

**TECHNICAL MANUAL**  
**UNIT MAINTENANCE MANUAL**  
**FOR**  
**CARRIER, PERSONNEL, FULL TRACKED, ARMORED, M113A2**  
**NSN 2350-01-068-4077**

**CARRIER, COMMAND POST, LIGHT TRACKED, M577A2**  
**NSN 2350-01-068-4089**

**CARRIER, MORTAR, 120-MM, M121; SELF-PROPELLED, M1064**  
**NSN 2350-01-338-3116**

**CARRIER, STANDARDIZED INTEGRATED COMMAND POST SYSTEM,**  
**M1068**  
**NSN 2350-01-354-5657**

**CARRIER, SMOKE GENERATOR, FULL TRACKED, M1059**  
**NSN 2350-01-203-0188**

**COMBAT VEHICLE, ANTI-TANK, IMPROVED TOW VEHICLE, M901A1**  
**NSN 2350-01-103-5641**

**SUPERSEDURE NOTICE** — This manual supersedes TM 9-2350-261-20-3 dated 11 July 1990, including all changes.

**DISTRIBUTION STATEMENT A** — Approved for public release; distribution is unlimited.

---

**HEADQUARTERS, DEPARTMENT OF THE ARMY**  
**AUGUST 2005**

**LIST OF EFFECTIVE PAGES/ILLUSTRATIONS**

Note: This manual supersedes TM 9-2350-261-20-4 dated 11 July 1990.

Date of issue for revision is:

Original 0 **(26 August 2005)**

TOTAL NUMBER OF PAGES FOR FRONT AND REAR MATTER IS 148 AND TOTAL NUMBER OF WORK PACKAGES IS 158 CONSISTING OF THE FOLLOWING:

| Page/Illust No.      | *Change No. | Page/Illust No.        | *Change No. | Page/Illust No. | *Change No. |
|----------------------|-------------|------------------------|-------------|-----------------|-------------|
| Cover                | 0           | FO-7 (4 Sheets)        | 0           |                 |             |
| A/B blank            | 0           | FO-8 (2 Sheets)        | 0           |                 |             |
| i – vi/viii blank    | 0           | FO-9                   | 0           |                 |             |
| Chapter 31 Index     | 0           | DA 2028 Sample/Reverse | 0           |                 |             |
| WP 0624 00           | 0           | DA 2028/Reverse (3)    | 0           |                 |             |
| Chapter 32 Index     | 0           | Authentication         | 0           |                 |             |
| WP 0625 00 – 0634 00 | 0           | Metric Chart           | 0           |                 |             |
| Chapter 33 Index     | 0           | Back Cover             | 0           |                 |             |
| WP 0635 00 – 0652 00 | 0           |                        |             |                 |             |
| Chapter 34 Index     | 0           |                        |             |                 |             |
| WP 0653 00 – 0654 00 | 0           |                        |             |                 |             |
| Chapter 35 Index     | 0           |                        |             |                 |             |
| WP 0655 00 – 0657 00 | 0           |                        |             |                 |             |
| Chapter 36 Index     | 0           |                        |             |                 |             |
| WP 0658 00 – 0661 00 | 0           |                        |             |                 |             |
| Chapter 37 Index     | 0           |                        |             |                 |             |
| WP 0662 00           | 0           |                        |             |                 |             |
| Chapter 38 Index     | 0           |                        |             |                 |             |
| WP 0663 00 – 0669 00 | 0           |                        |             |                 |             |
| Chapter 39 Index     | 0           |                        |             |                 |             |
| WP 0670 00 – 0694 00 | 0           |                        |             |                 |             |
| Chapter 40 Index     | 0           |                        |             |                 |             |
| WP 0695 00 – 0715 00 | 0           |                        |             |                 |             |
| Chapter 41 Index     | 0           |                        |             |                 |             |
| WP 0716 00 – 0759 00 | 0           |                        |             |                 |             |
| Chapter 42 Index     | 0           |                        |             |                 |             |
| WP 760 00 – 0762 00  | 0           |                        |             |                 |             |
| Chapter 43 Index     | 0           |                        |             |                 |             |
| WP 0763 00 – 0772 00 | 0           |                        |             |                 |             |
| Chapter 44 Index     | 0           |                        |             |                 |             |
| WP 0773 00 – 0777 00 | 0           |                        |             |                 |             |
| Chapter 45 Index     | 0           |                        |             |                 |             |
| WP 0778 00 – 0782 00 | 0           |                        |             |                 |             |
| Index 1 – Index 98   | 0           |                        |             |                 |             |
| FO-1                 | 0           |                        |             |                 |             |
| FO-2                 | 0           |                        |             |                 |             |
| FO-3                 | 0           |                        |             |                 |             |
| FO-4                 | 0           |                        |             |                 |             |
| FO-5 (4 Sheets)      | 0           |                        |             |                 |             |
| FO-6 (4 Sheets)      | 0           |                        |             |                 |             |

\*Zero in this column indicates an original page

**TECHNICAL MANUAL  
UNIT MAINTENANCE MANUAL****CARRIER, PERSONNEL, FULL TRACKED, ARMORED, M113A2  
NSN 2350-01-068-4077****CARRIER, COMMAND POST, LIGHT TRACKED, M577A2  
NSN 2350-01-068-4089****CARRIER, MORTAR, 120-MM, M121; SELF-PROPELLED, M1064  
NSN 2350-01-338-3116****CARRIER, STANDARDIZED INTEGRATED COMMAND POST SYSTEM, M1068  
NSN 2350-01-354-5657****CARRIER, SMOKE GENERATOR, FULL TRACKED, M1059  
NSN 2350-01-203-0188****COMBAT VEHICLE, ANTI-TANK, IMPROVED TOW VEHICLE, M901A1  
NSN 2350-01-103-5641****REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this publication. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Submit your DA Form 2028 (Recommended Changes to Equipment Technical Publications), through the Internet, on the Army Electronic Product Support (AEPS) website. The Internet address is <http://aeps.ria.army.mil>. If you need a password, scroll down and click on "ACCESS REQUEST FORM." The DA Form 2028 is located in the ONLINE FORMS PROCESSING section of the AEPS. Fill out the form and click on SUBMIT. Using this form on the AEPS will enable us to respond quicker to your comments and better manage the DA Form 2028 program. You may also mail, fax, or email your letter or DA Form 2028 direct to: Technical Publications Office, TACOM-RI, Rock Island, IL 61299-7630. The email address is [TACOM-TECH-PUBS@ria.army.mil](mailto:TACOM-TECH-PUBS@ria.army.mil). The fax number is DSN 793-0726 or Commercial (309) 782-0726.

CURRENT AS OF 5 JANUARY 2004

**SUPERSEDURE NOTICE** — This manual supersedes TM 9-2350-261-20-3 dated 11 July 1990, including all changes.**DISTRIBUTION STATEMENT A** — Approved for public release; distribution is unlimited.

**TABLE OF CONTENTS**  
**Volume 4**

WP Sequence No.

