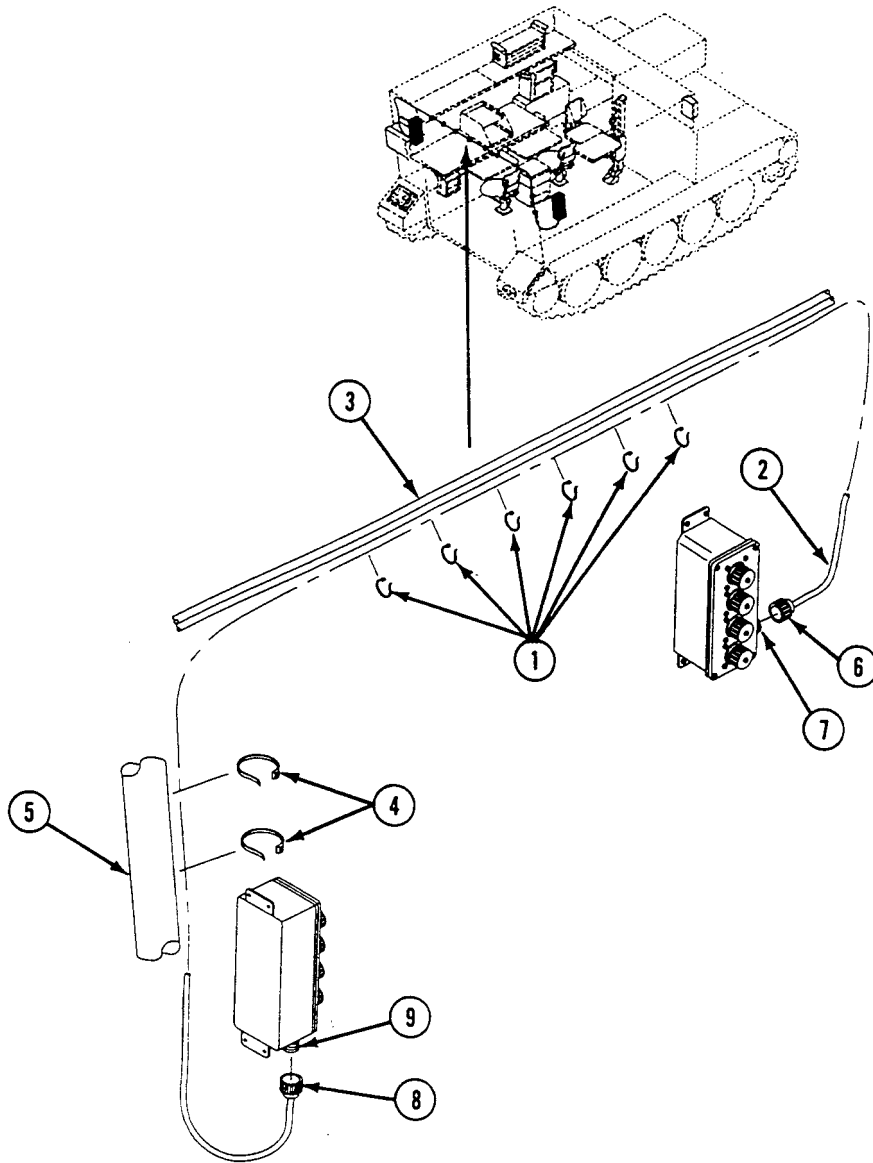
Unit Mechanic

Battery ground lead disconnected (WP 0338 00)

REMOVAL

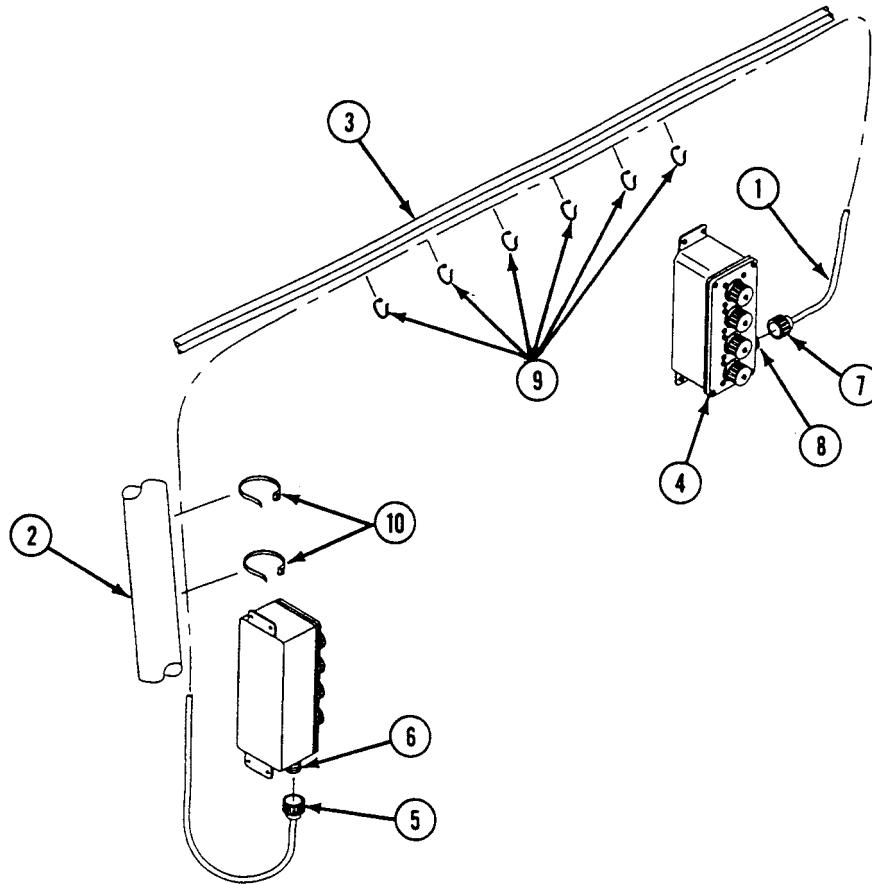
1. Remove 6 straps (1) and cable W252 (2) from existing wiring harness (3) along top rear hull. Discard straps.
2. Remove two straps (4) and cable W252 (2) from fuel filler tube (5). Discard straps
3. Disconnect cable W252 plug P1 (6) from AC power extension box A18 jack J1 (7).
4. Disconnect cable W252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

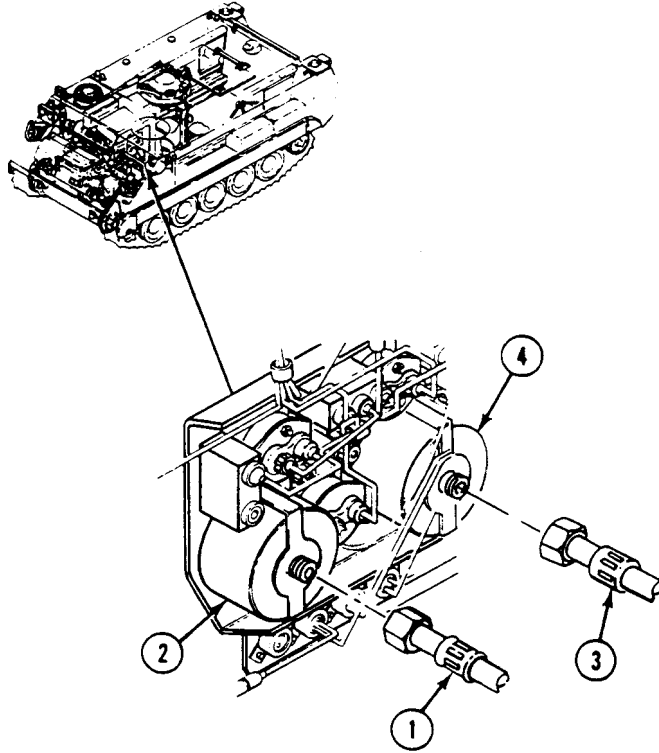
MASTER SWITCH OFF (see your -10)
 Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Power plant front access door opened (see your -10)
 Driver's power plant access panel removed (see your-10)

REMOVAL

NOTE

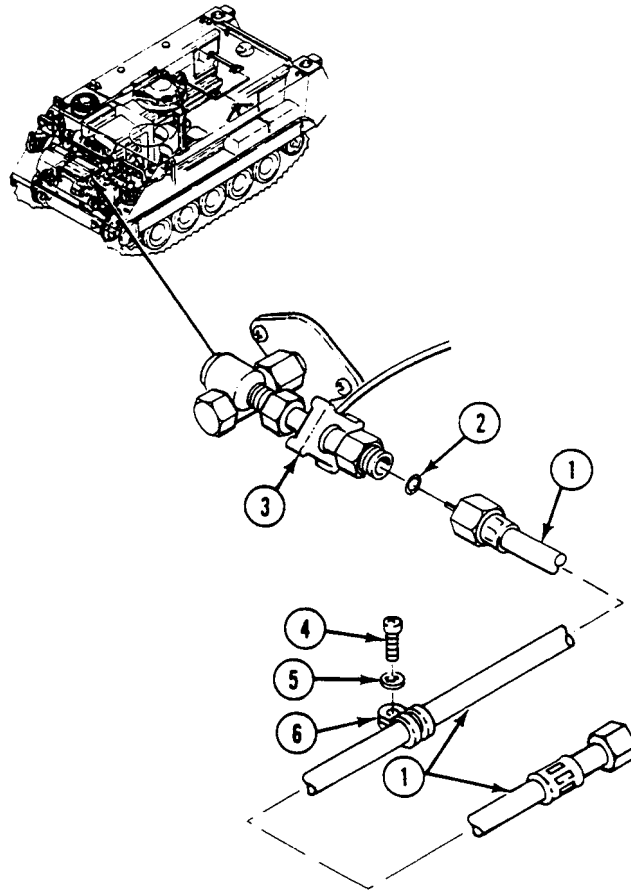
This task applies to BOTH tachometer cable assembly and speedometer cable assembly core servicing. Perform only those steps that refer to cable that requires servicing.

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

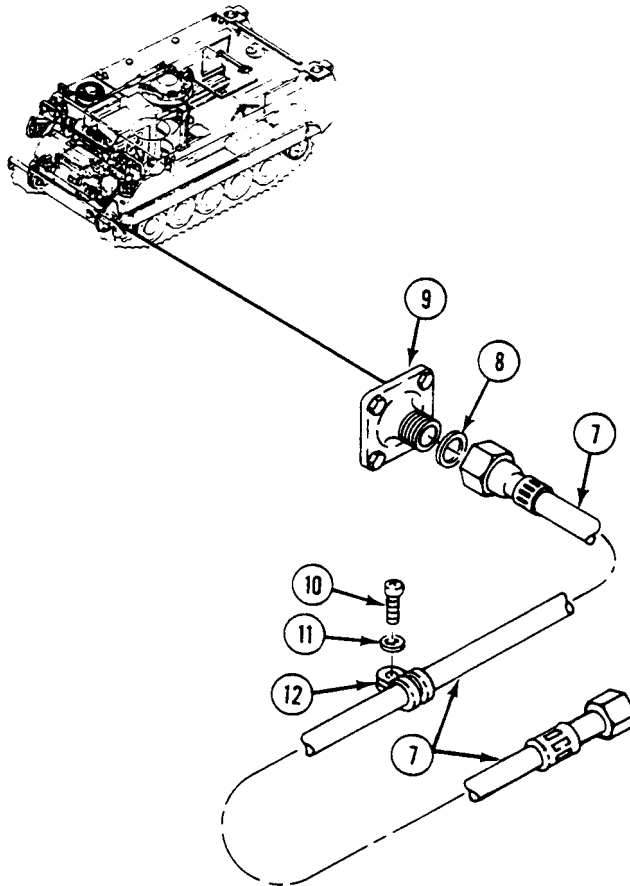


2. Remove tachometer cable (1) and gasket (2) from STE/ICE unit (3). Discard gasket.

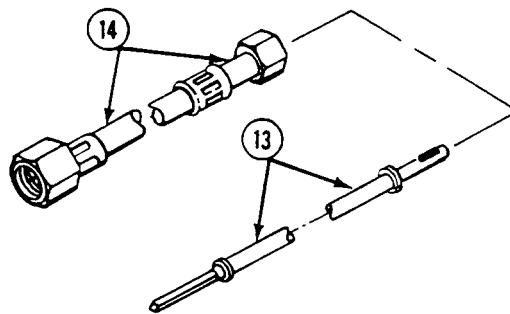
3. Remove screw (4), lockwasher (5), and clamp (6) from tachometer cable (1). Discard lockwasher.



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).

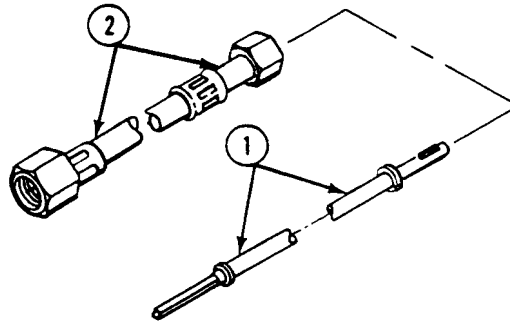


INSTALLATION

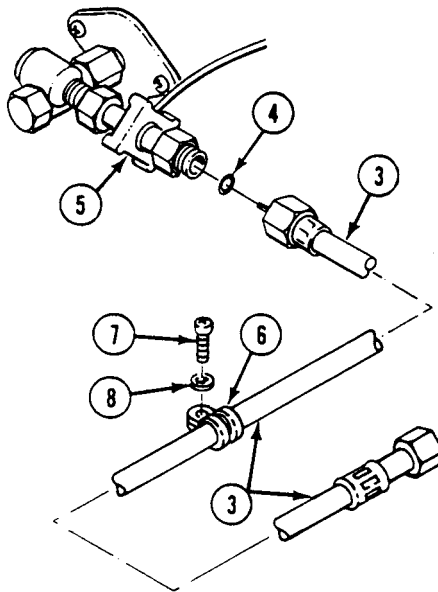
NOTE

Grease lube gun may be used in following step.

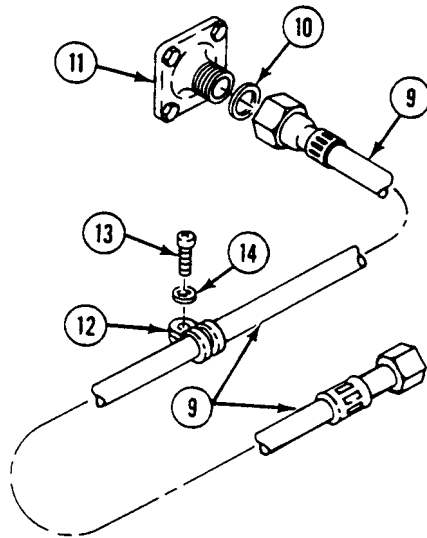
1. Apply grease to core (1).
2. Install core (1) in cable housing (2) with rotating motion.



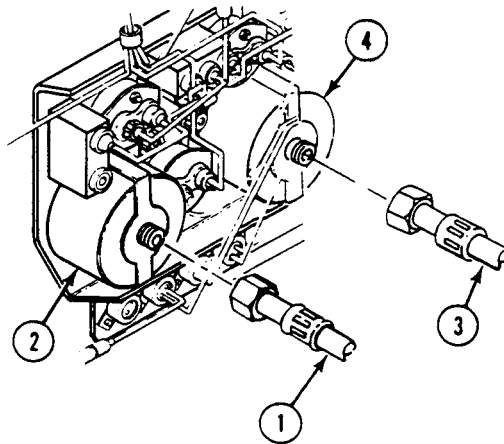
3. Install tachometer cable (3) and new gasket (4) on STE/ICE unit (5).
4. Install clamp (6) on tachometer cable (3). Secure with screw (7) and new lockwasher (8).



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)

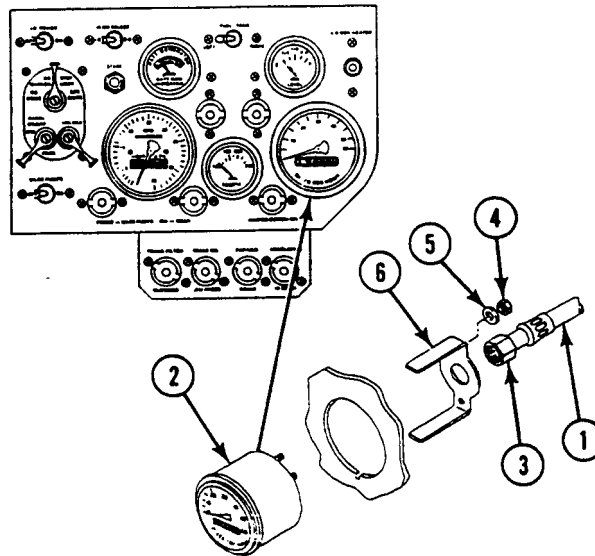
Personnel Required

Unit Mechanic

Carrier blocked (see your -10)

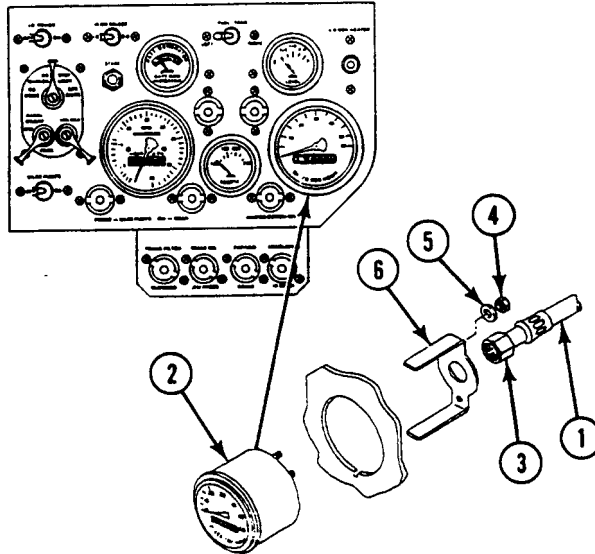
REMOVAL

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)

References

See your -10

Materials/Parts

Adapter
 Cable
 Lockwasher
 Preformed packing
 Tab washer (4)
 Strap

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Trim vane lowered (see your -10)
 Power plant front door open (see your -10)
 Hull front access cover removed (WP 0449 00)

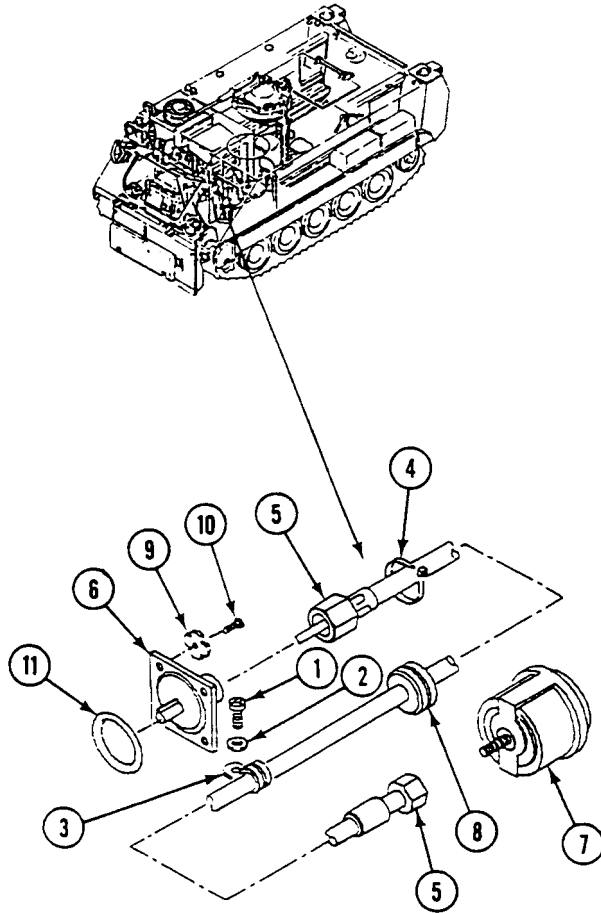
REMOVAL

1. Remove screw (1), lockwasher (2), and clamp (3) from bulkhead weldnut.

REPLACE SPEEDOMETER CABLE AND ADAPTER — Continued

0860 00

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.



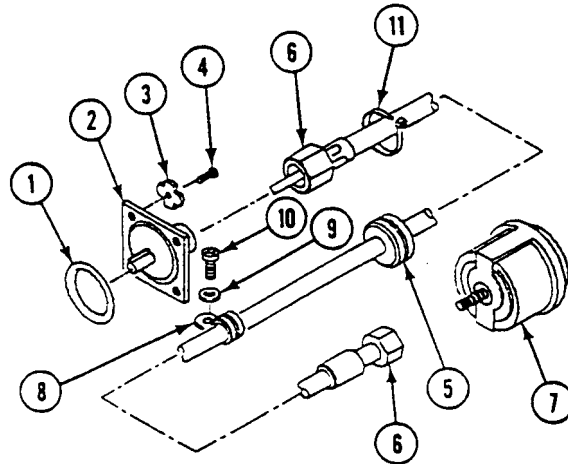
INSTALLATION

1. Place new preformed packing (1) on new final drive adapter (2).
2. Install adapter (2) on final drive, and secure with four new 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 your -10).
3. Raise trim vane (see your -10).

END OF TASK

REPAIR SPEEDOMETER CABLE

0861 00

THIS WORK PACKAGE COVERS:

- Removal (page 0861 00-1).
- Inspection (page 0861 00-2).
- Installation (page 0861 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

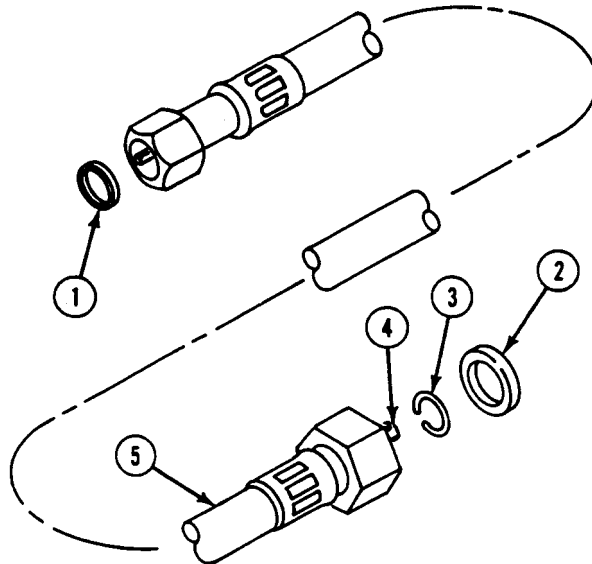
- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- Trim vane lowered (see your -10)
- Power plant access door open (see your -10)
- Hull front access cover removed (WP 0449 00)
- Speedometer cable removed (WP 0860 00)

Materials/Parts

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

REMOVAL

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

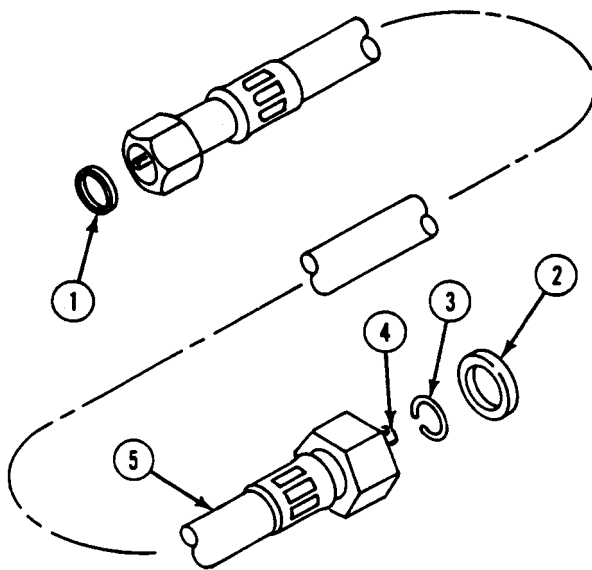


INSPECTION-ACCEPTANCE AND REJECTION CRITERIA

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

INSTALLATION

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 your -10).
4. Raise trim vane (see your -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)

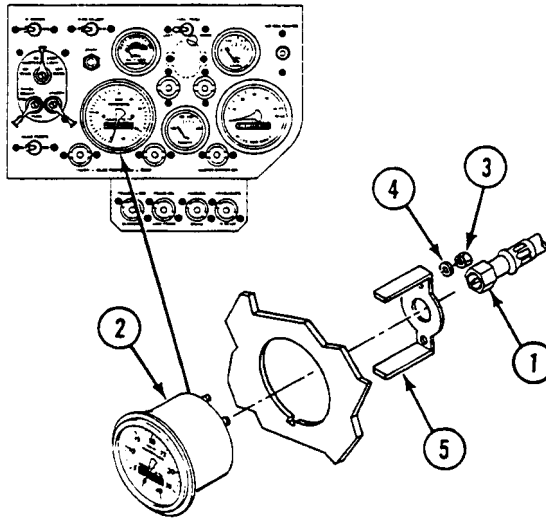
Personnel Required

Unit Mechanic

Carrier blocked (see your -10)

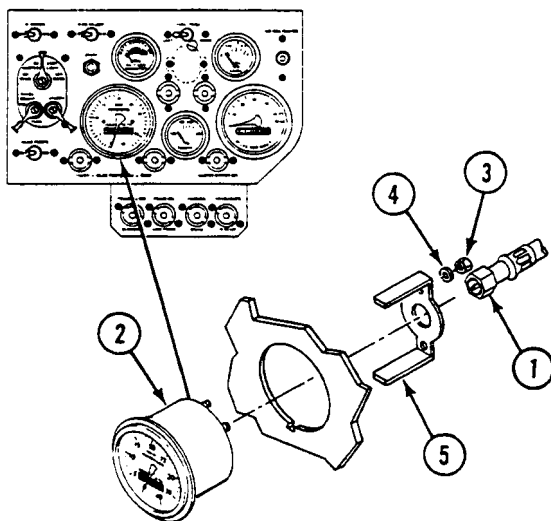
REMOVAL

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

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)
 Trim vane lowered (see your -10)
 Driver's power plant access panel
 removed (see your -10)
 Power plant front access door open (see your -10)

Materials/Parts

Gasket

Personnel Required

Unit Mechanic

REMOVAL

WARNING

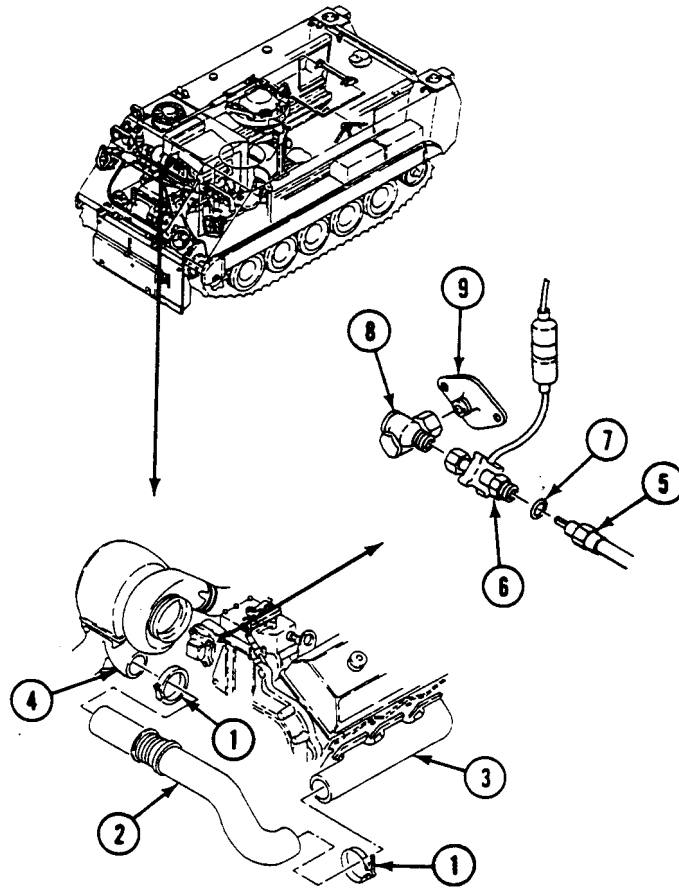


Hot exhaust pipes can burn you. Let power unit cool before you start work.

REPLACE TACHOMETER ENGINE ADAPTER — Continued

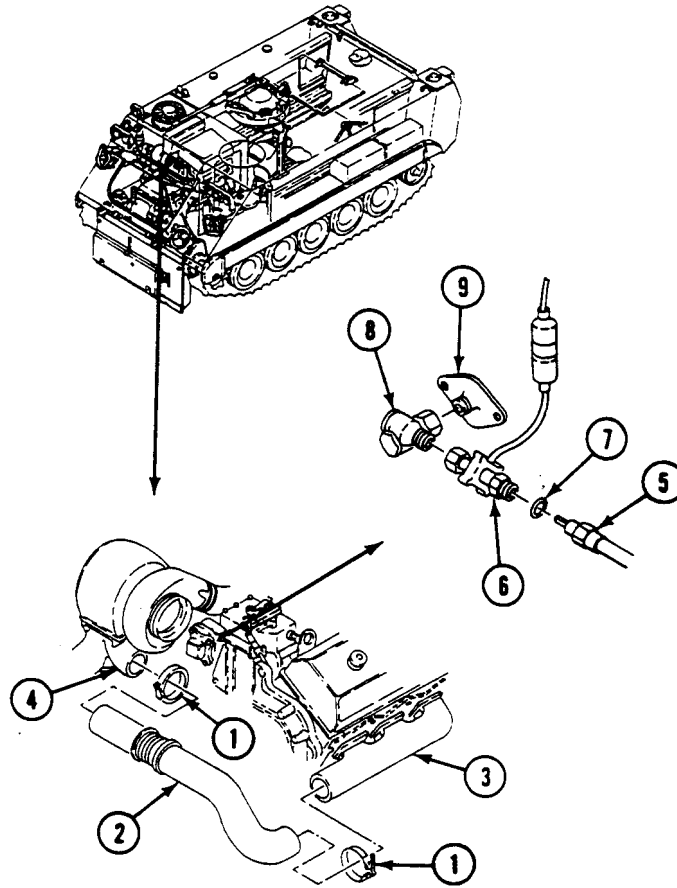
0863 00

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 STE/ICE unit (6). Slide jam nut (7) back on cable and remove gasket (7) from cable. Discard gasket.
3. Remove STE/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 STE/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 STE/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 your -10).
2. Check tachometer for proper operation. Tachometer needle should not pulsate.
3. Check exhaust system for leaks.
4. Stop engine (see your -10).
5. Close power plant front access door (see your -10).
6. Install driver's power plant access panel (see your -10).
7. Raise trim vane (see your -10).

END OF TASK

REPLACE TACHOMETER CABLE

0864 00

THIS WORK PACKAGE COVERS:

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

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Trim vane lowered (see your -10)
 Driver's power plant access panel removed (see your -10)
 Power plant front access door open (see your -10)
 Hull front access cover removed (WP 0449 00)

Materials/Parts

Gasket
 Grommet
 Lockwasher (4)

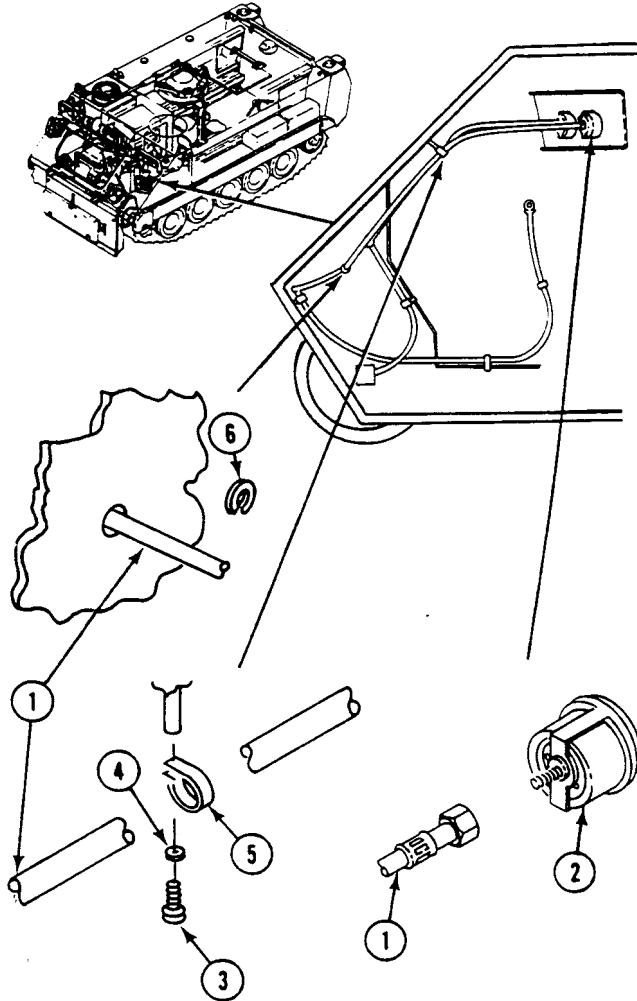
Personnel Required

Unit Mechanic

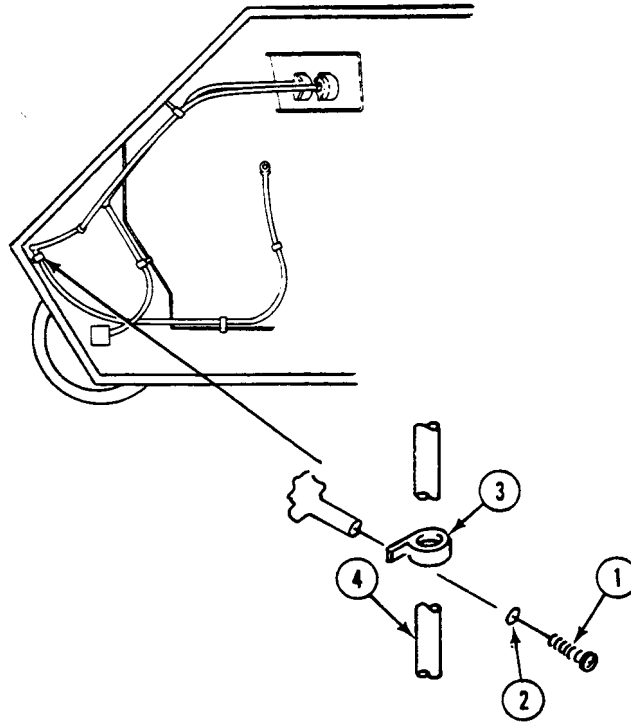
REMOVAL

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.



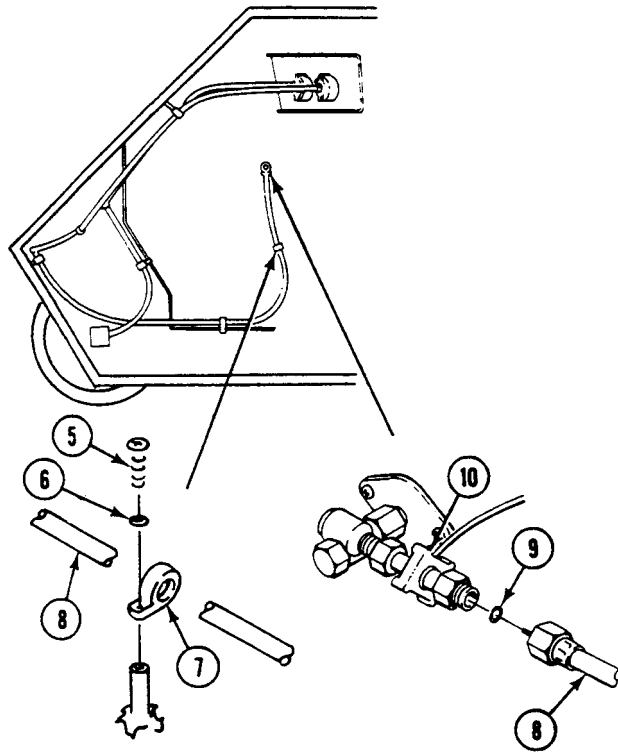
REPLACE TACHOMETER CABLE — Continued

0864 00

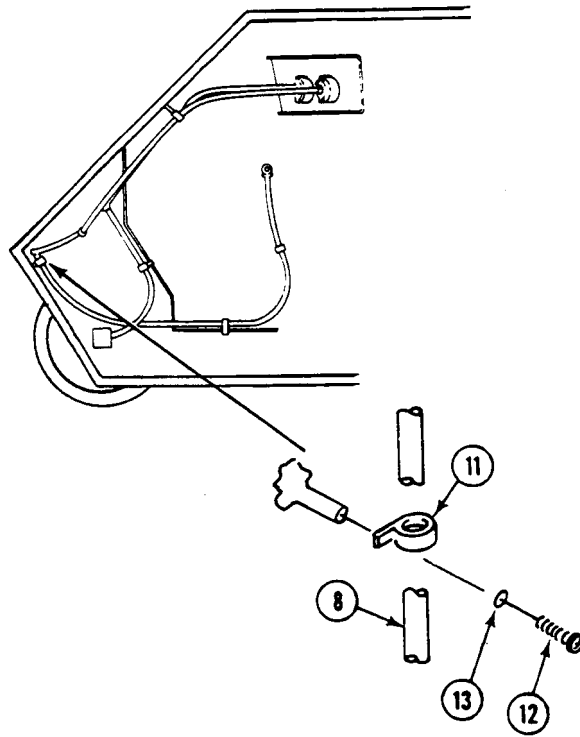
5. Remove two screws (5), lockwashers (6), and clamps (7) from cable (8). Discard lockwashers.
6. Remove cable (8) and gasket (9) from STE/ICE unit (10). Discard gasket.

INSTALLATION

1. Connect cable (8) and new gasket (9) on STE/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).

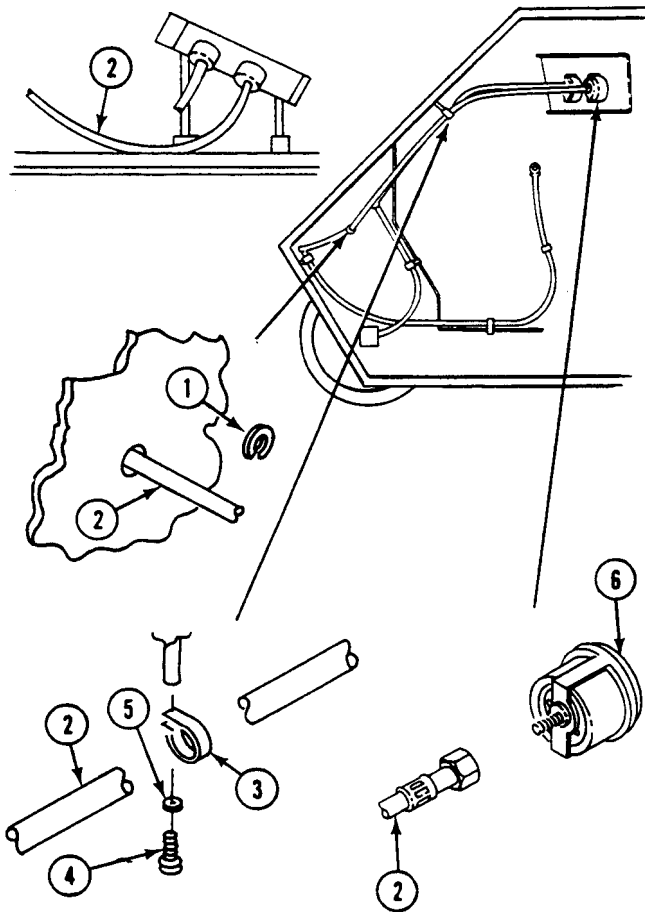


4. Install new grommet (1) on cable (2). Route cable through bulkhead and install grommet in bulkhead.

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 your -10).
3. Close power plant front access door (see your -10).
4. Raise trim vane (see your -10).

END OF TASK

REPAIR TACHOMETER CABLE

0865 00

THIS WORK PACKAGE COVERS:

- Removal (page 0865 00-1).
- Inspection (page 0865 00-1).
- Installation (page 0865 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)
- Carrier blocked (see your -10)
- Trim vane lowered (see your -10)
- Power plant access door open (see your -10)
- Hull front access cover removed (WP 0449 00)
- Tachometer cable removed (WP 0864 00)

Materials/Parts

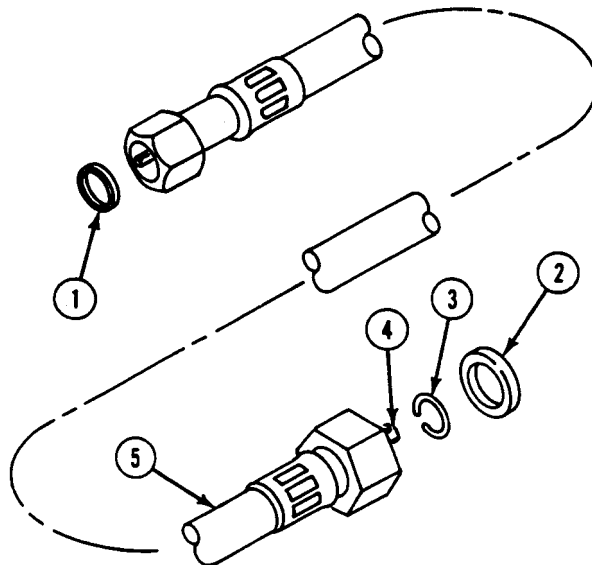
- Grease (WP 0928 00, Item 12)
- Cable core
- Gasket

Personnel Required

Unit Mechanic

REMOVAL

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

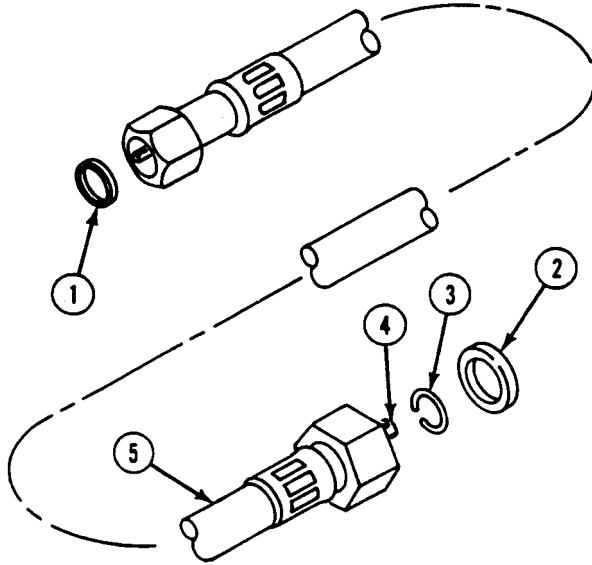


INSPECTION-ACCEPTANCE AND REJECTION CRITERIA

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

INSTALLATION

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 your -10).
4. Raise trim vane (see your -10).

END OF TASK

CHAPTER 27

UNIT MAINTENANCE INSTRUCTIONS
FOR PRECISION INSTRUMENTS AND SYSTEMS

WORK PACKAGE INDEX

<u>Title</u>	<u>Sequence No.</u>
REPLACE DVE SENSOR SET ASSEMBLY POWER CABLE (M58 ONLY).....	0866 01
REPLACE DRIVER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY).....	0866 02
REPLACE AN/VAS-5 DRIVER'S VISION ENHANCER STOWAGE BRACKET (M58 ONLY).....	0866 03
REPLACE DRIVER'S VISION ENHANCER (DVE) AN/VAS-5 POWER SUPPLY CABLE (M58 ONLY).....	0866 04
REPLACE AN/VAS-5 DRIVER'S NIGHT VISION ENHANCER SENSOR SET ASSEMBLY ADAPTER (DVE) (M58 ONLY).....	0866 05
REPLACE COMMANDER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY).....	0866 06
REPLACE STE/ICE PULSE TACHOMETER.....	0867 00
REPLACE STE/ICE SHUNT GUARD (M113A3 AND M1059A3 ONLY).....	0868 00
DELETED.....	0869 00
REPLACE STE/ICE SHUNT (M113A3 AND M1059A3 ONLY).....	0870 00
REPLACE STE/ICE SHUNT (M577A3 AND M1068A3 ONLY).....	0871 00
DELETED.....	0872 00
REPLACE STE/ICE SHUNT (M1064A3 ONLY).....	0873 00
REPLACE STE/ICE DISTRIBUTION BOX (M113A3 AND M1059A3 ONLY).....	0874 00
REPLACE STE/ICE DISTRIBUTION BOX (M577A3 AND M1068A3 ONLY).....	0875 00
DELETED.....	0876 00
REPLACE STE/ICE DISTRIBUTION BOX (M1064A3 ONLY).....	0877 00
REPLACE STE/ICE CREW WIRING HARNESS (M113A3 AND M1059A3 ONLY).....	0878 00
REPLACE STE/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY).....	0879 00
DELETED.....	0880 00
REPLACE STE/ICE CREW WIRING HARNESS (M1064A3 ONLY).....	0881 00
REPLACE STE/ICE ENGINE WIRING HARNESS.....	0882 00

REPLACE DVE SENSOR SET ASSEMBLY POWER CABLE (M58 ONLY)

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

References

See your -10

Tools and Special Tools

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

Equipment Condition

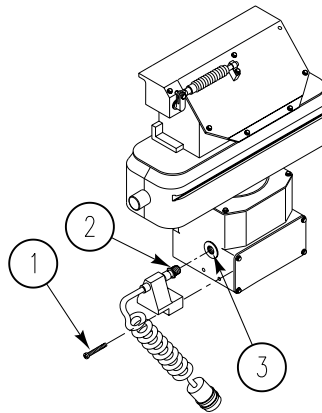
- Engine stopped (see your -10)
- DVE switch off (see your -10)
- Sensor set assembly removed (see your -10)

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).

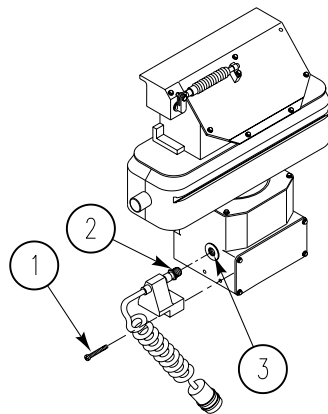


TEST AND INSPECTION

1. Check pin to pin continuity of power cable (2). 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 your -10).
2. After operation remove and stow (see your -10).

END OF TASK

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

0866 02

THIS WORK PACKAGE COVERS:

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

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)

Materials/Parts

Lockwasher (3)

DVE switch off (see your -10)

Personnel Required

Unit Mechanic

Driver's center periscope removed (see your -10)

REMOVAL

NOTE

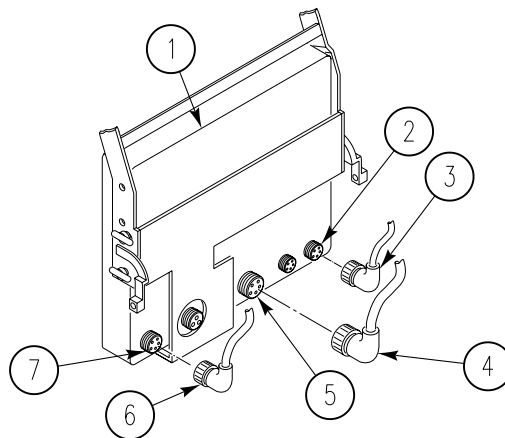
The DVE in your vehicle may or may not have the commander's display mounting bracket installed. This task covers both configurations.

NOTE

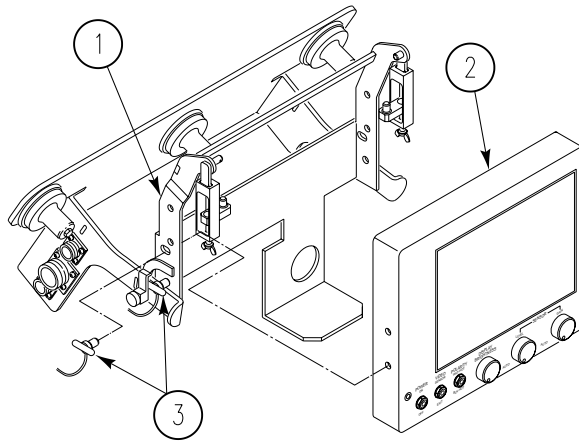
If removing driver's/ commander's display mounting bracket, do Steps 1 - 5.

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

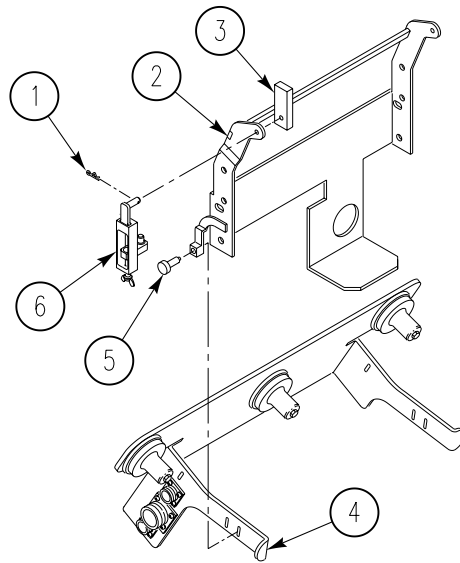
1. If commander's display is installed in vehicle, remove connector W3P1 (6) from connector A1J5 (7) connector W2P2 (4) from connector A1J2 (5), and connector 516B P2 (3) from connector A1J1 (2) on driver's display (1).



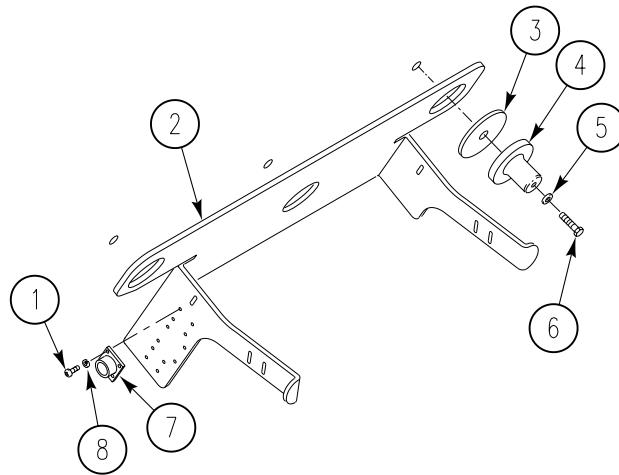
2. While holding driver's display (2), remove four knobs (3) and driver's display (2) from bracket (1).



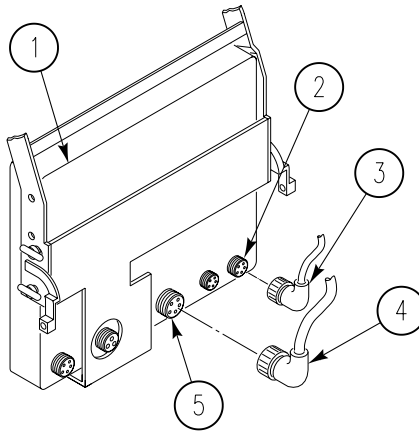
3. Remove two quick release plungers (5) securing bracket (2) to guide (4).
4. Remove two clips (1), supports (6), and bracket (2) from lugs (3).



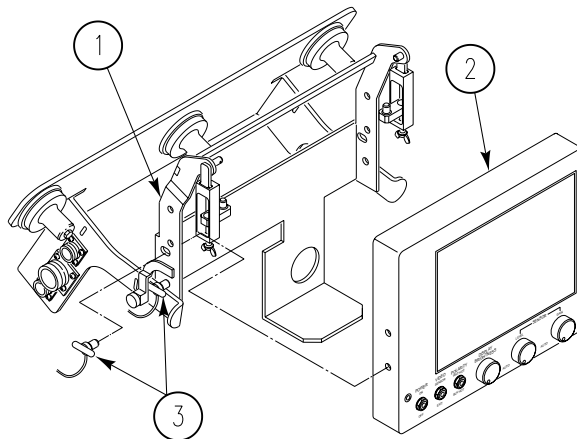
5. Remove three screws (6), lockwashers (5), clamps (4), guide (2), and three pads (3) from bulkhead. Discard lockwashers.



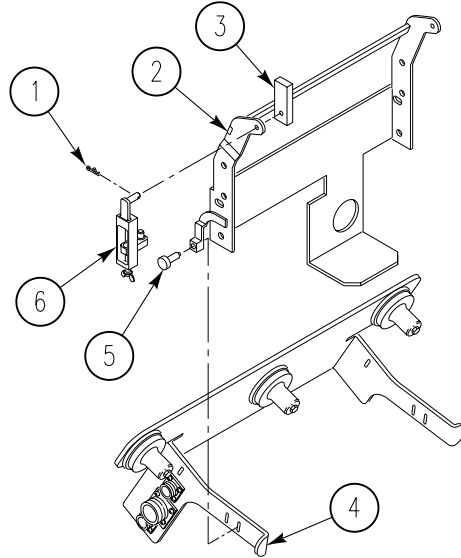
6. If commander's display is not installed in vehicle, remove connector W2P2 (4) from connector A1J2 (5) and connector 516B P2(3) from connector A1J1 (2) on driver's display (1).



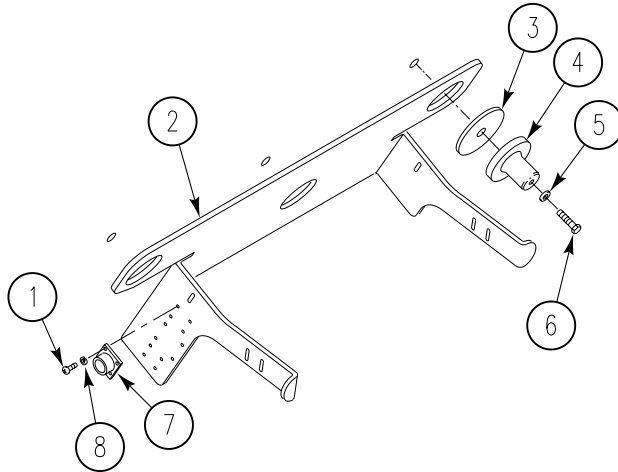
7. While holding driver's display (2), remove four knobs (3) and driver's display (2) from bracket (1).



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).



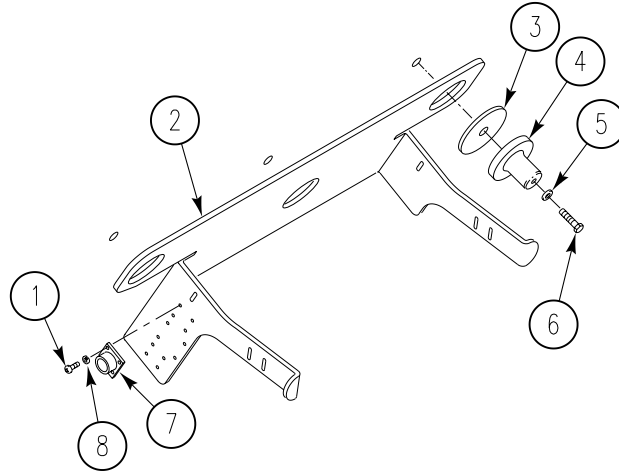
10. Remove three screws (6), lockwashers (5), clamps (4), guide (2), and three pads (3) from bulkhead. Discard lockwashers.



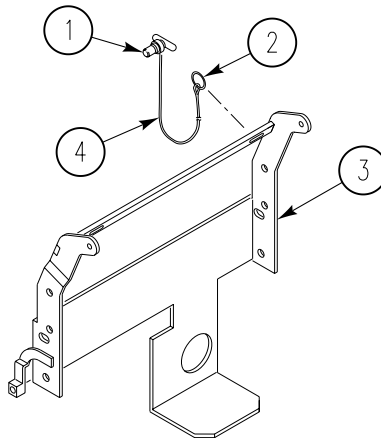
NOTE

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).

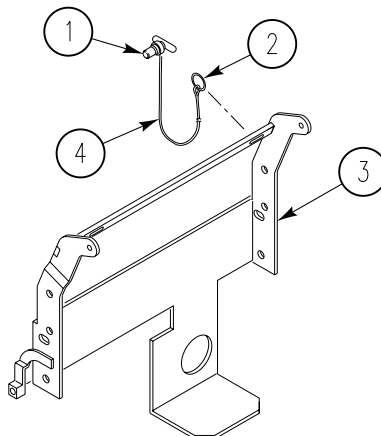


12. If damaged, remove ring (2) with lanyard (4) and knob (1) from bracket (3).

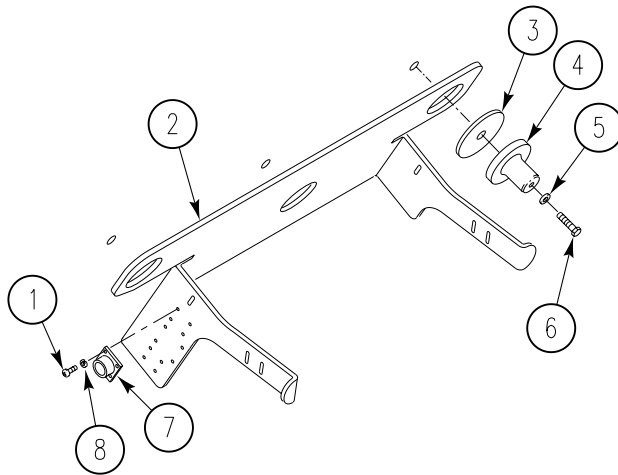


INSTALLATION

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



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

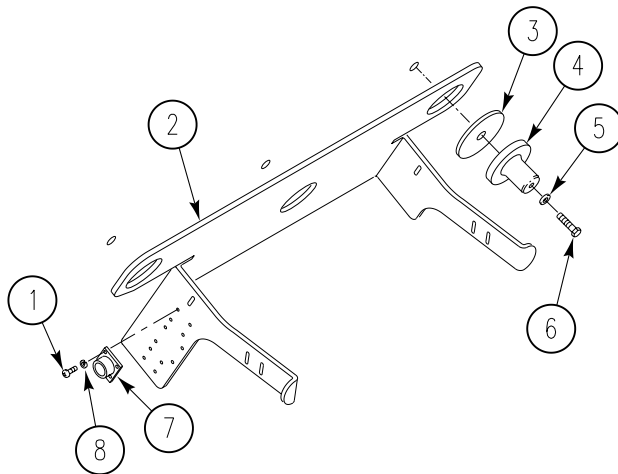


NOTE

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

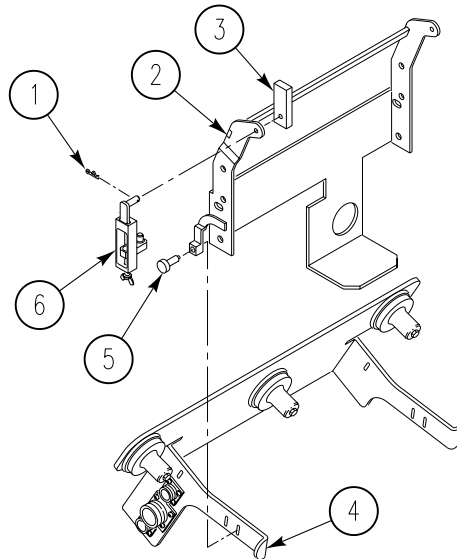
If installing driver's commander's display mounting bracket, do Steps 8 - 12.

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

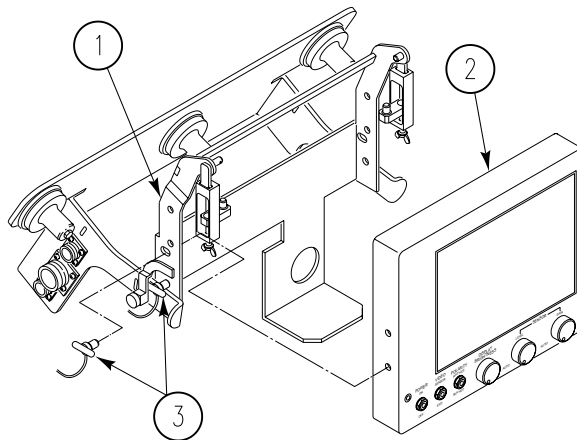


4. Align bracket (2) with two lugs (3) and secure with two supports (6) and clips (1).

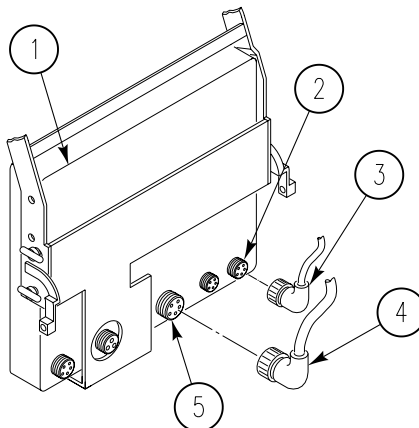
5. Secure bracket (2) to guide (4) with two quick release plungers (5).



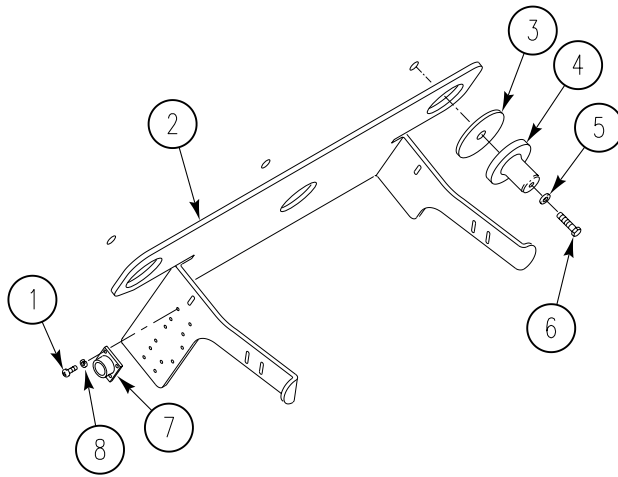
6. Position driver's display (2) on bracket (1) and secure with four knobs (3).



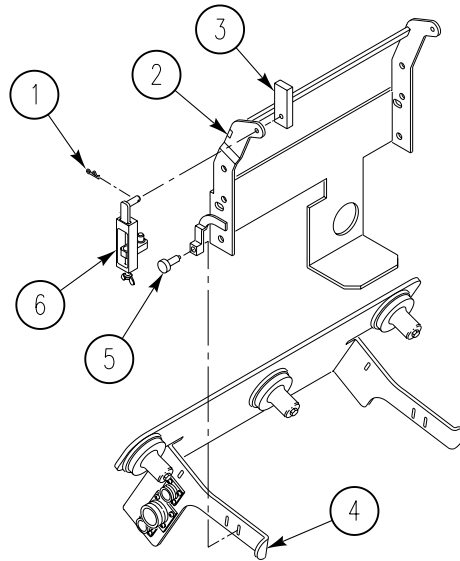
7. If commander's display is not installed in vehicle, install connector W2P2 (4) to connector A1J2 (5) and connector 516B P2 (3) to connector A1J1 (2) on driver's display (1).



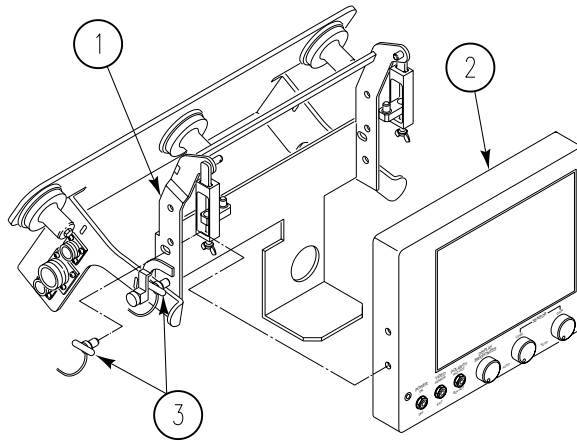
8. Position three pads (3) on bulkhead and guide (2) with three clamps (4), new lockwashers (5), and screws (6). .



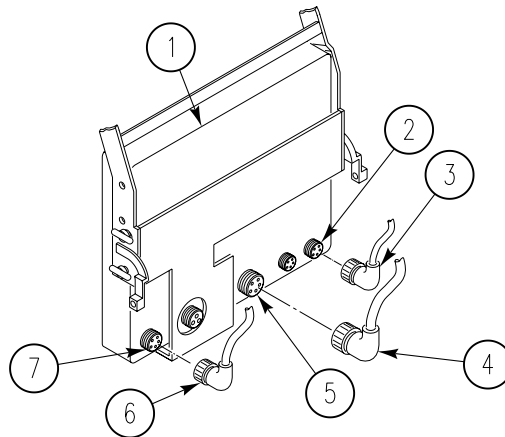
9. Align bracket (2) with two lugs (3) and secure with two supports (6) and clips (1).
 10. Secure bracket (2) to guide (4) with two quick release plungers (5).



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



12. If commander's display 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 your -10).

END OF TASK

**REPLACE AN/VAS-5 DRIVER'S VISION ENHANCER STOWAGE BRACKET
(M58 ONLY)**

0866 03

THIS WORK PACKAGE COVERS:

Removal (page 0866 03-1).
Installation (page 0866 03-2).

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

Adhesive (WP 0928 00, Item 6)

Cleaning compound solvent (WP 0928 00, Item 19)

Wiping rag (WP 0928 00, Item 65)

Personnel Required

Unit Mechanic

Equipment Condition

Engine stopped (see your -10)

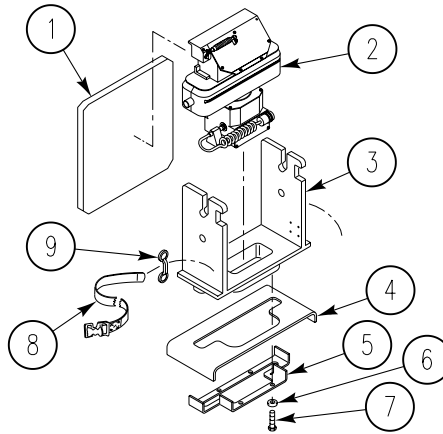
Carrier blocked (see your -10)

Sensor set assembly removed (see your -10)

Plug assembly removed (see your -10)

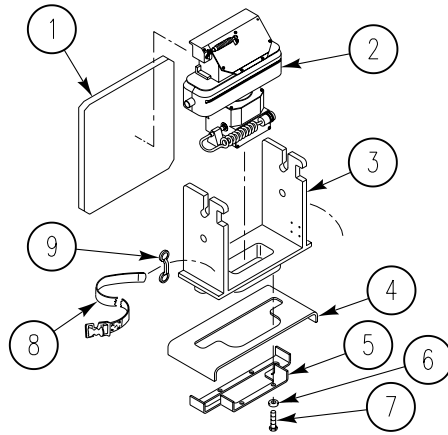
REMOVAL

1. If damaged, remove strap (8) from two loops (9). Discard strap.
2. Remove four screws (7), washers (6), retainer (5), and stowage bracket (3) from support (4).
3. Check pad (1) behind stowage bracket. If damaged, remove and discard pad.



REPLACE AN/VAS-5 DRIVER'S VISION ENHANCER STOWAGE BRACKET (M58 ONLY) —
Continued**0866 03****INSTALLATION**

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 (3), retainer (5), four washers (6), and screws (7) on support (4).
3. If removed, install new strap (8) on two loops (9).

**END OF TASK**

REPLACE DRIVER’S VISION ENHANCER (DVE) AN/VAS-5 POWER SUPPLY CABLE (M58 ONLY)

0866 04

THIS WORK PACKAGE COVERS:

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

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)
 DVE switch off (see your -10)

Materials/Parts

Lockwasher

Personnel Required

Unit Mechanic

REMOVAL

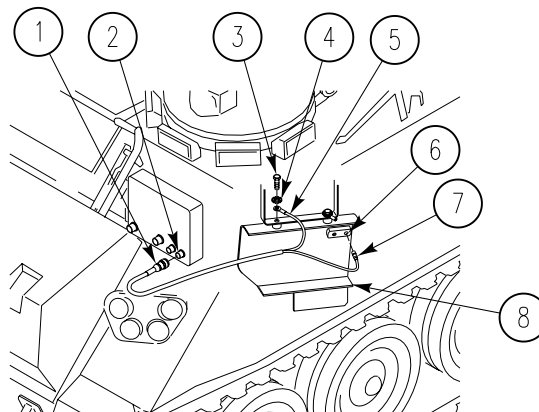
NOTE

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

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

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

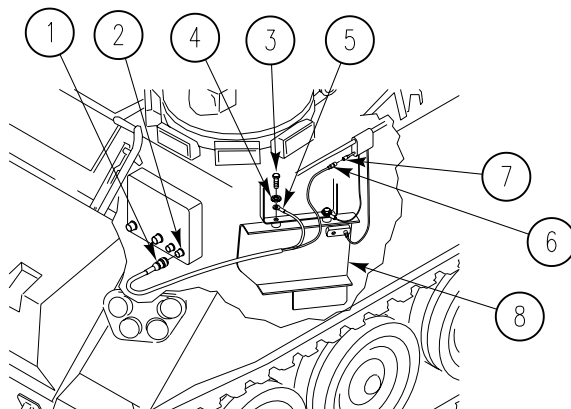
1. Remove power supply cable connector 516B P2 (1) from driver’s display connector A1J1 (2).
2. Remove screw (3), lockwasher (4), and power supply cable ground lead E3 (5) from bracket (8). Discard lockwasher
3. If commander’s display is not installed, remove power supply cable connector 516B P1 (7)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



REPLACE DRIVER'S VISION ENHANCER (DVE) AN/VAS-5 POWER SUPPLY CABLE (M58 ONLY) — 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 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 power supply cable, do Steps 1 - 3.

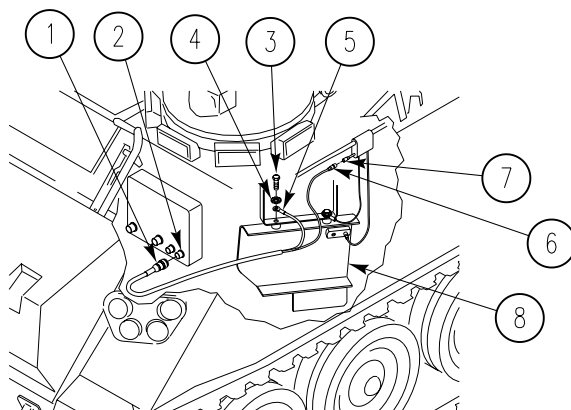
To install driver's display power supply cable, do Steps 4 - 6.

1. If commander's display is installed, install power supply cable connector 516B P1 (6) to commander's display 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 (M58 ONLY) — Continued

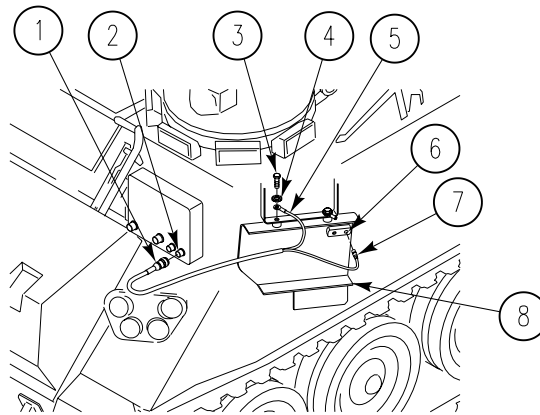
0866 04

4. If commander's display 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 SENSOR SET ASSEMBLY ADAPTER (DVE) (M58 ONLY)

0866 05

THIS WORK PACKAGE COVERS:

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

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

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 (see your -10)
 Carrier blocked (see your -10)
 Sensor set assembly removed from stowage (see your -10)

Materials/Parts

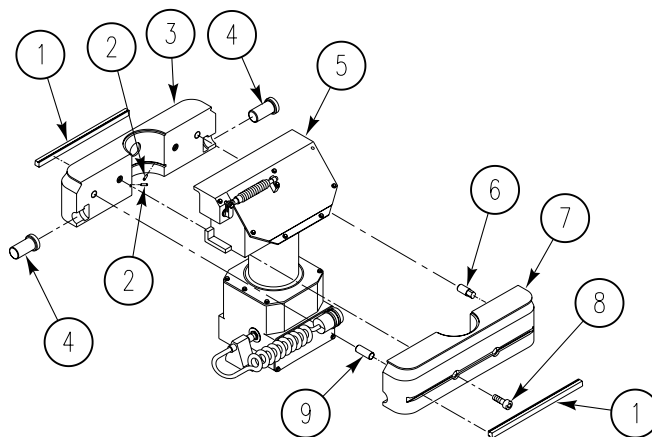
Technical petrolatum (WP 0928 00, Item 61)

Personnel Required

Unit Mechanic

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.

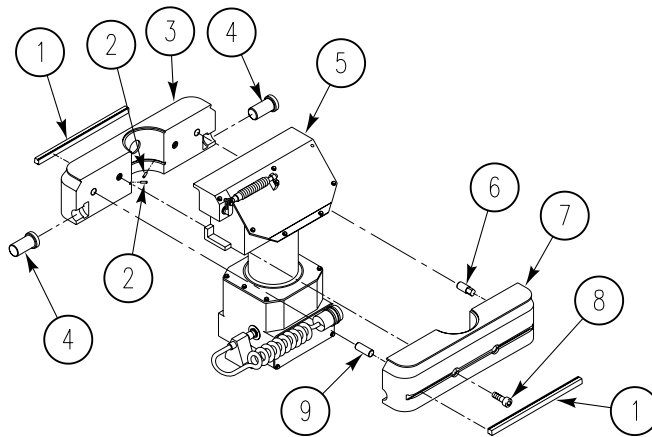


**REPLACE AN/VAS-5 DRIVER'S NIGHT VISION ENHANCER SENSOR SET ASSEMBLY
ADAPTER (DVE) (M58 ONLY) — Continued**

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. Install front adapter half (3) and back adapter half(7) on sensor assembly (5). Secure with two existing screws (8). Tighten two screws to 86-94 lb-in (10-11 Nm) torque.
4. Apply technical petrolatum to bore of adapter and install two new bosses (4).
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)

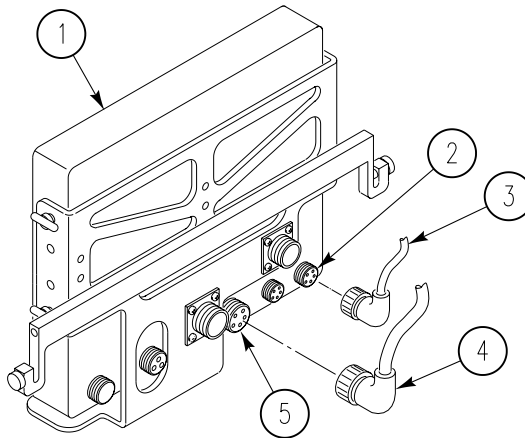
Personnel Required

Unit Mechanic

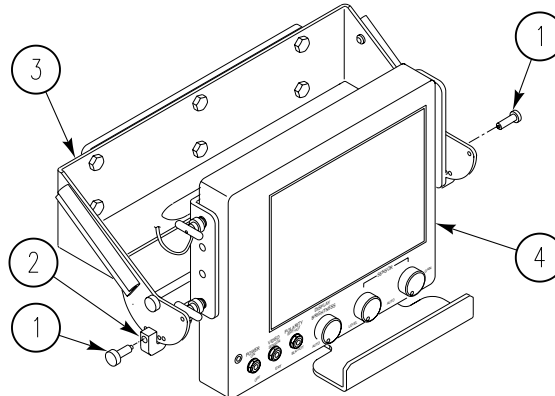
Helper (H)

REMOVAL

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



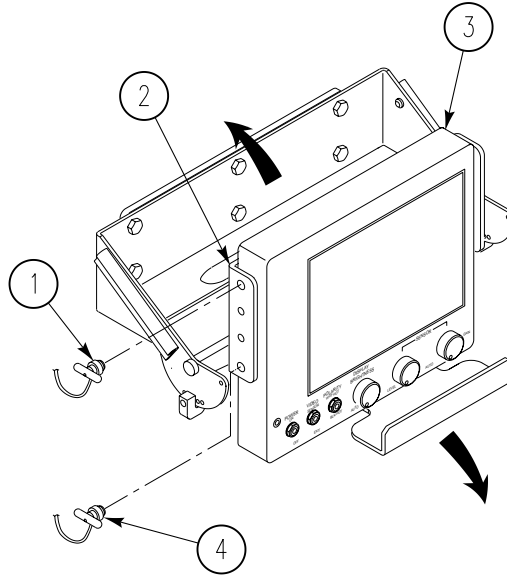
2. Remove two quick release plungers (1) securing bracket (2) to bracket (3).



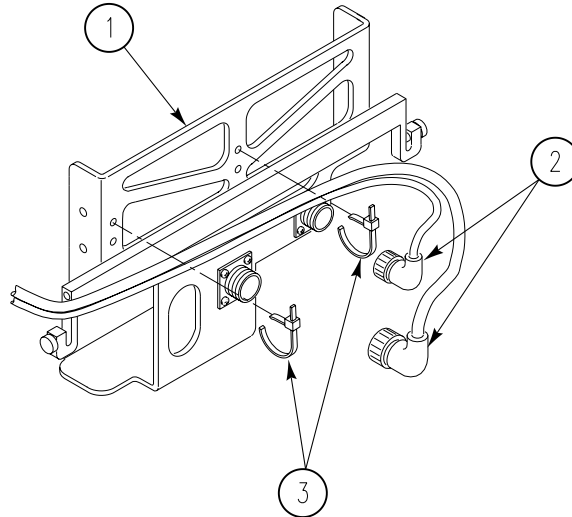
REPLACE COMMANDER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY) —
Continued

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).



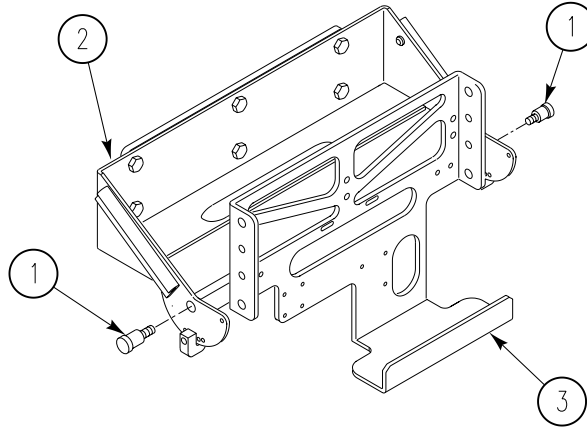
4. Cut two straps (3) securing cable assembly (2) to bracket (1).



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

0866 06

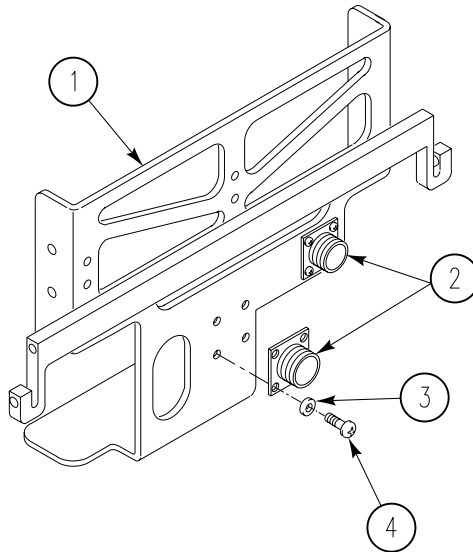
- Remove two shoulder screws (1) and bracket (2) from bracket (3).



NOTE

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

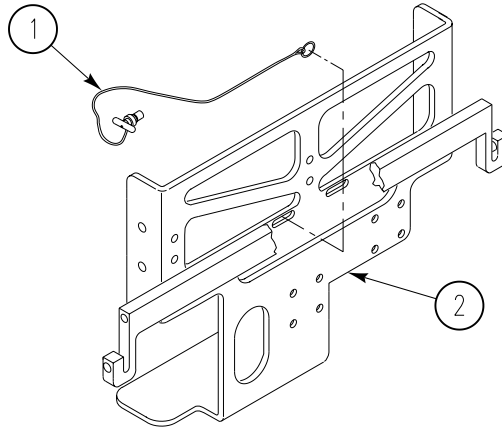
- If damaged, remove four screws (4), washers (3), and dummy connector (2) from bracket (1).



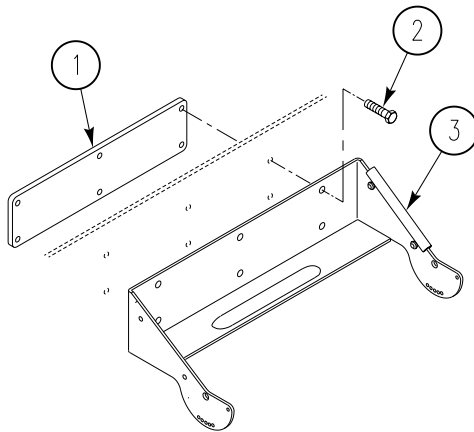
REPLACE COMMANDER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY) —
Continued

0866 06

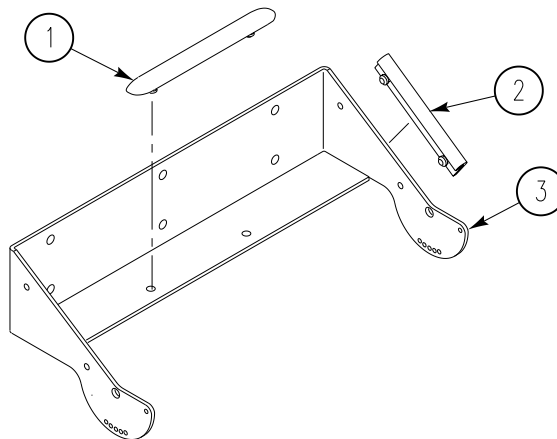
7. If damaged, remove ring and lanyard with knob (1) from bracket (2).



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



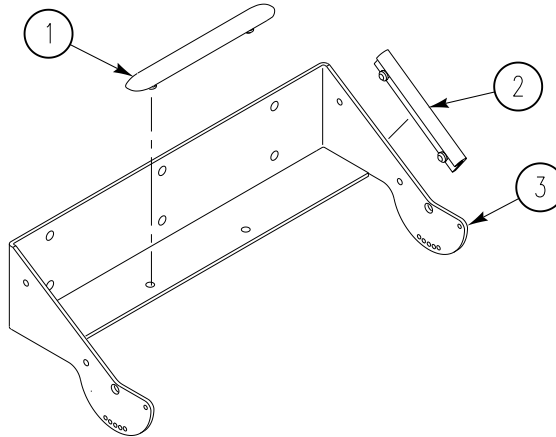
9. If damaged, remove pad (2) and cushion (1) from bracket (3).



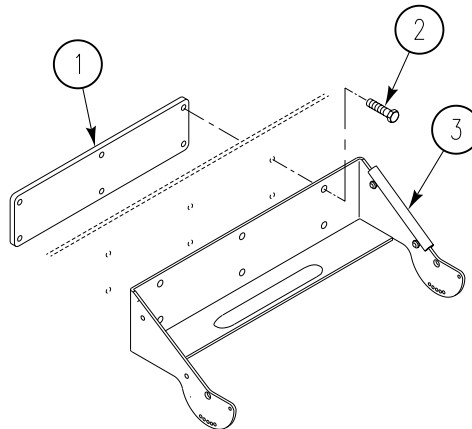
REPLACE COMMANDER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY) —
Continued

INSTALLATION

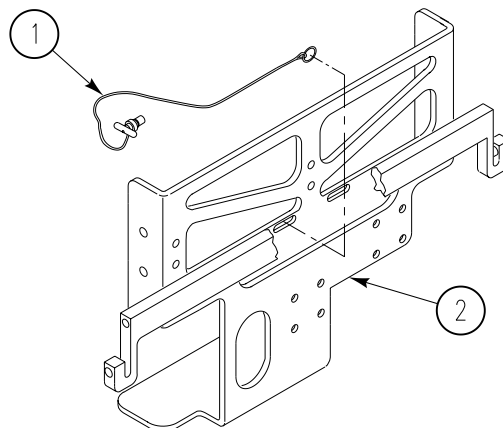
1. If removed, install new cushion (1) and new pad (2) on bracket (3).



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



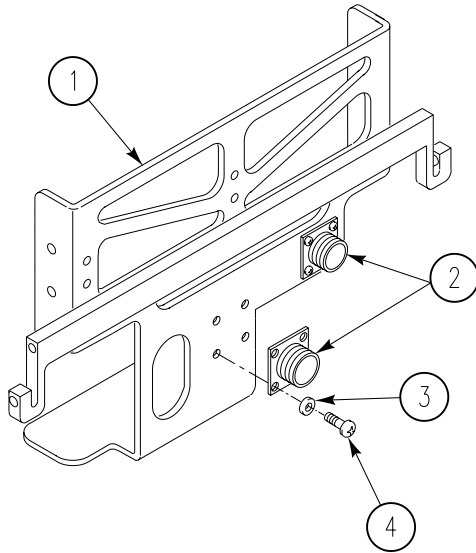
3. If removed, install new knob with lanyard and ring (1) on bracket (2).



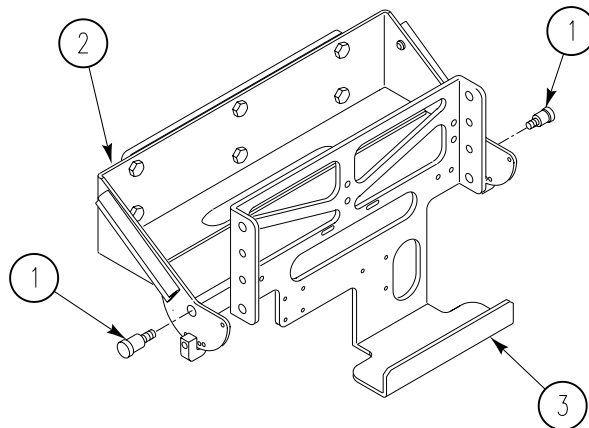
REPLACE COMMANDER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY) —
Continued

0866 06

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



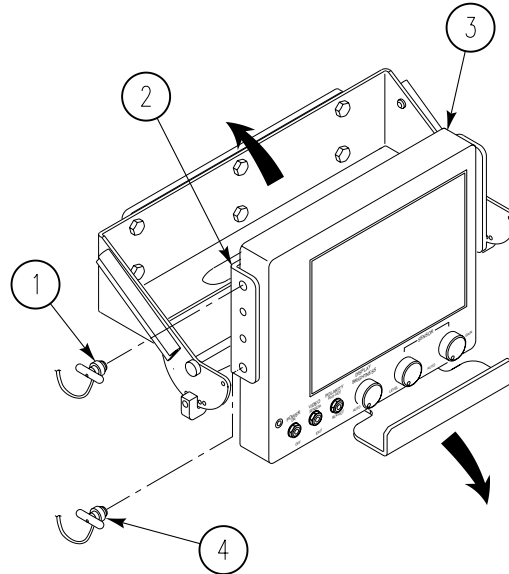
5. Align bracket (3) with bracket (2) and secure with two shoulder screws (1).



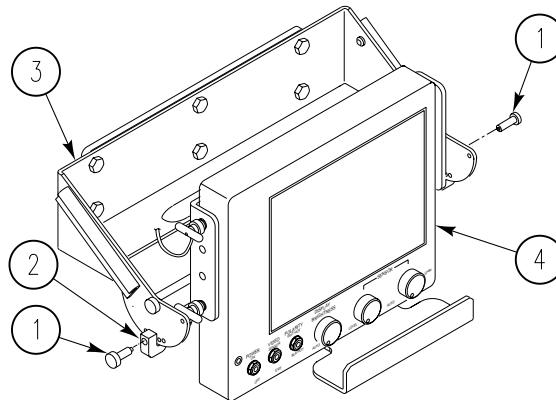
6. Position commander's display (3) on bracket (2) and secure with two upper knobs (1).

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

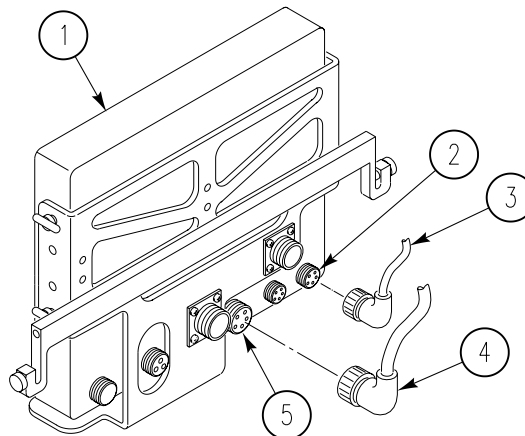
7. Swing bracket (2) with commander's display (3) up and install two lower knobs (4).



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



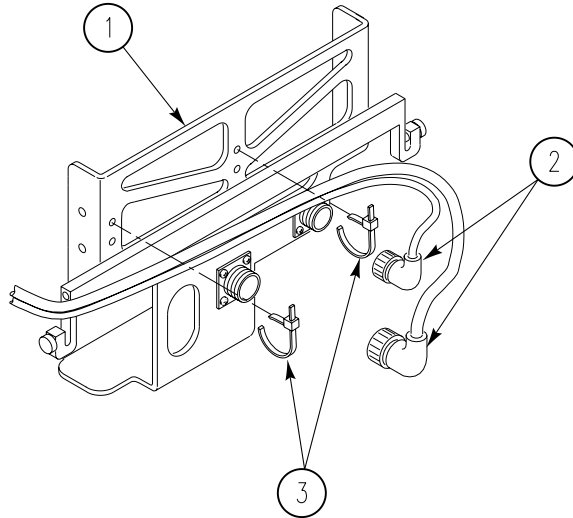
9. Install connector W3P2 (4) to connector A1J2 (5) and connector W3P3 (3) to connector A1J1 (2) on commander's display (1).



**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 STE/ICE PULSE TACHOMETER

0867 00

THIS WORK PACKAGE COVERS:

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

Engine stopped (see your -10)

Materials/Parts

Gasket

Carrier blocked (see your -10)

Personnel Required

Unit Mechanic

Air intake elbow removed (WP 0173 00)

REMOVAL

WARNING



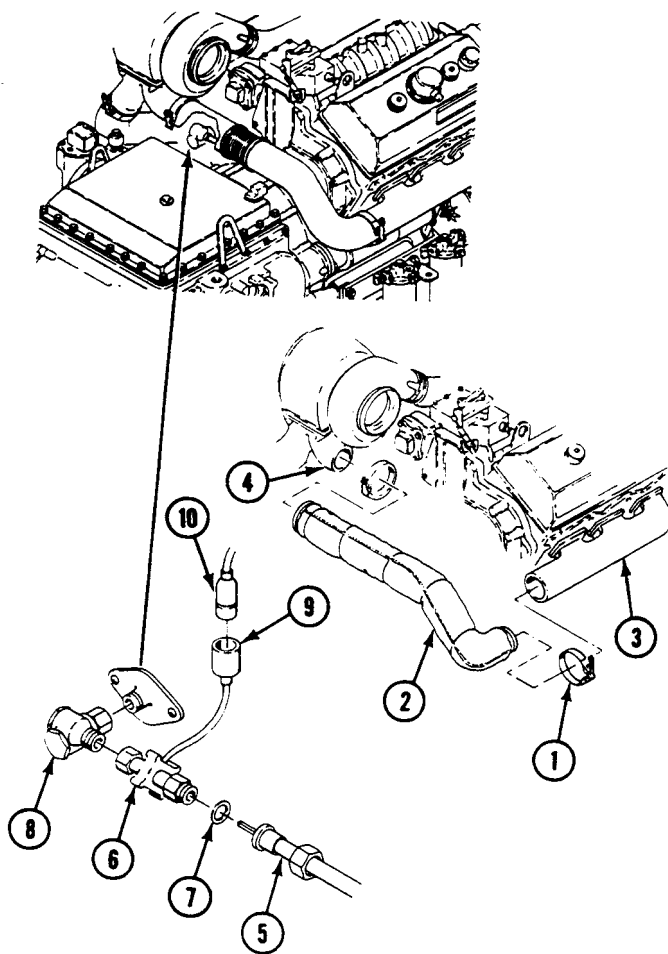
Hot exhaust pipes can burn. Let power unit cool before starting work.

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

REPLACE STE/ICE PULSE TACHOMETER — Continued

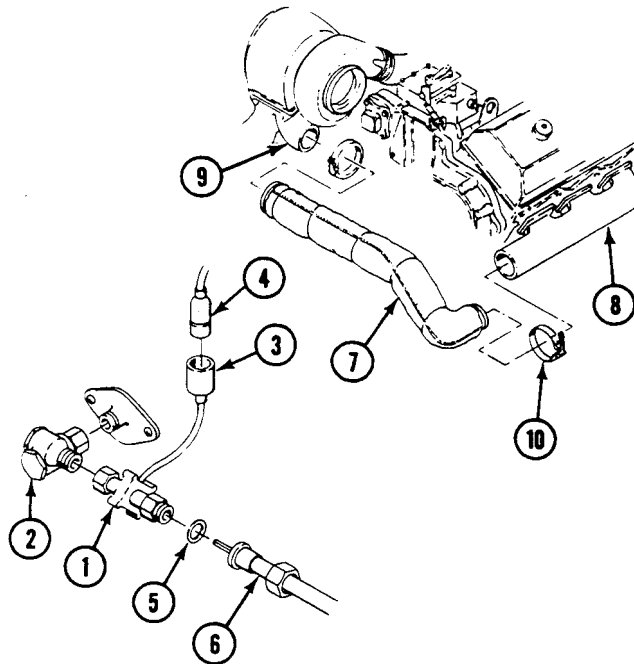
0867 00

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 STE/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

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

Lockwasher

Carrier blocked (see your -10)

Personnel Required

Unit Mechanic

Battery ground strap disconnected (WP 0337 00)

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.

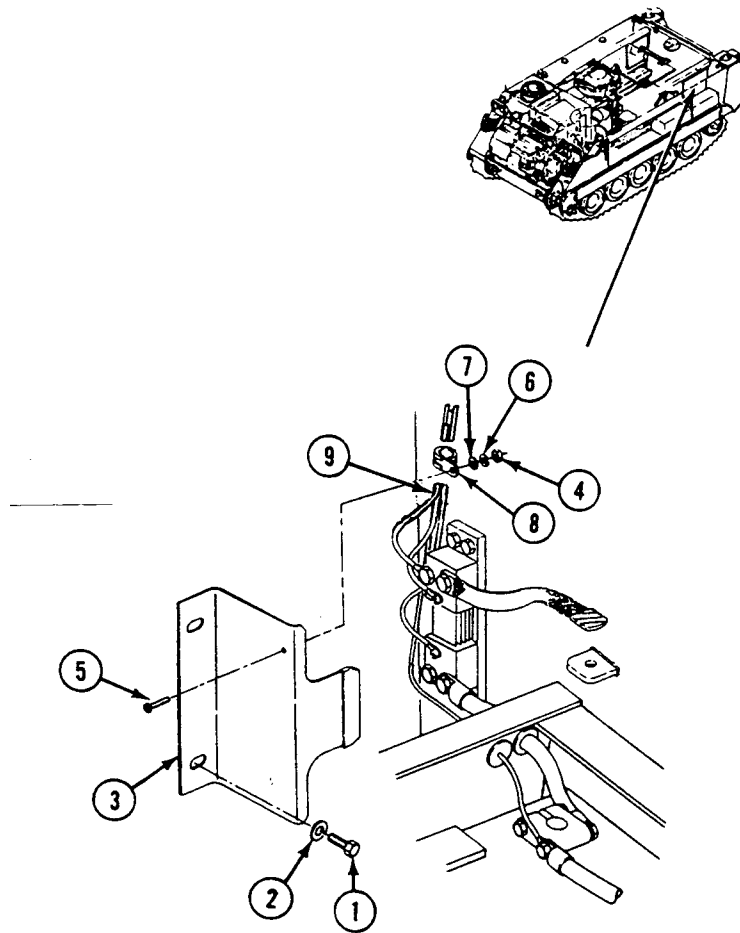
NOTE

Wiring harness is secured to underside of shunt guard.