CHAPTER 31 — UNIT MAINTENANCE INSTRUCTIONS FOR DRIVER’S WINDSHIELD KIT

REPLACE DRIVER’S WINDSHIELD AND BRACKETS.....0624 00

CHAPTER 32 — UNIT MAINTENANCE INSTRUCTIONS FOR ELECTRONIC EQUIPMENT HEATER KIT (M577A2 ONLY)

ELECTRONIC EQUIPMENT HEATER KIT (M577A2 ONLY).....0625 00

REPLACE HEATER FUEL PUMP (M577A2 ONLY).....0626 00

REPLACE SHUTOFF VALVE TO FUEL PUMP HOSE AND SHUTOFF VALVE (M577A2 ONLY).....0627 00

REPLACE ELECTRONIC EQUIPMENT HEATER FUEL PUMP TO BULKHEAD CONNECTION HOSE (M577A2 ONLY).....0628 00

REPLACE ELECTRONIC EQUIPMENT HEATER BULKHEAD TO HEATER HOSES (M577A2 ONLY).....0629 00

REPLACE ELECTRONIC EQUIPMENT HEATER CONTROL BOX (M577A2 ONLY).....0630 00

REPLACE ELECTRONIC EQUIPMENT HEATER BATTERY-TO-CONTROL BOX LEAD (M577A2 ONLY).....0631 00

REPLACE ELECTRONIC EQUIPMENT HEATER CONTROL BOX-TO-FUEL PUMP LEAD (M577A2 ONLY).....0632 00

REPLACE ELECTRONIC EQUIPMENT HEATER ASSEMBLY AND MOUNTING BRACKETS (M577A2 ONLY).....0633 00

REPLACE ELECTRONIC EQUIPMENT HEATER AIR INTAKE HOSE AND EXHAUST PIPE (M577A2 ONLY).....0634 00

CHAPTER 33 — UNIT MAINTENANCE INSTRUCTIONS FOR ENGINE COOLANT HEATER KIT

HEATER COOLANT FLOW DIAGRAM.....0635 00

REPLACE FLAME DETECTOR SWITCH.....0636 00

REPAIR FLAME DETECTOR SWITCH.....0637 00

REPLACE IGNITER.....0638 00

DRAIN AND FILL ENGINE COOLANT HEATER SYSTEM.....0639 00

REPLACE COOLANT HEATER FUEL PUMP (M113A2, M901A1, AND M1059 ONLY).....0640 00

REPLACE COOLANT HEATER FUEL PUMP (M577A2 AND M1068 ONLY).....0641 00

REPLACE COOLANT HEATER FUEL PUMP TO BULKHEAD CONNECTION HOSE (M113A2, M1059, AND M901A1 ONLY).....0642 00

REPLACE COOLANT HEATER FUEL PUMP TO BULKHEAD CONNECTION HOSE (M577A2 AND M1068 ONLY).....0643 00

REPLACE BULKHEAD CONNECTION TO COOLANT HEATER FUEL INLET HOSE TUBE.....0644 00

REPLACE COOLANT HEATER FUEL INLET HOSE.....0645 00

REPLACE COOLANT HOSES AND FITTINGS .....0646 00

REPLACE COOLANT HEATER EXHAUST ELBOW AND PIPES.....0647 00



**TABLE OF CONTENTS (cont)**

WP Sequence No.

|   |         |
|---|---------|
| REPLACE/REPAIR COOLANT HEATER CONTROL BOX.....  | 0648 00 |
| REPLACE COOLANT PUMP TO COOLANT HEATER WIRING HARNESS.....                                | 0649 00 |
| REPLACE COOLANT HEATER AND PUMP UNIT.....   | 0650 00 |
| REPLACE COOLANT HEATER.....   | 0651 00 |
| REPLACE COOLANT HEATER PUMP .....   | 0652 00 |
| <br>CHAPTER 34 — UNIT MAINTENANCE INSTRUCTIONS FOR CAPSTAN KIT                            |         |
| REPLACE DRUM ASSEMBLY (M113A2 AND M1059 ONLY).....  | 0653 00 |
| REPLACE DRUM ADAPTER (M113A2 AND M1059 ONLY).....   | 0654 00 |
| <br>CHAPTER 35 — UNIT MAINTENANCE INSTRUCTIONS FOR MARINE RECOVERY KIT                    |         |
| REPLACE TARPAULIN AND STRAPS (M113A2 AND M1059 ONLY).....                                 | 0655 00 |
| REPLACE STOWAGE HOOKS AND BRACKETS (M113A2 AND M1059 ONLY).....                           | 0656 00 |
| REPAIR TOWLINES (M113A2 AND M1059 ONLY).....  | 0657 00 |
| <br>CHAPTER 36 — UNIT MAINTENANCE INSTRUCTIONS FOR LITTER KIT<br>(M113A2 ONLY)            |         |
| REPLACE CHAIN ASSEMBLY (M113A2 ONLY).....   | 0658 00 |
| REPAIR CHAIN ASSEMBLY (M113A2 ONLY).....  | 0659 00 |
| REPLACE POST ASSEMBLY (M113A2 ONLY).....  | 0660 00 |
| REPAIR POST ASSEMBLY (M113A2 ONLY).....   | 0661 00 |
| <br>CHAPTER 37 — UNIT MAINTENANCE INSTRUCTIONS FOR ARTILLERY<br>COMMUNICATION KIT         |         |
| REPLACE ARTILLERY COMMUNICATION INSIDE CABLE (M577A2 ONLY).....                           | 0662 00 |
| <br>CHAPTER 38 — UNIT MAINTENANCE INSTRUCTIONS FOR MACHINE GUN<br>ARMOR SHIELD KIT        |         |
| REPLACE COMMANDER’S CUPOLA ARMOR SHIELDS (M113A2, M1064, AND<br>M1059 ONLY).....          | 0663 00 |
| REPLACE 7.62MM M60 MACHINE GUN PLATFORM MOUNT ASSEMBLY<br>(M113A2 ONLY).....              | 0664 00 |
| REPLACE 30 CAL. GUN MOUNT ADAPTER ASSEMBLY .....  | 0665 00 |
| REPLACE REAR GUN PINTLE SOCKET (M113A2 ONLY).....   | 0666 00 |
| REPLACE GUN TRAVERSE RESTRICTOR.....  | 0667 00 |
| REPLACE REAR ARMOR SHIELDS (M113A2 ONLY).....   | 0668 00 |
| REPLACE REAR ARMOR SHIELD MOUNTING ARM LOCK ASSEMBLY AND<br>MOUNT.....                    | 0669 00 |
| <br>CHAPTER 39 — UNIT MAINTENANCE INSTRUCTIONS FOR NBC KIT (ALL<br>VEHICLES EXCEPT M1064) |         |
| REPLACE M13 NBC HEATER WIRING HARNESS (M577A2 ONLY).....                                  | 0670 00 |
| REPLACE M13 NBC FILTERS AND HOSES (M577A2 ONLY).....                                      | 0671 00 |
| REPLACE M13 NBC HEATERS AND MOUNTS (M577A2 ONLY).....                                     | 0672 00 |
| REPLACE M13 NBC FILTER SWITCH AND MOUNT BRACKET (M577A2 ONLY).....                        | 0673 00 |

**TABLE OF CONTENTS (cont)**

WP Sequence No.

REPLACE M3 NBC FILTER SWITCH AND MOUNT BRACKET (M577A2 ONLY).....0674 00

REPLACE M3 NBC HEATER CONTROL BOX (M577A2 ONLY).....0675 00

REPLACE M8A3 NBC CABLES, SWITCH ASSEMBLY, AND BRACKETS (M577A2 ONLY).....0676 00

REPLACE M8A3 NBC HOSES AND BRACKETS (M577A2 ONLY).....0677 00

REPLACE M8A3/M13 AIR PURIFIER/PRECLEANER AND FRAME (M577A2 ONLY).....0678 00

REPLACE M8A3/M13/M14 ORIFICE CONNECTOR ASSEMBLY, SUPPORT, AND QUICK COUPLING HALF (M113A2, M1059, M577A2, AND M1068 ONLY).....0679 00

REPLACE M13 PRECLEANER AND FRAME (M1068 ONLY).....0680 00

REPLACE M13 NBC FILTERS AND HOSES (M1068 ONLY).....0681 00

REPLACE M13 NBC HEATER HOSES (M1068 ONLY).....0682 00

REPLACE M3 NBC HEATER CONTROL BOX (M1068 ONLY).....0683 00

REPLACE M13 NBC HEATER WIRING HARNESS (M1068 ONLY).....0684 00

REPLACE M3 NBC HEATER HOSES AND FITTINGS (M113A2 AMBULANCE ONLY).....0685 00

REPLACE M3 NBC FILTER SWITCH ASSEMBLY (M113A2 AMBULANCE ONLY).....0686 00

REPLACE M3 NBC HEATERS AND CONTROLLERS (M113A2 AMBULANCES ONLY).....0687 00

REPLACE M14 NBC HOSES AND BRACKETS (M113A2 AMBULANCE ONLY).....0688 00

REPLACE M8A3/M14 AIR PURIFIER AND FRAME (M113A2 ONLY).....0689 00

REPLACE M8A3/M14 NBC CABLES AND SWITCH ASSEMBLY (M113A2 ONLY).....0690 00

REPLACE M42 VENTILATED FACE MASK (VFM) HOSE ASSEMBLY .....0691 00

REPLACE ORIFICE CONNECTOR ASSEMBLY NBC EQUIPMENT .....0692 00

REPLACE M42 VENTILATED FACE MASK (VFM) GAS FILTER .....0693 00

REPLACE M42 VENTILATED FACE MASK (VFM) HEATER .....0694 00

CHAPTER 40 — UNIT MAINTENANCE INSTRUCTIONS FOR M1059 SMOKE GENERATOR EQUIPMENT

REPLACE FOG OIL TANK MODULE (M1059 ONLY).....0695 00

REPLACE SMOKE GENERATOR BREATHER HOSE ASSEMBLY (M1059 ONLY).....0696 00

REPLACE SMOKE GENERATOR ASSEMBLY AND SUPPORT BRACKET (M1059 ONLY).....0697 00

REPLACE SMOKE GENERATOR CONTROL PANEL ASSEMBLY (M1059 ONLY).....0698 00

REPLACE SMOKE GENERATOR SYSTEM POWER SUPPLY CABLE ASSEMBLY (M1059 ONLY).....0699 00

REPLACE AIR COMPRESSOR ELECTRICAL CABLE ASSEMBLY (M1059 ONLY).....0700 00

REPLACE FOG OIL PUMP ELECTRICAL CABLE ASSEMBLY (M1059 ONLY).....0701 00

REPLACE SMOKE GENERATOR INTERNAL CABLE ASSEMBLY (M1059 ONLY).....0702 00

REPLACE ADAPTER ACCESS PLATE TO GENERATOR ELECTRICAL CABLE ASSEMBLY (M1059 ONLY).....0703 00

REPLACE AIR COMPRESSOR ASSEMBLY (M1059 ONLY).....0704 00

REPLACE FOG OIL PUMP ASSEMBLY (M1059 ONLY).....0705 00

**TABLE OF CONTENTS (cont)**

WP Sequence No.

|  |         |
|--|---------|
| REPLACE SMOKE GENERATOR FUEL CAN LID ASSEMBLY (M1059 ONLY).....  | 0706 00 |
| REPLACE SMOKE GENERATOR FUEL LINES AND GUARDS (M1059 ONLY).....  | 0707 00 |
| REPLACE SMOKE GENERATOR ADAPTER ACCESS PLATE AND GASKET<br>(M1059 ONLY).....                           | 0708 00 |
| REPLACE SMOKE GENERATOR COMPRESSOR RESERVOIR TO ADAPTER<br>ACCESS PLATE AIR HOSE (M1059 ONLY).....     | 0709 00 |
| REPLACE SMOKE GENERATOR ADAPTER ACCESS PLATE TO COVER<br>ASSEMBLY AIR HOSE (M1059 ONLY).....           | 0710 00 |
| REPLACE FOG OIL TANK QUICK DISCONNECT TO ADAPTER ACCESS PLATE<br>HOSE (M1059 ONLY).....                | 0711 00 |
| REPLACE COVER ASSEMBLY FOG OIL QUICK DISCONNECT TO ADAPTER<br>ACCESS PLATE HOSE (M1059 ONLY).....      | 0712 00 |
| REPLACE SMOKE GENERATOR ARMOR (M1059 ONLY).....  | 0713 00 |
| REPLACE SMOKE GENERATOR GLOW PLUG CABLE ASSEMBLIES (M1059<br>ONLY).....                                | 0714 00 |
| REPLACE/REPAIR SMOKE GENERATOR FUEL FILTER/WATER SEPARATOR<br>(M1059 ONLY).....                        | 0715 00 |
| <br>CHAPTER 41 — UNIT MAINTENANCE INSTRUCTIONS FOR ELECTRICAL/<br>COMMUNICATION EQUIPMENT (M1068 ONLY) |         |
| REPLACE CURBSIDE DATA PANEL ASSEMBLY A12 (M1068 ONLY).....   | 0716 00 |
| REPLACE EXTERNAL COMMUNICATION BOX A11 LID AND LATCHES (M1068<br>ONLY).....                            | 0717 00 |
| REPLACE RIGHT EQUIPMENT RACK BRACKETS AND MOUNTS (M1068 ONLY).....                                     | 0718 00 |
| REPLACE A.C. POWER EXTENSION BOX A7 (M1068 ONLY).....  | 0719 00 |
| REPLACE AC POWER EXTENSION BOX A19 (M1068 ONLY).....   | 0720 00 |
| REPLACE LAN GROUND BOX ASSEMBLY A15 (M1068 ONLY).....  | 0721 00 |
| REPAIR LAN GROUND BOX ASSEMBLY A15 (M1068 ONLY).....   | 0722 00 |
| REPLACE EXTERNAL COMMUNICATION BOX A11 (M1068 ONLY).....   | 0723 00 |
| REPLACE SIGNAL PATCH PANEL BOX A10 (M1068 ONLY).....   | 0724 00 |
| REPLACE APIU RACK MOUNT AND BRACKET (M1068 ONLY).....  | 0725 00 |
| REPLACE AC POWER EXTENSION BOX A18 AND BRACKET (M1068 ONLY).....                                       | 0726 00 |
| REPLACE ROADSIDE DATA PANEL ASSEMBLY A13 AND BRACKET (M1068<br>ONLY).....                              | 0727 00 |
| REPLACE INVERTER HOUSING A2 TERMINAL BLOCKS TB1 AND TB2 (M1068<br>ONLY).....                           | 0728 00 |
| REPLACE POWER CONTROL ENCLOSURE AC AND DC METERS AND LIGHT<br>INDICATORS (M1068 ONLY).....             | 0729 00 |
| REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET (M1068<br>ONLY).....                              | 0730 00 |
| REPLACE POWER CONTROL ENCLOSURE ASSEMBLY A1 (M1068 ONLY).....  | 0731 00 |
| REPLACE POWER CONTROL ENCLOSURE CIRCUIT 44A LEAD (M1068 ONLY).....                                     | 0732 00 |
| REPLACE/REPAIR POWER SUPPLY STORAGE BOX ASSEMBLY (M1068 ONLY).....                                     | 0733 00 |
| REPLACE TENT INTERFACE PANEL BOX ASSEMBLY A5 (M1068 ONLY).....   | 0734 00 |

**TABLE OF CONTENTS (cont)**

WP Sequence No.