**REPLACE STE/ICE SHUNT GUARD (M113A3 AND M1059A3 ONLY) —
Continued**

0868 00

1. Slide spill liners to gain access to battery box (see your -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.



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

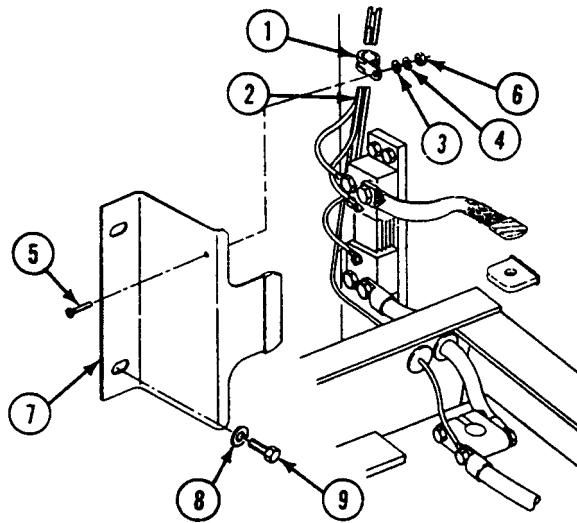
0868 00

CLEANING, INSPECTION, AND REPAIR

1. Check shunt guard for corrosion, bends, and cracks. Repair or replace damaged guard.
2. Check shunt guard 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 spill liners in place.

**FOLLOW-THROUGH STEPS**

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

END OF TASK

REPLACE STE/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

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)
 Battery ground strap disconnected (WP 0337 00)
 Left rear spall liner open (see your -10)
 Shunt guard removed (WP 0868 00).

Materials/Parts

Insulation tape (WP 0928 00, Item 35)
 Lockwasher (5)
 Lockwasher (4)

Personnel Required

Unit Mechanic

REMOVAL

WARNING

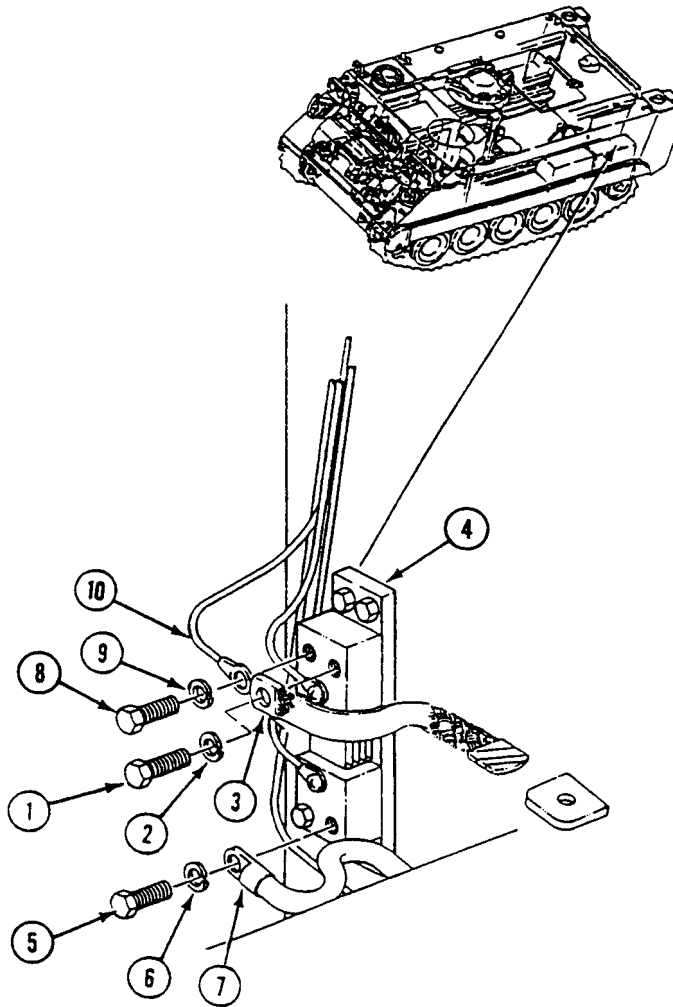


Battery posts and power cables can short circuit and burn you.

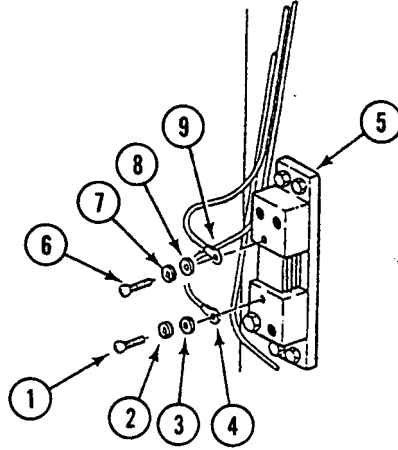
Remove vehicle ground cable before starting task. Do not touch battery posts with tools or other metal objects. Do not wear jewelry when working with battery or electrical system.

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

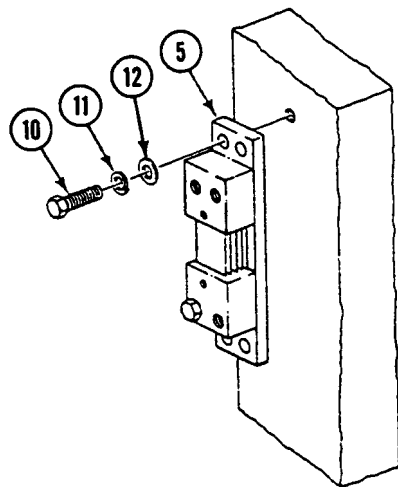
1. Remove screw (1), lockwasher (2), and battery ground strap (3) from shunt (4). Discard lockwasher.
2. Remove two screws (5), lockwashers (6), and battery lead (7) from shunt (4). Tape battery lead. Discard lockwashers.
3. Remove screw (8), lockwasher (9), and lead 770 (10) from shunt (4). Discard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



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.

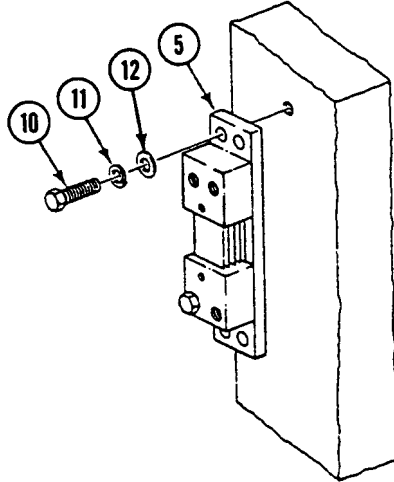


6. Remove four screws (10), lockwashers (11), washers (12), and shunt (5) from hull. Discard lockwashers.

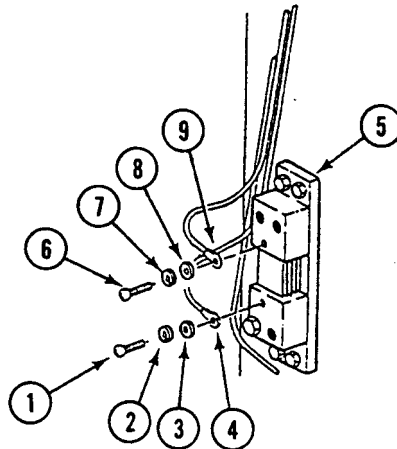


INSTALLATION

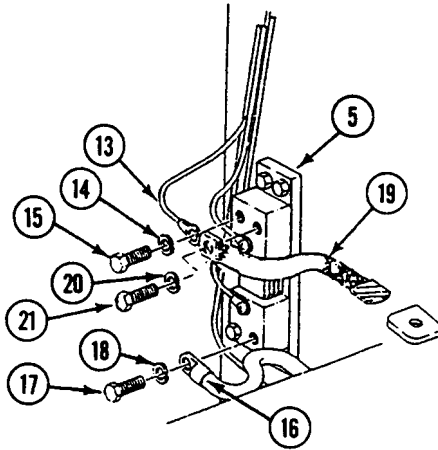
1. Install shunt (5) on hull. Secure with four screws (10), new lockwashers (11) and washers (12).



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).



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 your -10).

END OF TASK

REPLACE STE/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)

References

See your -10

Materials/Parts

Lockwasher (5)
 Lockwasher (4)
 Tape

Equipment Condition

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

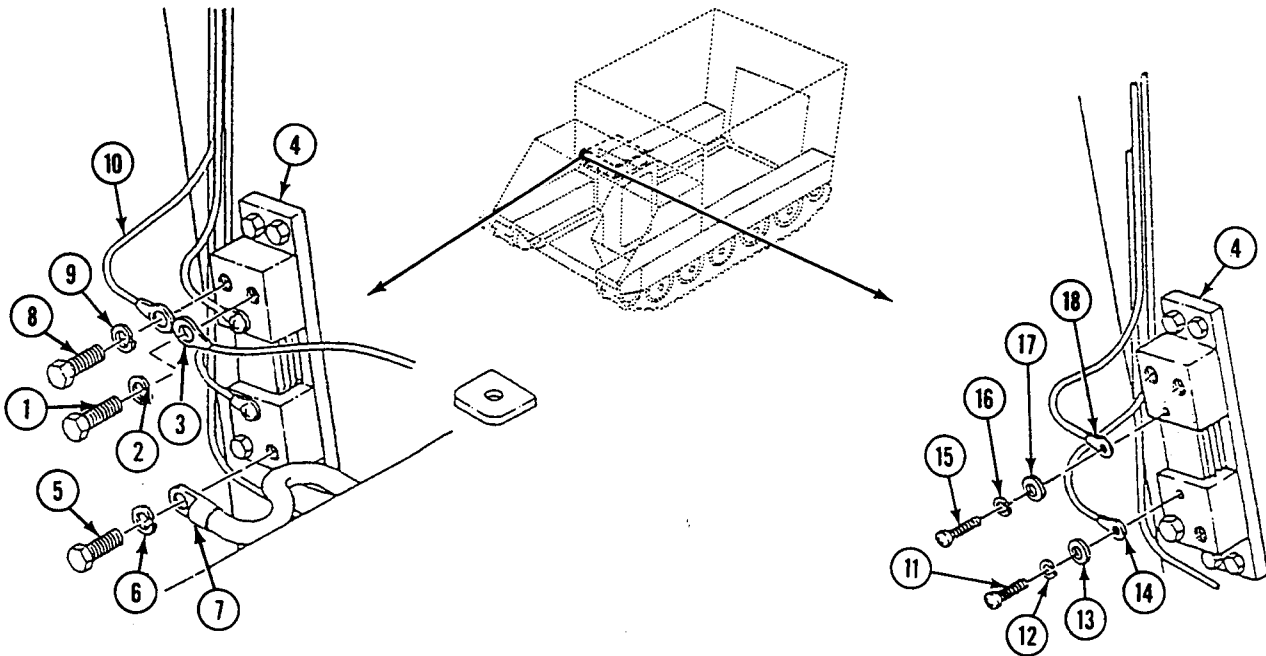
REMOVAL

WARNING

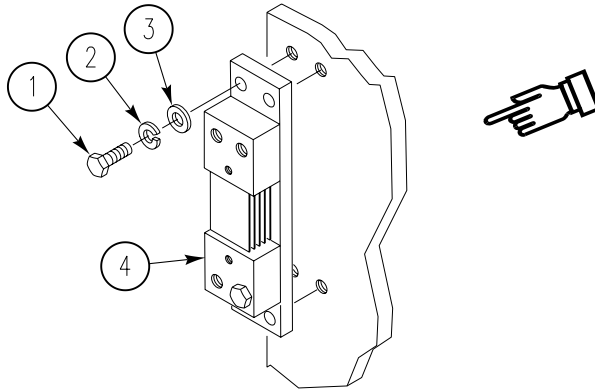


Battery posts and cables touched by metal objects can short circuit and burn you. Use caution when you work with tools or other metal objects. Do not wear jewelry when you work on electrical system.

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.

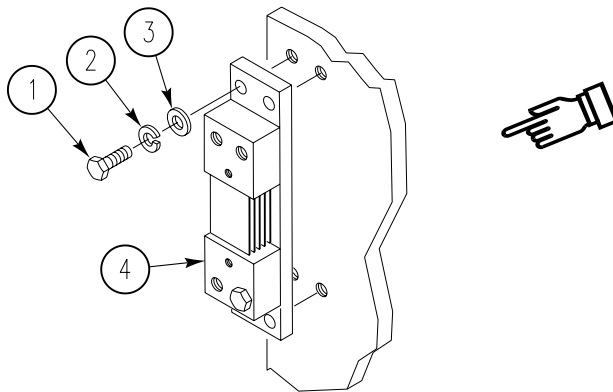


- Remove four screws (1), lockwashers (2), washers (3), and shunt (4) from hull. Discard lockwashers.

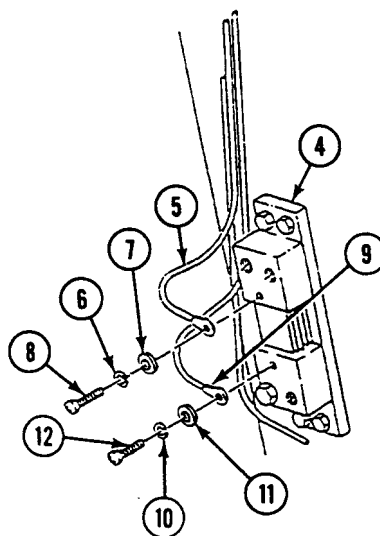


INSTALLATION

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



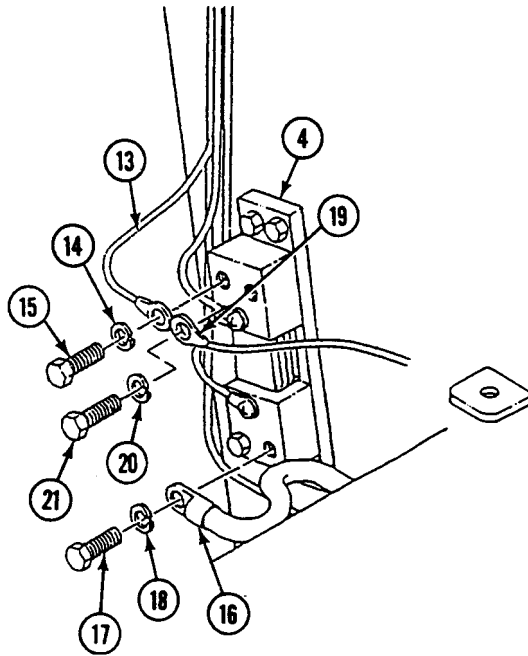
- Install lead 780 (5), new lockwasher (6), washer (7), and screw (8) on shunt (4).
- Install lead 781 (9), new lockwasher (10), washer (11), and screw (12) on shunt (4).



REPLACE STE/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 STE/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)

References

See your -10

Materials/Parts

Lockwasher (5)
 Locknut (4)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Battery ground strap disconnected (WP 0337 00)

REMOVAL

WARNING

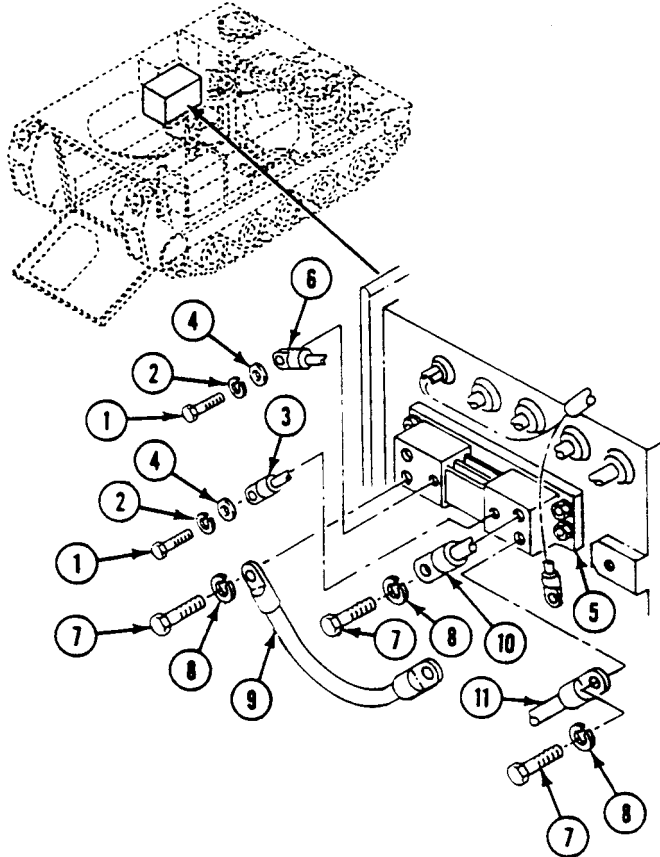


Battery posts and cables touched by metal objects can short circuit and burn you. Use caution when you work with tools or other metal objects. Do not wear jewelry when you work on electrical system.

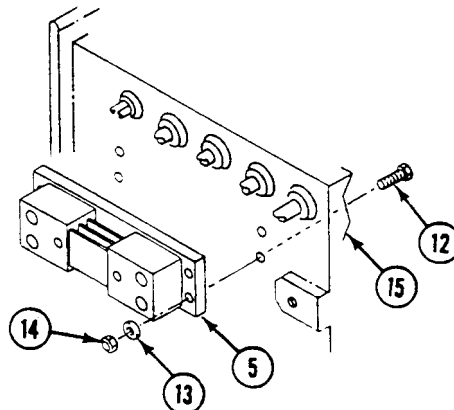
REPLACE STE/ICE SHUNT (M1064A3 ONLY) — Continued

0873 00

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.

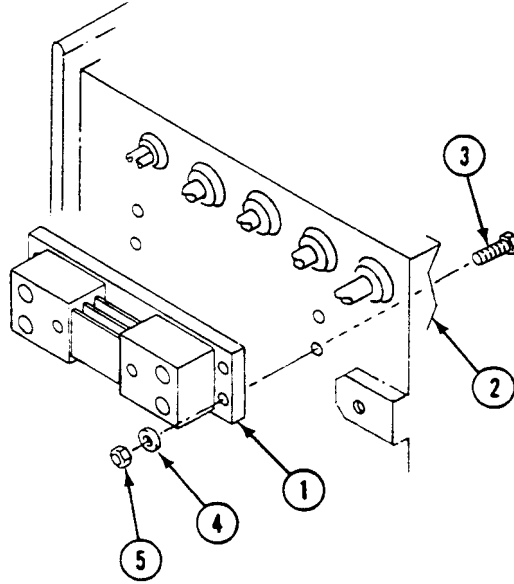


6. Remove four screws (12), washers (13), locknuts (14), and shunt (5) from battery compartment (15). Discard locknuts.



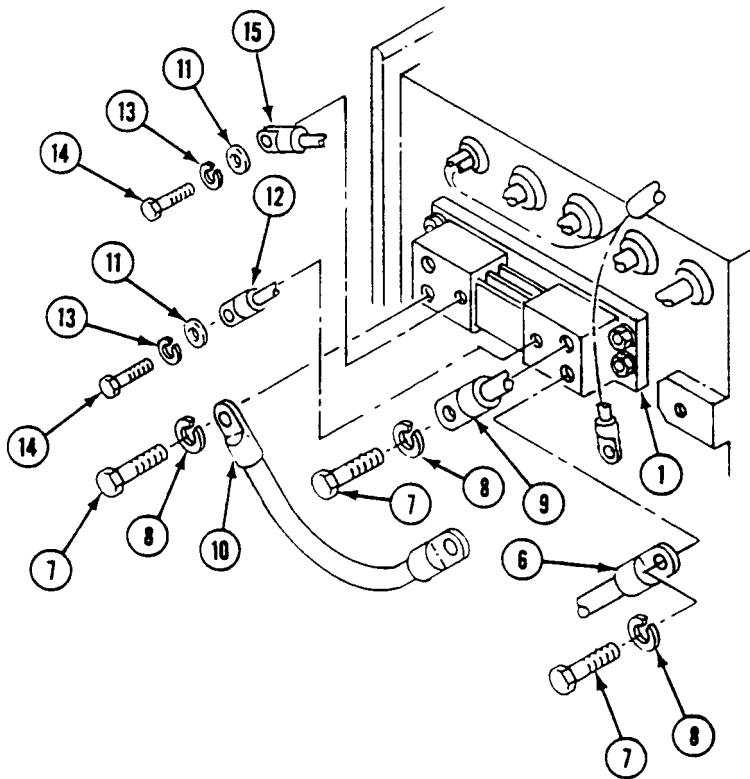
INSTALLATION

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



REPLACE STE/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 your -10).
3. Turn all switches OFF (see your -10).

END OF TASK

REPLACE STE/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

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)

Battery ground strap disconnected (WP 0337 00)

Materials/Parts

Lockwasher

Lockwasher (4)

Insulation Tape (WP 0928 00, Item 29)

Personnel Required

Unit Mechanic

REMOVAL

WARNING

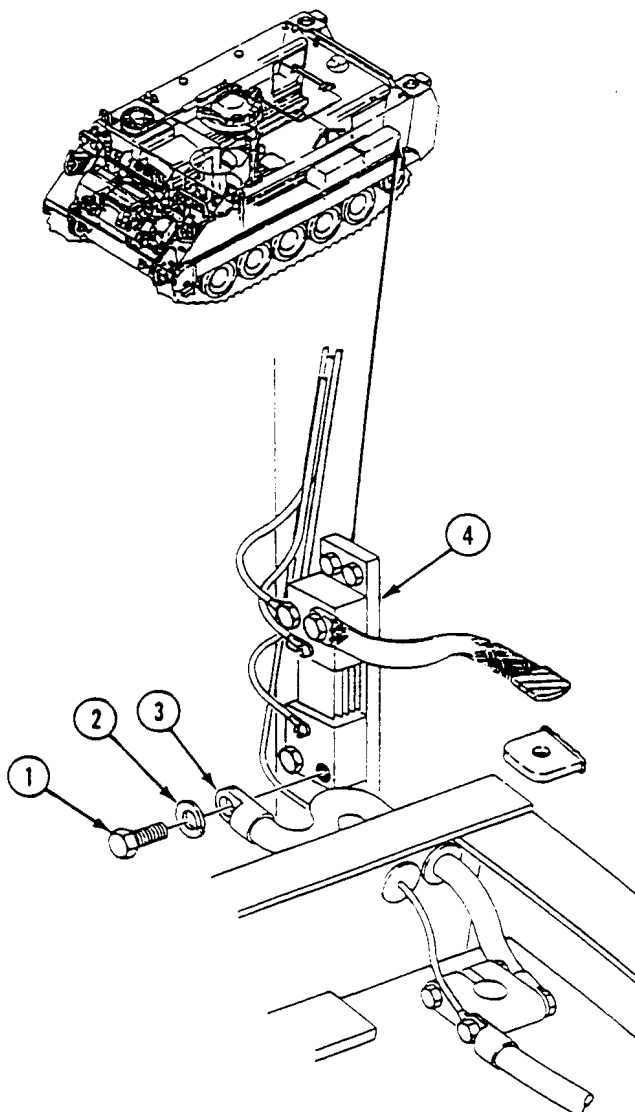


Battery posts and cables touched by metal objects can short circuit and burn you. Use caution when you work with tools or other metal objects. Do not wear jewelry when you work on electrical system.

1. Slide spall liners to gain access to battery box (see your -10).
2. Remove shunt guard (WP 0868 00).

REPLACE STE/ICE DISTRIBUTION BOX (M113A3 AND M1059A3 ONLY) — Continued**0874 00**

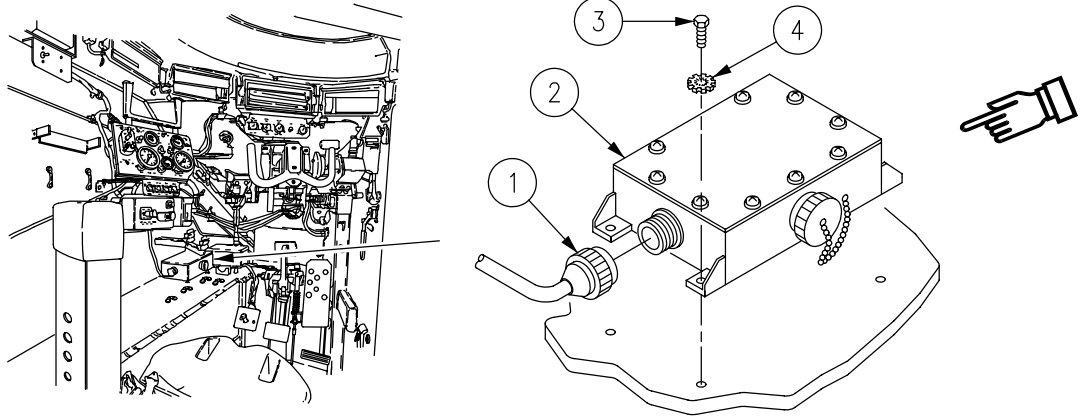
3. Remove screw (1), lockwasher (2), and battery negative lead (3) from shunt (4). Tape battery lead. Discard lockwasher.



REPLACE STE/ICE DISTRIBUTION BOX (M113A3 AND M1059A3 ONLY) — Continued

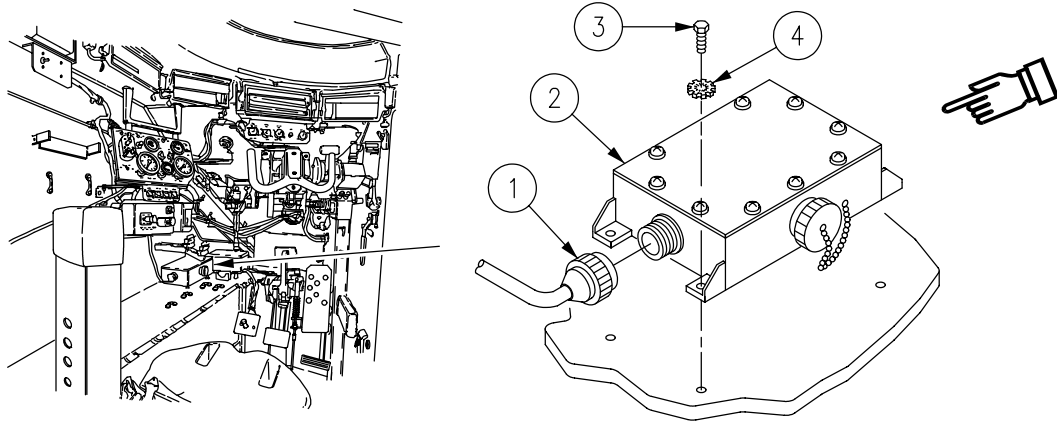
0874 00

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



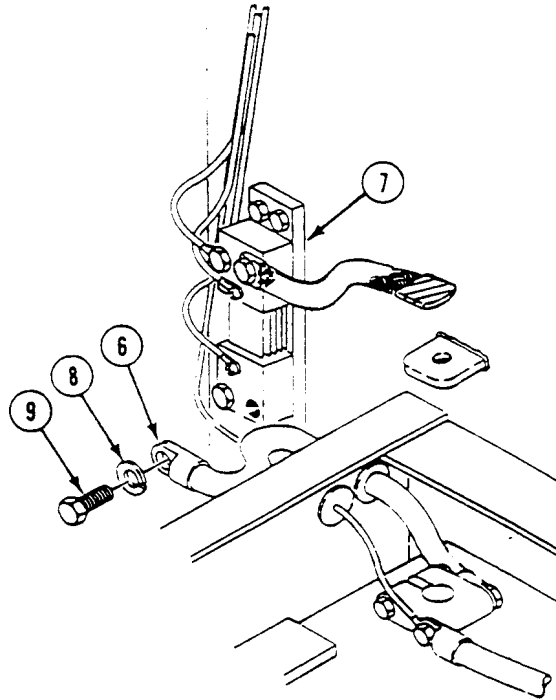
INSTALLATION

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



REPLACE STE/ICE DISTRIBUTION BOX (M113A3 AND M1059A3 ONLY) — Continued**0874 00**

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 positions (see your -10).

FOLLOW-THROUGH STEPS

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

END OF TASK

REPLACE STE/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)

References

See your -10

Materials/Parts

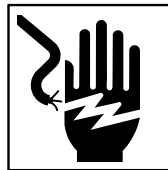
- Insulation Tape (WP 0928 00, Item 29)
- Lockwasher (4)
- Lockwasher

Equipment Condition

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

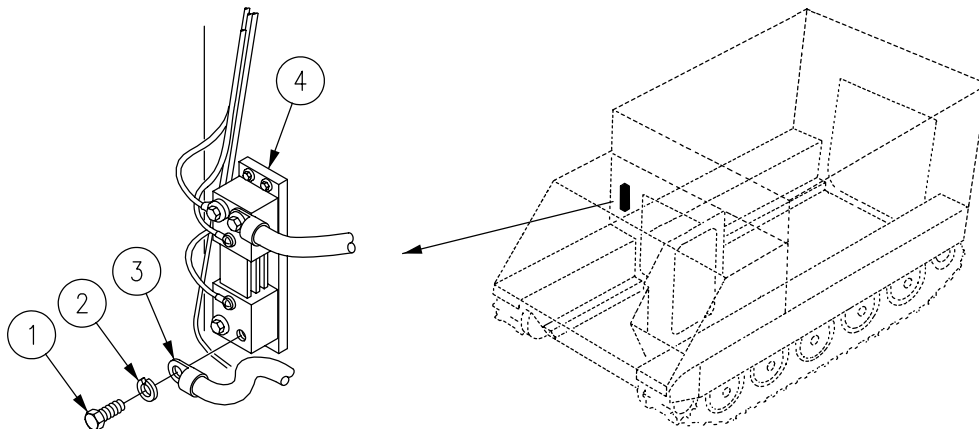
REMOVAL

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.

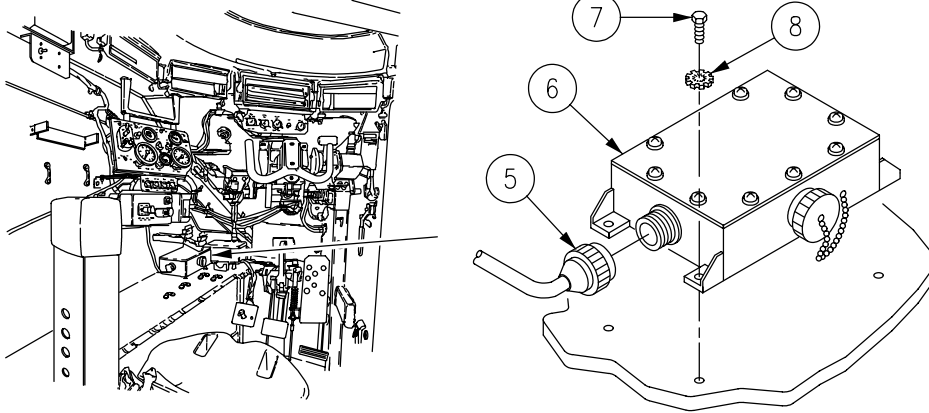
1. Remove screw (1), lockwasher (2), and negative battery lead (3) from shunt (4). Tape battery lead. Discard lockwasher.



REPLACE STE/ICE DISTRIBUTION BOX (M577A3 AND M1068A3 ONLY) — Continued

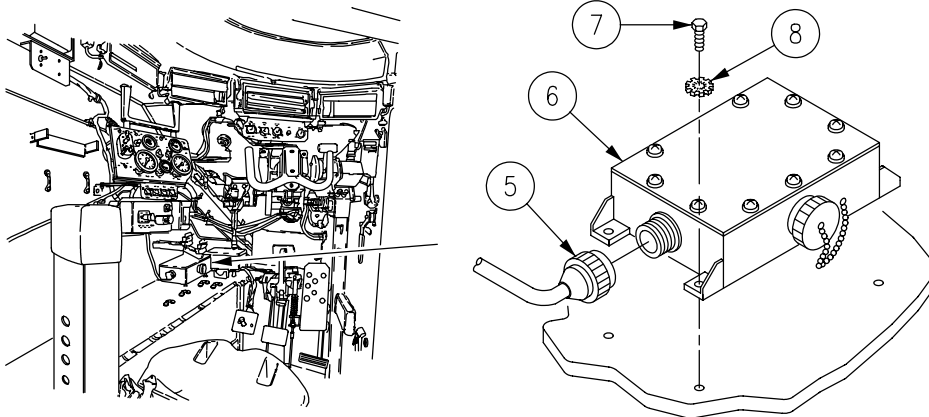
0875 00

2. Remove electrical connector (5) from distribution box (6).
3. Remove four screws (7), lockwashers (8), and distribution box (6). Discard lockwashers.

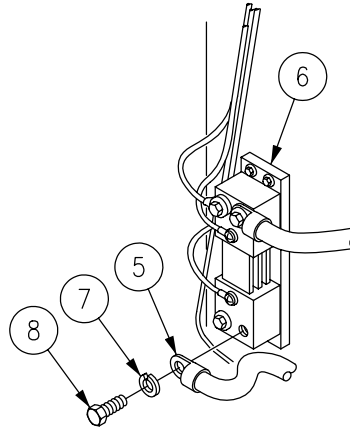


INSTALLATION

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 STE/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)

References

See your -10

Materials/Parts

Lockwasher (4)
 Lockwasher (2)
 Tape

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Battery ground strap disconnected (WP 0337 00)

REMOVAL

WARNING

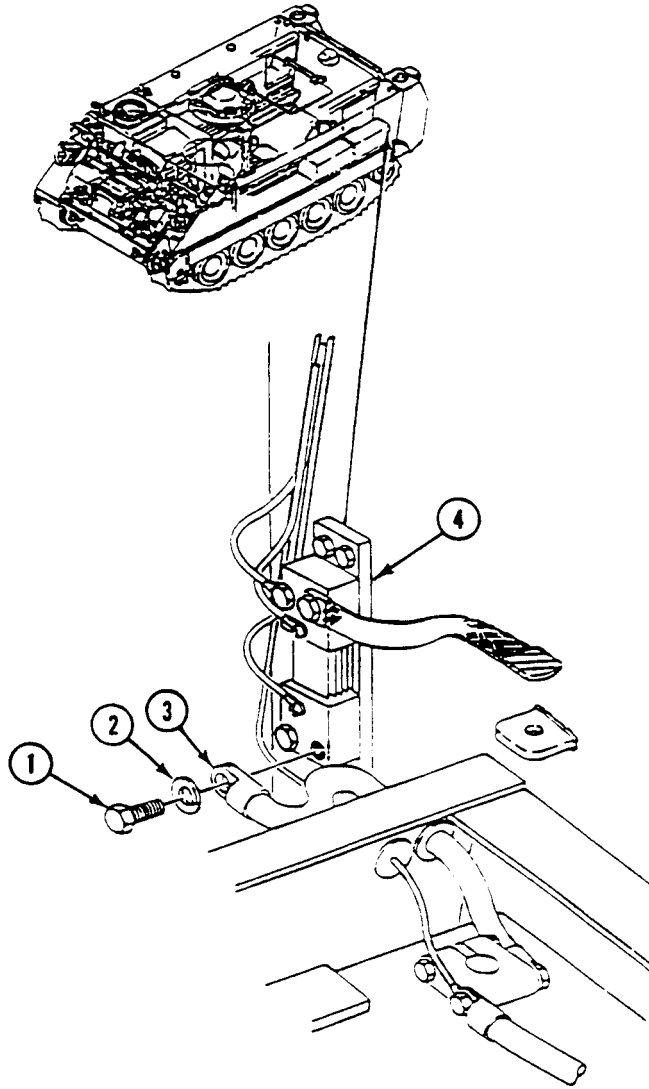


Battery posts and cables touched by metal objects can short circuit and burn you. Use caution when you work with tools or other metal objects. Do not wear jewelry when you work on electrical system.

REPLACE STE/ICE DISTRIBUTION BOX (M1064A3 ONLY) — Continued

0877 00

1. Remove two screws (1), lockwashers (2), and negative battery leads (3) from shunt (4). Tape battery leads. Discard lockwashers.

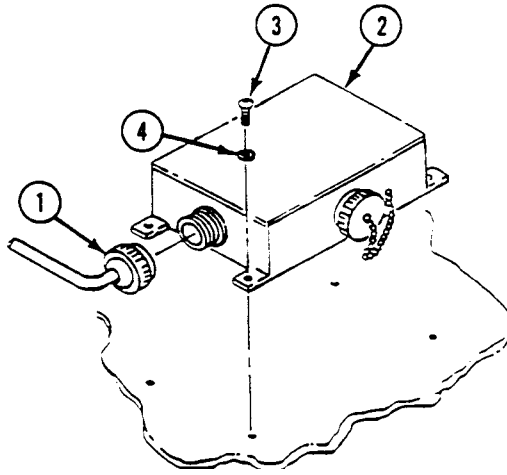


2. Remove electrical connector (1) from distribution box (2).

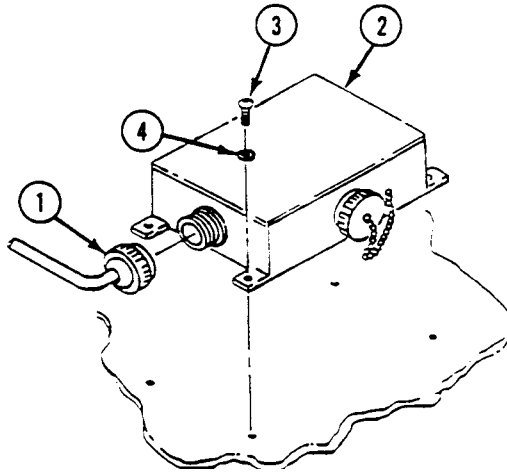
REPLACE STE/ICE DISTRIBUTION BOX (M1064A3 ONLY) — Continued

0877 00

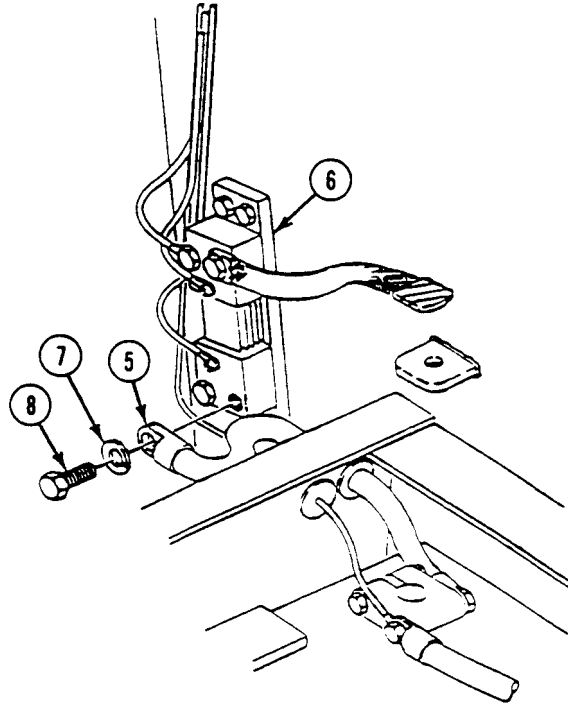
3. Remove four screws (3), lockwashers (4), and distribution box (2). Discard lockwashers.

**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 STE/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

References

See your -10

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 (see your -10)
- Carrier blocked (see your -10)
- Power plant front access door opened (see your -10)
- Battery covers removed (see your -10)
- Shunt guard removed (WP 0868 00)
- Shunt leads removed (WP 0870 00)

Materials/Parts

- Locknut (4)
- Lockwasher (21)

Personnel Required

- Unit Mechanic
- Helper (H)

REMOVAL

WARNING



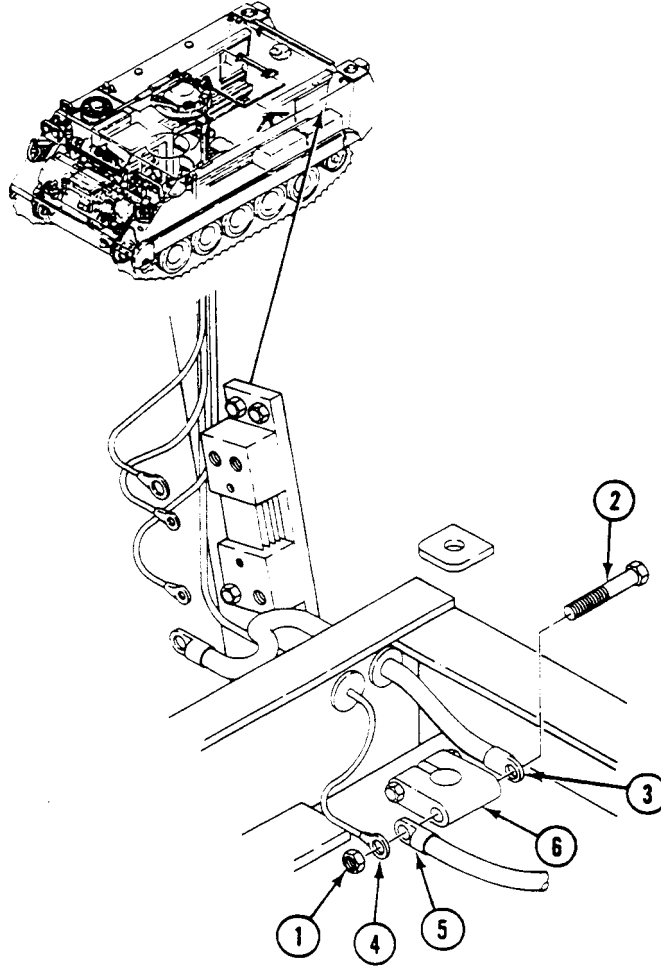
Battery posts and cables touched by metal objects can short circuit and burn you. Use caution when you work with tools or other metal objects. Do not wear jewelry when you work on electrical system.

REPLACE STE/ICE CREW WIRING HARNESS (M113A3 AND M1059A3 ONLY)

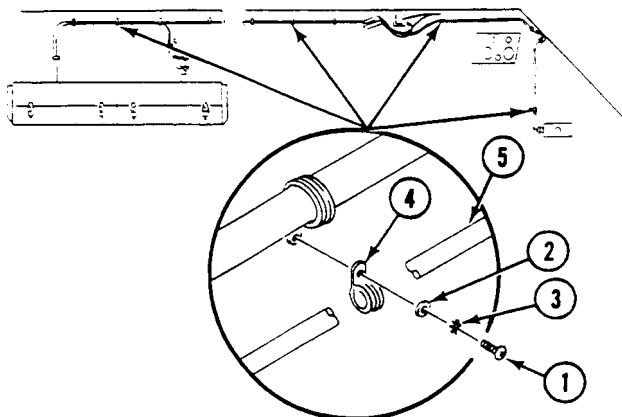
0878 00

— Continued

1. Remove nut (1), screw (2), battery ground lead (3), lead 779 (4), and battery cable (5) from battery terminal (6).

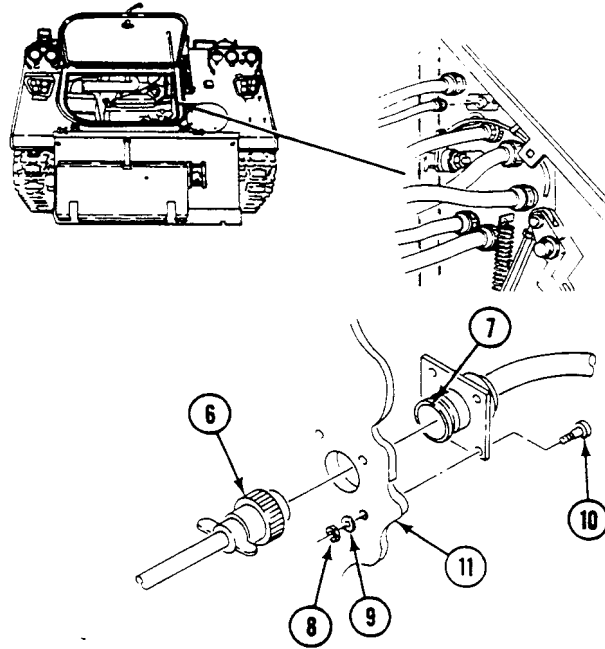


2. Remove 21 screws (1), washers (2), lockwashers (3), and clamps (4) that secure wiring harness (5) to hull. Discard lockwashers.

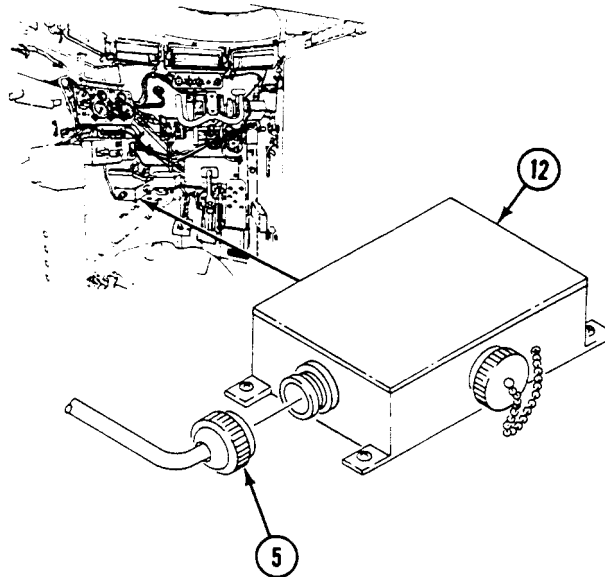


REPLACE STE/ICE CREW WIRING HARNESS (M113A3 AND M1059A3 ONLY)**0878 00****— Continued**

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 STE/ICE distribution box (12). Remove harness.



REPLACE STE/ICE CREW WIRING HARNESS (M113A3 AND M1059A3 ONLY)**0878 00****— Continued****INSPECTION-ACCEPTANCE AND REJECTION CRITERIA**

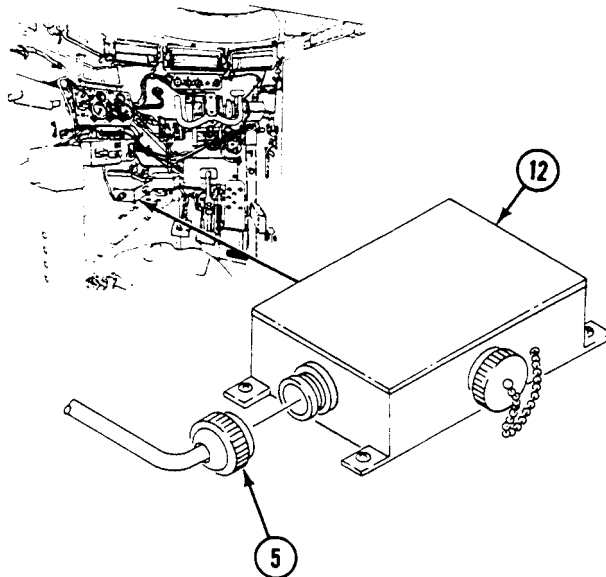
1. Check leads for continuity. Use multimeter.
2. Check connectors.

REPAIR OR REPLACEMENT

1. Replace bad leads.
2. Replace cracked or broken connectors (WP 0382 00).

INSTALLATION

1. Plug wiring harness (5) into STE/ICE distribution box (12), then route harness into position.

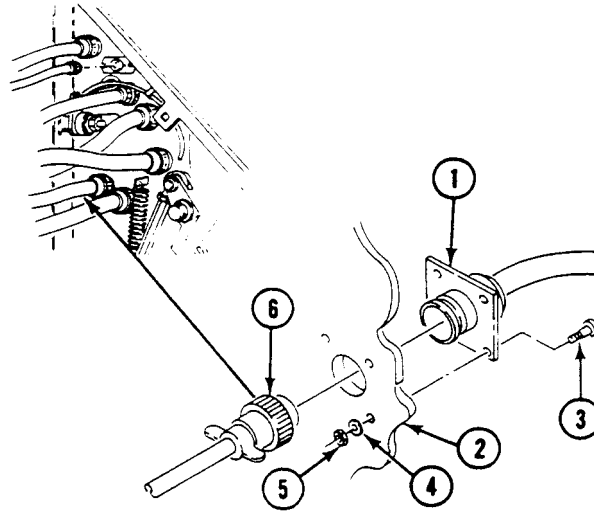


2. Install connector (1) on bulkhead (2) in power plant compartment. Secure with four screws (3), washers (4), and new locknuts (5).

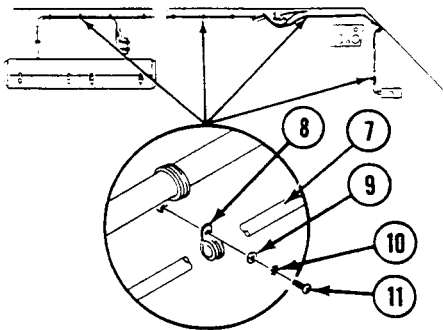
REPLACE STE/ICE CREW WIRING HARNESS (M113A3 AND M1059A3 ONLY)
— Continued

0878 00

3. Connect plug (6) to connector (1).

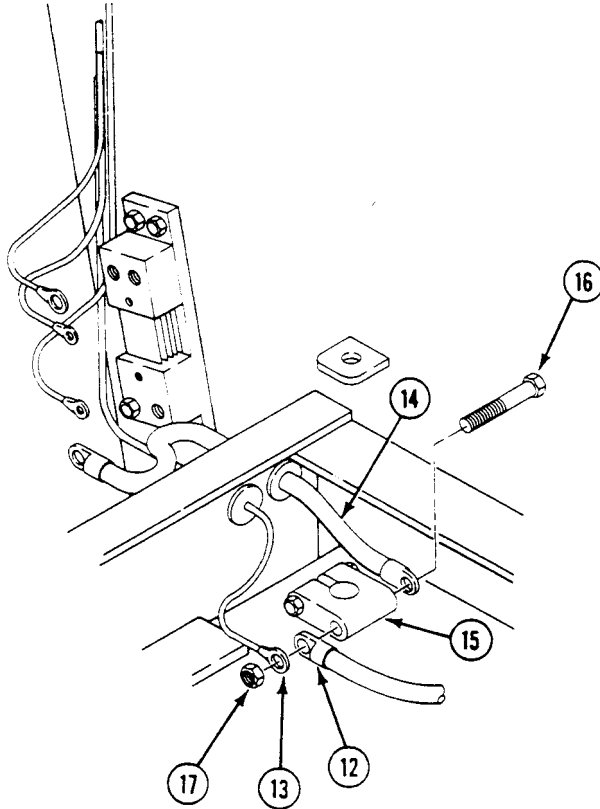


4. Position wiring harness (7) along hull. Secure with 21 clamps (8), washers (9), new lockwashers (10), and screws (11). Have helper assist.



REPLACE STE/ICE CREW WIRING HARNESS (M113A3 AND M1059A3 ONLY)**0878 00****— Continued**

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 your -10).
4. Close power plant front access door (see your -10).

END OF TASK

REPLACE STE/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY)

0879 00

THIS WORK PACKAGE COVERS:

- Removal (page 0879 00-1).
- Inspection (page 0879 00-4).
- Repair (page 0879 00-4).
- 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

References

See your -10

Materials/Parts

- Locknut (4)
- Lockwasher
- Straps (8)

Equipment Condition

- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- Power plant front access door opened (see your -10)
- Battery covers removed (see your -10)
- Shunt leads removed (WP 0871 00)

REMOVAL

WARNING

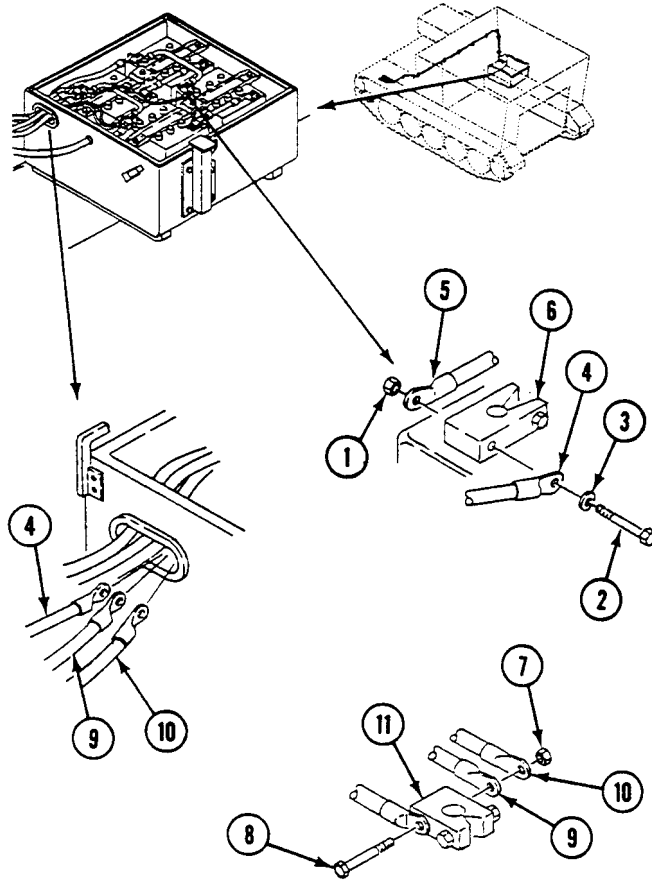


Battery posts and cables touched by metal objects can short circuit and burn you. Use caution when you work with tools or other metal objects. Do not wear jewelry when you work on electrical system.

REPLACE STE/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY) —
Continued

0879 00

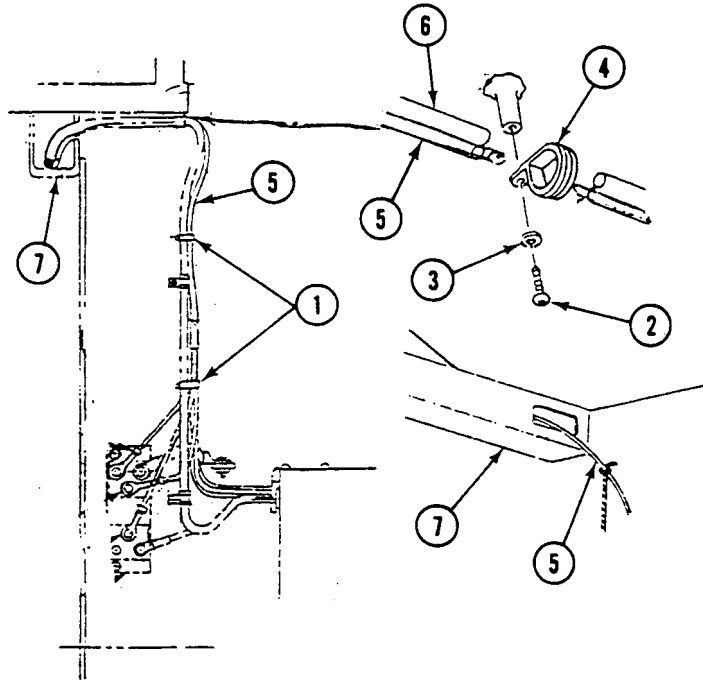
1. Remove nut (1), screw (2), washer (3), lead 779 (4), and battery cable (5) from battery terminal (6).
2. Remove nut (7), screw (8), lead 772 (9), and lead 778 (10) from battery terminal (11).
3. Remove lead 779 (4), lead 772 (9), and lead 778 (10) from battery box.



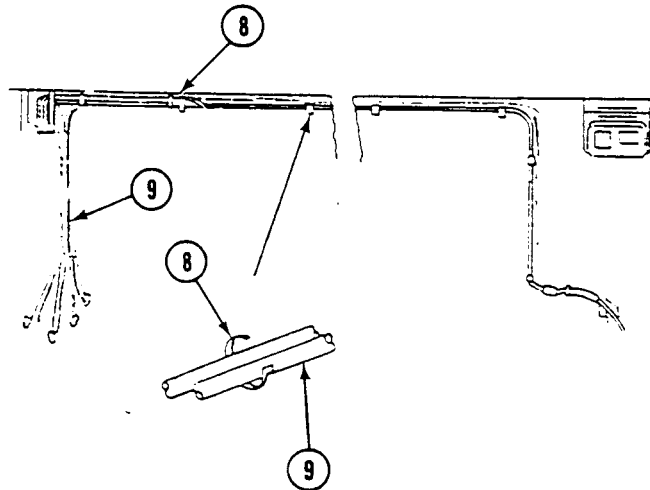
REPLACE STE/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY) —
Continued

0879 00

4. Remove two straps (1), screw (2), lockwasher (3), and clamp (4) from harness (5) and cable (6). Discard straps and lockwasher.
5. Attach cord securely to harness (5). Pull harness through transverse beam (7) from opposite side of carrier. Remove cord from harness (5) and leave hanging from both ends of transverse beam to use when reinstalling harness.

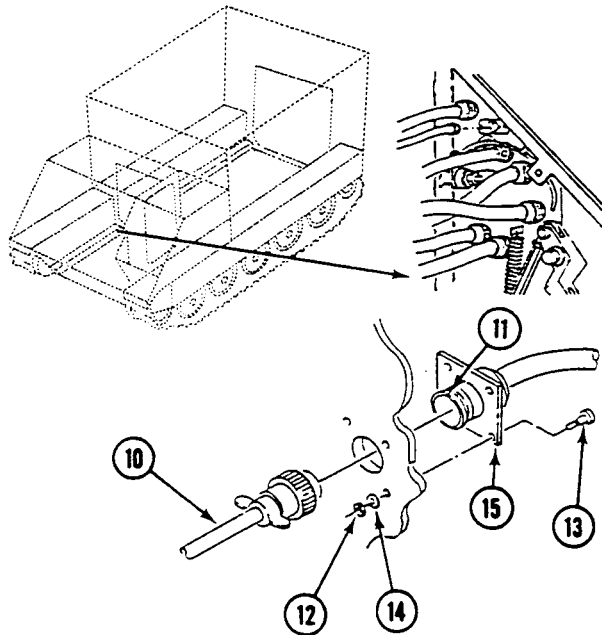


6. Remove seven straps (8) from harness (9). Discard straps.

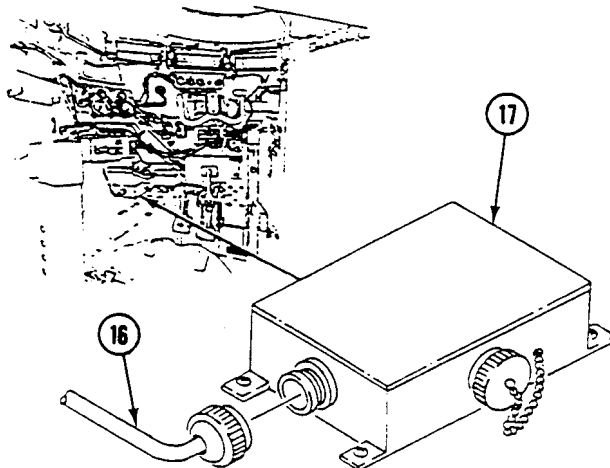


REPLACE STE/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY) —**0879 00****Continued**

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 STE/ICE distribution box (17). Remove harness.

**INSPECTION-ACCEPTANCE AND REJECTION CRITERIA**

1. Check leads for continuity. Use multimeter.
2. Check connectors.

REPAIR OR REPLACEMENT

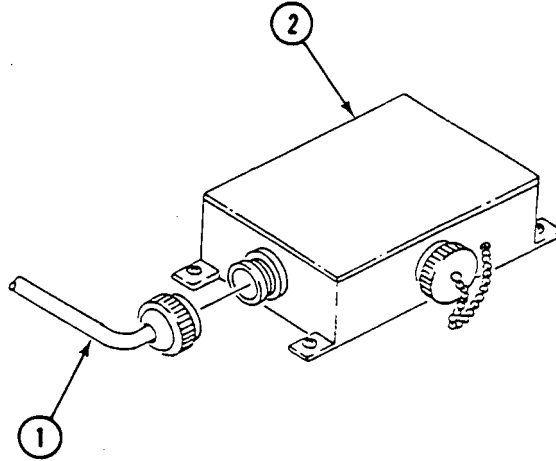
1. Replace bad leads.
2. Replace cracked or broken connectors (WP 0382 00).

**REPLACE STE/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY) —
Continued**

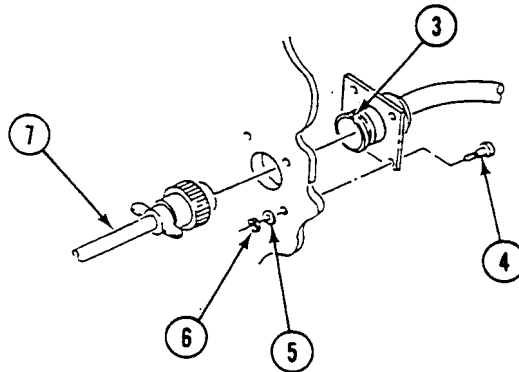
0879 00

INSTALLATION

1. Plug wiring harness (1) into STE/ICE distribution box (2). Position harness on hull.



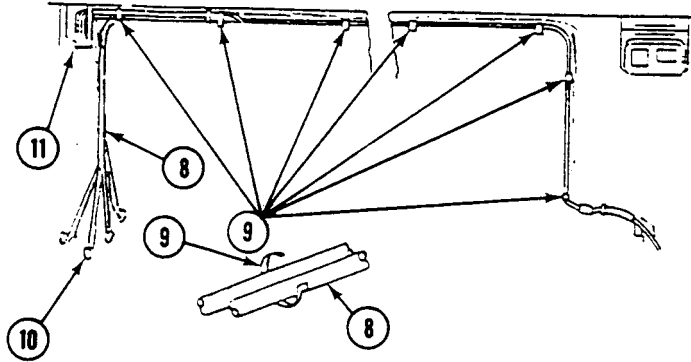
2. Install connector (3) on bulkhead in power plant compartment. Secure with four screws (4), washers (5), and new locknuts (6). Have helper assist.
3. Connect plug (7) to connector (3).



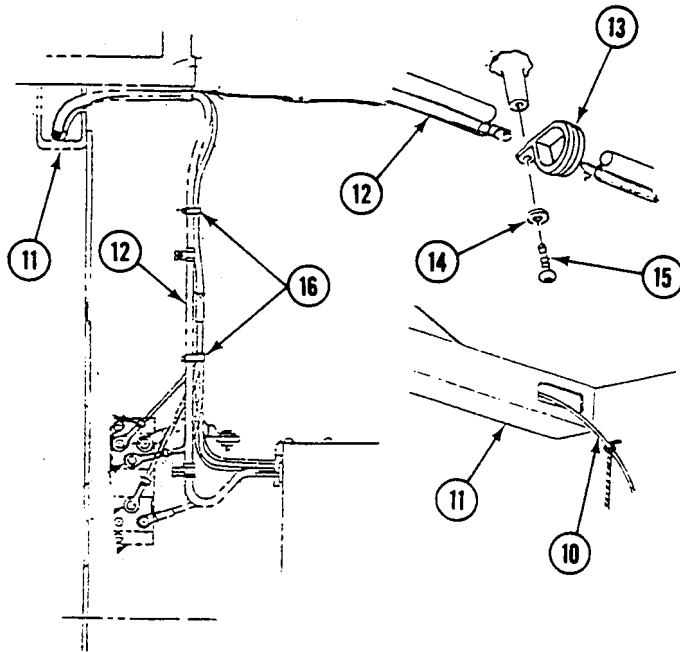
REPLACE STE/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY) —
Continued

0879 00

4. Install harness (8) along left side of hull. Secure with seven new straps (9).
5. Secure cord to battery end of harness (10). Pull cord and harness through transverse beam (11) from opposite side of carrier. Remove cord from harness.



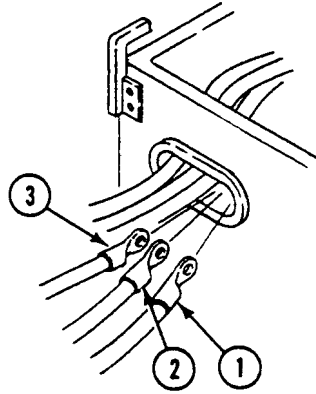
6. Position wiring harness (12) along hull. Secure with clamp (13), new lockwasher (14), screw (15), and two new straps (16).



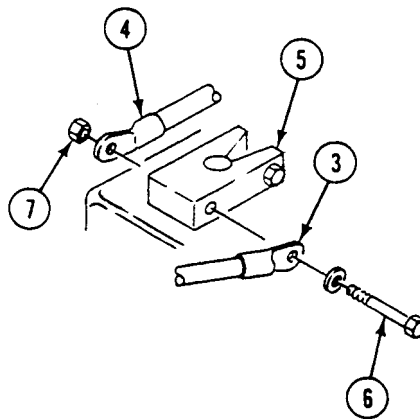
**REPLACE STE/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY) —
Continued**

0879 00

7. Route lead 778 (1), lead 772 (2), and lead 779 (3) into battery box.



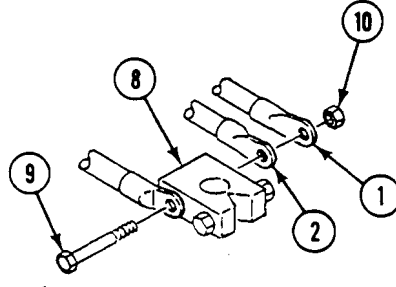
8. Install lead 779 (3) and battery ground lead (4) on battery terminal (5). Secure with screw (6) and nut (7).



REPLACE STE/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY) —
Continued

0879 00

9. Install lead 772 (2) and lead 778 (1) on battery terminal (8). Secure with screw (9) and nut (10).

**FOLLOW-THROUGH STEPS**

1. Install shunt leads (WP 0871 00).
2. Install battery box covers (see your -10).
3. Close power plant front access door (see your -10).

END OF TASK

REPLACE STE/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 00-4).

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)

References

See your -10

Materials/Parts

- Locknut (4)
- Lockwasher (8)

Equipment Condition

- Engine stopped (see your -10)
 - Carrier blocked (see your -10)
 - Power plant front access door opened (see your -10)
 - Battery draw pulled out (see your -10)
 - Shunt leads removed (WP 0873 00)
-

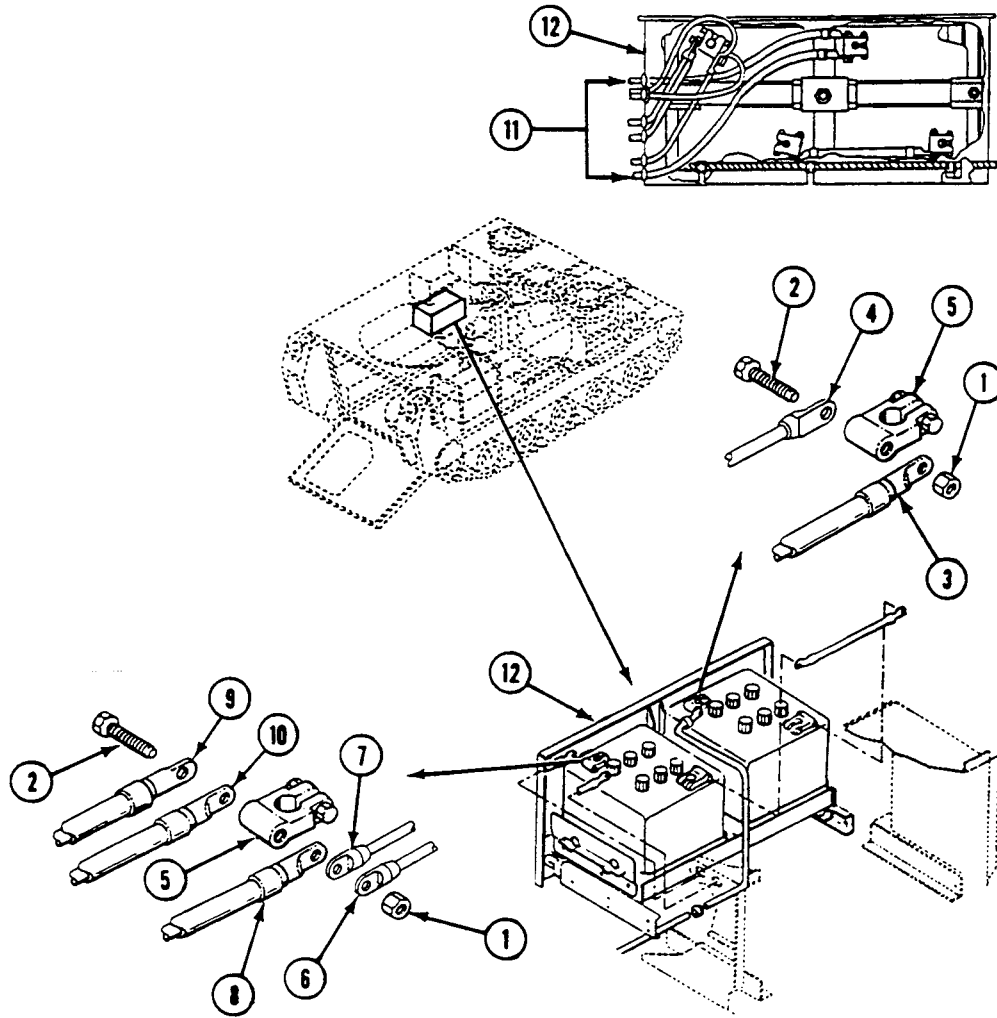
REMOVAL

WARNING

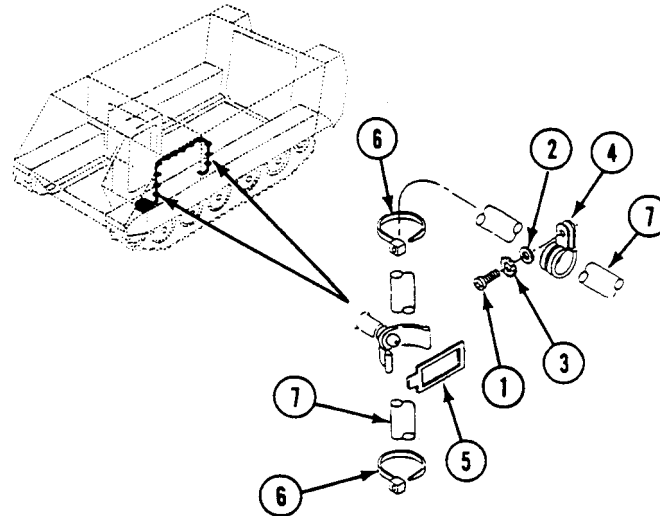


Battery posts and cables touched by metal objects can short circuit and burn you. Use caution when you work with tools or other metal objects. Do not wear jewelry when you work on electrical system.

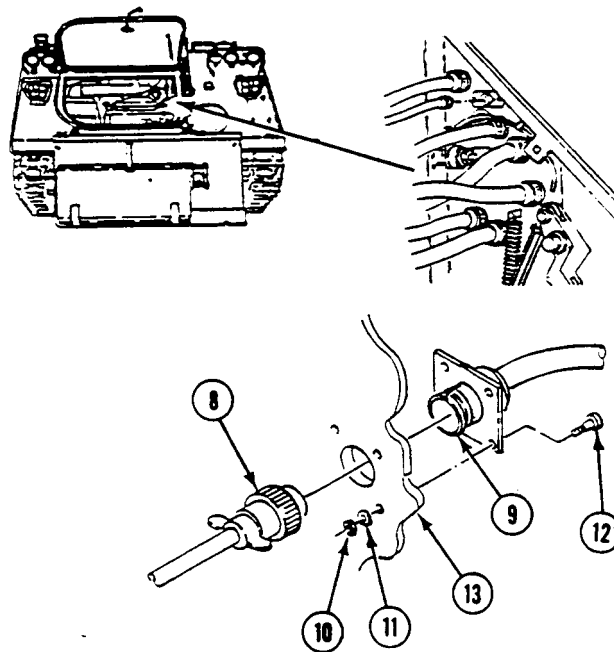
1. Remove nut (1), screw (2), battery ground cable (3), and lead 779 (4) from battery terminal (5).
2. Remove nut (1), screw (2), two leads 772/778 (6) and (7), lead 6 (8), lead 6P (9), and lead 48 (10) from battery terminal (5).
3. Remove seven leads and grommets (11) from battery box (12).



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 STE/ICE distribution box (15). Remove harness.

INSPECTION-ACCEPTANCE AND REJECTION CRITERIA

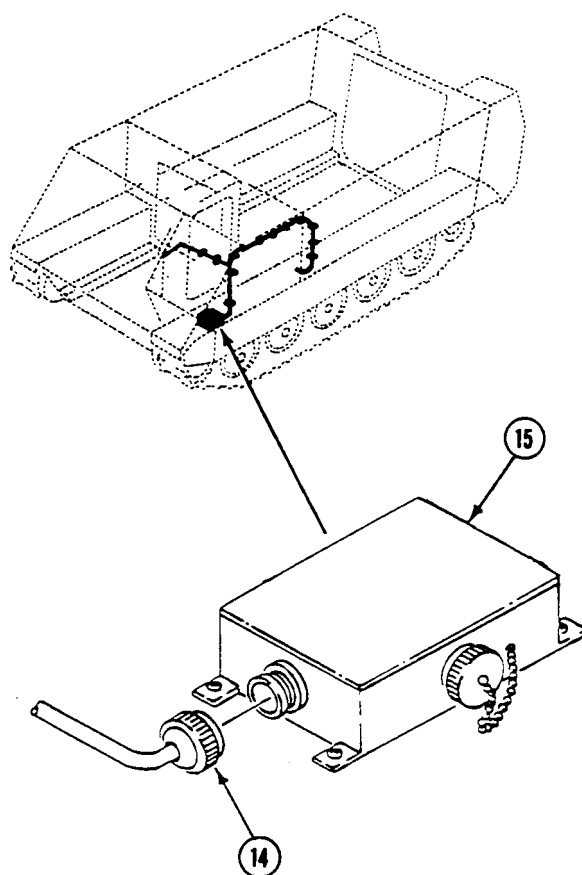
1. Check leads for continuity. Use multimeter.
2. Check connectors.

REPAIR OR REPLACEMENT

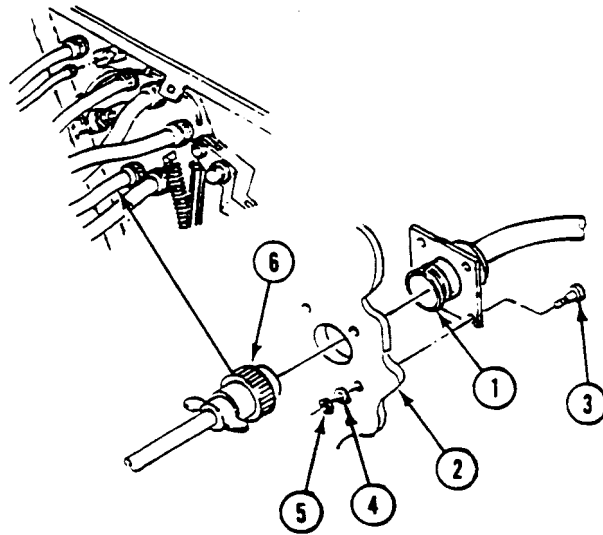
1. Replace bad leads.
2. Replace cracked or broken connectors (WP 0382 00).

INSTALLATION

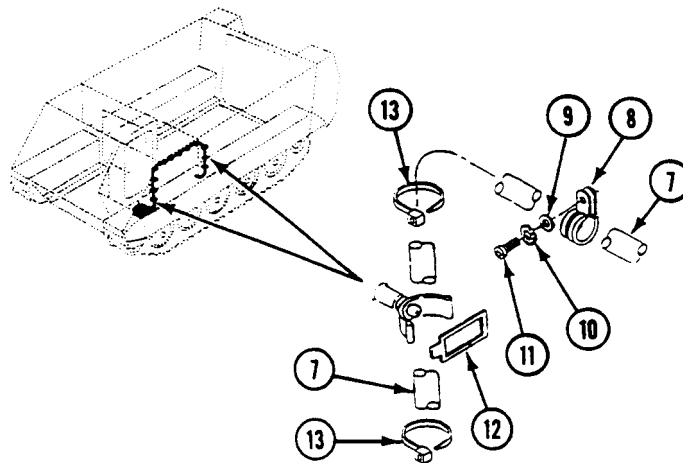
1. Plug wiring harness (14) into STE/ICE distribution box (15), then route harness into position.



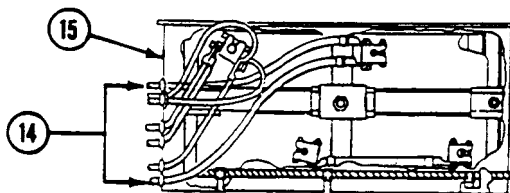
2. Install jack (1) on bulkhead (2) in power plant compartment. Secure with four screws (3), washers (4), and new locknuts (5).
3. Connect plug (6) to jack (1).



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.

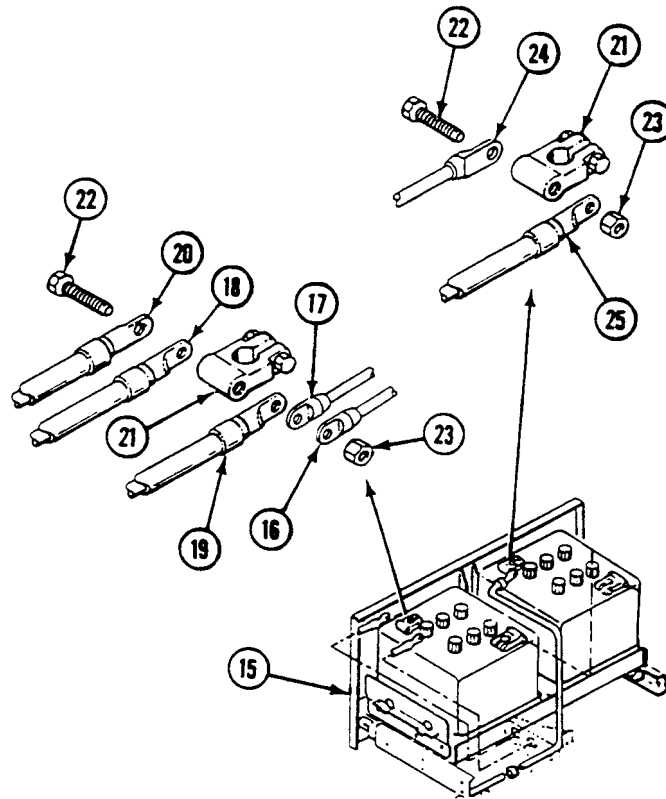


5. Install seven leads and grommets (14) in battery box (15).



REPLACE STE/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 your -10).
2. Install shunt leads (WP 0873 00).
3. Close power plant front access door (see your -10).

END OF TASK

REPLACE STE/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)

References

See your -10

Materials/Parts

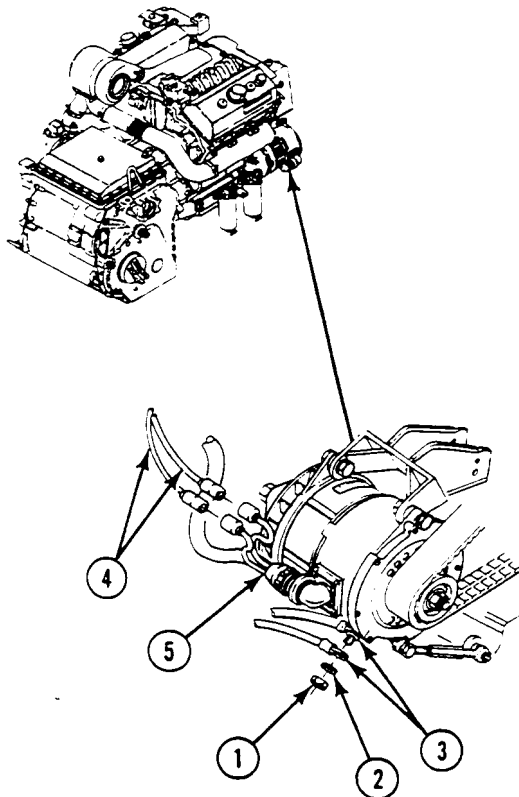
- Lockwasher (4)
- Strap
- Strap (3)

Equipment Condition

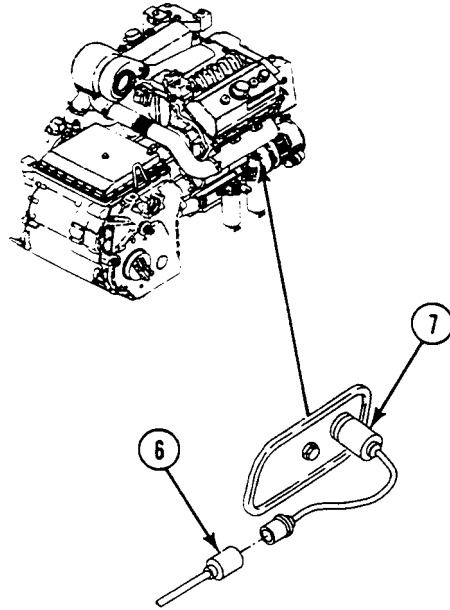
- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- Power plant removed (WP 0156 00)

REMOVAL

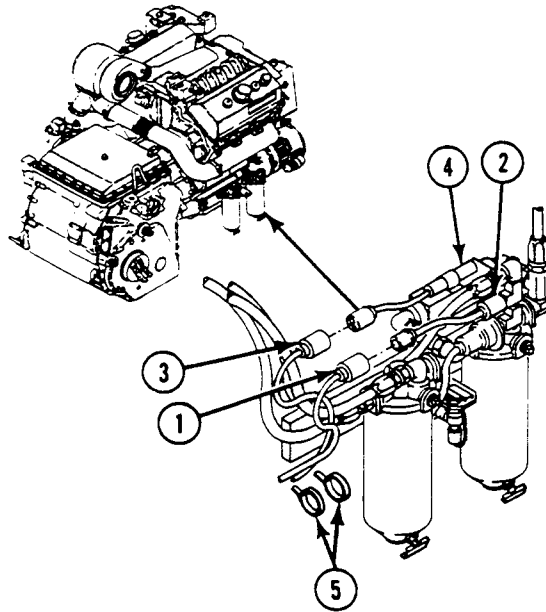
1. Remove nut (1), lockwasher (2), and two ground leads (3) from generator. Discard lockwasher.
2. Disconnect leads (4) from generator main cable (5).



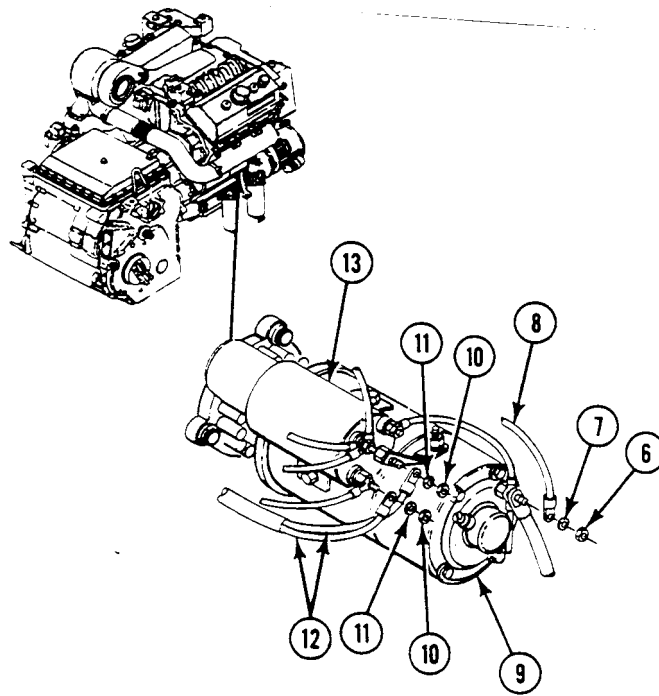
3. Disconnect lead (6) from airbox pressure transducer (7).



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.

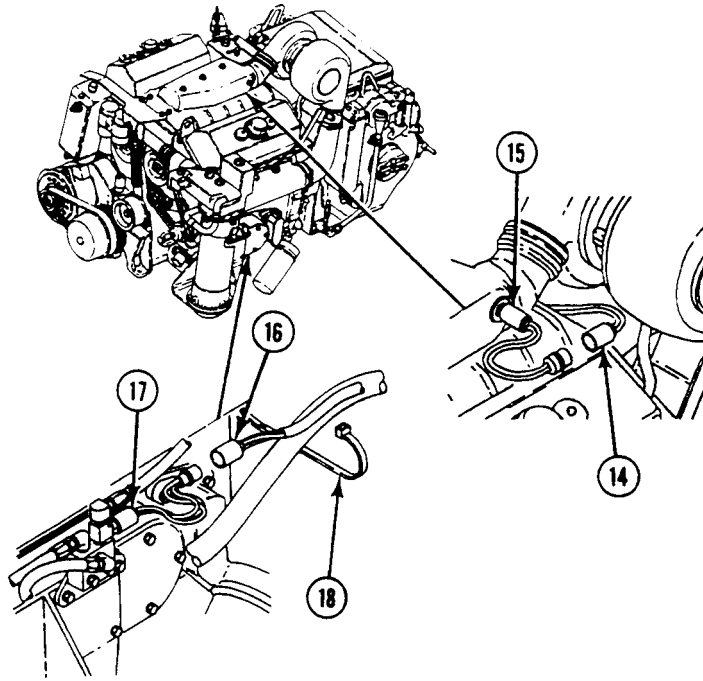


7. Remove nut (6), lockwasher (7), and leads (8) from starter (9). Discard lockwasher.
8. Remove two nuts (10), lockwashers (11), and leads (12) from starter solenoid (13) terminal. Discard lockwashers.

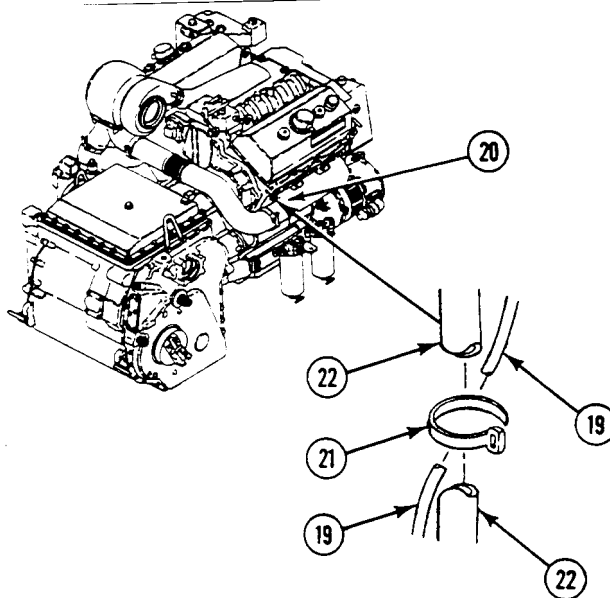


9. Disconnect lead (14) from turbo outlet pressure switch (15).
10. Disconnect lead (16) from fuel return pressure switch (17).

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

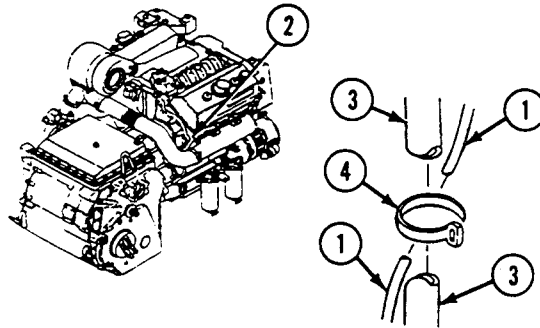
1. Check connectors.
2. Check leads for continuity.

REPAIR OR REPLACEMENT

1. Repair damaged 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).

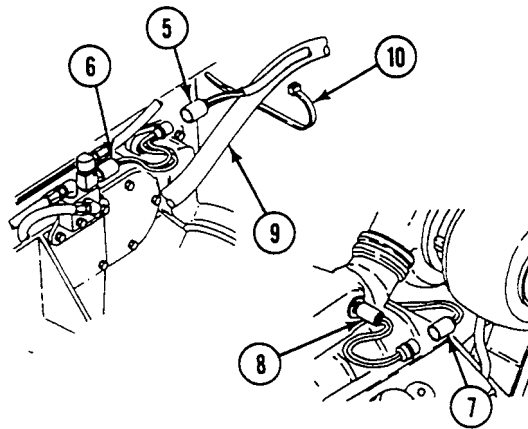


3. Connect lead (5) to fuel return pressure switch (6).
4. Connect lead (7) to turbo outlet pressure switch (8).

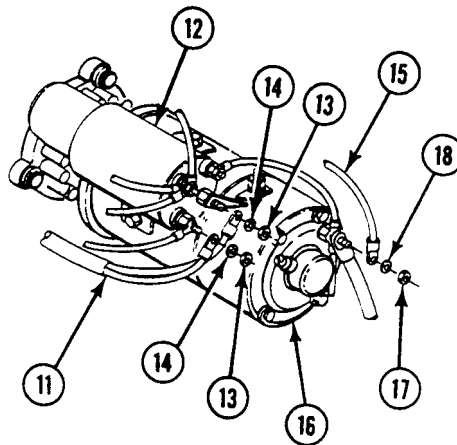
CAUTION

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).



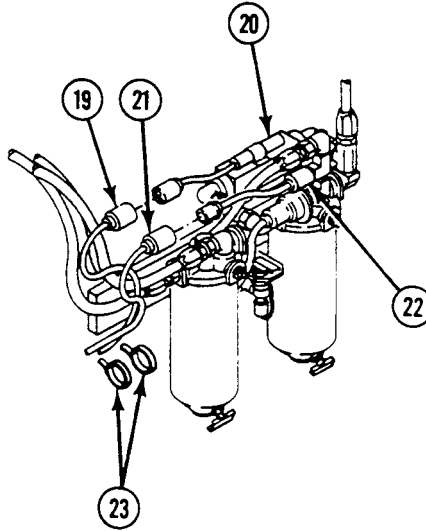
6. Install leads (11) on starter solenoid (12) terminal. Secure with two nuts (13) and new lockwashers (14).
7. Install leads (15) on starter (16) terminals. Secure with nut (17) and new lockwasher (18).



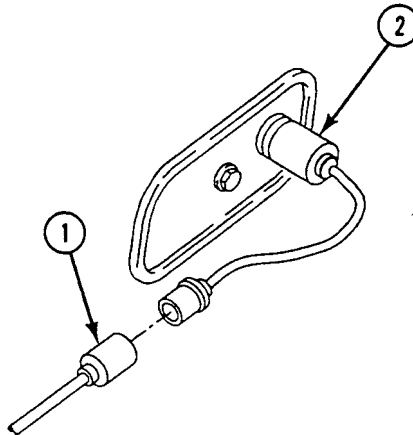
REPLACE STE/ICE ENGINE WIRING HARNESS — Continued

0882 00

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).



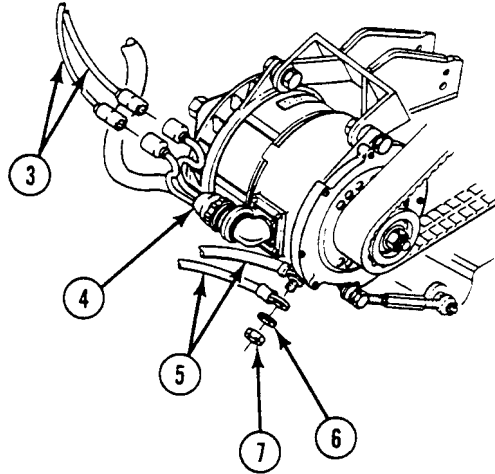
11. Connect lead (1) to airbox pressure transducer (2).



REPLACE STE/ICE ENGINE WIRING HARNESS — Continued

0882 00

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

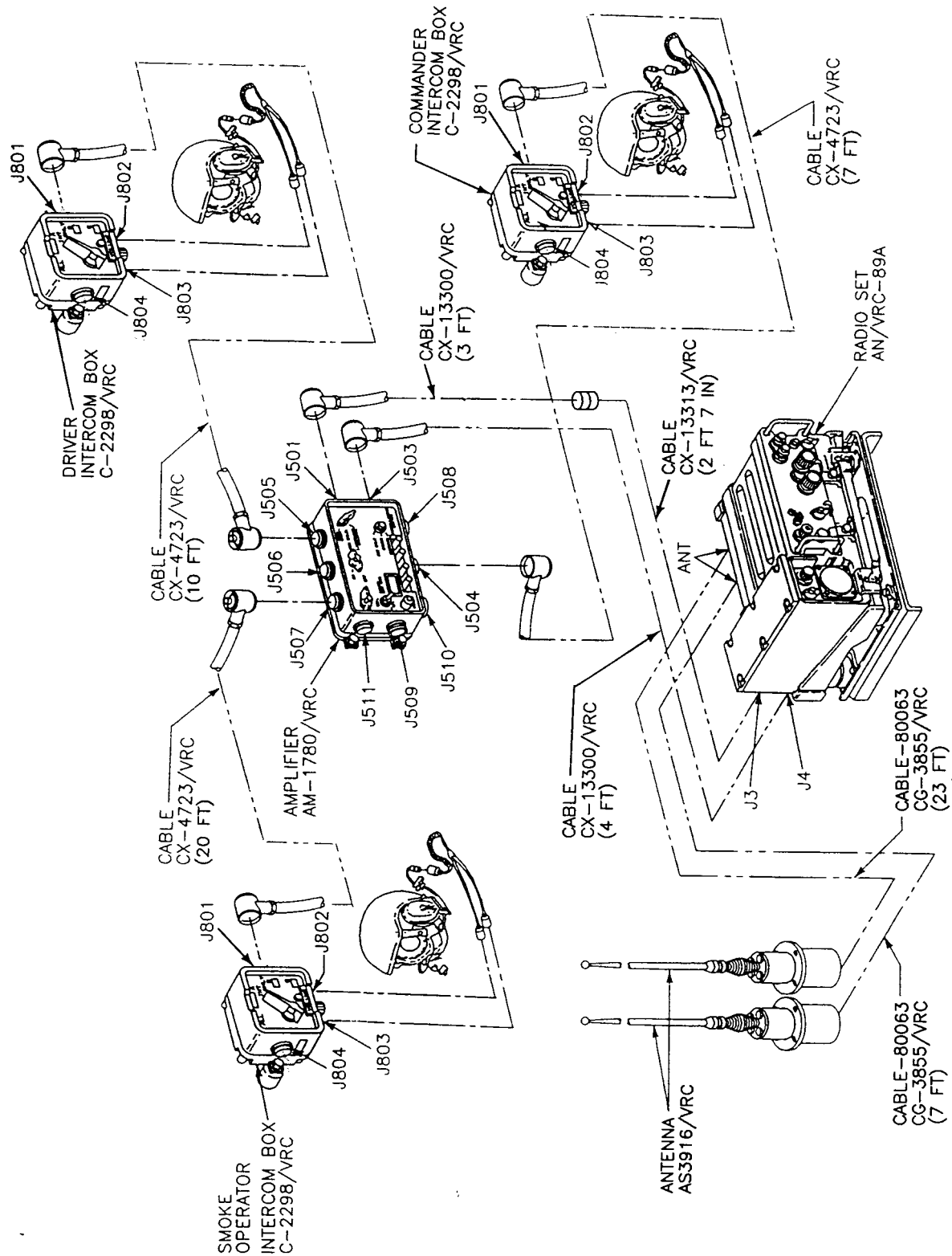
Equipment Condition

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

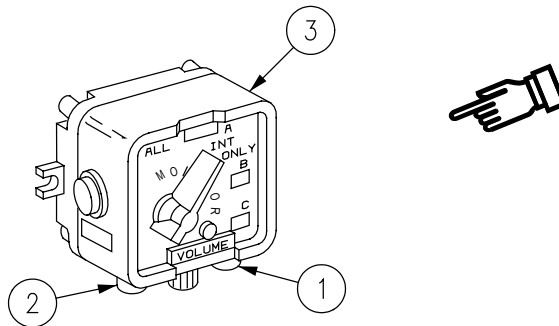
Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Battery ground strap disconnected (WP 0337 00)

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).