|  |         |
|--|---------|
| REPLACE AC POWER EXTENSION BOX A6 AND DC POWER EXTENSION BOX<br>A9 AND MOUNT (M1068 ONLY).....         | 0735 00 |
| REPLACE/REPAIR POWER DISTRIBUTION BOX A3 (M1068 ONLY).....   | 0736 00 |
| REPLACE POWER ENTRY BOX ASSEMBLY A4 (M1068 ONLY).....  | 0737 00 |
| REPLACE FLUORESCENT LIGHT ASSEMBLIES (M1068 ONLY).....   | 0738 00 |
| REPLACE POWER DISTRIBUTION CABLE (W3) (M1068 ONLY).....  | 0739 00 |
| REPLACE DC BATTERY CABLE (W4) (M1068 ONLY).....  | 0740 00 |
| REPLACE/REPAIR INVERTER AC CABLE (W5) (M1068 ONLY).....  | 0741 00 |
| REPLACE INVERTER DC CABLE (W6) (M1068 ONLY).....   | 0742 00 |
| REPLACE AC POWER EXTENSION CABLE (W7) (M1068 ONLY).....  | 0743 00 |
| REPLACE AC POWER EXTENSION CABLE (W8) (M1068 ONLY).....  | 0744 00 |
| REPLACE CASCADE REMOTE HARNESS (M1068 ONLY).....   | 0745 00 |
| REPLACE DC POWER EXTENSION CABLE (W10) (M1068 ONLY).....   | 0746 00 |
| REPLACE AC LIGHT CABLE (W11) (M1068 ONLY).....   | 0747 00 |
| REPLACE GROUND STRAP (W12) (M1068 ONLY).....   | 0748 00 |
| REPLACE HARNESS W32 (M1068 ONLY).....  | 0749 00 |
| REPLACE CABLE W35, CABLE W28, AND CABLE ADAPTER (M1068 ONLY).....                                      | 0750 00 |
| REPLACE CABLE W38, CABLE W29, AND CABLE ADAPTER (M1068 ONLY).....                                      | 0751 00 |
| REPLACE SINGLE POINT LAN CABLE (W40) (M1068 ONLY).....   | 0752 00 |
| REPLACE CABLES W42, W43, AND W251 (M1068 ONLY).....  | 0753 00 |
| REPLACE CABLE W45 (M1068 ONLY).....  | 0754 00 |
| REPLACE AC CABLE ASSEMBLY (W252) (M1068 ONLY).....   | 0755 00 |
| REPLACE LAN A OR B CABLE (W103/W104) (M1068 ONLY).....   | 0756 00 |
| REPLACE CABLE W124 (M1068 ONLY).....   | 0757 00 |
| REPLACE CABLE W126 (M1068 ONLY).....   | 0758 00 |
| REPAIR CABLE ASSEMBLY (W4/W6) (M1068 ONLY).....  | 0759 00 |
| <br>CHAPTER 42 — UNIT MAINTENANCE INSTRUCTIONS FOR COMMUNICATION<br>SYSTEM                             |         |
| REPLACE C-2298/VRC INTERCOM STATION BRACKET (M901A1 ONLY).....   | 0760 00 |
| REPLACE AS-1729/VRC ANTENNA GUARD (M901A1 ONLY).....   | 0761 00 |
| REPLACE MX-7777B/GRC OR MX-7778A/GRC TRANSIENT SUPPRESSOR<br>MOUNTS AND GROUND LEAD (M901A1 ONLY)..... | 0762 00 |
| <br>CHAPTER 43 — UNIT MAINTENANCE INSTRUCTIONS FOR FIRE<br>EXTINGUISHER SYSTEM                         |         |
| REPLACE EXTERNAL HANDLE SHIELD (M113A2, M901A1, AND M1059 ONLY).....                                   | 0763 00 |
| REPLACE EXTERNAL HANDLE SHIELD (M577A2 AND M1068 ONLY).....  | 0764 00 |
| REPLACE EXTERNAL HANDLE SHIELD (M1064 ONLY).....   | 0765 00 |
| REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL HANDLE.....                                       | 0766 00 |
| REPLACE EXTERNAL CABLE TUBE.....   | 0767 00 |
| REPLACE CYLINDER DISCHARGE TUBES.....  | 0768 00 |

**TABLE OF CONTENTS (cont)**

WP Sequence No.

|  |         |
|--|---------|
| REPLACE FIRE EXTINGUISHER CYLINDER AND MOUNT.....  | 0769 00 |
| REPLACE PORTABLE FIRE EXTINGUISHER MOUNT (ALL EXCEPT M1068).....                                       | 0770 00 |
| REPLACE FIRE EXTINGUISHER AND MOUNT (M1059 ONLY).....  | 0771 00 |
| REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER MOUNT (M1068 ONLY).....                                      | 0772 00 |
| <br>CHAPTER 44 — UNIT MAINTENANCE INSTRUCTIONS FOR CHEMICAL AGENT<br>AUTOMATIC ALARM KIT (M113A2 ONLY) |         |
| REPLACE M8 CHEMICAL ALARM DISTRIBUTION BOX (M113A2 ONLY).....  | 0773 00 |
| REPAIR M8 CHEMICAL ALARM JUNCTION BOX (M113A2 ONLY).....   | 0774 00 |
| REPLACE M42 ALARM UNIT CABLE (M113A2 ONLY).....  | 0775 00 |
| REPLACE CHEMICAL AGENT WIRING HARNESS (M113A2 ONLY).....   | 0776 00 |
| REPLACE ALARM KIT MOUNTING BRACKETS (M113A2 ONLY).....   | 0777 00 |
| <br>CHAPTER 45 — UNIT SUPPORTING INFORMATION   |         |
| REFERENCES.....  | 0778 00 |
| MAINTENANCE ALLOCATION CHART (MAC).....  | 0779 00 |
| COMMON TOOLS AND SUPPLEMENTS AND SPECIAL TOOLS/FIXTURES LIST.....                                      | 0780 00 |
| FABRICATED TOOLS.....  | 0781 00 |
| EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST.....  | 0782 00 |
| M113A2 ELECTRICAL WIRING DIAGRAM 100 AMP GENERATOR.....  | FO-1    |
| M113A2 ELECTRICAL WIRING DIAGRAM 200 AMP GENERATOR.....  | FO-2    |
| M577A2 ELECTRICAL WIRING DIAGRAM.....  | FO-3    |
| M901A1 ELECTRICAL WIRING DIAGRAM.....  | FO-4    |
| M1064 ELECTRICAL WIRING DIAGRAM (200 AMP)(1 OF 4).....   | FO-5    |
| M1064 ELECTRICAL WIRING DIAGRAM (200 AMP)(2 OF 4).....   | FO-5    |
| M1064 ELECTRICAL WIRING DIAGRAM (200 AMP)(3 OF 4).....   | FO-5    |
| M1064 ELECTRICAL WIRING DIAGRAM (200 AMP)(4 OF 4).....   | FO-5    |
| M1068 ELECTRICAL WIRING DIAGRAM.....   | FO-6    |
| M1068 ELECTRICAL COMMUNICATION EQUIPMENT (1 OF 3).....   | FO-7    |
| M1068 ELECTRICAL COMMUNICATION EQUIPMENT (2 OF 3).....   | FO-7    |
| M1068 ELECTRICAL COMMUNICATION EQUIPMENT (3 OF 3).....   | FO-7    |
| M1068 POWER CONTROL ENCLOSURE (1 OF 2).....  | FO-8    |
| M1068 POWER CONTROL ENCLOSURE (2 OF 2).....  | FO-8    |
| M1059 ELECTRICAL WIRING DIAGRAM.....   | FO-9    |