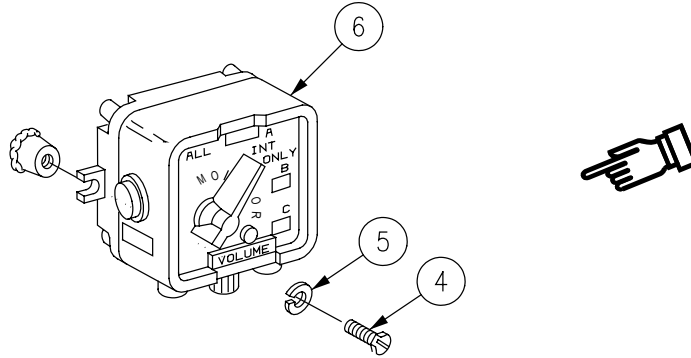


2. Deleted.

**REPLACE INTERCOMMUNICATIONS SET CONTROL (M58 ONLY) —
Continued**

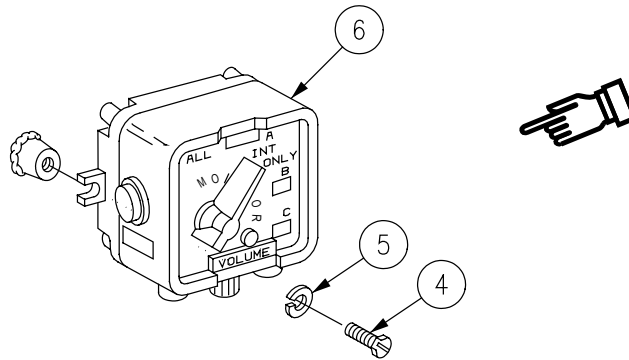
0885 00

- Remove two screws (4), lockwashers (5), and intercom station (6) from two welded blocks. Discard lockwashers.



INSTALLATION

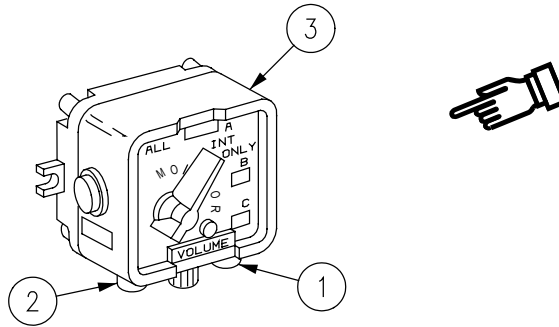
- Install intercom station (6) on two welded blocks with two new lockwashers (5) and two screws (4).



REPLACE INTERCOMMUNICATIONS SET CONTROL (M58 ONLY) —
Continued

0885 00

- Deleted.
- Connect intercom cable to connector (2) and headset to connector (1) on intercom station (3).

**FOLLOW-THROUGH STEPS**

- 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

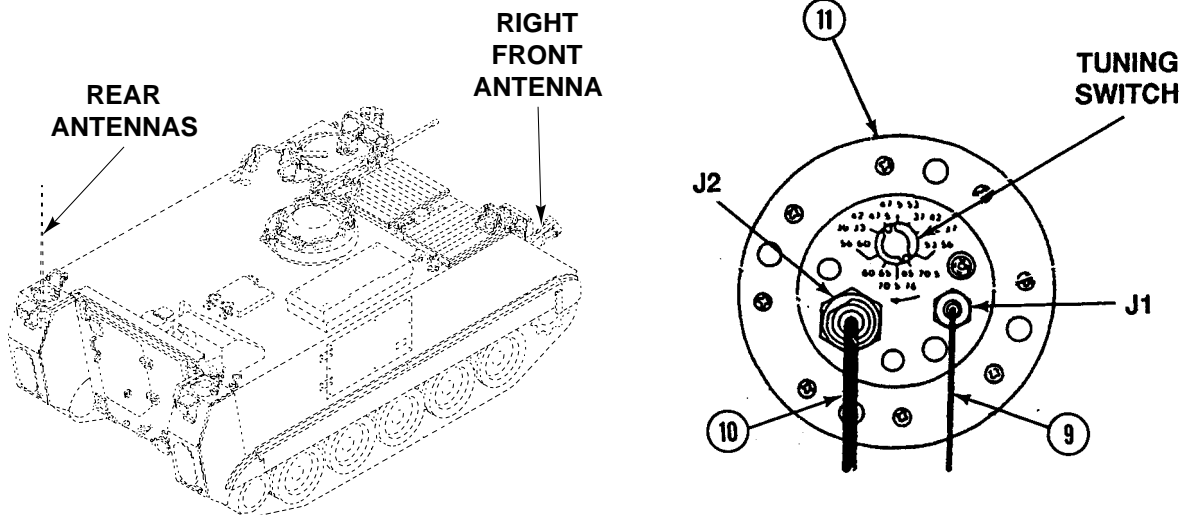
Gasket
 Lockwasher (3)
 Lockwasher (4)

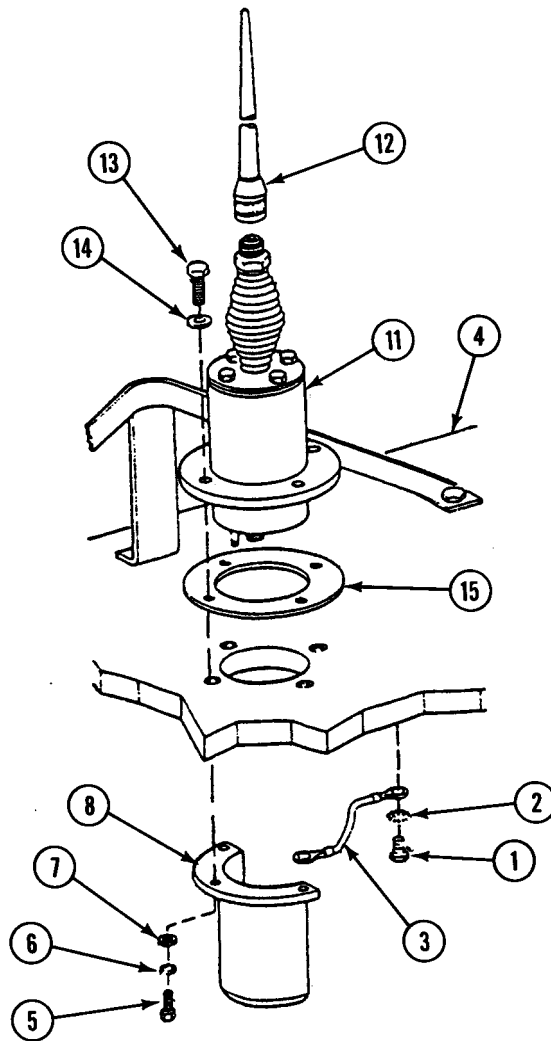
Equipment Condition

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).





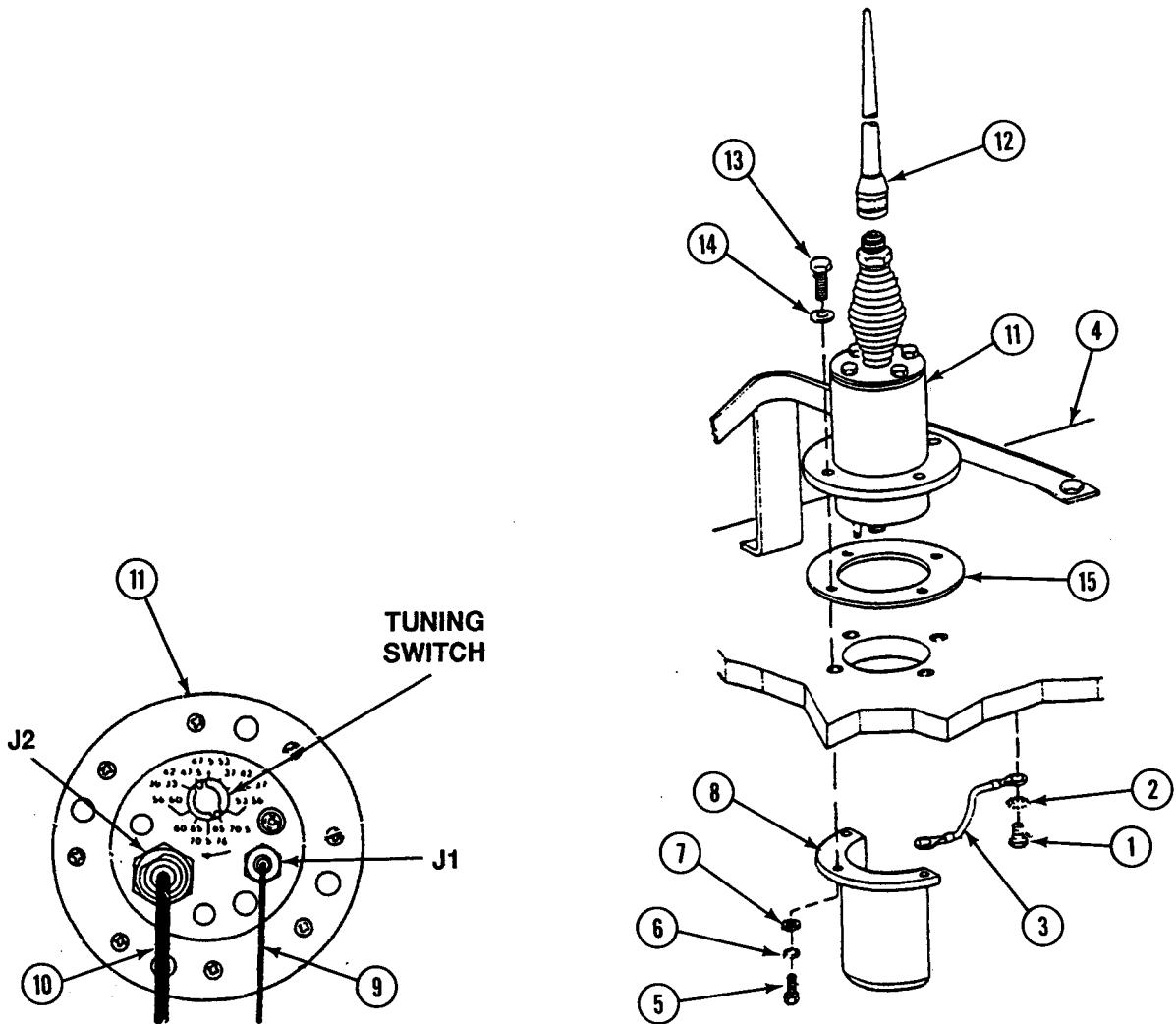
INSTALLATION

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

Tools and Special Tools

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

Materials/Parts

Lockwasher (4)

Personnel Required

Signal Support System Specialist 31U10

References

See your -10
 TM 11-5820-498-12

Equipment Condition

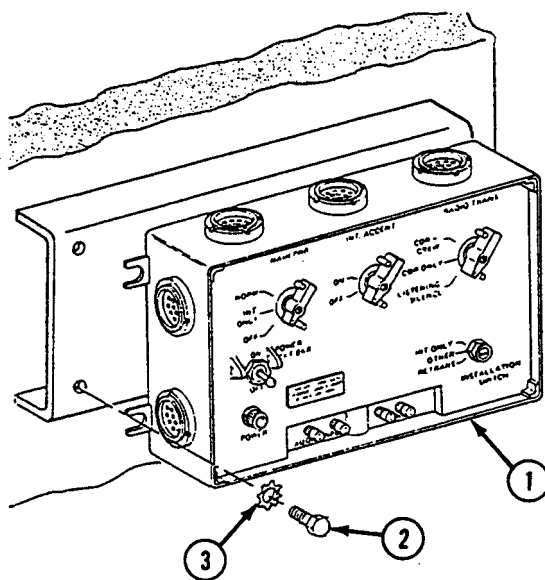
- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- Battery ground strap disconnected (WP 0337 00)

REMOVAL

NOTE

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.

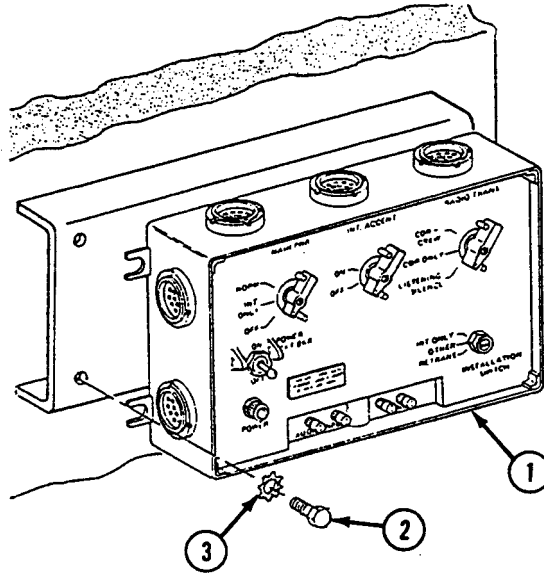


INSTALLATION

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

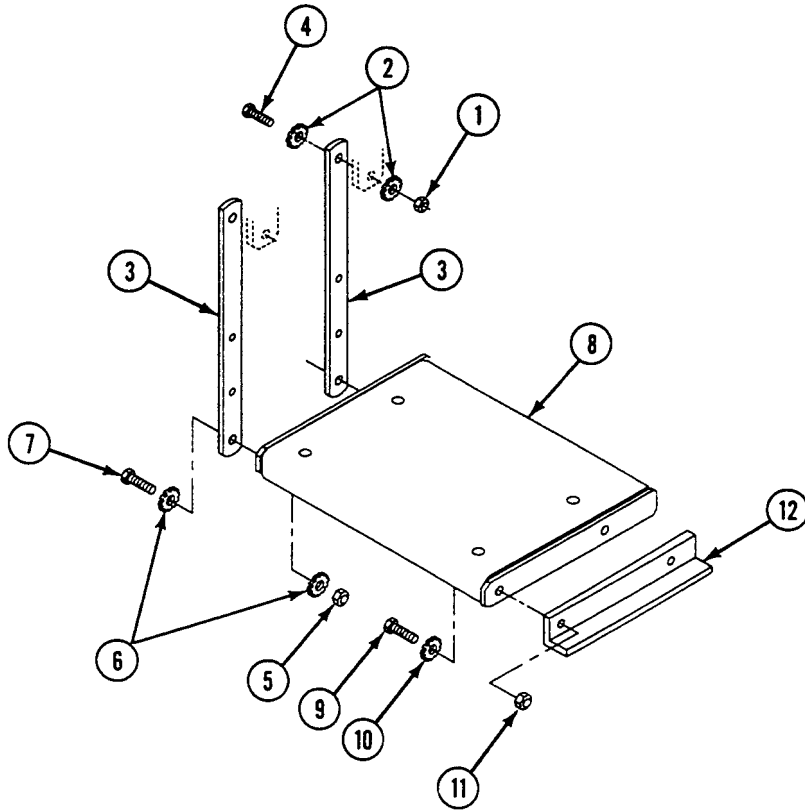
REMOVAL

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

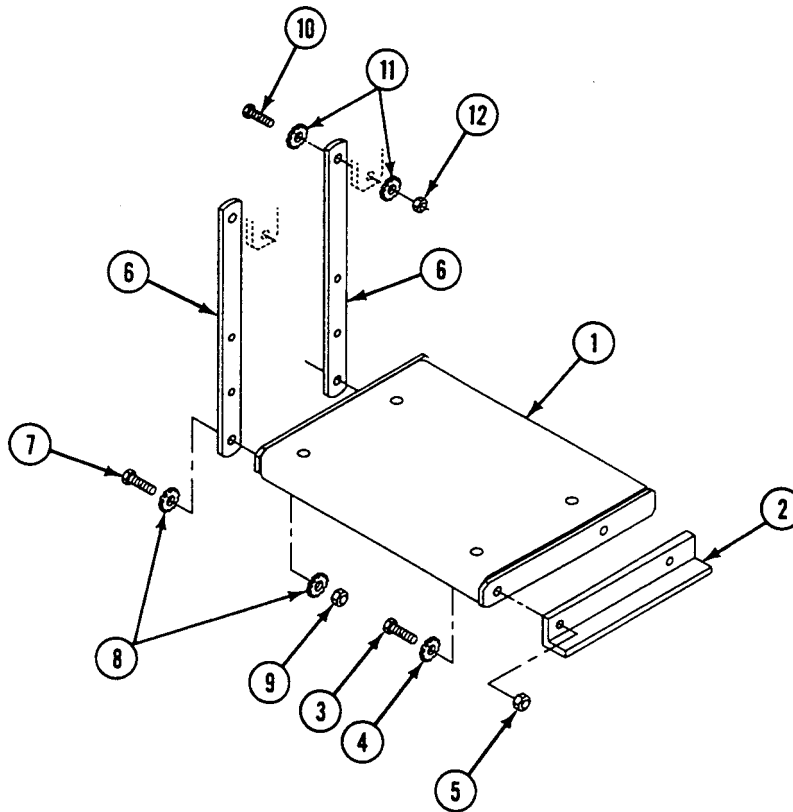
0891 00

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

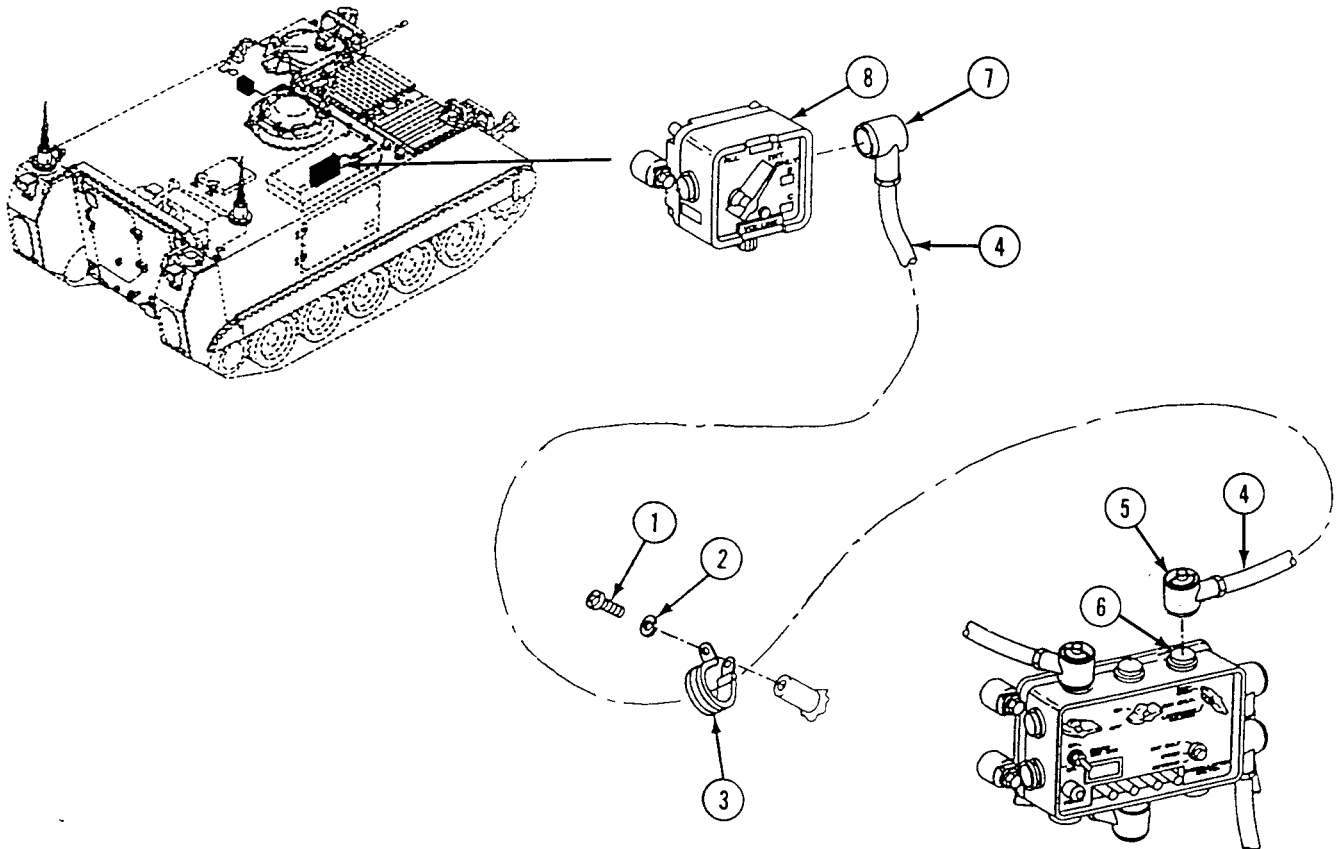
Lock washer (6)

Personnel Required

Signal Support System Specialist 31U10

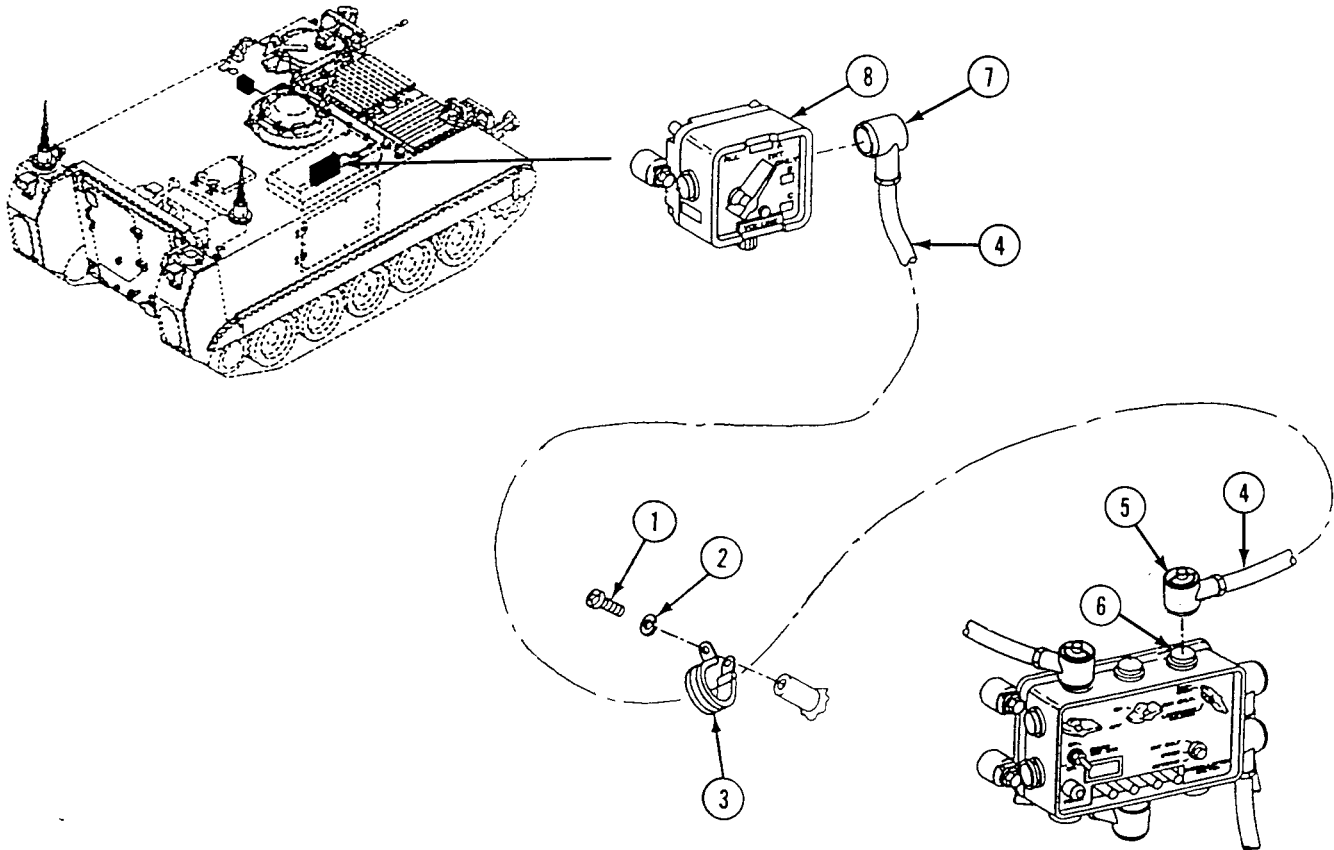
REMOVAL

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

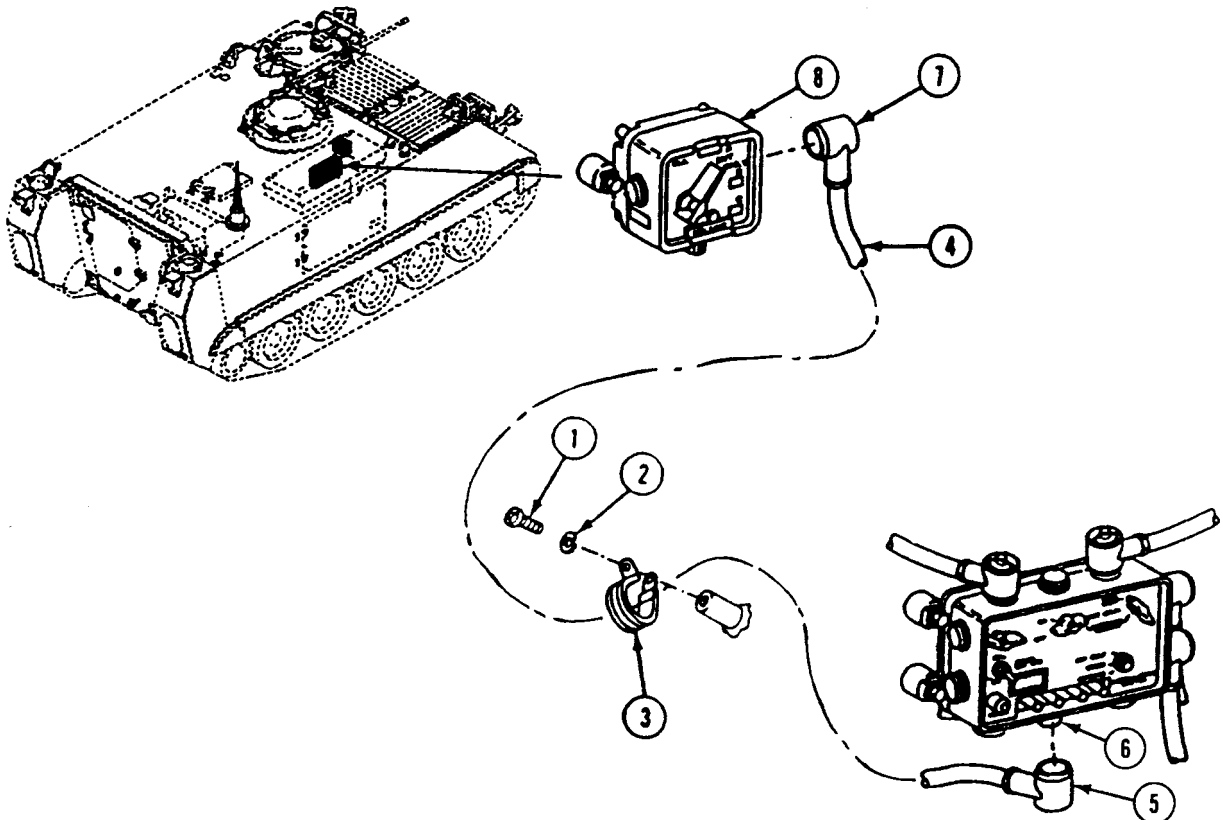
Lockwasher

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).

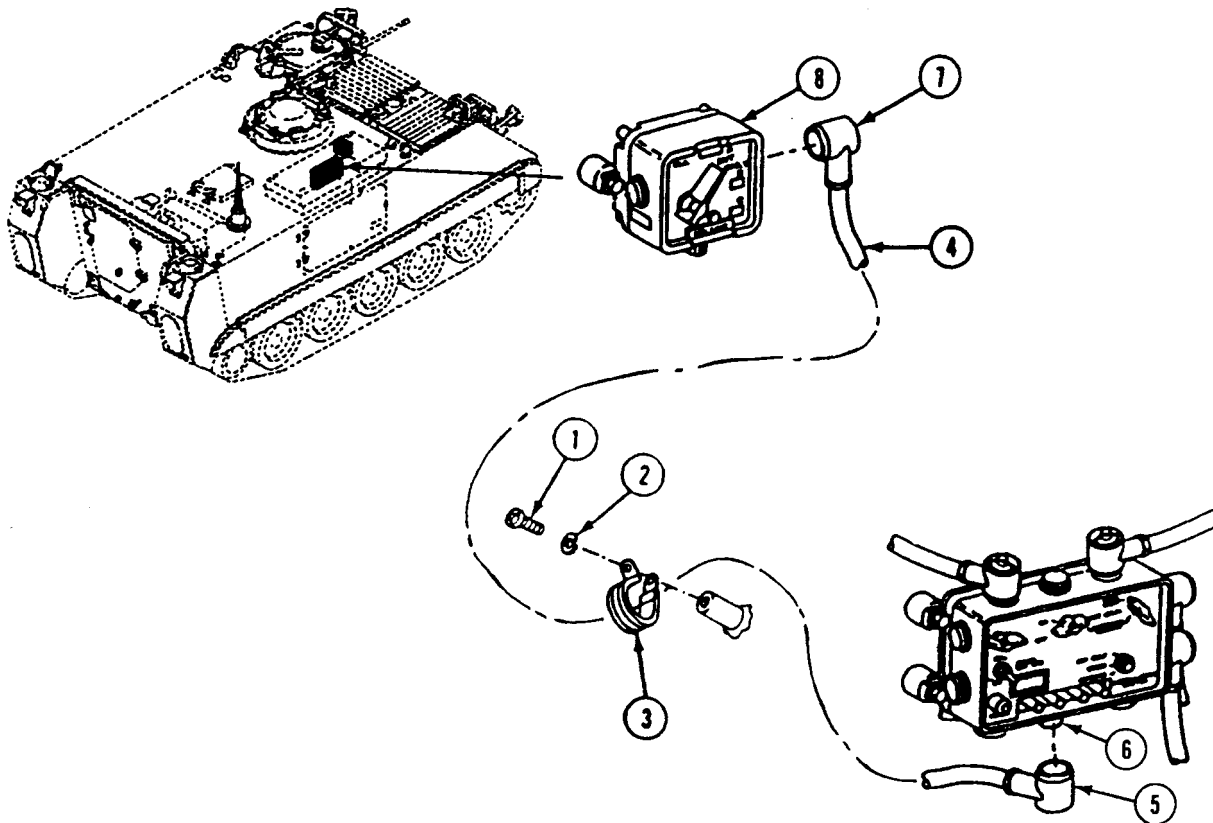


REPLACE COMMANDER'S INTERCOMMUNICATION SET CABLE (M58 ONLY) —
Continued

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

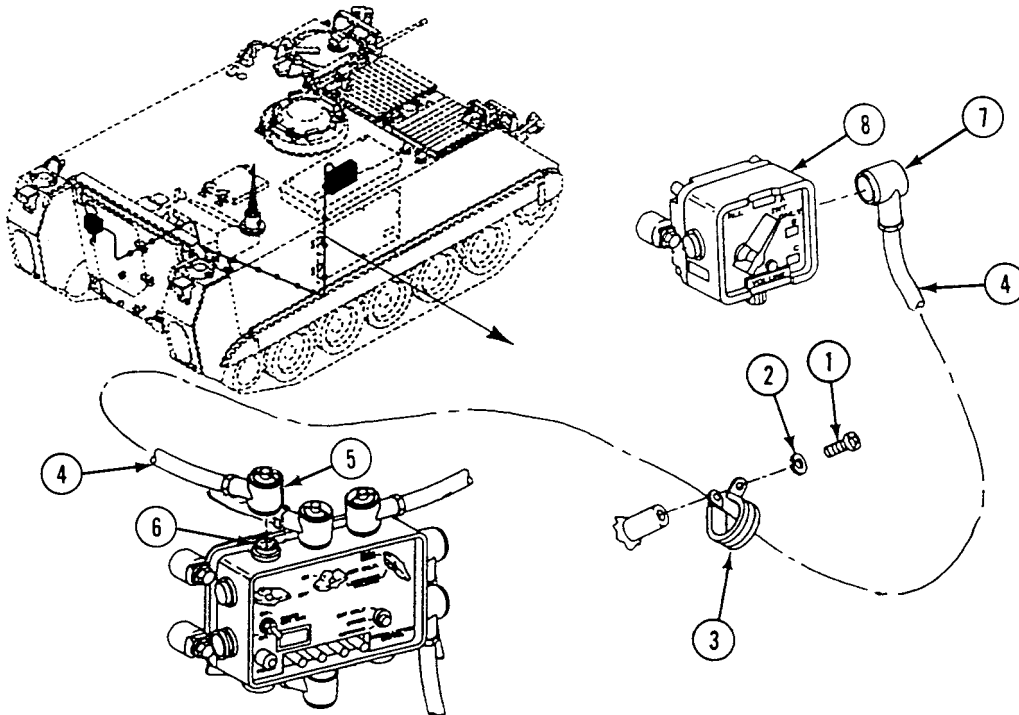
Lockwasher (9)

Personnel Required

Signal Support System Specialist 31U10

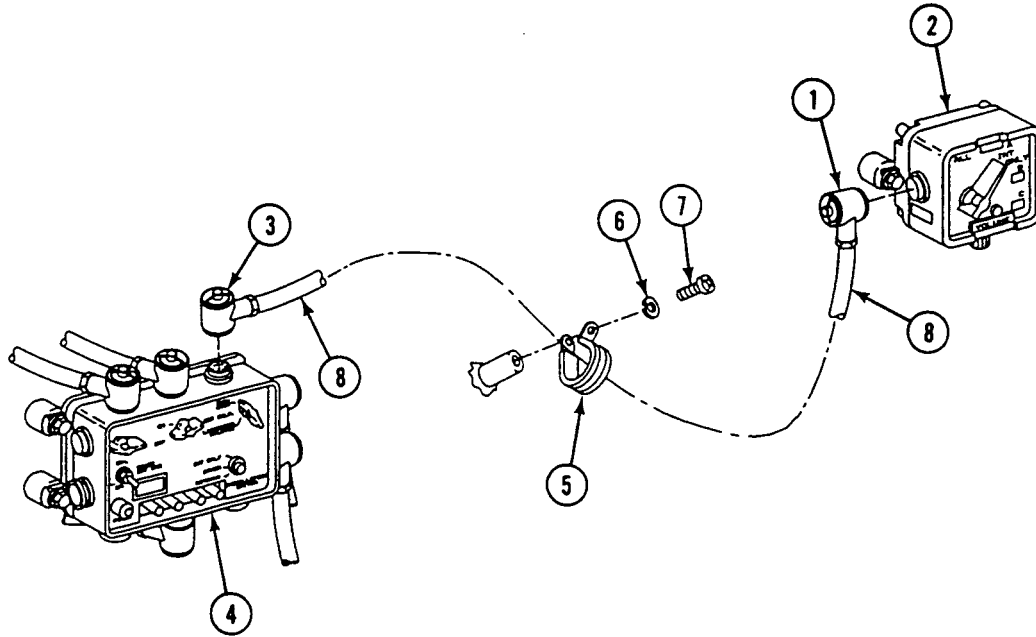
REMOVAL

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

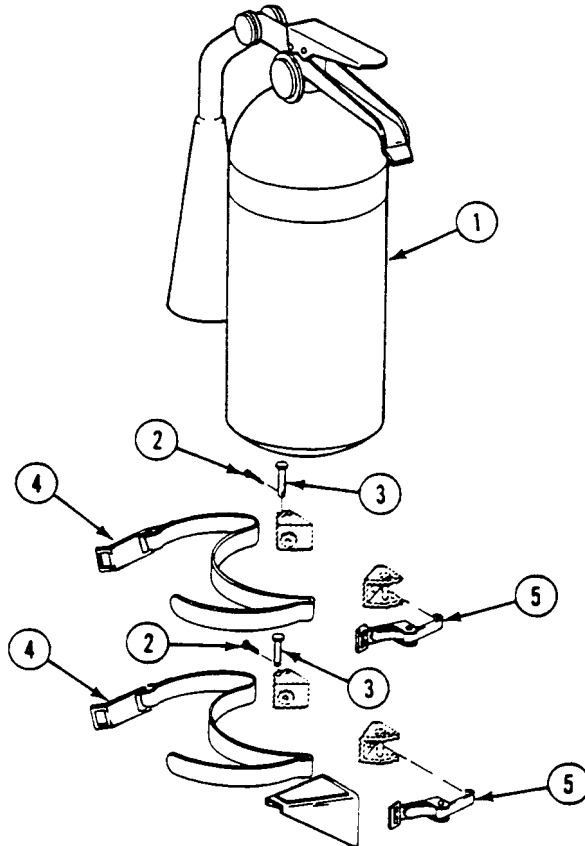


You could be injured if cylinder discharges when it is out of its mounting brackets or is dropped. Discharge cylinder completely before removing from its mount. Handle with great care.

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).

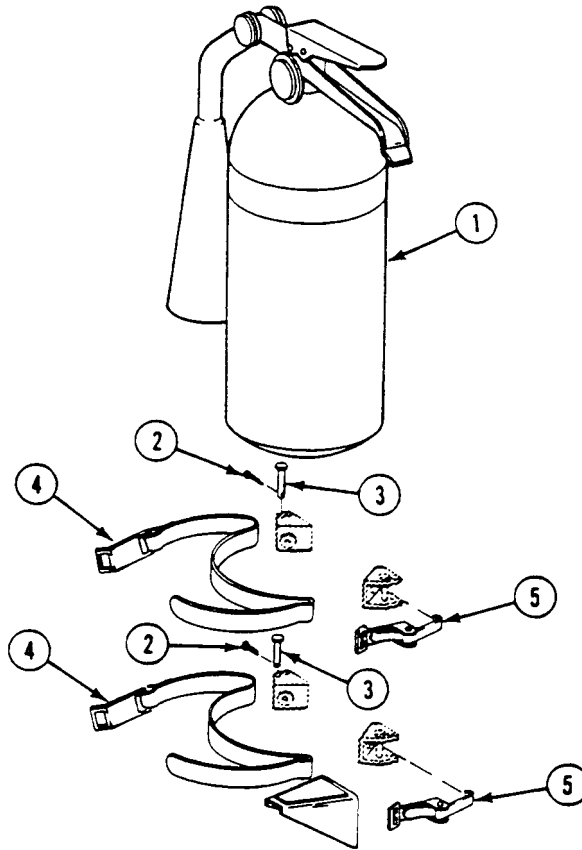


REPLACE PORTABLE FIRE EXTINGUISHER MOUNT (ALL EXCEPT M1068A3) —
Continued

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

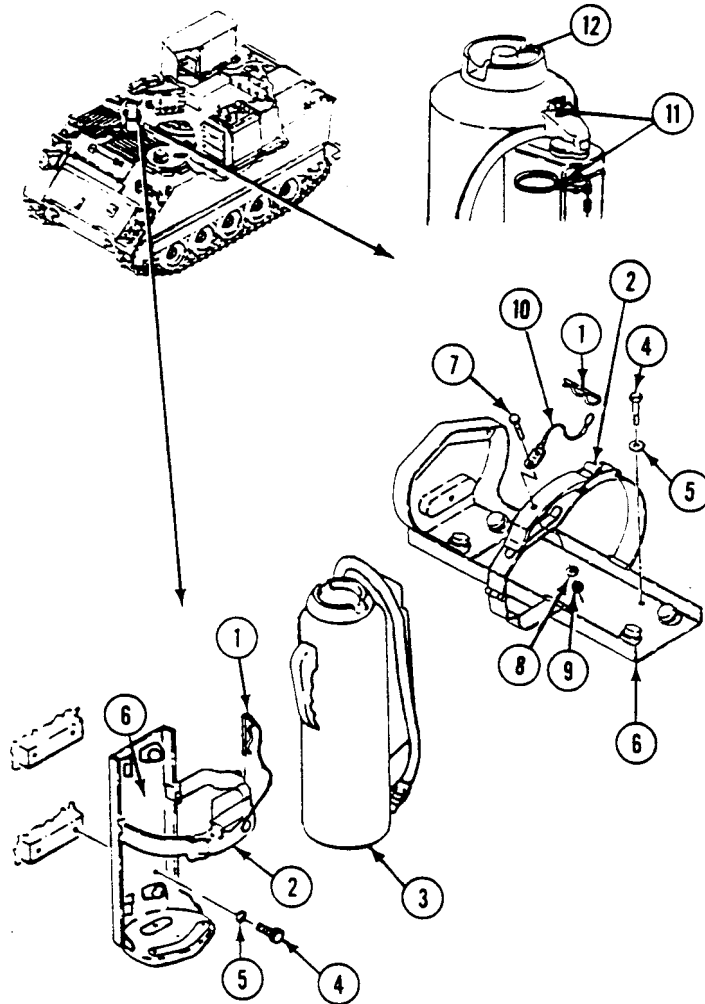


You could be injured if cylinder discharges when it is out of its mounting brackets or is dropped. Discharge cylinder completely before removing from its mount. Handle with great care.

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.

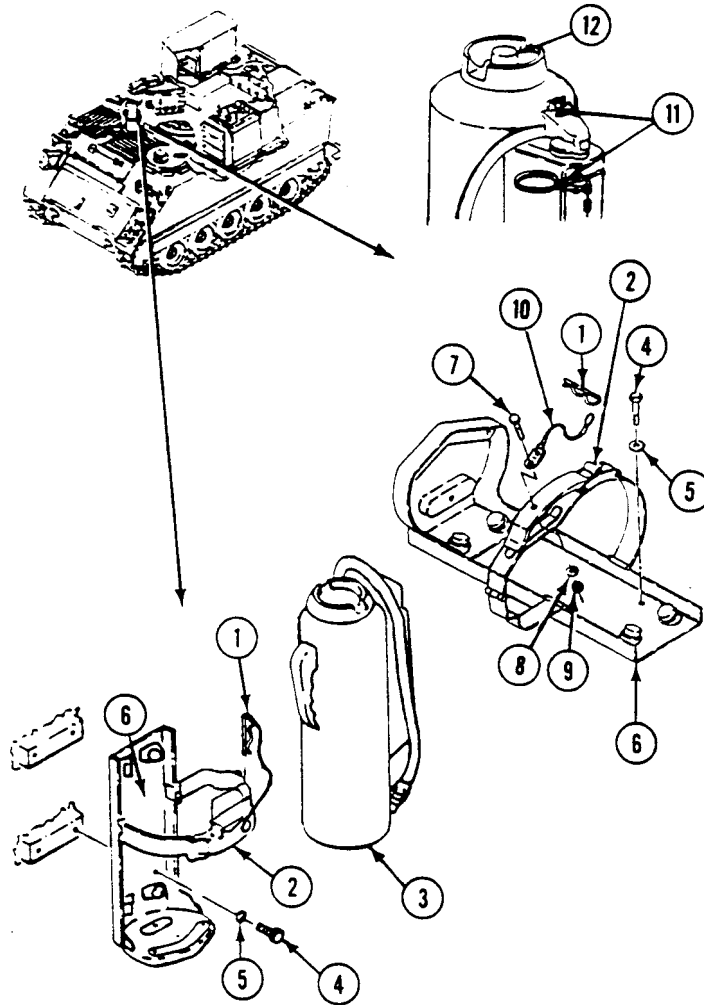


INSPECTION-ACCEPTANCE AND REJECTION CRITERIA

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

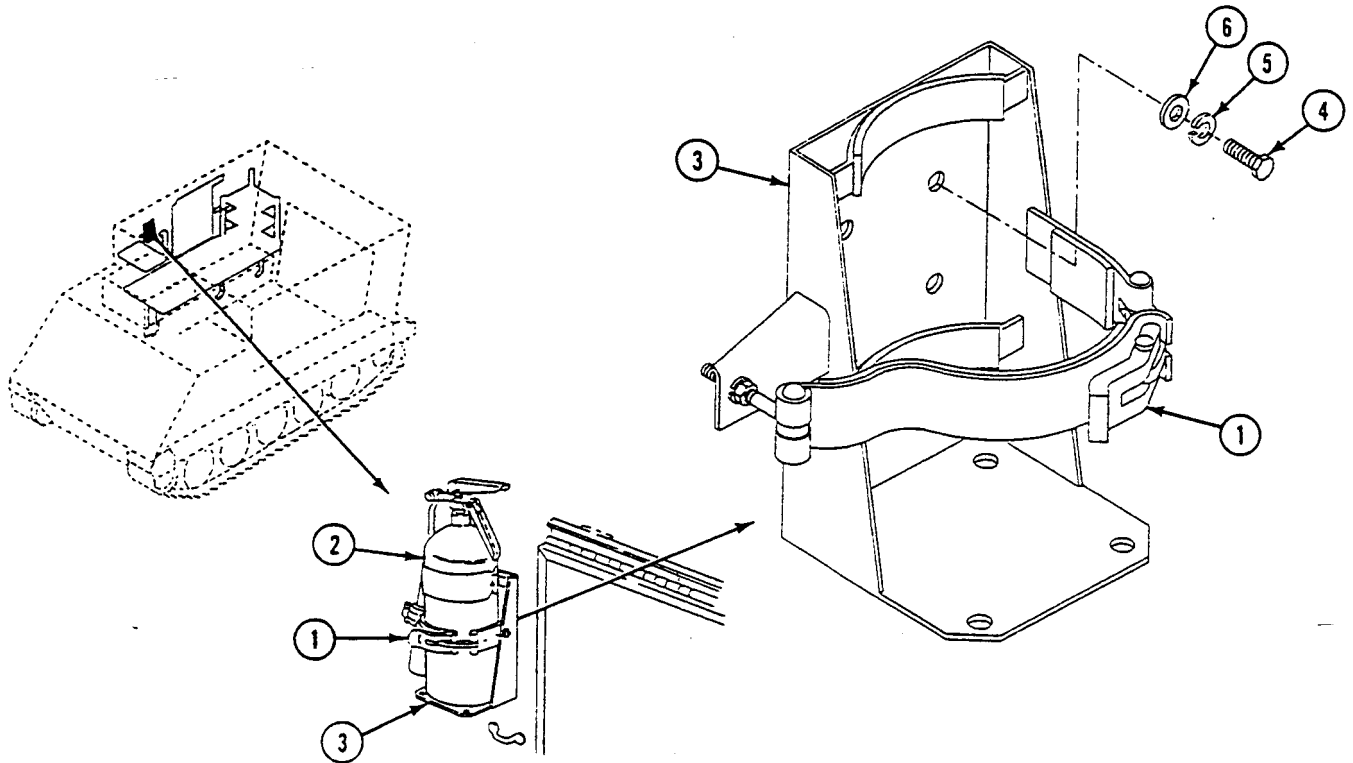


You could be injured if fire extinguisher accidentally discharges when it is out of its mounting bracket or is dropped. Make sure safety pin is properly installed in fire extinguisher before removing extinguisher from mounting bracket. Handle with care.

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.

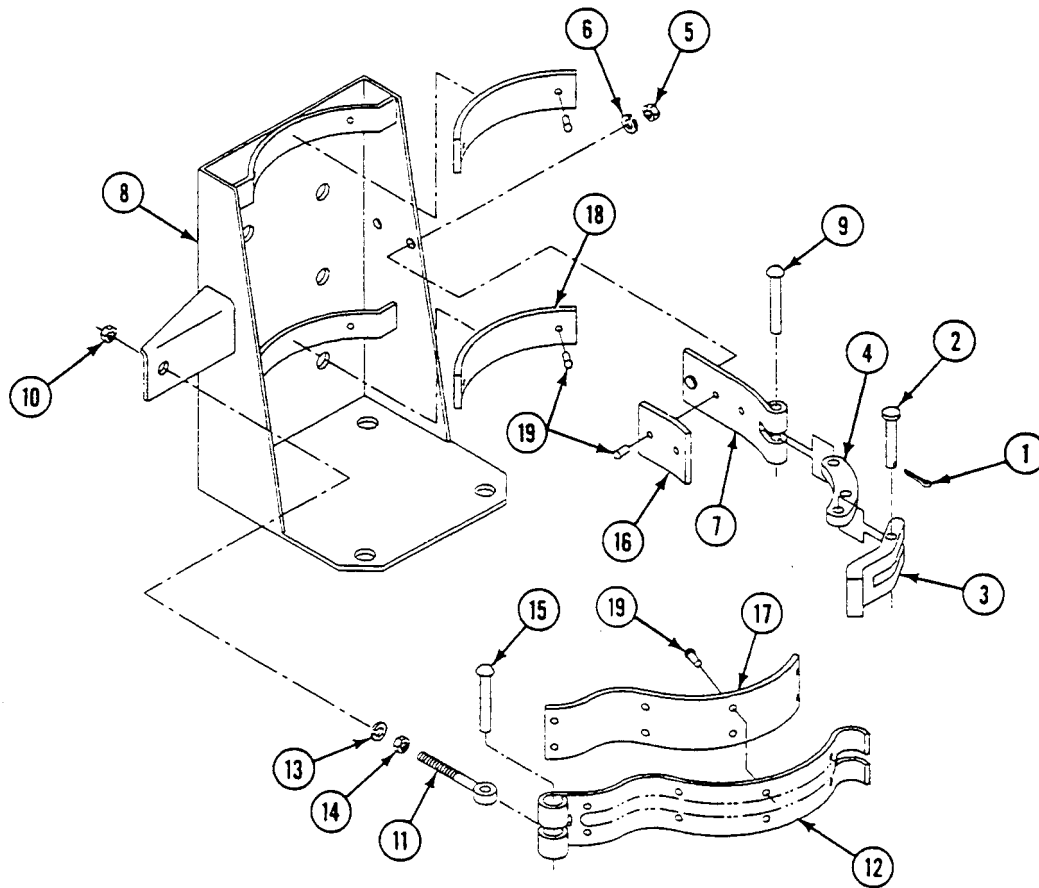


REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER MOUNT (M1068A3 ONLY) —
Continued

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.

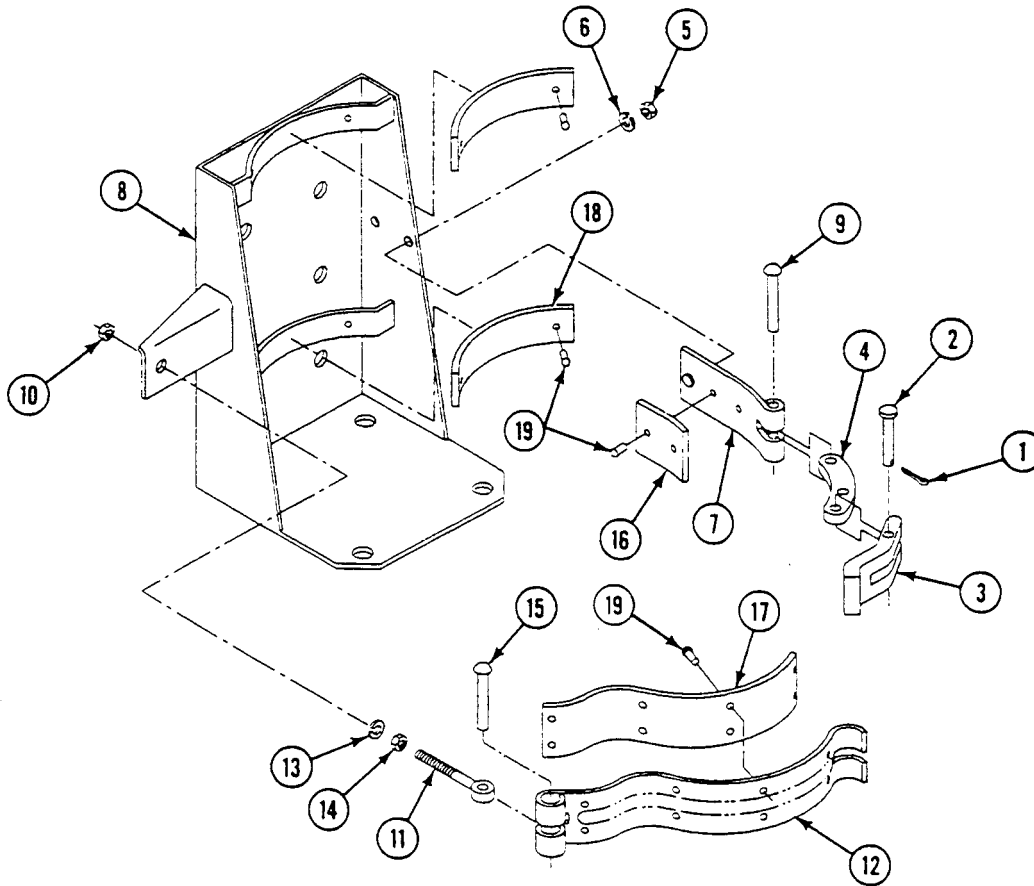


**REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER MOUNT (M1068A3 ONLY) —
Continued**

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).

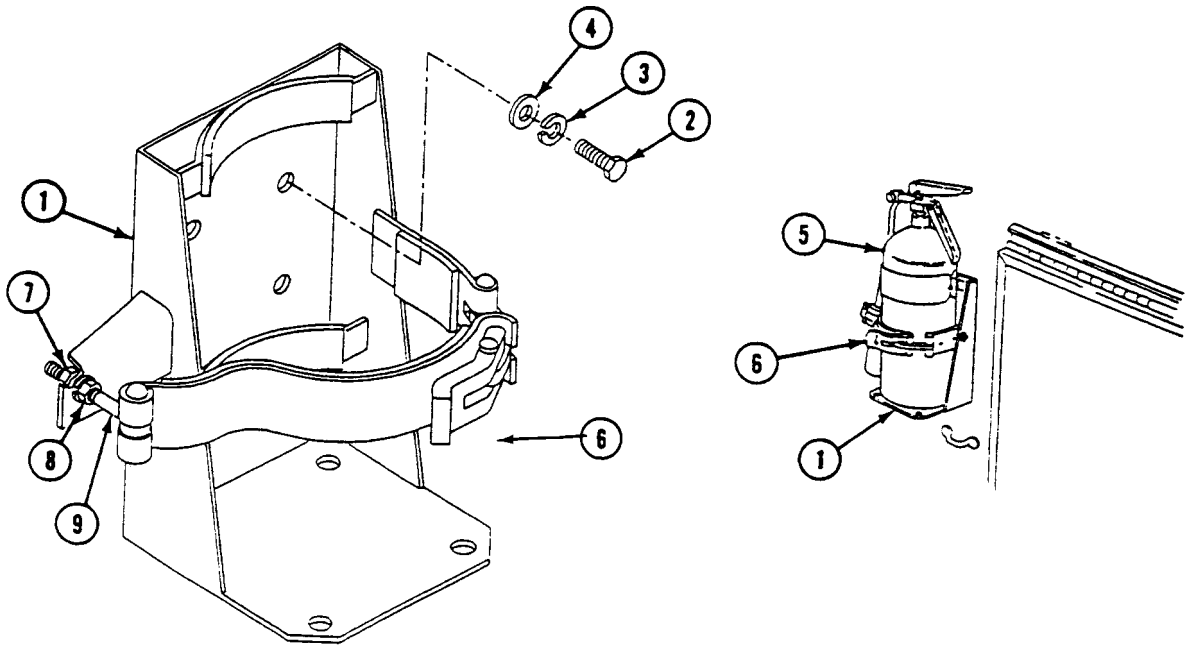


REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER MOUNT (M1068A3 ONLY) —
Continued

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.

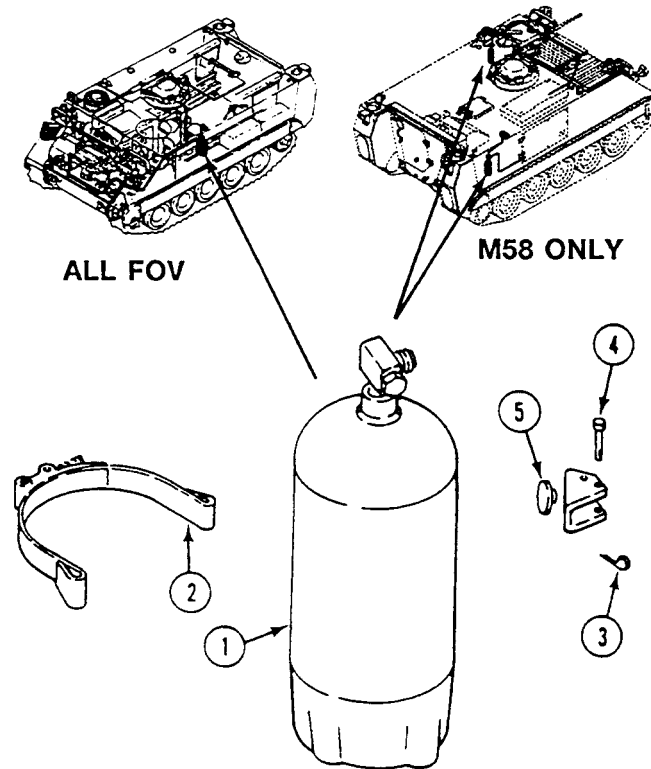
CAUTION

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

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)
 Trim vane lowered (see your -10)
 Power plant access door open (see your -10)
 Power plant removed (WP 0156 00),
 if bottom discharge tube is to be removed
 Left front spall liner opened (M113A3) (see your -10)

Materials/Parts

Lockwasher (6)

Personnel Required

Unit Mechanic

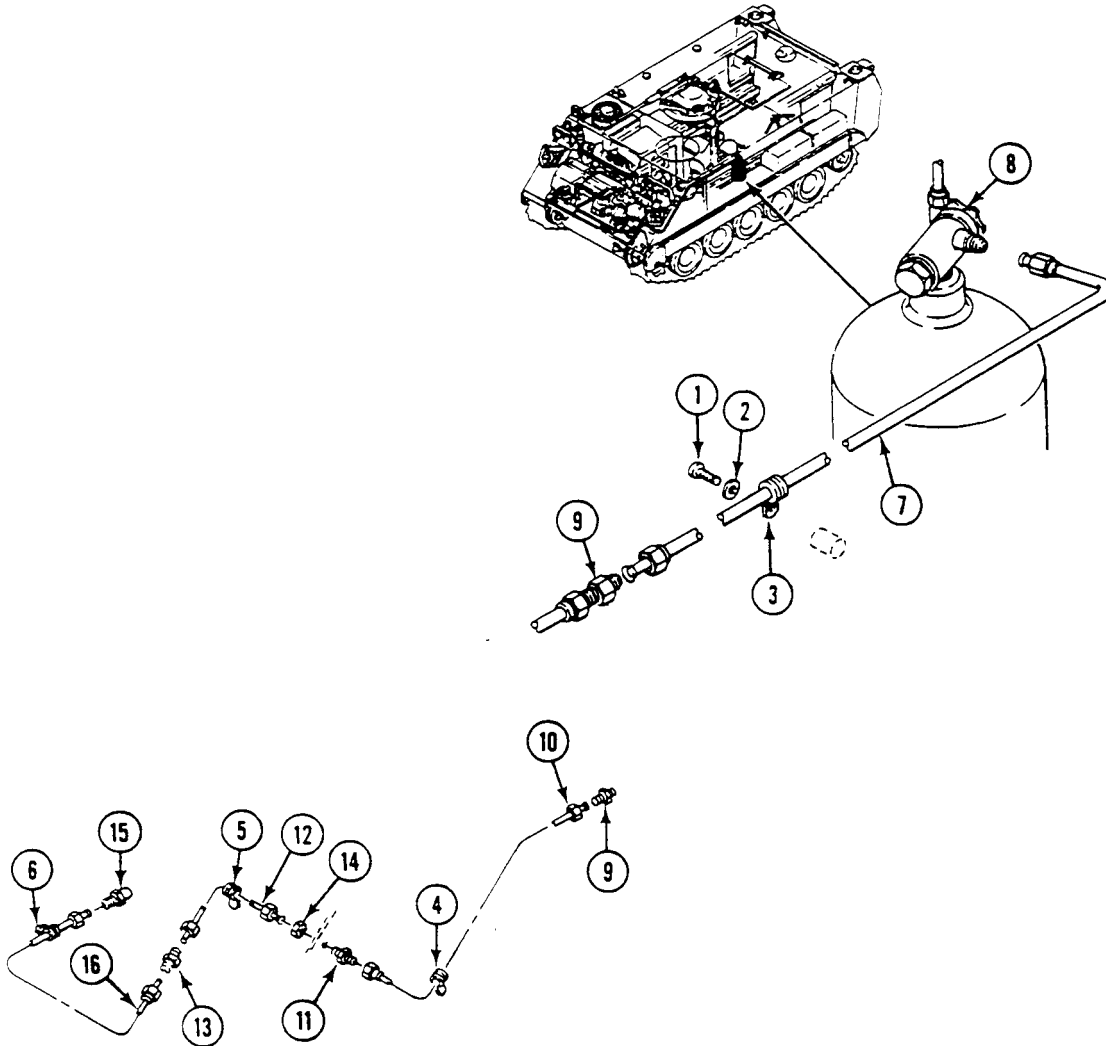
REMOVAL

1. Remove six screws (1), lockwashers (2), and clamps (3)(4)(5)(6) from six hull weldnuts. Discard lockwashers.

REPLACE CYLINDER DISCHARGE TUBES — Continued

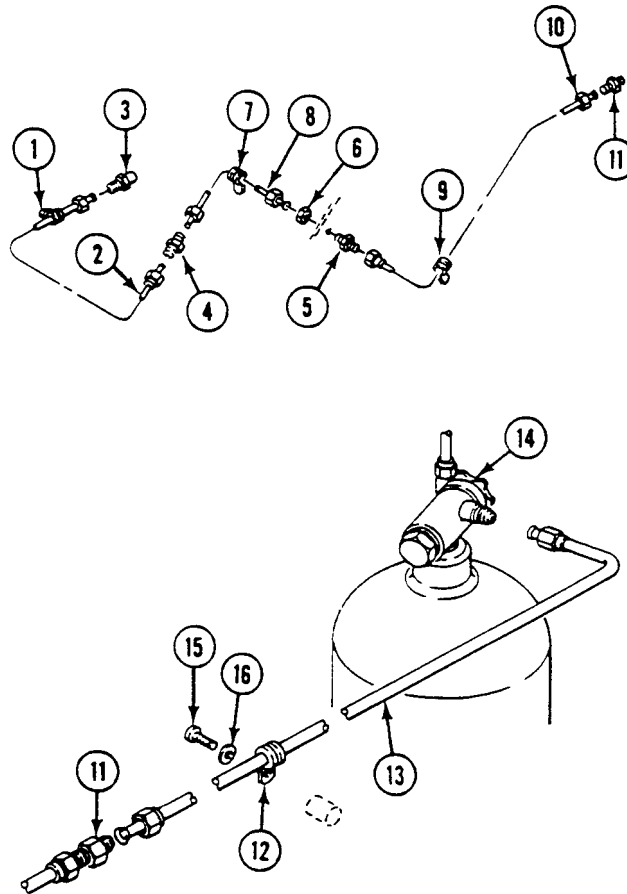
0899 00

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)(12) with six hull weldnuts. Secure clamps to weldnuts 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 your -10).
3. Raise trim vane (see your -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

Engine stopped (see your -10)

Materials/Parts

Lockwasher (2)

Carrier blocked (see your -10)

Personnel Required

Unit Mechanic

Ramp door open (see your -10)

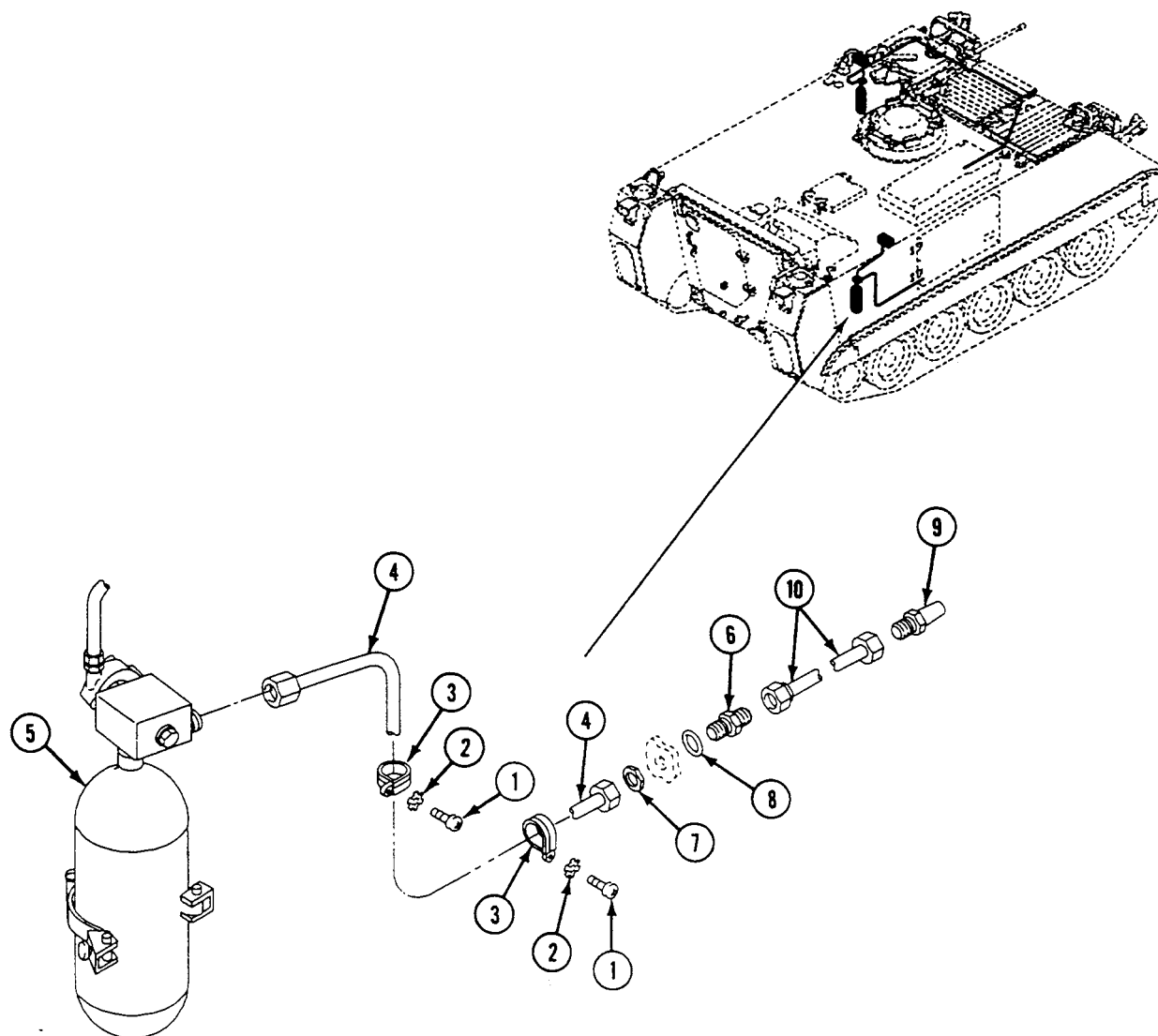
REMOVAL

1. Remove two screws (1), lockwashers (2), and clamps (3) from two hull weldnuts. Discard lockwashers.

REPLACE TURBINE CYLINDER DISCHARGE TUBES (M58 ONLY) — Continued

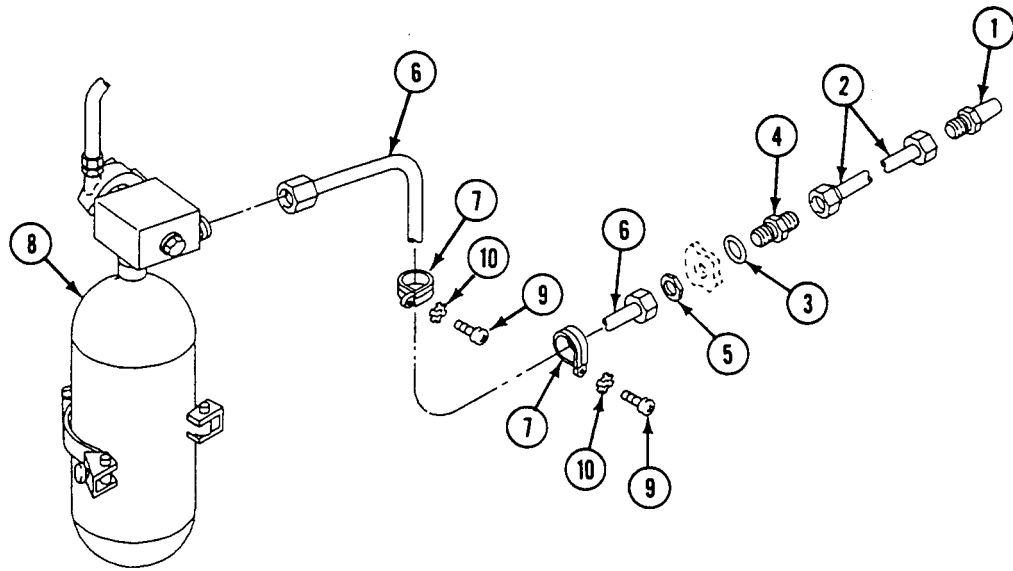
0900 00

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

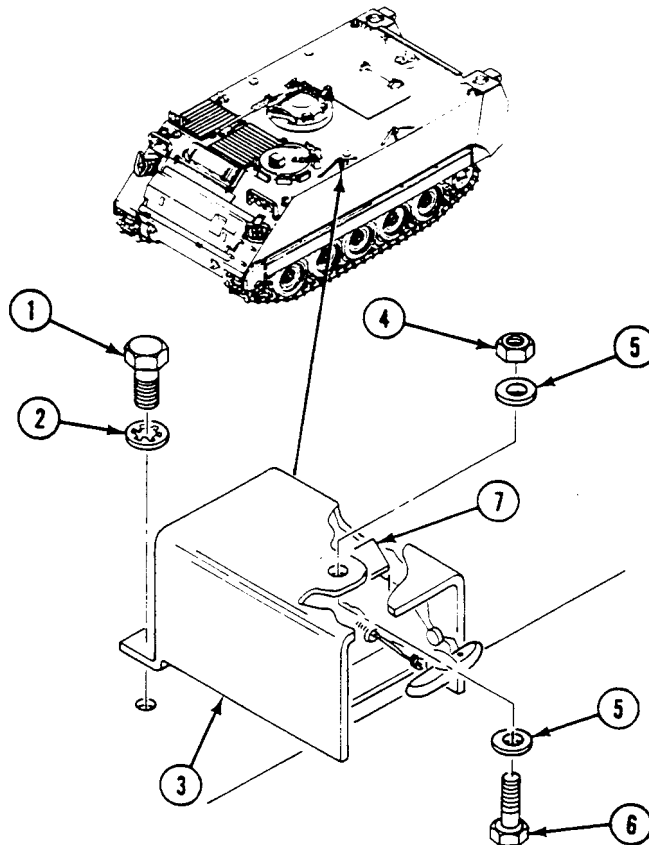
Locknut
 Lockwasher (2)
 Shield

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.

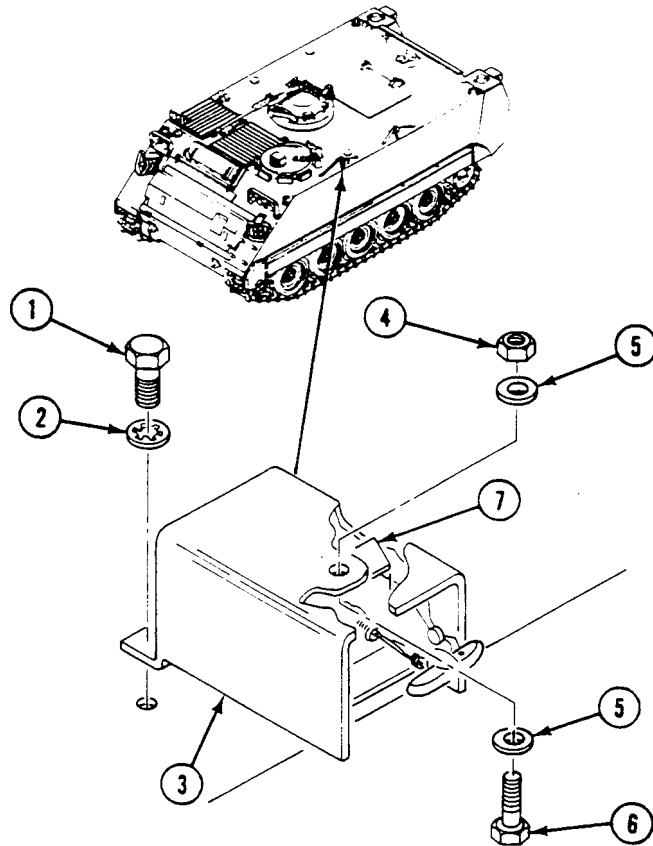


REPLACE EXTERNAL HANDLE SHIELD (M113A3 AND M1059A3 ONLY) — Continued

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)

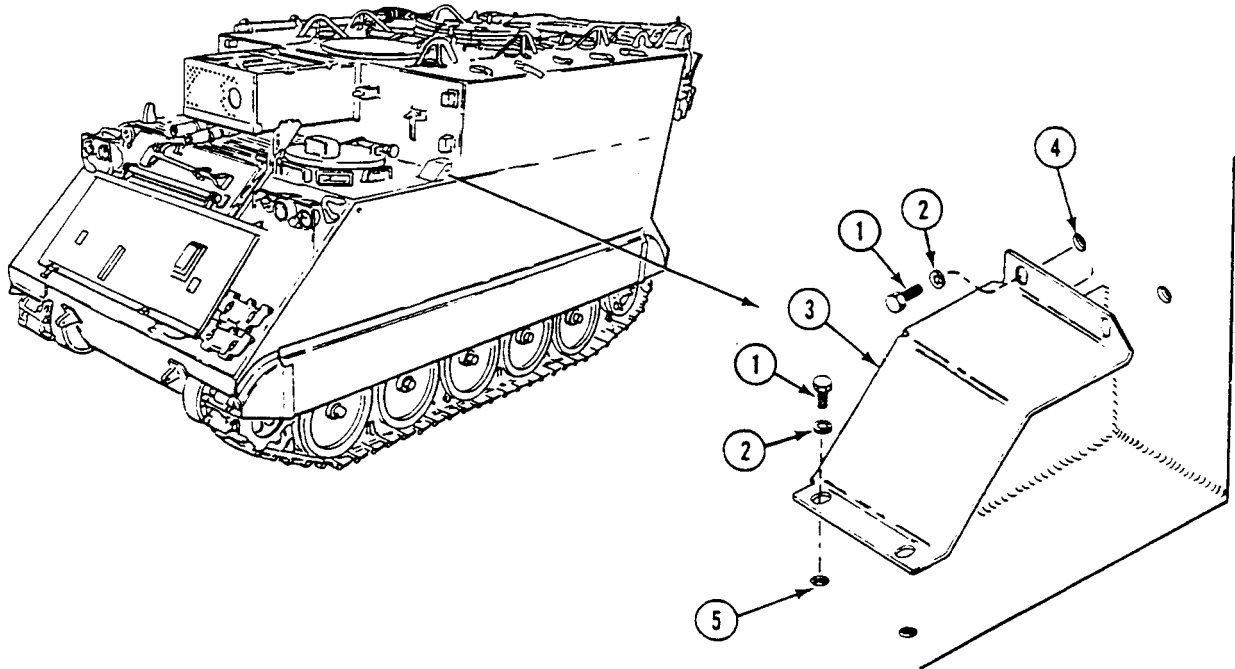
Carrier blocked (see your -10)

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)

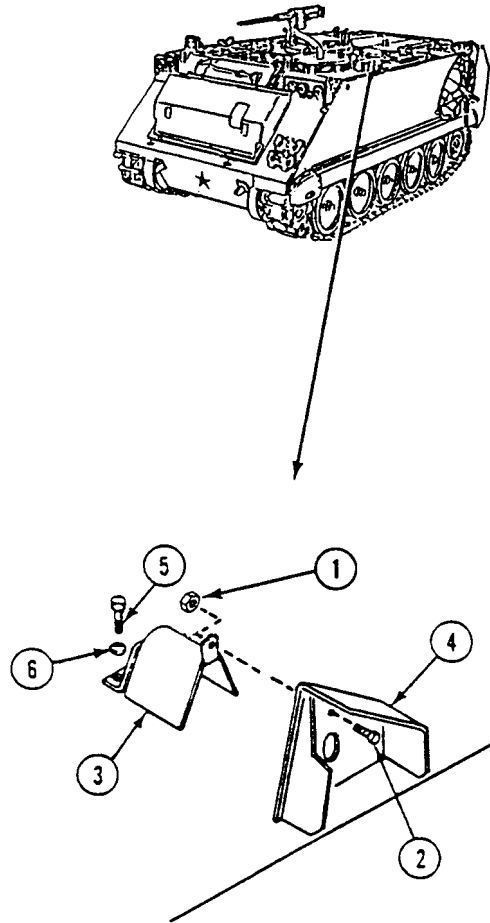
Equipment Condition

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.

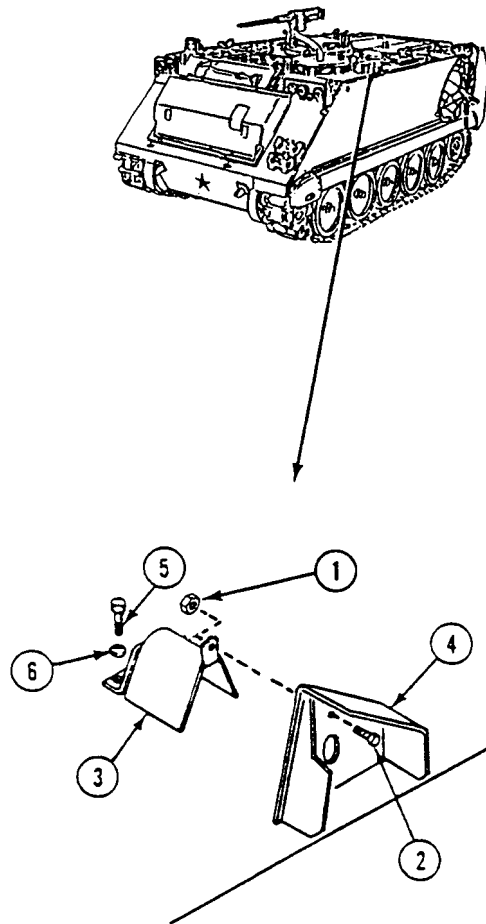


INSPECTION-ACCEPTANCE AND REJECTION CRITERIA

1. Check shield. Replace cracked shield.
2. Check threaded parts. Remove burrs. 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.

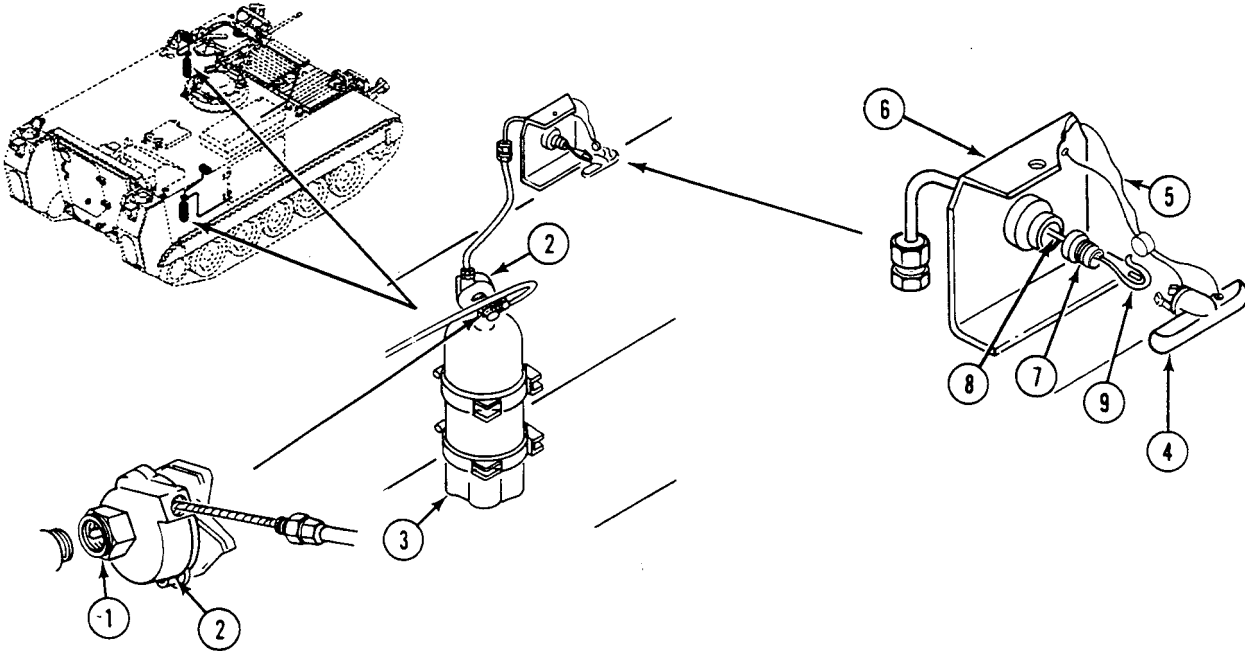
M58 vehicle has two fixed fire extinguishers.

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

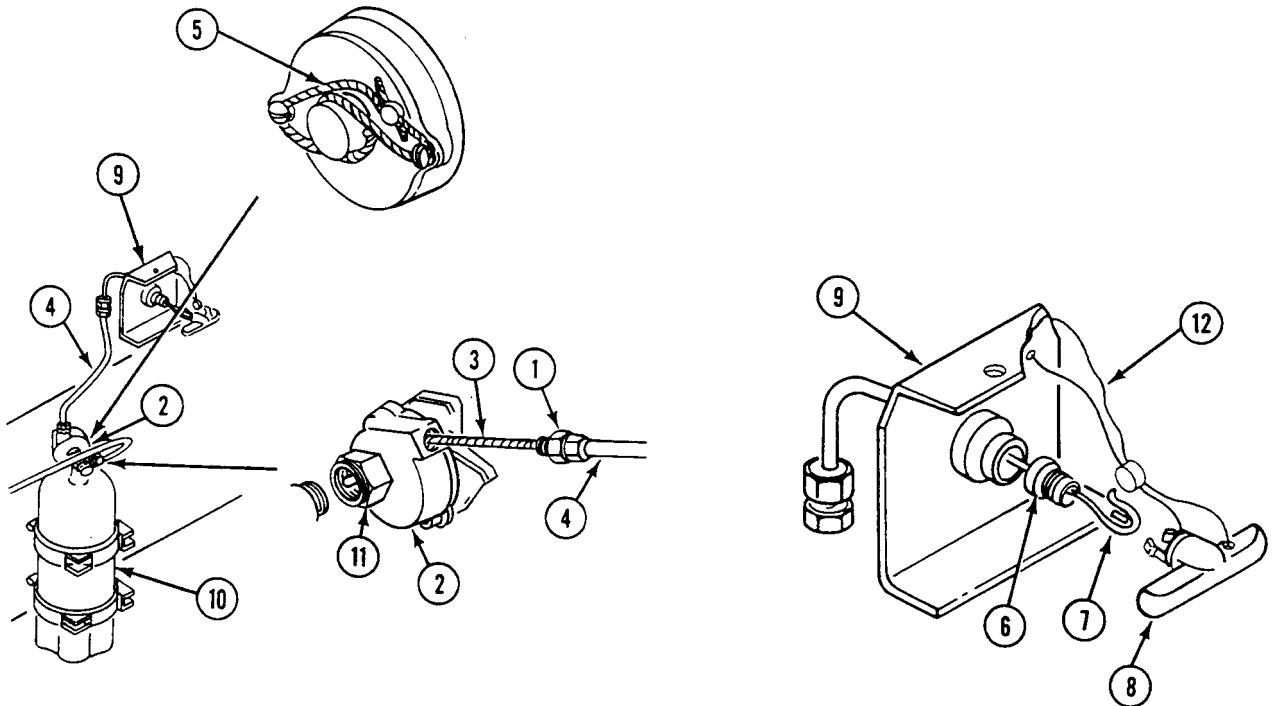
1. Slide adapter (1) over cable (3). Install adapter in control valve (2).
2. Route cable (3) through cable tube (4) and insert (6).
3. Bend cable (3) over wedge (7). Slide insert (6) over cable and wedge.
4. Install insert (6) in handle (8).
5. Pull control valve (2) until handle (8) is in place on 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

Engine stopped (see your -10)

Nut

Carrier blocked (see your -10)

Sleeve

External handle shield removed (WP 0901 00),
 (WP 0902 00), or (WP 0903 00)

Sleeve

Personnel Required

Unit Mechanic

External handle and insert removed (WP 0904 00)

REMOVAL

NOTE

M58 vehicle has two fixed fire extinguishers.

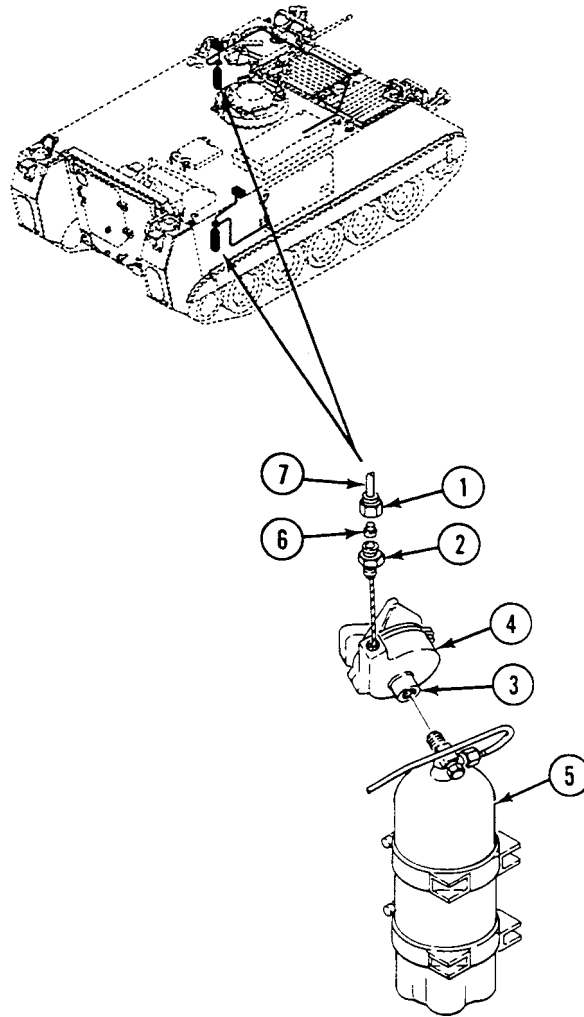
For M113A3, slide spill liner to access engine compartment fire extinguisher.

1. Loosen nut (1) on control valve adapter (2).

WARNING

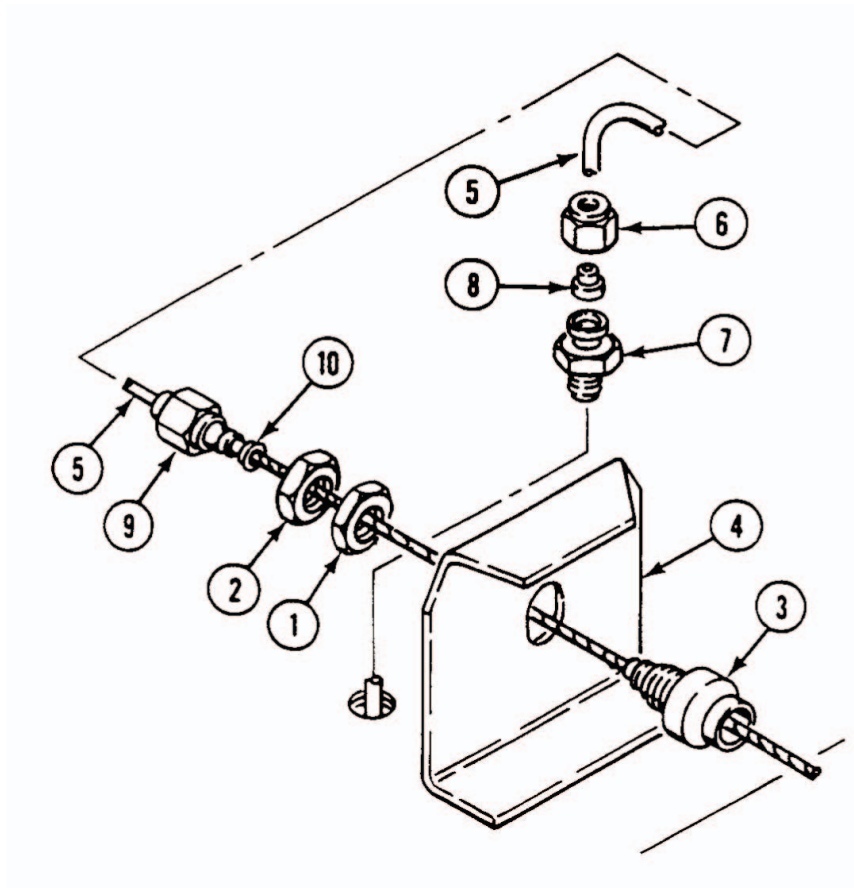
**You could be injured by discharging cylinder if dropped or mounting bracket is not in place.
Discharge cylinder completely before removing from mount.**

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.



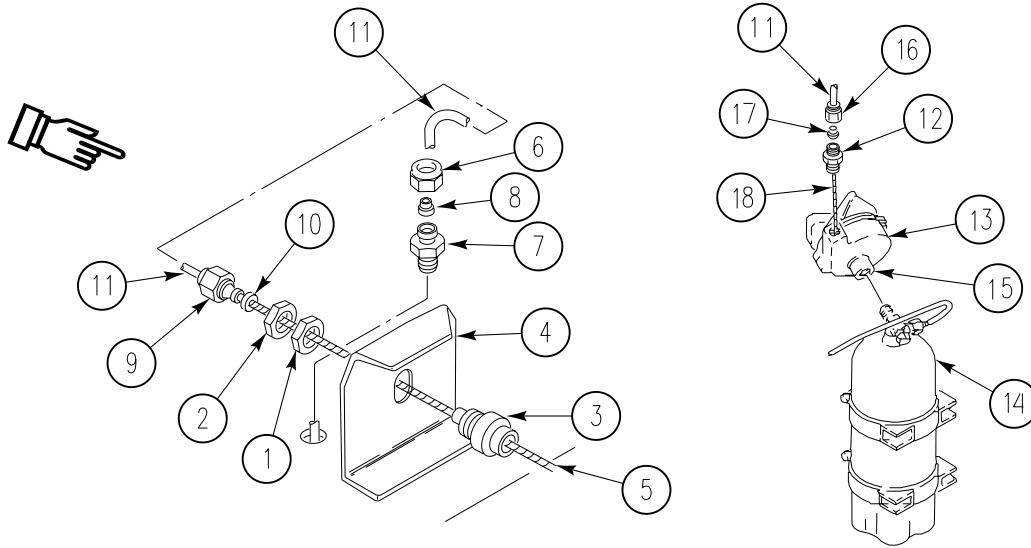
INSTALLATION

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

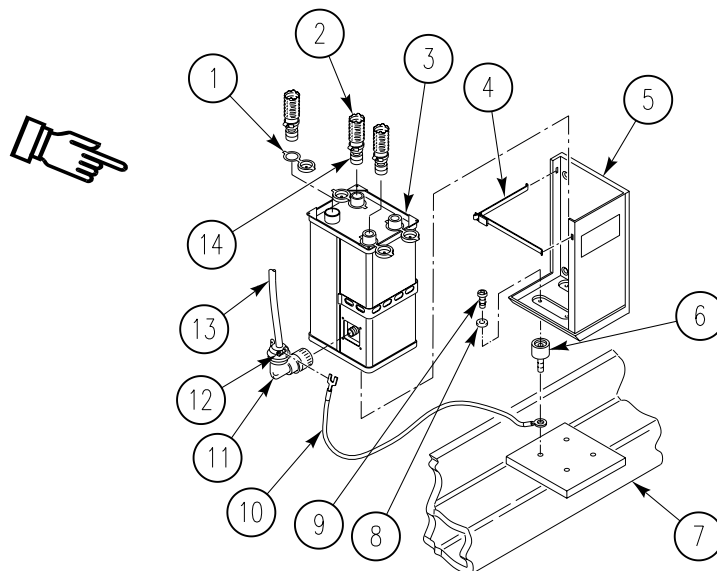
See your -10
 TM 3-6680-316-10

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).

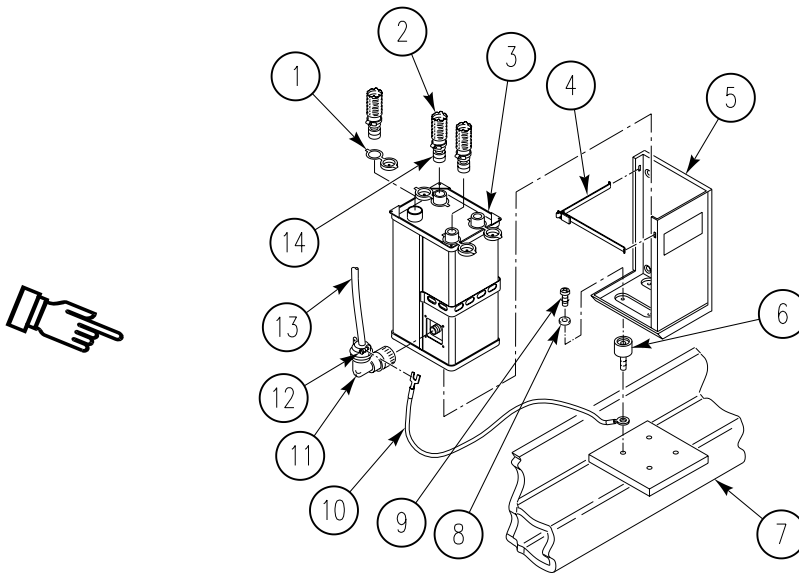


INSTALLATION

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

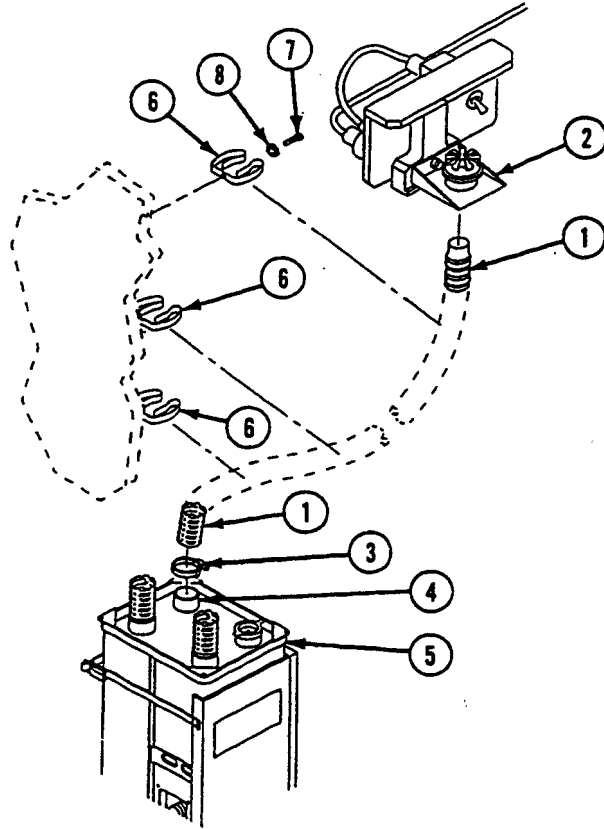
There are three NBC hose assemblies for the M58 vehicle; one for the commander, driver, and operator. All M58 NBC hose assemblies are removed/installed the same way.

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.

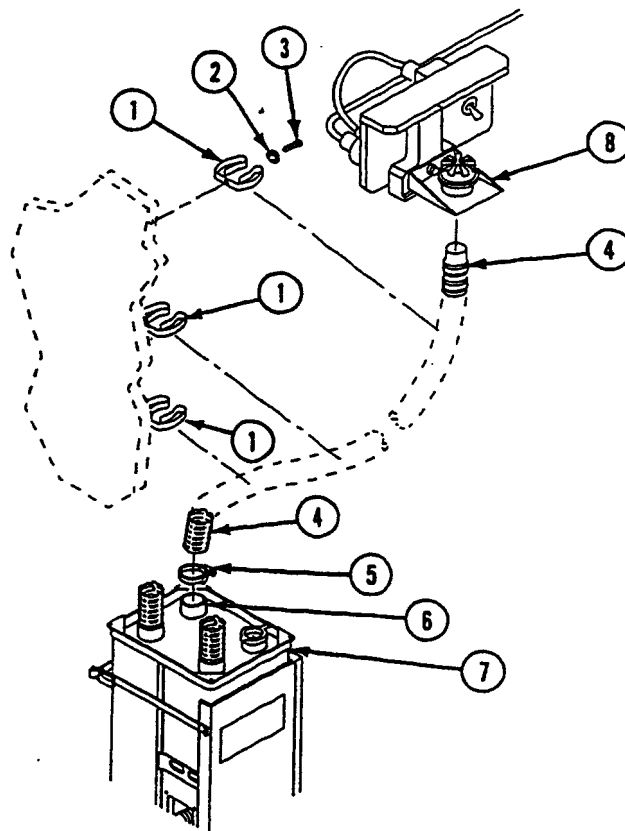
4. Remove screw (7), lockwasher (8), and clip spring (6) from weldnut. Discard lockwasher and damaged clip spring.



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

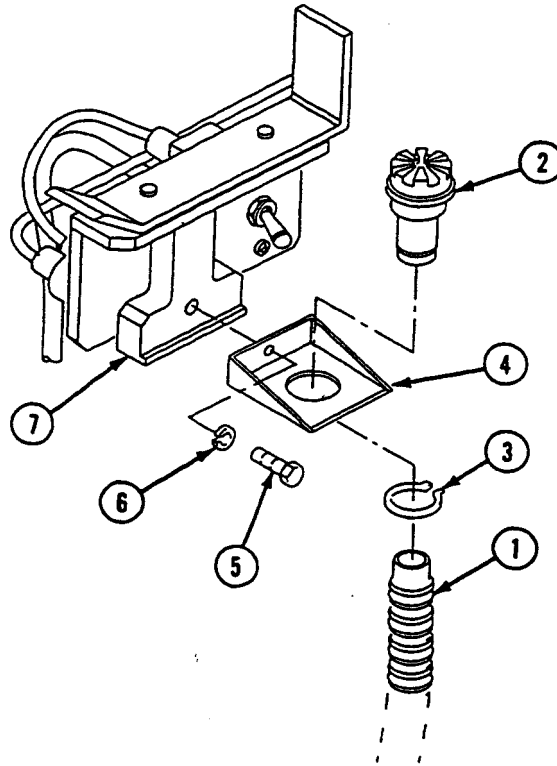
There are three orifice connector assemblies and mounting brackets for the M58 vehicle; one for the commander, driver, and operator. All are removed/installed the same way.

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.



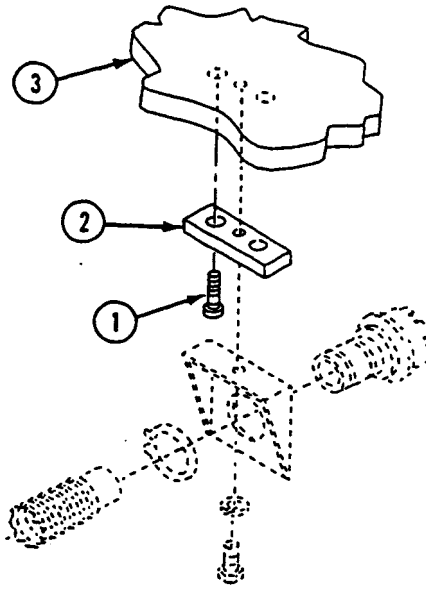
REPLACE NBC ORIFICE CONNECTOR ASSEMBLY, MOUNTING BRACKET, AND SWITCH (M58 ONLY) — Continued

0916 00

NOTE

Do Step 5 if removing commander's and operator's support. Do Step 6 if removing driver's support and angle.

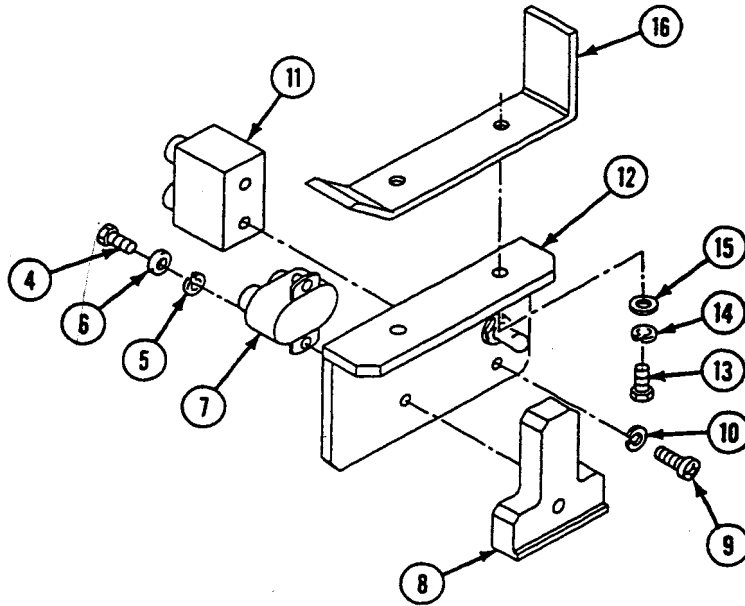
5. Remove two screws (1) and support (2) from top plate (3).



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

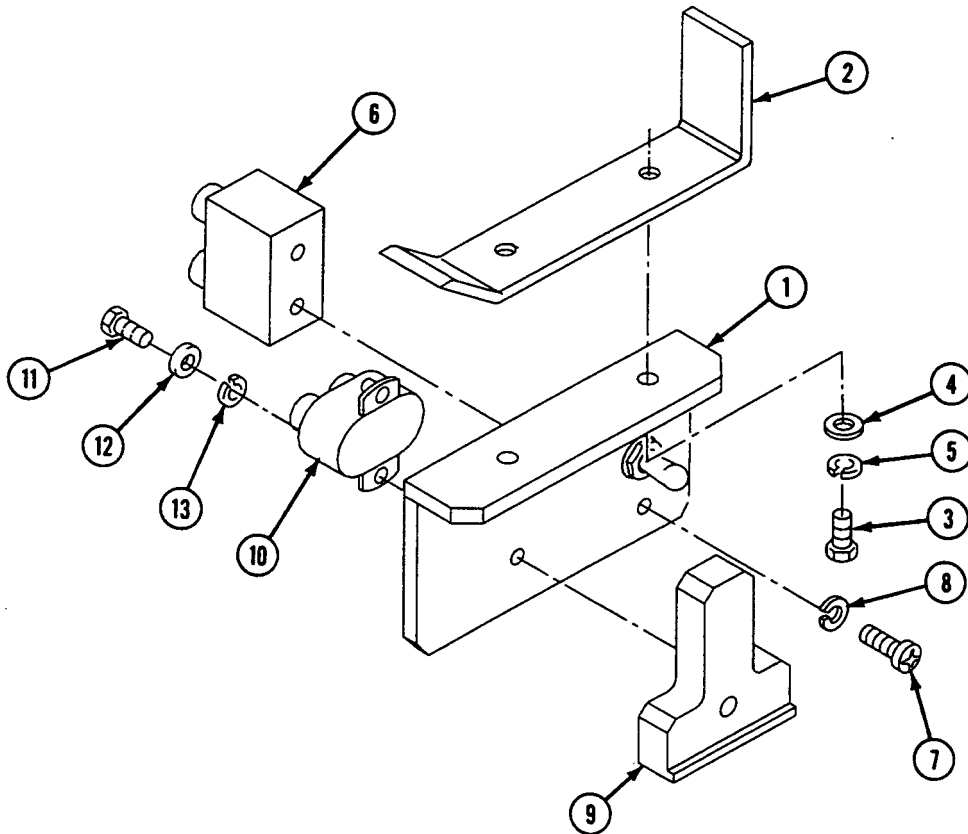
0916 00

INSTALLATION**NOTE**

Apply corrosion preventive compound to all threaded fasteners.

Do Steps 1 - 3 if installing driver's support and angle.

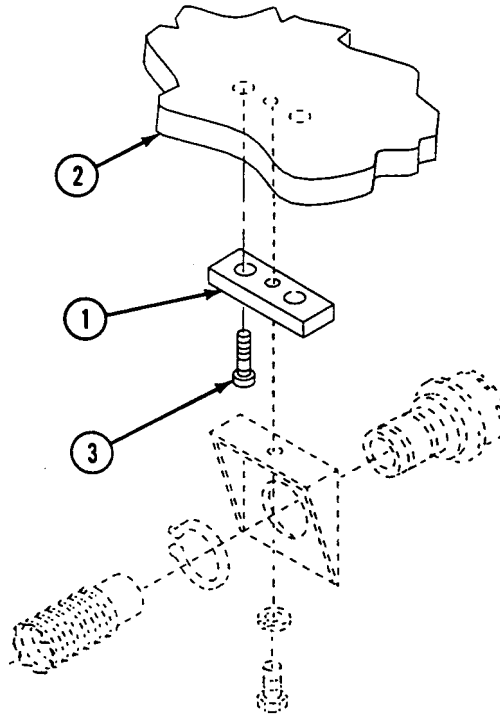
1. Align holes in angle (1) with holes in bracket (2). Secure angle (1) to bracket (2) with two screws (3), washers (4), and new lockwashers (5).
2. Install switch (6) on angle (1) with two screws (7) and new lockwashers (8).
3. Align holes in support (9) with holes in angle (1). Secure support (9) on 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.

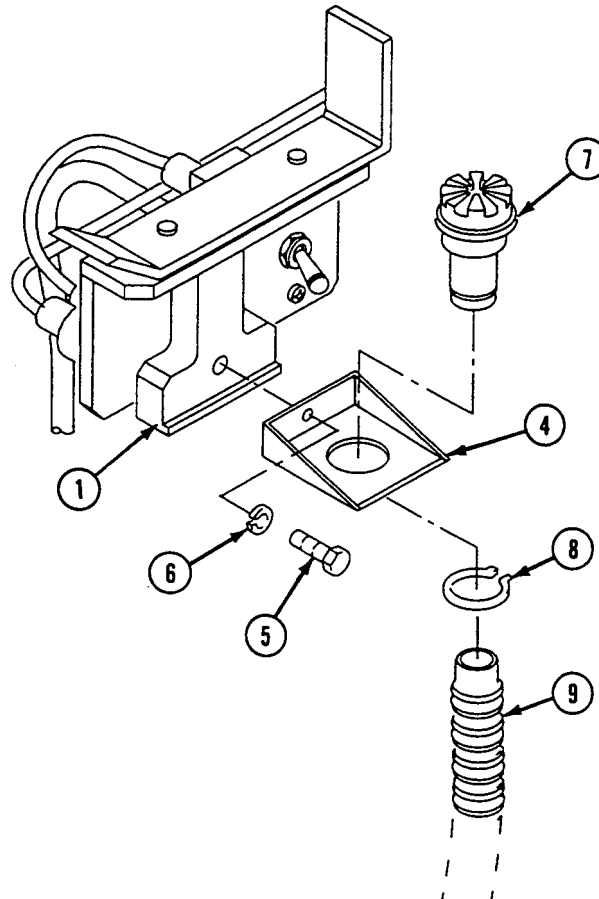
4. Install support (1) on top plate (2). Secure with two screws (3).



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)

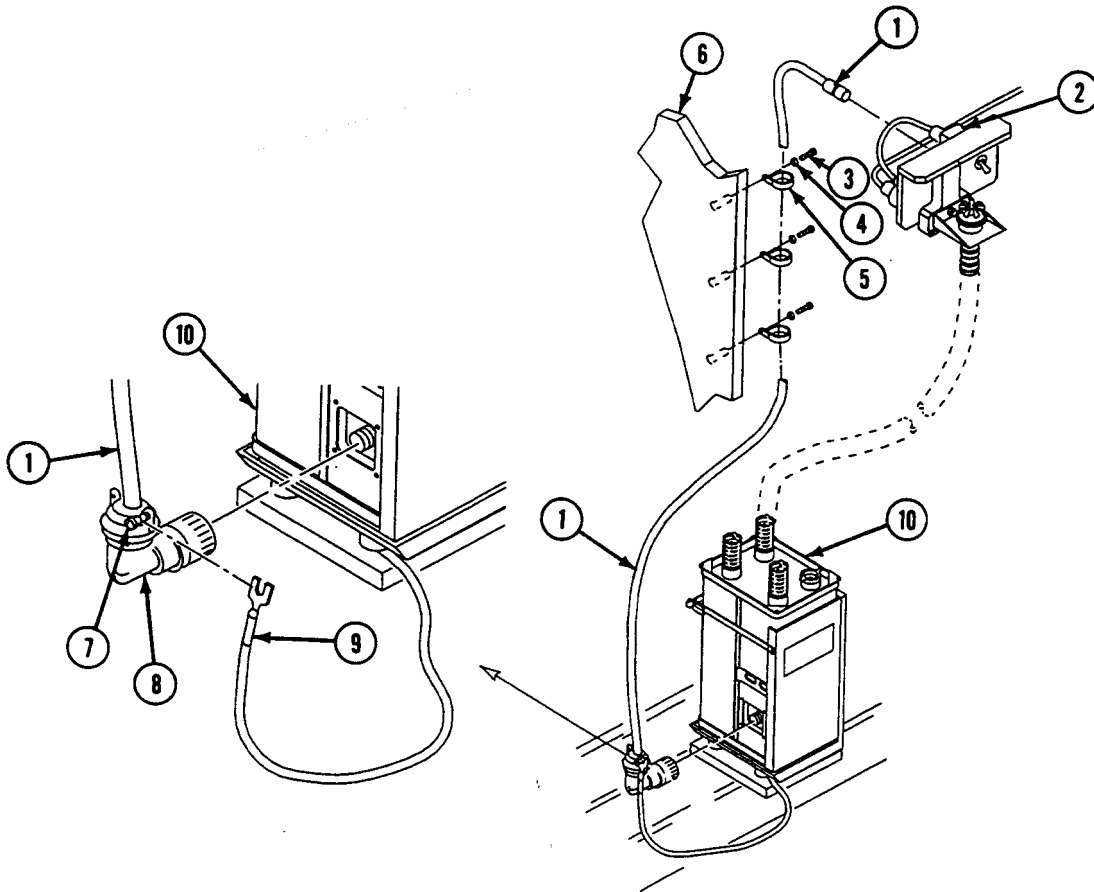
Equipment Condition

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).

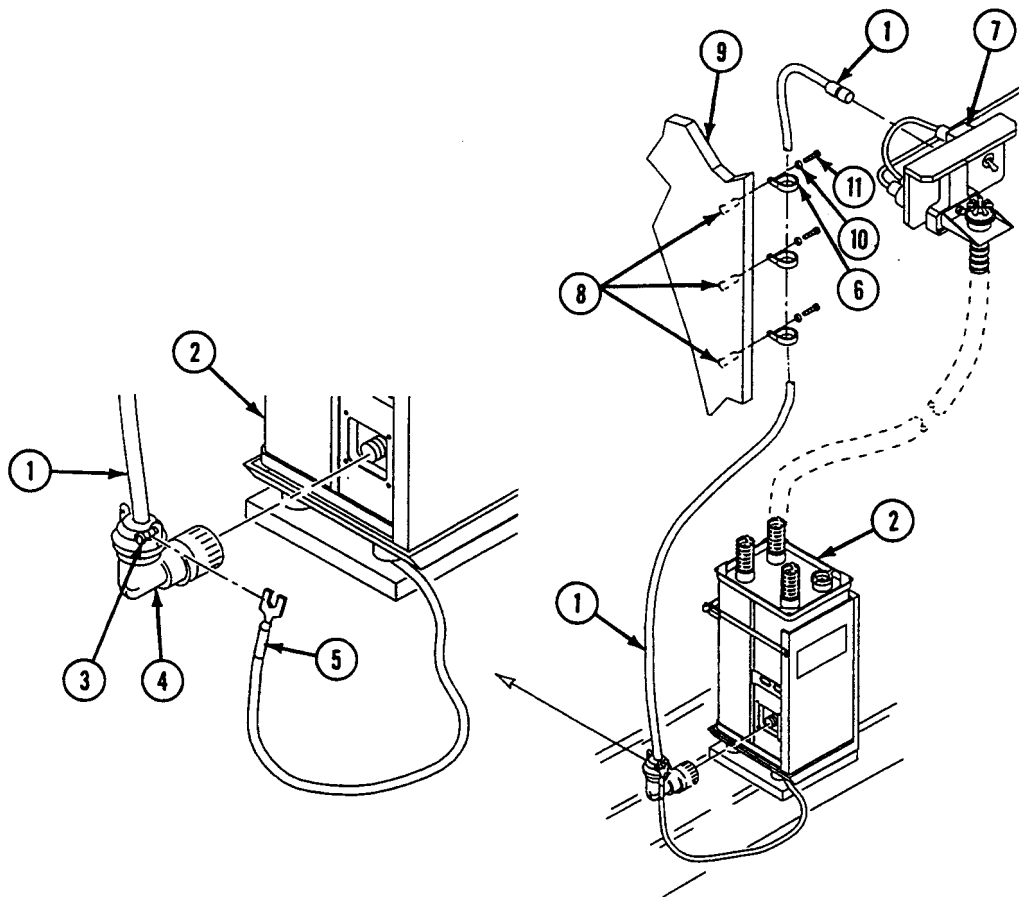
4. Remove cable assembly (1) from air purifier (10).



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

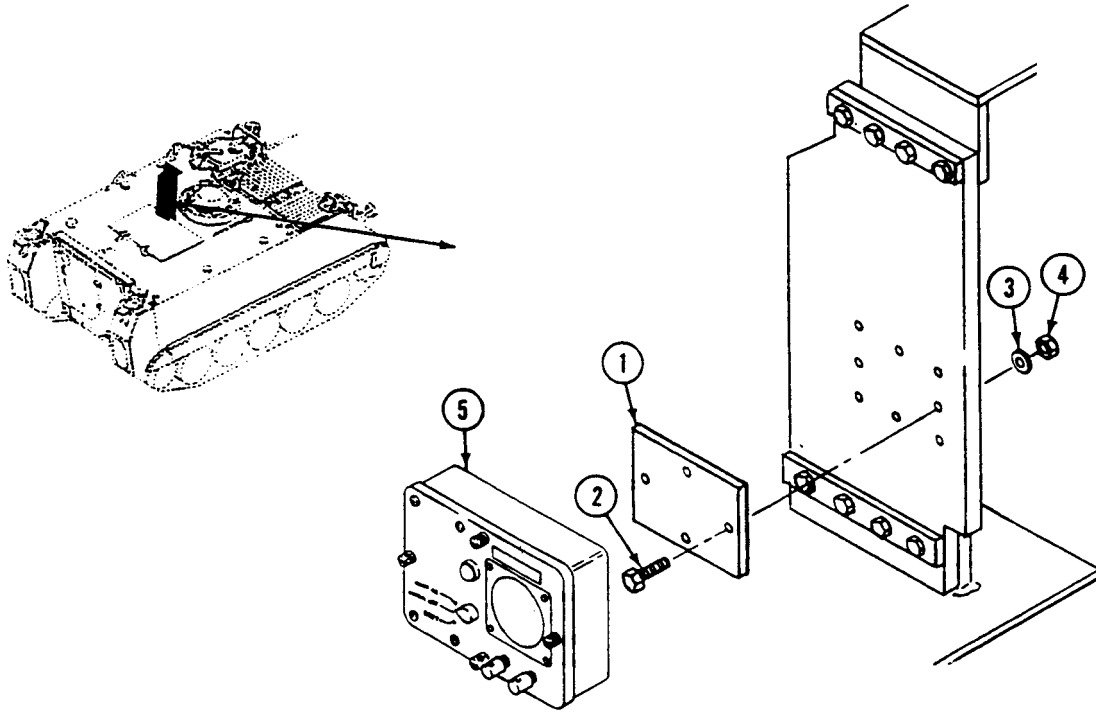
Check Alarm Kit before starting installation. Be sure Alarm Kit is complete. Install kit in right rear and left side center of troop compartment. Move spall liners, as required, to access mounting areas.

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.

INSTALL/REMOVE CHEMICAL AGENT AUTOMATIC ALARM KIT (M113A3 ONLY) —
Continued

0918 00

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

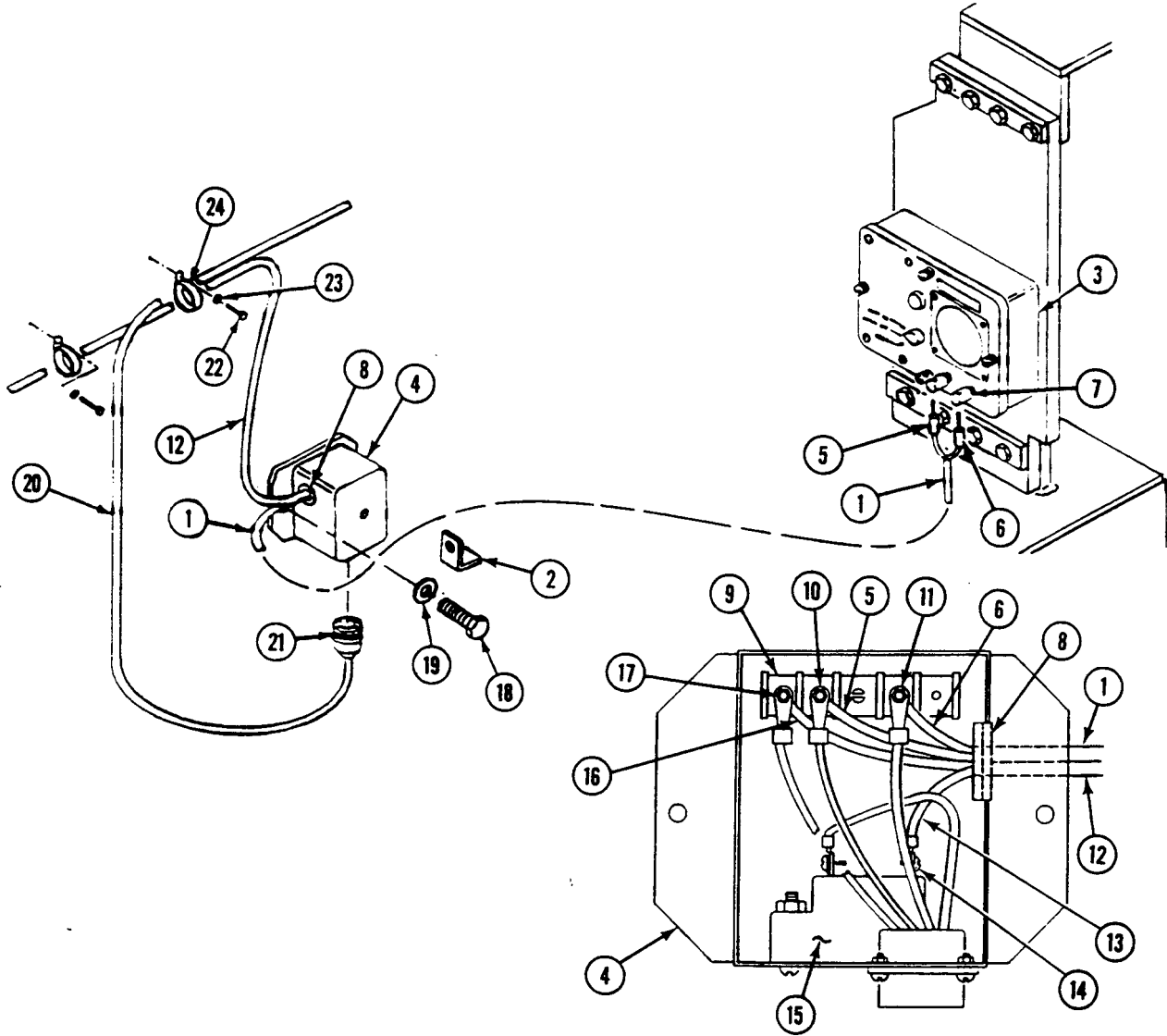
When removing terminal screws in junction box, to connect new cable leads, keep existing leads attached to correct terminals.

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

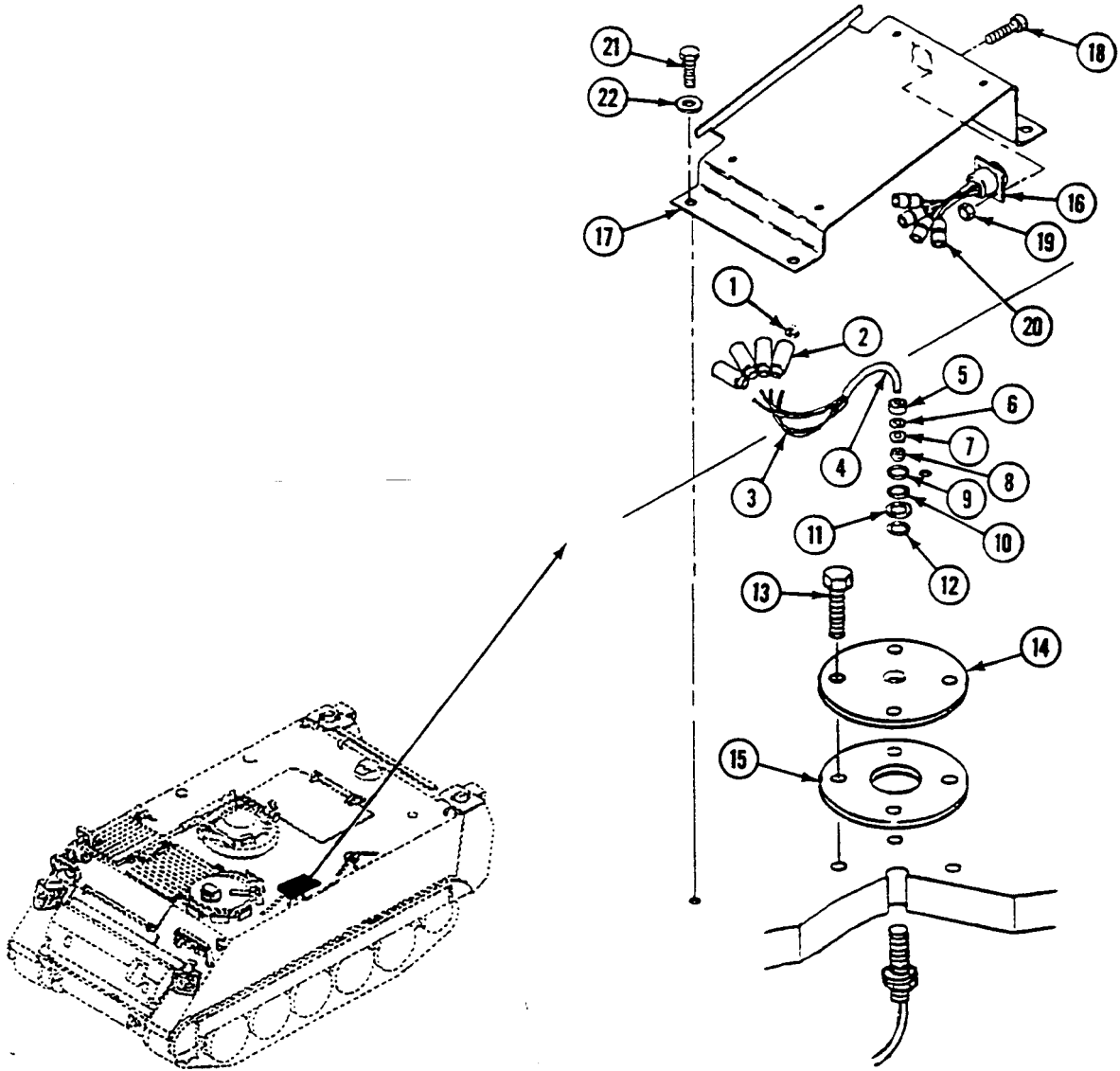
Four replacement screws are shorter than screws removed with cover plate.

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

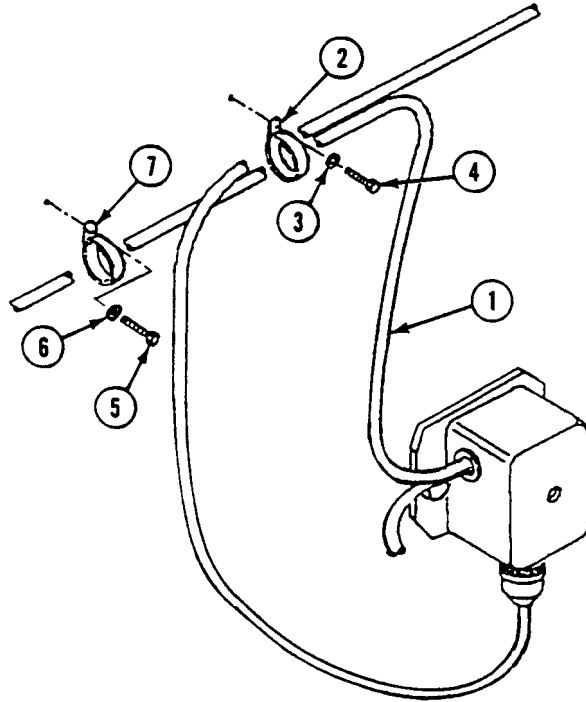
21. Install bracket (17) on carrier with four screws (21) and washers (22).



INSTALL/REMOVE CHEMICAL AGENT AUTOMATIC ALARM KIT (M113A3 ONLY) —
Continued

0918 00

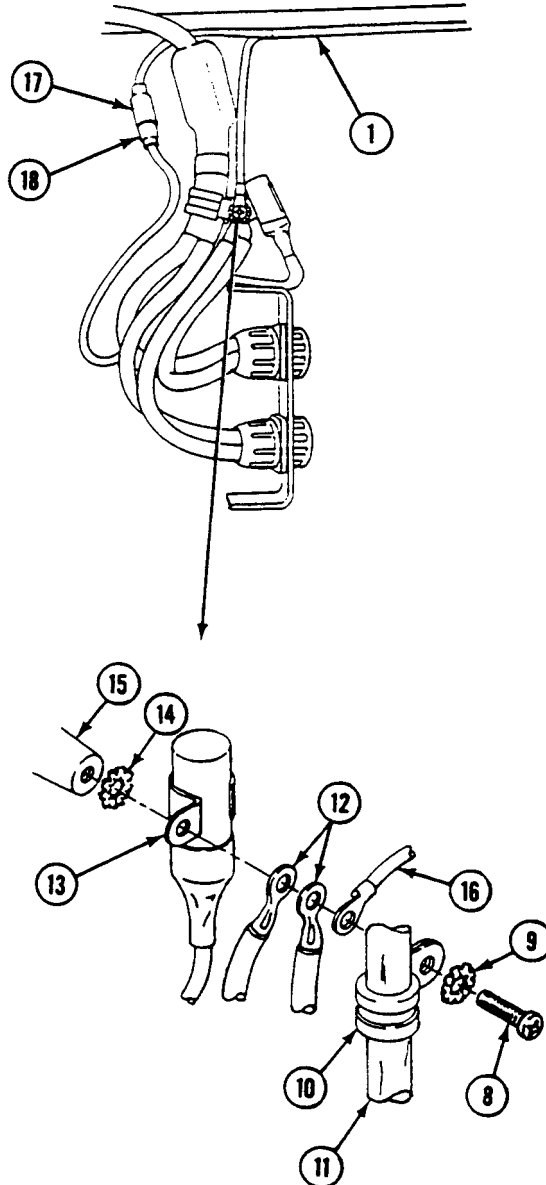
22. Route power cable (1) through clamp (2) previously removed (Step 11). Re-attach clamp (2) with washer (3) and screw (4).
23. Remove screw (5), washer (6) and clamp (7). Install power cable (1) through clamp (7) and re-attach with washer (6) and screw (5).



INSTALL/REMOVE CHEMICAL AGENT AUTOMATIC ALARM KIT (M113A3 ONLY) —
Continued

0918 00

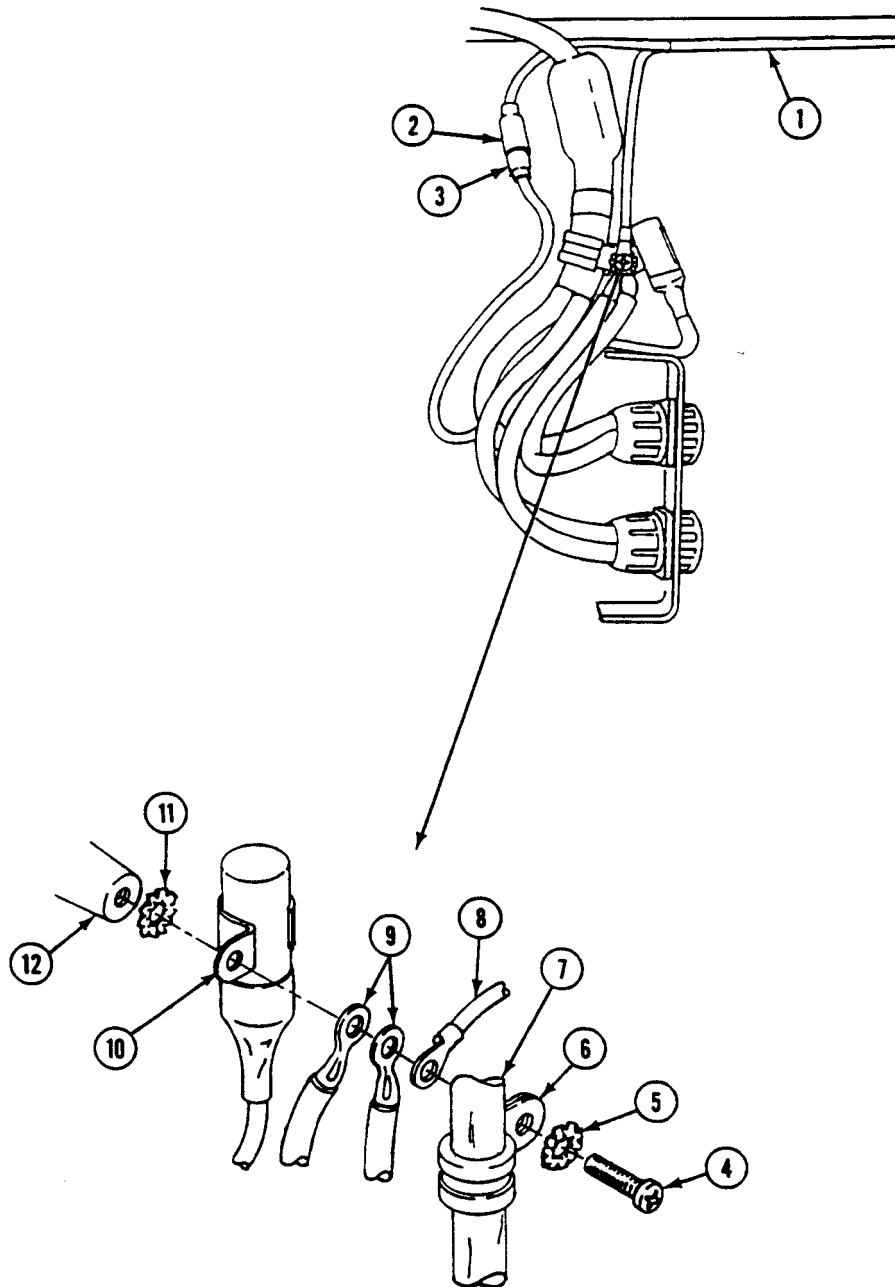
24. Remove screw (8), lockwasher (9), clamp (10) with cable (11), two ground leads (12), capacitor bracket (13), and lockwasher (14) from weldnut (15). Discard lockwashers.
25. On weldnut (15), install new lockwasher (14), capacitor bracket (13), two ground leads (12), power cable (1), ground lead (16), 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.

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).



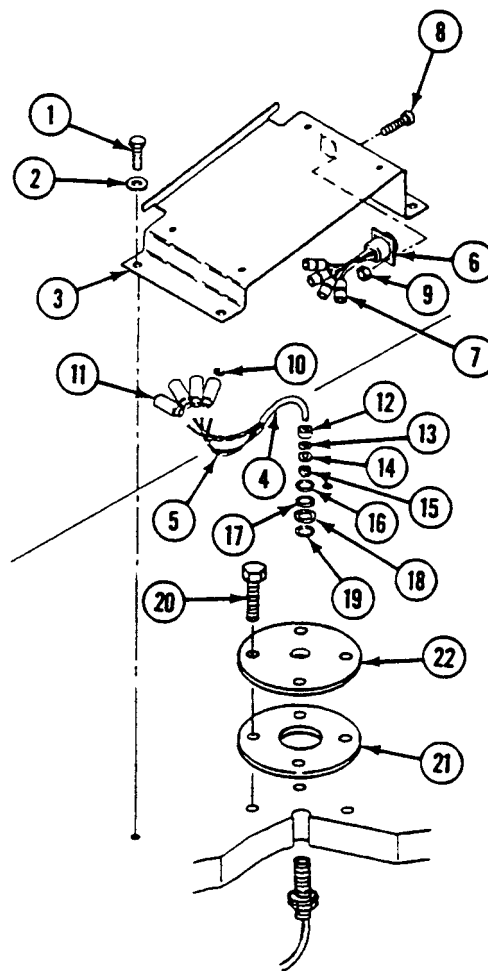
INSTALL/REMOVE CHEMICAL AGENT AUTOMATIC ALARM KIT (M113A3 ONLY) —
Continued

0918 00

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.

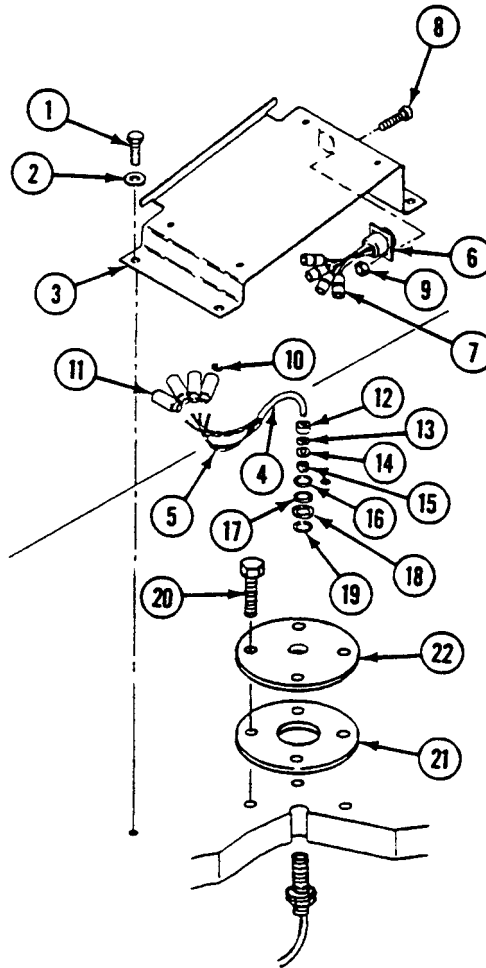


7. Remove C-clip retainers (10) and backshells (11) from four wiring harness (4) leads (5). Save retainers.
8. Remove coupling nut (12), spring tension washer (13), retainer (14), bushing (15), nut (16), lockwasher (17), flat washer (18), and insulator washer (19) from harness (4).
9. Push harness (4) 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

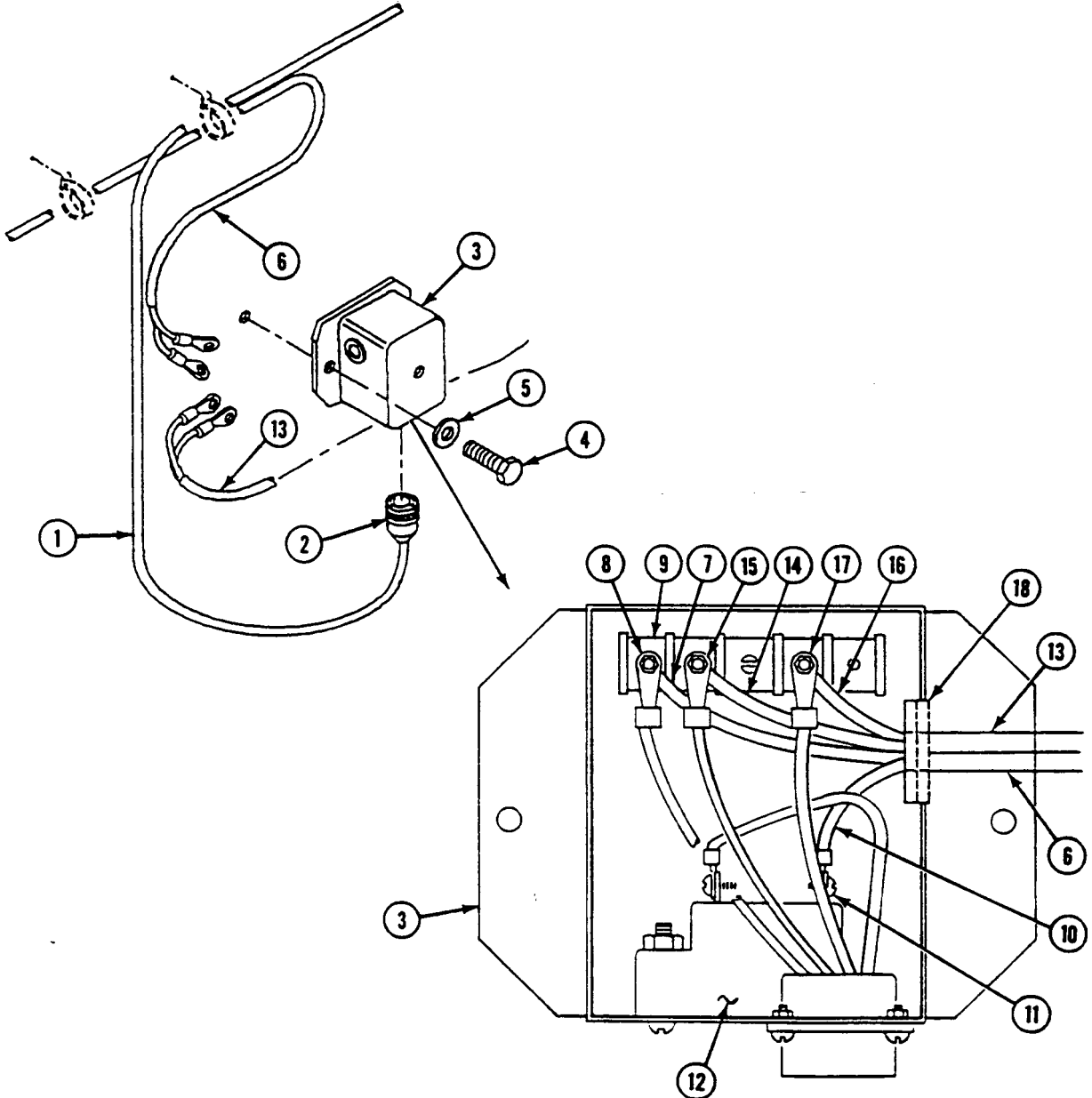
Only remove indicated leads. Four leads of internal harness should stay attached to terminals inside junction box.

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

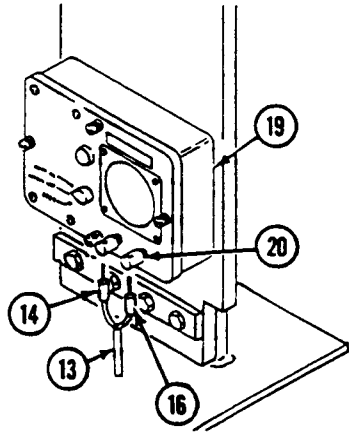
15. Disconnect alarm cable (13) leads from junction box (3) terminal board (9) as follows:
 - Lead 509B (14) from terminal (15).
 - Lead 509C (16) from terminal (17).
16. Pull cable (6) and (13) leads out of junction box (3) through grommet (18).



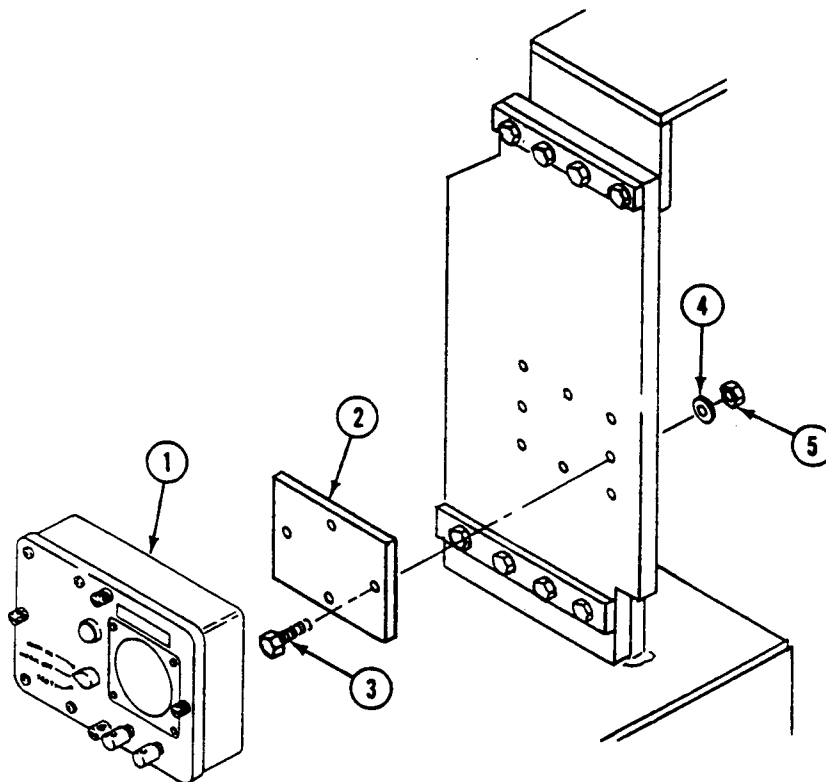
INSTALL/REMOVE CHEMICAL AGENT AUTOMATIC ALARM KIT (M113A3 ONLY) —
Continued

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 spill 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**

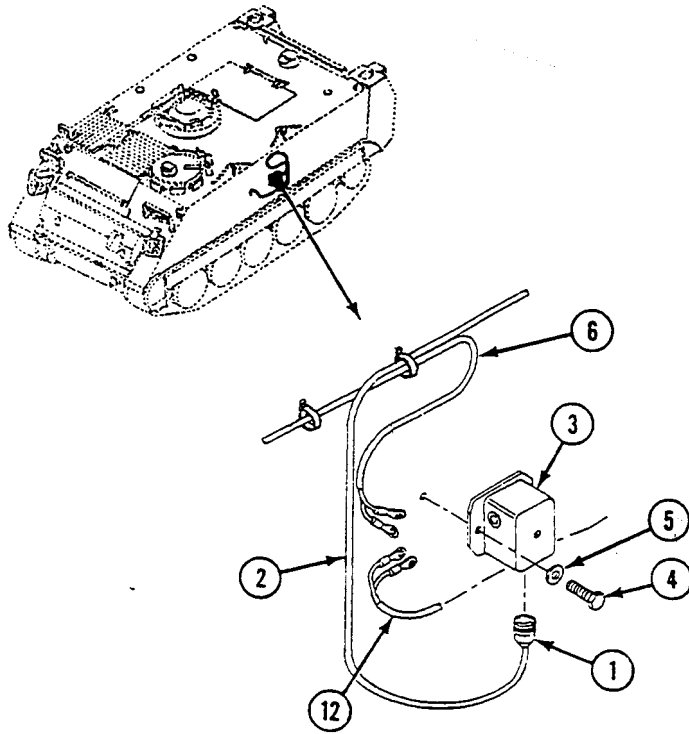
0919 00

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.

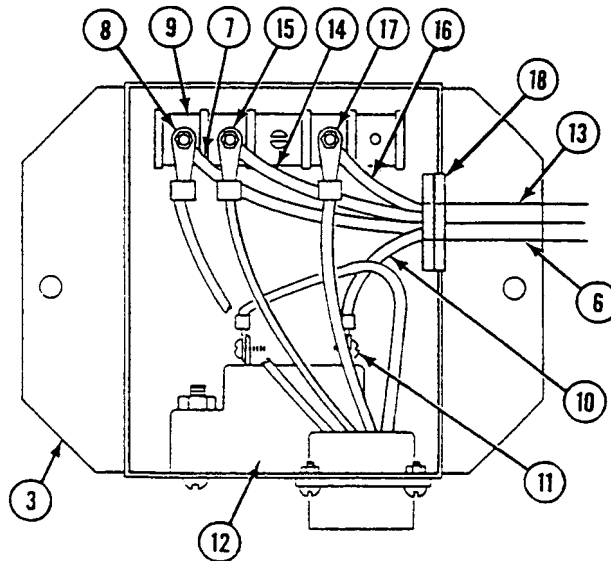


**REPLACE CHEMICAL ALARM JUNCTION BOX/POWER CABLE/ALARM CABLE
(M113A3 ONLY) — Continued**

0919 00

NOTE**Tag all leads before disassembly**

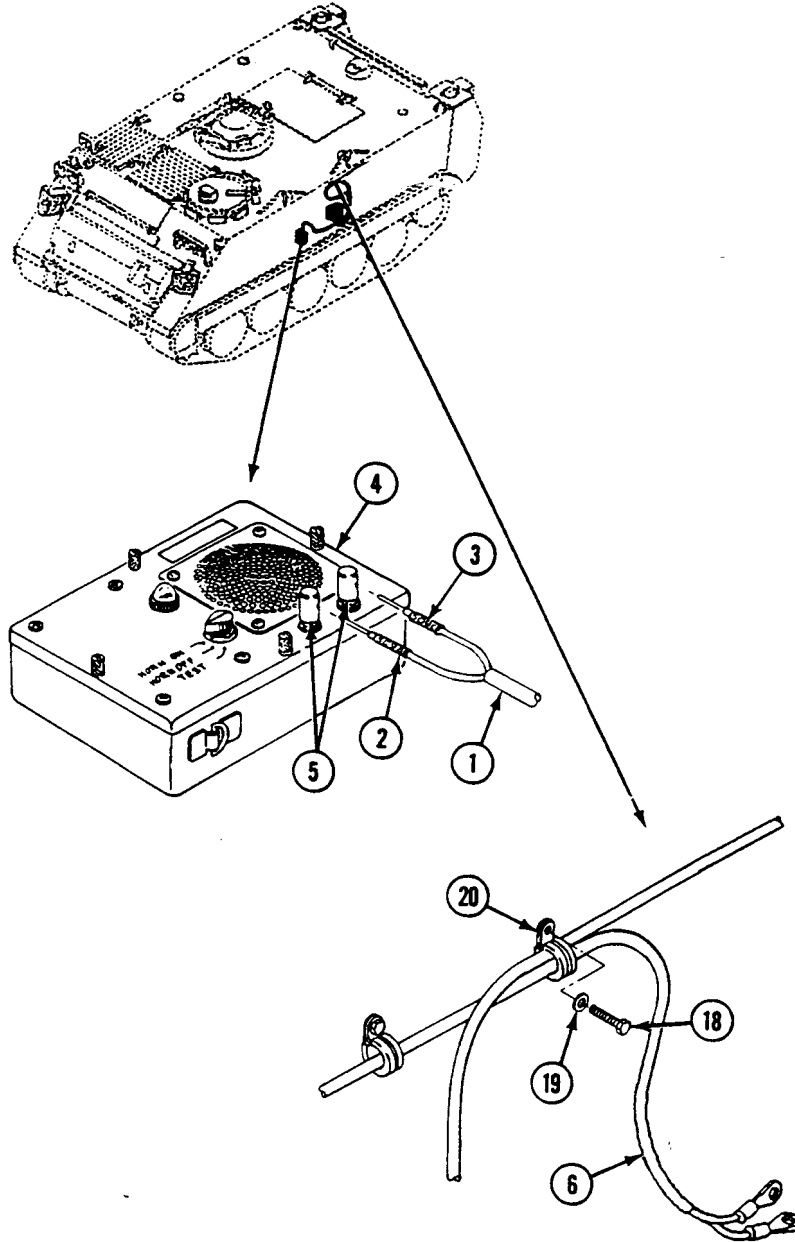
3. Disconnect power cable (6) lead 7B NEG (7) from terminal (8) on terminal board (9) and lead 6B POS (10) from terminal (11) on circuit breaker (12).
4. Disconnect alarm cable (13) lead 509B (14) from terminal (15) and lead 509C (16) from terminal (17) on terminal board (9).
5. Pull cable leads out of junction box (3) through grommet (18).



REPLACE CHEMICAL ALARM JUNCTION BOX/POWER CABLE/ALARM CABLE
(M113A3 ONLY) — Continued

0919 00

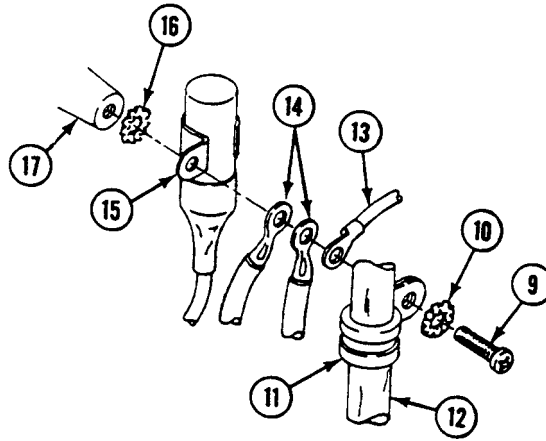
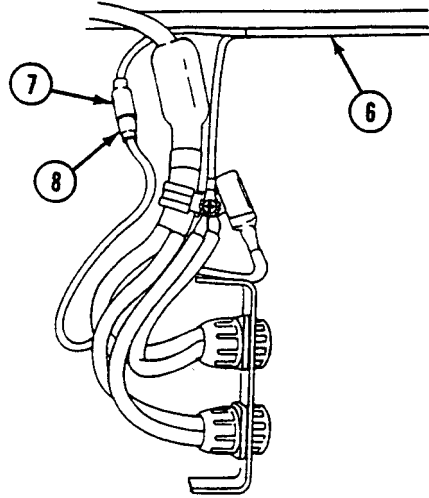
6. Disconnect alarm cable (1) lead 509B (2) and lead 509C (3) from M42 Chemical Alarm Unit (4) terminals (5).



**REPLACE CHEMICAL ALARM JUNCTION BOX/POWER CABLE/ALARM CABLE
(M113A3 ONLY) — Continued**

0919 00

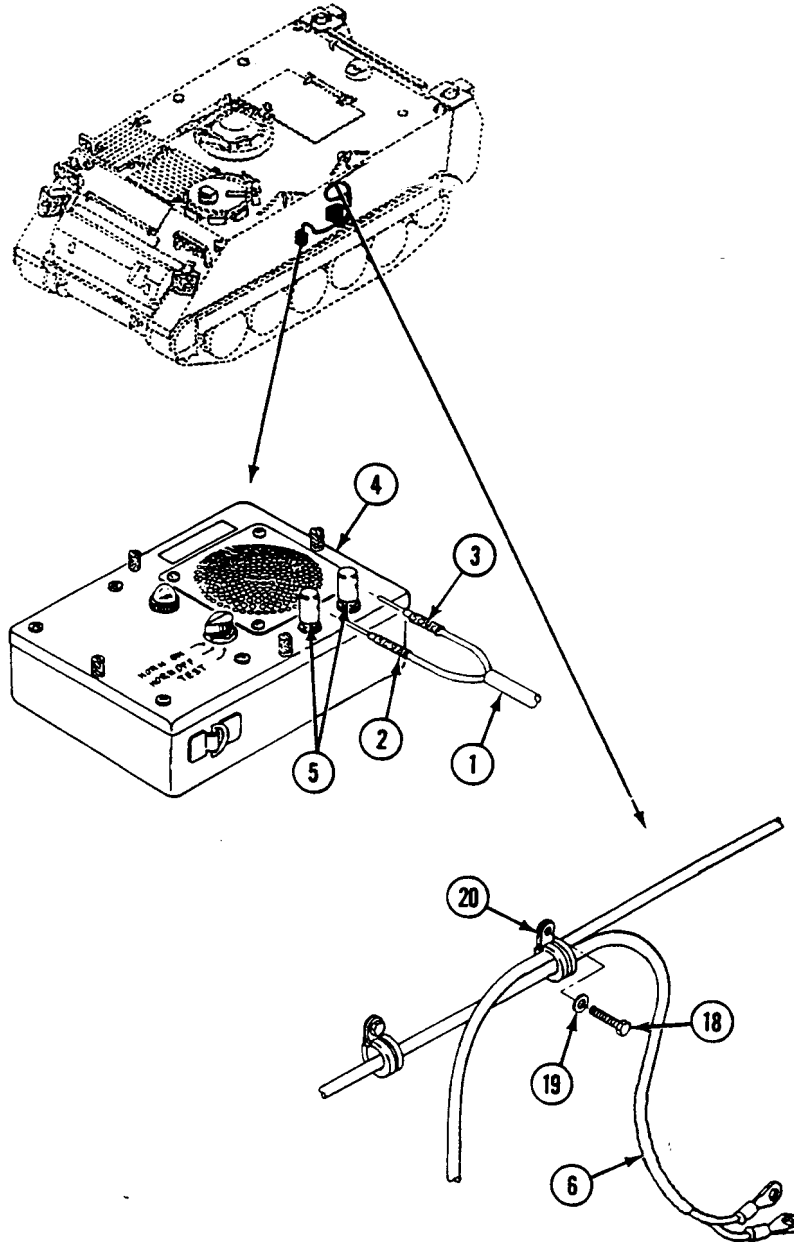
7. Disconnect power cable (6) plug 6B POS (7) from socket (8).
8. Remove screw (9), lockwasher (10), clamp (11) with cable (12), power cable (6), ground lead (13), two ground leads (14), capacitor bracket (15), and lockwasher (16) from weldnut (17). Discard lockwashers.



**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.

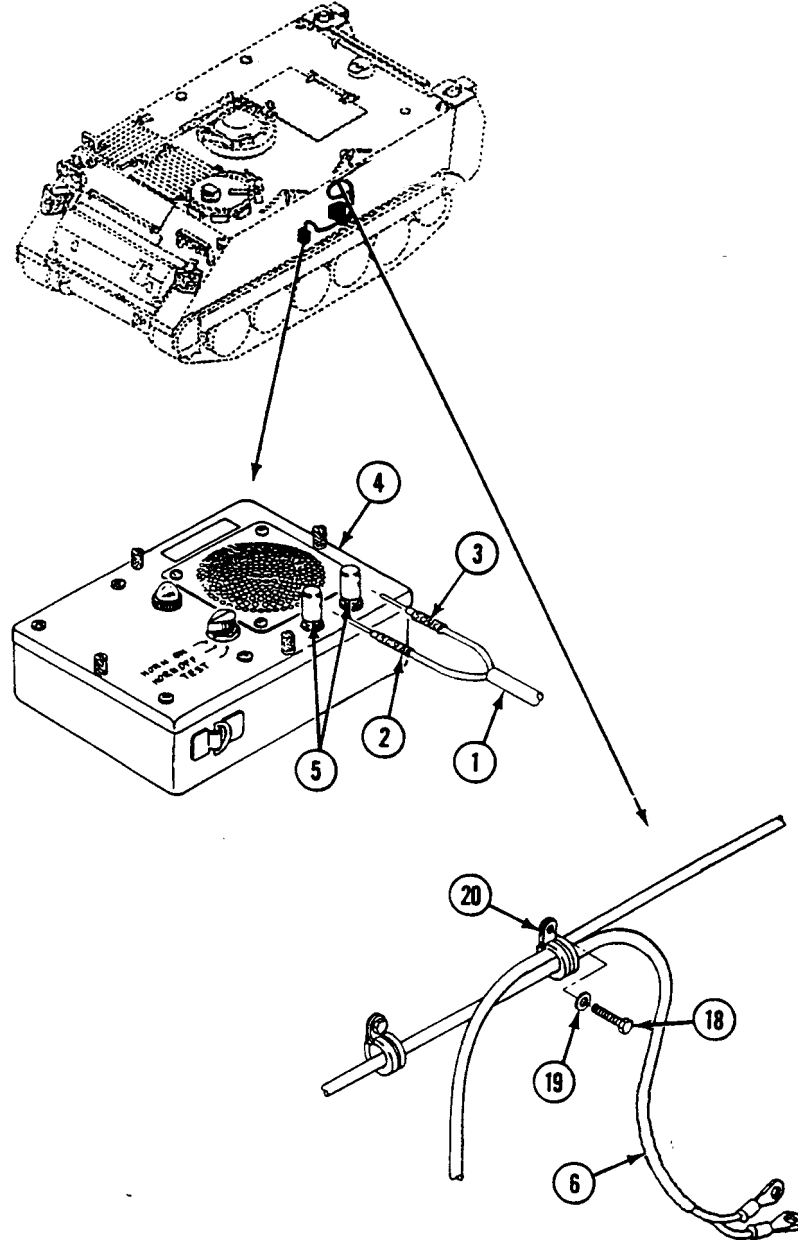
**INSPECTION-ACCEPTANCE AND REJECTION CRITERIA**

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

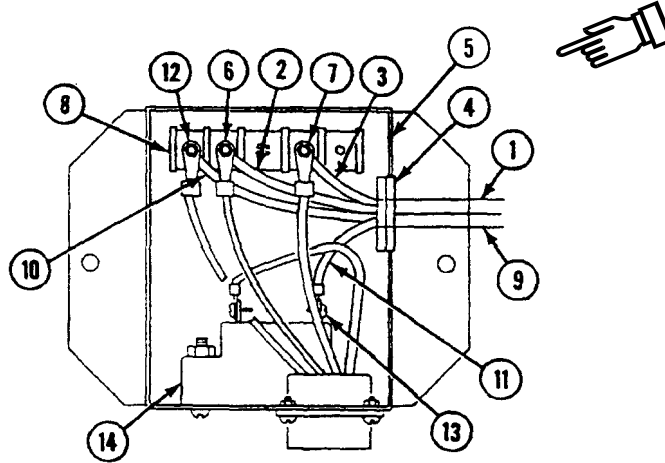
1. Replace damaged terminals and connectors as required.

**REPLACE CHEMICAL ALARM JUNCTION BOX/POWER CABLE/ALARM CABLE
(M113A3 ONLY) — Continued**

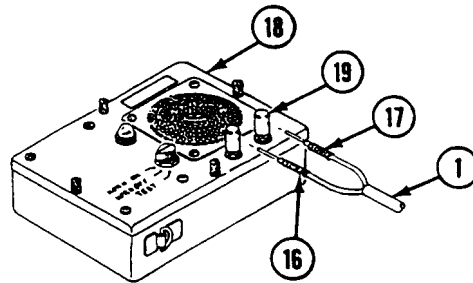
0919 00

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).

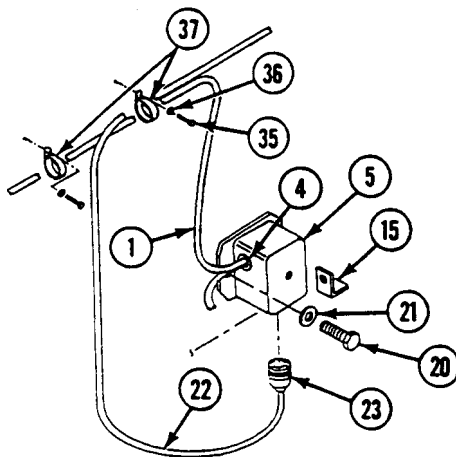


6. Install two screws (20), washers (21) and junction box (5) to hull.

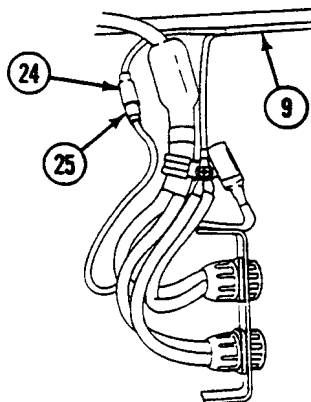
**REPLACE CHEMICAL ALARM JUNCTION BOX/POWER CABLE/ALARM CABLE
(M113A3 ONLY) — Continued**

0919 00

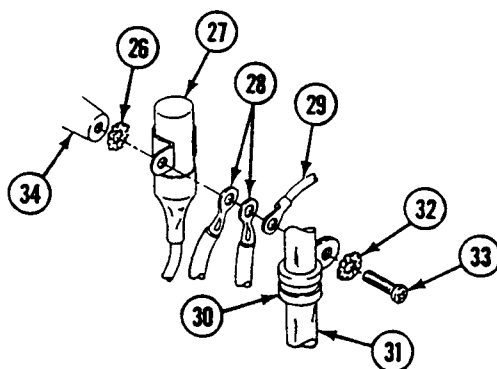
7. Connect wiring harness (22) plug (23) to jack on bottom of junction box (5).



8. Connect power cable (9) plug 6B POS (24) to socket (25).



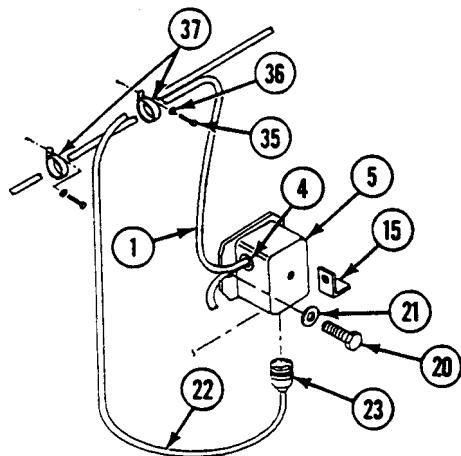
9. Install new lockwasher (26), capacitor bracket (27), two ground leads (28), power cable (9), ground lead (29), clamp (30) with cable (31), new lockwasher (32) and screw (33) on weldnut (34).



**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

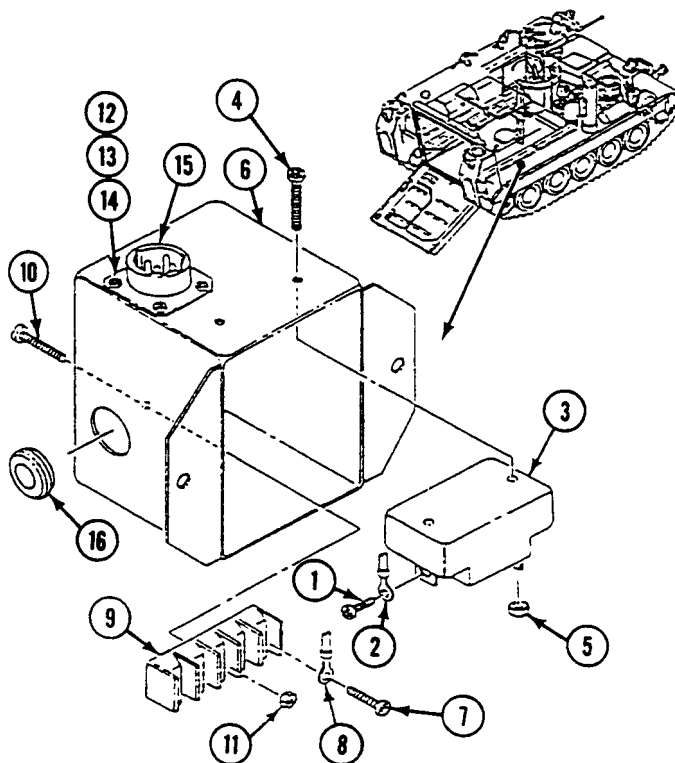
Tag all leads before disconnecting.

3. Remove three screws (7) and three leads (8) from terminal board (9).

REPAIR CHEMICAL ALARM JUNCTION BOX (M113A3 ONLY) — Continued

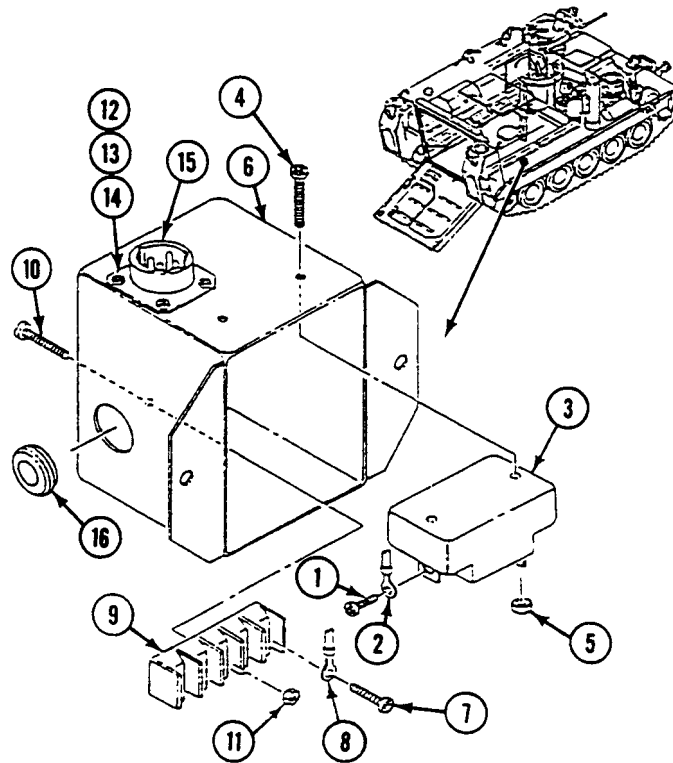
0920 00

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)

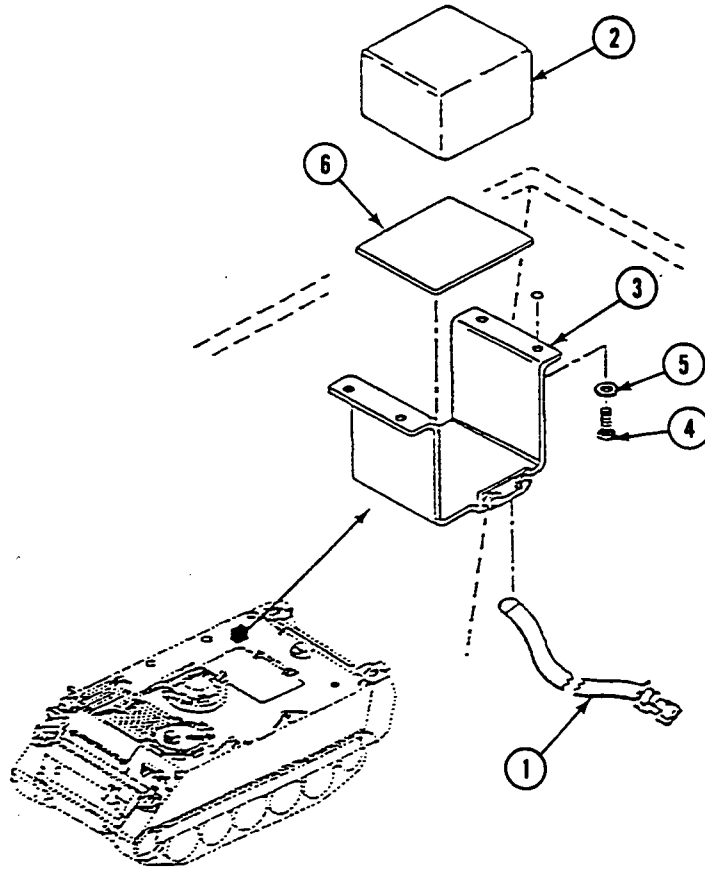
REMOVAL

1. Remove strap (1) and battery (2) from bracket (3).

REPLACE/REPAIR CHEMICAL ALARM SPARE BATTERY BRACKET (M113A3 ONLY) —
Continued

0921 00

- Remove four screws (4), washers (5), and battery bracket from vehicle top plate.

**REPAIR OR REPLACEMENT**

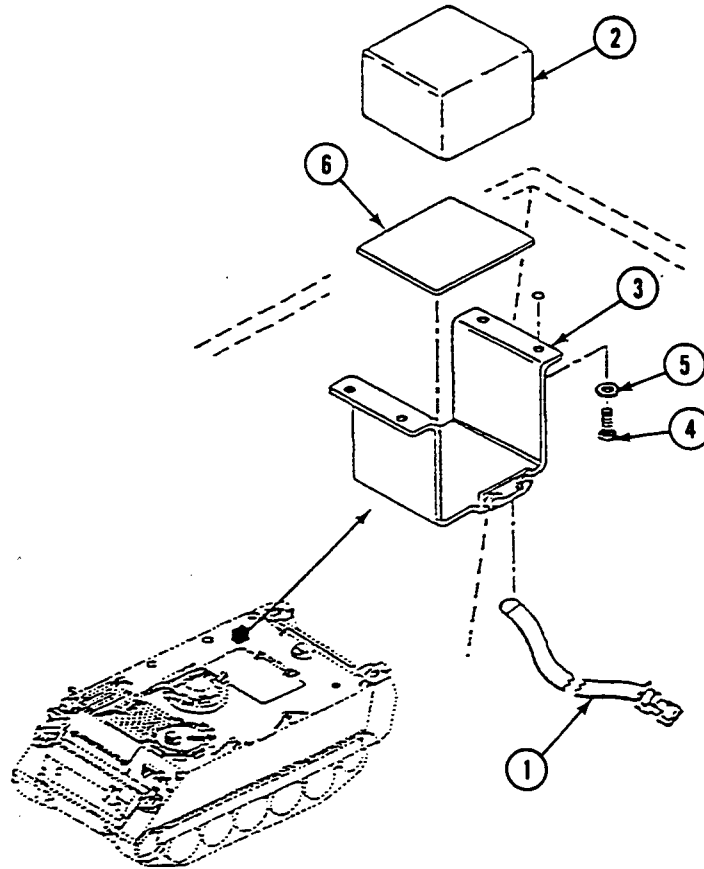
- Inspect pad (6) for damage. If pad is damaged, remove pad.
- Apply thin coat of adhesive to bottom of pad (6) and to mating surface of bracket (3). Allow 10 to 20 minutes of drying time. Press surfaces together firmly.

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)

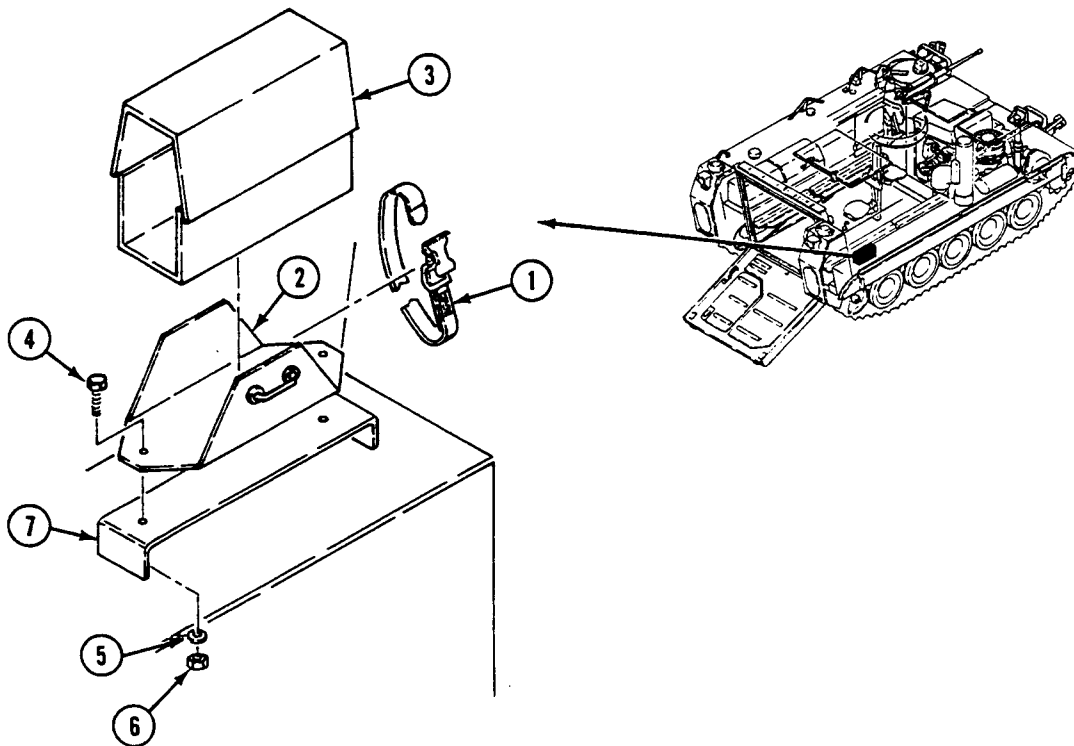
Personnel Required

Unit Mechanic

Ramp lowered (see your -10)

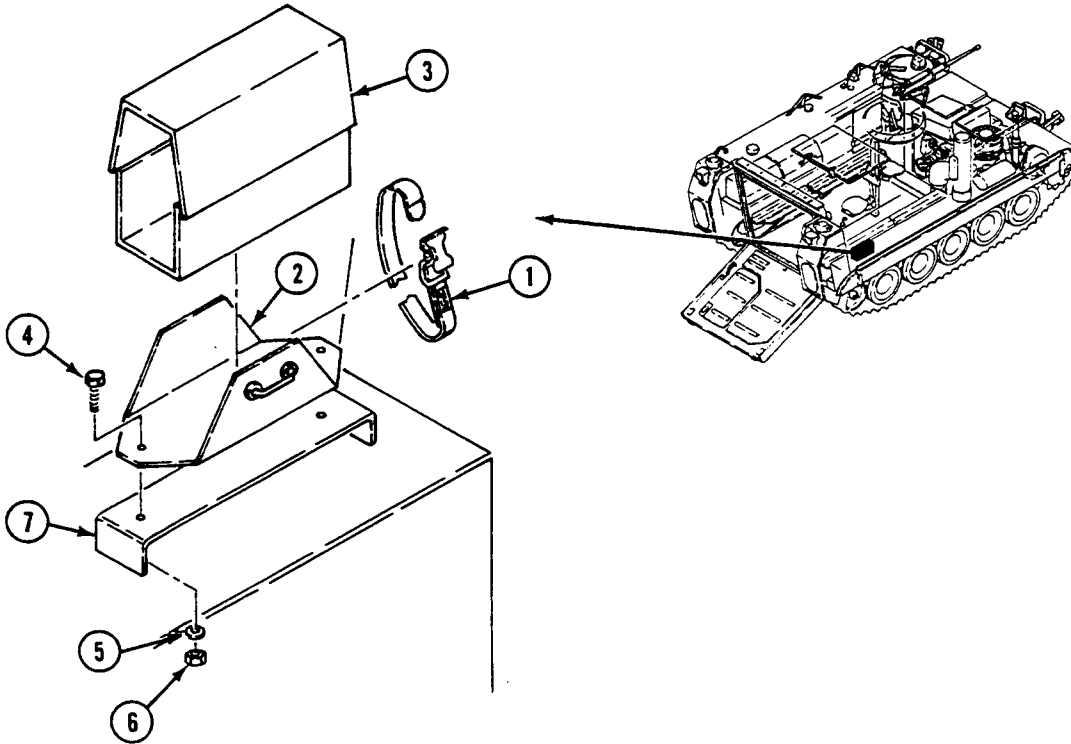
REMOVAL

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

Engine stopped (see your -10)

Carrier blocked (see your -10)

Ramp lowered (see your -10)

Battery ground strap disconnected (WP 0337 00)

Materials/Parts

Locknut (4)

Personnel Required

Unit Mechanic

Helper (H)

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

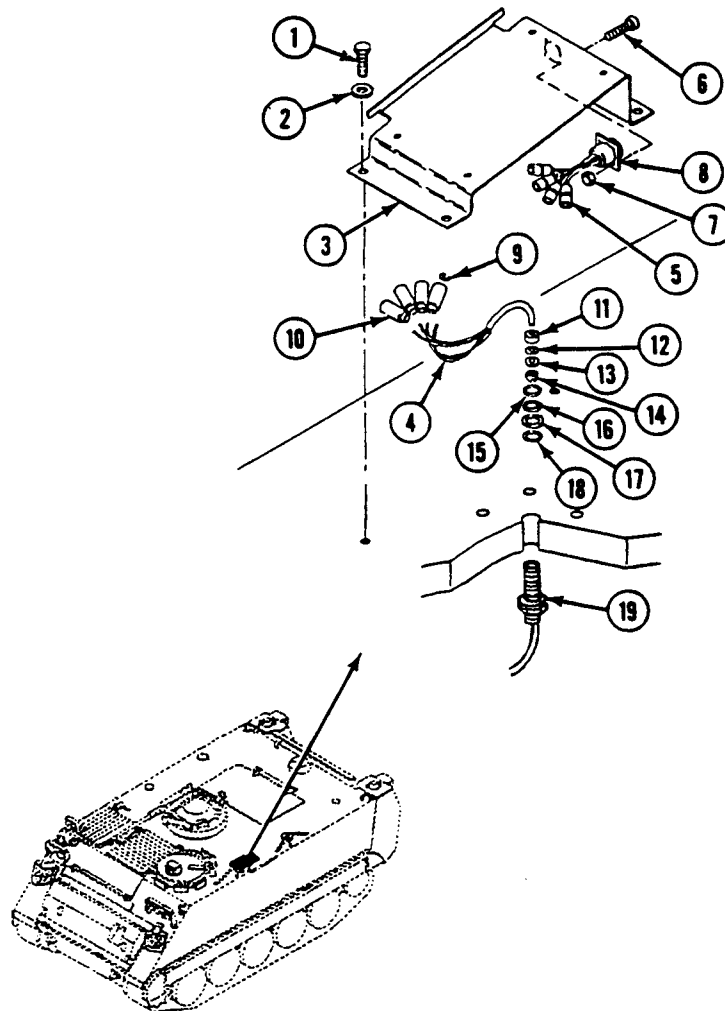
Tag leads before disconnecting.

2. Disconnect four leads (4) from leads (5).

REPLACE CHEMICAL ALARM M43 UNIT INTERFACE WIRING HARNESSSES (M113A3 ONLY) — Continued

0923 00

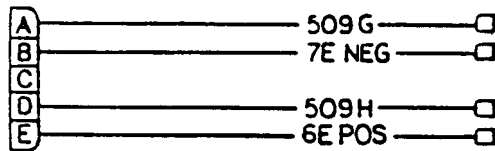
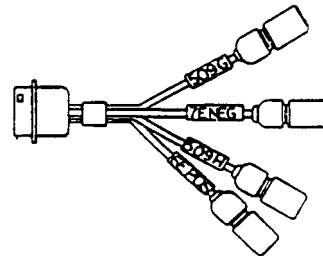
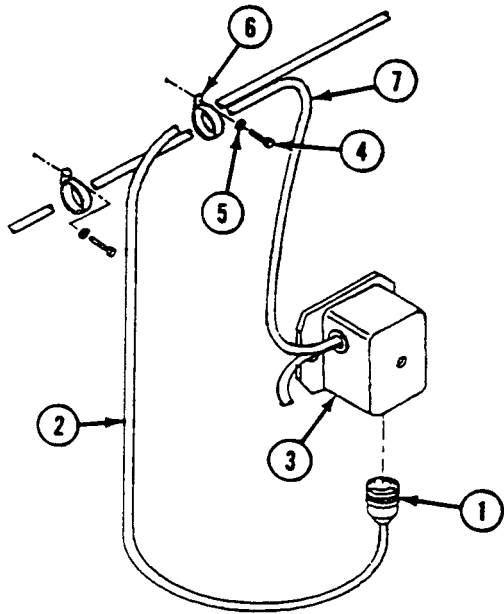
3. Remove four screws (6), locknuts (7), and wiring harness (8) from bracket (3). Discard locknuts.
4. Remove four C-clip retainers (9) and backshells (10) from leads (4). Save retainers.
5. Remove coupling nut (11), spring tension washer (12), retainer (13), bushing (14), nut (15), lockwasher (16), 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).



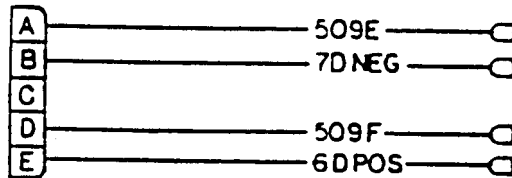
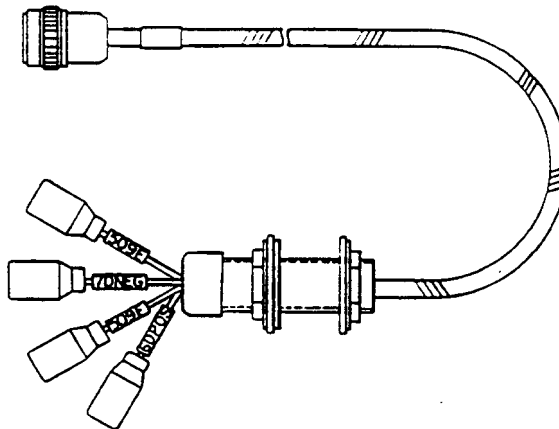
REPLACE CHEMICAL ALARM M43 UNIT INTERFACE WIRING HARNESSSES (M113A3 ONLY) — Continued

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

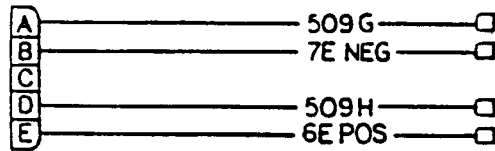
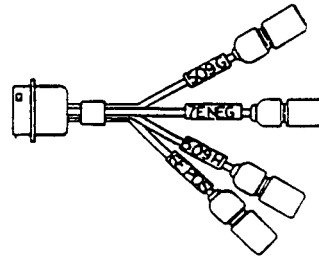
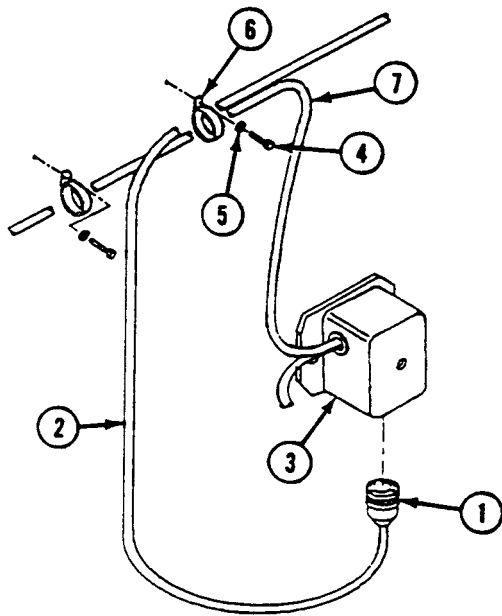
1. Check leads for continuity.
2. Inspect harnesses for damage.
3. Check multiple pin connector for damage. If damaged, notify supervisor.

REPAIR OR REPLACEMENT

1. Repair damaged single pin connectors (WP 0382 00).

INSTALLATION

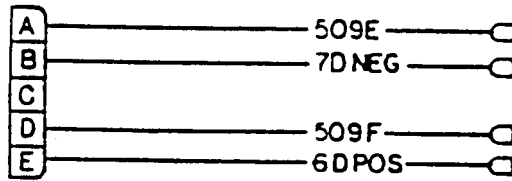
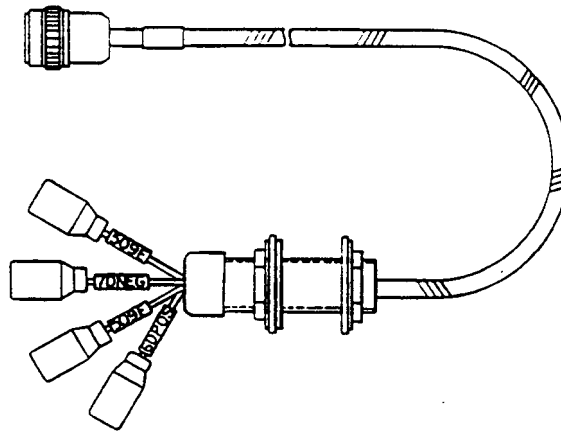
1. Route harness (2) and cable (7) through clamps (6). Secure to hull with washers (5) and screws (4).
2. Attach connector (1) on wiring harness (2) to jack on bottom of junction box (6).



WIRING DIAGRAM

REPLACE CHEMICAL ALARM M43 UNIT INTERFACE WIRING HARNESSSES (M113A3 ONLY) — Continued

0923 00



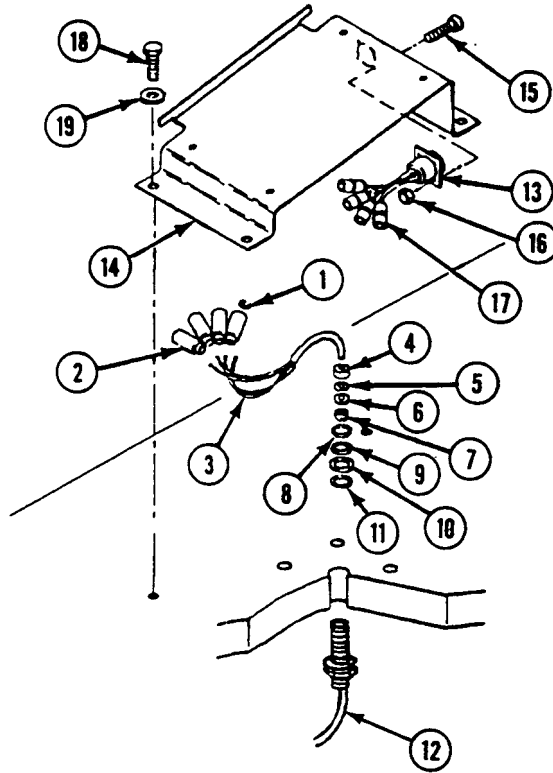
WIRING DIAGRAM

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

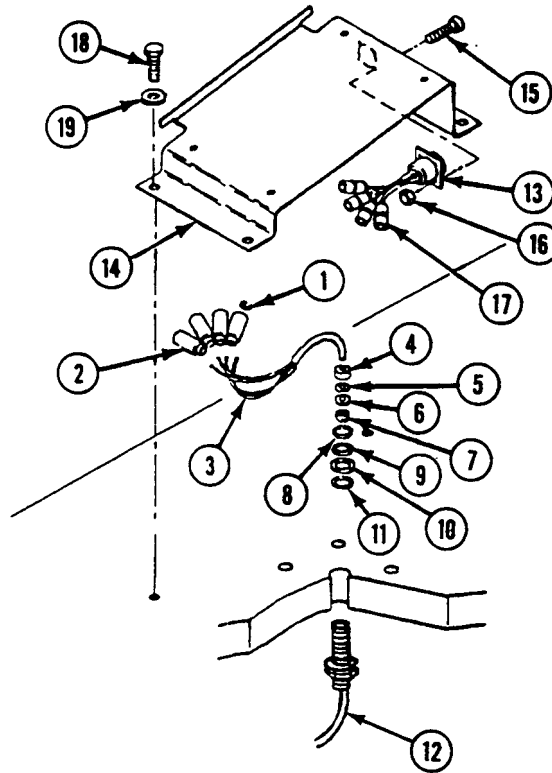
5. Insert harness (12) through hole in vehicle top plate. Have helper assist.



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 indexes, technical manuals, lubrication orders, miscellaneous publications, and forms referenced in this manual.

INDEXES

The following indexes should be consulted for the latest changes or revisions to references given in this appendix and for new publications relating to material covered in this technical manual.