CHAPTER 31

UNIT MAINTENANCE INSTRUCTIONS  
FOR DRIVER'S WINDSHIELD KIT

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>                                  | <u>Sequence No.</u> |
|---|---------------------|
| REPLACE DRIVER'S WINDSHIELD AND BRACKETS..... | 0624 00             |

**REPLACE DRIVER'S WINDSHIELD AND BRACKETS**

**0624 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0624 00-1).  
 Installation (page 0624 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanics Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Materials/Parts

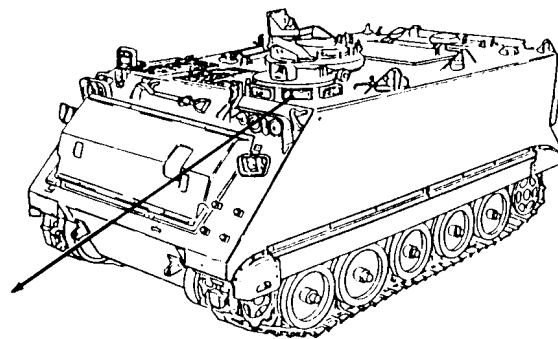
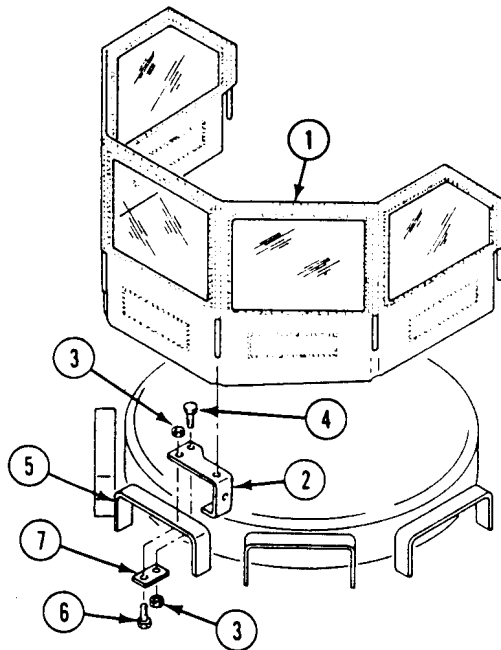
Locknut (10)

**REMOVAL**

**CAUTION**

**Handle windshield carefully to avoid damage to windows. Do not fold windshield after use in extreme cold; windows will crack. Warm cold windshield slowly before folding for stowage.**

1. Lift windshield (1) out of five brackets (2).
2. Remove five locknuts (3) and outside screws (toward hatch) (4) from driver's hatch periscope guards (5). Discard locknuts.
3. Remove five locknuts (3), and inside screws (away from hatch) (6), five brackets (2), and plates (7) from driver's hatch periscope guards (5). Discard locknuts.

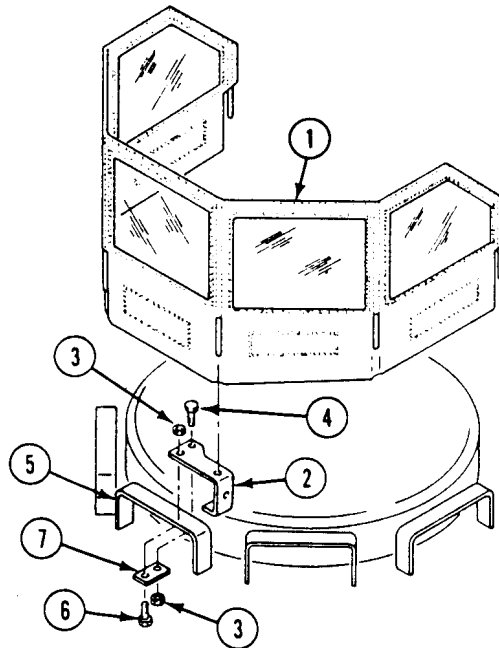


## INSTALLATION

## NOTE

Install the heads of outside screws (toward hatch) down and the heads of inside screws (away from hatch) up to prevent interference.

1. If windshield (1) is to be installed, secure five brackets (2) and plates (7) to driver's hatch periscope guards (5) with five outside screws (4), five inside screws (6), and ten new locknuts (3).
2. Install windshield (1) in five brackets (2).



END OF TASK



CHAPTER 32

UNIT MAINTENANCE INSTRUCTIONS  
FOR ELECTRONIC EQUIPMENT HEATER KIT (M577A2 ONLY)

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| ELECTRONIC EQUIPMENT HEATER KIT (M577A2 ONLY).....  | .0625 00            |
| REPLACE HEATER FUEL PUMP (M577A2 ONLY).....   | .0626 00            |
| REPLACE SHUTOFF VALVE TO FUEL PUMP HOSE AND SHUTOFF VALVE (M577A2<br>ONLY).....                 | .0627 00            |
| REPLACE ELECTRONIC EQUIPMENT HEATER FUEL PUMP TO BULKHEAD<br>CONNECTION HOSE (M577A2 ONLY)..... | .0628 00            |
| REPLACE ELECTRONIC EQUIPMENT HEATER BULKHEAD TO HEATER HOSES<br>(M577A2 ONLY).....              | .0629 00            |
| REPLACE ELECTRONIC EQUIPMENT HEATER CONTROL BOX (M577A2 ONLY).....                              | .0630 00            |
| REPLACE ELECTRONIC EQUIPMENT HEATER BATTERY-TO-CONTROL BOX LEAD<br>(M577A2 ONLY).....           | .0631 00            |
| REPLACE ELECTRONIC EQUIPMENT HEATER CONTROL BOX-TO-FUEL PUMP LEAD<br>(M577A2 ONLY).....         | .0632 00            |
| REPLACE ELECTRONIC EQUIPMENT HEATER ASSEMBLY AND MOUNTING<br>BRACKETS (M577A2 ONLY).....        | .0633 00            |
| REPLACE ELECTRONIC EQUIPMENT HEATER AIR INTAKE HOSE AND EXHAUST PIPE<br>(M577A2 ONLY).....      | .0634 00            |

---

**ELECTRONIC EQUIPMENT HEATER KIT (M577A2 ONLY)**

---

**0625 00****INITIAL SETUP:**Maintenance Level

Unit

ReferencesTM 9-2540-205-24&P

---

**HEATER COMPONENT MAINTENANCE****NOTE**

**The M577A2 with the 5.0 KW Auxiliary Power Unit (APU) will not have the electronic equipment heater. The electronic equipment heater is removed completely.**

**Heater Component Maintenance (Stewart Warner Corp., Model 10560M24B1)**

This section shows you how to perform maintenance on the replaceable components of the Stewart Warner Corp., Model 10560M24B1 electronic equipment heater. Only those components listed in this section may be repaired or replaced by unit maintenance.

The electronic equipment heater and the personnel compartment heater are the same. Refer to TM 9-2540-205-24&P for heater component maintenance.

**Heater Component Maintenance (Hupp Corp., Model D55350-G1)**

Refer to TM 9-2540-205-24&P for troubleshooting, repair tasks, and Repair Parts and Special Tools Lists (RPSTL) for the Hupp Corp., Model D55350-G1 Heater.

The electronic equipment heater and the personnel compartment heater are the same. Refer to Chapter 32 for other components of the electronic equipment heater installation.