Index of Army Motion Pictures and Related Audio Visual Aids.....	DA Pam 108-1
Index of Charging Systems Troubleshooting.....	DA Pam 750-33
Consolidated Index of Army Publications and Blank Forms.....	DA Pam 25-30

TECHNICAL MANUALS

Ammunition and Explosives Standards.....	TM 9-1300-206
Procedures for Destruction of Conventional Ammunition and Improved Conventional Munitions to Prevent Enemy Use.....	TM 750-244-5-1
Inspection, Care, and Maintenance of Antifriction Bearings.....	TM 9-214
Operator's Manual for Carriers M113A3, M577A3, M1059A3, M1064A3, M1068A3, and M58.....	TM 9-2350-277-10
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 Tester, Airflow, Gas-Particulate Filter Unit: M39.....	TM 3-6680-316-10
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
Operator, Organizational, DS and GS Maintenance Manual, Including Repair Parts and Special Tools List (including Depot Maintenance Repair Parts and Special Tools): Various Machine Gun Mounts and Combinations Used on Tactical and Armored Vehicles.....	TM 9-1005-224-14
Storage Batteries, Lead-Acid Type.....	TM 9-6140-200-14
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) and 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 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,	

REFERENCES—Continued

0924 00

- 28vdc (Model DC 4.2 Ord/28) (Y115-857-1297) Composed of: Starter, (Military Standard Model 4A032-1).....TM 5-6115-596-14
- Operator, Unit, and Direct Support Maintenance Manual with Repair Parts and Special Tools List, 5KW, 28vdc Auxiliary Power Unit.....TM9-6115-664-13&P
- 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, 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'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
- Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools) for Mast, AB-903/G (NSN 5965-00-933-2197).....TM 11-5965-263-24P
- 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 Manual: Welding Theory and Application.....TM 9-237
- 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, 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, 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's and Organizational Maintenance Manual Including Repair Parts and Special Tools List for Decontaminating Apparatus: Portable, 14 Liter, M13 NSN 4230-01-133-4124.....TM 9-4230-214-12&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), and AN/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 Manual; Alarm, Chemical Agent, Automatic, Portable.....TM 3-6665-255-12
- 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 11-5855-249-23P
- Organizational and Field Maintenance Repair Parts List for Generator Set, Gasoline Engine.....TM 9-6115-202-24&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

REFERENCES—Continued

0924 00

Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List: Engine, Gasoline, Military Standards Models (Model 4A032-1) (NSN 2805-00-776-0483) (Model 4A032-II) (NSN 2805-00-608-7512).....TM 5-2805-203-24P

Organizational, Direct Support and General Support Maintenance Manual: Engine, Gasoline: Military Standard Models (Model 4A032-I and Model 4A032-II).....TM 5-2805-203-24

Organizational Maintenance Manual for Viewers, Driver’s Night Vision, AN/VVS-2(V)1 (NSN 5855-00-629-5278), AN/VVS-2(V)1A (5855-01-096-0871), AN/VVS-2(V)2 (5855-01-057-1880), AN/VVS-2(V)2A (5855-01-096-0872), and AN/VVS-2(V)3 (5855-01-105-7793).....TM 11-5855-249-20

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

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, M16 (Reprinted w/Basic Incl C1) (This Item is Included on EM 0038 and EM 0045).....TM 3-6665-273-20

Organizational Maintenance Manual: Installation Kits for Alarm Chemical Agent, Automatic Portable.....TM 3-6665-274-20

Organizational Manual for 120-MM Mortar, M285, Trailer-Mounted M120, and Carrier Mounted, M121.....TM 9-1015-250-10

Organizational, Direct Support, General Support, and Depot Maintenance Manual, Including Repair Parts and Special Tools Lists: Machine Gun, Caliber .50 Browning, M2 Heavy Barrel, Flexible.....TM 9-1005-213-25

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

Operator’s and Unit Maintenance Manual (Including Repair Parts and Special Tools Lists) for Driver’s Vision Enhancer, AN/VAS-5 (V) 1 (NSN 5855-01-394-7125), AN/VAS-5 (V) 2 (NSN 5855-01-452-1406), and AN/VAS-5 (V) 3 (NSN 5855-01-450-8108).....TM 11-5855-304-12&P

Machine Gun, Caliber .50 Browning, M2 Heavy Barrel, Flexible.....TM 9-1005-213-25

Painting Instructions for Field Use.....TM 43-0139

Preservation, Packaging, and Packing of Military Supplies and Equipment (Vols I and II).....TM 38-230-1 and TM 38-230-2

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

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0924 00

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 Depot Repair Parts) for 120-MM,
Towed, M120 Mortar; 120-MM, Carrier-Mounted, M121 Mortar.....TM 9-1015-250-23P

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

Unit Maintenance Manual for Generator, Smoke, Mechanical: Mechanized Smoke Obscurant
System, M58.....TM 3-1040-285-20

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

Use and Care of Hand Tools and Measuring Tools.....TM 9-243

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M1068A3, and M58.....LO 9-2350-277-12

OTHER PUBLICATIONS

Accident Reporting and Records.....AR 385-40

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Basic Cold Weather Manual.....FM 31-70

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Shipment of.....MIL-C-46746D(AT)

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M106, M106A2, and M125A2, and 120MM, M1064; and Smoke Generator, M1059;
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NBC Decontamination.....FM 3-5

Color, Marking, and Camouflage-Painting of Military Vehicles, Construction Equipment, and
Materials-Handling Equipment.....TB 43-0209

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Explosives and Demolitions.....FM 5-25

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

General Repair of Tents, Canvas, and Webbing.....FM 10-16

Malfunctions Involving Ammunition and Explosives.....AR 75-1

Mountain Operations.....FM 90-6

Operation and Maintenance of Ordnance Materiel in Cold Weather (0°F to -65°F).....FM 9-207

Packaging of Army Materiel for Shipment or Storage.....AR 746-1

Preservation, Packaging, Packing and Marking Materials, Supplies, and Equipment Used by
the Army.....SB 38-100

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

Chemical, Toxicological and Missile Fuel Handlers Protective Clothing.....TM 10-277

FORMS

Refer to DA Pam 25-30 for index of forms and to DA Pam 738-750 for explanation of use.

Equipment Component Register.....DA Form 2408-10

Equipment Control Record.....DA Form 2408-9

Equipment Daily or Monthly Log.....DA Form 2408-1

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).....SFForm 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. The MAC for the M157 Pulse Jet Generator set used in M1059A3 is in TM 3-1040-279-12&P. The MAC for the M1068A3 Common Hardware System (CHS) is covered in TM 11-7010-256-12. The MAC for the M1068A3 Modular Command Post System (MCPS) is covered in TM 10-5410-229-13&P. The MAC for Personnel Heaters is covered in TM 9-2540-205-24&P or TM 9-2540-207-14&P. The maintenance allocation chart for the turntable used in the M1064A3 is in TM 9-1015-232-23.

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
---	M113A3 FOV	PMCS		33.5				4 46 105 106 107 108 109 110	
01 0100	ENGINE POWER TRAIN INSTL	Repair		2.0				28 29 32 42 45	
	POWER PLANT ASSY	Adjust		.2				29 32 61	
		Remove/ Install			3.7			28 31 32 36 45 59	A
		Repair		1.3	.5			26 27 28 31 32 36 44 45 59 62 66	A
	ENGINE	Inspect		.1					
		Service		.3				32	
		Adjust		.1					
		Remove/ Install			.5			28 29 31 32 36 45 59	
		Replace		1.2	6.5			26 32 45 58 59	
		Repair Overhaul		.3			50.0	32 62 66	B
03 0302	FUEL SYSTEM ENGINE FUEL PUMP ASSY	Inspect		.1					
		Replace			.2				
		Repair		.2					
	PERSONNEL & COOLANT HEATER FUEL PUMP	Replace		.6				32	
				.2				32	
0304	AIR CLNR INSTL	Remove/ Install		.2				32	
		Repair		.2				28 29 32 36	
	AIR CLEANER ASSY	Replace		5.6				28 29 32 36	
		Repair		4.3				32	
0306	FUEL SYS INSTL	Service		.8				32	

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
0309	TANK, FUEL, ENG	Repair		.3				29 32	
		Replace		2.7				28 29 32 60	
		Repair			2.4			9 20 26 32	
	PRMRY FUEL FILTER	Service	.1						
		Replace		.1					
		Repair		.1					
0311	SEC FUEL FILTER	Service	.1						
		Replace		.1					
		Repair		.1					
0312	AIR BOX HEATER	Replace		.1					
		Repair		.1					
04	EXHAUST SYSTEM	Adjust		.8				32 44	
		Repair		.7	1.3			23 26 32 62	
0401	EXHAUST SYS INSTL	Repair		.5				28 29 32 36	
		Replace		.7				28 29 32 36	
05	COOLING SYSTEM	Repair		.8				28 29 32 36	
		Service	.3	.1				29 32 47	
0501	RADIATOR INSTL	Repair		.9				28 29 31 32 36 45 59	
		Replace		1.0				16 28 29 32 36	
0504	RADIATOR, ENGINE COOLANT	Repair				4.0		30 33	
		Replace		.6				28 29 32 36	
0504	TANK, AUX RAD	Repair			1.4			30 33	
		Replace		.9				32 35 36 45 59	
0505	DR, VAR FAN, ALT	Replace		1.0				29 32	
		Repair				1.5		26 32	

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
06 0601 0602 0603 0607	FAN AND DR INSTL	Inspect	.1						
		Adjust		.3				29 32	
		Repair		1.6				28 29 32 36	
	FAN ASSEMBLY	Service	.1						
		Replace		4.5				16 28 29 32 36	
		Repair			1.8		4.9	16 26 27 28 29 32 36	
	FAN GEARBOX	Replace			.8			32 26	H
		Repair			2.2				
	FAN SHAFT & BEARING	Replace		1.6				32	
		Repair			.4			32 26	
	ELECTRICAL SYSTEM								
	GENERATOR	Replace		1.0				29 32 62	
		Repair				3.0			
	REGULATOR, GENERATOR	Adjust		.1				29 32 66	
		Replace		1.0				32 62	
	MOTOR, START 24V	Replace		1.2				29 32 62	
	ELECT INSTL	Remove/ Install		.2				32	
Repair			.5	1.0			25 28 29 32 34 62 66		
PANEL ASSY, INSTR	Replace		.7				3 32		
	Repair		1.1				3 32 66		
LAMP ASSEMBLY	Replace		.8				32 66		
	Repair		.4				32 66		
LAMP ASSEMBLY	Replace		1.1				32 66		
	Repair		.5				32 66		
LIGHT, WARNING	Replace		.6				32 66		
	Repair		.4				28 32 66		

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
0608	LIGHT, WARNING	Replace		1.2				32 66	
		Repair		1.1				28 32 66	
	PANEL ASSY, WRG L1	Replace		.1				32	
		Repair		.4	.6			17 26 66	
	LIGHT, WARNING	Replace		.6				32 66	
		Repair		.3				32	
	PANEL, MASTER SW	Replace		.3				32	
		Repair		.7				29 32 66	
	DISTRIB BOX ASSEMBLY	Replace		.8				32	
		Repair		1.7				32 66	
0609	TAIL LIGHT, LEFT	Replace	.3					32	
		Repair		.2				32 66	
	TAIL LIGHT, RIGHT	Replace		.3				32	
		Repair		.2				32 66	
0609	BLKOUT HEADLIGHT	Replace		.5				32 66	
		Repair		.4				32 66	
	BLKOUT HEADLAMP	Replace		.2				32	
		Repair		.6				32 66	
	SERVICE HEADLAMP	Replace		.2				32	
		Repair		.6				32 66	
	LAMP ASSY BLKOUT	Replace		.2				32	
		Repair		.4				32 66	
LIGHT, DOME	Replace		.7				32		

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
0612	BATTERY, STORAGE	Repair		.2				32	
		Service		.1	.4			44 62	O
		Replace		.6				29 32	O
		Repair			2.0			34	O
		Service		.3					
0613	BOX ASSY, BATTERY (M1064A3 LEFT SIDE)	Replace		.3					
		Repair		.2				32 65	C
		Replace		.7				62	
	WIRING HARNESS	Replace		.3				32 66	
		Repair		.9	1.0			25 29 32 34 66	
	WIRING HARNESS	Replace		1.0				28 31 32 36 45 59 66	
		Repair		.8	2.0			15 25 29 32 34 62 66	
	WIR HARN, HEAD L1	Replace		.7				32	
		Repair		.6				28 32 66	
	CABLE, SPEC PURP	Replace		1.5				32 62 66	
		Repair		1.8				28 62 66	
	WIRING HARN BRAN	Replace		1.0				32	
		Repair		.3				28 32	
	WIRING HARNESS	Replace		.5				32 66	
		Repair		.5				28 32 66	
	WIRING HARN, BATT	Replace		1.0				32	
		Repair		.4				28 32 44 62	
	WIRING HARN, FORW	Replace				2.0		32	
Repair			.8	1.0			25 28 32 34 66		

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
0613	WIRING HARN, BRAN	Replace		.7				32 66	
	WIRING HARNESS	Repair		.5				28 32	
		Replace		3.1				29 66	
	WIRING HARNESS	Repair		.6	1.0			25 28 32 65 66	
		Replace		.9				32 66	
	WIRING HARN, TRANS	Replace		.9				32 66	
	WRG HARN SMK GREN	Repair		.9	.6			25 28 32 66	
		Replace		.5				32 66	
	WIRING HARNESS	Repair		.4				28 29 32	
		Replace		.4				32 66	
	WIRING HARNESS	Repair		.5				28 29 32	
		Replace		.9				32	
	WIRING HARNESS, BRAN	Replace		.9				32	
	MOUNTING HOLE, GUN SWITCH TO DISTRIBUTION BOX (M577A3, M1068A3)	Repair		1.1	1.4			15 28 29 32 66	
		Inspect							
	LEAD ASSEMBLY, UTILITY OUTLET (M577A3, M1068A3)	Repair		.2				32 65	C
Replace			.3				32 65	C	
LEAD ASSEMBLY (M577A3, M1068A3)	Repair		.2					C	
	Replace		.3				32 65		
LEAD ASSEMBLY, MASTER SWITCH TO DOME LIGHT (M577A3, M1068A3)	Replace		.3				32 65		
	Repair		.2				32 65	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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
07 0700	LEAD ASSEMBLY, WIRE HARNESS TO DOME LIGHT (M1059A3)	Replace		.3				32 65	
		Repair		.2				32 65	C
	RECEPTACLE, GENERATOR SET (M577A3, M1068A3)	Replace			1.2			26	
		Repair		.3				32 65	
	CABLE ASSY, W6 (M577A3, M1068A3)	Replace		.3	1.2			100	
		Repair		.5				100	
	CABLE ASSY, W7 (M577A3, M1068A3)	Replace		.3	1.2			26	
		Repair		.5				100	
	CABLE ASSY, W27 (M577A3, M1068A3)	Replace		.4	1.2			86 87 88 100	
		Repair		.3				32 65	
	TRANSMISSION MOUNT, TRANSMISSION	Replace		.2				28 31 29 36 45 59	
		Repair			.8			28 31 32 36 45 59	
	TRANSMISSION	Service	.4	.1				32 44	G
		Adjust		.9				14 28 29 32	G
		Replace			1.9			26 32 58 59	
		Repair			67.1			28 31 32 36 44 45 59 66	G
		Overhaul					50.0		

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
0705	CNTRLLR, TRANS, EL	Replace		1.0				3 32 66	
		Repair		.7				32 66	
0708	TOW, START & CONTR	Adjust		.2				32	
		Repair		.4				28 32	
08	TRANSFER & FINAL DRIVE ASSEMBLIES								
0801	FINAL DRIVE	Service	.1						
		Replace		1.6				29 32 42	
		Repair		.5		11.5		4 32	
12	BRAKE ASSEMBLY								
1206	BRAKE INSTL	Inspect		.8				29 32 44	
		Adjust		.4				29 32	
		Repair		.8				2 29 32	
	LEVER ASSY PARKING	Replace		.5				32	
		Repair		.5				32	
13	WHEELS & TRACKS								
1301	SUSPENSION INSTL	Service	.1						
		Adjust	.1						
		Adjust		.7	.3			10 11 12 13 21 22 26 28 29 32 41 46 49 52 54 63 64	

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
1303	ROAD WHEEL SPT	Repair		2.3				29 32 41 49 52 53 54 55 64	
	HUB ASSEMBLY	Replace		2.0				29 32 37 38 52	
		Repair		.1				32	
	ARM SUPPORT	Replace		3.8				10 28 32 52 59	
		Repair		3.8				28 32 52 54 59	
	HUB ASSY	Replace		2.3			32 43	29 32 37 38 52	
		Repair		.1			29 32	32	
	ARM SUPPORT	Replace		3.8				29 32 41 49 52 54 59 64	
		Repair		3.8				28 32 52 54	
	HUB ASSY	Replace		2.0				29 32 37 38 52	
		Repair		.1				32	
	SPT ASSY SPNSN	Repair		1.0				29 32 41 49 52 53 54 55 64	
	SPT ARM SPNSN	Repair		2.2				28 29 32 41 49 52 53 54 55 64	
	TRACK ADJUSTER	Replace		.9				29 32 46	
		Repair				1.1		26 32	
	IDLER ARM ASSY	Replace		1.0				29 32	
		Repair		1.9		1.0		32 37 53	
ARM IDLER	Replace				.3		32		
	Repair				.2		32		
1305	TRACK ASSY LEFT	Remove/ Install	.3	4.7				32 43 48 50	
		Repair		.5				29 32	

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
1311	TRACK ASSY RIGHT	Remove/ Install		4.7				32 43 48 50 51 64	I
	TRACK SHOE	Replace		.6				32 29 48 50 51	I
	ROAD WHEEL	Repair	.3	.2				29 32	
		Replace		.6				29 32 52	
		Repair					.5	29 32 52	
14	STEERING								
1401	STEERING INST	Adjust		1.2				32	
		Repair		1.4				3 29 32 66	
	BRACKET BEARING STE	Service	.1						
		Replace		.5				32	
		Repair			.1			26 32	
	HOUSING, BEARING	Service	.1						
		Replace		.7				29 32	
		Repair			.1			7 8 17 19 26 32	
	15	TOWING ATTACHMENTS							
1503	PINTLE ASSY, TOW	Replace		.2				32	
		Repair		.4				32	
	LOCK ASSY, PINTLE	Replace		.3				32	
		Repair		.5				32	
16	SPRINGS AND SHOCK ABSORBERS								
1604	SHOCK ABSORBER	Replace		.4				29 32 52 54	
		Repair			.5			26 32 56 57	
18	HULL								

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
1801		Repair		.1					
	TRIM VANE INST	Adjust		.2					
	TRIM VANE ASSY	Replace		.1			32		
		Repair		.9			32		
	RELEASE ASSY	Adjust		.1			32		
	POD, REAR TRIM VANE	Replace		.2			32		
		Repair			.7		32		
	POD, FRNT TRIM VANE	Replace		.2			32		
		Repair			.7		32		
	RAMP INST	Remove/ Install		.1			32		
		Repair		.5			32		
	RAMP ASSEMBLY	Adjust		.4					
		Replace					3.5		
		Repair		.1	.4			13 26 28 32 40	
	RAMP WELDMENT	Repair					.1		
	HINGE, RAMP, CENTER	Replace					1.0		
		Repair					.3		
	HINGE, RAMP	Replace					1.0		
		Repair					.3		
	ACCESS DOOR, RAMP	Replace			1.9			32	
	Repair		.2				32		
DOOR, HINGE	Replace			1.7			32		
	Repair			.1			26 32		
HULL SUB-ASSY	Repair		.2	.4			9 20 23 26 28 29 32 36		
COVER, ACCESS, ENG	Replace		.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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
		Repair		1.0				32	
	COVER, ENG COMPAR	Replace			.1				
		Repair		.4				32	
	COVER, ENG COMPAR	Replace		.2					
		Repair		1.0				32	
	HATCH INST DRIVER'S DOORS, INSTL PP	Repair		.3	.5			23 32 33	
		Repair		.3				16 28 29 32	
	GRILLE ASSY	Remove/ Install		3.1				28 29 32 36	
		Replace					2.2		
		Repair					1.0		
	DOOR, PWR PLANT	Replace		.8				16 29 32	
		Repair		.3				32	
	DOOR, PWR P	Repair			1.2			10 13 18 23 26 32 33	
	HATCH, COV CAR INST	Repair		.2				29 32	
	DOOR, HATCH, VEH	Repair		.2				32	
	COVER, HATCH, CARGO	Replace		.7				29 32	
		Repair			2.3			23	
	TRACK SHROUD INST	Repair		.2				32	
	PWR TRAIN MTG PRO	Repair			.4			9 20 26 32	
	AIR CLNR MTG PRO	Repair			.3			26 32	
	TRIM VANE MTG PRO	Repair			.4			8 17 26 32	
	PP DR MTG PROV	Repair			.4			10 11 12 13 21 22 26 32 63	

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
	MNTG HOLE, GUN S	Repair			.4			5 6 9 10 13 18 20 26 32	
	CUPOLA INSTL CMD	Repair		.2				29 32	
	CUPOLA, CMDR'S STA	Replace			1.1			16 26 32	
		Repair		.4	.5			26 28 29 32	
	COVER, CMDR HATCH	Replace		.7				32	
		Repair			.5			23 33	
	RAMP LOCK INSTL	Test		.1				32	
		Adjust		.2				32	
		Repair		.6				28 32	
	HANDLE ASSY, RAMP	Replace		.1				32	
		Repair		.1				32	
	WATER BARRIER INST	Repair		.2				32	
	CURTAIN, WATER BARR	Replace		.3				32	
		Repair			.2			24	
	SPALL LINER INSTL	Repair		.9				29 32 39	
	SMOKE GRENADE LAUN	Repair		.3				32	
	YOKE ASSY, DRIVER	Replace		.1				32	
	AN/VVS-2 DRIVER'S NIGHT VISION MOUNT (ALL EXCEPT M58)	Replace		.9				32	

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
1806	SEATS PLATE INSTL	Repair		.6				29	
	SEAT & BACKREST A	Replace		.6				29	
		Repair		.6				29	
	SEATBACK ASSEMBLY, DRIVER'S	Replace		.1				29	
		Repair		.1				29	
	POST ASSY DRIVER'S	Replace		.6				29	
		Repair		.7				29	
	SEAT ASSY CMDR	Replace		.6				29	
		Repair		1.1				29	
	SEAT BACK CUSHION	Replace		.1				29	
		Repair		.1				29	
	CMDR PLATFORM	Replace		.1				29	
		Repair		.2				29	
	ASSEMBLY, STOWAGE BOX (M1068A3)	Replace		.2					
		Repair		.5				29	
	ASSY, WORKSURFACE (M1068A3)	Replace		.3					
		Repair		.2					
	SEAT, COMMANDER'S (M1068A3)	Replace		.5					
	Repair		1.5						
SEAT, CREW STATION (M1068A3)	Replace		.5				29		
	Repair		1.5				100		

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
1805	FLOOR PLATES	Replace		1.3		3.0		100	
		Repair		.5	.2	3.0		100	
1808	STOWAGE INSTL	Inspect		.5					
		Remove/ Install		.1		.2		29	
		Repair		.3				28 29	
		Replace		.5				32	
	DRIVER'S NIGHT VISION STOWAGE MOUNT	Replace		.9					
	RACK, AMMO (M1064A3)	Replace		.4					
		Repair		.4					
	HOLDER, CABLE REEL (M1064A3)	Replace		.3					
		Repair		1.1					
	2201	SEAT ASSY, GUN PLATF	Replace		1.0				
Repair						3.0			E
CURTAIN, BLACKOUT (M577A3, M1068A3)		Replace		.2		3.0			
		Repair				.2			
2205	BILGE PUMP INSTL PUMP UNIT, CENTRIF	Service		.1				32	
		Replace		.6				28 32 66	

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
24	HYDRAULIC LIFT COMPONENTS								
2401	HYDRAULIC PUMP	Replace		3.9				29 32	
2404	HYD RAMP ACTR INST TANK, RAMP SYSTEM	Replace		1.5				32	
		Replace		.7					
		Repair				1.0			D
2406	ACTR INST HYD RAMP	Repair		.3				32	
2407	CYLINDER, RAMP	Replace		1.3					
2408	TANK, HYDR FLUID	Service		.7				32	
		Replace		.8				32	
		Repair		.9				32	
26	ENGINE & TRANSMISSION								
2604	SLING, ENG & TRANS	Inspect		.1				28 32	
		Test			.8			32	
		Repair		.1	1.7			23 32 33	
	STAND, ENG & TRANS	Service			.1			26	
		Adjust			.2			32	
		Repair			1.3			23 26 32 33	
29	AUXILIARY GENERATOR								
2901	4.2 KW GENERATOR SET (M557A3, M1068A3)	Service	.1	.2				32 65	
		Adjust		.2				32 65	
		Replace		.2				32	
		Repair				3.2		26	
		Overhaul					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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
2901	5.0 AUXILIARY POWER UNIT (M557A3, M1068A3)	Service							
33	SPECIAL PURPOSE KITS								
3301	SHIPPING CONTAINERS, ENGINE	Replace		.2	.2			32	
		Repair		1.5	1.5			32	
3303	HEATER KIT, ENGINE COOLANT	Service		.2				29 32	
		Remove/ Install			10.0			34	
		Repair		.3				28 29 32 36 66	
	COOLANT HEATER	Test			.8			26 34	
		Adjust		.5				29 31 32 36 45 59	
		Remove/ Install		3.3				29 31 32 36 45 59	
		Replace		4.0				29 31 32 36 45 59	
		Repair		.7	.3			25 26 28 29 31 32 34 36 45 59	
	HTR CONTROL BOX	Replace		.5				32	
		Repair		1.9				32 66	
	HTR KIT, INST PERS	Service		.2				32	
		Remove/ Install			8.0			32 34	
		Repair		.8				32 66	
	CONTROL BOX ASSY	Replace			.1			32	
		Repair			.1			32 66	

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
	HEATER, VEHICULAR	Replace		1.0	3.0				
		Repair		1.0	3.0				Q
	DUCT ASSY	Replace		.2				32	
		Repair		.2				32	
	BOX, CONTROL, HEATER	Replace		.2				32	
		Repair		.2				32	
	FILTER, FUEL	Service		.2				32	
		Replace		.3				32	
	HEATER, COOLANT	Replace		.4				32	
		Repair			1.2			32 26	
	HEATER, PERSONNEL (ALL CARRIERS)	Replace		.3				32	
		Repair							Q
	PUMP, FUEL, HEATERS	Service		.1				32	
		Replace		.2				32	
	HEATER CONTROL BOX	Replace		.5				32	
		Repair		1.9				32 66	
	FUEL SUPPLY ADAPTER KIT (M577A3, M1068A3)	Repair			.5			32	
		Replace			.6			32	
	PERSONNEL HEATER KIT (ALL CARRIERS EXCEPT M577A3)	Remove/ Install			10.0			32 26	
		Repair			10.6			32 26	
		Replace							

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
3307	DRIVER'S WINDSH	Remove/ Install	.1	.2				32	
		Repair		.1				32	
	LITTER KIT	Inspect	.1						
		Remove/ Install		.3				32	
	SPT POST LITTER	Replace		.5				32	
		Repair		.5				32	
	CHAIN ASSY LIT C	Replace		.1				32	
		Repair		.5				32	
	SHCK MTG INST, CBR	Repair		.7				32	
	MACHINE GUN SHLD	Remove/ Install			10.0			26 32	
		Repair		.6				32	
	BRACKET, DOOR	Replace		.1				32	
		Repair		.1				32	
	SOCKET ASSY, PINTLE	Replace		.1				32	
	PLATFORM ASSY GUN M	Replace		.1				32	
		Repair		.5				32	
	ANCHOR KIT (M1059A3)	Remove/ Install			1.0			26 32	
		Replace			.6			32	
		Repair		.2				32	
	APU COVER (M577A3, M1068A3)	Replace		.1					
	Repair			.5					
ADAPTER ASSEMBLY (M577A3, M1068A3)	Replace		.1						
	Repair		.1						

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
	ARTILLERY COMMUNICATION KIT (M577A3, M1068A3)	Remove/ Install			6.0			26 32	
		Repair			1.2			26 32	
		Replace			.9			32	
	BRACKET, DOOR	Replace		.1				32	
		Repair		.1				32	
	CAPSTAN KIT (M1059A3)	Remove/ Install			3.0				
		Repair		.3					
		Replace							
	HEATER KIT, ENGINE COOLANT	Service		.2				29 32	
		Remove/ Install			10.0			34	
		Repair		.3				28 29 32 36 66	
	MACHINE GUN SHIELD KIT (M113A3)	Remove/ Install			10.0			26 32	
		Repair		.6				32	
	MOUNTING ARM ASSY	Replace		.1				32	
		Repair		.4	.9			26 32	
	NON-SKID RAMP KIT (M1064A3)	Remove/ Install			4.0				
		Repair			1.3				
	SMOKE GENERATOR ASSEMBLY (M1059A3)	Replace Service	*						M
		Replace		.5					
		Repair		*				*	

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
	SUPPORT ASSEMBLY, SMOKE GENERATOR (M1059A3)	Replace		1.0				32	
		Repair		.5				32	
	SUPPORT POST LITTER	Replace		.5				32	
		Repair		.5				32	
	ADAPTER, FUEL TANK (M1059A3)	Service	.1						
		Replace		.2				32	
		Repair		.5				32	
	PANEL ASSY, OPERATOR'S (M1059A3)	Replace		.5				32	M
		Repair		*				32	N
	FOG OIL TANK MODULE (M1059A3)	Replace		1.0				32	M
		Repair		.5				32	N
	CABLE ASSEMBLY, OPERATOR'S PANEL, MAIN POWER (M1059A3)	Replace		.2				32	C
		Repair		.5				32	
	CABLE ASSEMBLY, PANEL TO COMPRESSOR (M1059A3)	Replace		.2				32	C
		Repair		.5				32	
	CABLE ASSEMBLY, PANEL TO PUMP PANEL TO ACCESS PLATE (M1059A3)	Replace		.3				32	D
		Repair			.5			26 32	
		Repair			.5			26 32	

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
42 4202	CABLE ASSEMBLY, SMOKE GENERATOR TO ACCESS PLATE (M1059A3)	Replace		.5				32	D
		Repair			.5			26 32	
	PUMP ASSEMBLY, FOG OIL (M1059A3)	Replace		.8				32	M
		Repair		*				32	N
	AIR COMPRESSOR ASSEMBLY (M1059A3) 1 3404	Replace		.5			*	32	M
	TELESCOPE, PANORAMIC	Replace		1.5					
		Repair							
	ELECTRICAL EQUIPMENT								
	CABLE ASSY, AC POWER EXT (W7, W8) (M1068A3)	Replace		.4				69	
		Repair			.3			70	
	CABLE ASSY (W4) (M1068A3)	Replace		.3				69	
		Repair		.3				70	
	POWER DISTRIBUTION ASSY (A3) (M1068A3)	Replace		.1				32	
		Repair		.3				32 69	
	INVERTER (IN1, IN2) (M1068A3)	Replace			.6			32	
CABLE ASSY, INVERTER (W5) (M1068A3)	Replace		.4				32		
	Repair		.3				69		
CABLE ASSY (W6) (M1068A3)	Replace		.2				32		
	Repair		.2				69		

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
47	HOUSING ASSY, INVERTER (A2) (M1068A3)	Replace			.6			26 32	
		Repair			.1			26 32	
	CABLE ASSY, DC POWER EXT (W9, W10) (M1068A3)	Replace		.4				32	
		Repair			.3			69 70	
	CABLE ASSY, AC LIGHT CORD (W11) (M1068A3)	Replace		.4				32	
		Repair			.3			70	
	CABLE ASSY (W3) (M1068A3)	Replace		.4				32	
		Repair			.3			70	
	CABLE ASSY, SINGLE POINT LAN (W40) (M1068A3)	Replace		.1				32	
		Repair		.2				70	
	CABLE ASSY, DC INPUT (W42) (M1068A3)	Replace		.4				32	
		Repair			.3			70	
	CABLE ASSY, AC INPUT (W43) (M1068A3)	Replace		.4				32	
		Repair			.3			70	
	CABLE ASSY (W32) (M1068A3)	Replace		.6				32	
Repair				.5			70		
BOX ASSY, EXT, COMM (ALL) (M1068A3)	Replace		.3				69		
	Repair			1.1			70		
	GAUGES (NON-ELECTRICAL)								

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	
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT			DEPOT
			C	0	F	H			D
4701	SPDOM TACH CABLE	Repair		1.2				32	
	TACHOMETER CABLE	Service		.3				32	
		Replace		1.2				32	
		Repair		.7				32	
	SPEEDOMETER CABLE	Service		.3				32	
		Replace			.5			32	
		Repair		.7				32	
	SHAFT, ASSEMBLY FLEXIBLE SPEEDOMETER OR TACHOMETER	Replace		.5					
		Repair		.2					
	67	STE-ICE							
6715	STE-ICE INSTALL	Repair		1.5				32 62	
		Repair							
	ANTENNA, RADIO	Replace		.1				100	
	CONT INTERCOM SET	Replace		.1				61	
	AMP AUDIO FREQ	Replace		.1				61	
		Repair						65 66 75 76 77 79 96 61 62 104	
	JUNCTION BOX ASSY	Replace		.1				62	
		Repair							
	RADIO SET AN/VRC 46	Replace		.1					
	RADIO AN/GRC-160	Replace		.1					
DISTRIB BOX STE-ICE	Replace		.6				32 62		
	Repair			1.1			32 34		

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
	WIRING HARN CREW	Replace		2.3				29 32 62	
		Repair		.6				29 32 62	
76	WIRING HARN STE-ICE	Replace		5.0				28 31 32 36 45 59 62	
		Repair		1.1	1.0			25 26 29 32 34 62	
7603	FIXED FIRE EXTINGUISHER SYSTEM	Adjust		.2					
7638	CONTROLS, FIXED FIRE EXTINGUISHER CYLINDER	Replace		.4					
		Repair		.5					
		Service			.4				
		Replace		.2					
		Test		.2					
7639	PORTABLE FIRE EXTINGUISHER (M1059A3)	Inspect	.1						
91	EXT INSTL FXD FIRE	Service			.5				
		Replace		.1				28 32	
9111	CYLNDR, COMPRESS G	Repair		.2				26 32	
		Service			.1			32	
		Replace		.1				28 32	
9111	CHEMICAL BIOLOGICAL AND RADIOLOGICAL (CBR) EQUIPMENT	Replace			.2			100	
		Repair			.2			86 100 102	

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
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	0	F	H	D		
9116	NBC MOUNTING KIT	Remove/ Install		3.0					
		Replace			1.2				
	SHOCK MTG INSTL. CRB	Repair		.7				32	
9131	CHEM AGENT AUTO	Remove/ Install		1.8				4 29 32	S
	CHEMICAL ALARM KIT	Remove/ Install							
		Replace							
		Repair							
	DISTRIB BOX	Replace		.2				28 32	
		Repair		.3				28 32	
	RPR PAD, BTRY BRK	Repair		.1				4 28 32	

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0925 00

Table 2. TOOLS AND TEST EQUIPMENT REQUIREMENTS, SECTION III

EQUIPMENT REF CODE	MAINTENANCE LEVEL	NOMENCLATURE	NATIONAL STOCK NUMBER	TOOL NUMBER
1	F	SOCKET, SOCKET WRENCH	5120-00-261-2818	YA-396
2	O	CROWFOOT ATTACHMENT	5120-00-184-8397	AN8506-3
3	O	PLIERS, ELEC CON	5120-00-624-8065	AT508K
4	O	WRENCH, TORQUE	5120-00-542-5681	B58
5	F	WRENCH, SPANNER	5120-01-263-3623	CRB2112D
6	F	WRENCH, INSERT	5120-01-250-6420	CRB2112WIS
7	F	INSERTER, SCREW THREAD	5120-01-163-1425	CR06W
8	F	INSERTER, SCREW THREAD	5340-01-153-1860	CR08W
9	F	INSERTER, SCREW THREAD	5120-01-163-9922	CR10W
10	O F	INSERTER, SCREW THREAD	5120-01-159-6487	CR12W
11	F	INSERTER, SCREW THREAD	5120-01-254-1497	CR13W
12	F	DRILL, TWIST	5133-00-228-1351	GGG-D-751
13	F	DRILL, TWIST	5133-00-277-6942	GGGD751
14	O	ADJ, STEER CENTERING	2530-01-249-6439	J35223
15	O F	CRIMPING TOOL TERMINAL	5120-00-432-7836	MY28
16	O F	SLING, ENDLESS	3940-00-675-5003	PD101-96
17	F	INSERTER, BEARING AN	5120-00-708-2641	R108D
18	F	DRIVE TOOL, LOCKRING	5120-01-165-0488	R112D
19	F	INSERTER, BEARING AN	5120-00-473-7014	R206D
20	F	INSERTER, BEARING	5120-00-473-7017	R210D
21	F	INSERTER, BEARING AN	5120-00-378-4276	R212D
22	F	INSERTER, BEARING AN	5120-01-249-6363	R213D
23	F	WELDING SHOP, TLRMTD	- - - -	SC3431-95-CL-A01
24	F D	SHOP EQUIP, MACH BSC	3470-00-754-0708	SC3470-95-CL-A02
25	F H	SHOP EQUIP, F/E BSC	4940-00-754-0714	SC4910-95-CL-A01
26	O	TOOL KIT, AUTO MAINT	4910-00-754-0705	SC4910-95-CL-A31
27	F	SHOP EQUIP, SUPPL #1	4910-00-754-0706	SC4910-95-CL-A62
28	O F D	SHOP EQUIP, COM #2	4910-00-754-0650	SC4910-95-CL-A72

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0925 00

EQUIPMENT REF CODE	MAINTENANCE LEVEL	NOMENCLATURE	NATIONAL STOCK NUMBER	TOOL NUMBER
29	O F	SHOP EQUIP, COM #1	4910-00-754-0654	SC4910-95-CL-A74
30	F H	SHOP EQUIP RDTR T/R	4910-00-071-0747	SC4910-95-CL-A76
31	O	TOOL SET, SUPPL #2	4940-00-754-0743	SC 4940-95-CL-A08
32	O F H	TOOL KIT, GEN MECH	5180-00-177-7033	SC5180-90-CL-N26
33	F	TOOL KIT, BODY & FEN	5180-00-754-0643	SC5180-90-CL-N34
34	F H	TOOL KIT, AUTO F/E	- - - -	SC5180-95-CL-B08
35	O	TESTING KIT, RAD	4910-00-728-8227	ST255
36	O F	CAULKING GUN	5120-00-679-5655	101
37	O	SPACER, RING	5365-00-004-0763	10863001
38	O	REPLACER, GREASE CAP	5120-00-678-2796	10863002
39	O	ADAPTER, TORQUE WRENCH	5120-00-977-7421	10917666
40	F	TOOL KIT, THREAD INS	5180-00-966-5961	10932474
41	O	SOCKET WRENCH ATTACH	5120-00-053-3625	10932504
42	O	BAR, LIFTING FINAL DRIVE	5120-00-918-0586	11589384
43	O	ADAPTER	5120-00-933-8458	11592843
44	O	GAUGE, OIL TESTER	6695-01-242-6795	11650182
45	O F	ADAPTER, TORQUE WRENCH	5120-00-213-6976	11663358-1
46	O	ADAPTER, TORQUE WRENCH	5120-00-215-8200	11663358-2
47	O	CLEANING POOL, RADIATOR	4910-00-611-6559	11678393
48	O	PUNCH, DRIVE PIN	5120-01-006-8847	11678718
49	O	ADAPTER, TORSION BAR	5120-01-017-5328	12251805
50	O	FIXTURE, TRACK CONNE	5120-01-041-4624	12253183
51	O	GAUGE	5120-01-041-9920	12253280
52	O	LIFTER, ROADWHEEL	5120-01-062-5607	12268612
53	O	REPLACE, IDLER BAR	5120-01-102-4627	12269371
54	O	REMOVAL TOOL, SHOCK	5120-01-102-4628	12269380
55	O	REMOVER AND REPLACE	4910-01-128-0092	12269522
56	F	POSITIONER, BEARING	4910-01-128-0093	12313101
57	F	STAKER, BEARING	4910-01-128-0094	12313102

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0925 00

EQUIPMENT REF CODE	MAINTENANCE LEVEL	NOMENCLATURE	NATIONAL STOCK NUMBER	TOOL NUMBER
58	F	STAND, ENGINE AND TRANS	4910-01-239-6836	12349616
59	O F	SLING, ENGINE AND TRANS	1450-01-240-2206	12350306
60	O	BRACKET, ANGLE, LIFTING	5340-01-264-5991	12354718
61	O	TENSIONMETER, V-BELT	6635-00-921-6255	12998F
62	O	TEST SET, STE/ICE	4910-01-222-6589	12259266
63	F	SOCKET, TAPER SHANK	3460-00-227-7520	51132TY3CL1 SIZE5
64	O	PULLER, MECHANICAL	5120-00-557-3615	5573615
65	O	MULTIMETER	6625-01-139-2512	T00377
66	O F	MULTIMETER	6625-01-265-6000	27/FMW/ACCE
67	H	ADAPTER, NEEDLE VALVE	4910-00-764-5626	A-A-1395
68	O	TESTER, AIR FLOW, GAS FILTER	6680-00-436-4212	E5-77-2120
69	O F D	TOOL KIT, RADIO EQUIPMENT	5180-00-064-5178	TK-101/G
70	O F D	TOOL KIT, ELECTRONIC EQUIPMENT	5180-00-610-8177	TK-105/G
71	F	REMOVAL TOOL	5120-01-116-6114	DRK83-16
72	F	REMOVAL TOOL	5120-01-116-6116	DRK83-16
73	D	ACCEPT TEST PROC	----	D13606
74	D	POWER AMP OR EQUIV	6625-00-427-9020	ELGAR251
75	D	TEST FIXTURE	----	ETF1230227- 1TD
76	D	FUNCT GEN OR EQUIV	6625-00-028-4989	HP-3312A
77	D	PWR SUPPLY 0/40VDCIV	6130-00-463-4638	HP-6200B
78	D	AUDIO ANALYZER	----	HP8903
79	D	DIGITAL VOM OR EQ	----	KIETHLEY 177
80	D	PURGING KIT	4931-00-065-1110	SC931-95-CL- J54
81	C	LINE, TELEPHONE	5805-00-543-0012	SMD-283351
82	C	LINE, FIELD	----	TA312
83	F D	PLATE, ALIGNMENT, ITA	4931-00-075-2738	12277609
84	F D	ALIGN, FIX. SUPPORT	5120-01-075-2738	12277610
85	O F D	KIT, TURRET REMOVAL	4910-01-086-6796	12277677
86	F D	TOOL KIT, CABLE RPR	2590-01-205-5998	12311803
87	O F D	TEST SET, CONT BOX	2590-01-205-6000	12311806

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0925 00

EQUIPMENT REF CODE	MAINTENANCE LEVEL	NOMENCLATURE	NATIONAL STOCK NUMBER	TOOL NUMBER
88	F D	TOOL KIT, CABLE RPR	2590-01-139-9673	12311946
89	F	SOLDER/DESOLDER SET	3439-00-460-7198	W-TOP-K
90	F	HOIST, CHAIN, HAND	3950-00-223-7065	11640383
91	F D	HOIST, CHAIN, 6000 LB.	3950-00-292-2881	MILH904
92	O F	CHARGING DEVICE	4933-01-046-7109	12252157
93	O	TOOL KIT AUTO MAINT.	4910-00-919-0082	- - - -
94	F H	TELESCOPE, ELBOW	- - - -	7799773
95	D	SHOP EQUIP, INSTR.	4931-00-754-0740	- - - -
96	O C F	TOOL KIT INST+FC	4931-00-947-8243	- - - -
97	F	SHOP EQPT. ELEC RPR	4940-00-294-9542	- - - -
98	O	COMPRESSOR, RIVET	5120-00-357-6065	- - - -
99	O D	TOOL KIT, GUIDED MSL.	5180-00-179-3594	- - - -
100	C O F H D	TOOL KIT, TURR. MECH.	5180-00-357-7727	- - - -
101	D	VOLTMETER, DIGITAL	6625-00-022-7894	- - - -
102	O F D	MULTIMETER	6625-00-553-0142	- - - -
103	O F	PWR SOURCE 24VDC	6625-00-823-5359	- - - -
104	H D	STATIC CONT. WK STA.	- - - -	725344-1
105	O	WRENCH SET, SOCKET 1/2 DR.	5120-00-596-8622	B107.1CL1STB
106	O	WRENCH SET, SOCKET 3/8 DR.	5120-00-322-6231	51200017510
107	O	WRENCH, TORQUE, 3/8 DR. 0-150 LB-IN	5120-00-230-6380	TE-12A
108	O	WRENCH, TORQUE, 3/8 DR. 0-200 LB-IN	5120-00-853-4538	F200-1
109	O	WRENCH, TORQUE, 3/8 DR. 15-75 LB-IN	5120-00-554-7292	GG-W-00686
110	O	WRENCH, TORQUE, 1/2 DR. 0-175 LB-IN	5120-00-640-6364	1753LDF

Table 3. REMARKS, SECTION IV

REFERENCE 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 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 9-2920-225-34P
G.	COMPLETE REPAIR IS AUTHORIZED AT GENERAL SUPPORT 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 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.	THE ASSEMBLY IS NOT AUTHORIZED AS A REPAIR PART.
M.	SEE TM 3-1040-279-12&P FOR CREW SERVICES, UNIT REPAIR, AND MAINTENANCE ALLOCATION CHART (MAC).
N.	SEE TM 3-1040-279-12&P FOR REPAIR PARTS.
O.	SEE TM 9-6140-200-14 FOR CREW AND UNIT SERVICES.
P.	PART OF POWER ENTRY BOX (A4).
Q.	SEE TM 9-2450-205-24&P FOR MAC, MAINTENANCE TASKS, AND REPAIR PARTS.
R.	SEE TM 9-2450-207-14&P AND TM 9-4240-276-30&P FOR MAINTENANCE TASKS AND REPAIR PARTS.
S.	SEE TM 3-6665-255-12 FOR MAC AND MAINTENANCE TASKS AT CREW AND UNIT LEVEL.
T.	SEE TM 9-6115-664-13&P FOR UNIT REPAIR, DIRECT SUPPORT REPAIR AND MAINTENANCE ALLOCATION CHART (MAC).

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.

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, 1/2 TO 3/4 DRIVE	5120-00-227-8088	A-A-2172	SC 4910-95-CL-A72
2	ADAPTER, SOCKET, 1/2 TO 3/8 DRIVE	5120-00-240-8703	A-A-2172	TM 9-2350-277-24P
3	ADAPTER, TORQUE WRENCH	5120-00-213-6976	11663358-1	TM 9-2350-277-24P
4	ADAPTER, TORQUE WRENCH	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	TM 9-2350-277-24P
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
8	BAR, LIFTING, FINAL DRIVE	5120-00-918-0586	11589384	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
8.1	TESTER, ANTIFREEZE AND BATTERY	6630-00-105-1418	7584L	SC 4910-95-CL-A74
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-CL-A74
11	BUSHING, PIPE, 1/4 EXT TO 1/8 INT	4730-00-277-9386	- - - -	SC 4910-95-CL-A74
12	CAN, RADIATOR FILLING, 12 QT	7240-00-499-8028	MIL-C-43522	TM 9-2350-277-24P
13	CLEANING TOOL, RADIATOR	4910-00-611-6559	11678393	TM 9-2350-277-24P
14	CROWFOOT ATTACHMENT, SOCKET	5120-00-181-6747	AN8508-32A	TM 9-2350-277-24P
15	CROWFOOT ATTACHMENT, SOCKET	5120-00-184-8397	FC18	TM 9-2350-277-24PT
16	CROWFOOT ATTACHMENT, SOCKET	5120-00-229-2772	TF-32	SC 4910-95-CL-A74
17	DISPENSER, SEALANT (CALMING GUN)	5120-00-679-5655	101	TM 9-2350-277-24P
18	DRILL SET	5133-00-293-0983	DB129B	SC 4910-95-CL-A74
19	DRILL, PORTABLE, ELECTRIC, 1/4 INCH	5130-00-889-8994	- - - -	SC 4910-95-CL-A72
20	DRILL, PORTABLE, ELECTRIC, 1/2 INCH	5130-00-293-1849	- - - -	SC 4910-95-CL-A74
21	FITTING KIT, TUBE-PIPE	4730-00-470-6625	51025	SC 4910-95-CL-A74
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-CL-A74
24	GAUGE, TRACK AND SPROCKET	5120-01-041-9920	12253280	TM 9-2350-277-24P
25	HEATER, GUN TYPE, ELECTRIC	4940-00-561-1002	500A	SC 4910-95-CL-A72
26	HOSE ASSEMBLY	4720-00-454-8608	11633323	TM 9-2350-277-24P
27	JACK, HYDRAULIC, HAND, 12-TON CAPACITY	5120-00-224-7330	- - - -	SC 4910-95-CL-A74
28	LIFTER, ROADWHEEL (T130)	5120-01-062-5607	12268612	TM 9-2350-277-24P
28A	LIFTER ASSEMBLY, ROADWHEEL (T150)	5120-01-496-3694	12474852	TM 9-2350-277-24P
29	LUBRICATING GUN, HAND	4930-00-253-2478	1142	SC 4910-95-CL-A74
30	MULTIMETER, DIGITAL	6625-01-139-2512	T00377	SC 4910-95-CL-A74
31	PLIERS, ELECTRICAL CONNECTOR	5120-00-624-8065	AT508K	TM 9-2350-277-24P
32	PLIERS SET, RETAINING RING	5120-00-789-0492	4440R	SC 4910-95-CL-A74
33	PLUG, PIPE, 1/8 INCH	4730-00-011-3175	- - - -	SC 4910-95-CL-A74
34	PRESS, LEAD SEAL, HAND	5120-00-224-7592	- - - -	SC 4910-95-CL-A31
35	PRESSURE GAUGE KIT	6695-01-242-6795	11650182	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
36	PROTRACTOR, MECHANIC'S, BEVEL	6675-00-777-4529	TB107A	TM 9-2350-277-24P
37	PULLER, BATTERY TERMINAL	5120-00-944-4268	21	SC 4910-95-CL-A74
38	PULLER, MECHANICAL	5120-00-595-9305	GGGP781	SC 4910-95-CL-A74
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	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	5120-00-017-2849	250K	SC 4910-95-CL-A74
45	SCREW, CAP, SOCKET HEAD	5305-00-983-7456	MS16998-97	TM 9-2350-277-24P
46	SCREWDRIVER SET, CROSS-TIP	5130-01-115-6873	SDDZ50	SC 4910-95-CL-A74
47	SLING (ENDLESS)	3940-00-675-5003	PD101-96	TM 9-2350-277-24P
48	SLING, POWER PLANT	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-CL-A74
51	SOCKET, UNIVERSAL, 3/8 DRIVE, 9/16 INCH, 12-PT	5120-00-237-0978	- - - -	SC 4910-95-CL-A74
52	SOCKET WRENCH ATTACHMENT, 3/8 DRIVE, 5/16 HEX	5120-00-243-1674	- - - -	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	3439-00-618-6623	D550-3	SC 4910-95-CL-A72
55	SOLDERING TORCH KIT	3439-00-542-0531	JT25	SC 4910-95-CL-A74
56	SPACER, RING	5365-00-004-0763	10863001	TM 9-2350-277-24P
57	STAND, ENGINE AND TR	4910-01-239-6836	12349616	TM 9-2350-277-24P
58	TAPE, MEASURING	5120-00-554-7085	- - - -	TM 9-2350-277-24P
59	TENSIOMETER, V-BELT	6635-00-921-6255	12998F	TM 9-2350-277-24P
60	TEST KIT, RADIATOR	4910-00-728-8227	ST255A	TM 9-2350-277-24P
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	- - - -	SC 5180-90-CL-N34

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
64	TOOL KIT, ELECTRICAL	5180-00-876-9336	7550526	SC 4910-95-CL-A74
65	TOOL KIT, GENERAL MECHANIC'S	5180-00-177-7033	- - - -	SC 5180-90-CL-N26
66	TOOL KIT, RADIO EQUIPMENT	5180-00-064-5178	TK-101/G	SC 5180-91-CL-R13
67	TOOL, SHOCK ABSORBER	5120-01-102-4628	12269380	TM 9-2350-277-24P
67A	TOOL, TRACK PIN ALIGNMENT	TBD	12474881	TM 9-2350-277-24P
68	WISE, MACHINIST'S	5120-00-293-1439	504M2	SC 4910-95-CL-A74
69	WELDING SHOP, TRAILER MOUNTED	3431-01-090-1231	11022000	SC 3431-95-CL-A04
70	WRENCH SET, SOCKET, 1/4 DRIVE	5120-00-081-2305	- - - -	SC 4910-95-CL-A74
71	WRENCH SET, SOCKET, 1/2 DRIVE	5120-00-596-8622	B107.1 CL1STB	SC 4910-95-CL-A74
72	WRENCH SET, SOCKET, 3/8 DRIVE	5120-00-322-6231	- - - -	SC 4910-95-CL-A74
73	WRENCH SET, SOCKET, 3/4 DRIVE	5120-00-204-1999	- - - -	SC 4910-95-CL-A72
74	WRENCH, ADJUSTABLE, 1-5/16 INCH	5120-00-264-3796	MPA339	SC 4910-95-CL-A74
75	WRENCH, ADJUSTABLE, 3-5/8 INCH	5120-00-264-3793	WA615	SC 4910-95-CL-A72
76	WRENCH, OIL FILTER	5120-01-197-6720	YA342A	TM 9-2350-277-24P
77	WRENCH, PIPE, 2 INCH	5120-00-277-1461	MPA345	SC 4910-95-CL-A72
78	WRENCH, TORQUE, 1/4 DRIVE, 0-75 LB-IN	5120-01-112-9532	TQSC6A	SC 4910-95-CL-A74
79	WRENCH, TORQUE, 3/8 DRIVE, 0-150 LB-IN	5120-00-230-6380	TE-12A	TM 9-2350-277-24P
80	WRENCH, TORQUE, 3/8 DRIVE, 0-200 LB-IN	5120-00-853-4538	F200-1	SC 4910-95-CL-A72
81	WRENCH, TORQUE, 3/8 DRIVE, 0-600 LB-IN	5120-00-542-5681	B58	TM 9-2350-277-24P
82	WRENCH, TORQUE, 3/8 DRIVE, 15-75 LB-FT	5120-00-554-7292	GG-W-00686	SC 4910-95-CL-A74
83	WRENCH, TORQUE, 1/2 DRIVE, 0-300 LB-IN	5120-00-247-2536	F3001	TM 9-2350-277-24P
84	WRENCH, TORQUE, 1/2 DRIVE, 0-150 LB-FT	5120-00-247-2540	F150	TM 9-2350-277-24P
85	WRENCH, TORQUE, 1/2 DRIVE, 0-175 LB-FT	5120-00-640-6364	1753LDF	SC 4910-95-CL-A72
86	WRENCH, TORQUE, 3/4 DRIVE, 0-600 LB-FT	5120-00-221-7983	TE602A	SC 4910-95-CL-A72

**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
87	YARDSTICK (ALUMINUM)	5210-00-985-6610	GGG-Y-0035 TY2	TM 9-2350-277-24P
88	YARDSTICK (WOOD)	5210-00-243-3349	GGG-Y-0035 TY1	TM 9-2350-277-24P

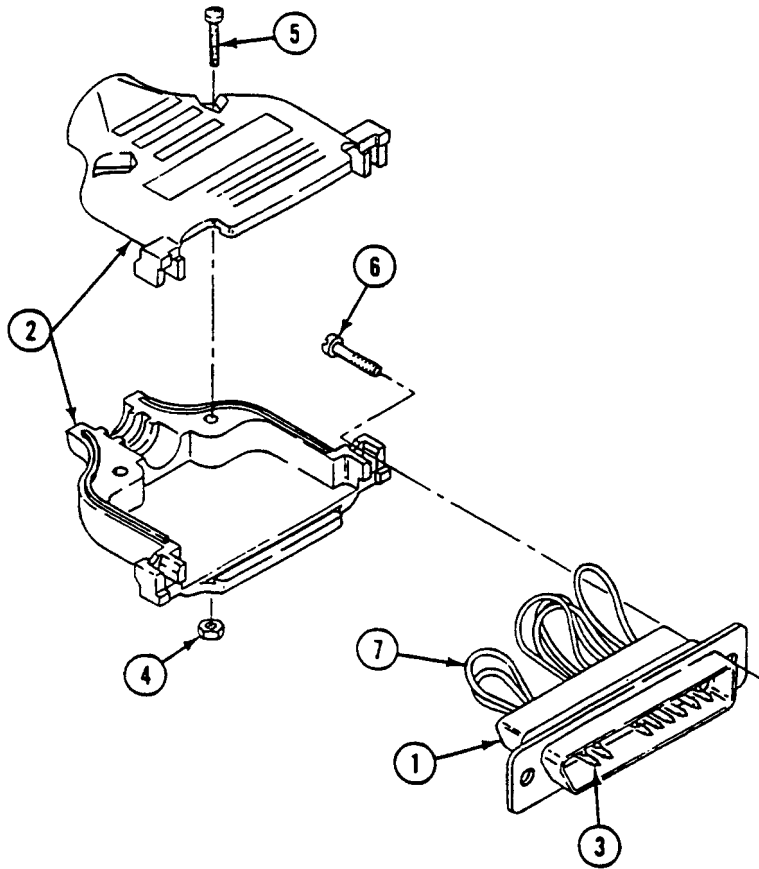
FABRICATED TOOLS

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)

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 CTAá50-970, *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, CAGE, 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
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,CAGE,PART NUMBER	(5) U/M
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
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 (CHEESE CLOTH) (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
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

EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST—Continued

0928 00

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) ITEM NAME,DESCRIPTION,CAGE,PART NUMBER	(5) U/M
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
36	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
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
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

EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST—Continued

0928 00

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) ITEM NAME,DESCRIPTION,CAGE,PART NUMBER	(5) U/M
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
57	O	8030-00-900-2373	SEALING COMPOUND PRIMER (05972) 764-55	OZ
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
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

EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST—Continued

0928 00

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) ITEM NAME,DESCRIPTION,CAGE,PART NUMBER	(5) U/M
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

INDEX

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
5.0 KW Auxiliary Power Unit M577A3 and M1068A3 Replacement.....	0675 00-1
A	
A.C. Power Extension Box A7 (M1068A3) Replace.....	0815 00-1
A1 Power Control Enclosure Assembly M1068A3 Replacement.....	0826 00-1
A4 Power Entry Box Assembly M1068A3 Replacement.....	0832 00-1
AC Cable Assembly W252 M1068A3 Replacement.....	0857 00-1
AC Light Cable (W11) M1068A3 Replacement.....	0845 00-1
AC Power Extension Box A19 M1068A3 Replacement.....	0822 00-1
AC Power Extension Box A6 M1068A3 Replacement.....	0834 00-1
AC Power Extension Box A6 and DC Power Extension Box A9 and Mount M1068A3 Replacement.....	0834 00-1
AC Power Extension Cable (W7) M1068A3 Replacement.....	0842 00-1
AC Power Extension Cable (W8) (M1068A3) Replace.....	0843 00-1
Accelerator Linkage Adjust.....	0214 00-1
Accelerator Pedal Lower Replacement.....	0215 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Accelerator Pedal Assembly	
Upper	
Replacement.....	0216 00-1
Access cover	
Battery box	
M577A3 and M1068A3	
Repair.....	0352 00-1
Fan drive pulley	
Removal/installation.....	0440 00-1
Hull front	
Replacement.....	0449 00-1
Power plant bottom	
Replacement.....	0450 00-1
Access Covers	
Fuel Tank	
M577A3 and M1068A3	
Replacement.....	0188 00-1
Access covers	
Fuel tank	
All except M577A3 and M1068A3	
Replacement.....	0187 00-1
Access door	
Radiator	
Replacement.....	0469 00-1
Turbine	
M58	
Replacement.....	0485 00-1
Access door gasket	
Turbine	
M58	
Replacement.....	0486 00-1
Access door hinges	
Turbine	
M58	
Replacement.....	0487 00-1
Access panel	
Driver's power plant	
Replacement.....	0441 00-1
Access Plate	
Adapter	
Smoke Generator (M1059A3)	
Replace.....	0766 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Adapter	
Speedometer	
Replace.....	0860 00-1
Tachometer	
Replace.....	0863 00-1
Adjuster	
Track tension	
Replacement.....	0419 00-1
Admittance buzzer and switch	
M577A3 and M1068A3	
Replacement.....	0334 00-1
Air Box Heater	
IgnitionWire	
Replacement.....	0204 00-1
Wiring Harness	
Replacement.....	0205 00-1
Air Box Heater Lower Fuel Line	
Replacement.....	0206 00-1
Air Box Ignition Coil	
Replacement.....	0208 00-1
Air box pressure transducer	
Replacement.....	0327 00-1
Air Cleaner	
Elbow	
Replacement.....	0168 00-1
Filter Element	
Service.....	0167 00-1
Replacement.....	0168 00-1
Air cleaner	
Restriction indicator	
Replace.....	0171 00-1
Restriction indicator hose	
Replace.....	0172 00-1
Air Cleaner Assembly	
Replace	0169 00-1
Air Cleaner Retainer	
Repair	0170 00-1
Air Compressor	
Electrical Cable Assembly	
M1059A3	
Replacement.....	0758 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Air Compressor Assembly (M1059A3 Only)	
Replace.....	0762 00-1
Air Hose	
Adapter Access Plate to Cover Assembly Smoke Generator (M1059A3)	
Replace.....	0768 00-1
Compressor Reservoir to Access Plate Smoke Generator (M1059A3)	
Replace.....	0767 00-1
Air intake	
Elbow	
Replace.....	0173 00-1
Air Intake and Exhaust Pipes	
Heater	
Replacement.....	0683 00-1
Air Intake elbow and hose	
Grill	
Replace.....	0174 00-1
Air Intake Pipes, Heater	
All Except M1064A3	
Replacement.....	0682 00-1
Air Purifier and Frame	
NBC	
M58	
Replacement.....	0914 00-1
Air purifier and frame	
M13	
M1068A3 only	
Replace.....	0779 00-1
Air Separator	
Coolant	
Replacement.....	0236 00-1
Air ventilator	
Rear compartment	
Replacement.....	0454 00-1
Alarm Kit, Automatic	
Chemical Agent	
M113A3	
Installation/Removal.....	0918 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Ammunition Rack	
Horizontal	
M1064A3	
Replacement.....	0606 00-1
Ammunition rack	
Horizontal	
M1064A3	
Repair.....	0607 00-1
Vertical	
M1064A3	
Replacement.....	0608 00-1
Amplifier	
Intercom	
M58	
Replace.....	0888 00-1
AN/VAS-5 Driver's Night Vision Enhancer Sensor Set Assembly Adapter (DVE)	
M58	
Replacement.....	0866 05-1
AN/VAS-5 Driver's Vision Enhancer Stowage Bracket	
M58	
Replacement.....	0866 03-1
AN/VVS-2	
Driver's Night Vision Stowage	
All Except M58	
Replacement.....	0572 00-1
AN/VVS-2 driver's night vision guard	
Driver's Hatch	
All Except M58	
Replacement.....	0536 00-1
(AN/VVS-2) Driver's night vision mount	
All Except M58	
Replacement.....	0537 00-1
Anchor	
Torsion bar	
Replacement.....	0414 00-1
Antenna	
AS3916/VRC	
M58	
Replacement.....	0887 00-1
Guard	
Replacement.....	0575 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Mast Bracket Assembly	
M1068A3	
Repair.....	0625 00-1
Replacement.....	0625 00-1
Support	
M58	
Replacement.....	0602 00-1
APIU Rack	
Mount and Bracket	
M1068A3	
Replacement.....	0813 00-1
Arm	
Road wheel support	
Replacement.....	0415 00-1
Arm assembly	
Idler wheel	
Replacement.....	0417 00-1
Armor	
Front	
M113A3	
Replacement.....	0749 00-1
Shields, Commander's Cupola	
M113A3 and M1064A3	
Replacement.....	0747 00-1
Smoke Generator (M1059A3)	
Replace.....	0771 00-1
Armor Kit	
M113A3	
Installation.....	0748 00-1
Mine	
M113A3	
Installation/Removal.....	0752 00-1
Armor plate	
Left front	
Replacement.....	0447 00-1
Right front	
Replacement.....	0448 00-1
AS3916/VRC Antenna	
M58	
Replacement.....	0887 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Assembly	
M8A3/M14 Orifice connector	
M113A3, M1059A3, and M577A3 only	
Replace.....	0780 00-1
Auxiliary power (slave) receptacle	
M113A3, M1059A3, M1064A3, and M58 only	
Replacement.....	0263 00-1 ■
Auxiliary power (slave) receptacle ground lead	
M113A3, M1059A3, M1064A3, and M58	
Replacement.....	0379 00-1 ■
Auxiliary Power Unit	
5.0 KW	
M577A3 and M1068A3	
Replacement.....	0675 00-1
Auxiliary Power Unit Fuel Shutoff Valve	
M577A3 and M1068A3	
Replacement.....	0676 00-1
Auxiliary Power Unit Valve-to-bulkhead Fuel Supply Hoses	
M577A3 and M1068A3	
Replacement.....	0677 00-1
Auxiliary Tank	
Replacement.....	0230 00-1
Auxiliary tank fluid level detector	
Replacement.....	0329 00-1
Azimuth lock	
Commander's cupola	
M113A3, M1059A3, M58, and M1064A3	
Replacement.....	0489 00-1
B	
Back Assembly	
Driver's Seat	
Repair.....	0554 00-1
Replacement.....	0553 00-1
Balance Hose	
Replacement.....	0234 00-1
Base	
Smoke grenade launcher	
M113A3 and M1059A3 only	
Replacement.....	0455 00-1 ■
Base Extension	
Right Side	
M1068A3	
Replacement.....	0623 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Base Extension Supports	
Right Side	
M1068A3	
Replacement.....	0624 00-1
Batteries and battery box	
M58	
Replacement.....	0348 00-1
Batteries and retainers	
M113A3 and M1059A3	
Replacement.....	0346 00-1
M577A3 and M1068A3	
Replacement.....	0347 00-1
Battery	
Box	
M577A3 and M1068A3	
Repair.....	0351 00-1
M1064A3	
Replacement.....	0349 00-1
Retainers	
M1064A3	
Replacement.....	0349 00-1
Battery box	
M113A3 and M1059A3	
Repair.....	0350 00-1
Battery box (right side)	
M1064A3	
Repair.....	0354 00-1
Battery box access cover	
M577A3 and M1068A3	
Repair.....	0352 00-1
Battery box hose	
Engine to	
Replacement.....	0714 00-1
Battery Box Insulation and Heat Exchanger	
Replacement.....	0718 00-1
Battery box vent fitting	
M58	
Replacement.....	0355 00-1
Battery drawer	
M1064A3	
Repair.....	0353 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Battery Drawer Insulation and Heat Exchanger	
M1064A3	
Replacement.....	0719 00-1
Battery ground lead	
M577A3 and M1068A3	
Connect	0338 00-1
Disconnect.....	0338 00-1
Battery ground strap	
M113A3, M1059A3, M1064A3, and M58	
Connect	0337 00-1
Disconnect.....	0337 00-1
Battery leads and terminals	
M113A3 and M1059A3	
Replacement.....	0340 00-1
M577A3 and M1068A3	
Replacement.....	0341 00-1
M58	
Replacement.....	0345 00-1
Battery leads and terminals (left side)	
M1064A3	
Replacement.....	0343 00-1
Battery leads and terminals (right side)	
M1064A3	
Replacement.....	0344 00-1
Battery Plate to Battery Plate Hose	
Replacement.....	0722 00-1
Battery to master switch lead (circuit 6)	
M1064A3	
Replacement.....	0358 00-1
M113A3 and M1059A 3	
Replacement.....	0356 00-1
M577A3 and M1068A3	
Replacement.....	0357 00-1
Battery-to-radio Wiring harness	
(Left Side)	
M113A3 and M1059A3	
Replacement.....	0369 00-1
Battery-to-radio wiring harness (right side)	
M113A3	
Replacement.....	0370 00-1
Battery/generator indicator malfunctions	0051 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Bearing	
Tow Start Control Assembly	
Replacement.....	0391 00-1
Bearings	
Idler wheel arm	
Replacement.....	0418 00-1
Road wheel support	
Replacement.....	0415 00-1
Belt	
Generator drive	
Adjustment.....	0252 00-1
Replacement.....	0253 00-1
Ventilating Fan Drive	
Adjustment.....	0242 00-1
Replacement.....	0243 00-1
Belts	
Coolant Pump	
Adjustment.....	0239 00-1
Coolant Pump Idler	
Replacement.....	0240 00-1
Personnel	
M113A3	
Replacement.....	0546 00-1
M577A3	
Replacement.....	0547 00-1
Personnel seat	
M1059A3	
Replacement.....	0549 00-1
M1064A3	
Replacement.....	0550 00-1
Bilge Pump	
Front	
Replace.....	0632 00-1
Pipes	
Front, Replace.....	0631 00-1
Rear	
Replacement.....	0635 00-1
Bilge pump circuit breakers	
Replacement.....	0275 00-1
Bilge Pump Pipes	
Rear Bilge	
Replacement.....	0634 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Blackout Curtain	
M577A3 and M1068A3	
Replacement.....	0629 00-1
Blackout dome lights do not work	
M1068A3 only	0041 00-1
Blackout drive light doesn't work.....	0030 00-1
Blackout headlight	
Repair	0306 00-1
Replacement.....	0305 00-1
Blackout marker light	
Repair	0308 00-1
Replacement.....	0307 00-1
Blackout marker light(s) don't work	0034 00-1
Blank display diagnostic troubleshooting	
STE/ICE	0138 00-1
Blower switch	
M577A3 and M1068A3 only	
Replacement.....	0278 00-1
Bottom access cover	
Power plant	
Replacement.....	0450 00-1
Box	
Battery	
M113A3 and M1059A3	
Repair.....	0350 00-1
Heater Control	
Coolant Heater	
Repair.....	0737 00-1
Repalcement.....	0736 00-1
Personnel Heater Control	
Repair	0702 00-1
Replacement.....	0701 00-1
Box Assembly A5	
Tent Interface Panel	
M1068A3	
Replacement.....	0833 00-1
Bracket	
Chemical Alarm Refill Tray	
M113A3	
Replacement.....	0922 00-1
Coolant Heater and Pump	
Replacement.....	0732 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Generator	
Replacement.....	0255 00-1
M13 Orifice	
M1068A3 only	
Replace.....	0781 00-1
Oil Can	
Replacement.....	0574 00-1
Parking brake	
Replacement.....	0331 00-1
Power Extension Box A18	
M1068A3	
Replacement.....	0836 00-1
Ramp	
M113A3, M577A3, and M1068A3	
Replacement.....	0516 00-1
Ramp Door Stop	
Replacement.....	0517 00-1
Roadside Data Panel Assembly A13	
M1068A3	
Replacement.....	0835 00-1
Spare Battery, Chemical Alarm	
M113A3	
Replace/Repair.....	0921 00-1
Transmission range controller	
Used with cable-activated steering lock	
Replacement.....	0387 00-1
Used with solenoid-activated steering lock	
Replacement.....	0386 00-1
Bracket,	
Mortar Base Stowage	
M1064A3	
Replacement.....	0615 00-1
Windshield Stowage	
M1064A3	
Replacement.....	0614 00-1
Brackets	
Rifle	
Replacement.....	0573 00-1
Brackets and Mounts	
Right Equipment Rack	
M1068A3	
Replacement.....	0814 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Brake	
Parking	
Adjustment.....	0408 00-1
Brake adjustment	
Transmission	
Check	0406 00-1
Brake assembly	
Commander's cupola	
M113A3, M1059A3, M58, and M1064A3	
Replacement.....	0492 00-1
Brakes	
Transmission	
Adjust.....	0394 00-1
Breather Hose	
Ramp Cylinder	
All Except M1064A3	
Replacement.....	0666 00-1
M1064A3	
Replacement.....	0667 00-1
Bulkhead Connection Hose	
Fuel Pump to	
M113A3, M1059A3, and M58	
Replacement.....	0691 00-1
Bulkhead connection to Personnel Heater Tube	
M577A3 and M1068A3	
Replacement.....	0687 00-1
Bumper	
Driver's Hatch	
M113A3, M1059A3, M1064A3, and M58	
Replacement.....	0532 00-1
Buzzer and switch	
Admittance	
M577A3 and M1068A3	
Replacement.....	0334 00-1
Bypass plug	
Differential	
Replacement.....	0401 00-1
C	
Cable	
Adapter	
M1068A3	
Replacement.....	0849 00-1, 0850 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Artillery Communication Inside	
M577A3	
Replacement.....	0746 00-1
Commander's Intercommunication Set	
M58	
Replacement.....	0893 00-1
Driver's Intercommunication Set	
M58	
Replacement.....	0892 00-1
Instrument panel special purpose	
Replacement.....	0290 00-1
Operator's Intercommunication Set	
M58	
Replacement.....	0894 00-1
Reel holder	
M1064A3	
Replacement.....	0603 00-1
Speedometer	
Repair.....	0861 00-1
Replace.....	0860 00-1
Service.....	0858 00-1
Tachometer	
Repair.....	0865 00-1
Replace.....	0864 00-1
Service.....	0858 00-1
W251	
M1068A3	
Replacement.....	0852 00-1
W252	
M1068A3	
Replacement.....	0857 00-1
W28	
M1068A3	
Replacement.....	0849 00-1
W29	
M1068A3	
Replacement.....	0850 00-1
W35	
M1068A3	
Replacement.....	0849 00-1
W38	
M1068A3	
Replacement.....	0850 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
W42	
M1068A3	
Replacement.....	0852 00-1
W43	
M1068A3	
Replacement.....	0852 00-1
Cable (W10)	
DC Power Extension	
M1068A3	
Replace.....	0844 00-1
Cable (W11)	
AC Light	
M1068A3	
Replacement.....	0845 00-1
Cable (W4)	
DC Battery	
M1068A3	
Replacement.....	0838 00-1
Cable (W40)	
Single Point LAN	
M1068A3	
Replacement.....	0851 00-1
Cable (W5)	
Inverter AC	
Replacement/Repair	0839 00-1
Cable (W6)	
Inverter DC	
M1068A3	
Replacement.....	0840 00-1
Cable (W7)	
AC Power Extension	
M1068A3	
Replacement.....	0842 00-1
Cable (W8)	
AC Power Extension (M1068A3)	
Replace.....	0843 00-1
Cable Assembly	
Control	
Tow Start	
Adjustment.....	0390 00-1
Smoke Generator Internal	
M1059A3	
Replacement.....	0760 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Cable assembly	
Driver's night vision (DNV) (AN/VVS-2) power supply	
All Except M58	
Replacement.....	0368 00-1
Cable Assembly (W4/W6)	
M1068A3	
Repair	0841 00-1
Cable reel holder assembly	
M1064A3	
Repair	0604 00-1
Cable Tube	
External	
Replacement.....	0905 00-1
Cable W3	
Power Distribution	
M1068A3	
Replacement.....	0837 00-1
Cable-activated steering lock malfunctions.....	0077 00-1
Cables	
LAN A or B (W103/W104)	
M1068A3	
Replacement.....	0854 00-1
W124	
M1068A3	
Replacement.....	0855 00-1
W126	
M1068A3	
Replacement.....	0856 00-1
W45	
M1068A3	
Replacement.....	0853 00-1
Cables and switch assembly	
M14 NBC	
M1059A3	
Replacement.....	0799 00-1
Cap	
Muffler	
Replacement.....	0223 00-1
Cargo hatch cover	
M113A3 and M1059A3	
Replacement.....	0479 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Cargo hatch hold-open hook and bumpers	
M113A3 and M1059A3	
Replacement.....	0474 00-1
Cargo hatch interior latch	
M113A3 and M1059A3	
Replacement.....	0475 00-1
Cargo hatch seals	
M113A3 and M1059A3	
Replacement.....	0478 00-1
Wheel assembly	
Drive sprocket	
Repair.....	0421 00-1
Carrier does not move in any shift lever position.....	0062 00-1
Carrier drifts or does not steer.....	0063 00-1
Carrier moves with transmission in SL.....	0061 00-1
Carrier does not attain high speed.....	0061 01-1
Cascade Remote Harness	
M1068A3	
Replacement.....	0847 00-1
Catches and bumpers	
Mortar hatch exterior	
M1064A3	
Replacement.....	0480 00-1
Chain Assembly, Litter Kit	
M113A3	
Repair.....	0745 00-1
Chain Assembly, Litter Kit	
M113A3	
Replace.....	0744 00-1
Chemical Agent Automatic Alarm Kit	
Junction Box	
M113A3	
Repair.....	0920 00-1
M113A3	
Installation/Removal.....	0918 00-1
Junction Box	
Replacement.....	0919 00-1
Refill Tray Bracket	
M113A3	
Replacement.....	0922 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Spare Battery	
M113A3	
Replace/Repair	0921 00-1
Wiring Harnesses, M43 Unit Interface	
M113A3	
Replacement.....	0923 00-1
Circuit breaker	
Dome light	
M577A3 and M1068A3	
Replacement.....	0316 00-1
Replacement	0280 00-1
Circuit breakers	
Bilge pump	
Replacement	0275 00-1
Rear utility receptacle	
M577A3 and M1068A3 only	
Replacement.....	0276 00-1
Clamps	
Tent	
M577A3	
Replacement.....	0627 00-1
Coil	
Air Box Ignition	
Replacement.....	0208 00-1
Combat filler cover and lock	
Replacement	0466 00-1
Combat lock	
Power plant door	
Replacement.....	0473 00-1
Commander's Cupola	
Armor Shields	
M113A3, M1059A3, and M1064A3	
Replacement.....	0747 00-1
Commander's cupola azimuth lock	
M113A3, M1059A3, M58, and M1064A3	
Replacement	0489 00-1
Commander's cupola brake assembly	
M113A3, M1059A3, M58, and M1064A3	
Replacement.....	0492 00-1
Commander's cupola cover	
M113A3, M1059A3, and M1064A3	
Replacement.....	0493 00-1
Commander's cupola cushioning pad and handle	

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
M113A3, M1059A3, M58, and M1064A3 Replacement	0488 00-1
Commander's cupola hold-open hook and bumper M113A3, M1059A3, M58, and M1064A3 Replacement	0494 00-1
Commander's cupola interior latch M113A3, M1059A3, M58, and M1064A3 Replacement	0496 00-1
Commander's cupola machine gun mount M113A3, M1059A3, M58, and M1064A3 Repair	0498 00-1
Replacement	0497 00-1
Commander's cupola machine gun mount stops M1059A3 Replacement	0499 00-1
Commander's cupola safety pin stowage block M113A3, M1059A3, M58, and M1064A3 Replacement	0495 00-1
Commander's cupola vision block locks and seals M1064A3 Replacement	0491 00-1
M113A3 and M1059A3, M58 Replacement	0490 00-1
Commander's Display Mounting Bracket (DVE) M58 Replacement	0866 06-1
Commander's hatch cover M577A3 and M1068A3 Replacement	0503 00-1
Commander's hatch cushioning pad and handle M577A3 and M1068A3 Replacement	0500 00-1
Commander's hatch hook and bumper M577A3 and M1068A3 Replacement	0501 00-1
Commander's hatch interior latch M577A3 and M1068A3 Replacement	0502 00-1
Commander's Intercommunication Set Cable M58 Replacement	0893 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Commander's Jump Seat	
M113A3	
Replacement.....	0563 00-1
Commander's platform	
M113A3, M1059A3, M1064A3, and M58	
Replacement/repair.....	0559 00-1
Commander's Platform and Post	
M577A3 and M1068A3	
Replacement/Repair	0564 00-1
Commander's Seat	
M1068A3	
Replacement/repair.....	0566 00-1
Commander's seat	
M113A3, M1059A3, M1064A3, and M58	
Repair.....	0562 00-1
Commander's Seat and Post	
M1064A3	
Replacement.....	0561 00-1
M113A3, M1059A3, and M58	
Replacement.....	0560 00-1
Commander's Vision Enhancer (DVE) display does not work.....	0116 02-1
Communication Box A11, External	
Lid and Latches	
Replace (M1068A3).....	0818 00-1
Communication Box A11, External (M1068A3)	
Replace	0817 00-1
Communication Cabling Diagram	
M58	0884 00-1
Confidence test diagnostic troubleshooting	
STE/ICE	0139 00-1
Connector assembly	
M13 Orifice	
M1068A3 only	
Replace.....	0781 00-1
Connector assembly, bracket, and quick coupling half	
M13 Orifice	
M1068A3 only	
Replace.....	0781 00-1
Control Assembly and Bearing	
Tow Start	
Replacement.....	0391 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Control assembly, bracket, links, and pins (cable-activated lock)	
Push-pull	
Replacement.....	0429 00-1
Control Box	
Coolant Heater	
Repair.....	0737 00-1
Replacement.....	0736 00-1
Personnel Heater	
Repair.....	0702 00-1
Replacement.....	0701 00-1
Control Cable Assembly	
Fuel Cutoff	
Replacement.....	0220 00-1
Hand throttle	
Replacement.....	0219 00-1
Control cable assembly	
Parking brake	
Replacement.....	0411 00-1
Control lever assembly	
Parking brake	
Replacement.....	0412 00-1
Control linkage	
Service brake	
Adjustment.....	0407 00-1
Replacement.....	0410 00-1
Trim vane	
Repair.....	0461 00-1
Control Valve	
Fire Extinguisher	
Replacement.....	0904 00-1
Control Valve (with Internal Relief Valve)	
Ramp	
Replacement.....	0661 00-1
Controller	
Glow plug	
Replacement.....	0210 00-1
Controller Mounting Bracket	
Glow Plug	
Replacement.....	0212 00-1
Coolant Air Separator	
Replacement.....	0236 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Coolant Heater	
Control Box	
Repair	0737 00-1
Replacement	0736 00-1
Coolant	
Heater to Engine Elbow, Replace	0715 00-1
Exhaust Elbow and Pipes	
Replacement	0724 00-1
Fuel Pump	
Replacement	0723 00-1
Fuel Shutoff Valve	
Replacement	0720 00-1
Hoses	
Fuel	
Inlet, Replace	0712 00-1
Hoses	
Coolant	
Pump to Battery Box, Replace	0713 00-1
Fuel	
Filter Valve, Replace	0716 00-1
Pump, Replace	0711 00-1
Pump	
Replacement	0731 00-1
Replace	0728 00-1, 0729 00-1
Wiring Harness	
Replacement	0735 00-1
Coolant Heater and Pump	
Bracket	
Replacement	0732 00-1
Coolant Heater Fuel Filter	
Service	0708 00-1
Coolant Heater Fuel Pump	
Service	0709 00-1
Coolant heater malfunctions	0089 00-1
Coolant Heater to Surge Tank Hose	
Replacement	0725 00-1
Coolant Hose and Tube	
Upper	
Replacement	0232 00-1
Coolant Pump Belts	
Adjustment	0239 00-1
Coolant temp indicator malfunctions	0053 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Coolant temperature transmitter	
Replacement	0321 00-1
Cooling system	
Drain and fill	0227 00-1
Cover	
Antenna	
Replacement	0576 00-1
Battery box access	
M577A3 and M1068A3	
Repair	0352 00-1
Cargo hatch	
M113A3 and M1059A3	
Replacement	0479 00-1
Commander's cupola	
M113A3, M1059A3, and M1064A3	
Replacement	0493 00-1
Commander's hatch	
M577A3 and M1068A3	
Replacement	0503 00-1
Driver's Hatch	
Replacement	0531 00-1
Fan drive pulley access	
Removal/installation	0440 00-1
Thermostat	
Replacement	0237 00-1
Tow Start Control Assembly	
Replacement	0392 00-1
Covers	
Mortar hatch	
Cushioning Pad	
Driver's Hatch	
Replacement	0530 00-1
Cushioning pad and handle	
Commander's cupola	
M113A3, M1059A3, M58, and M1064A3	
Replacement	0488 00-1
Commander's hatch	
M577A3 and M1068A3	
Replacement	0500 00-1
Cushions	
Personnel	
M113A3	
Replacement	0546 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
M577A3	
Replacement.....	0547 00-1
Personnel Seat	
M1059A3	
Replacement.....	0549 00-1
M1064A3	
Replacement.....	0550 00-1
Cylinder	
Fire Extinguisher	
Discharge Tubes	
Replacement.....	0899 00-1
Ramp	
Replacement.....	0656 00-1
Cylinder, Turbine	
Fire Extinguisher Discharge Tubes	
M58	
Replacement.....	0900 00-1
D	
Data Panel Assembly	
A13 Roadside	
M1068A3	
Replacement.....	0835 00-1
Data Panel Assembly (M1068A3)	
A12, Curbside	
Replace.....	0819 00-1
Data Plates, Stencils, Markers, and Decals	
Replacement.....	0654 00-1
Dataplates, Decals, and Markers	
All Models.....	0644 00-1
M1059A3.....	0651 00-1
M1064A3.....	0652 00-1
M113A3, M1059A3.....	0647 00-1
M113A3, M1059A3, M58.....	0646 00-1
M113A3, M1059A3.....	0645 00-1
M577A3, M1068A3 Only.....	0648 00-1
M58.....	0653 00-1
DC Battery Cable (W4)	
M1068A3	
Replacement.....	0838 00-1
DC Power Extension Box A9	
M1068A3	
Replacement.....	0834 00-1
DC Power Extension Cable (W10)	