**END OF TASK**

---

**REPLACE HEATER FUEL PUMP (M577A2 ONLY)**

---

**0626 00**

---

**THIS WORK PACKAGE COVERS:**

Removal (page 0626 00-2).  
 Installation (page 0626 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Ramp lowered (see your -10)

Battery ground lead disconnected (WP 0294 00)

Rear floor plate removed (WP 0436 00)

Heater fuel shutoff valve closed (see your -10)

---

Materials/Parts

Cleaning compound solvent (WP 0782 00, Item 16)

Sealing compound (WP 0782 00, Item 60)

Locknut (2)

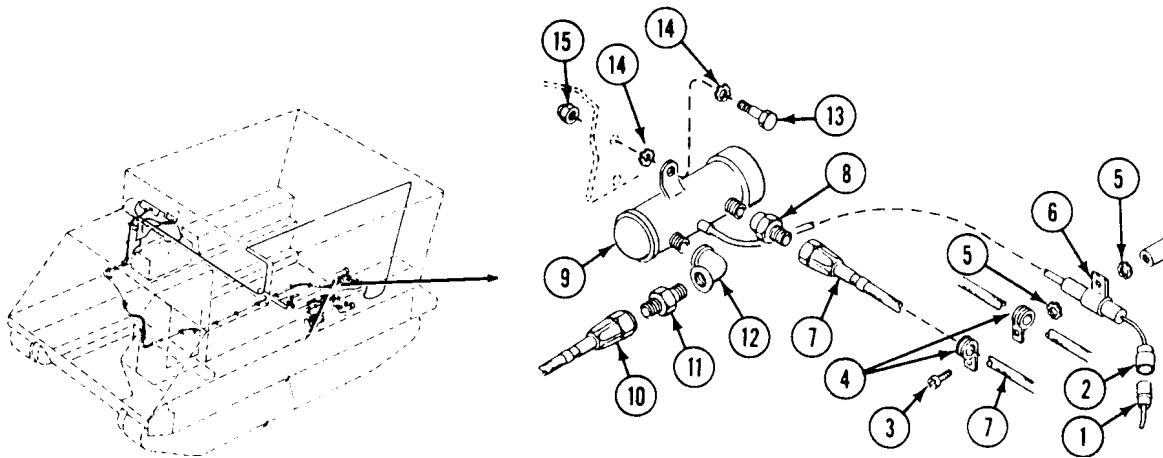
Lockwasher (6)

## REMOVAL

**WARNING**

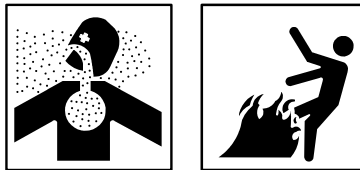
**Diesel fuel can catch fire and seriously injure or kill soldiers and damage or destroy vehicles. Wipe up fuel spills immediately. Do not smoke near fuel or when working on the fuel system.**

1. Disconnect circuit 402A lead (1) from fuel pump lead (2).
2. Remove screw (3), two clamps (4), two lockwashers (5), and clamp (6) from hull weldnut. Discard lockwashers.
3. Remove fuel hose (7) from adapter (8). Remove adapter from fuel pump (9).
4. Remove fuel hose (10) from adapter (11). Remove adapter from elbow (12).
5. Remove elbow (12) from fuel pump (9).
6. Remove two screws (13), four lockwashers (14), two locknuts (15), and fuel pump (9) from rear floor support. Discard lockwashers and locknuts.



**INSTALLATION**

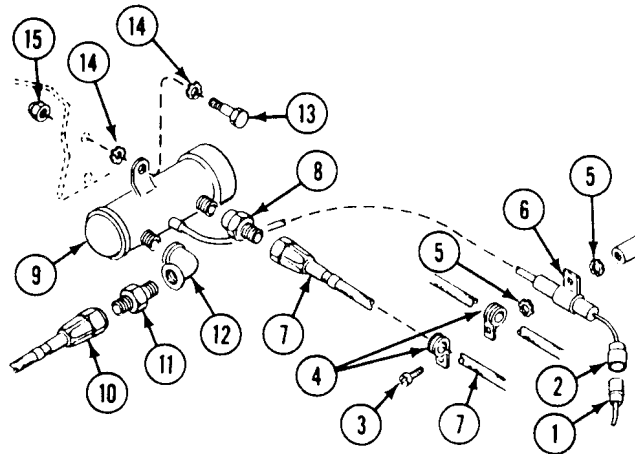
1. Place fuel pump (9) on rear floor support. Secure with two screws (13), four new lockwashers (14), and two new locknuts (15).

**WARNING**

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

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

2. Apply light coat of sealing compound to all external tapered threads. Do not apply sealant beyond end of tapered threads.
3. Install elbow (12) on fuel pump (9).
4. Install adapter (11) in elbow (12). Connect fuel hose (10) to adapter (11).
5. Install adapter (8) on fuel pump (9). Connect fuel hose (7) to adapter (8).
6. Align clamp (6), two new lockwashers (5), and two clamps (4) with hull weldnut. Secure with screw (3).
7. Install fuel pump lead (2) on circuit 402A lead (1).



**FOLLOW-THROUGH STEPS**

1. Open heater fuel shutoff valve (see your -10).
2. Connect battery ground lead (WP 0294 00).
3. Bleed fuel line (WP 0599 00).
4. Start heater (see your -10). Check pump for fuel leaks. Turn heater off.
5. Install rear floor plate (WP 0436 00).
6. Raise and lock ramp (see your -10).
7. Stop engine (see your -10).

**END OF TASK**

---

**REPLACE SHUTOFF VALVE TO FUEL PUMP HOSE AND SHUTOFF VALVE (M577A2 ONLY)**

---

**0627 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0627 00-1).  
 Installation (page 0627 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)  
 Carrier blocked (see your -10)  
 Ramp lowered (see your -10)  
 Battery ground lead disconnected (WP 0294 00)  
 Rear floor plate removed (WP 0436 00)  
 Fuel supply shutoff valve closed (see your -10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

Sealing compound (WP 0782 00, Item 60)  
 Locknut  
 Lockwasher (2)