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
M1068A3	
Replacement.....	0844 00-1
DCA battery voltage diagnostic troubleshooting	0141 00-1
DCA current shunt diagnostic troubleshooting	0142 00-1
Detector	
Auxiliary tank fluid level	
Replacement.....	0329 00-1
Diagram	
Communication Cabling	
M58	0884 00-1
Differential Pressure Switch	
Fuel Filter	
Replacement.....	0328 00-1
Differential pressure switch	
Replacement.....	0401 00-1
Dipstick	
Transmission oil level filler tube, and adapter	
X200-4	
Replacement.....	0395 00-1
X200-4A	
Replacement.....	0396 00-1
Discharge Tubes	
Cylinder	
Replacement.....	0899 00-1
Cylinder, Turbine	
M58	
Replacement.....	0900 00-1
STE/ICE	
M1064A3	
Replacement.....	0877 00-1
M113A3 and M1059A3	
Replacement.....	0874 00-1
M577A3 and M1068A3	
Replacement.....	0875 00-1
Distribution box	
M113A3, M1059A3, M1064A3, and M58	
Replacement.....	0269 00-1
M113A3, M1059A3, M1064A3, and M58 only	
Repair.....	0270 00-1
M577A3 and M1068A3 only	
Replacement.....	0271 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Dome blackout light bypass switch	
M577A3 and M1068A3	
Replacement.....	0317 00-1
Dome light	
All Except M577A3 and M1068A3	
Repair.....	0310 00-1
Replacement.....	0309 00-1
M577A3 and M1068A3	
Repair.....	0312 00-1
Replacement.....	0311 00-1
Dome light and mount	
M577A3 and M1068A3	
Repair.....	0312 00-1
Dome light circuit breaker	
M577A3 and M1068A3	
Replacement.....	0316 00-1
Dome light lens	
All Except M577A3 and M1068A3	
Replacement.....	0313 00-1
Dome light malfunction	
M577A3 only.....	0040 00-1
Dome light switch	
Front	
M577A3 and M1068A3	
Replacement.....	0314 00-1
Rear	
M577A3 and M1068A3	
Replacement.....	0315 00-1
Dome light(s) do not work.....	0039 00-1
Door	
Power plant	
All except M113A3	
Replacement.....	0471 00-1
M113A3	
Replacement.....	0470 00-1
Repair.....	0472 00-1
Door combat lock	
Power plant	
Replacement.....	0473 00-1
Drain Check Valve and tubes	
Left Air Box	
Replace.....	0159 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Drain Cock and Hose	
Replacement	0235 00-1
Drain plug	
Hull	
Replacement	0451 00-1
Drain plugs	
Final drive hull	
Replacement	0452 00-1
Fuel tank	
All except M577A3 and M1068A3	
Replacement	0187 00-1
Ramp	
Replacement	0515 00-1
Drawer	
Battery	
M1064A3	
Repair	0353 00-1
Drive Belt	
Ventilating Fan	
Adjustment	0242 00-1
Replacement	0243 00-1
Drive belt	
Generator	
Replacement	0253 00-1
Drive Pulley	
Ventilating Fan	
Replacement	0244 00-1
Drive shaft and bearing housing	
Fan	
Replacement	0248 00-1
Drive sprocket and wheel assembly	
Replacement	0420 00-1
Drive sprocket wheel assembly	
Drive sprocket	
Repair	0420 01-1, 0421 00-1
Driver's compartment floor plates	
Replacement	0453 00-1
Driver's Display Mounting Bracket (DVE)	
M58	
Replacement	0866 02-1
Driver's footrest	
Replacement	0558 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Driver's Hatch	
Bumper	
M113A3, M1059A3, M1064A3, and M58	
Replacement.....	0532 00-1
Cushioning Pad	
Replacement.....	0530 00-1
Exterior Lock	
Replacement.....	0531 00-1
Hold-open Hook	
M113A3, M1059A3, M1064A3, and M58	
Replacement.....	0532 00-1
Driver's hatch night vision mount	
M58	
Replacement.....	0537 01-1
Driver's Intercommunication Set	
Cable	
M58	
Replacement.....	0892 00-1
Driver's night vision (DNV) (AN/VVS-2) power supply cable assembly	
All Except M58	
Replacement.....	0368 00-1
Driver's night vision guard (AN/VVS-2)	
Driver's Hatch	
All Except M58	
Replacement.....	0536 00-1
Driver's night vision mount	
AN/VVS-2	
All Except M58	
Replacement.....	0537 00-1
Driver's night vision mount (AN/VVS-2)	
All Except M58	
Replacement.....	0537 00-1
Driver's Night Vision Stowage	
AN/VVS-2	
All Except M58	
Replacement.....	0572 00-1
Driver's power plant access panel	
Replacement.....	0441 00-1
Driver's Seat	
Repair.....	0552 00-1
Driver's seat assembly	
Replacement.....	0551 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Driver's seat back assembly	
Repair	0554 00-1
Replacement	0553 00-1
Driver's seat impact absorber	
Replacement	0555 00-1
Driver's seat post assembly	
Repair	0557 00-1
Replacement	0556 00-1
Driver's Vision Enhancer (DVE) AN/VAS-5 Power Supply Cable M58	
Replacement	0866 04-1
Driver's Vision Enhancer (DVE) display does not work	0116 01-1
Driver's windshield	
Replacement	0739 00-1
towage bag, straps, and decal	
Replacement	0740 00-1
DVE Sensor Set Assembly Power Cable M58	
Replacement	0866 01-1
E	
Elbow	
Air intake	
Replace	0173 00-1
Coolant Heater Exhaust	
Replacement	0724 00-1
Electrical Cable Assembly	
Air Compressor	
M1059A3	
Replacement	0758 00-1
Fog Oil Pump	
M1059A3	
Replacement	0759 00-1
Element	
Filter	
Air Cleaner	
Service	0167 00-1
Enclosure	
Generator set	
M577A3 and M1068A3	
Replacement	0674 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Enclosure Assembly A1	
Power Control	
M1068A3	
Replacement.....	0826 00-1
Engine	
Adapter, Tachometer	
Replace.....	0863 00-1
Block Fitting and Hardware	
Replacement.....	0717 00-1
Exhaust elbows	
Left/right, replace.....	0225 00-1
Fuel return hose	
Replacement.....	0201 00-1
Fuel supply hose	
Replacement.....	0200 00-1
Lifting bracket, replace.....	0161 00-1
Oil filler cap, replace.....	0162 00-1
Oil sampling valve and hose, replace.....	0163 00-1
Engine Coolant Heater System	
Drain and Fill.....	0710 00-1
Engine coolant low level indicator malfunctions.....	0058 00-1
Engine Coolant Pump	
Replacement.....	0241 00-1
Engine cranks but will not start.....	0021 00-1
Engine cranks but won't start below 40 degrees (air box heater is used).....	0022 00-1
Engine cranks but won't start below 40 degrees F (glow plugs are used).....	0023 00-1
Engine cranks slowly.....	0020 00-1
Engine does not crank.....	0016 00-1
Engine does not start (cold weather only).....	0017 00-1
Engine exhaust elbows and double flex joint	
Replacement.....	0221 00-1
Engine fuel pump	
Replacement.....	0166 00-1
Engine Mounts	
Replace.....	0158 00-1
Engine oil low pressure indicator comes on.....	0026 00-1
Engine oil low pressure indicator malfunctions.....	0055 00-1
Engine oil low pressure transmitter and hardware	
Replacement.....	0320 00-1
Engine overcools.....	0015 00-1
Engine overheats (Old VSFD Configuration).....	0014 00-1
Engine overheats (New VSFD Configuration).....	0014 01-1
Engine runs rough, stalls, or doesn't put out full power.....	0024 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Engine start switch	
Replacement	0284 00-1
Engine to battery box hose	
Replacement	0714 00-1
Engine wiring harness	
Replacement	0359 00-1
Equipment Description	0002 00-1
Location and Description of Major Components	0002 00-1
Evacuator valve and connector	
Exhaust	
Replace	0175 00-1
Exhaust	
Evacuator valve and connector	
Replace	0175 00-1
Exhaust elbows and double flex joint	
Engine	
Replacement	0221 00-1
Exhaust Joint, Double Flex, Repair	0222 00-1
Exhaust muffler and bracket	
Replace	0224 00-1
Exhaust Pipe Heat Shield, Turbo, Left/Right, Replace	0226 00-1
Exhaust Pipes, Heater	
All Except M1064A3	
Replacement	0682 00-1
Expendable/Durable Supplies and Materials List	0928 00-1
Extender Assembly	
Tow Pintle	
M113A3	
Repair	0811 02-1
Extender Kit	
Tow Pintle	
M113A3	
Installation	0811 01-1
Extension	
Muffler	
Replacement	0223 00-1
Engine overheats (New VSFD Configuration)	0014 01-1
Extension Box A7	
AC Power	
Replace	0815 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Exterior catches and bumpers	
Mortar hatch	
M1064A3	
Replacement.....	0480 00-1
Exterior Lock	
Driver's Hatch	
Replacement.....	0531 00-1
External Cable Tube	
Replacement.....	0905 00-1
External Handle	
Fire Extinguisher	
Replacement.....	0904 00-1
External Handle Shield	
M1064A3	
Replacement.....	0903 00-1
M113A3 and M1059A3	
Replacement.....	0901 00-1
M577A3 and M1068A3	
Replacement.....	0902 00-1
Extinguisher, Fire	
Cylinder and Mount	
Replacement.....	0898 00-1
F	
Fan	
Variable Speed Drive	0249 00-1
Fan	
Variable Speed Drive	
Fan Drive Assembly.....	0249 01-1
Fan	
Variable Speed Drive	
Controller	0250 01-1
Fan	
Ventilation	
M577A3 and M1068A3	
Replacement.....	0383 00-1
Fan and generator variable speed drive	
Replacement.....	0249 00-1
Fan drive pulley access cover	
Removal/installation	0440 00-1
Fan drive shaft and bearing housing	
Replacement.....	0248 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Field pressure switch	
Generator	
Replacement.....	0323 00-1
Filler Cap	
Strainer Parts	
All Except M577A3 and M1068A3	
Replacement.....	0184 00-1
M577A3 and M1068A3	
Replacement.....	0185 00-1
Filler Cover and Lock	
Fuel Tank	
All Except M577A3 and M1068A3	
Replacement.....	0182 00-1
Filler Flange	
Fuel Tank	
M577A3 and M1068A3	
Replacement.....	0189 00-1
Filler tube	
Dipstick, transmission oil level	
X200-4	
Replacement.....	0395 00-1
X200-4A	
Replacement.....	0396 00-1
Filler tube and dipstick	
Final drive	
Replacement.....	0402 00-1
Filler, fuel and strainer parts	
M577A3 and M1068A3	
Replacement.....	0186 00-1
Filter	
Fuel	
Replacement.....	0726 00-1
Filter Element	
Transmission oil	
Replacement.....	0398 00-1
Filter Fuel Supply Hoses	
M113A3, M1059A3, and M58	
Replacement.....	0685 00-1
Final drive	
Replacement.....	0403 00-1
Final drive differential oil seal	
Replacement.....	0404 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Final drive filler tube and dipstick	
Replacement	0402 00-1
Final drive hull drain plugs	
Replacement	0452 00-1
Fire Extinguisher	
Cylinder and Mount	
Replacement	0898 00-1
Fire Extinguisher	
Control Valve	
Replacement	0904 00-1
External Handle	
Replacement	0904 00-1
M1059A3	
Replacement	0896 00-1
Fittings	
Coolant Heater Fuel Inlet	
Replace	0712 00-1
Fuel Return	
M1064A3	
Replacement	0197 00-1
M113A3, M1059A3, and M58	
Replacement	0195 00-1
M577A3 and M1068A3	
Replacement	0196 00-1
Fuel Vent	
M577A3 and M1068A3	
Replacement	0198 00-1
Personnel heater	
M577A3 and M1068A3	
Replacement	0700 00-1
Ramp Control Valve (with Internal Relief Valve)	
Replacement	0661 00-1
Flame Detector Switch	
Adjust	0727 00-1
Coolant Heater	
Replacement	0734 00-1
Flat pulleys and bearings	
Replacement	0245 00-1
Floor Plates	
M1059A3	
Replacement	0542 00-1
M1064A3	
Replacement	0543 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
M1068A3	
Replacement.....	0544 00-1
M113A3 and M577A3	
Replacement.....	0539 00-1
M58	
Replacement.....	0545 00-1
Floor plates	
Driver's compartment	
Replacement.....	0453 00-1
Fluid level detector	
Auxiliary tank	
Replacement.....	0329 00-1
Fluorescent Light Assemblies	
M1068A3	
Replacement.....	0825 00-1
Fluorescent lights do not operate	
M1068A3 only	0102 00-1
Fog Oil Pump	
Electrical Cable Assembly	
M1059A3	
Replacement.....	0759 00-1
Fog Oil Pump Assembly	
(M1059A3 Only)	
Replace.....	0763 00-1
Fog Oil Quick Disconnect to Adapter Access Plate Hose (M1059A3), Cover Assembly	
Replace.....	0770 00-1
Fog Oil Tank (M1059A3)	
Hose	
Quick Disconnect to Adapter Access Plate	
Replace.....	0769 00-1
Fog Oil Tank Module	
M1059A3	
Replacement.....	0753 00-1
Footrest	
Driver's	
Replacement.....	0558 00-1
Forward spall liner and bracket	
M113A3	
Replacement.....	0507 00-1
Forward Table, Right	
M577A3	
Replacement.....	0581 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Forward upper right and left side spill liners	
M113A3	
Replacement.....	0508 00-1
Frame	
Blackout Curtain	
M577A3 and M1068A3	
Replacement.....	0629 00-1
Front access cover	
Hull	
Replacement.....	0449 00-1
Front and/or rear bilge pump(s) and/or lights don't work.....	0080 00-1
Front Armor	
M113A3	
Replacement.....	0749 00-1
Front armor plate	
Left	
Replacement.....	0447 00-1
Right	
Replacement.....	0448 00-1
Front Bilge Pump	
Replace.....	0632 00-1
Strainer	
Replace.....	0632 00-1
Front Bilge Valve	
Replace.....	0633 00-1
Front dome light switch	
M577A3 and M1068A3	
Replacement.....	0314 00-1
Fuel Shutoff Valve	
Coolant Heater	
Replacement.....	0720 00-1
Fuel Can Lid Assembly	
Smoke Generator (M1059A3)	
Replace.....	0764 00-1
Fuel cap vent and filter screen, clean.....	0176 00-1
Fuel Control Linkage	
Replacement.....	0217 00-1
Fuel Control Shaft	
Replacement.....	0217 00-1
Fuel Cutoff Control Cable Assembly	
Replacement.....	0220 00-1
Fuel Filters and Brackets	
Primary and Secondary.....	0203 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Fuel Filter	
Coolant Heater	
Service.....	0708 00-1
Replacement.....	0726 00-1
Fuel filter	
Personnel heater	
M577A3 and M1068A3	
Replacement.....	0700 00-1
Fuel Filter Differential Pressure Switch	
Replacement.....	0328 00-1
Fuel Filter Elements	
Primary and Secondary	
Replacement.....	0202 00-1
Fuel filter, hose, tube, and fittings	
Personnel heater	
M577A3 and M1068A3	
Replacement.....	0700 00-1
Fuel filter, hoses, and fittings	
Personnel heater	
M1064A3	
Replacement.....	0688 00-1
Fuel Filters and Brackets	
Primary and Secondary	
Replacement.....	0203 00-1
Fuel level indicator malfunctions .	0049 00-1
Fuel Line	
Lower	
Air Box Heater	
Replacement.....	0206 00-1
Fuel Lines	
Air From Personnel Heater	
Bleed	0679 00-1
Fuel Lines and Guards	
Smoke Generator (M1059A3)	
Replace.....	0765 00-1
Fuel Pump	
Coolant Heater	
Replacement.....	0723 00-1
Service.....	0709 00-1
Personnel Heater	
M113A3, M1059A3, and M58	
Replacement.....	0695 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Fuel pump	
Engine	
Replacement.....	0166 00-1
Fuel Pump Hose	
Coolant Heater	
Replace.....	0711 00-1
Fuel quantity transmitter	
All except M577A3 and M1068A3	
Replacement.....	0190 00-1
M577A3 and M1068A3	
Replacement.....	0191 00-1
Fuel return hoses	
Engine	
Replacement.....	0201 00-1
M1064A3	
Replacement.....	0197 00-1
M 113A3, M1059A3, and M58	
Replacement.....	0195 00-1
M577A3 and M1068A3	
Replacement.....	0196 00-1
Fuel return pressure transducer	
Replacement.....	0325 00-1
Fuel select switch to gauge lead	
All Except M577A3 and M1068A3	
Replacement.....	0281 00-1
Fuel selector switch	
M577A3 and M1068A3 only	
Replacement.....	0277 00-1
Fuel Shut-off Valve assembly	
M113A3, M1059A3, and M58	
Replacement.....	0684 00-1
Fuel Shutoff Valve	
Auxiliary Power Unit	
M577A3 and M1068A3	
Replacement.....	0676 00-1
Fuel Supply	
Hoses, Tubes, and Fittings	
M1064A3	
Replacement.....	0194 00-1
M113A3, M1059A3, and M58	
Replacement.....	0192 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Fuel supply	
Hoses, tubes, and fittings	
M577A3 and M1068A3	
Replacement.....	0193 00-1
Fuel Supply Hoses	
Auxiliary Power Unit Valve-to-bulkhead	
M577A3 and M1068A3	
Replacement.....	0677 00-1
Fuel supply hoses	
Auxiliary power unit bulkhead-to-hull	
M577A3 and M1068A3	
Replacement.....	0678 00-1
Engine	
Replacement.....	0200 00-1
Fuel supply pressure transducer	
Replacement.....	0324 00-1
Fuel Tank	
Filler Cover and Lock	
All Except M577A3 and M1068A3	
Replacement.....	0182 00-1
Filler Flange	
M577A3 and M1068A3	
Replacement.....	0189 00-1
Fuel tank access covers	
M577A3 and M1068A3	
Replacement.....	0188 00-1
Fuel tank drain plugs	
M577A3 and M1068A3	
Replacement.....	0187 00-1
Fuel tank filler	
Cover and lock	
M577A3 and M1068A3	
Replacement.....	0183 00-1
Fuel Tank to Fuel Pump Hose	
M577A3 and M1068A3	
Replacement.....	0690 00-1
Fuel Tanks	
Drain	
M577A3 and M1068A3	0178 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Fuel tanks	
All except M577A3 and M1068A3, replace	0179 00-1
Drain	
All except M577A3 and M1068A3.....	0177 00-1
M577A3 and M1068A3	
Replacement.....	0180 00-1
Temporary repair (M577A3 and M1068A3).....	0181 00-1
Fuel Tube	
Personnel Heater	
All Except M1064A3	
Replacement.....	0686 00-1
Fuel Valve	
Mounting Blocks	
All Except M577A3 and M1068A3	
Replacement.....	0199 00-1
Fuel Vent Hoses, Tubes, and Fittings	
M577A3 and M1068A3	
Replacement.....	0198 00-1
G	
Gasket	
Adapter Access Plate	
Smoke Generator (M1059A3)	
Replace.....	0766 00-1
Turbine access door	
M58	
Replacement.....	0486 00-1
Gauges	
Instrument panel	
Replacement.....	0285 00-1
General Information	0001 00-1
Generator	
Drive belt	
Replacement.....	0253 00-1
Replacement.....	0255 00-1
Turnbuckle parts	
Replacement.....	0254 00-1
Generator	
Variable Speed Drive	0249 00-1
Generator drive belt	
Adjustment	0252 00-1
Generator field pressure switch	
Replacement.....	0323 00-1
Generator malfunctions as indicated by battery/generator indicator.....	0025 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Generator set	
Enclosure	
M577A3 and M1068A3	
Replacement.....	0674 00-1
Glow Plug	
Controller Mounting Bracket	
Replacement.....	0212 00-1
Glow Plug Cable Assembly	
Smoke Generator (M1059A3)	
Replace.....	0772 00-1
Glow plug controller	
Replacement.....	0210 00-1
Glow plug harness	
Replacement.....	0209 00-1
Glow Plug Power Harness	
Replacement.....	0211 00-1
Glow plugs	
Replacement.....	0209 00-1
Governor assembly	
Replacement.....	0397 00-1
Grenade Stowage box	
M1064A3	
Replacement.....	0610 00-1
Grill	
Air Intake elbow and hose	
Replace.....	0174 00-1
Grill screen	
Power plant	
Replacement.....	0468 00-1
Grill support arm	
Power plant	
Replacement.....	0467 00-1
Grille	
Power plant	
Raise and lower.....	0464 00-1
Removal/installation.....	0465 00-1
Ground lead	
Auxiliary power (slave) receptacle	
M113A3, M1059A3, M1064A3, and M58	
Replacement.....	0379 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Battery	
M577A3 and M1068A3	
Connect	0338 00-1
Disconnect	0338 00-1
Ground Strap (W12)	
M1068A3	
Replacement	0846 00-1
Guard	
Antenna	
Replacement	0575 00-1
Driver's Hatch Night Vision	
M58	
Replacement	0536 01-1
Headlight	
Replacement	0446 00-1
Smoke grenade launcher	
M113A3 and M1059A3 only	
Replacement	0455 00-1
H	
Hand Throttle Control Cable Assembly	
Replacement	0219 00-1
Handle and Arms	
Ramp Lock	
All Except M577A3 and M1068A3	
Replacement	0524 00-1
Harness	
Cascade Remote	
M1068A3	
Replacement	0847 00-1
Glow plug	
Replacement	0209 00-1
Trailer	
Replacement	0375 00-1
Harness W32	
M1068A3	
Replacement	0848 00-1
Headlight	
Blackout	
Repair	0306 00-1
Replacement	0305 00-1
Headlight guard	
Replacement	0446 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Headlight high beam selector switch	
Replacement	0333 00-1
Headlights	
Service and infrared	
Repair	0304 00-1
Replacement	0303 00-1
Heat Exchanger	
Battery Box	
Replacement	0718 00-1
Battery Drawer	
M1064A3	
Replacement	0719 00-1
Heat shield	
Turbo exhaust pipe	
Left/right, replace	0226 00-1
Water/Ration	
Mount Bracket (M113A3 Only)	
Replace	0811 00-1
Power Cable (M113A3 Only)	
Replace	0810 00-1
Heater Control Box	
M3 NBC	
M577A3	
Replacement	0792 00-1
Heater control box	
M3 NBC	
M1068A3	
Replacement	0793 00-1
Heater Fuel Supply Hoses	
M113A3 and M58	
Replacement	0685 00-1
Heater Hoses and Fittings	
M3 NBC	
Replace	0784 00-1
Heaters and Controllers	
M3 NBC	
M113A3 Ambulances	
Replacement	0795 00-1
High beam indicator light doesn't work	0050 00-1
High beam selector switch	
Headlight	
Replacement	0333 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Hinges	
Turbine access door	
M58	
Replacement.....	0487 00-1
Hold-open Hook	
Driver's Hatch	
M113A3, M1059A3, M1064A3, and M58	
Replacement.....	0532 00-1
Hold-Open Hook and Bumper	
Driver's Hatch	
M577A3 and M1068A3	
Replacement.....	0533 00-1
Hold-open hook and bumper	
Commander's cupola	
M113A3, M1059A3, M58, and M1064A3	
Replacement.....	0494 00-1
Hook and bumper	
Commander's cupola hold-open	
M113A3 and M1059A3	
Replacement.....	0494 00-1
Commander's hatch	
M577A3 and M1068A3	
Replacement.....	0501 00-1
Hook and bumpers	
Cargo hatch hold-open	
M113A3 and M1059A3	
Replacement.....	0474 00-1
Hook and Eye	
Towing	
Replacement.....	0443 00-1
Hopper hatch	
M58	
Replacement.....	0484 00-1
Hopper hatch lock assembly	
M58	
Replacement.....	0483 00-1
Horn and ground lead	
Replacement.....	0336 00-1
Horn does not work	0037 00-1
Horn switch	
All Except M58	
Replacement.....	0293 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
M58	
Replacement.....	0293 01-1
Hose	
Balance	
Replacement.....	0234 00-1
Battery Plate to Battery Plate	
Replacement.....	0722 00-1
Bulkhead to Ramp Cylinder	
Replacement.....	0665 00-1
Coolant Heater to Surge Tank	
Replacement.....	0725 00-1
Engine to battery box	
Replacement.....	0714 00-1
Fuel Pump Tee To Elbow	
Replacement.....	0721 00-1
Fuel Pump to Bulkhead Connection	
M113A3 , M1059A3, and M58	
Replacement.....	0691 00-1
Fuel return	
Engine	
Replacement.....	0201 00-1
Fuel supply	
Engine	
Replacement.....	0200 00-1
Fuel Tank to Fuel Pump	
M577A3 and M1068A3	
Replacement.....	0690 00-1
Personnel heater	
M577A3 and M1068A3	
Replacement.....	0700 00-1
Quick Disconnect to Adapter Access Plate	
Fog Oil Tank (M1059A3)	
Replace.....	0769 00-1
Hose, restriction indicator	
Air cleaner	
Replace.....	0172 00-1
Hoses	
Auxiliary power unit bulkhead-to-hull fuel supply	
M577A3 and M1068A3	
Replacement.....	0678 00-1
Auxiliary Power Unit Valve-to-bulkhead Fuel Supply	
M577A3 and M1068A3	
Replacement.....	0677 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
■ Filter Fuel Supply	
M113A3, M1059A3, and M58	
Replacement.....	0685 00-1
Fuel Vent	
M577A3 and M1068A3	
Replace.....	0198 00-1
Heater Fuel Supply	
■ M113A3, M1059A3, and M58	
Replacement.....	0685 00-1
M13 NBC heater	
M1068A3 only	
Replace.....	0790 00-1
Thermostat	
Replacement.....	0238 00-1
Transmission oil supply and return	
Replacement.....	0251 00-1
Hoses from thermostat to	
Variable speed drive	
Replacement.....	0250 00-1
Hoses	
■ Thermostat.....	0250 00-1
Hoses from thermostat to variable speed drive	
Replacement.....	0250 00-1
Hoses, Tubes, and Fittings	
Fuel Supply	
M1064A3	
Replacement.....	0194 00-1
■ M113A3, M1059A3, and M58	
Replacement.....	0192 00-1
Hoses, tubes, and fittings	
Fuel supply	
M577A3 and M1068A3	
Replacement.....	0193 00-1
Hose	
Variable Speed Drive	
■ Override Switch.....	0251 00-1
How to Use Troubleshooting	
Introduction.....	0005 00-1
Hub	
Road wheel	
Replacement.....	0416 00-1
Hull	
Repair By Welding.....	0529 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Hull drain plug	
Replacement	0451 00-1
Hull drain plugs	
Final drive	
Replacement	0452 00-1
Hull front access cover	
Replacement	0449 00-1
Hydraulic Reservoir	
Breather	
Service	0670 00-1
Hydraulic Hoses	
Power Plant	
Replacement	0668 00-1
Hydraulic Pump	
Ramp	
Replacement	0655 00-1
Hydraulic Reservoir	
Repair	0672 00-1
Hydraulic Reservoir	
Replacement	0671 00-1
Service	0669 00-1
I	
Idler Arm	
Replacement	0246 00-1
Idler wheel	
Replacement	0425 00-1
Idler wheel arm assembly	
Replacement	0417 00-1
Idler wheel arm bearings and seals	
Replacement	0418 00-1
Igniter	
Air Heater	
Replacement	0207 00-1
Replacement	0730 00-1
Ignition Coil	
Air Box	
Replacement	0208 00-1
Impact absorber	
Driver's Seat	
Replacement	0555 00-1
In blackout mode, fluorescent lights operate incorrectly	
M1068A3 only	0101 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Indicator lights	
Replacement	0286 00-1
Infrared headlight(s) don't work	0032 00-1
Initial Installation of Litter Kit	
M113A3	0741 00-1
Inoperable ramp	
Lower	0513 00-1
Raise	0513 00-1
Instrument panel	
Battery-generator gauge, wiring harness	
Replacement	0289 00-1
Instrument panel and/or trans controller illumination lights malfunction	0038 00-1
Instrument Panel Assembly	
All Except M58	
Replacement	0279 00-1
Instrument panel Assembly	
M58	
Replacement	0279 01-1
Instrument panel gauges	
Replacement	0285 00-1
Instrument Panel Mounts and Ground Lead	
All Except M58	
Replacement	0295 00-1
M58	
Replacement	0295 01-1
Instrument panel on-off switches	
Replacement	0282 00-1
Instrument panel special purpose cable	
Replacement	0290 00-1
Instrument Warning Light Panel	
Replacement	0288 00-1
Insulation	
Battery Box	
Replacement	0718 00-1
Battery Drawer	
M1064A3	
Replacement	0719 00-1
Intercom Amplifier	
M58	
Replace	0888 00-1
Intercommunications Set Control	
M58	
Replacement	0885 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Interior Latch	
Driver's Hatch	
Replacement.....	0534 00-1
Interior latch	
Cargo hatch	
M113A3 and M1059A3	
Replacement.....	0475 00-1
Commander's cupola	
M113A3, M1059A3, M58, and M1064A3	
Replacement.....	0496 00-1
Commander's hatch	
M577A3 and M1068A3	
Replacement.....	0502 00-1
Interior Lock	
Driver's Hatch	
Replacement.....	0534 00-1
Interior release mechanisms	
Mortar hatch	
M1064A3	
Replacement.....	0481 00-1
Intervehicle power cable	
M577A3 and M1068A3	
Replacement.....	0381 00-1
Inverter	
Housing A2 Terminal Blocks TB1 and TB2	
M1068A3	
Replacement.....	0830 00-1
Inverter AC Cable (W5)	
Replacement/Repair	0839 00-1
Inverter DC Cable (W6)	
M1068A3	
Replacement.....	0840 00-1
J	
Jump Seat	
Commander's	
M113A3	
Replacement.....	0563 00-1
Junction Box	
Chemical Alarm	
M113A3	
Repair	0920 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Power Cable/Alarm Cable, Chemical Alarm	
M113A3	
Replacement.....	0919 00-1
K	
Kit	
Initial Installation of Litter	
M113A3	0741 00-1
Kits	
Armor	
M113A3	
Installation	0748 00-1
Mine Armor	
M113A3	
Installation/Removal	0752 00-1
L	
Lamp	
Transmission range controller	
Replacement.....	0388 00-1
LAN (M1068A3)	
Ground Box Assembly A15	
Repair	0821 00-1
Replace.....	0820 00-1
LAN A or B Cable	
(W103/W104)	
M1068A3	
Replacement.....	0854 00-1
LAN Cable (W40) Single Point	
M1068A3	
Replacement.....	0851 00-1
Latch	
Interior	
Driver's Hatch	
Replacement.....	0338 00-1
Lead	
Battery ground	
M577A3 and M1068A3	
Connect	0338 00-1
Disconnect	0338 00-1
Horn and ground	
Replacement.....	0336 00-1
Power Control Enclosure Circuit 44A	
M1068A3	
Replacement.....	0829 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Lead (circuit 49)	
Master switch to distribution box	
M113A3 , M1059A3, M1064A3, and M58 only	
Replacement.....	0266 00-1
M577A3 and M1068A3 only	
Replacement.....	0267 00-1
Lead (circuit 50)	
Master switch to auxiliary power receptacle	
M113A3 , M1059A3, M1064A3, and M58	
Replacement.....	0268 00-1
Lead assembly	
Master switch panel dome lights	
M577A3 and M1068A3	
Replacement.....	0380 00-1
Utility outlet	
M577A3 and M1068A3	
Replacement.....	0377 00-1
Leads and terminals	
Battery	
M113A3 and M1059A3	
Replacement.....	0340 00-1
M577A3 and M1068A3	
Replacement.....	0341 00-1
M58	
Replacement.....	0345 00-1
Leads and terminals (left side)	
Battery	
M1064A3	
Replacement.....	0343 00-1
Leads and terminals (right side)	
Battery	
M1064A3	
Replacement.....	0344 00-1
Left Air Box	
Drain Check Valve and tubes	
Replace.....	0159 00-1
Left Bulkhead Radio Stowage Racks	
M577A3 and M1068A3	
Replacement.....	0577 00-1
Left front armor plate	
Replacement.....	0447 00-1
Left rear utility outlet/blower does not work	
M577A3 and M1068A3 only	0043 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Left Side Rack Base	
M1068A3	
Replacement.....	0616 00-1
Left side spall liners	
M113A3	
Replacement.....	0505 00-1
Left stop light - tail light	
M577A3 and M1068A3	
Replacement.....	0299 00-1
Repair 0300 00-1	
Left Table	
M577A3	
Replacement.....	0578 00-1
Lens	
Dome light	
All Except M577A3 and M1068A3	
Replacement.....	0313 00-1
Lever	
Throttle valve (TV)	
Replacement.....	0218 00-1
Lever and Cable	
Ramp Lock	
M577A3 and M1068A3	
Replacement.....	0525 00-1
Lid and Latches	
External Communication Box A11	
Replace (M1068A3)	0818 00-1
Lifting Eye	
Replacement.....	0444 00-1
Light	
Blackout marker	
Repair.....	0308 00-1
Replacement.....	0307 00-1
Dome	
All Except M577A3 and M1068A3	
Repair.....	0310 00-1
Replacement.....	0309 00-1
M577A3 and M1068A3	
Repair.....	0312 00-1
Replacement.....	0311 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Light Assemblies	
Fluorescent	
M1068A3	
Replacement.....	0825 00-1
Light Assembly	
Tent	
M577A3 and M1068A3	
Replacement.....	0318 00-1
Light Indicators	
Power Control Enclosure AC and DC	
M1068A3	
Replacement.....	0827 00-1
Light panel	
Instrument warning	
Replacement.....	0288 00-1
Light switch	
Main	
Replacement.....	0283 00-1
Lights	
Indicator	
Replacement.....	0286 00-1
Instrument Panel Warning	
Replacement.....	0287 00-1
Panel	
Replacement.....	0286 00-1
Warning Panel	
M58	
Replacement.....	0294 01-1
Warning panel	
All Except M58	
Replacement.....	0294 00-1
Linkage	
Accelerator	
Adjust	0214 00-1
Fuel Control	
Replacement.....	0217 00-1
Ramp	
M1064A3	
Replacement.....	0528 00-1
M113A3 and M1059A3	
Replacement.....	0526 00-1
M577A3 and M1068A3	
Replacement.....	0527 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Steering wheel	
Adjustment	0427 00-1
Replacement	0430 00-1
Litter Kit	
Initial Installation of	
M113A3	0741 00-1
Lock	
Interior	
Driver's Hatch	
Replacement	0534 00-1
Ramp	
M1064A3	
Adjustment	0523 00-1
M113A3 and M1059A3	
Adjustment	0521 00-1
M577A3 and M1068A3	
Adjustment	0522 00-1
Lock assembly	
Hopper hatch	
M58	
Replacement	0483 00-1
Locks and Seals	
Vision Block	
Driver's Hatch	
Replacement	0535 00-1
Loops	
Tool Box	
Replacement	0571 00-1
Lower Fuel Line	
Air Box Heater	
Replacement	0206 00-1
M	
M114 NBC Hoses and Brackets	
Replace	0783 00-1
M13 Air purifier and frame	
M1068A3 only	
Replace	0779 00-1
M13 NBC Filter	
Mount Bracket	

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
M577A3	
Replacement.....	0803 00-1
Switch	
M577A3	
Replacement.....	0803 00-1
M13 NBC Filter switch	
M1068A3 only	
Replace.....	0805 00-1
M13 NBC Filters and Hoses	
Replace	0786 00-1
M13 NBC Filters and hoses	
M1068A3 only	
Replace.....	0789 00-1
M13 NBC Heater	
Wiring Harness	
M577A3	
Replacement.....	0808 00-1
M13 NBC heater hoses	
M1068A3 only	
Replace.....	0790 00-1
M13 NBC Heater wiring harness	
M1068A3 only	
Replace.....	0809 00-1
M13 NBC Heaters	
M1068A3	
Replacement.....	0798 00-1
M13 Orifice connector assembly, bracket, and quick coupling half	
M1068A3 only	
Replace	0781 00-1
M14 NBC Cables and switch assembly	
M1059A3	
Replacement.....	0799 00-1
M14 NBC Heater	
Wiring Harness	
(M113A3 Ambulance)	
Replace.....	0807 00-1
M3 NBC Heater	
Bracket	
M113A3	
Replacement.....	0791 00-1
Control box	
M113A3	
Replace.....	0791 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Regulator	
M113A3	
Replacement.....	0791 00-1
Wiring Harness (M1059A3)	
Replace.....	0806 00-1
M3 NBC Heater Control Box	
M577A3	
Replacement.....	0792 00-1
M3 NBC Heater control box	
M1068A3	
Replacement.....	0793 00-1
M3 NBC Heater Hoses and Fittings (M113A3 Ambulance)	
Replace	0784 00-1
M3 NBC Heaters and Controllers	
M113A3 Ambulances	
Replacement.....	0795 00-1
M3 NBC Hoses and Fittings	
Replace	0788 00-1
M43 Unit Interface Wiring Harnesses	
Chemical Alarm	
M113A3	
Replacement.....	0923 00-1
M8A3 NBC Cables, Switch Assembly, and Brackets	
M577A3	
Replacement.....	0801 00-1
M8A3 NBC Hoses and Brackets	
Replace.....	0785 00-1, 0787 00-1
M8A3/M14 Orifice connector assembly, support, and quick coupling half	
M113A3, M1059A3, and M577A3 only	
Replace.....	0780 00-1
M8A3/M3 NBC Filter	
Switch Assembly (M1059A3)	
Replace.....	0804 00-1
Machine gun mount	
Commander's cupola	
M113A3, M1059A3, M58, and M1064A3	
Repair	0498 00-1
Replacement.....	0497 00-1
Machine gun mount stops	
Commander's cupola	
M1059A3	
Replacement.....	0499 00-1
Main light switch	

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Replacement	0283 00-1
Maintenance Allocation Chart (MAC)	0925 00-1
Malfunction/Symptom Index	0006 00-1
Map Board	
M1068A3	
Replacement	0618 00-1
M577A3	
Replacement	0580 00-1
Map Storage Box	
M1068A3	
Repair	0620 00-1
Replacement	0619 00-1
Master switch	
M113A3 , M1059A3, M1064A3, and M58 only	
Replacement	0262 00-1
Master switch on indicator doesn't light	0048 00-1
Master switch panel	
M113A3 , M1059A3, M1064A3, and M58	
Replacement	0260 00-1
M577A3 and M1068A3 only	
Replacement	0261 00-1
Master switch panel dome lights lead assembly	
M577A3 and M1068A3	
Replacement	0380 00-1
Master switch to auxiliary power receptacle lead (circuit 50)	
M113A3 , M1059A3, M1064A3, and M58	
Replacement	0268 00-1
Master switch to distribution box lead (circuit 49)	
M113A3 , M1059A3, M1064A3, and M58 only	
Replacement	0266 00-1
M577A3 and M1068A3 only	
Replacement	0267 00-1
Materials and Expendable Supplies List	0928 00-1
Meters	
Power Control Enclosure AC and DC	
M1068A3	
Replacement	0827 00-1
Modulator	
Throttle valve (TV)	
Replacement	0218 00-1
Mortar hatch covers	
M1064A3	
Replacement	0482 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Mortar hatch exterior catches and bumpers	
M1064A3	
Replacement.....	0480 00-1
Mortar hatch interior release mechanisms	
M1064A3	
Replacement.....	0481 00-1
Mount	
Dome light	
M577A3 and M1068A3	
Repair.....	0312 00-1
Driver's Hatch Night Vision	
M58	
Replacement.....	0537 01-1
Fire Extinguisher	
M1059A3	
Replacement.....	0896 00-1
Fire Extinguisher, Portable	
All Except M1068A3	
Replacement.....	0895 00-1
M1068A3	
Replacement/Repair	0897 00-1
M1068A3	
Replacement.....	0834 00-1
Shock absorber	
Replacement.....	0436 00-1
Track tension adjuster	
Replacement.....	0419 00-1
Mount and Bracket	
APIU Rack	
M1068A3	
Replacement.....	0813 00-1
Mount Bracket	
M13 NBC Filter	
M577A3	
Replacement.....	0803 00-1
Water/Ration Heater	
(M113A3 Only)	
Replace.....	0811 00-1
Mounting	
Pamphlet bag	
Repair	0442 00-1
Mounting Blocks	

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Fuel Valve	
All Except M577A3 and M1068A3	
Replacement.....	0199 00-1
Mounting Bracket	
Commander's Display (DVE)	
M58	
Replacement.....	0866 06-1
Driver's Display (DVE)	
M58	
Replacement.....	0866 02-1
Glow Plug Controller	
Replacement.....	0212 00-1
Mounting Bracket, and Switch	
NBC Orifice Connector Assembly	
M58	
Replacement.....	0916 00-1
Mounts	
Transmission	
Replacement.....	0385 00-1
Mounts and Ground Lead	
Instrument Panel	
All Except M58	
Replacement.....	0295 00-1
M58	
Replacement.....	0295 01-1
Mounts, Engine	
Replace.....	0158 00-1
Muffler	
Bracket	
Replace.....	0224 00-1
Muffler Extension and Cap	
Replacement.....	0223 00-1
N	
NATO Auxiliary power (slave) receptacle	
M577A3 and M1068A3 only	
Replacement.....	0264 00-1
NBC	
Air Purifier and Frame	
M113A3	
Replace.....	0775 00-1
M58	
Replacement.....	0914 00-1
Cable Assembly	

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
M58	
Removal/Installation	0917 00-1
Cable to Heaters, Air Purifier, and Switch	
M113A3	
Replacement.....	0800 00-1
Hose Assemblies	
M58	
Removal/Installation	0915 00-1
NBC Brackets	
M8A3	
M577A3	
Replacement.....	0801 00-1
NBC Cables	
M8A3	
M577A3	
Replacement.....	0801 00-1
NBC Filter	
Mount Bracket	
M577A3	
Replacement.....	0803 00-1
Switch	
Replacement.....	0803 00-1
Switch Assembly	
M113A3 and M113A3 Ambulance	
Replacement.....	0802 00-1
NBC Filter switch	
M13	
M1068A3 only	
Replace.....	0805 00-1
NBC Filters and hoses	
M13	
M1068A3 only	
Replace.....	0789 00-1
NBC Heater	
Hoses and Fittings	
Replace.....	0782 00-1
NBC Heater Control Box	
M3	
M577A3	
Replacement.....	0792 00-1
NBC Heater control box	
M3	
M1068A3	

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Replacement.....	0793 00-1
NBC Heater Hoses and Fittings	
Replace	0782 00-1
NBC Heater wiring harness	
M13	
M1068A3 only	
Replace.....	0809 00-1
NBC Heaters	
M13	
M1068A3	
Replacement.....	0798 00-1
NBC Heaters and Controllers	
M113A3	
Replacement.....	0794 00-1
M3	
M113A3 Ambulances	
Replacement.....	0795 00-1
NBC kit	
M14	
Air purifier and frame (M113A3)	
Replace.....	0774 00-1
M8A3	
Air purifier and frame with M3 heater kit (M1059A3)	
Replace.....	0778 00-1
NBC Air purifier and frame (M1059A3)	
Replace.....	0777 00-1
M8A3/M13	
Air purifier and frame (M577A3)	
Replace.....	0776 00-1
NBC Kits	
NBC Heaters and Mounts	
M1059A3	
Replacement.....	0797 00-1
M577A3	
Replacement.....	0796 00-1
NBC Orifice Connector Assembly	
Mounting Bracket, and Switch	
M58	
Replacement.....	0916 00-1
NBC Orifice Connector Assembly, Mounting Bracket, and Switch	
M58	
Replacement.....	0916 00-1
NBC Switch Assembly	

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
M8A3	
M577A3	
Replacement.....	0801 00-1
Night vision guard	
Driver's Hatch	
M58	
Replacement.....	0536 01-1
Night vision mount	
Driver's Hatch	
M58	
Replacement.....	0537 01-1
No AC power from inverters	
M1068A3 only	0109 00-1
No AC power from tent interface panel A5	
M1068A3 only	0091 00-1
No AC/DC input to ATCCS UPS power box	
M1068A3 only	0100 00-1
No data output from data panel A12	
M1068A3 only	0110 00-1
No data output from data panel A13	
M1068A3 only	0112 00-1
No DC output from DC power supply	
M1068A3 only	0108 00-1
No DC power from tent interface panel A5	
M1068A3 only	0092 00-1
No DC power to single point LAN ground box A15	
M1068A3 only	0097 00-1
No exterior lights operate	0029 00-1
No LAN output from data panel A12	
M1068A3 only	0111 00-1
No LAN output from data panel A13	
M1068A3 only	0113 00-1
No power from curbside AC power extension box A7	
M1068A3 only	0094 00-1
No power from curbside UPS power extension box A19	
M1068A3 only	0099 00-1
No power from DC power extension box A9 (all except jack J23)	
M1068A3 only	0095 00-1
No power from DC power extension box A9, jack J23 (JTIDS)	
M1068A3 only	0096 00-1
No power from roadside AC power extension box A6	
M1068A3 only	0093 00-1
No power from UPS power extension box A18	

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
M1068A3 only	0098 00-1
No power to AC circuits	
M1068A3 only	0107 00-1
No power to DC circuits	
M1068A3 only	0106 00-1
Nomenclature Cross-Reference List.....	0001 00-10
Non-skid plates	
M1064A3	
Replacement.....	0738 00-1
O	
Oil	
Cooler hoses, fittings, and mounting	
Transmission	
Replacement.....	0399 00-1
Filter element, engine, Replace.....	0165 00-1
Gauge rod/tube, engine, Replace.....	0164 00-1
Oil and Oil Filter Element	
Transmission	
Replacement.....	0398 00-1
Oil can bracket	
Replacement.....	0574 00-1
Oil drain tubes and bracket	
Transmission	
Replacement.....	0384 00-1
Oil high temperature switch	
Transmission	
Replacement.....	0322 00-1
Oil low pressure transmitter and hardware	
Engine	
Replacement.....	0320 00-1
Oil seal	
Differential	
Final drive	
Replacement.....	0404 00-1
Final drive differential	
Replacement.....	0404 00-1
Oil Tank Module	
Fog	
M1059A3	
Replacement.....	0753 00-1
On cargo hatch cover	
Spall liner	
M113A3	

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Replacement.....	0509 00-1
On ramp	
Spall liner	
M113A3	
Replacement.....	0512 00-1
On ramp door	
Spall liner	
M113A3	
Replacement.....	0511 00-1
On-off switches	
Instrument panel	
Replacement.....	0282 00-1
Operator's Intercommunication Set Cable	
M58	
Replacement.....	0894 00-1
Operator's Seat	
M1059A3	
Replacement/Repair.....	0567 00-1
Orifice connector assembly	
M8A3/M14	
M113A3, M1059A3, and M577A3 only	
Replace.....	0780 00-1
Orifice connector assembly, support, and quick coupling half	
M8A3/M14	
M113A3, M1059A3, and M577A3 only	
Replace.....	0780 00-1
Orifice connector support	
M8A3/M14	
M113A3, M1059A3, and M577A3 only	
Replace.....	0780 00-1
Orifice support quick coupling half	
M8A3/M14	
M113A3, M1059A3, and M577A3 only	
Replace.....	0780 00-1
Outlet Tube and Hoses	
Radiator	
Replacement.....	0233 00-1
P	
Pad	
Cushioning	
Replacement.....	0570 00-1
Track shoe	
Replacement.....	0424 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Pamphlet bag mounting	
Repair	0442 00-1
Panel	
A13, Roadside Data	
M1068A3	
Replacement.....	0835 00-1
Master switch	
M113A3, M1059A3, M1064A3, and M58	
Replacement.....	0260 00-1
M577A3 and M1068A3 only	
Replacement.....	0261 00-1
Warning Light	
All Except M58	
Replacement.....	0292 00-1
Warning light assembly	
All Except M58	
Replacement.....	0291 00-1
Panel Assembly	
Instrument	
All Except M58	
Replacement.....	0279 00-1
M58	
Replacement.....	0279 01-1
Panel lights	
Replacement	0286 00-1
Parking brake	
Adjustment	0408 00-1
Parking brake bracket	
Replacement	0331 00-1
Parking brake control cable assembly	
Replacement	0411 00-1
Parking brake control lever assembly	
Replacement	0412 00-1
Parking brake indicator malfunctions.....	0052 00-1
Parking brake switch	
Replacement	0331 00-1
Pedal	
Accelerator, Lower	
Replacement.....	0215 00-1
Service brake	
Upper and lower	
Replacement.....	0409 00-1
Pedal Assembly	

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Accelerator, Upper	
Replacement.....	0216 00-1
Personnel Heater	
Control Box Bracket	
M1068A3	
Replacement.....	0617 00-1
Duct	
Repair.....	0707 00-1
Duct and Hoses	
Replacement.....	0706 00-1
Intercom Box Bracket	
M1068A3	
Replacement.....	0617 00-1
Personnel heater	
Fuel filter	
Bracket M113A3, M1059A3, and M58	
Replacement.....	0698 00-1
M113A3, M1059A3, and M58	
Replacement.....	0698 00-1
Fuel pump	
M1064A3	
Replacement.....	0697 00-1
M577A3 and M1068A3	
Replacement.....	0696 00-1
Fuel pump hose	
M113A3, M1059A3, and M58	
Replacement.....	0689 00-1
Fuel pump to bulkhead connection hose	
M577A3 AND M1068A3	
Replacement.....	0692 00-1
Fuel pump to fuel shutoff valve hose	
M1064A3	
Replacement.....	0694 00-1
Personnel Heater Assembly	
All Except M1064A3	
Replacement.....	0703 00-1
M1064A3	
Replacement.....	0704 00-1
Repair	0705 00-1
Personnel Heater Fuel Filter	
Service	0680 00-1
Personnel Heater Fuel Pump	
M113A3, M1059A3, and M58	

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Replacement.....	0695 00-1
Service	0681 00-1
Personnel Heater Fuel Tube	
All Except M1064A3	
Replacement.....	0686 00-1
Personnel heater malfunctions	0086 00-1
Personnel Seats, backrests, cushions and belts	
M1059A3	
Replacement.....	0549 00-1
M1064A3	
Replacement.....	0550 00-1
Personnel seats, cushions, and belts	
M113A3	
Replacement.....	0546 00-1
M577A3	
Replacement.....	0547 00-1
Phone extension box A14 post(s) inoperative	
M1068A3 only	0114 00-1
Pin	
Shock absorber	
Replacement.....	0437 00-1
Pintle	
Towing	
Repair	0434 00-1
Replacement.....	0433 00-1
Pipes	
Coolant Heater Exhaust	
Replacement.....	0724 00-1
Front Bilge Pump	
Replace.....	0631 00-1
Rear Bilge Pump	
Replacement.....	0634 00-1
Plate	
Smoke grenade launcher	
M113A3 and M1059A3 only	
Replacement.....	0455 00-1
Plates	
Non-skid	
M1064A3	
Replacement.....	0738 00-1
Platform	
Commander's	
M113A3, M1059A3, M1064A3, and M58	

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Replacement/repair	0559 00-1
M577A3 and M1068A3	
Replacement/Repair	0564 00-1
Plug	
Hull drain	
Replacement	0451 00-1
Portable Fire Extinguisher Mount	
All Except M1068A3	
Replacement	0895 00-1
M1068A3	
Replacement/Repair	0897 00-1
Post	
Commander's	
M113A3, M1059A3, and M58	
Replacement	0560 00-1
M577A3 and M1068A3	
Replacement/Repair	0564 00-1
Commander's seat	
M1064A3	
Replacement	0561 00-1
Post Assembly	
Driver's Seat	
Replacement	0556 00-1
M113A3	
Replacement	0742 00-1, 0743 00-1
Power Cable	
Chemical Alarm	
M113A3	
Replacement	0919 00-1
DVE Sensor Set Assembly	
M58	
Replacement	0866 01-1
Water/Ration Heater	
(M113A3 Only)	
Replace	0810 00-1
Power cable	
Intervehicle	
M577A3 and M1068A3	
Replacement	0381 00-1
Power Control Enclosure	
AC and DC Light Indicators	
M1068A3	
Replacement	0827 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
AC and DC Meters	
M1068A3	
Replacement.....	0827 00-1
Bracket	
M1068A3	
Repair.....	0828 00-1
Circuit 44A Lead	
M1068A3	
Replacement.....	0829 00-1
Faceplate	
M1068A3	
Repair.....	0828 00-1
Power control enclosure A1 DC input/output inoperative	
M1068A3 only.....	0090 00-1
Power Control Enclosure Assembly	
A1	
M1068A3	
Replacement.....	0826 00-1
Power Distribution Box A3	
M1068A3	
Replacement/Repair.....	0831 00-1
Power Distribution Cable (W3)	
M1068A3	
Replacement.....	0837 00-1
Power Entry Box Assembly A4	
M1068A3	
Replacement.....	0832 00-1
Power Extension	
Box A18, AC	
M1068A3	
Replacement.....	0836 00-1
Power Extension Box A18 and Bracket	
M1068A3	
Replacement.....	0836 00-1
Power Harness	
Glow Plug	
Replacement.....	0211 00-1
Power Plant	
Block.....	0157 00-1
Hydraulic Hoses	
Replacement.....	0668 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Power plant access panel	
Driver's	
Replacement.....	0441 00-1
Power plant assembly	
Removal/Installation	0156 00-1
Power plant bottom access cover	
Replacement.....	0450 00-1
Power plant door	
All except M113A3	
Replacement.....	0471 00-1
M113A3	
Replacement.....	0470 00-1
Repair.....	0472 00-1
Power plant door combat lock	
Replacement.....	0473 00-1
Power plant grill screen	
Replacement.....	0468 00-1
Power plant grill support arm	
Replacement.....	0467 00-1
Power plant grille	
Raise and lower.....	0464 00-1
Removal/installation.....	0465 00-1
Power plant rear access panels	
Repair/Replacement	0439 00-1
Power Plant Sling	
Inspect	0673 00-1
Power Supply	
Storage Box Assembly	
M1068A3	
Replacement/Repair	0824 00-1
Power supply	
Solid state infrared	
Replacement.....	0297 00-1
Power Supply Cable	
Driver's Vision Enhancer (DVE) AN/VAS-5	
M58	
Replacement.....	0866 04-1
Power supply cable assembly	
Driver's night vision (DNV) (AN/VVS-2)	
All Except M58	
Replacement.....	0368 00-1
Pressure switch	
Differential	

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Bypass plug	
Replacement.....	0401 00-1
Transmission oil	
Replacement.....	0400 00-1
Preventive Maintenance Checks and Services (PMCS), Including Lubrication Instructions	
Annual	0155 00-1
Semi-Annual.....	0155 00-1
Principles of Operation	
Auxiliary Automotive System.....	0003 00-2
Special Equipment.....	0003 00-3
Winterization Equipment	0003 00-3
Printer Mount	
Replace/Repair	0823 00-1
Propeller shaft and universal joints	
Replacement.....	0405 00-1
Pulley	
Coolant Pump Idler	
Replacement.....	0240 00-1
Ventilating Fan Drive	
Replacement.....	0244 00-1
Pulse Tachometer	
STE/ICE	
Replacement.....	0867 00-1
Pump	
Coolant Heater	
Replacement.....	0731 00-1
Engine Coolant	
Replacement.....	0241 00-1
Hydraulic	
Ramp	
Replacement.....	0655 00-1
Pump Assembly	
Fog Oil	
(M1059A3 Only)	
Replace.....	0763 00-1
Pump Unit	
Coolant Heater	
Replace.....	0728 00-1
Push-pull control assembly, bracket, links, and pins (cable-activated lock)	
Replacement.....	0429 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Q	
Quick coupling half	
M13 Orifice	
M1068A3 only	
Replace.....	0781 00-1
M8A3/M14 Orifice support	
M113A3, M1059A3, and M577A3 only	
Replace.....	0780 00-1
Quick release pin and lanyard	
Replacement.....	0431 00-1
Quick release pins and plates	
Spall liner	
M113A3	
Repair.....	0506 00-1
R	
Rack	
Radio	
M58	
Replace.....	0891 00-1
Radio stowage	
M1064A3	
Replacement.....	0609 00-1
Rifle	
M1064A3	
Replacement.....	0612 00-1
Rack Assembly	
Rack Base	
Right Side	
M1068A3	
Replacement.....	0622 00-1
Racks	
Left Bulkhead Radio Stowage	
M577A3 and M1068A3	
Replacement.....	0577 00-1
Radiac wire harness	
M113A3, M577A3, and M1068A3	
Replacement.....	0376 00-1
Radiator	
Clean	0228 00-1
Radiator access door	
Replacement.....	0469 00-1
Radiator and Parts	
Replacement.....	0229 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Radiator Outlet Tube and Hoses	
Replacement	0233 00-1
Radio Operator's Seat	
M1068A3 and M58	
Replacement/Repair	0568 00-1
Radio Rack	
M58	
Replace	0891 00-1
Radio Stowage Rack	
Right Front	
M577A3	
Replacement	0579 00-1
Radio Stowage Racks	
Left Bulkhead	
M577A3 and M1068A3	
Replacement	0577 00-1
Radio(s) don't work	0044 00-1
Ramp	
Bracket	
M113A3, M577A3, and M1068A3	
Replacement	0516 00-1
Control Valve	
Elbow	
Replacement	0663 00-1
Hose	
Replacement	0663 00-1
Replacement	0660 00-1
Control Valve (with Internal Relief Valve) and Fittings	
Replacement	0661 00-1
Control Valve and Fittings (with External Relief Valve)	
Replacement	0659 00-1
Cylinder	
Replacement	0656 00-1
Cylinder Breather Hose	
All Except M1064A3	
Replacement	0666 00-1
M1064A3	
Replacement	0667 00-1
Door	
Stop Bracket	
Replacement	0517 00-1
External Relief Valve	
Replacement	0660 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Fittings with Ramp Control Valve (Internal Relief Valve)	
Replacement.....	0660 00-1
Hose	
Bulkhead to Cylinder	
Replacement.....	0665 00-1
Hydraulic Pump	
Replacement.....	0655 00-1
Linkage	
M1064A3	
Replacement.....	0528 00-1
M113A3 and M1059A3	
Replacement.....	0526 00-1
M577A3 and M1068A3	
Replacement.....	0527 00-1
Lock	
M1064A3	
Adjustment.....	0523 00-1
M113A3 and M1059A3	
Adjustment.....	0521 00-1
M577A3 and M1068A3	
Adjustment.....	0522 00-1
Vision Port and Shield	
M58	
Replacement/Repair.....	0586 00-1
Ramp Door	
Handles	
Replacement.....	0519 00-1
Hook	
Replacement.....	0518 00-1
Seal	
Replacement.....	0520 00-1
Shaft	
Replacement.....	0519 00-1
Spring	
Replacement.....	0518 00-1
Ramp door switch and mount	
M577A3 and M1068A3	
Replacement.....	0335 00-1
Ramp drain plugs	
Replacement.....	0515 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Ramp Lock	
Handle and Arms	
All Except M577A3 and M1068A3	
Replacement.....	0524 00-1
Lever and Cable	
M577A3 and M1068A3	
Replacement.....	0525 00-1
Ramp operation is slow or sluggish.....	0083 00-1
Ramp seal	
Replacement.....	0514 00-1
Ramp will not lower	0082 00-1
Ramp will not raise or free falls	0084 00-1
Range controller	
Bracket	
Used with solenoid-activated steering lock	
Replacement.....	0386 00-1
Transmission	
Used with cable-activated steering lock	
Replacement.....	0387 00-1
Used with solenoid-activated steering lock	
Replacement.....	0386 00-1
Range controller lamp	
Transmission	
Replacement.....	0388 00-1
Range controller switch	
Transmission	
Replacement.....	0389 00-1
Rear access panels	
Power plant	
Repair/Replacement.....	0439 00-1
Rear Armor	
M113A3	
Replacement.....	0751 00-1
Rear Bilge Pump	
Replacement.....	0635 00-1
Strainer	
Replacement.....	0635 00-1
Rear Bilge Pump Pipes	
Replacement.....	0634 00-1
Rear compartment air ventilator	
Replacement.....	0454 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Rear dome light switch	
M577A3 and M1068A3	
Replacement.....	0315 00-1
Rear external stowage frame	
M1068A3	
Replacement.....	0626 00-1
Rear main wiring harness	
M1064A3	
Replacement.....	0364 00-1
M1068A3	
Replacement.....	0365 00-1
M113A3, M1059A3, and M58	
Replacement.....	0362 00-1
M577A3	
Replacement.....	0363 00-1
Rear tiedown plates	
Replacement.....	0445 00-1
Rear upper hull spall liner	
M113A3	
Replacement.....	0510 00-1
Rear utility outlet receptacles	
M577A3 and M1068A3	
Replacement.....	0378 00-1
Rear utility receptacle circuit breakers	
M577A3 and M1068A3 only	
Replacement.....	0276 00-1
Receptacle	
Auxiliary power (slave)	
M113A3 , M1059A3, M1064A3, and M58 only	
Replacement.....	0263 00-1
NATO Auxiliary power (slave)	
M577A3 and M1068A3 only	
Replacement.....	0264 00-1
Receptacles	
Rear utility outlet	
M577A3 and M1068A3	
Replacement.....	0378 00-1
Reel holder assembly	
Cable	
M1064A3	
Repair.....	0604 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Reel holder assembly, cable	
M1064A3	
Replacement.....	0603 00-1
References	0924 00-1
Refill Tray Bracket	
Chemical Alarm	
M113A3	
Replacement.....	0922 00-1
Regulator	
Voltage	
Adjustment.....	0256 00-1
Regulator assembly	
Replacement.....	0257 00-1
Release	
Trim vane	
Repair	0463 00-1
Replacement.....	0462 00-1
Release mechanisms	
Mortar hatch interior	
M1064A3	
Replacement.....	0481 00-1
Restriction indicator	
Air cleaner	
Replace.....	0171 00-1
Retainer	
Batteries	
M1064A3	
Replacement.....	0349 00-1
Repair Parts, Special Tools, TMDE, and Support Equipment.....	0004 00-1
Rifle Brackets	
Replacement.....	0573 00-1
Rifle Rack	
M1064A3	
Replacement.....	0612 00-1
Right Equipment Rack	
Brackets and Mounts	
M1068A3	
Replacement.....	0814 00-1
Right Forward Table	
M577A3	
Replacement.....	0581 00-1
Right front armor plate	
Replacement.....	0448 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Right Front Radio Stowage Rack	
M577A3	
Replacement.....	0579 00-1
Right headlight wiring harness	
Replace	0373 00-1
Right rear utility outlet/admittance buzzer works improperly	
M577A3 and M1068A3 only	0042 00-1
Right Rearward Table	
M577A3	
Replacement.....	0582 00-1
Right Side Base Extension	
M1068A3	
Replacement.....	0623 00-1
Right side spall liners	
M113A3	
Replacement.....	0504 00-1
Right stop light - tail light	
M577A3	
Replacement.....	0301 00-1
Repair.....	0302 00-1
Road wheel	
T130	
Replacement.....	0426 00-1
T150	
Replacement.....	0426 01-1
Road wheel hub	
Replacement.....	0416 00-1
Road wheel support arm, bearings, and seals	
Replacement.....	0415 00-1
Roadside Data Panel A13	
M1068A3	
Replacement.....	0835 00-1
S	
Safety pin stowage block	
Commander's cupola	
M113A3, M1059A3, M58, and M1064A3	
Replacement.....	0495 00-1
Safety Relief Valve	
Fittings	
Replacement.....	0662 00-1
Hose	
Replacement.....	0662 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Tube	
Replacement.....	0662 00-1
Sampling valve	
Transmission oil	
Replacement.....	0400 00-1
Schematic	
All except M577A3 and M1068A3	
Engine fuel system.....	0009 00-1
Bilge pump.....	0078 00-1
Coolant heater.....	0087 00-1
Engine charging system.....	0007 00-1
Engine starter circuit.....	0011 00-1
Indicators.....	0046 00-1
STE/ICE.....	0136 00-1
Electrical.....	0027 00-1
(cable-activated lock)	
Steering lock.....	0075 00-1
Engine air box heater.....	0013 00-1
M577A3 and M1068A3	
Engine fuel system.....	0010 00-1
Personnel heater.....	0085 00-1
Ramp.....	0081 00-1
(solenoid-activated lock)	
Steering lock.....	0074 00-1
Transmission.....	0060 00-1
Seal	
Ramp	
Replacement.....	0514 00-1
Ramp Door	
Replacement.....	0520 00-1
Seals	
Cargo hatch	
M113A3 and M1059A3	
Replacement.....	0478 00-1
Idler wheel arm	
Replacement.....	0418 00-1
Road wheel support	
Replacement.....	0415 00-1
Seat	
Commander's	
M1064A3	
Replacement.....	0561 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
M1068A3	
Replacement/repair	0566 00-1
M113A3, M1059A3, and M58	
Replacement.....	0560 00-1
M113A3, M1059A3, M1064A3, and M58	
Repair	0562 00-1
Commander's Jump	
M113A3	
Replacement.....	0563 00-1
Driver's	
Post assembly	
Repair	0557 00-1
Repair	0552 00-1
Replacement.....	0551 00-1
Operator's	
M1059A3	
Replacement/Repair	0567 00-1
Personnel	
M1059A3	
Replacement.....	0549 00-1
M1064A3	
Replacement.....	0550 00-1
Radio Operator's	
M58	
Replacement/Repair	0568 00-1
Seats	
Personnel	
M113A3	
Replacement.....	0546 00-1
M577A3	
Replacement.....	0547 00-1
Sensors	
Switches	
Replace.....	0321 01-1
Sensor Set Assembly Adapter	
AN/VAS-5 Driver's Night Vision Enhancer (DVE)	
M58	
Replacement.....	0866 05-1
Service and infrared headlights	
Repair	0304 00-1
Replacement	0303 00-1
Service and/or black out stop lights malfunction	0033 00-1
Service and/or parking brake won't hold carrier.....	0064 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Service brake control linkage	
Adjustment	0407 00-1
Replacement	0410 00-1
Service brake pedal	
Upper and lower	
Replacement	0409 00-1
Service headlights don't work	0031 00-1
Service tallight doesn't work	0035 00-1
Service Upon Receipt	0154 00-1
Shaft	
Fuel Control	
Replacement	0217 00-1
Shelf Assembly	
Right Side	
M1068A3	
Replacement	0621 00-1
Shield	
External Handle	
M1064A3	
Replacement	0903 00-1
M113A3 and M1059A3	
Replacement	0901 00-1
M577A3 and M1068A3	
Replacement	0902 00-1
Ramp Vision Port	
M58	
Replacement/Repair	0586 00-1
Shields, Armor, Commander's Cupola	
M113A3 and M1064A3	
Replacement	0747 00-1
Shock absorber	
Replacement	0435 00-1
Shock absorber mount	
Replacement	0436 00-1
Shock absorber pin	
Replacement	0437 00-1
Shunt	
STE/ICE	
M1064A3	
Replacement	0873 00-1
M113A3 and M1059A3	
Replacement	0870 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
M577A3 and M1068A3 Replacement.....	0871 00-1
Shunt Guard	
STE/ICE	
M113A3 and M1059A3 Replacement.....	0868 00-1
Shut-off Valve Assembly	
Fuel	
M113A3, M1059A3, and M58 Replacement.....	0684 00-1
Side Armor	
M113A3 Replacement.....	0750 00-1
Signal Patch Panel Box A10 Replace	0816 00-1
Sling	
Power Plant	
Inspect	0673 00-1
Smoke Generator	
Adapter Access Plate to Generator Electrical Cable Assembly M1059A3 Replacement.....	0761 00-1
Breather Hose Assembly M1059A3 Replacement.....	0754 00-1
Control Panel Assembly M1059A3 Replace.....	0756 00-1
Internal Cable Assembly M1059A3 Replacement.....	0760 00-1
M1059A3 Replacement.....	0755 00-1
Power Supply Cable Assembly M1059A3 Replacement.....	0757 00-1
Support Bracket M1059A3 Replacement.....	0755 00-1
Smoke Generator (M1059A3)	
Adapter Access Plate	
Gasket	
Replace.....	0766 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Adapter Access Plate to Cover Assembly Air Hose	
Replace.....	0768 00-1
Air Hose	
Compressor Reservoir to Access Plate	
Replace.....	0767 00-1
Armor	
Replace.....	0771 00-1
Fuel Can Lid Assembly	
Replace.....	0764 00-1
Fuel Filter	
Replace.....	0773 00-1
Fuel Lines and Guards	
Replace.....	0765 00-1
Glow Plug Cable Assembly	
Replace.....	0772 00-1
Water Separator	
Replace.....	0773 00-1
Smoke grenade launcher guard, plate, and base	
M113A3 and M1059A3 only	
Replacement.....	0455 00-1
Smoke grenade launcher wiring harness	
M113A3 , M1059A3, and M58	
Replacement.....	0366 00-1
Smoke grenade launcher(s) malfunction	
M113A3 and M1059A3	0045 00-1
Solenoid, bracket, links, and pins (solenoid-activated lock)	
Steering lock	
Replacement.....	0428 00-1
Solenoid-activated steering lock malfunctions	0076 00-1
Solid state infrared power supply	
Replacement.....	0297 00-1
Spall liner	
Rear upper hull	
M113A3	
Replacement.....	0510 00-1
Spall liner and bracket	
Forward	
M113A3	
Replacement.....	0507 00-1
Spall liner on cargo hatch cover	
M113A3	
Replacement.....	0509 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Spall liner on ramp	
M113A3	
Replacement.....	0512 00-1
Spall liner on ramp door	
M113A3	
Replacement.....	0511 00-1
Spall liner quick release pins and plates	
M113A3	
Repair.....	0506 00-1
Spall liners	
Forward upper right and left side	
M113A3	
Replacement.....	0508 00-1
Left side	
M113A3	
Replacement.....	0505 00-1
Right side	
M113A3	
Replacement.....	0504 00-1
Special purpose cable	
Instrument panel	
Replacement.....	0290 00-1
Speedometer	
Cable	
Adapter	
Replace.....	0860 00-1
Replace.....	0860 00-1
Service.....	0858 00-1
Replace.....	0859 00-1
Speedometer Cable	
Repair.....	0861 00-1
Speedometer malfunctions.....	0115 00-1
Spring Tensioner	
Idler Arm	
Replacement.....	0246 00-1
Start switch	
Engine	
Replacement.....	0284 00-1
Starter	
Replace.....	0259 00-1
Starter relay switch	
Replacement.....	0258 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
STE/ICE	
Pulse Tachometer	
Replacement.....	0867 00-1
Shunt	
M1064A3	
Replacement.....	0873 00-1
M113A3 and M1059A3	
Replacement.....	0870 00-1
M577A3 and M1068A3	
Replacement.....	0871 00-1
Shunt Guard	
M113A3 and M1059A3	
Replacement.....	0868 00-1
STE/ICE Crew Wiring Harness	
M1064A3	
Replacement.....	0881 00-1
M113A3 and M1059A3	
Replacement.....	0878 00-1
M577A3 and M1068A3	
Replacement.....	0879 00-1
STE/ICE Distribution Box	
M1064A3	
Replacement.....	0877 00-1
M113A3 and M1059A3	
Replacement.....	0874 00-1
M577A3 and M1068A3	
Replacement.....	0875 00-1
STE/ICE Engine Wiring Harness	
Replacement.....	0882 00-1
STE/ICE test set to DCA 6	
Hook up.....	0117 00-1
Remove.....	0117 00-1
Steering	
Transmission	
Adjust.....	0393 00-1
Steering lock solenoid, bracket, links, and pins (solenoid-activated lock)	
Replacement.....	0428 00-1
Steering Lock Switch	
Replacement.....	0330 00-1
Steering Lock Switch Wiring Harness	
All Except M58	
Replacement.....	0367 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
M58	
Replacement.....	0367 01-1
Steering locked indicator malfunctions	0054 00-1
Steering support, brackets, and shaft	
Replacement.....	0432 00-1
Steering wheel linkage	
Adjustment.....	0427 00-1
Replacement.....	0430 00-1
Stencils	
M1059A3	0640 00-1
M1064A3	0641 00-1
M1068A3	0642 00-1
M113A3	0636 00-1
M577A3	0637 00-1
M58	0643 00-1
Stop light - tail light	
Left	
M577A3 and M1068A3	
Replacement.....	0299 00-1
Repair.....	0300 00-1
Right	
M577A3	
Replacement.....	0301 00-1
Repair.....	0302 00-1
Stop light - tail light and guards	
All Except M577A3 and M1068A3	
Replacement.....	0298 00-1
Stop switch	
Replacement.....	0332 00-1
Storage Box Assembly	
Power Supply	
M1068A3	
Replacement/Repair	0824 00-1
Stowage	
Driver's Night Vision (AN/VVS-2)	
All Except M58	
Replacement.....	0572 00-1
Stowage Box	
M113A3	
Replacement.....	0750 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Stowage box	
Grenade	
M1064A3	
Replacement.....	0610 00-1
Periscope	
M1064A3	
Replacement.....	0611 00-1
Stowage Bracket	
AN/VAS-5 Driver's Vision Enhancer	
M58	
Replacement.....	0866 03-1
Track shoe.....	0575 01-1
Sight Extension Arm	
M1064A3	
Replacement.....	0613 00-1
Stowage Brackets for W1, W2, and NATO Slave Cables	
M1068A3 and M577A3	
Replacement.....	0626 01-1
Stowage frame	
Rear external	
M1068A3	
Replacement.....	0626 00-1
Stowage Rack	
Right Front Radio	
M577A3	
Replacement.....	0579 00-1
Stowage Racks	
Left Bulkhead Radio	
M577A3 and M1068A3	
Replacement.....	0577 00-1
Strainer	
Front Bilge Pump	
Replace.....	0632 00-1
Rear Bilge Pump	
Replacement.....	0635 00-1
Strainer Parts	
Filler Cap	
All Except M577A3 and M1068A3	
Replacement.....	0184 00-1
M577A3 and M1068A3	
Replacement.....	0185 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Straps	
Webbing	
Replacement.....	0569 00-1
Support	
Antenna	
M58	
Replacement.....	0602 00-1
M8A3/M14 Orifice connector	
M113A3, M1059A3, and M577A3 only	
Replace.....	0780 00-1
Support, brackets, and shaft	
Steering	
Replacement.....	0432 00-1
Switch	
Blower	
M577A3 and M1068A3 only	
Replacement.....	0278 00-1
Differential Pressure	
Replacement.....	0401 00-1
Dome blackout light bypass	
M577A3 and M1068A3	
Replacement.....	0317 00-1
Engine start	
Replacement.....	0284 00-1
Flame Detector	
Adjust.....	0727 00-1
Flame Detetor	
Coolant Heater	
Replacement.....	0734 00-1
Front dome light	
M577A3 and M1068A3	
Replacement.....	0314 00-1
Fuel Filter Differential Pressure	
Replacement.....	0328 00-1
Fuel selector	
M577A3 and M1068A3 only	
Replacement.....	0277 00-1
Generator field pressure	
Replacement.....	0323 00-1
Headlight high beam selector	
Replacement.....	0333 00-1
Horn	
Replacement.....	0293 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
M58	
Replacement.....	0293 01-1
Light	
Main	
Replacement.....	0283 00-1
M13 NBC Filter	
M577A3	
Replacement.....	0803 00-1
Parking brake	
Replacement.....	0331 00-1
Rear dome Light	
M577A3 and M1068A3	
Replacement.....	0315 00-1
Rear dome light	
M577A3 and M1068A3	
Replacement.....	0315 00-1
Starter relay	
Replacement.....	0258 00-1
Steering lock	
Replacement.....	0330 00-1
Stop	
Replacement.....	0332 00-1
Thermostatic Fan Speed	
Replacement.....	0231 00-1
Transmission Oil	
Replacement.....	0400 00-1
Transmission oil high temperature	
Replacement.....	0322 00-1
Transmission range controller	
Replacement.....	0389 00-1
Switch and buzzer	
Admittance	
M577A3 and M1068A3	
Replacement.....	0334 00-1
Switch and mount	
Ramp door	
M577A3 and M1068A3	
Replacement.....	0335 00-1
Switch Assembly	
M8A3/M3 NBC Filter (M1059A3)	
Replace.....	0804 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
NBC Filter	
M113A3 and M113A3 Ambulance	
Replacement.....	0802 00-1
Switch to gauge lead	
Fuel select	
All Except M577A3 and M1068A3	
Replacement.....	0281 00-1
Switches	
On-off	
Instrument panel	
Replacement.....	0282 00-1
T	
Table	
Left	
M577A3	
Replacement.....	0578 00-1
Right forward	
M577A3	
Replacement.....	0581 00-1
Right Rearward	
M577A3	
Replacement.....	0582 00-1
Tachometer	
Cable	
Repair.....	0865 00-1
Replace.....	0864 00-1
Service.....	0858 00-1
Engine adapter	
Replace.....	0863 00-1
Pulse	
STE/ICE	
Replacement.....	0867 00-1
Replace	0862 00-1
Tachometer malfunctions	0116 00-1
Taillight	
Bracket	
M1068A3	
Repair	0625 00-1
Replacement.....	0625 00-1
Wiring Harness	
M1068A3	
Repair	0625 00-1
Replacement.....	0625 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Tank	
Auxiliary	
Replacement.....	0230 00-1
Tank Module	
Fog Oil	
M1059A3	
Replacement.....	0753 00-1
Teleposts and cover	
Replacement.....	0296 00-1
Tent	
Frame mounts	
M577A3	
Replacement.....	0628 00-1
M577A3	
Replacement.....	0627 00-1
Tent Interface Panel	
Box Assembly A5	
M1068A3	
Replacement.....	0833 00-1
Tent Light Assembly	
M577A3 and M1068A3	
Replacement.....	0318 00-1
Terminal Blocks TB1 and TB2	
Inverter Housing A2	
M1068A3	
Replacement.....	0830 00-1
Terminals and leads	
Battery	
M113A3 and M1059A3	
Replacement.....	0340 00-1
M577A3 and M1068A3	
Replacement.....	0341 00-1
M58	
Replacement.....	0345 00-1
Terminals and leads (left side)	
Battery	
M1064A3	
Replacement.....	0343 00-1
Terminals and leads (right side)	
Battery	
M1064A3	
Replacement.....	0344 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Test 10 diagnostic troubleshooting	
STE/ICE	0140 00-1
Test 10 engine RPM	
STE/ICE	0118 00-1
Test 11 diagnostic troubleshooting	
STE/ICE	0140 00-1
Test 12 diagnostic troubleshooting	
STE/ICE	0140 00-1
Test 13 diagnostic troubleshooting	
STE/ICE	0140 00-1
Test 24 fuel supply pressure	
STE/ICE	0119 00-1
Test 24 fuel supply pressure diagnostic troubleshooting	
STE/ICE	0143 00-1
Test 25 fuel return pressure	
STE/ICE	0120 00-1
Test 25 fuel return pressure diagnostic troubleshooting	
STE/ICE	0144 00-1
Test 26 fuel filter pressure drop	
STE/ICE	0121 00-1
Test 26 fuel filter pressure drop diagnostic troubleshooting	
STE/ICE	0145 00-1
Test 30 turbocharger outlet pressure	
STE/ICE	0122 00-1
Test 30 turbocharger outlet pressure diagnostic troubleshooting	
STE/ICE	0146 00-1
Test 32 air box pressure	
STE/ICE	0123 00-1
Test 32 air box pressure diagnostic troubleshooting	
STE/ICE	0147 00-1
Test 67 battery voltage	
STE/ICE	0124 00-1
Test 68 starter motor voltage	
STE/ICE	0125 00-1
Test 68 starter motor voltage diagnostic troubleshooting	
STE/ICE	0148 00-1
Test 69 starter negative cable voltage drop	
STE/ICE	0126 00-1
Test 69 starter negative cable voltage drop diagnostic troubleshooting	
STE/ICE	0149 00-1
Test 70 starter solenoid voltage	
STE/ICE	0127 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Test 70 starter solenoid voltage diagnostic troubleshooting	
STE/ICE	0150 00-1
Test 71 starter current (average)	
STE/ICE	0128 00-1
Test 72 starter current (first peak)	
STE/ICE	0129 00-1
Test 73 battery resistance	
STE/ICE	0130 00-1
Test 74 starter circuit resistance	
STE/ICE	0131 00-1
Test 75 battery resistance change (pack)	
STE/ICE	0130 00-1
Test 80 battery current	
STE/ICE	0132 00-1
Test 82 generator output voltage	
STE/ICE	0133 00-1
Test 82 generator output voltage diagnostic troubleshooting	
STE/ICE	0151 00-1
Test 83 generator field voltage	
STE/ICE	0134 00-1
Test 83 generator field voltage diagnostic troubleshooting	
STE/ICE	0152 00-1
Test 84 generator negative cable voltage drop	
STE/ICE	0135 00-1
Test 84 generator negative cable voltage drop diagnostic troubleshooting	
STE/ICE	0153 00-1
Theory of Operation	0003 00-1
Thermostat	
Replacement	0237 00-1
Thermostatic Fan Speed Switch	
Replacement	0231 00-1
Throttle Valve (TV) Modulator	
Adust	0213 00-1
Tiedown plates	
Rear	
Replacement	0445 00-1
Tool Box Loops	
Replacement	0571 00-1
Torsion bar	
Replacement	0413 00-1
Torsion bar anchor	
Replacement	0414 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Tow Pintle Extender Assembly	
M113A3	
Repair	0811 02-1
Tow Pintle Extender Kit	
M113A3	
Installation	0811 01-1
Tow Start Control Assembly	
Replacement	0391 00-1
Tow Start Control Cable Assembly	
Adjustment	0390 00-1
Tow Start Control Cover	
Replacement	0392 00-1
Towing Pintle	
Repair	0434 00-1
Replacement	0433 00-1
Track	
T130	
Replacement	0422 00-1
T150	
Replacement	0422 01-1
Track Drive Sprocket and Track Assemblies	
Reverse	0419 01-1
Track pad	
Track shoe	0424 01-1,0575 01-1
T150	
Replacement	0423 01-1
Track shoe pad	
T150	
Replacement	0424 01-1
Track shoe assembly	
Replacement	0423 00-1
Track shoe pad	
Replacement	0424 00-1
Track shoe stowage basket	0575 01-1
Track cover	
Replacement	0438 00-1
Track tension adjuster and mount	
Replacement	0419 00-1
Trailer harness	
Replacement	0375 00-1
Trailer lights don't work	0036 00-1
Trans filter clogged indicator malfunctions	0059 00-1
Trans oil hi temp indicator malfunctions	0057 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Transducer	
Air box pressure	
Replacement.....	0327 00-1
Fuel return pressure	
Replacement.....	0325 00-1
Fuel supply pressure	
Replacement.....	0324 00-1
Turbo outlet pressure	
Replacement.....	0326 00-1
Transmission brake adjustment	
Check	0406 00-1
Transmission brakes	
Adjust	0394 00-1
Transmission controller wiring harness	
Replacement.....	0361 00-1
Transmission does not downshift in 1-4 position.....	0066 00-1
Transmission does not hold 1st position	0067 00-1
Transmission does not hold 2nd position	0068 00-1
Transmission does not hold 3rd position	0069 00-1
Transmission does not pivot steer	0071 00-1
Transmission does not reverse	0070 00-1
Transmission high temp indicator comes on	0072 00-1
Transmission low lube indicator comes on	0073 00-1
Transmission Mounts	
Replacement.....	0385 00-1
Transmission oil	
Cooler hoses, fittings, and mounting	
Replacement.....	0399 00-1
Level dipstick, filler tube, and adapter	
X200-4	
Replacement.....	0395 00-1
X200-4A	
Replacement.....	0396 00-1
Transmission oil and oil filter element	
Replacement.....	0398 00-1
Transmission oil drain tubes and bracket	
Replacement.....	0384 00-1
Transmission oil high temperature switch	
Replacement.....	0322 00-1
Transmission oil low pressure indicator malfunctions	0056 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Transmission oil sampling valve and pressure switch	
Replacement	0400 00-1
Transmission oil supply and return hoses	
Replacement	0251 00-1
Transmission range controller lamp	
Replacement	0388 00-1
Transmission range controller switch	
Replacement	0389 00-1
Transmission range controller/bracket	
Used with solenoid-activated steering lock	
Replacement	0386 00-1
Transmission steering	
Adjust	0393 00-1
Transmission wiring harness	
Replacement	0360 00-1
Transmission won't upshift or shifts erratically in 1-4 position.....	0065 00-1
Transmitter	
Coolant temperature	
Replacement	0321 00-1
Fuel quantity	
All except M577A3 and M1068A3	
Replacement.....	0190 00-1
M577A3 and M1068A3	
Replacement.....	0191 00-1
Trim Vane	
Replacement	0458 00-1
Trim vane	
All Except M58	
Repair	0459 00-1
M58	
Repair	0460 00-1
Trim vane control linkage	
Repair	0461 00-1
Trim vane release	
Repair	0463 00-1
Replacement	0462 00-1
Tube	
Bulkhead Connection to Personnel Heater	
M577A3 and M1068A3	
Replacement.....	0687 00-1
External Cable	
Replacement	0905 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Fire Extinguisher Cylinder Discharge	
Replacement.....	0899 00-1
Fire Extinguisher Turbine Cylinder Discharge	
M58	
Replacement.....	0900 00-1
From ramp control valve to bulkhead	
Replacement.....	0664 00-1
Fuel return	
M1064A3	
Replacement.....	0197 00-1
M113A3 , M1059A3, and M58	
Replacement.....	0195 00-1
M577A3 and M1068A3	
Replacement.....	0196 00-1
Fuel Vent	
M577A3 and M1068A3	
Replacement.....	0198 00-1
Personnel heater	
M577A3 and M1068A3	
Replacement.....	0700 00-1
Personnel Heater Fuel	
All Except M1064A3	
Replacement.....	0686 00-1
Thermostat	
Replacement.....	0238 00-1
Turbine access door	
M58	
Replacement.....	0485 00-1
Turbine access door gasket	
M58	
Replacement.....	0486 00-1
Turbine access door hinges	
M58	
Replacement.....	0487 00-1
Turbo outlet pressure transducer	
Replacement.....	0326 00-1
Turnbuckle parts generator	
Replacement.....	0254 00-1
U	
Unsafe ramp	
Lower	0513 00-1
Raise	0513 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Upper and lower service brake pedal	
Replacement	0409 00-1
Upper Coolant Hose and Tube	
Replacement	0232 00-1
Utility outlet lead assembly	
M577A3 and M1068A3	
Replacement	0377 00-1
Utility outlet receptacle	
Replacement	0265 00-1
Utility outlet receptacles	
Rear	
M577A3 and M1068A3	
Replacement.....	0378 00-1
V	
Valve	
Front Bilge	
Replacement	0633 00-1
Fuel Shutoff	
Coolant Heater	
Replacement.....	0720 00-1
Valve Assembly	
Fuel Shut-off	
M113A3, M1059A3, and M58	
Replacement.....	0684 00-1
Variable speed drive	0359 01-1
Fan	
Replacement (Old Configuration)	0249 00-1
Replacement (New Configuration)	0249 01-1
Controller.....	0250 01-1
Fan Drive and Override Switch	
Replacement (New Configuration)	0231 01-1
Generator	
Replacement (Old Configuration)	0249 00-1
Replacement (New Configuration)	0249 01-1
Variable speed fan drive valve (Old Configuration)	0231 00-1
Override switch (New Configuration).....	0231 01-1
Vehicle batteries discharge with external AC power applied	
M1068A3 only	0103 00-1
Vehicle will not accept external AC power	
M1068A3 only	0104 00-1
Vehicle will not accept inverter AC power	
M1068A3 only	0105 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Vent fitting	
Battery box	
M58	
Replacement.....	0355 00-1
Ventilating Fan Assembly	
Replacement.....	0247 00-1
Ventilating Fan Drive Belt	
Adjustment.....	0242 00-1
Replacement.....	0243 00-1
Ventilating Fan Drive Pulley	
Replacement.....	0244 00-1
Ventilation fan	
M577A3 and M1068A3	
Replacement.....	0383 00-1
VFM	
Vision Block Locks and Seals	
Driver's Hatch	
Replacement.....	0535 00-1
Vision block locks and seals	
Commander's cupola	
M1064A3	
Replacement.....	0491 00-1
M113A3 and M1059A3, M58	
Replacement.....	0490 00-1
Vision Port	
Ramp	
M58	
Replacement/Repair.....	0586 00-1
Voltage regulator	
Adjustment.....	0256 00-1
W	
W1, W2, and NATO Slave Cables	
Stowage Brackets for	
M1068A3 and M577A3	
Replacement.....	0626 01-1
Wait indicator flashes during start attempts (preglow or afterglow)	0018 00-1
Wait indicator light doesn't light.....	0019 00-1
Warning Light Panel	
All Except M58	
Replacement.....	0292 00-1
Instrument	
Replacement.....	0288 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Warning light panel Assembly	
All Except M58	
Replacement.....	0291 00-1
Warning Lights	
Instrument Panel	
Replacement.....	0287 00-1
Warning Panel Lights	
M58	
Replacement.....	0294 01-1
Warning panel lights	
All Except M58	
Replacement.....	0294 00-1
Warning panel wiring harness	
Replacement.....	0374 00-1
Water/Ration Heater	
Mount Bracket	
(M113A3 Only)	
Replace.....	0811 00-1
Power Cable	
(M113A3 Only)	
Replace.....	0810 00-1
Webbing straps	
Replacement.....	0569 00-1
Wheel	
Idler	
Replacement.....	0425 00-1
Road	
Replacement.....	0426 00-1
Windshield	
Driver's	
Replacement.....	0739 00-1
Stowage bag, straps, and decal	
Replacement.....	0740 00-1
Stowage Bracket	
M1064A3	
Replacement.....	0614 00-1
Wire harness	
Radiac	
M113A3, M577A3, and M1068A3	
Replacement.....	0376 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
Wire Rope and Pulleys	
M1064A3	
Replacement.....	0658 00-1
Wire rope and pulleys	
All Except M1064A3	
Replacement.....	0657 00-1
Wiring Harness	
Air Box Heater	
Replacement.....	0205 00-1
Coolant Heater	
Replacement.....	0735 00-1
Coolant Pump to Heater	
Replacement.....	0733 00-1
M13 NBC Heater	
(M577A3)	
Replace.....	0808 00-1
M14 NBC Heater	
(M113A3 Ambulance)	
Replace.....	0807 00-1
M3 NBC Heater (M1059A3)	
Replace.....	0806 00-1
Repair	0382 00-1
STE/ICE Crew	
M1064A3	
Replacement.....	0881 00-1
STE/ICE Crew, M113A3 and M1059A3	
Replacement.....	0878 00-1
STE/ICE Crew, M577A3 and M1068A3	
Replacement.....	0879 00-1
STE/ICE Engine	
Replacement.....	0882 00-1
Wiring harness	
3W1	0359 01-1
Battery-to-radio (Left Side)	
M113A3 and M1059A3	
Replacement.....	0369 00-1
Engine	
Replacement.....	0359 00-1
Instrument panel battery-generator gauge	
Replace.....	0289 00-1

INDEX, cont'd

<u>Subject</u>	<u>WP Sequence No.-Page No.</u>
M13 NBC Heater	
M1068A3 only	
Replace.....	0809 00-1
M577A3	
Replace.....	0803 00-1
Rear main	
M1064A3	
Replacement.....	0364 00-1
M1068A3	
Replacement.....	0365 00-1
M113A3, M1059A3, and M58	
Replacement.....	0362 00-1
M577A3	
Replacement.....	0363 00-1
Right headlight	
Replace.....	0373 00-1
Smoke grenade launcher	
M113A3, M1059A3, and M58	
Replacement.....	0366 00-1
Steering lock switch	
All Except M58	
Replacement.....	0367 00-1
M58	
Replacement.....	0367 01-1
Transmission	
Replacement.....	0360 00-1
Transmission controller	
Replacement.....	0361 00-1
Warning panel	
Replacement.....	0374 00-1
Wiring harness (right side)	
Battery-to-radio	
M113A3	
Replacement.....	0370 00-1
Wiring Harnesses, Cables, Leads	
Chemical Alarm Interface	
M113A3	
Replacement.....	0923 00-1
Circuit 44A, Power Control Enclosure Leads	
M1068A3	
Replacement.....	0829 00-1

INDEX, cont'd

Subject

WP Sequence No.-Page No.