Personnel Required

Unit Mechanic

---

**REMOVAL**

**WARNING**

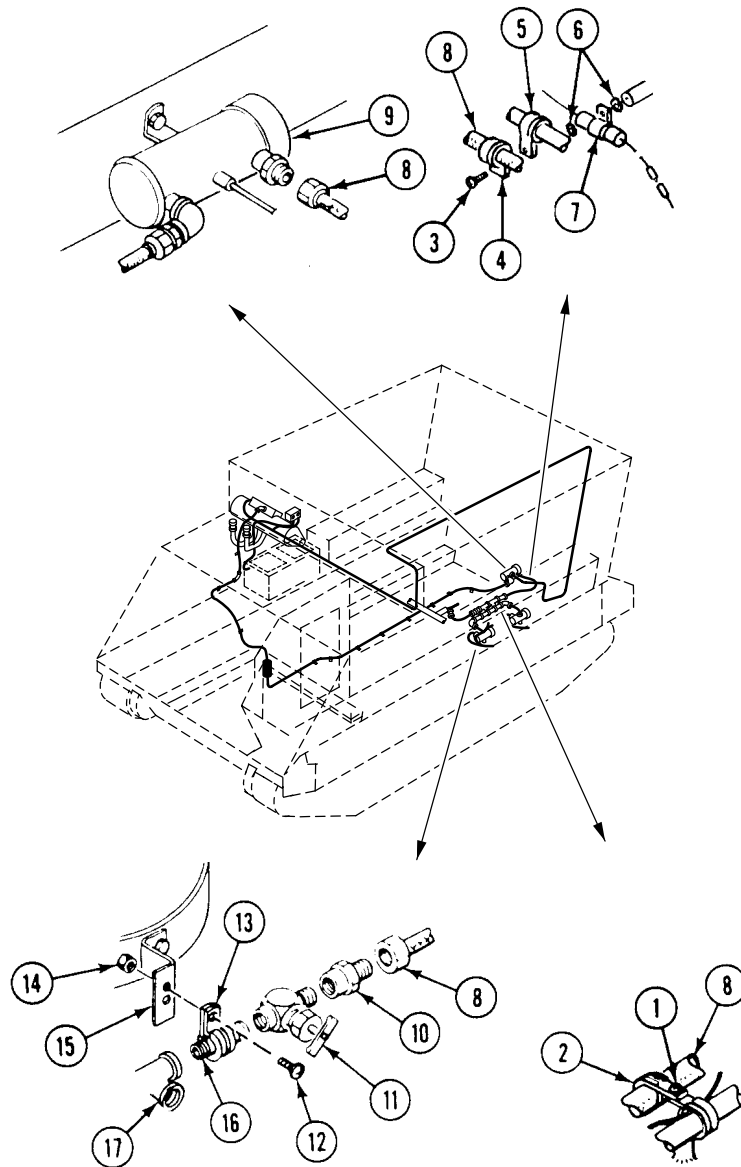


**Diesel fuel can catch fire and seriously injure or kill soldiers and damage or destroy vehicles. Wipe up fuel spills immediately. Do not smoke near fuel or when working on the fuel system.**

**REPLACE SHUTOFF VALVE TO FUEL PUMP HOSE AND SHUTOFF VALVE (M577A2 ONLY) — Continued**

0627 00

1. Remove screw (1) and clamp (2) from hull weldnut.
2. Remove screw (3), two clamps (4) and (5), two lockwashers (6), and clamp (7) from hull weldnut. Discard lockwashers.
3. Disconnect hose (8) from fuel pump (9) and adapter (10). Remove clamp (2) and clamp (4) from hose.
4. Remove adapter (10) from shutoff valve (11).
5. Remove screw (12), clamp (13), and locknut (14) from bracket (15). Discard locknut.
6. Remove shutoff valve (11) from nipple (16). Remove clamp (13) from nipple. Remove nipple from tee (17).





---

**REPLACE SHUTOFF VALVE TO FUEL PUMP HOSE AND SHUTOFF VALVE (M577A2 ONLY) — Continued**


---

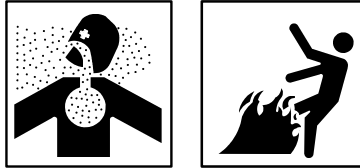
0627 00

**INSTALLATION**


---

**WARNING**


---



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

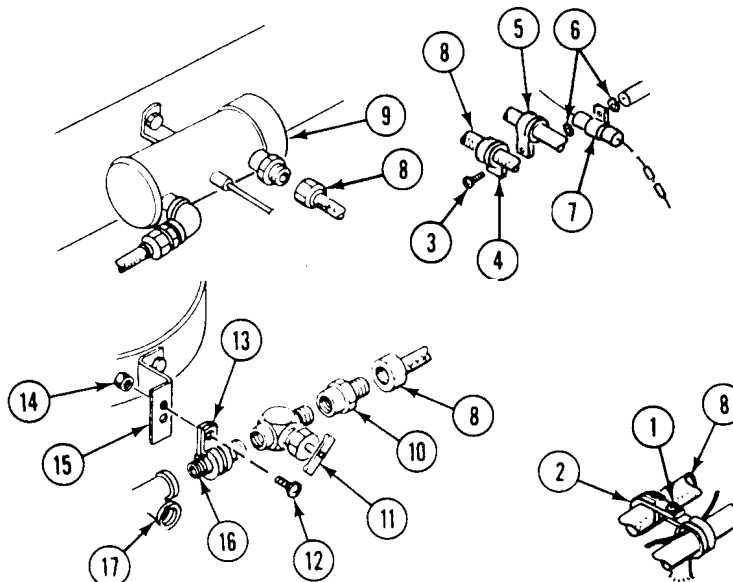
**Always use in well ventilated areas, away from heat, sparks, and flames. Do not breathe fumes. Do not allow into contact with skin and eyes. Use goggles or face shield and protective gloves.**

1. Apply light coat of sealing compound to all external tapered threads. Do not apply sealant beyond small end of tapered threads.

**NOTE**

**Replacing a flareless fuel hose or tube assembly may also require new mating fittings such as a tee, elbow, or adapter.**

2. Install nipple (16) in tee (17).
3. Place clamp (13) on nipple (16) and align with bracket (15). Secure with screw (12) and new locknut (14).
4. Install shutoff valve (11) on nipple (16). Install adapter (10) on shutoff valve.
5. Install two clamps (2) and (4) on hose (8). Connect hose to adapter (10) and fuel pump (9).
6. Align clamp (7), two new lockwashers (6), and two clamps (4) and (5) with hull weldnut. Secure with screw (3).
7. Align clamp (2) with hull weldnut. Secure with screw (1).



---

**REPLACE SHUTOFF VALVE TO FUEL PUMP HOSE AND SHUTOFF VALVE (M577A2 ONLY) — Continued**

---

**0627 00**

**FOLLOW-THROUGH STEPS**

1. Open heater fuel shutoff valve (see your -10).
2. Connect battery ground lead (WP 0294 00).
3. Bleed fuel line (WP 0599 00)
4. Start heater (see your -10). Check pump for fuel leaks. Turn heater off.
5. Install rear floor plate (WP 0436 00).
6. Raise and lock ramp (see your -10).
7. Stop engine (see your -10).

**END OF TASK**

---

**REPLACE ELECTRONIC EQUIPMENT HEATER FUEL PUMP TO  
BULKHEAD CONNECTION HOSE (M577A2 ONLY)**

---

**0628 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0628 00-2).  
Installation (page 0628 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Personnel Required

Unit Mechanic

Equipment Condition

Engine stopped (see your -10)  
Carrier blocked (see your -10)  
Ramp lowered (see your -10)  
Battery ground lead disconnected (WP 0294 00)  
Personnel heater duct removed (WP 0617 00)  
Right front and rear floor plates removed (WP 0436 00)  
Heater fuel shutoff valve closed (see your -10)