Wiring Harnesses, cables, leads

W251

M1068A3

Replacement..... 0852 00-1

W42

M1068A3

Replacement..... 0852 00-1

W43

M1068A3

Replacement..... 0852 00-1

Wiring harnesses, cables, leads

W124

M1068A3

Replacement..... 0855 00-1

Wiring Harnesses, cables, leads:

LAN A or B (W103/W104)

M1068A3

Replacement..... 0854 00-1

W45

M1068A3

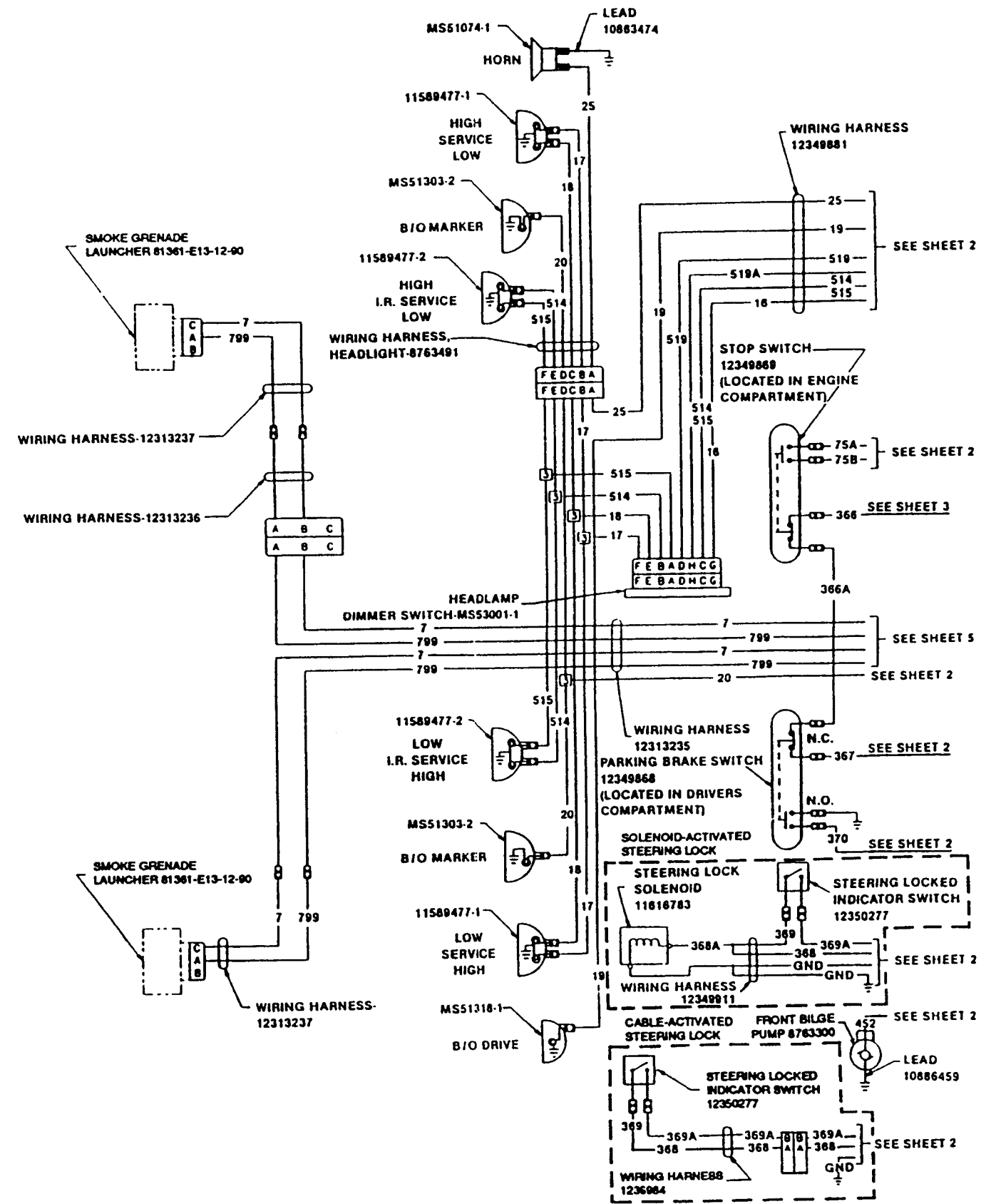
Replacement..... 0853 00-1

Wiring harnesses, cables, leads:

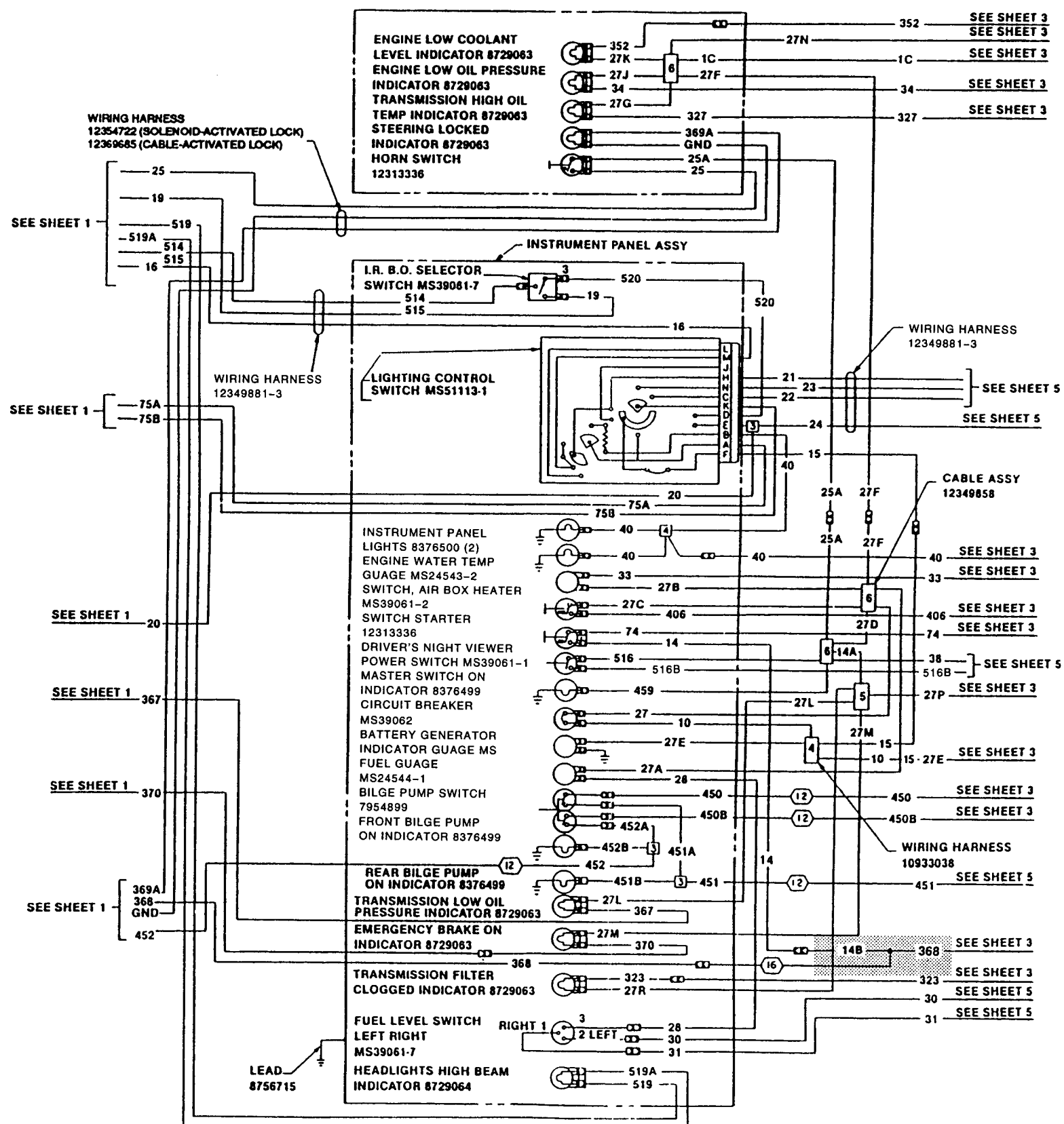
W126

M1068A3

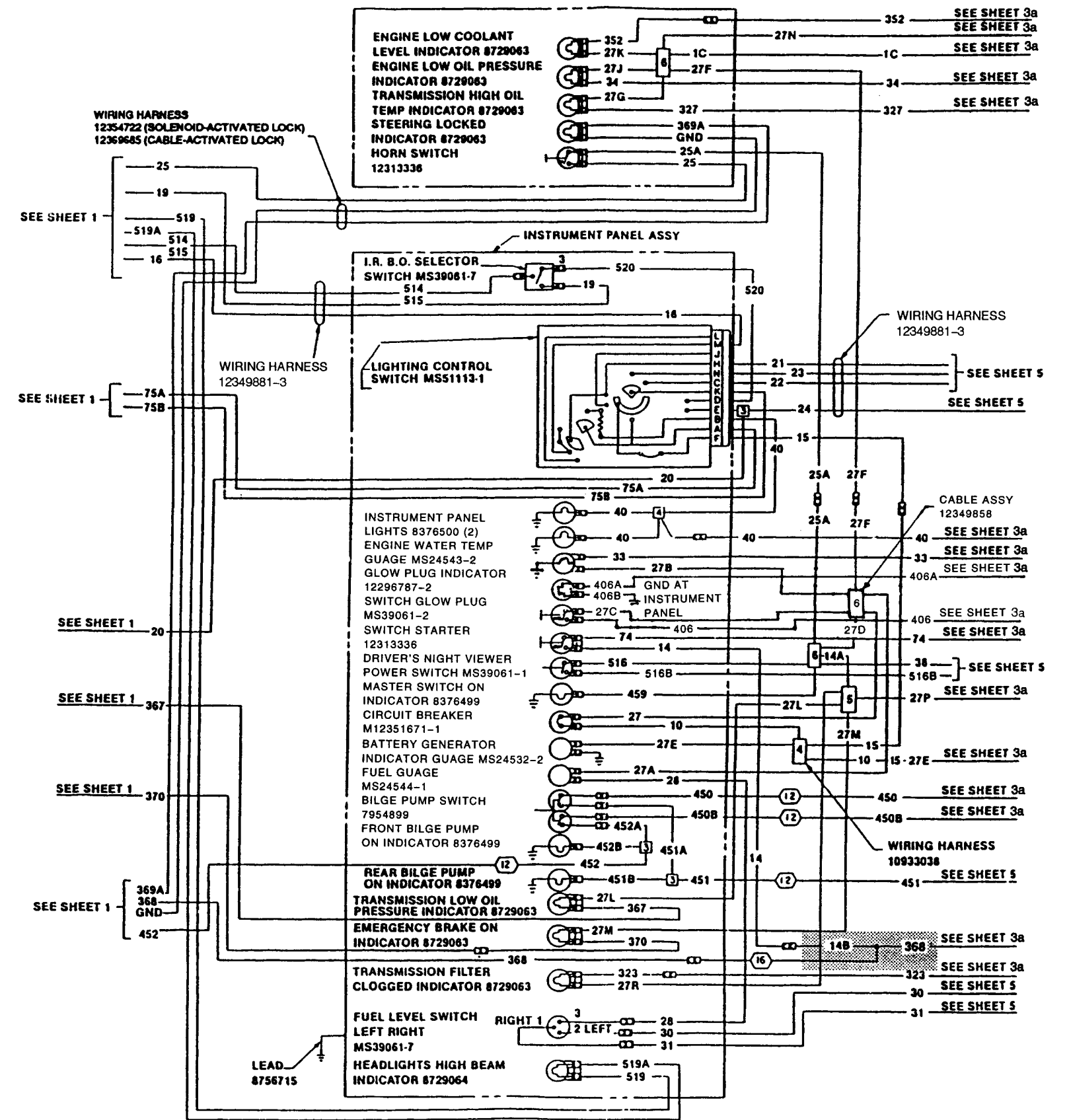
Replacement..... 0856 00-1



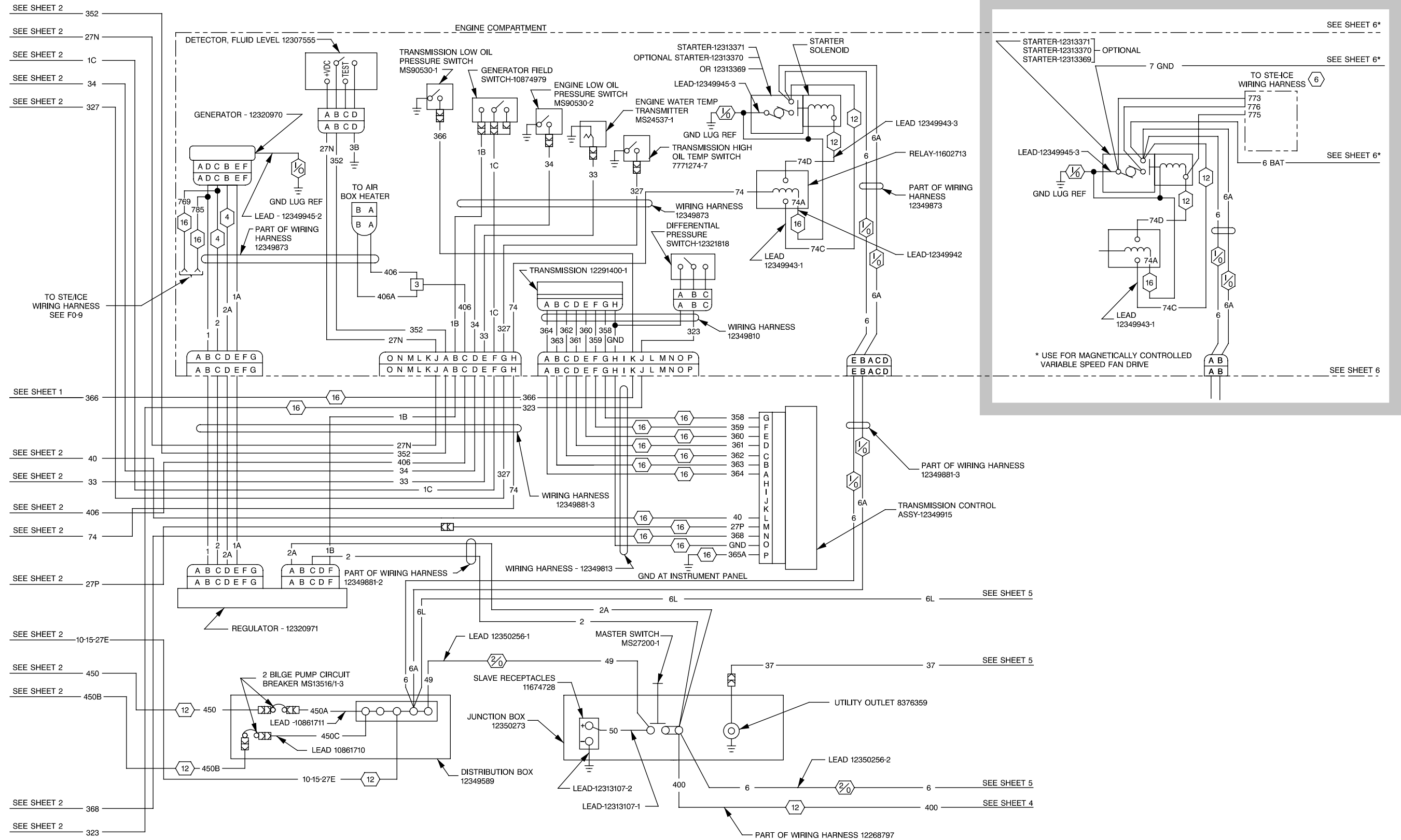
FO-1. M113A3 Electrical (Sheet 1 of 8)



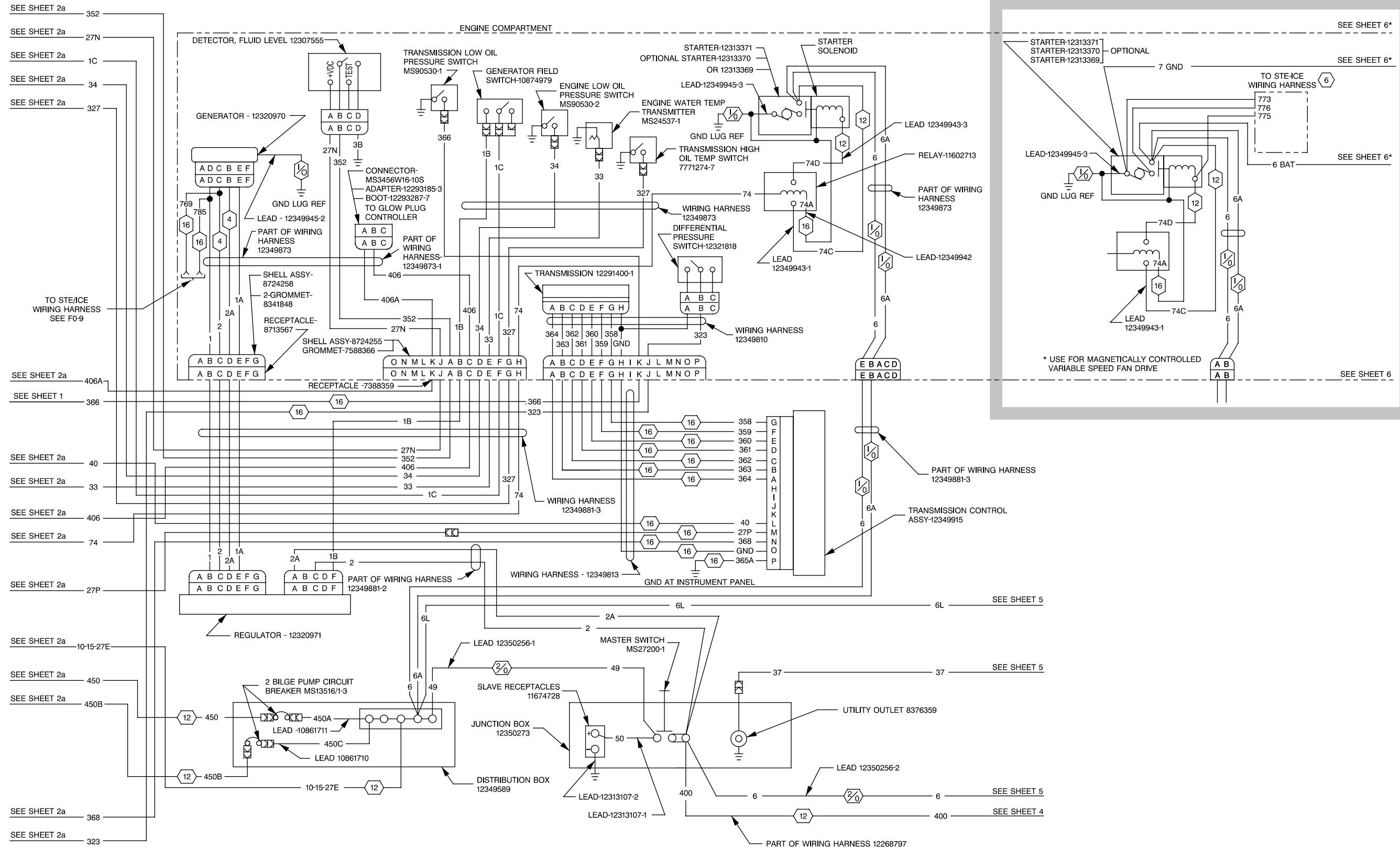
FO-1. M113A3 Electrical (Early) (Sheet 2)



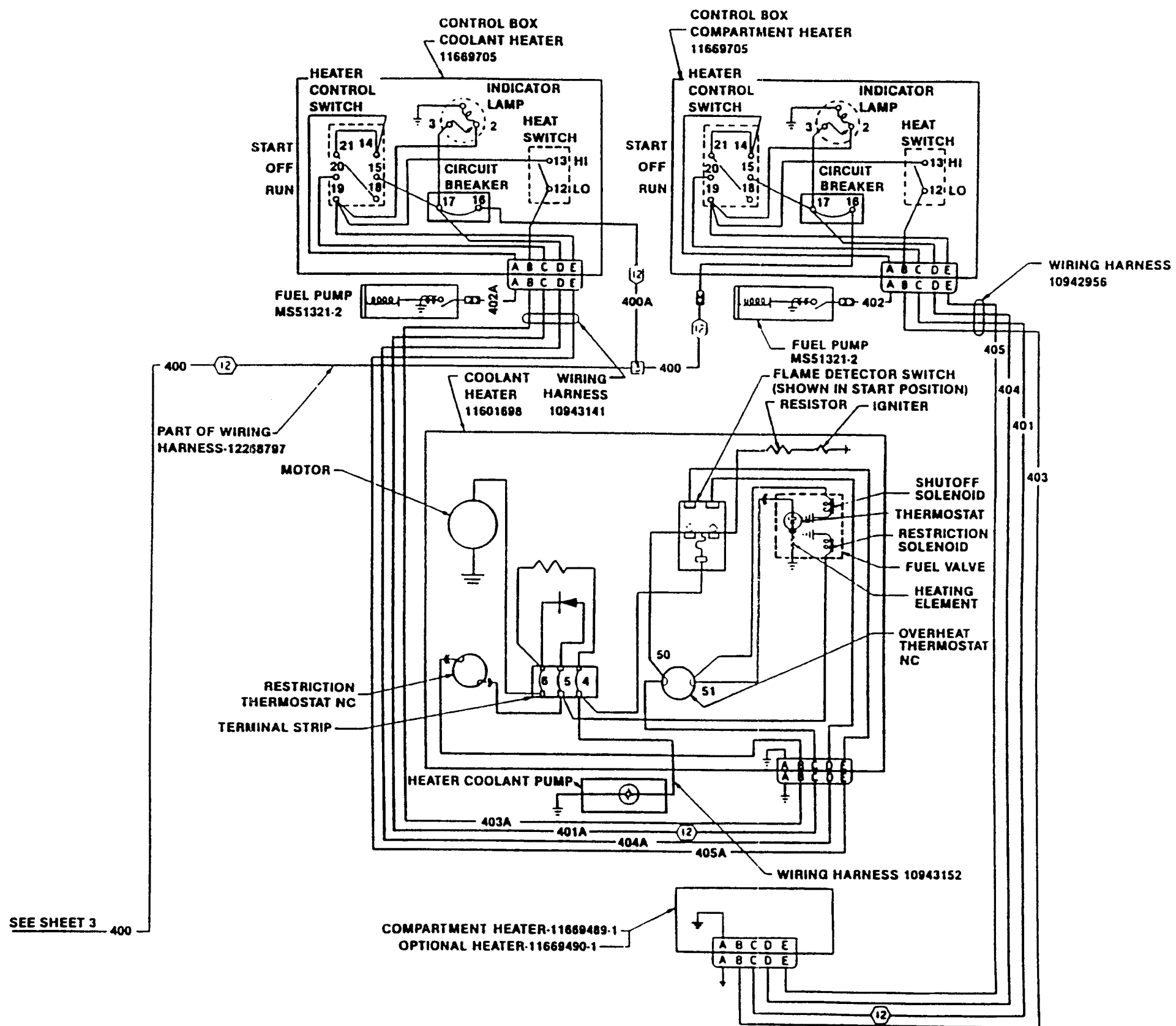
FO-1. M113A3 Electrical (Late) (Sheet 2a)

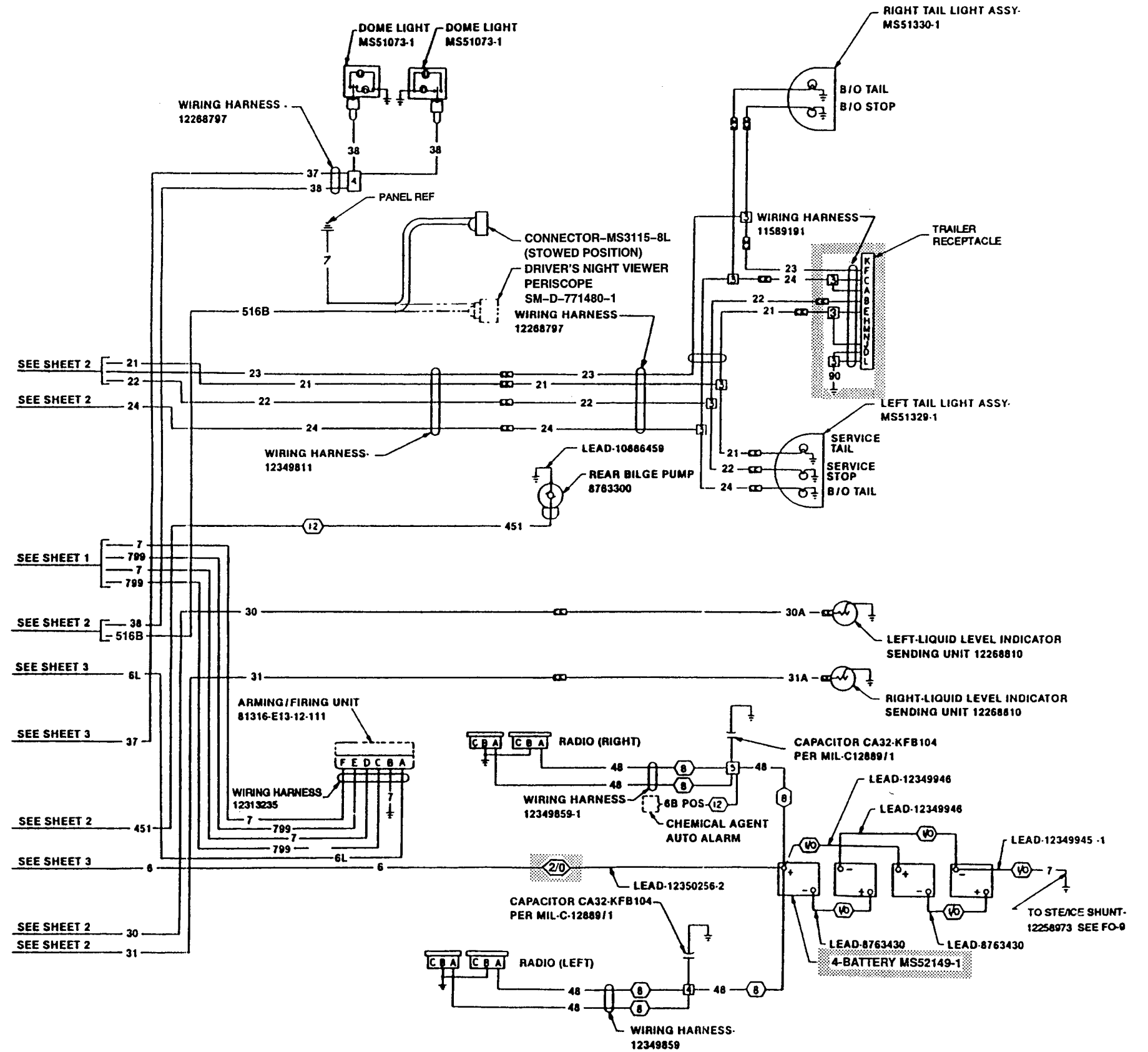


FO-1. M113A3 Electrical (Early) (Sheet 3)

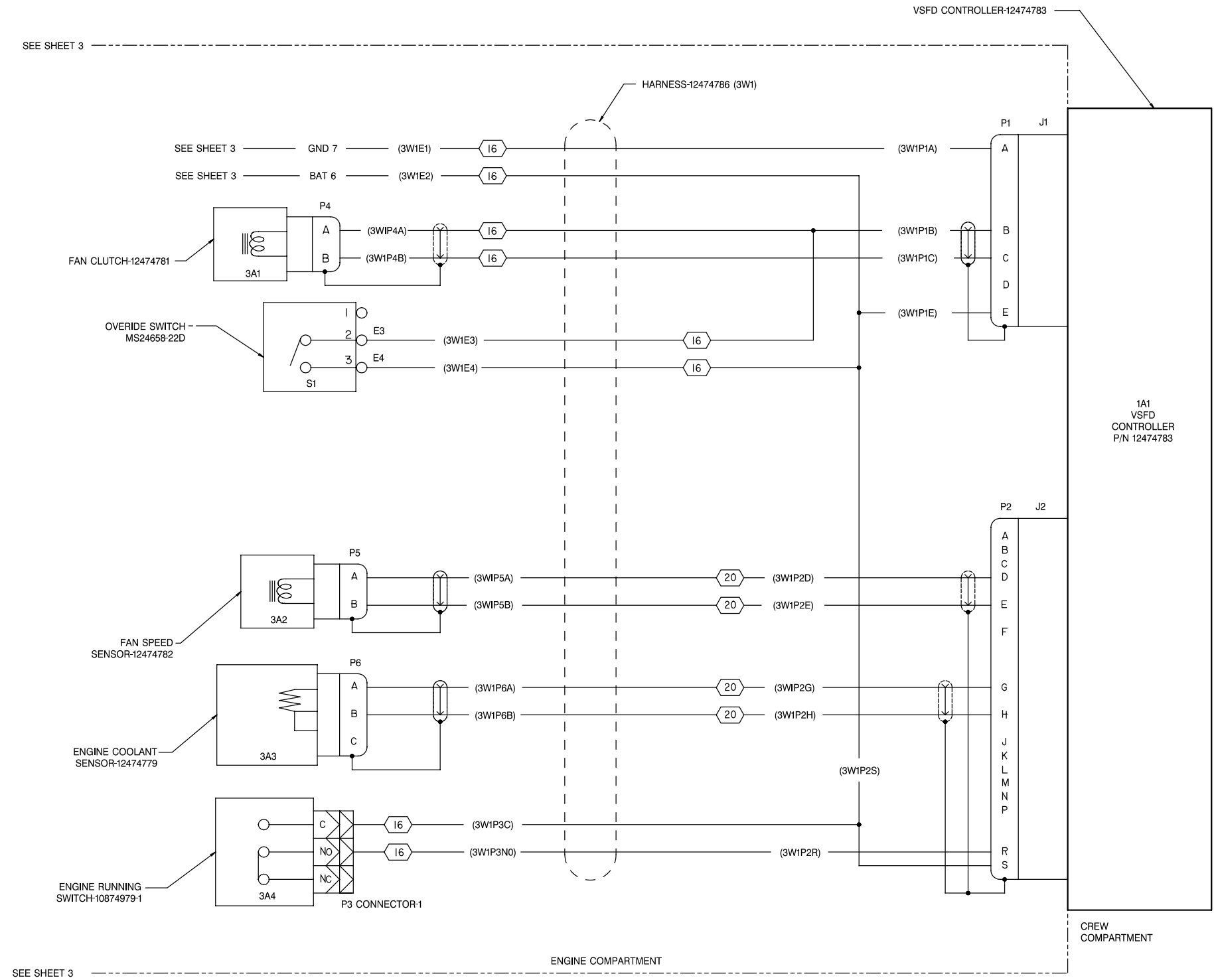


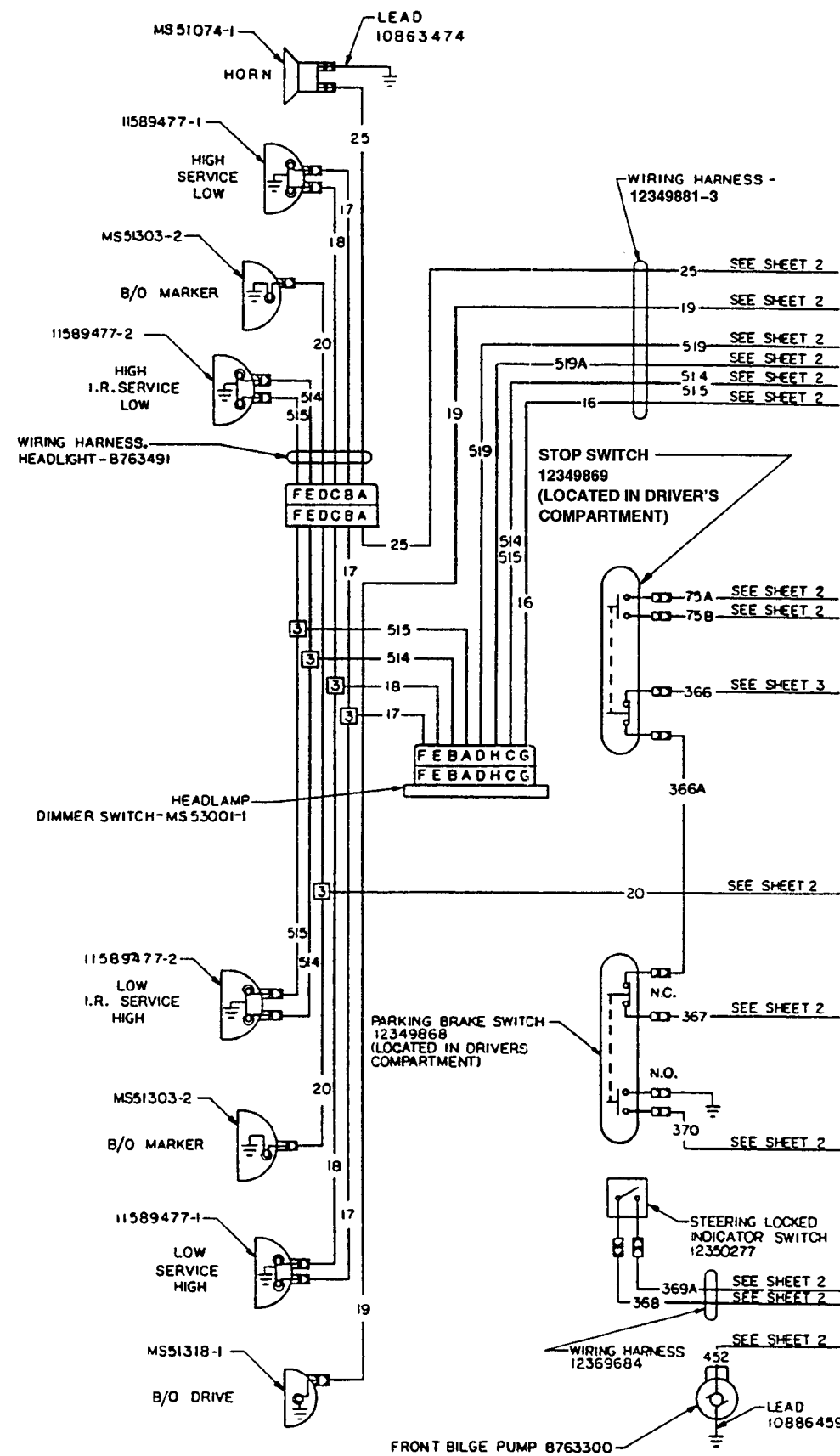
FO-1. M113A3 Electrical (Late) (Sheet 3a)



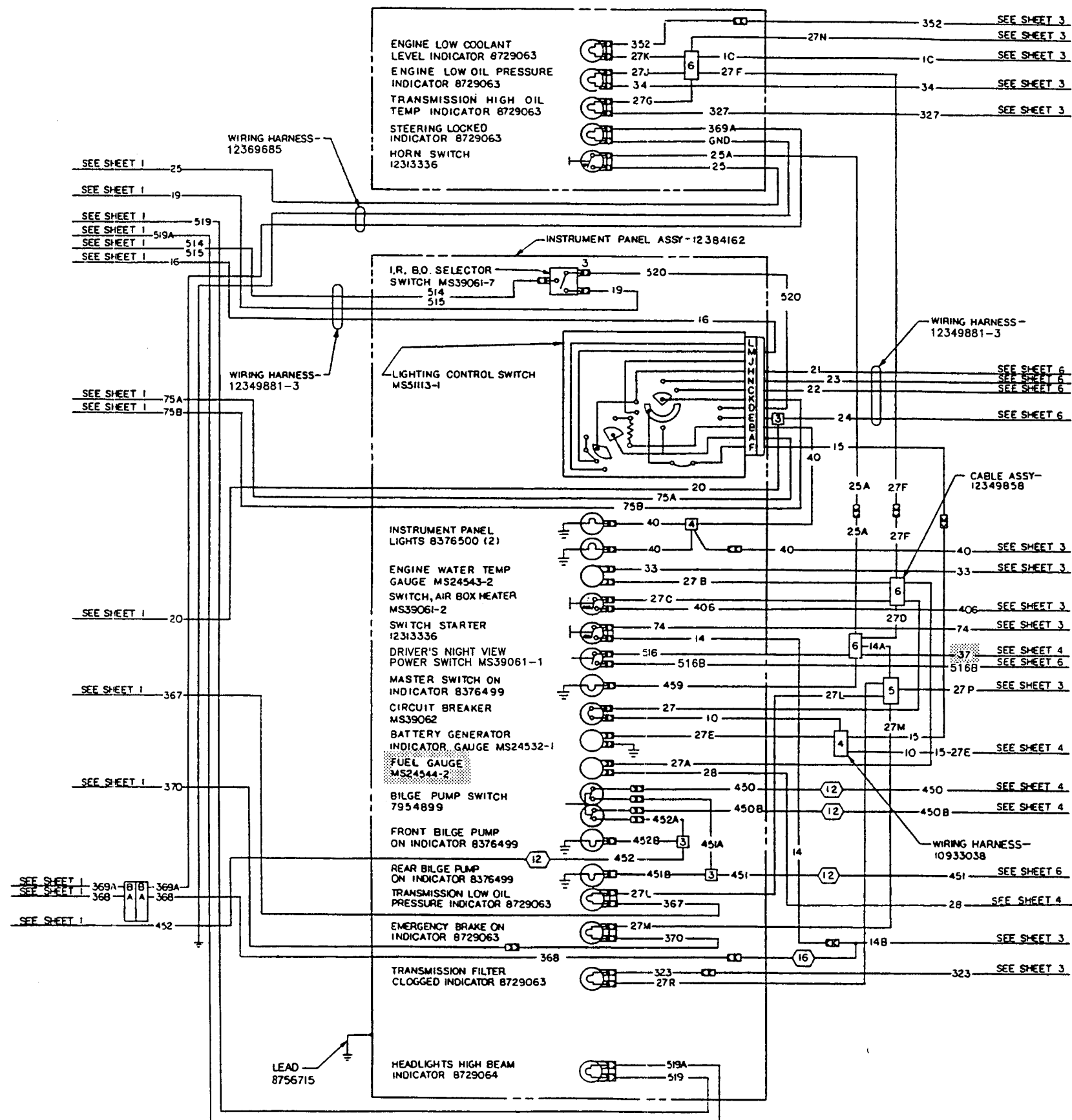


FO-1. M113A3 Electrical (Sheet 5)

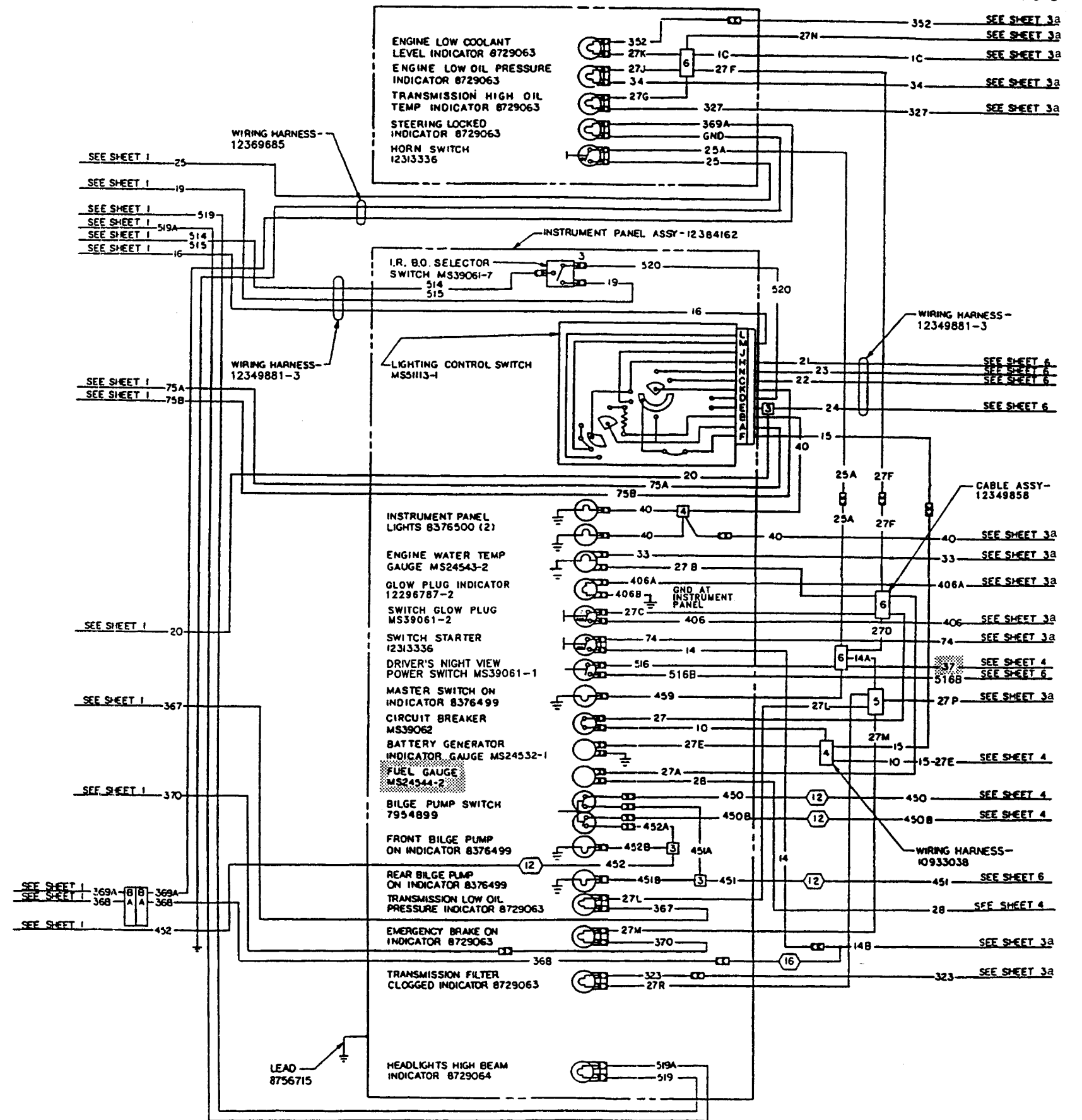




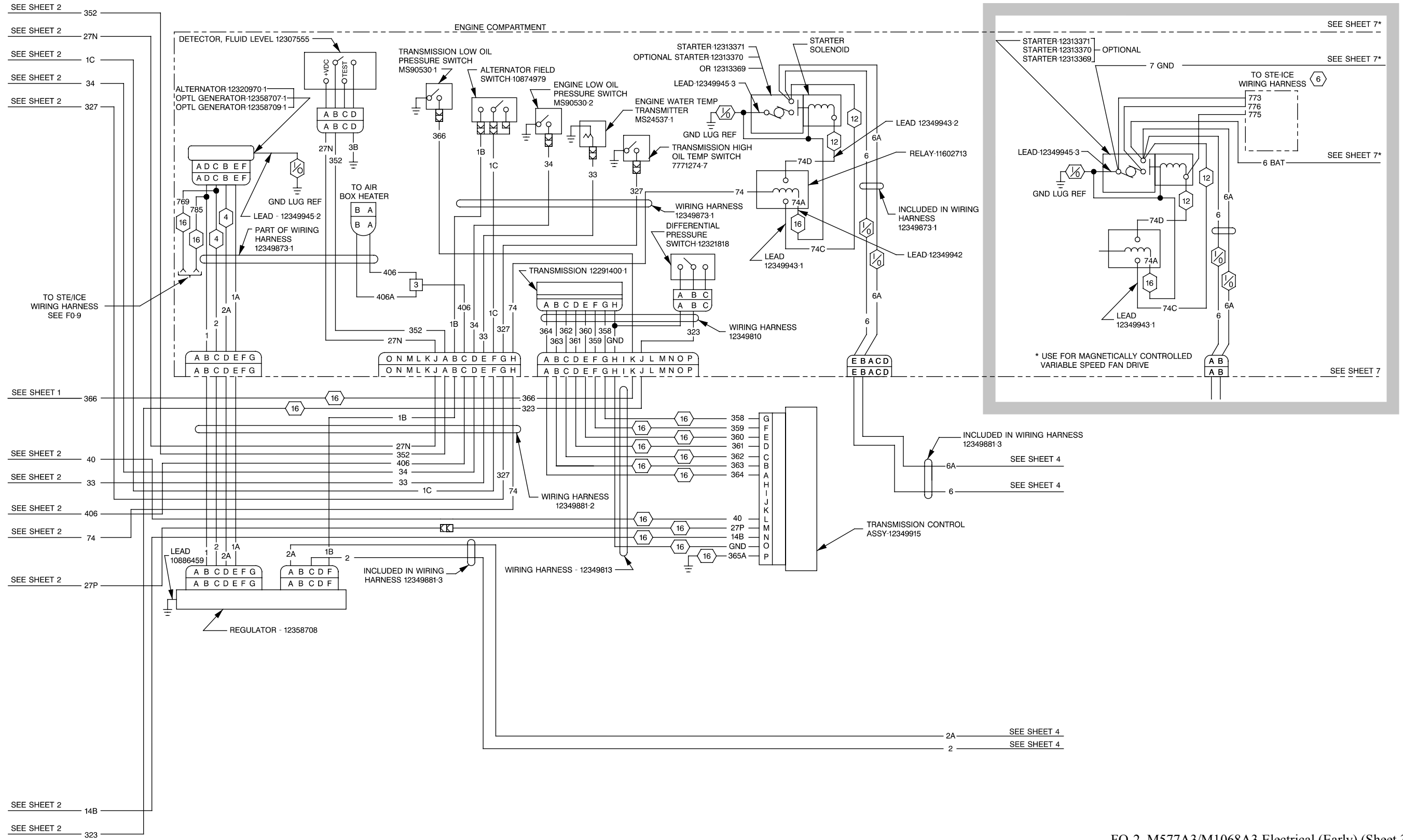
NOTE
ALL WIRES ARE 14 AWG
UNLESS OTHERWISE SPECIFIED
IN HEX SYMBOL



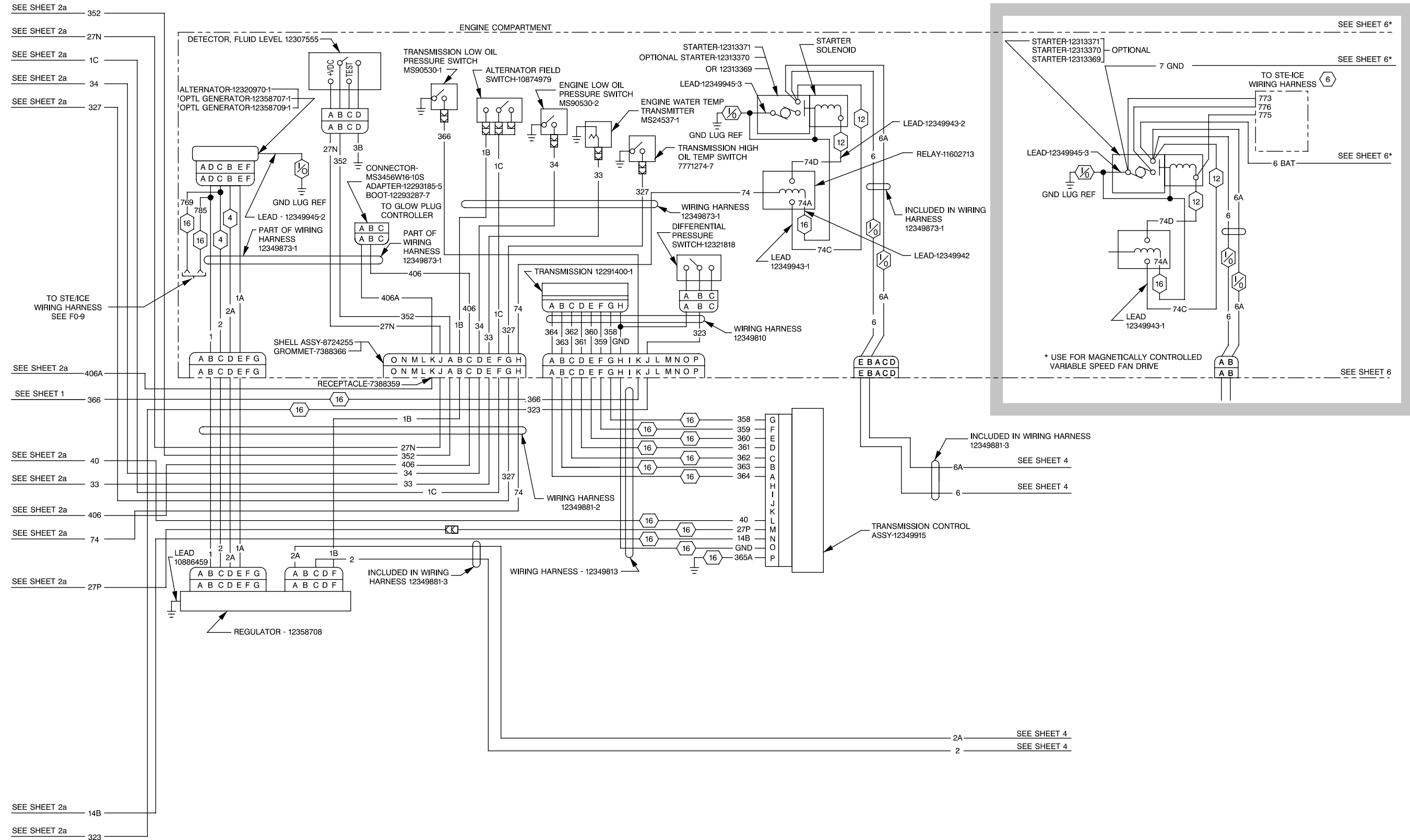
FO-2. M577A3/M1068A3 Electrical (Early) (Sheet 2)

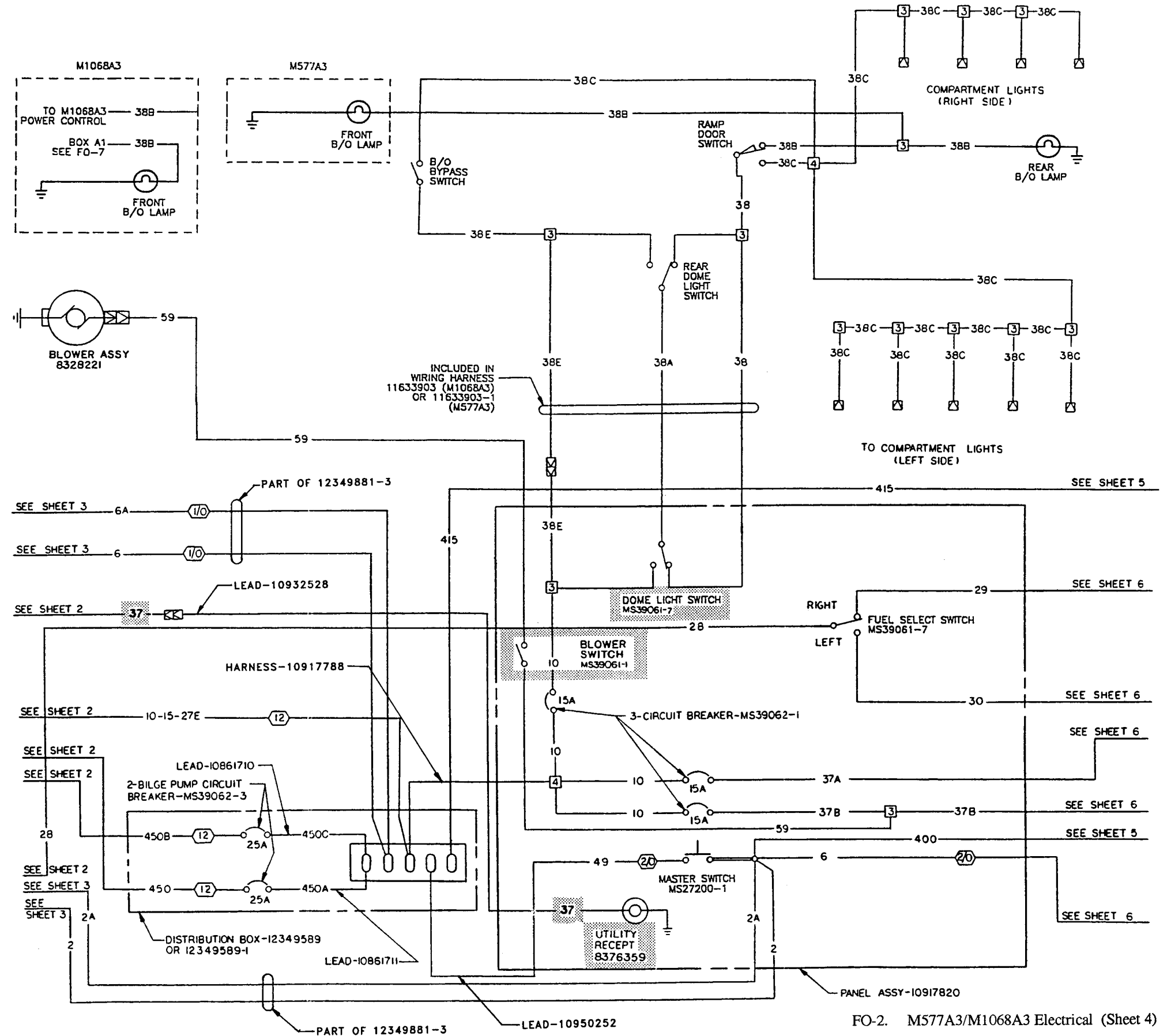


FO-2. M577A3/M1068A3 Electrical (Late)(Sheet 2a)

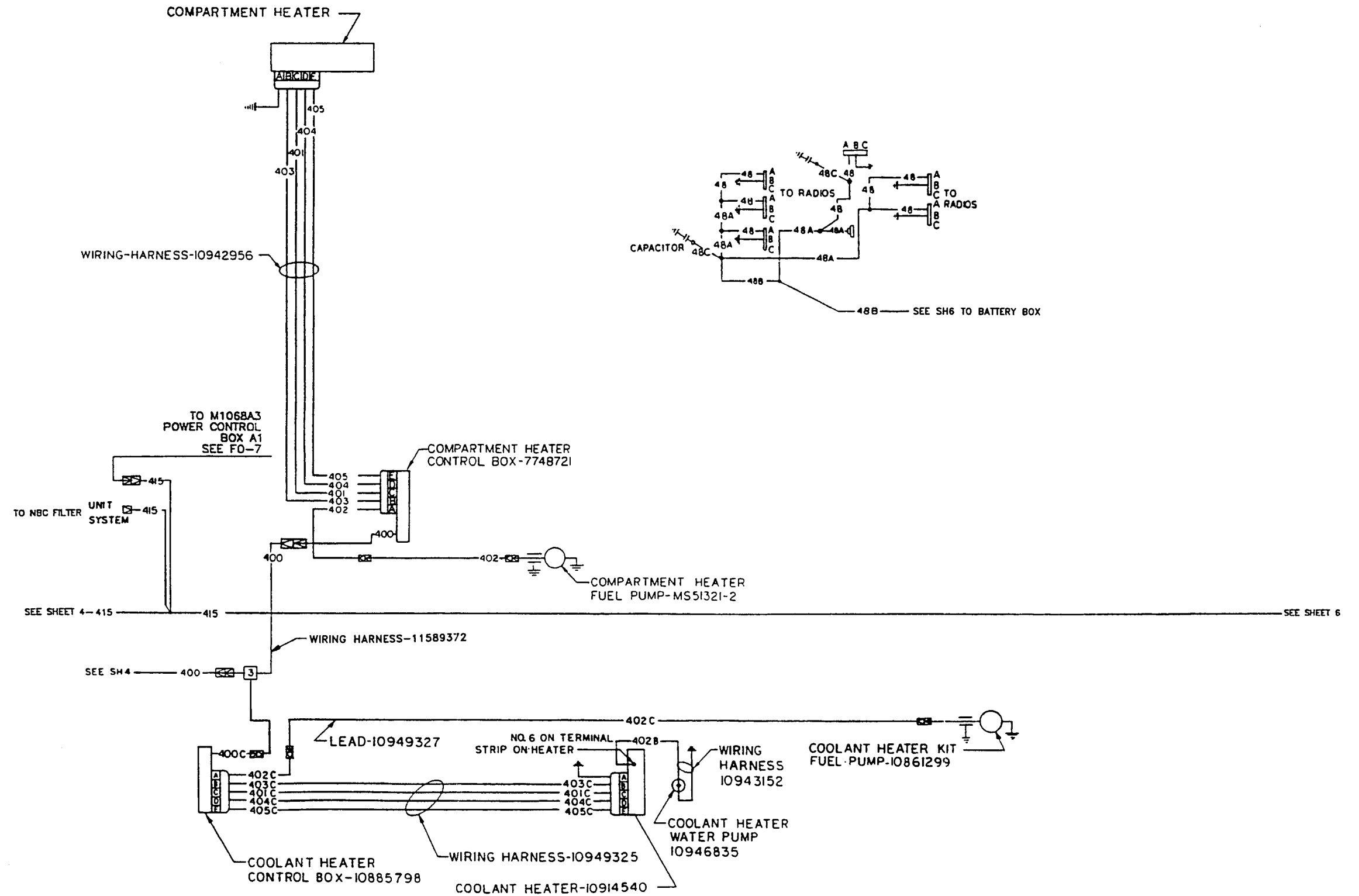


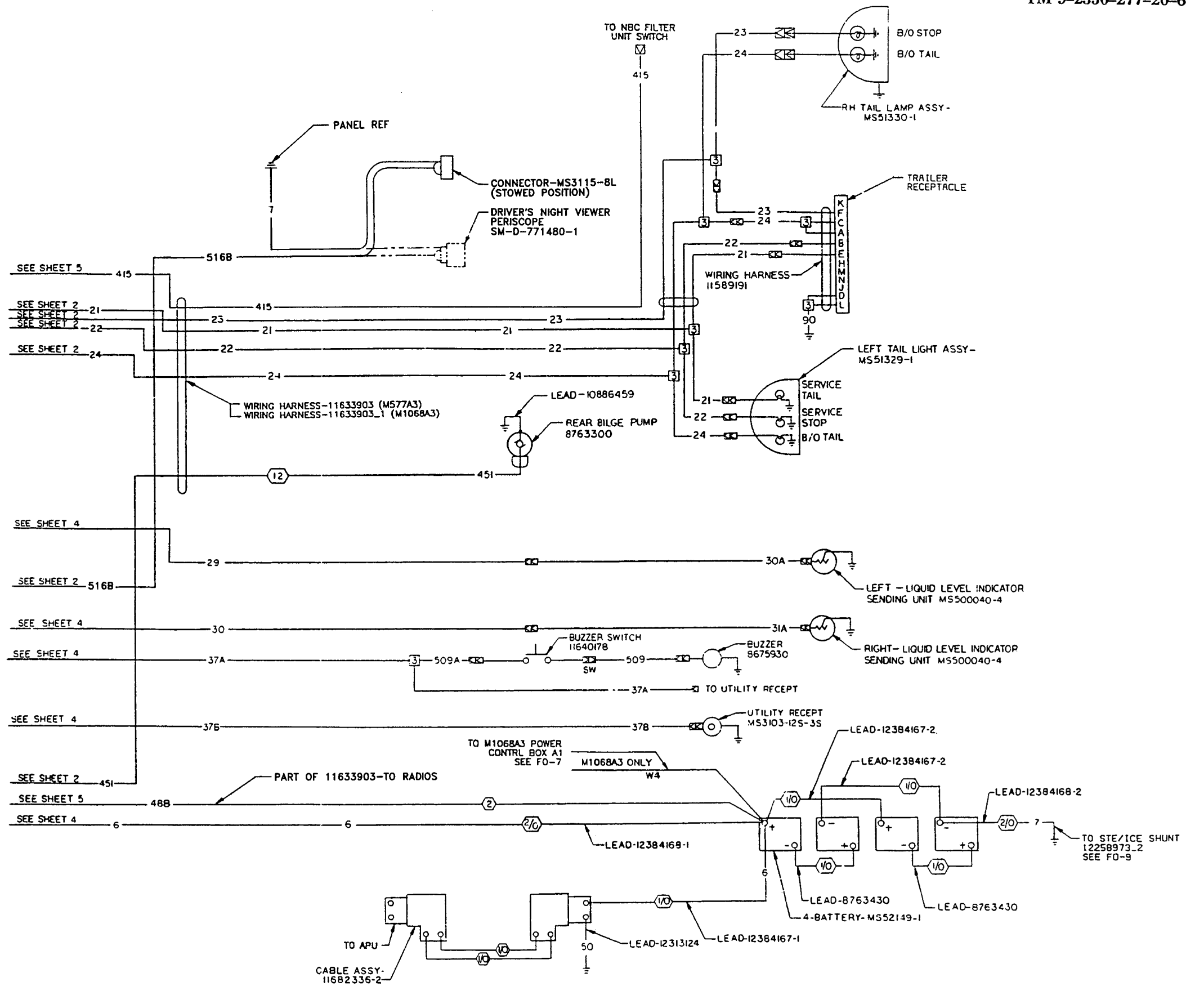
FO-2. M577A3/M1068A3 Electrical (Early) (Sheet 3)

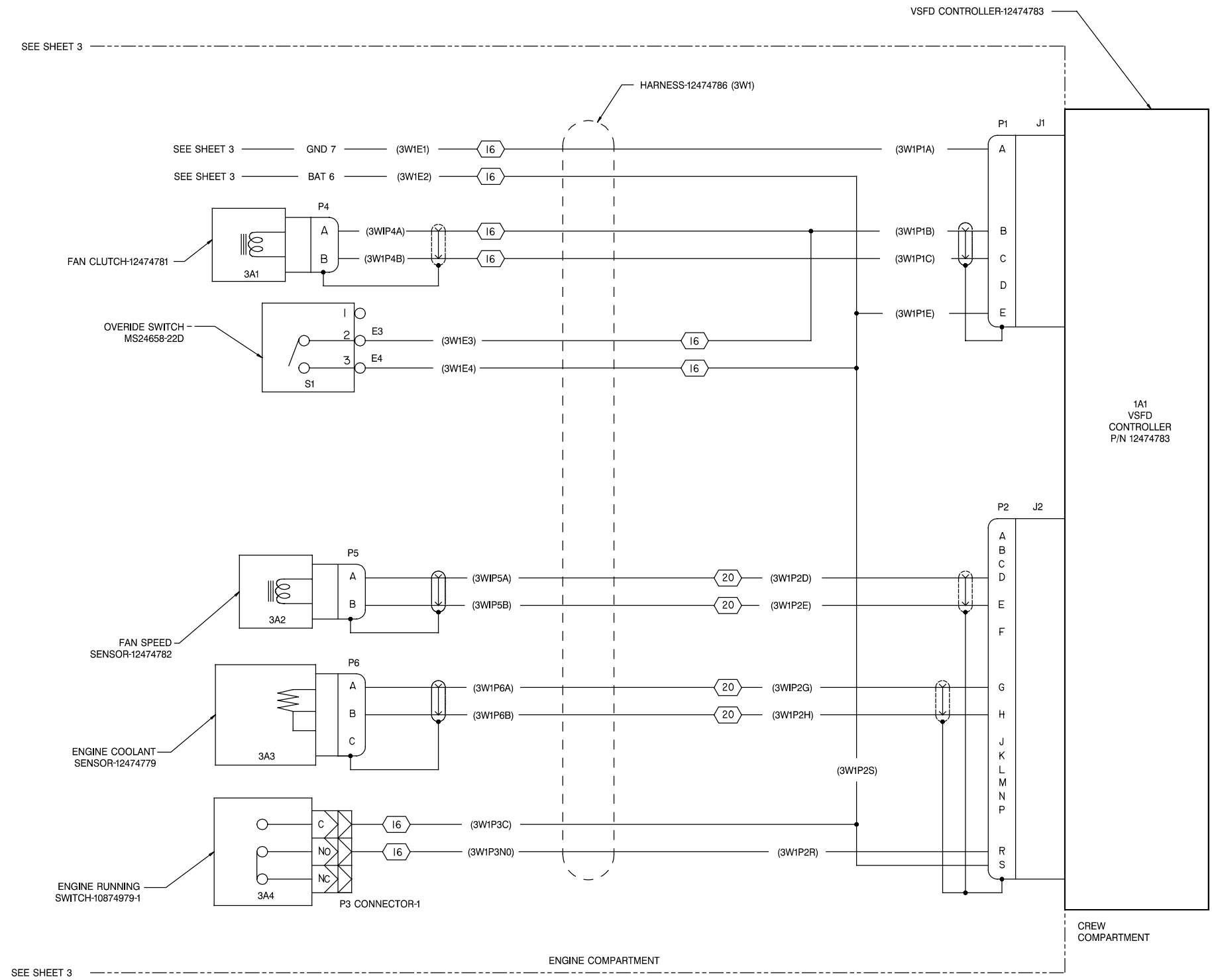


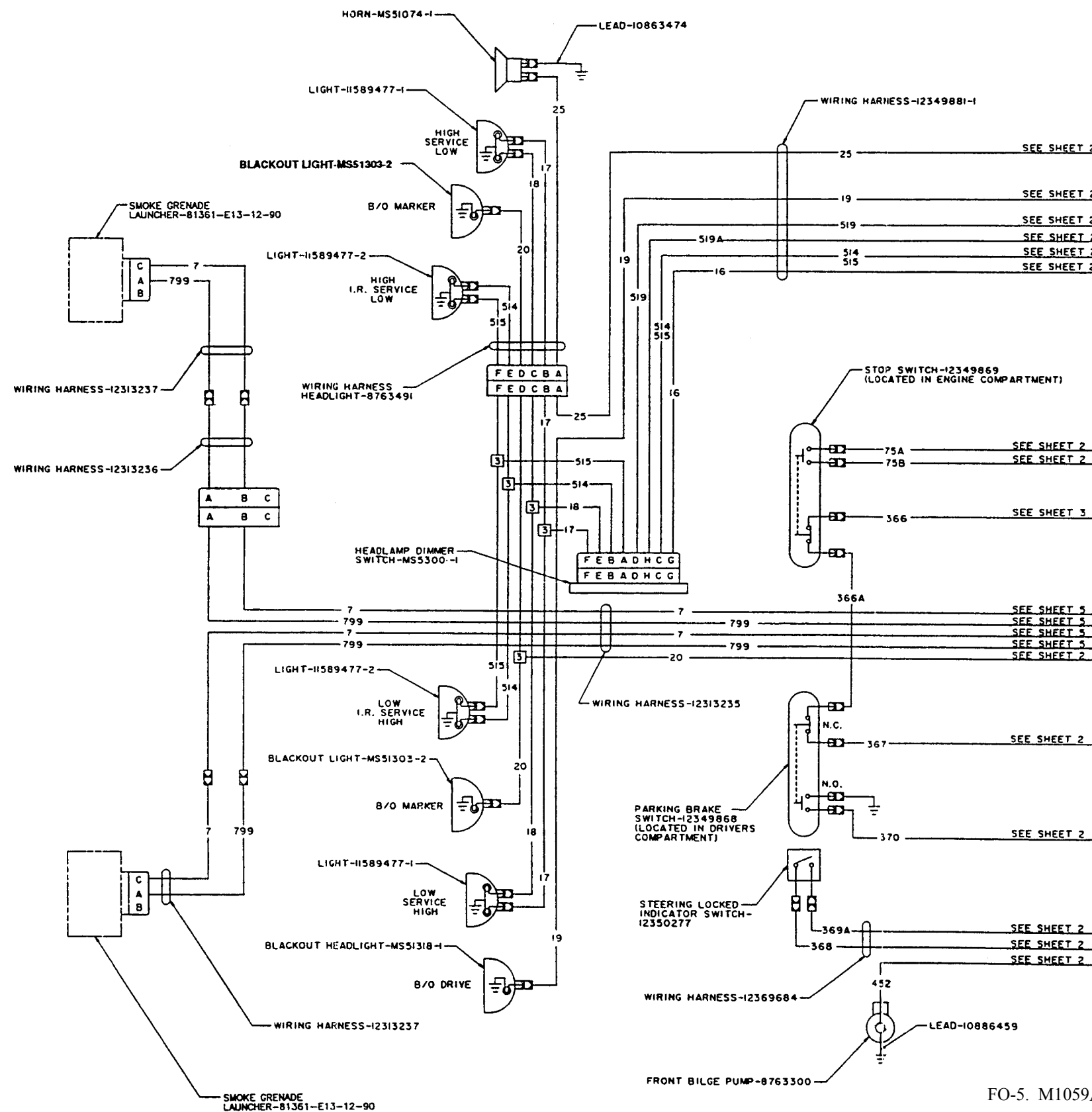


FO-2. M577A3/M1068A3 Electrical (Sheet 4)



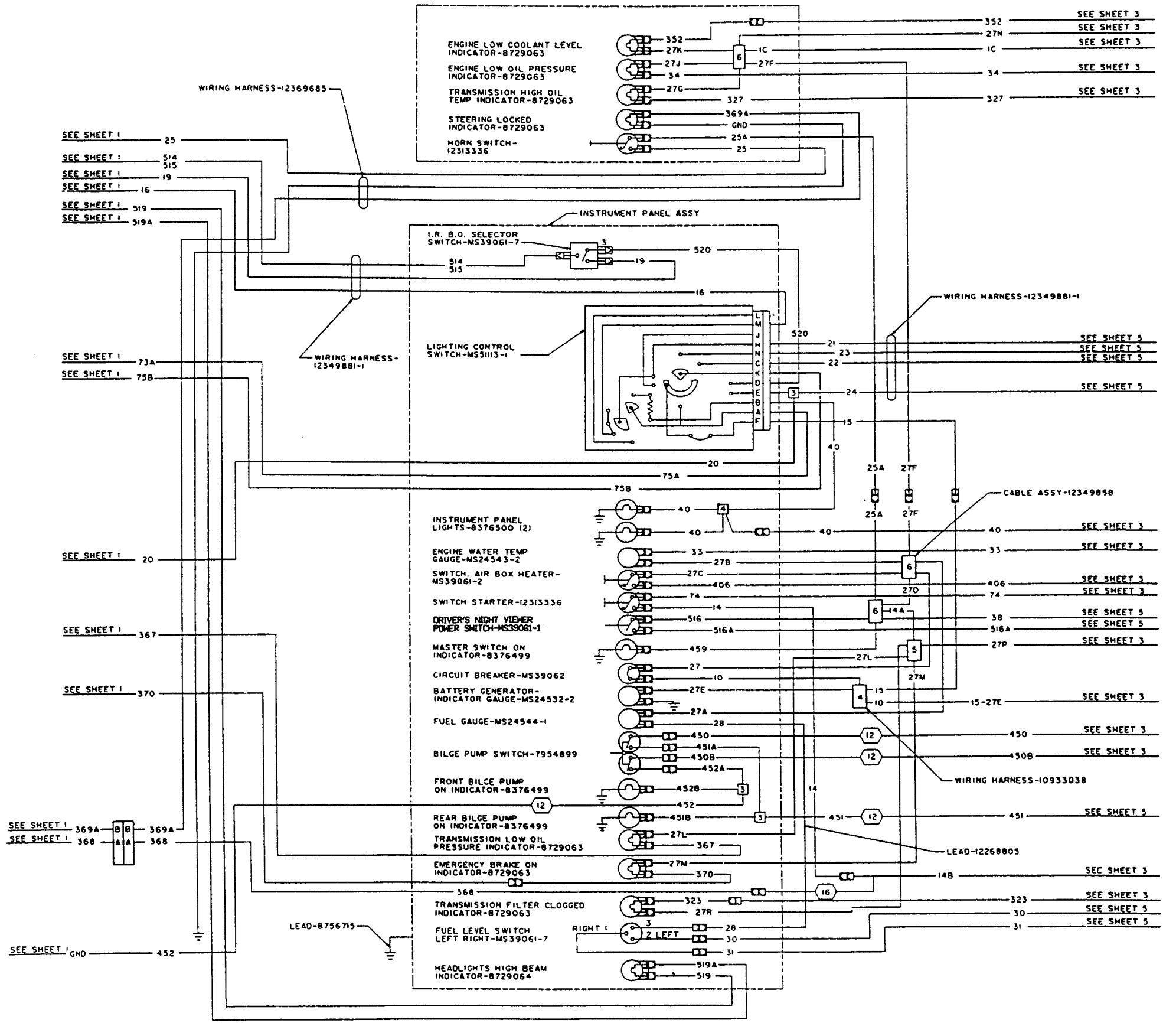


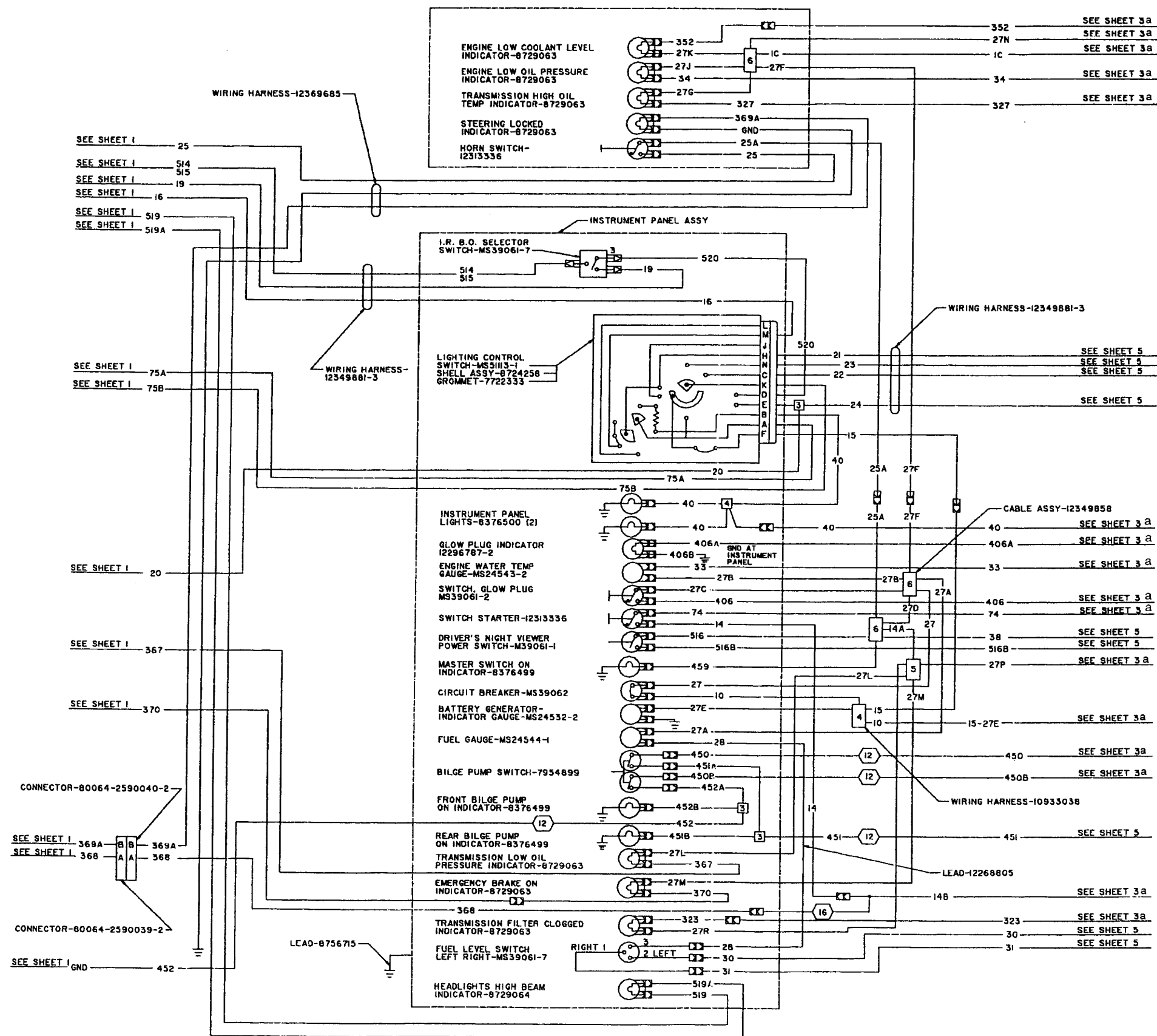


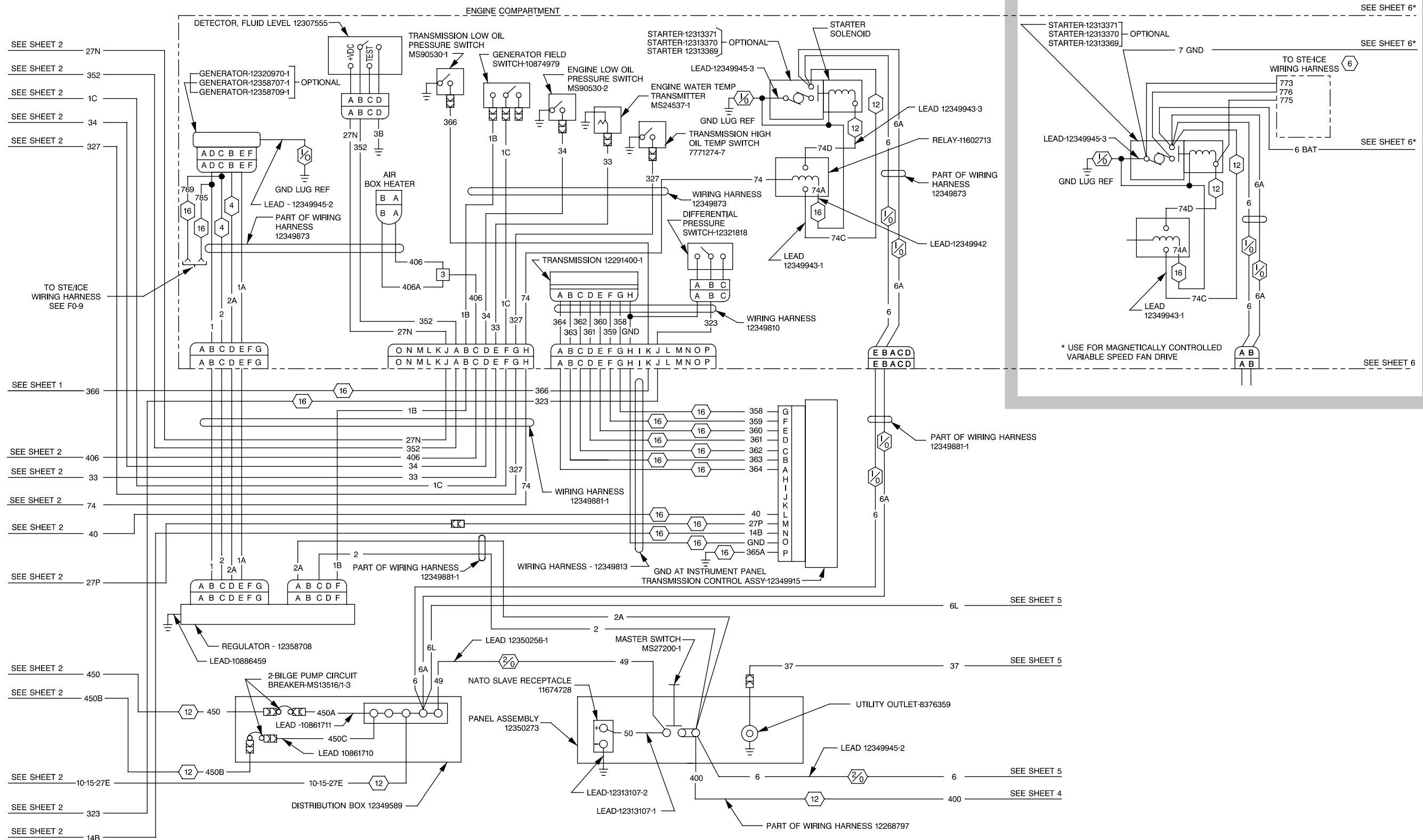


NOTE
ALL WIRES ARE 14 AWG
UNLESS OTHERWISE SPECIFIED
IN HEX SYMBOL

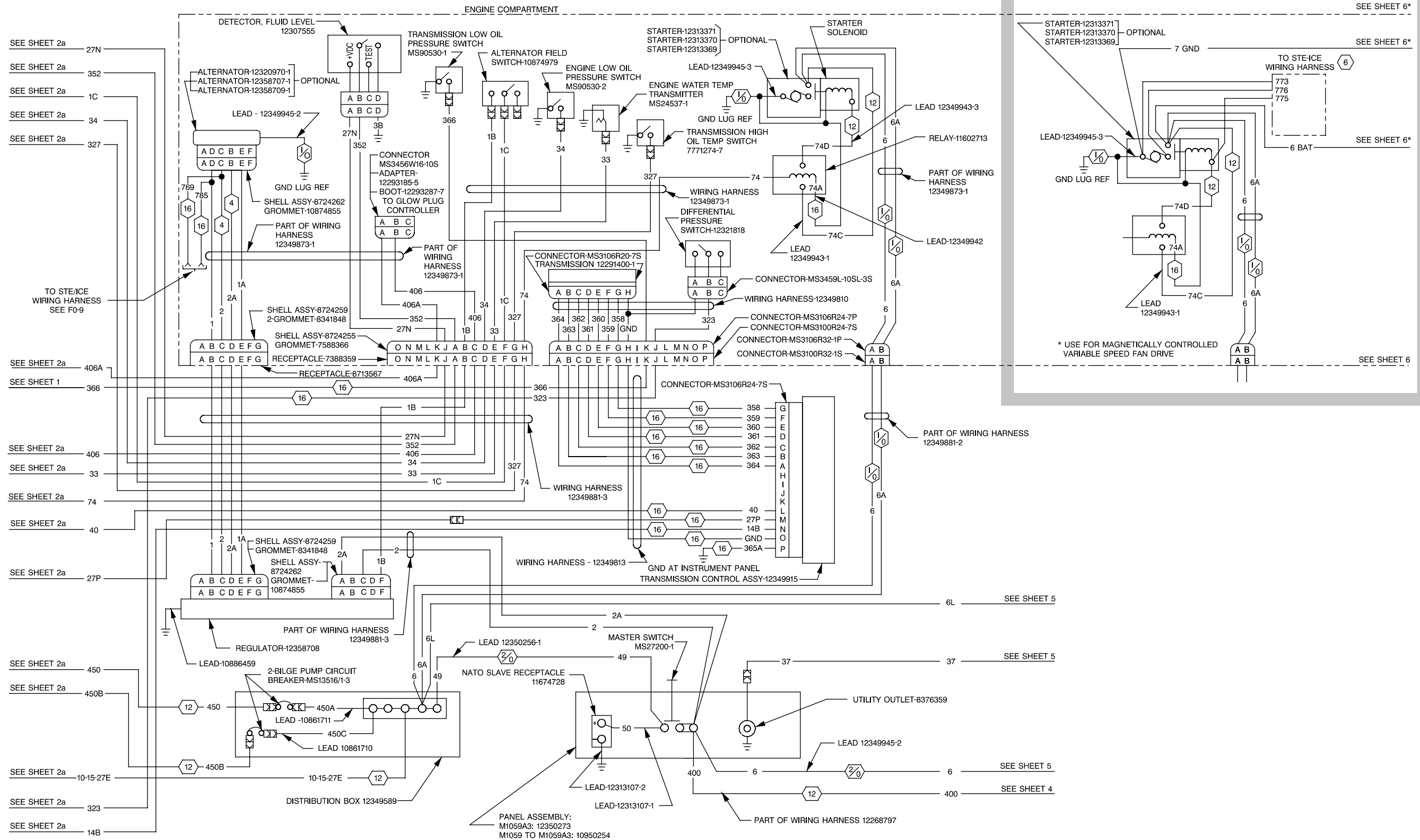




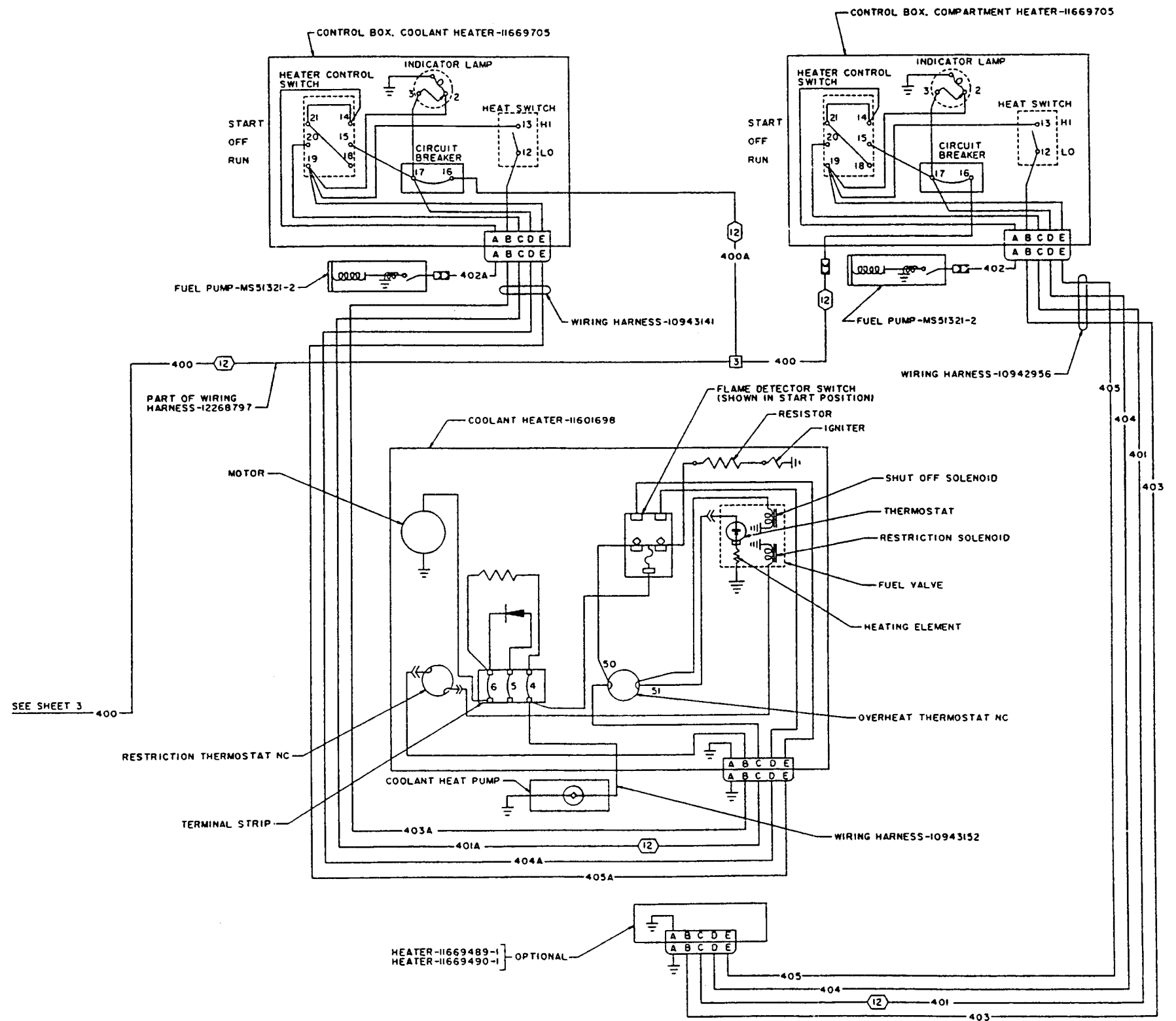


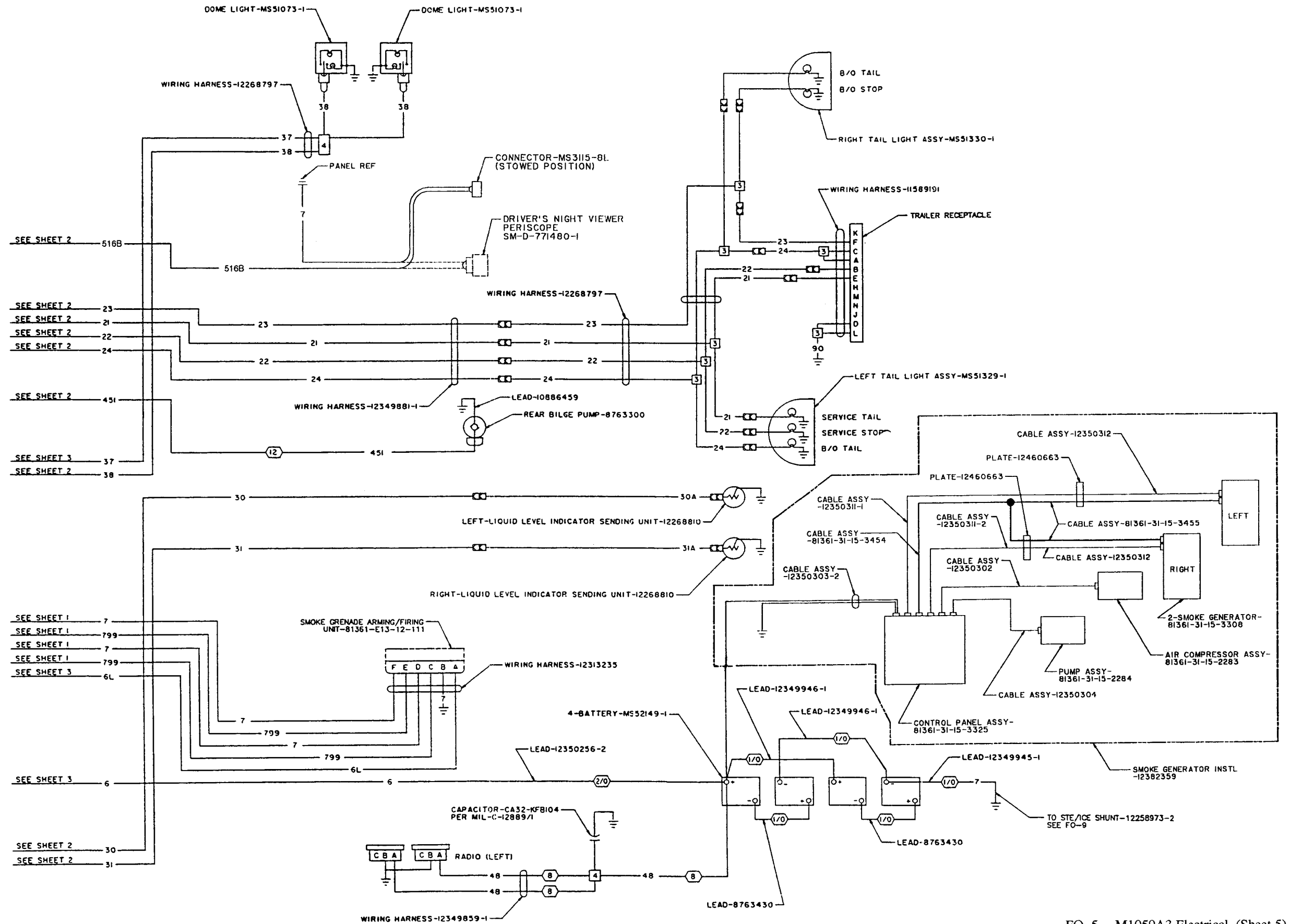


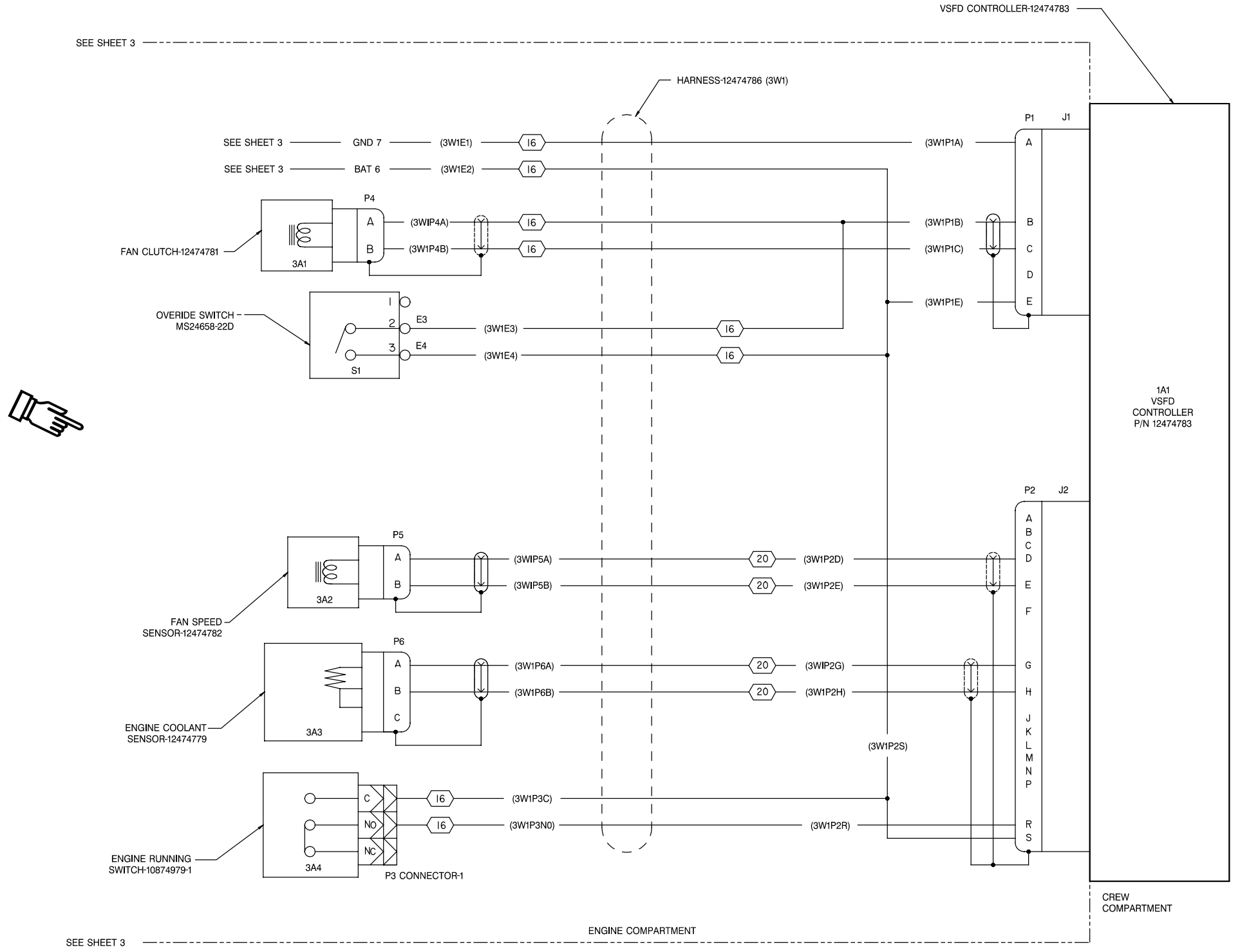
FO-5. M1059A3 Electrical (Early) (Sheet 3)

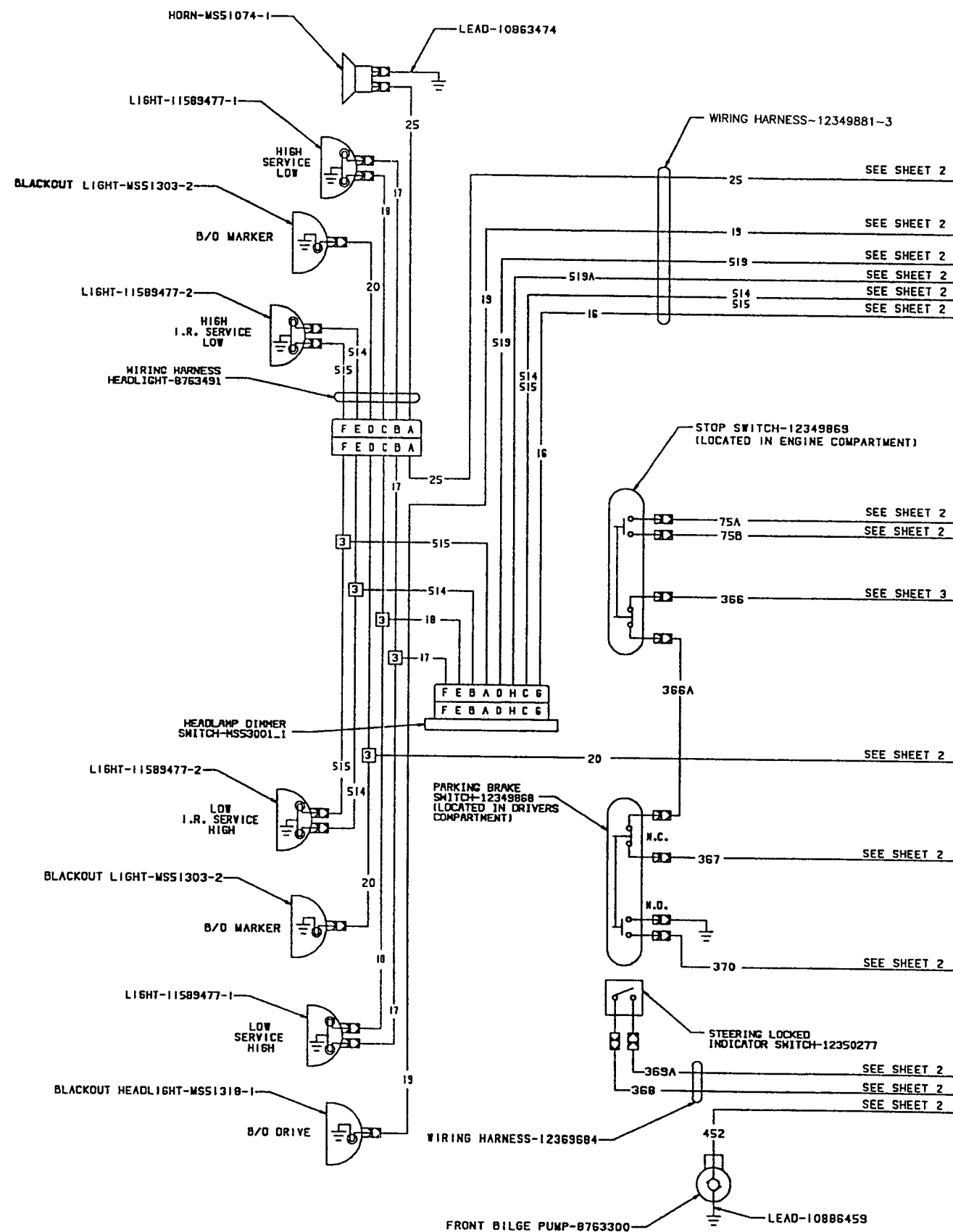


FO-5. M1059A3 Electrical (Late) (Sheet 3a)



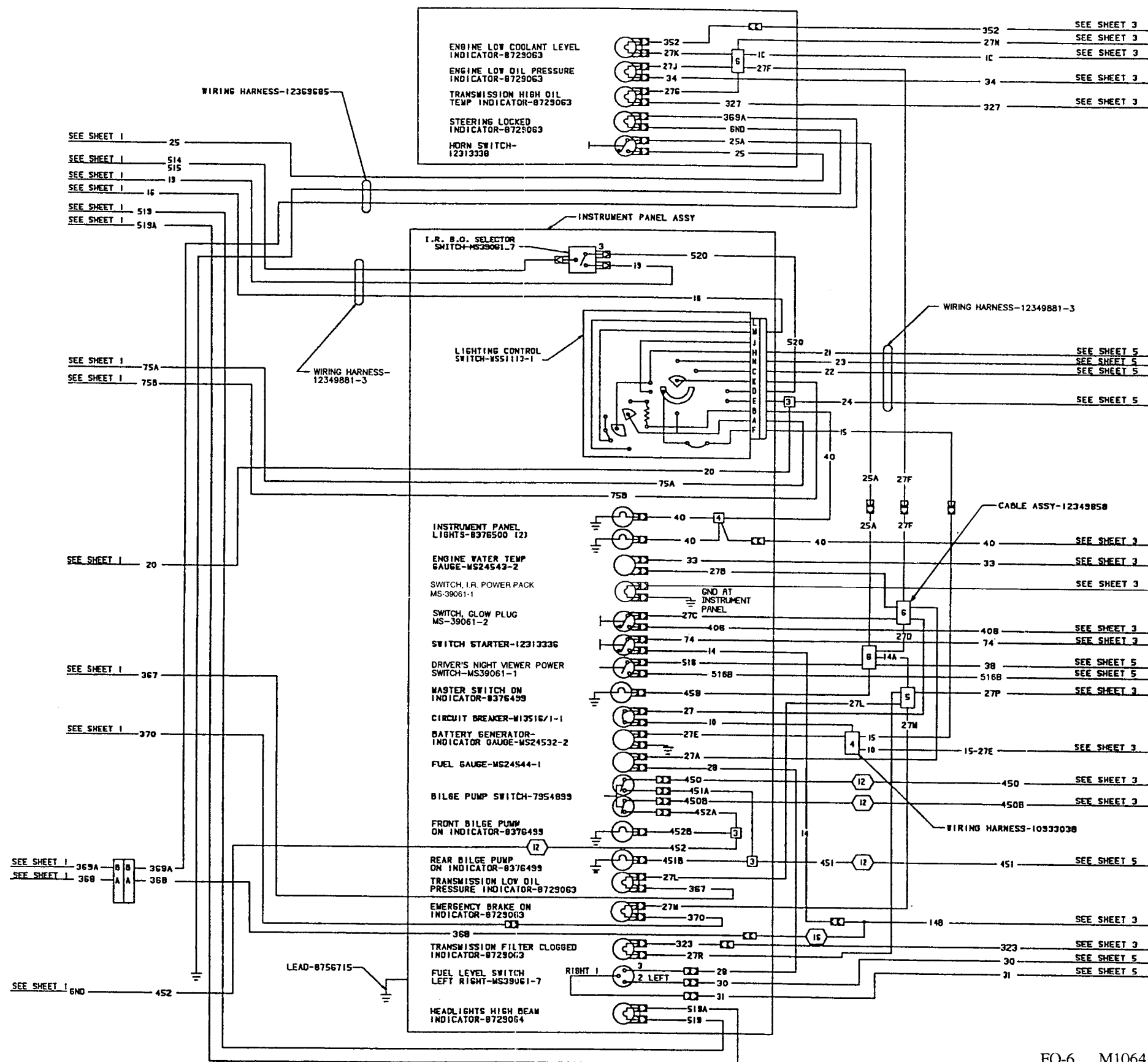


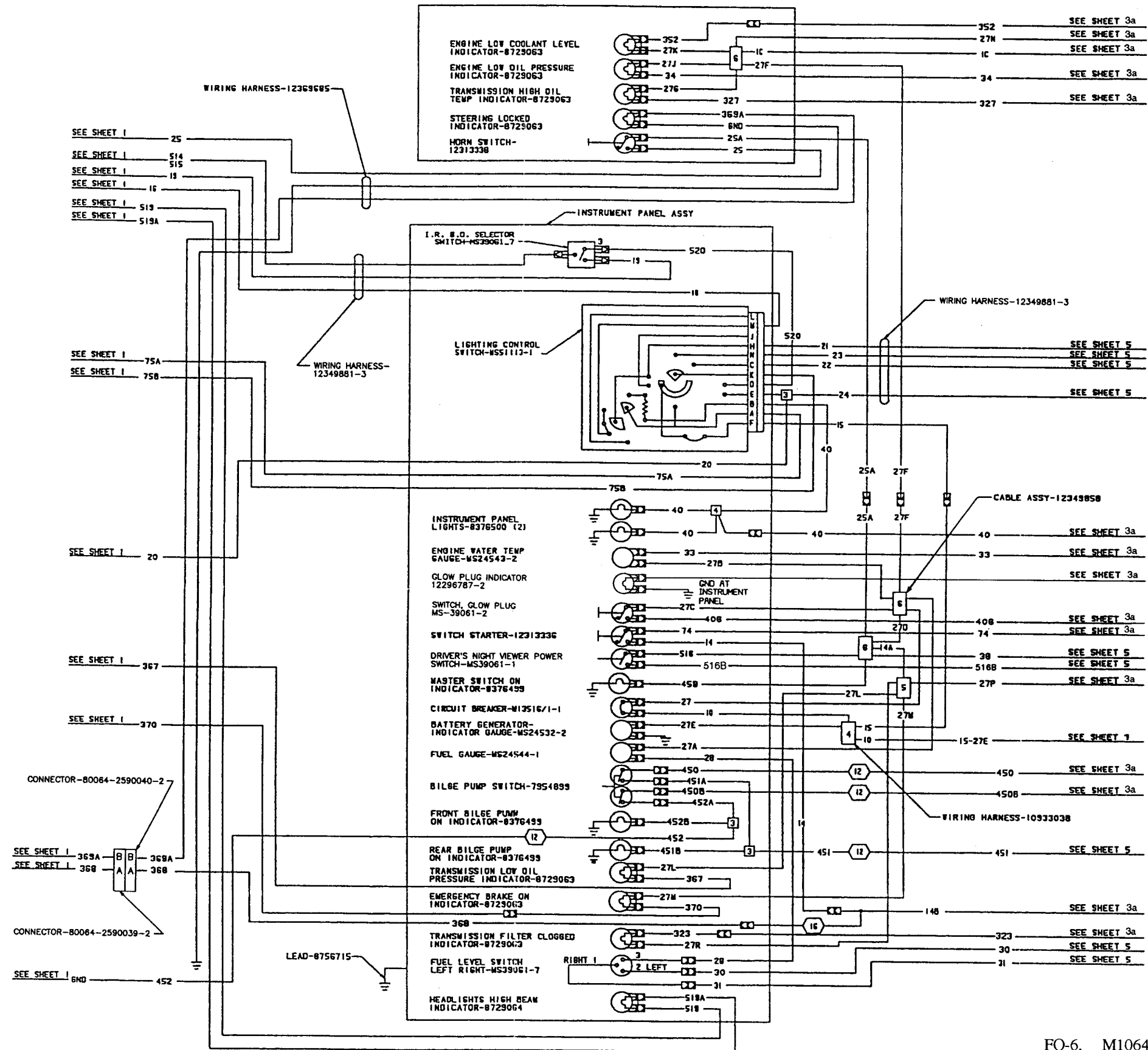




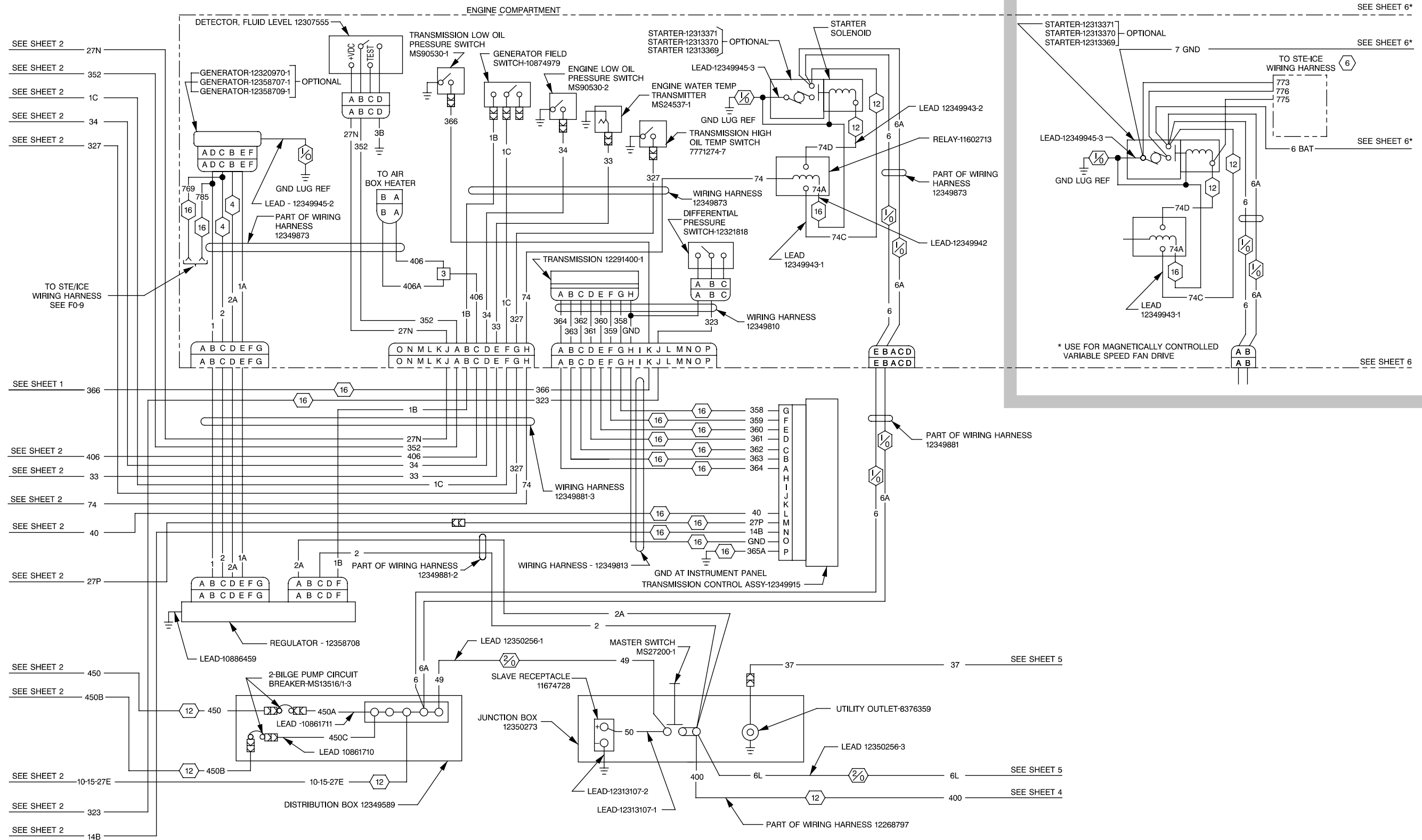
NOTE
ALL WIRES ARE 14 AWG
UNLESS OTHERWISE SPECIFIED
IN HEX SYMBOL



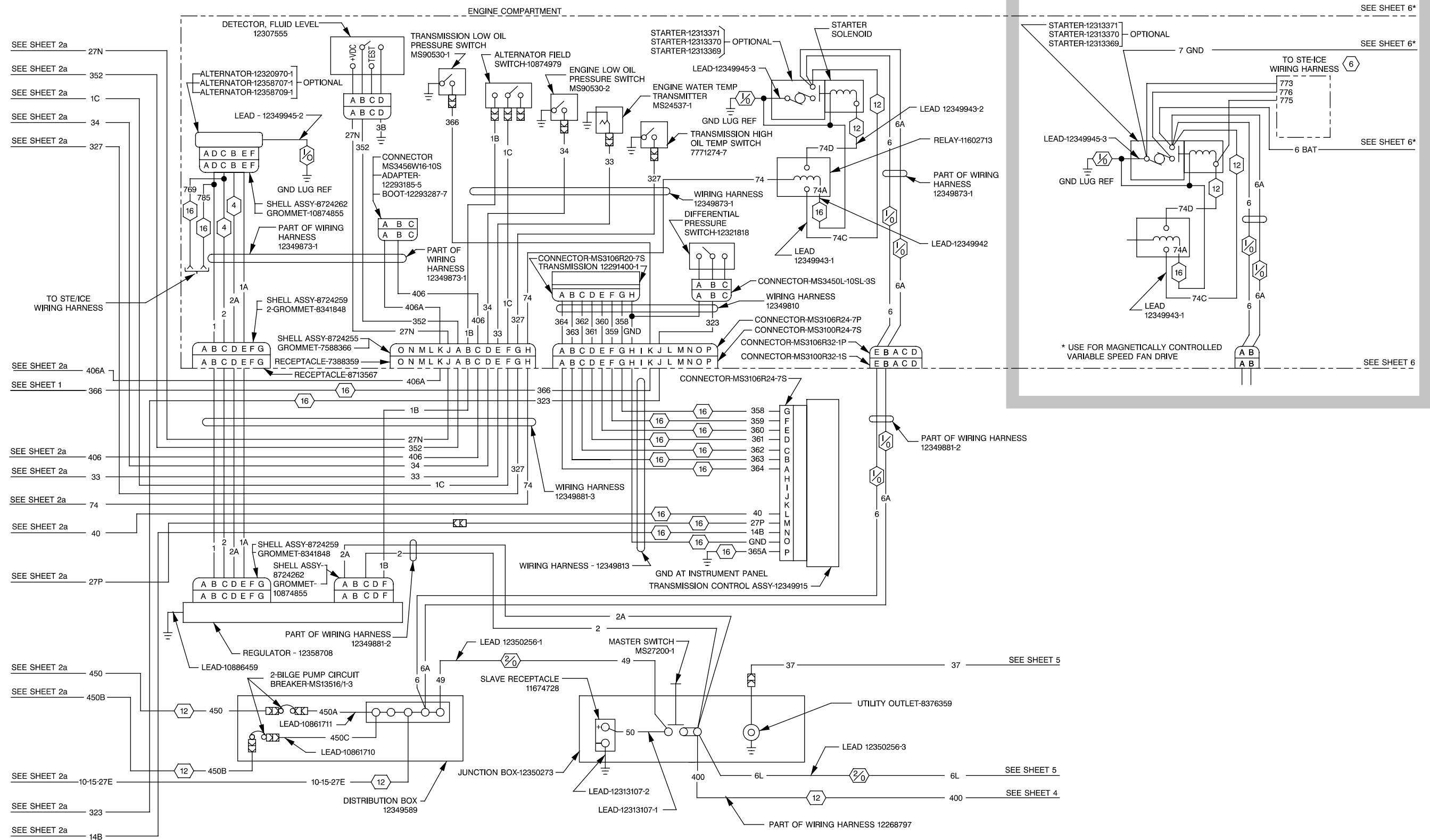




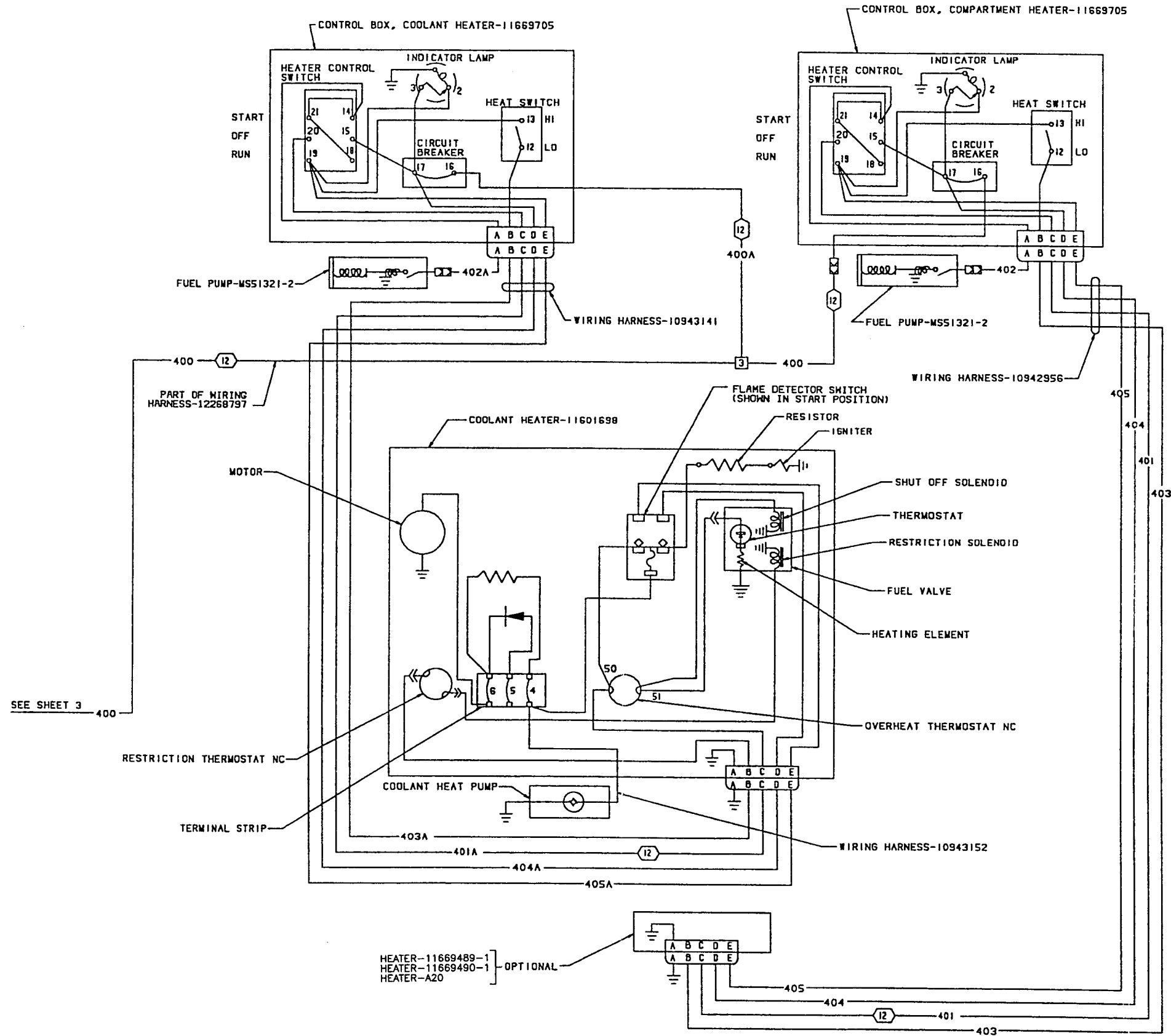
FO-6. M1064A3 Electrical (Late) (Sheet 2a)

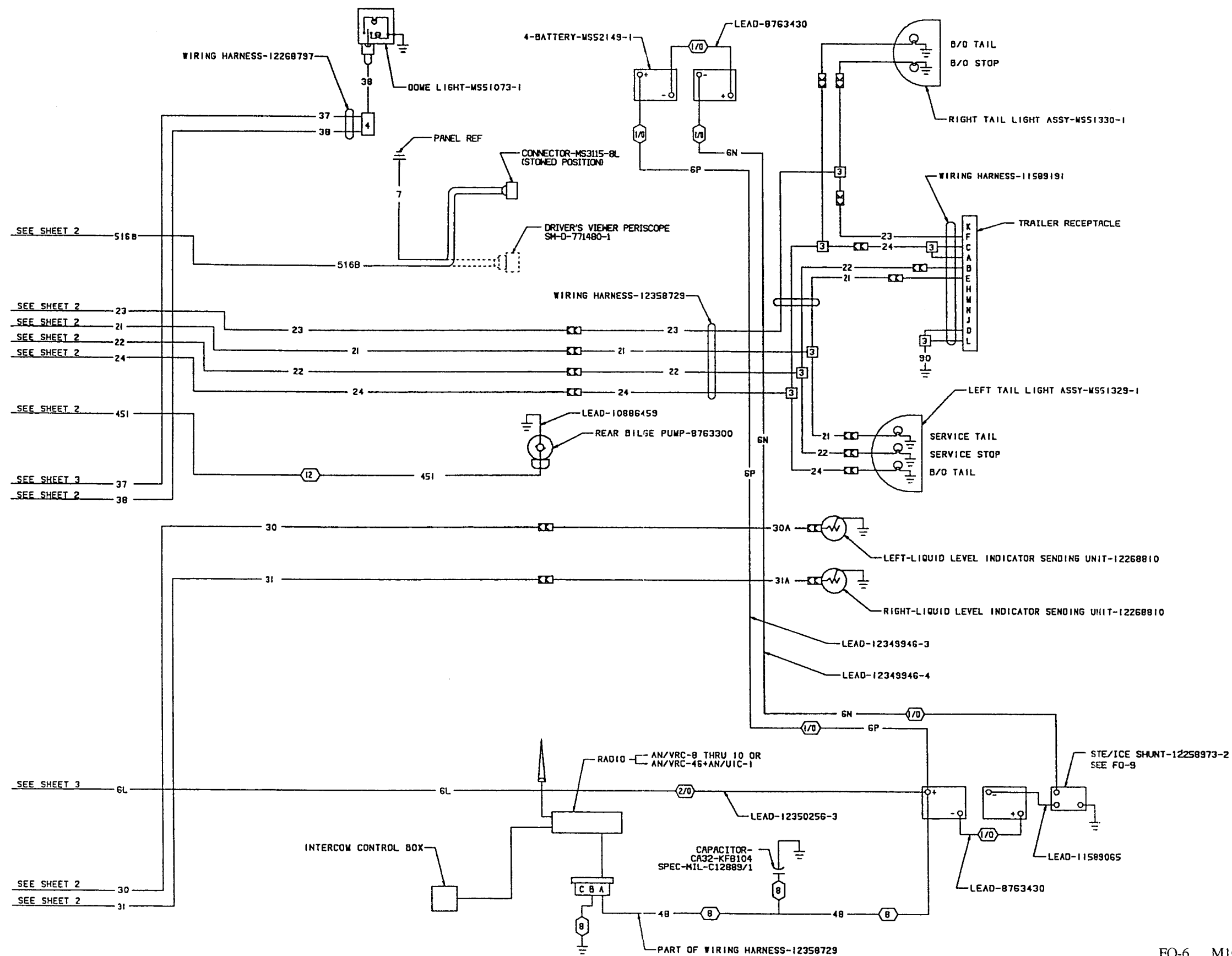


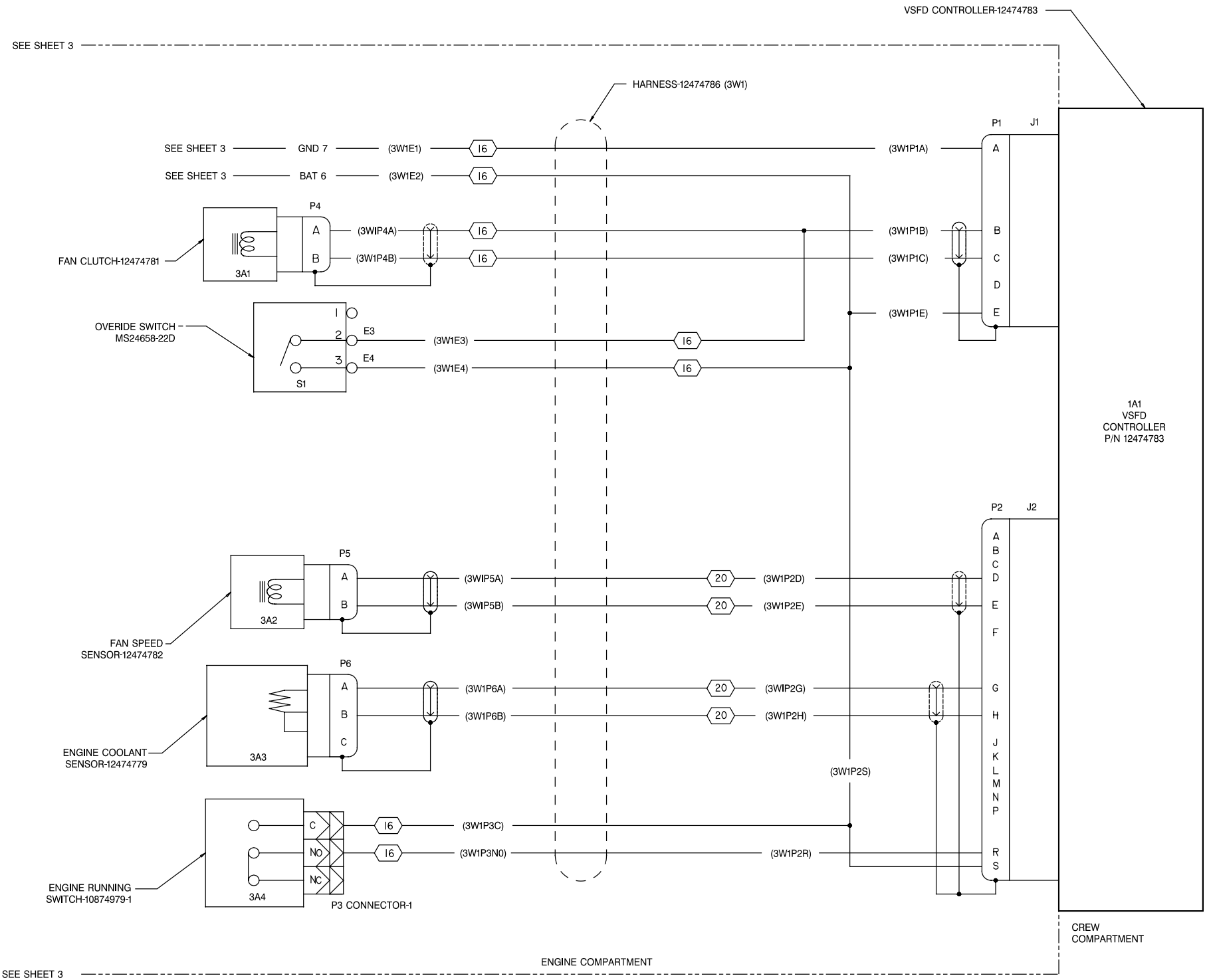
FO-6, M1064A3 Electrical (Early) (Sheet 3)

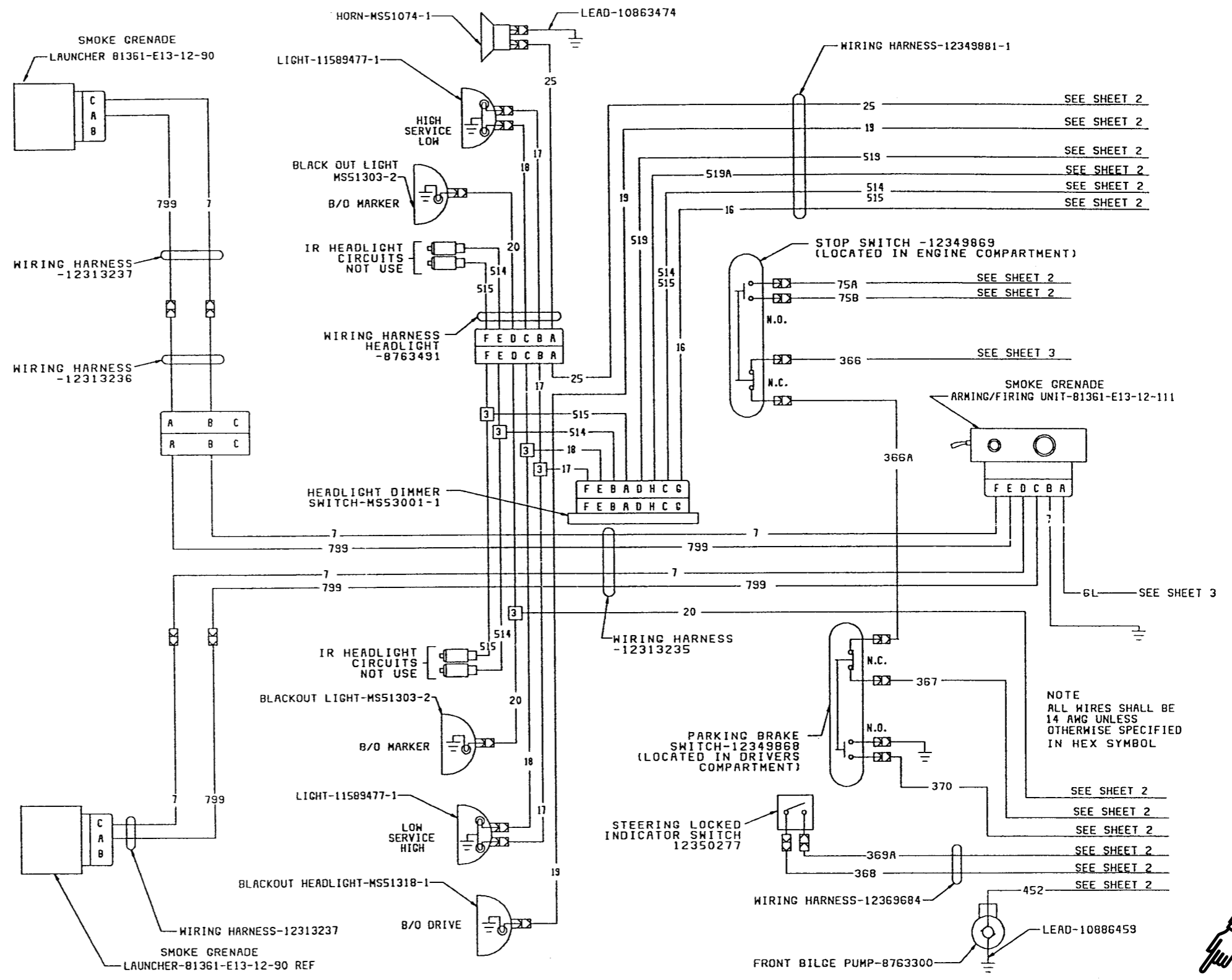


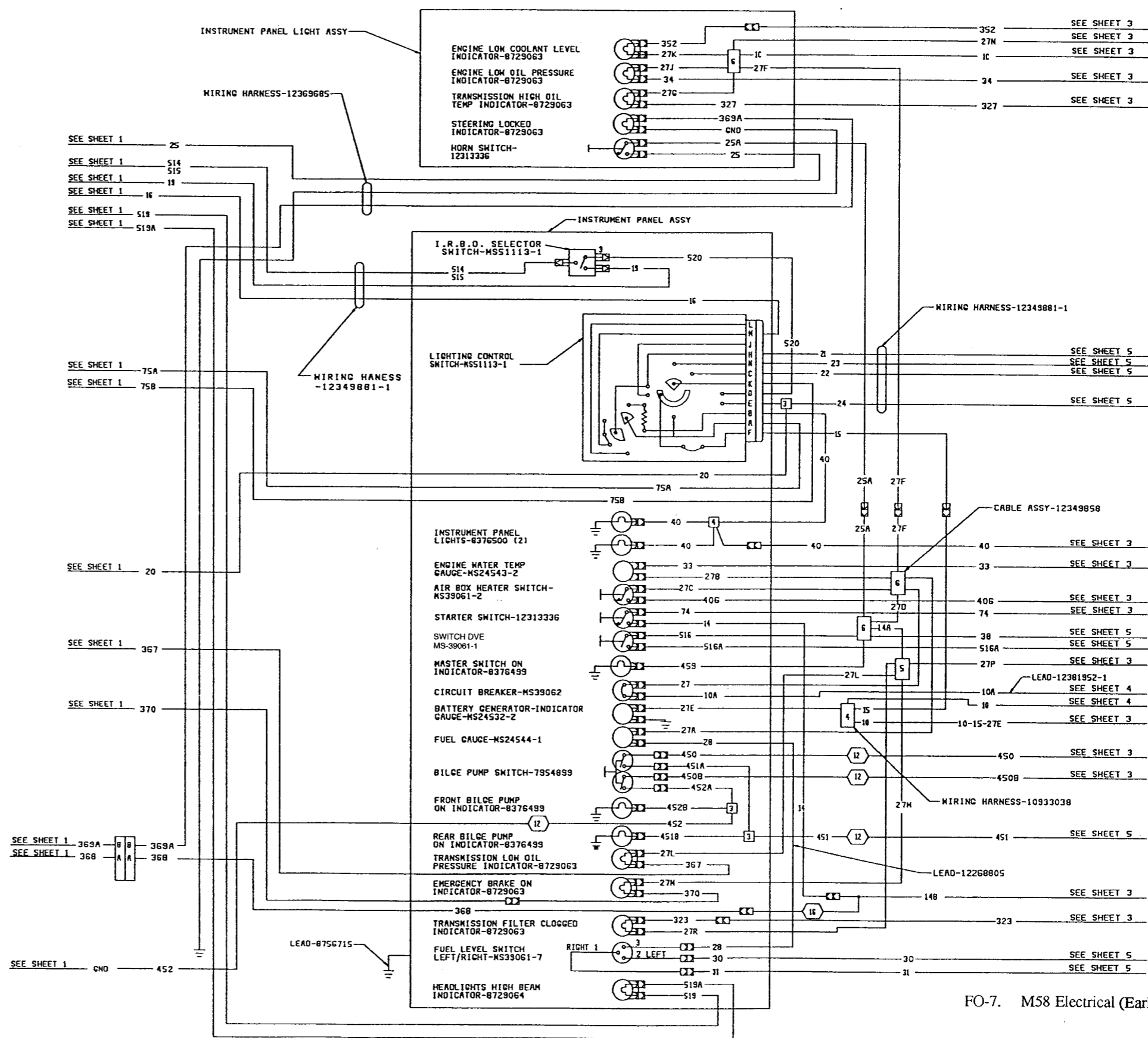
FO-6. M1064A3 Electrical (Late) (Sheet 3a)



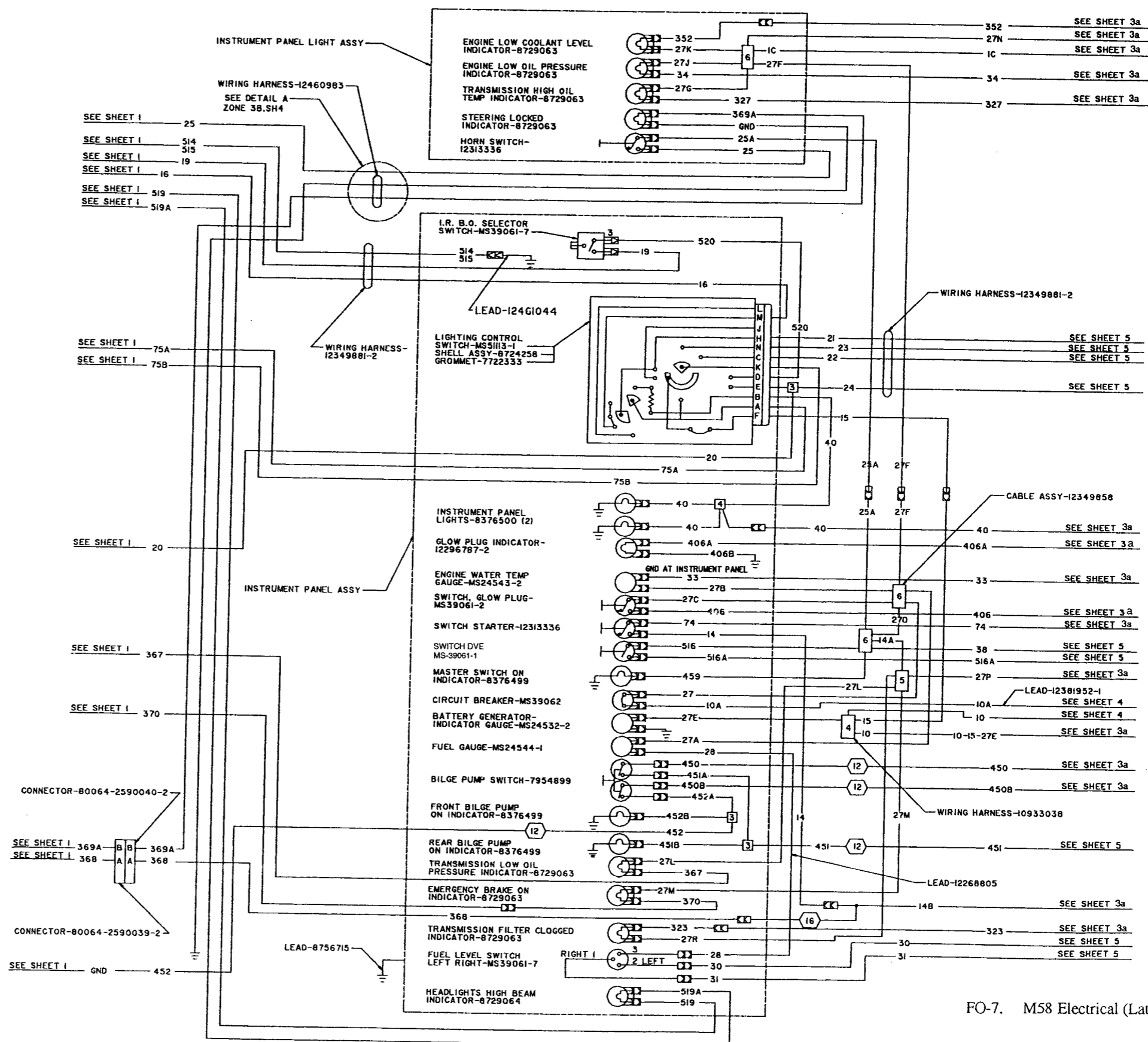




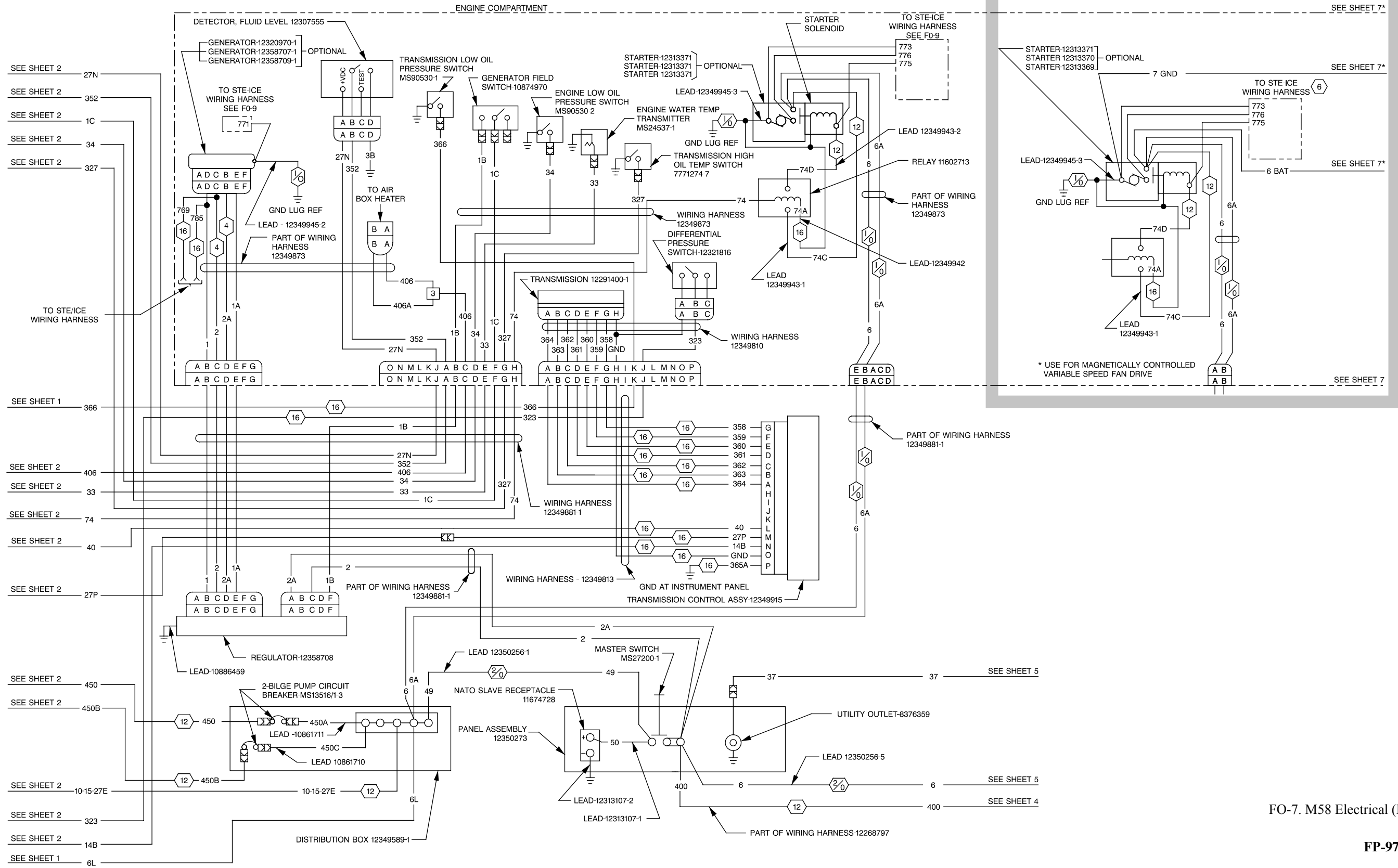




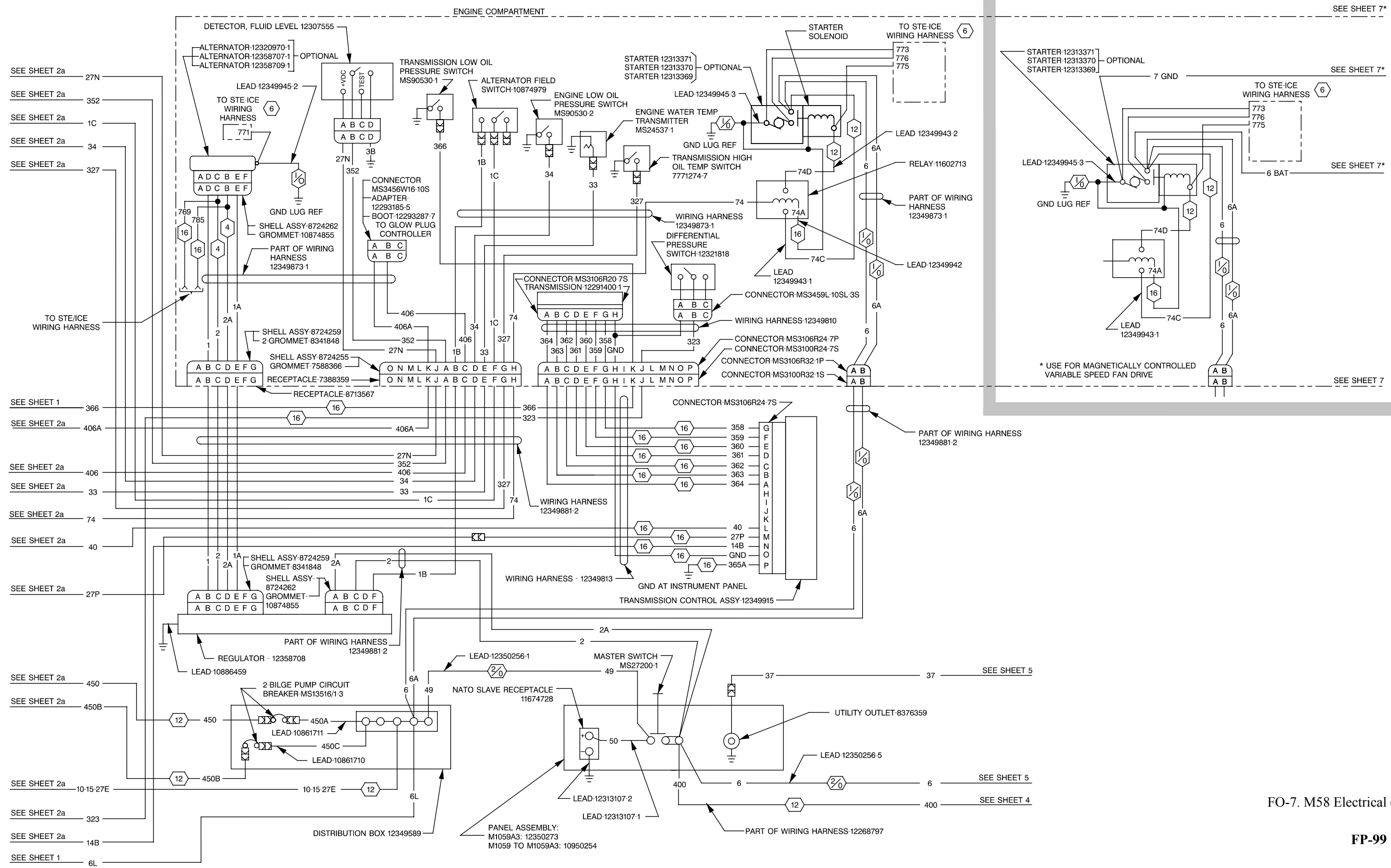
FO-7. M58 Electrical (Early) (Sheet 2)



FO-7. M58 Electrical (Late) (Sheet 2a)

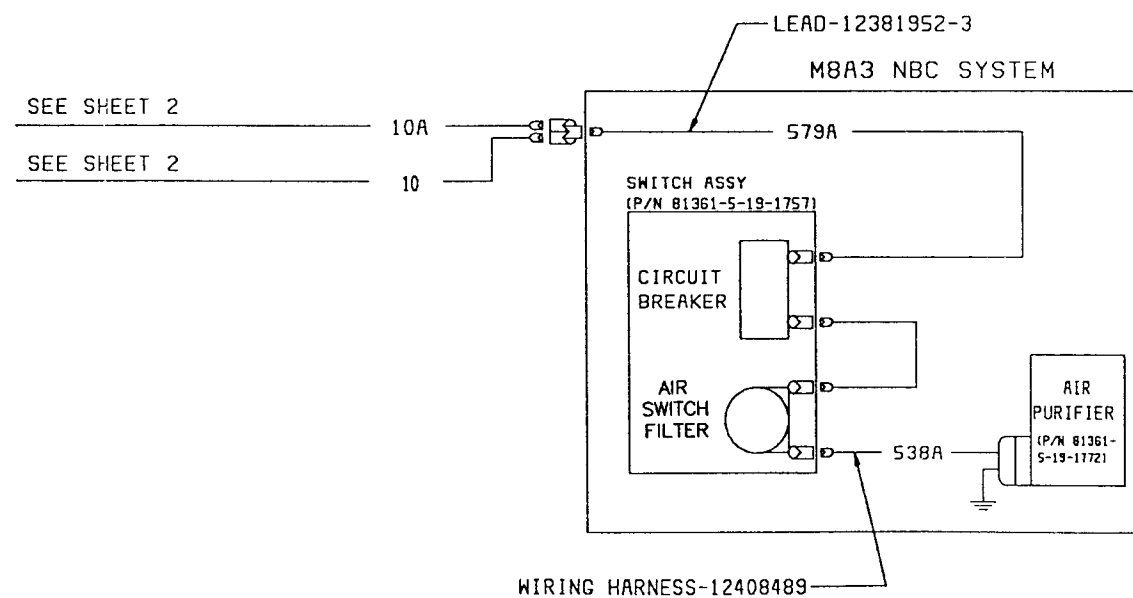
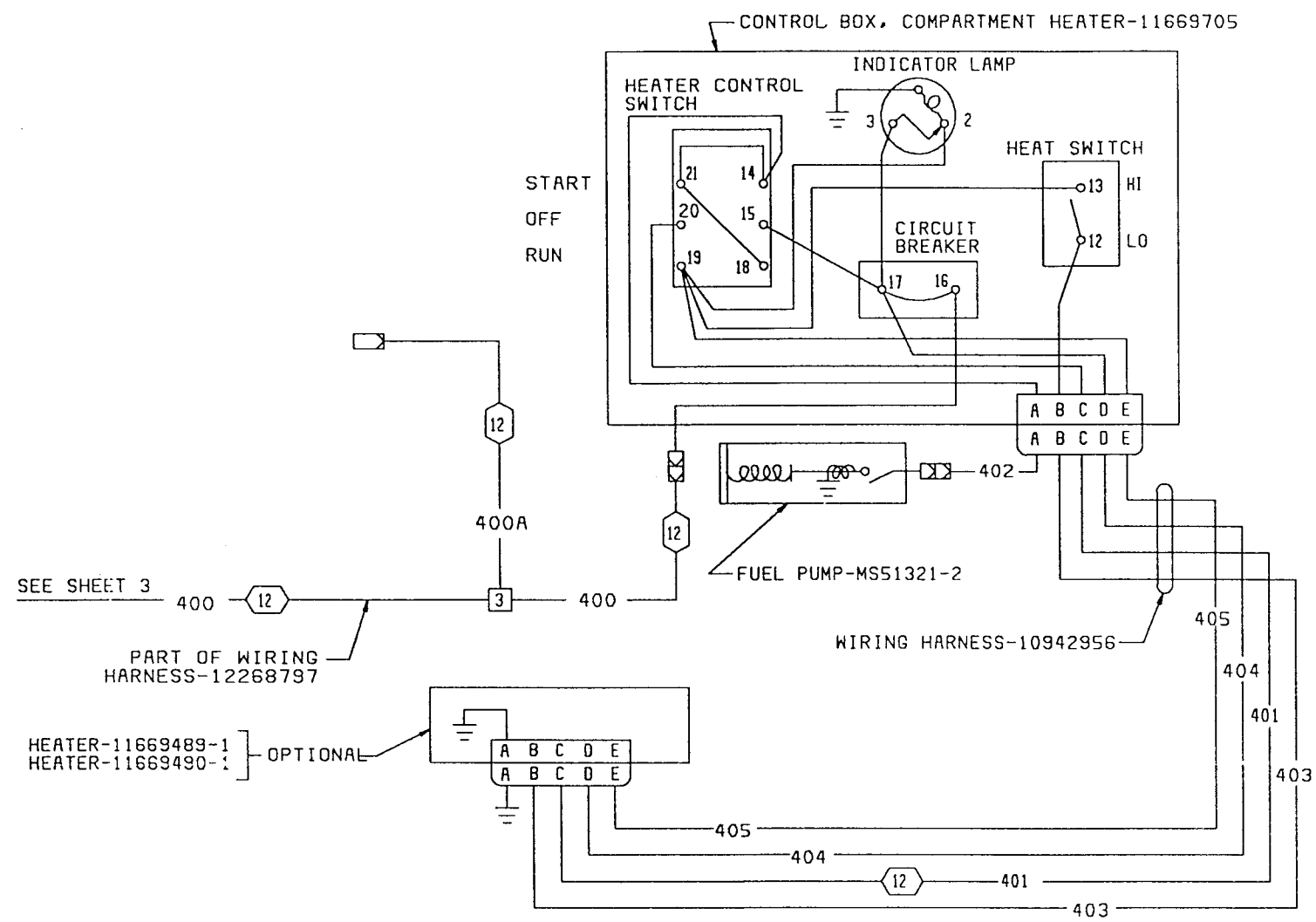


FO-7. M58 Electrical (Early) (Sheet 3)

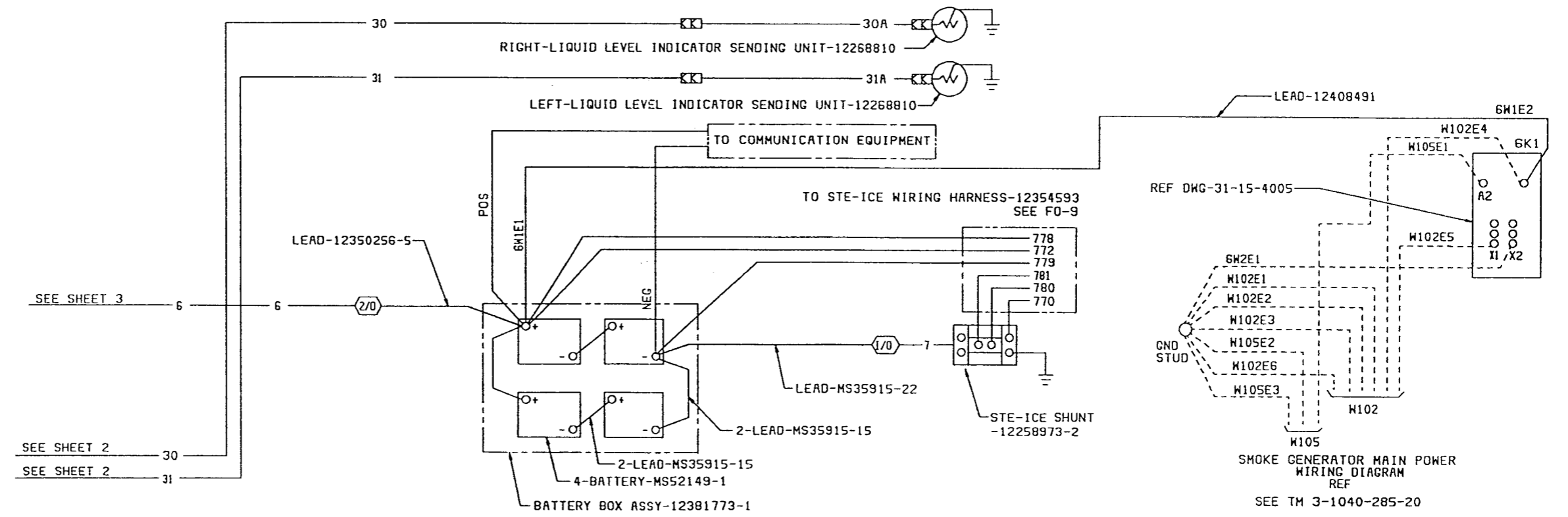
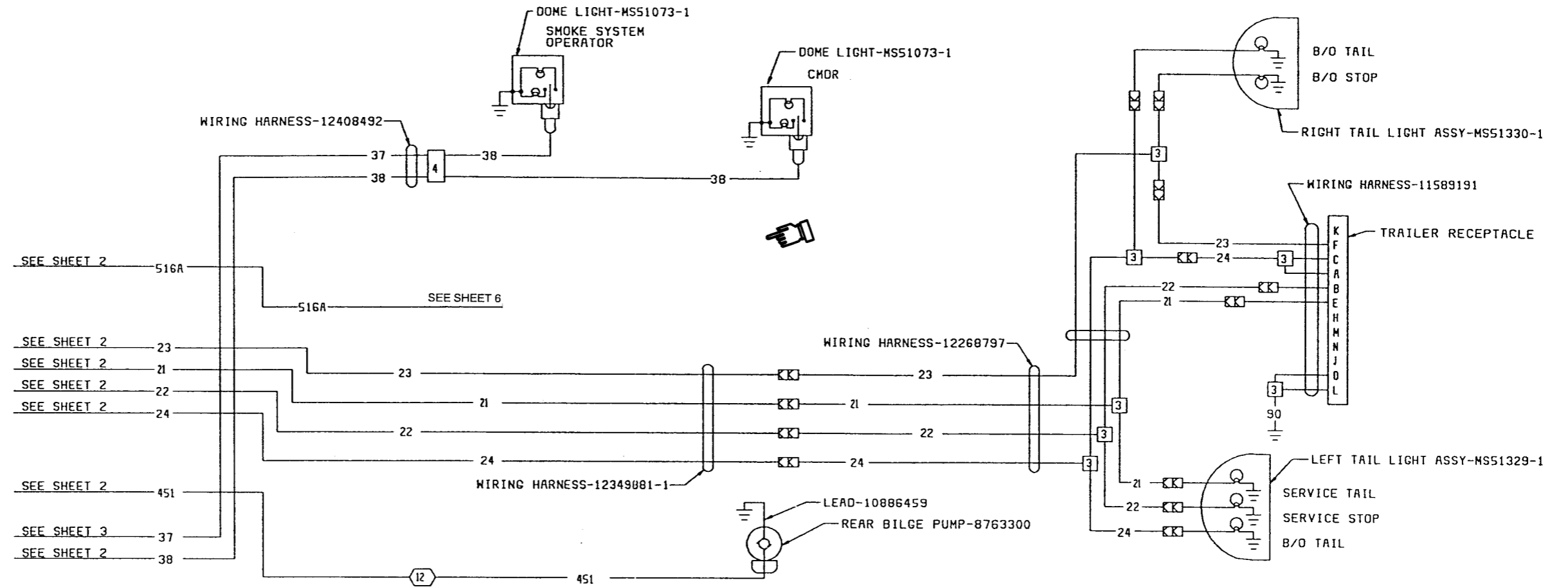


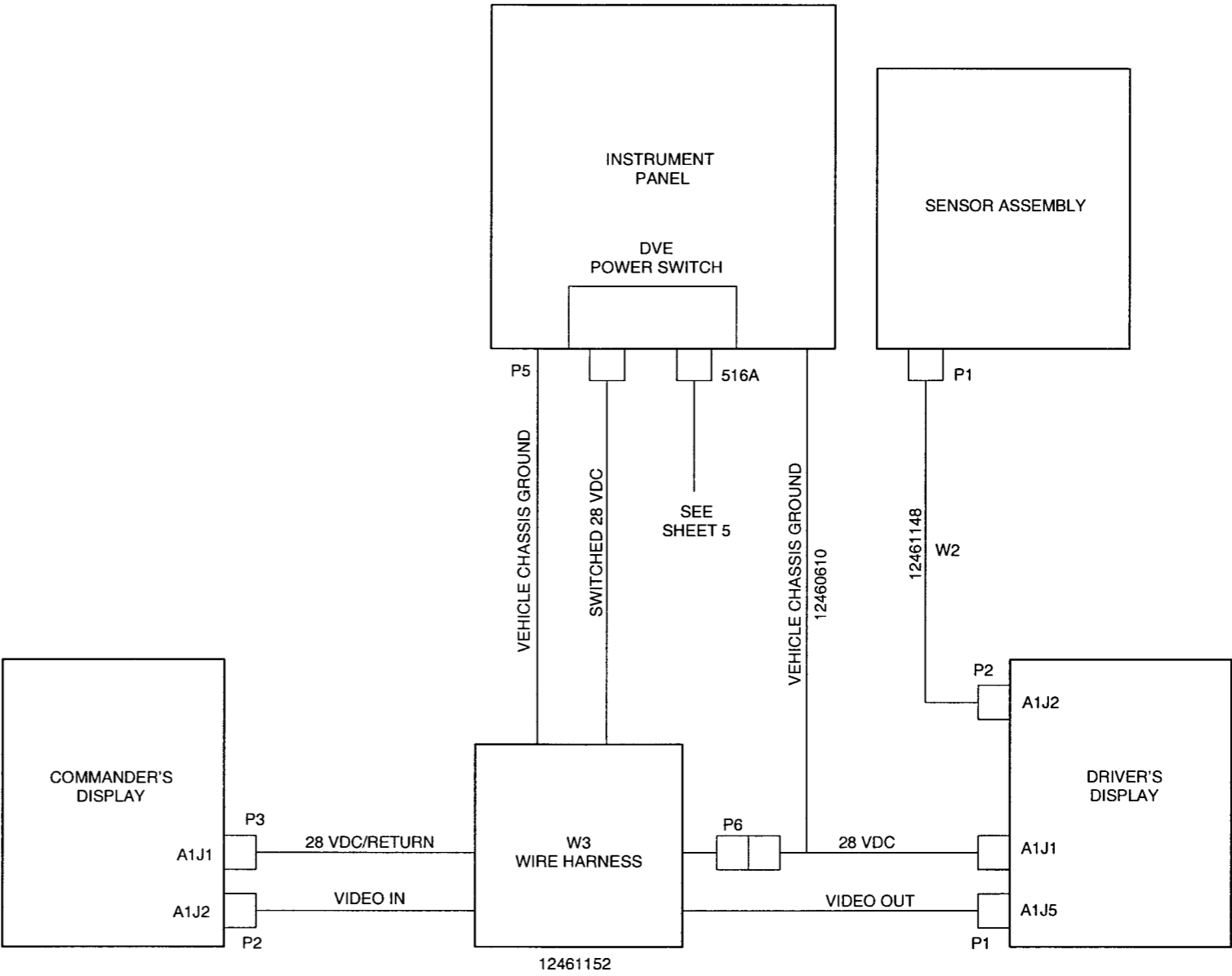
FO-7. M58 Electrical (Late) (Sheet 3a)

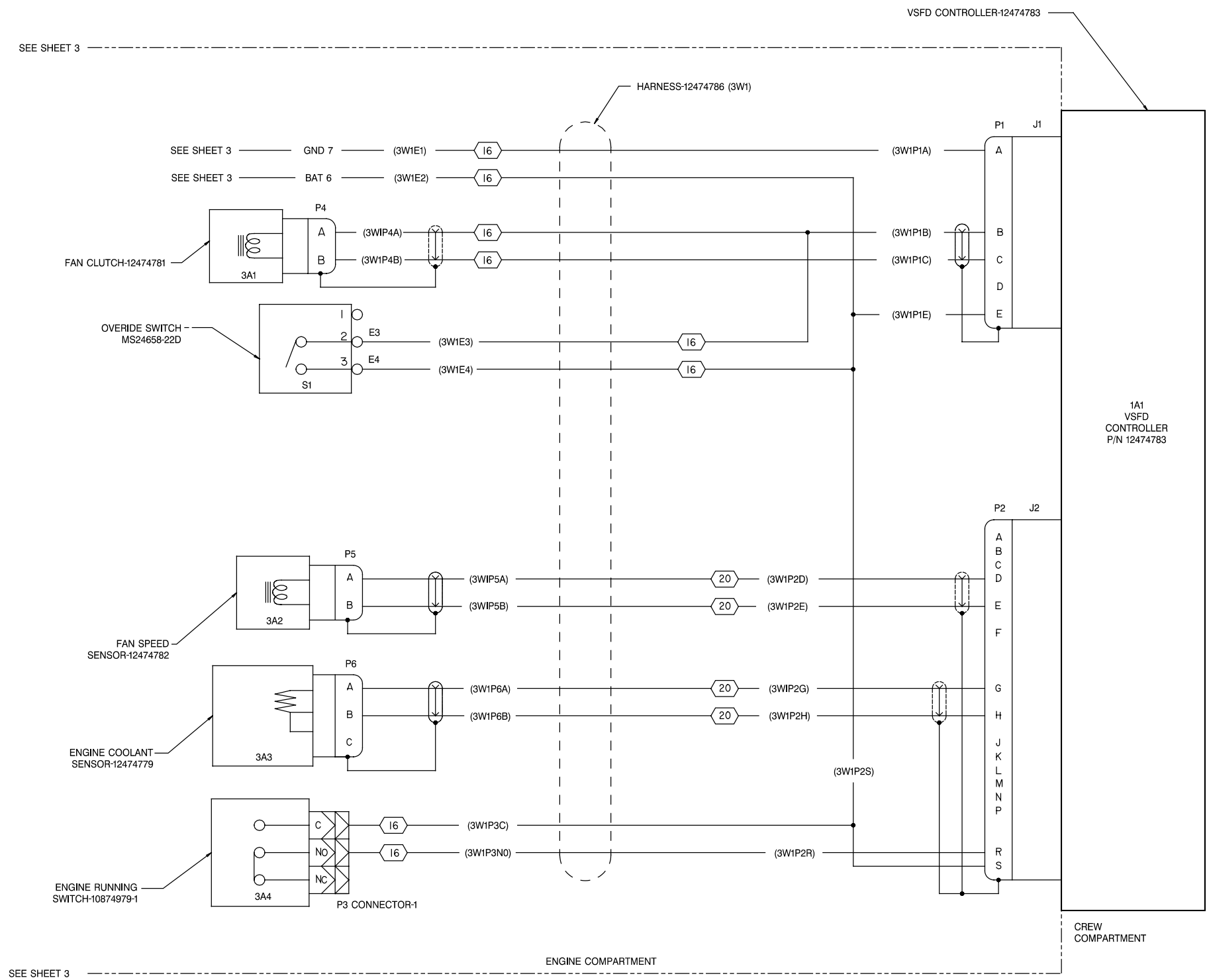
FP-99 (FP-100 blank) Change 3

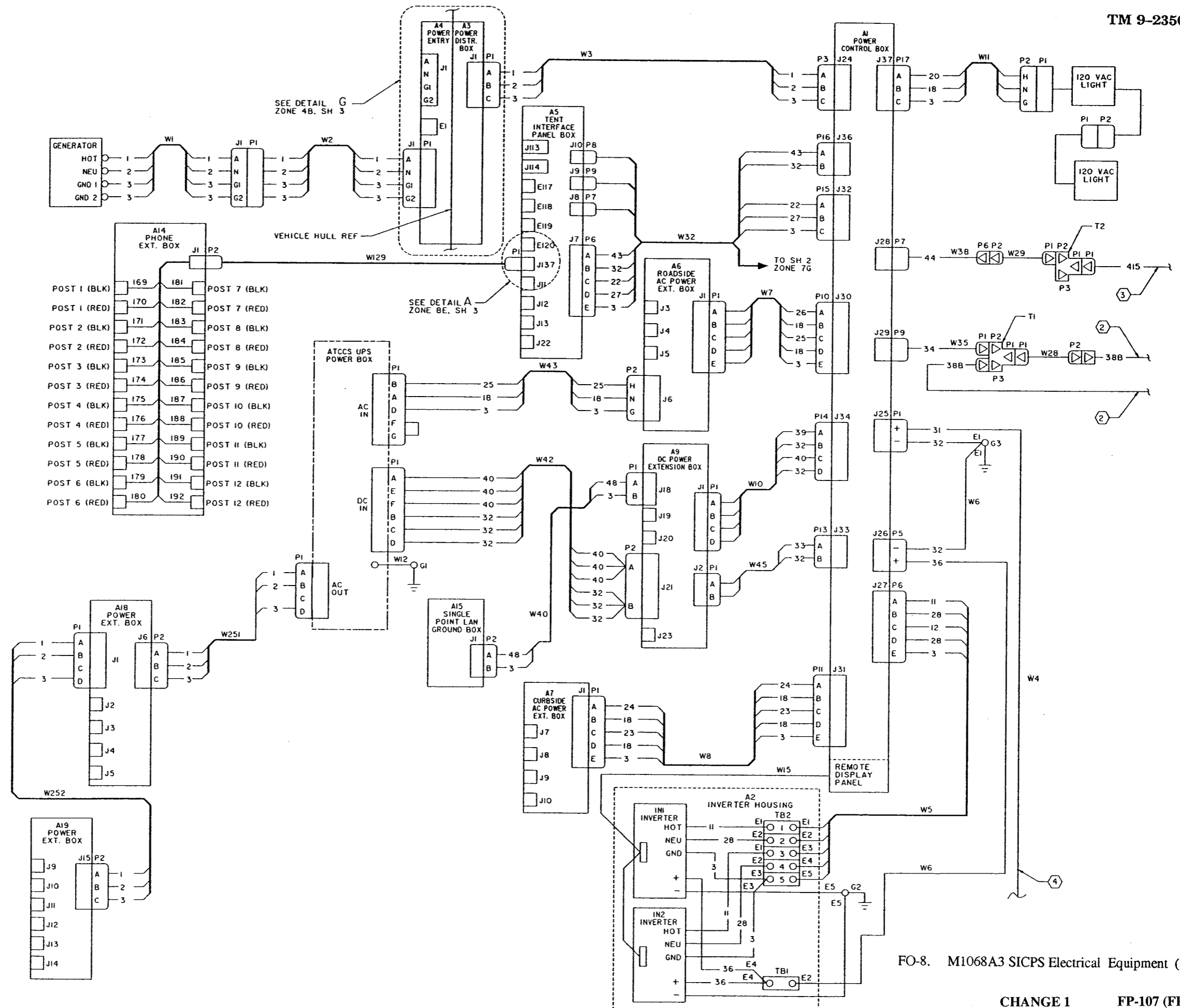


FO-7. M58 Electrical (Sheet 4)

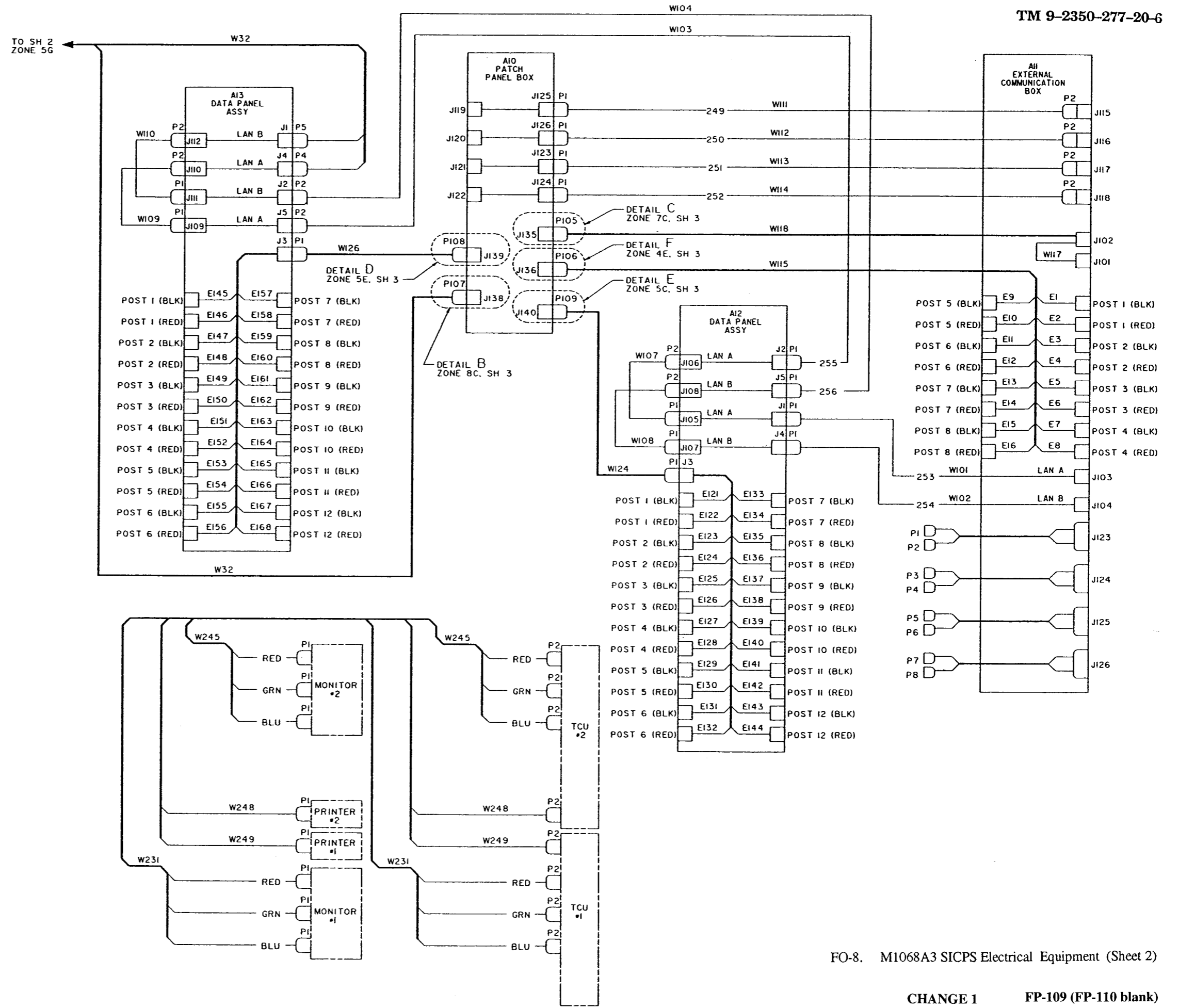




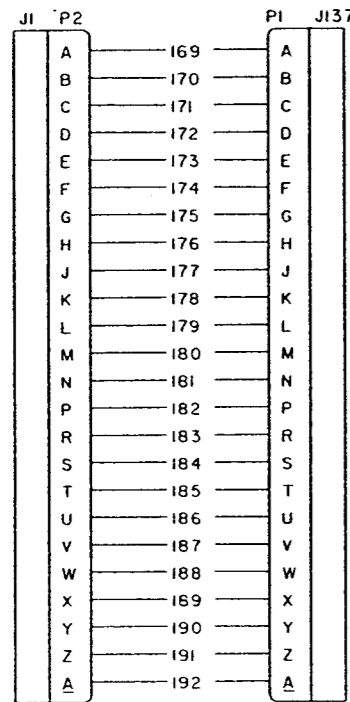




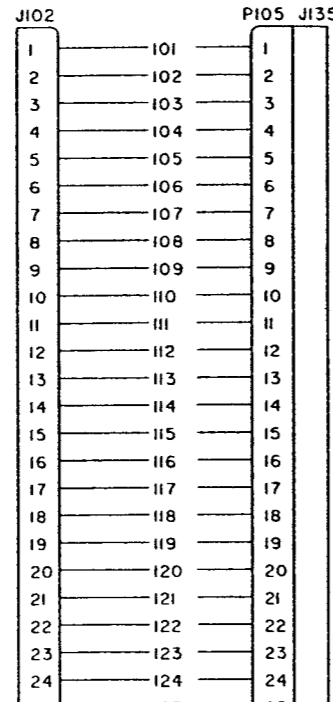
FO-8. M1068A3 SICPS Electrical Equipment (Sheet 1 of 3)



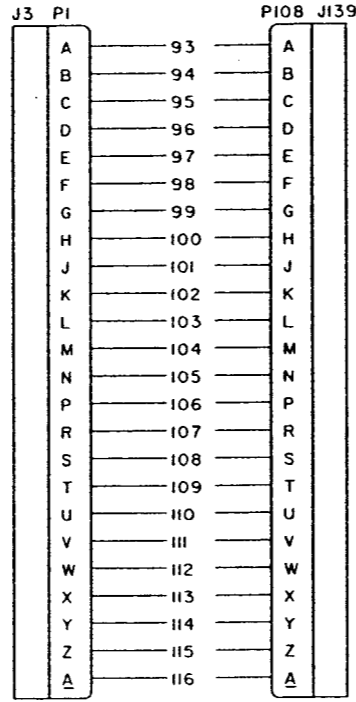
FO-8. M1068A3 SICPS Electrical Equipment (Sheet 2)



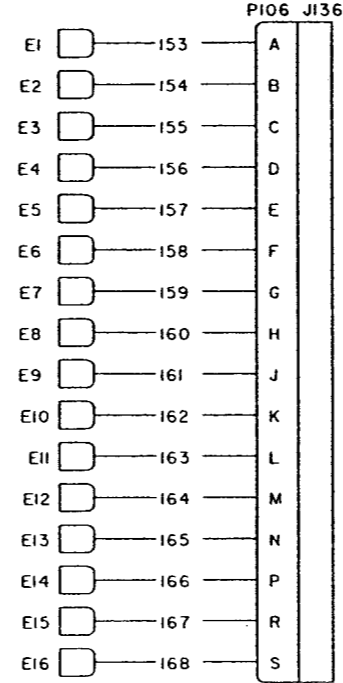
DETAIL A
PINOUTS FOR A14J1 AND A10J137
ZONE 6F, SH 1



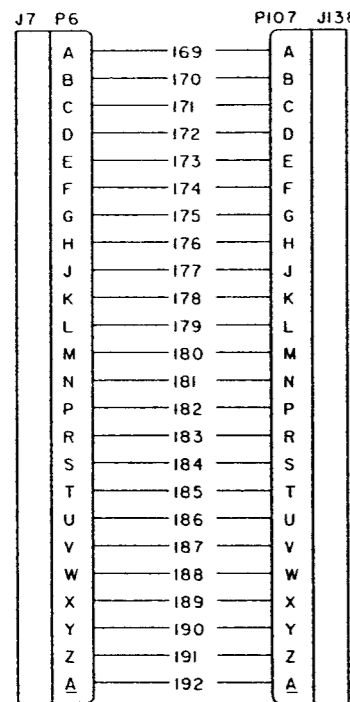
DETAIL C
PINOUTS FOR A11J102 AND A10J135
ZONE 4F, SH 2



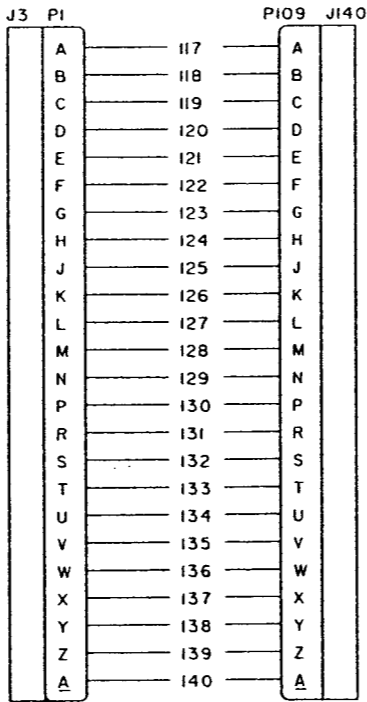
DETAIL D
PINOUTS FOR A13J3 AND A10J139
ZONE 6F, SH 2



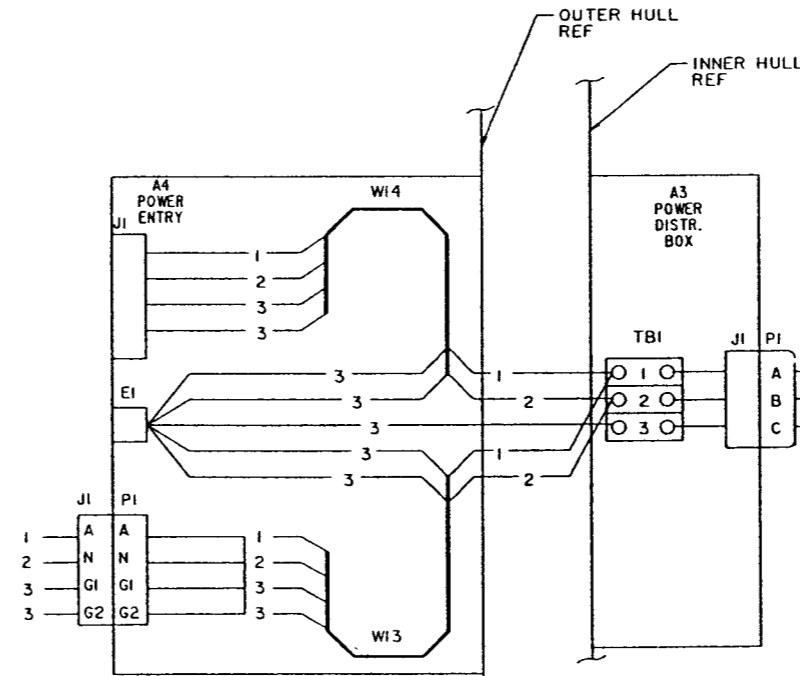
DETAIL F
PINOUTS FOR A11 POST AND A10J136
ZONE 5F, SH 2



DETAIL B
PINOUTS FOR A5J8 AND A10J138
ZONE 5E, SH 2

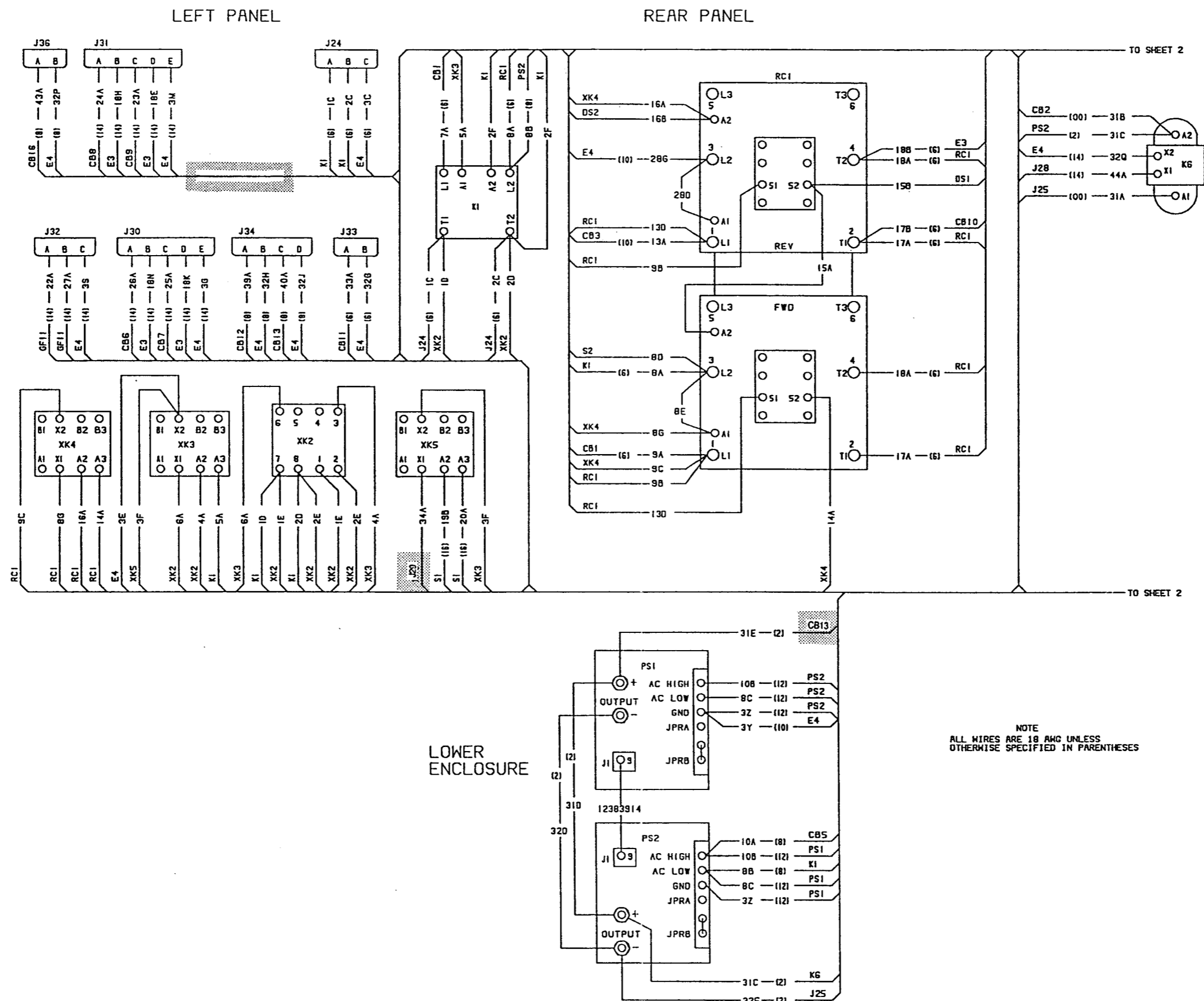


DETAIL E
PINOUTS FOR A12J3 AND A10J140
ZONE 4F, SH 2



DETAIL G
ZONE 6H, SH 2

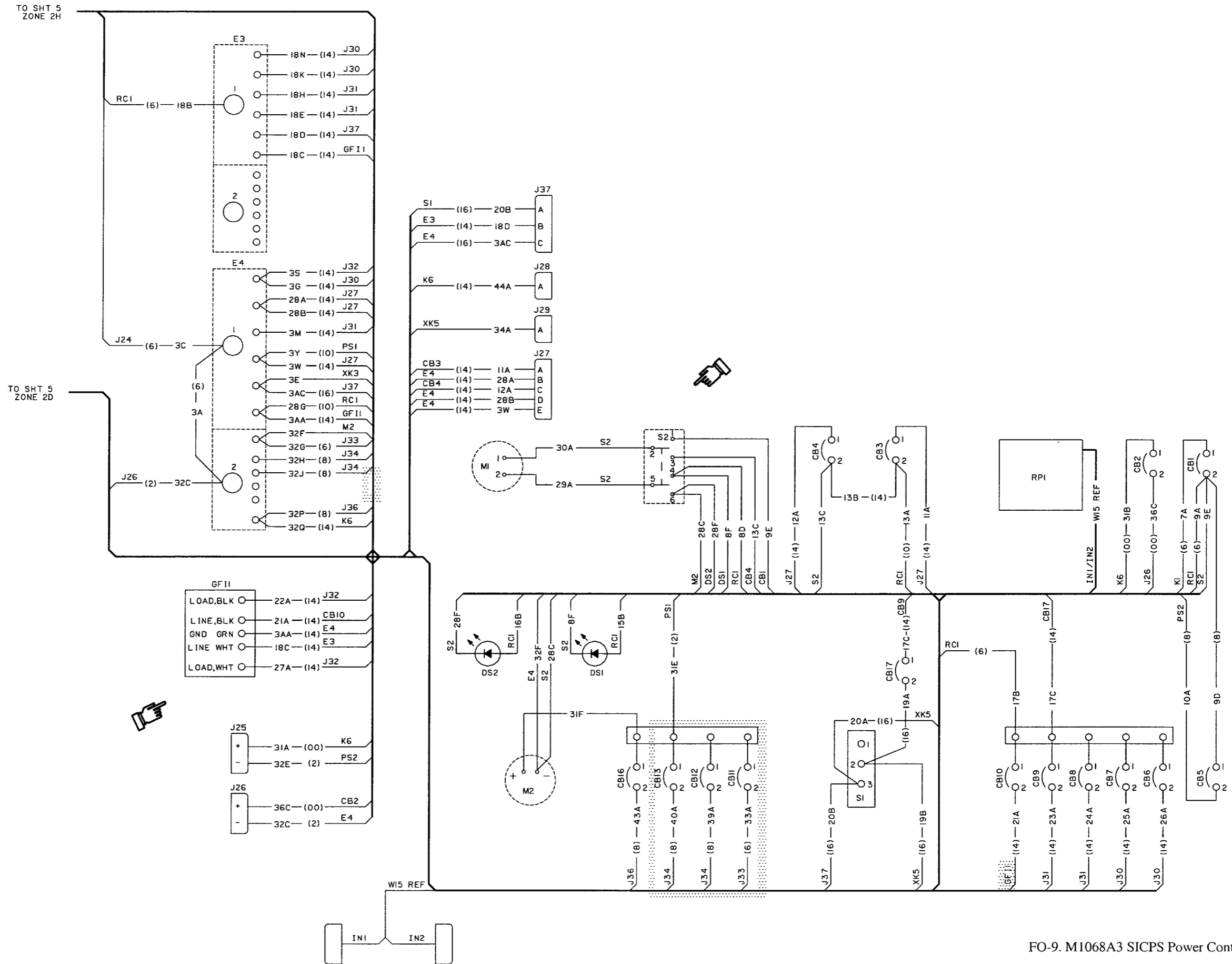
REF DESIG.	NOMENCLATURE	PART NUMBER	ZONE, SH
A1	POWER CONTROL ENCLOSURE	12408455-1	4H, SH 2
A2	INVERTER HOUSING	12383973	4B, SH 2
A3	POWER DISTRIBUTION BOX	12383977	6H, SH 2
A4	POWER ENTRY	12383982	6H, SH 2
A5	TENT INTERFACE PANEL BOX	12383862-1	5G, SH 2
A6	ROADSIDE AC POWER EXTENSION BOX	12383854-1	5F, SH 2
A7	CURBSIDE AC POWER EXTENSION BOX	12383854-2	5C, SH 2
A9	DC POWER EXTENSION BOX	12383859	5E, SH 2
A10	PATCH PANEL BOX	12383948	5G, SH 3
A11	EXTERNAL COMMUNICATION BOX	12383967-1	3G, SH 3
A12	DATA PANEL ASSY	12383883-3	4E, SH 3
A13	DATA PANEL ASSY	12383883-4	6G, SH 3
A14	PHONE EXTENSION BOX	12383919	7F, SH 2
A15	SINGLE POINT LAN GROUND BOX	12383920-1	6C, SH 2
A18	POWER EXTENSION BOX	12408396	6C, SH 2
A19	POWER EXTENSION BOX	12408397	6B, SH 2
---	ATCCS UPS POWER BOX	---	6F, SH 2
---	VEHICLE BATTERY	---	3B, SH 2
W1	EXTERNAL POWER INPUT PIGTAIL	12383915	8G, SH 2
W2	EXTERNAL AC POWER CABLE	12383864	7G, SH 2
W3	POWER DISTRIBUTION CABLE	12383899	5H, SH 2
W4	DC BATTERY CABLE	12382525	3B, SH 2
W5	INVERTER AC CABLE	12383900	3B, SH 2
W6	INVERTER DC CABLE	12382524	3B,3E, SH 2
W7	AC POWER EXTENSION CABLE	12384084-1	4F, SH 2
W8	AC POWER EXTENSION CABLE	12384084-2	5C, SH 2
W10	DC POWER EXTENSION CABLE	12384082-2	4E, SH 2
W11	AC LIGHT CABLE	12383861	3H, SH 2
W12	GROUND STRAP	12383863	6D, SH 2
W13	CABLE ASSY POWER INPUT	12382097	4D, SH 4
W14	CABLE ASSY POWER OUTPUT	12382099	4C, SH 4
W15	SPECIAL PURPOSE CABLE ASSY	12384233	4C, SH 2
W28	BLACKOUT LIGHT ADAPTER CABLE	12383880-1	2F, SH 2
W29	BLACKOUT LIGHT ADAPTER CABLE	12383880-2	2F, SH 2
W32	TENT INTERFACE PANEL CABLE	12384081	5G, SH 2
W35	BLACKOUT CABLE	12383904	3F, SH 2
W38	DC MASTER SWITCH CABLE	12383913	3F, SH 2
W40	SINGLE POINT LAN CABLE	12383924	6C, SH 2
W42	DC INPUT CABLE	12383978-1	5E, SH 2
W43	AC INPUT CABLE	12383979-1	5F, SH 2
W45	CABLE ASSY	12384083	4D, SH 2
W101	LAN A CABLE	12383870-3	3E, SH 3
W102	LAN B CABLE	12383870-4	3D, SH 3
W103	LAN A CABLE	12383871-9	4H, SH 3
W104	LAN B CABLE	12383871-10	4G, SH 3
W107	LAN JUMPER CABLE	12383871-11	5E, SH 3
W108	LAN JUMPER CABLE	12383871-12	5E, SH 3
W109	LAN JUMPER CABLE	12383871-13	7G, SH 3
W110	LAN JUMPER CABLE	12383871-14	7F, SH 3
W111	RF1 CABLE	12383869-1	4G, SH 3
W112	RF2 CABLE	12383869-2	4G, SH 3
W113	RF3 CABLE	12383869-3	4G, SH 3
W114	RF4 CABLE	12383869-4	4F, SH 3
W115	BINDING POSTS CABLE	12383908	4F, SH 3
W117	CABLE HOOK CABLE ASSY	12383868	3F, SH 3
W118	CABLE HOOK CABLE ASSY	12383909	4F, SH 3
W124	DATA PANEL CABLE ASSY	12384086-1	6F, SH 3
W126	DATA PANEL CABLE ASSY	12384086-2	5E, SH 3
W129	PHONE BOX EXTENSION CABLE	12383918	6F, SH 2
W231-1	VIDEO EXTENSION CABLE	12383891-1	7B,6B, SH 3
W231-2	VIDEO EXTENSION CABLE	12383891-2	7B,6B, SH 3
W231-3	VIDEO EXTENSION CABLE	12383891-3	7B,6B, SH 3
W245-1	VIDEO EXTENSION CABLE	12383891-4	6C,5C, SH 3
W245-2	VIDEO EXTENSION CABLE	12383891-5	6C,5C, SH 3
W245-3	VIDEO EXTENSION CABLE	12383891-6	6C,5C, SH 3
W248	CABLE ASSY	12382020-1	5B, SH 3
W249	CABLE ASSY	12382020-1	5B, SH 3
W251	POWER EXTENSION CABLE	12408389-1	6C, SH 2
W252	POWER EXTENSION CABLE	12408389-2	6B, SH 2

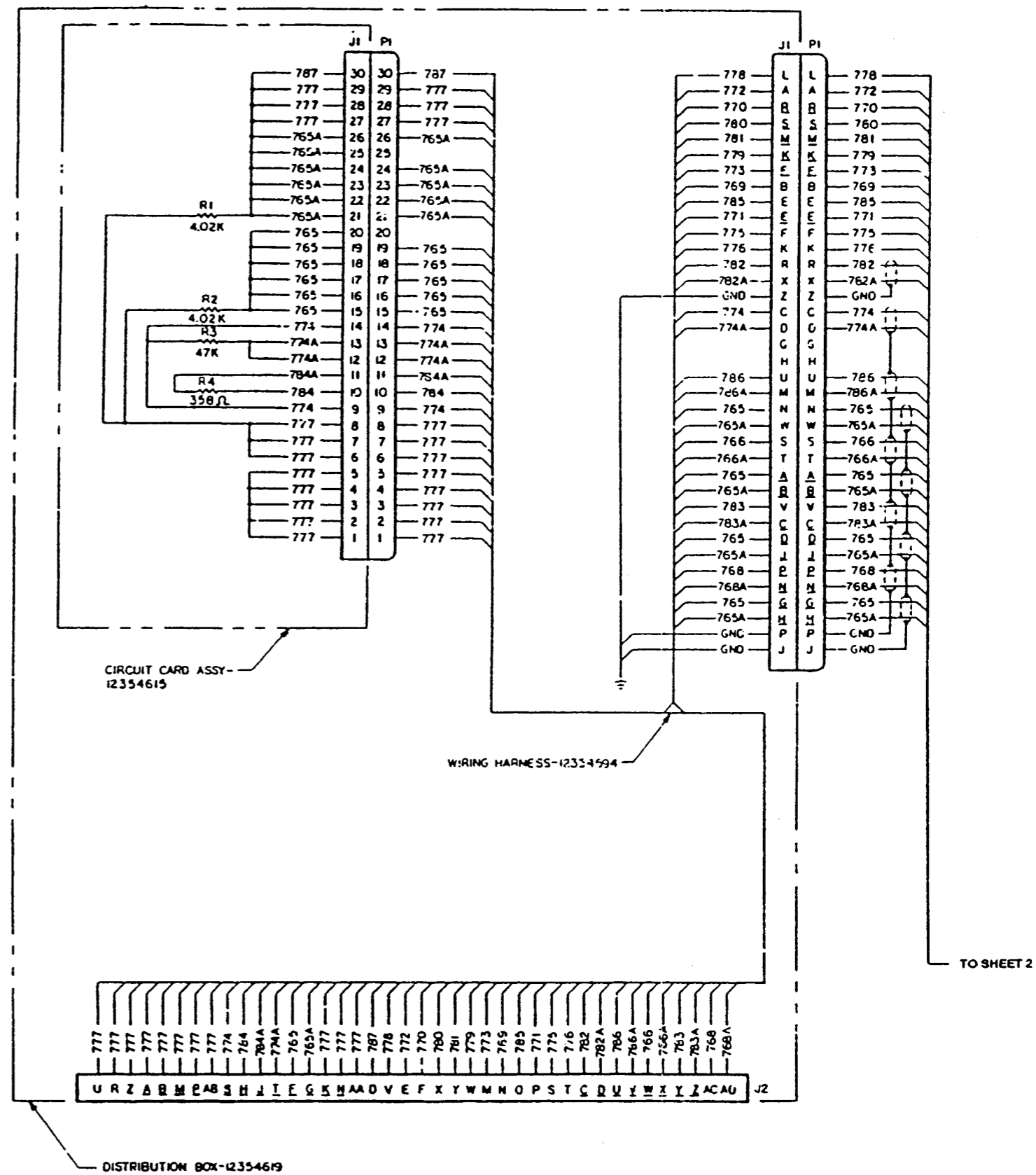


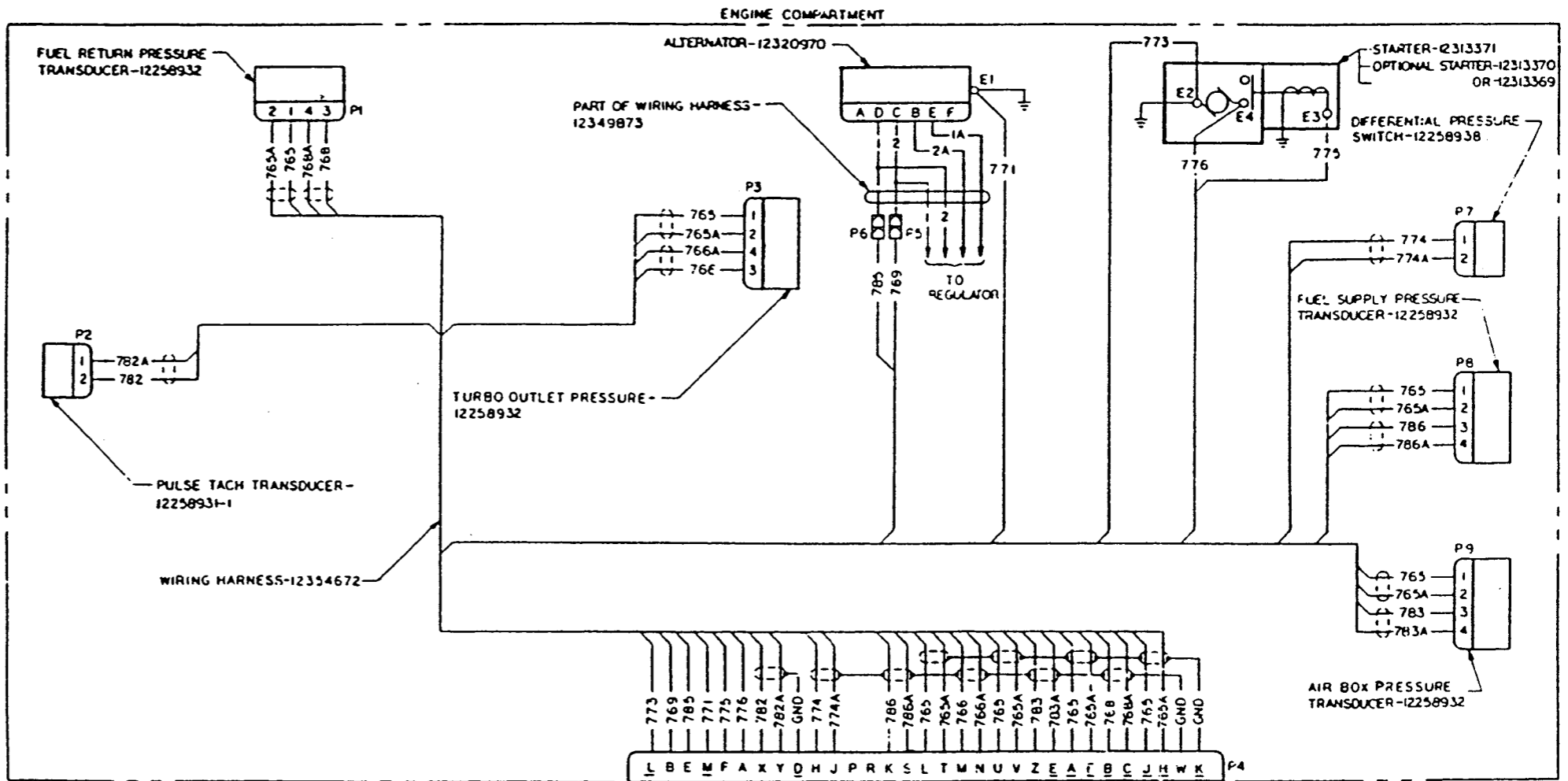
TO SHEET 2

TO SHEET 2

NOTE
ALL WIRES ARE 18 AWG UNLESS
OTHERWISE SPECIFIED IN PARENTHESES

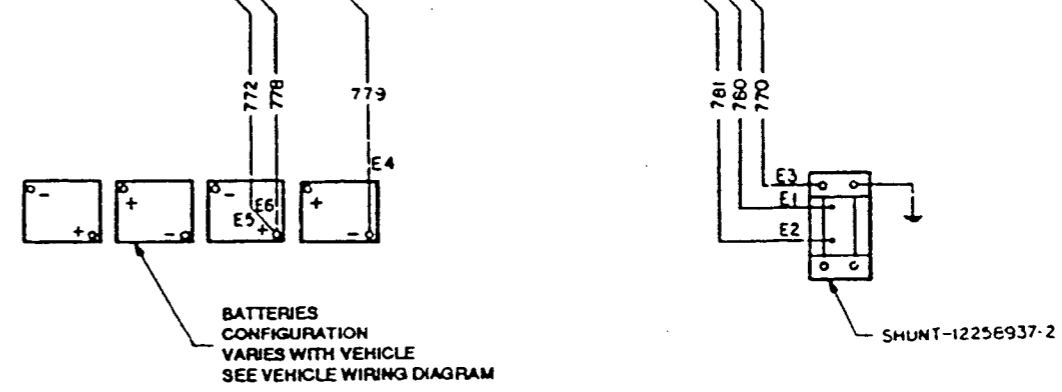


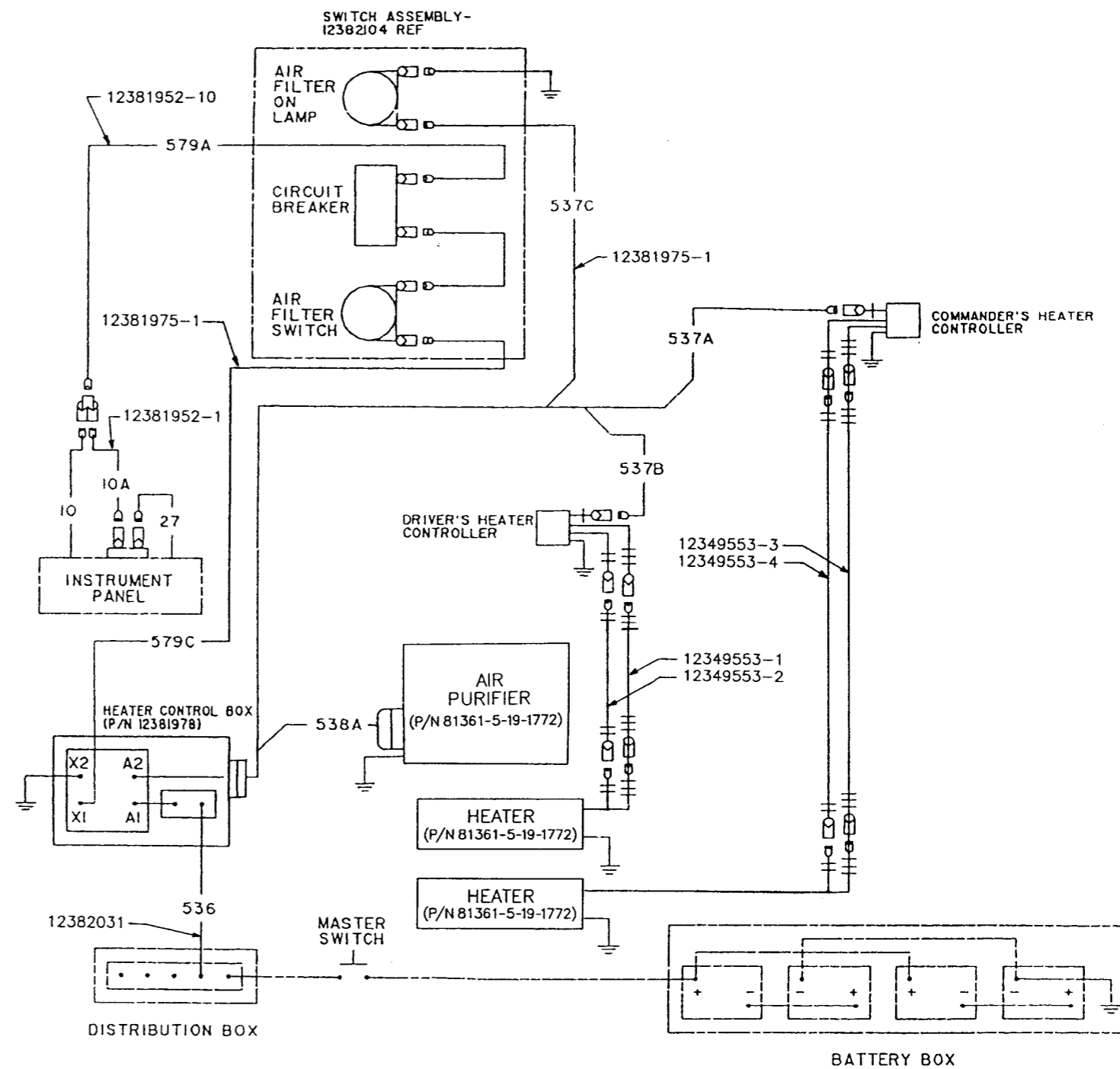




TO SHEET 1

WIRING HARNESS J2354503
 12354503 (M13A3, M901A3, M981A3, M1050A3)
 12354503-1 (M1064A3)
 12384173 (M577A3, M1068A3)





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
----------------------------	--	-----------

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
--	---	------

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

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TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS

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Use Part II (*reverse*) for Repair Parts and Special Tools Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).

Date

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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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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.)*

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

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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.)*

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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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

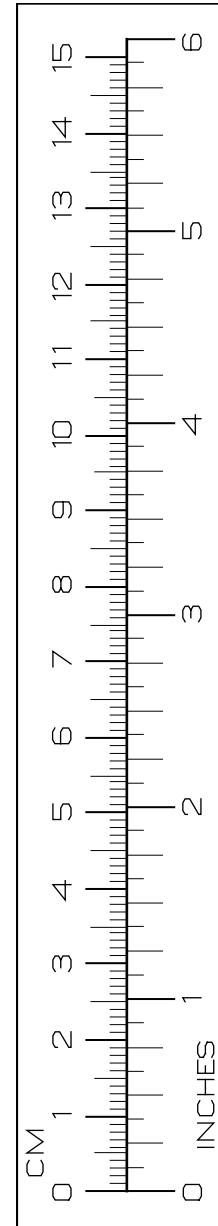
1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches
 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

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	Millimeters	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



PIN: 078494-000