---

REPLACE ELECTRONIC EQUIPMENT HEATER FUEL PUMP TO BULKHEAD  
 CONNECTION HOSE (M577A2 ONLY) — Continued

0628 00

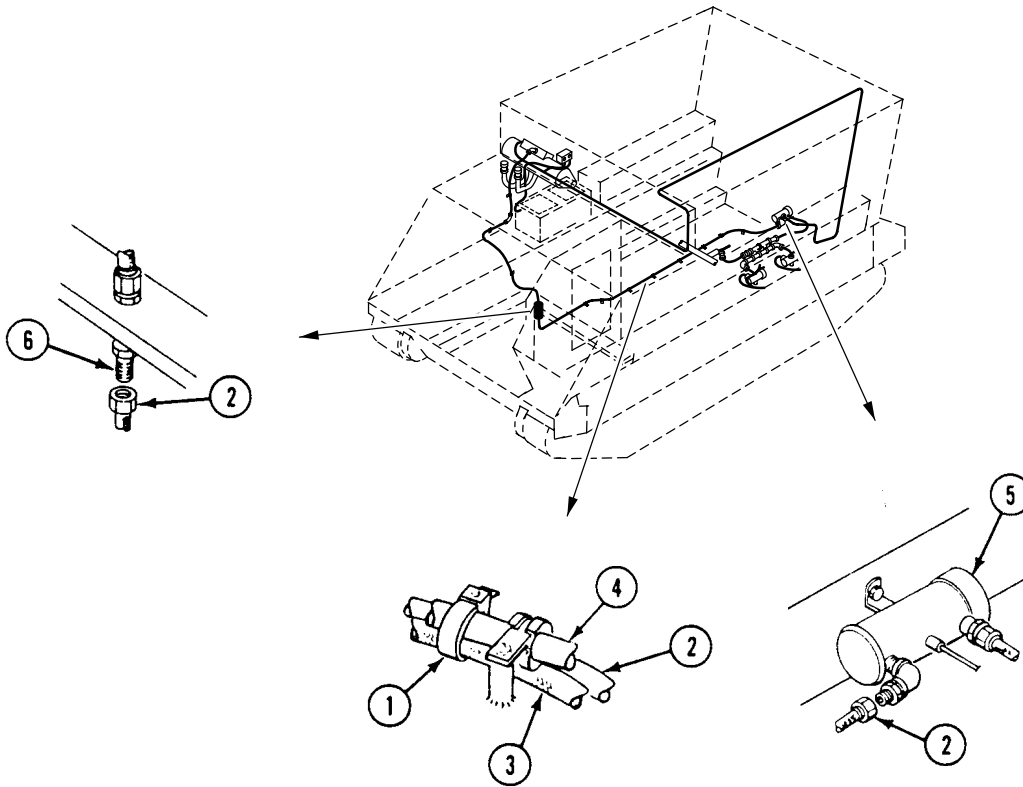
REMOVAL

**WARNING**



**Diesel fuel can catch fire and seriously injure or kill soldiers and damage or destroy vehicle.  
 Wipe up fuel spills immediately. Do not smoke near fuel or when working on the fuel system.**

1. Remove nine straps (1) holding fuel hose (2) to hoses (3) and (4).
2. Disconnect fuel hose (2) from fuel pump (5) and nipple (6). Remove hose from carrier.



---

**REPLACE ELECTRONIC EQUIPMENT HEATER FUEL PUMP TO BULKHEAD CONNECTION HOSE (M577A2 ONLY) — Continued**

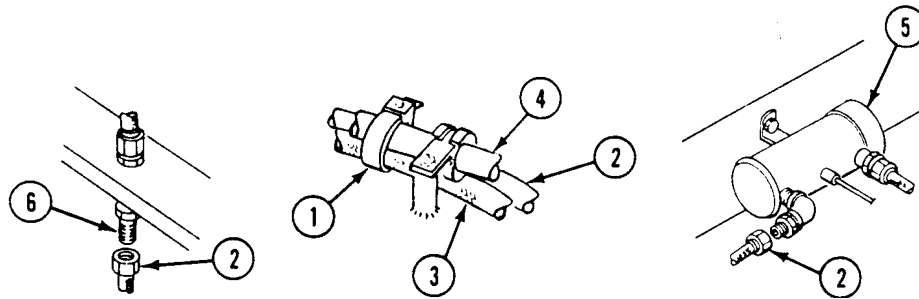

---

0628 00

**INSTALLATION****NOTE**

Replacing a flareless fuel hose or tube assembly may also require new mating fittings such as a tee, elbow, or adapter.

1. Connect fuel hose (2) to nipple (6) and fuel pump (5).
2. Secure hose (2) to hoses (3) and (4) with nine straps (1).

**FOLLOW-THROUGH STEPS**

1. Open heater fuel shutoff valve (see your -10).
2. Connect battery ground lead (WP 0294 00).
3. Bleed fuel line (WP 0599 00).
4. Start heater (see your -10). Check pump for fuel leaks. Turn heater off.
5. Install right front and rear floor plates (WP 0436 00).
6. Install personnel heater duct (WP 0617 00).
7. Raise and lock ramp (see your -10).
8. Stop engine (see your -10).

**END OF TASK**

---

**REPLACE ELECTRONIC EQUIPMENT HEATER BULKHEAD TO  
HEATER HOSES (M577A2 ONLY)**

---

**0629 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0629 00-2).
  - Installation (page 0629 00-4).
- 

**INITIAL SETUP:**

Maintenance Level

Unit

References

WP 0633 00

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0780 00, Item 29)
- Pipe Wrench (WP 0780 00, Item 93)

Equipment Condition

- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- Ramp lowered (see your -10)
- Battery ground lead disconnected (WP 0294 00)
- Personnel heater duct removed (WP 0617 00)
- Right front floor plate removed (WP 0436 00)
- Power plant rear access panel removed (WP 0433 00)
- Heater fuel shutoff valve closed (see your -10)

Materials/Parts

- Sealing compound (WP 0782 00, Item 62)
- Locknut
- Lockwasher (2)

Personnel Required

- Unit Mechanic
  - Helper (H)
-

REPLACE ELECTRONIC EQUIPMENT HEATER BULKHEAD TO HEATER  
HOSES (M577A2 ONLY) — Continued

0629 00

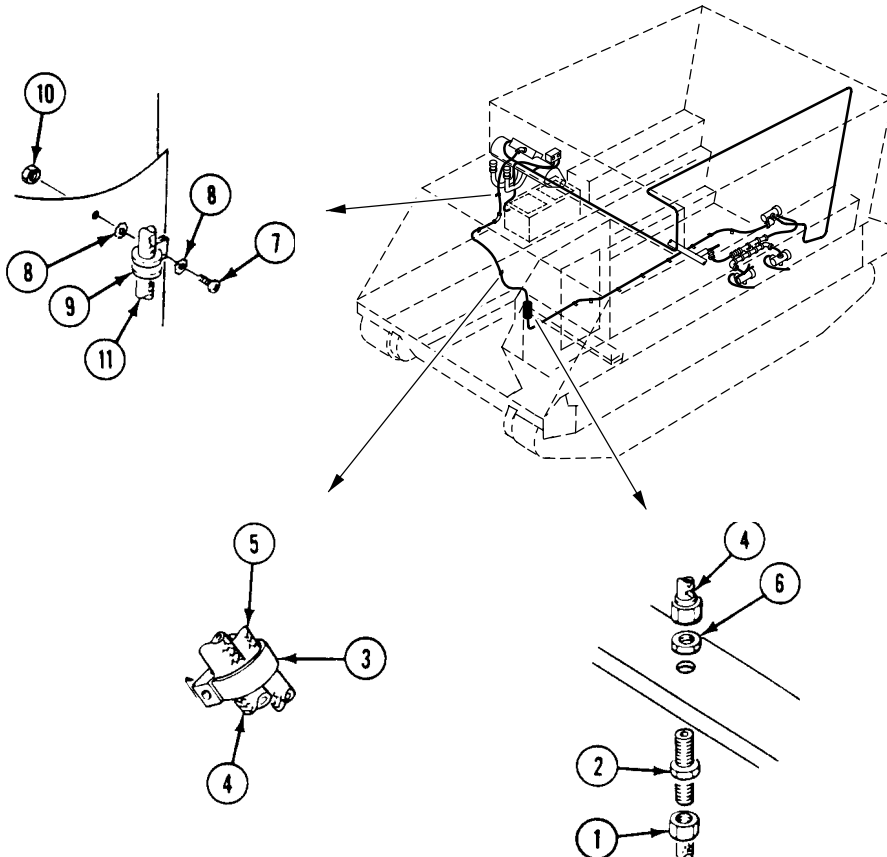
REMOVAL

**WARNING**



**Diesel fuel can catch fire and seriously injure or kill soldiers and damage or destroy vehicles. Wipe up fuel spills immediately. Do not smoke near fuel or when working on the fuel system.**

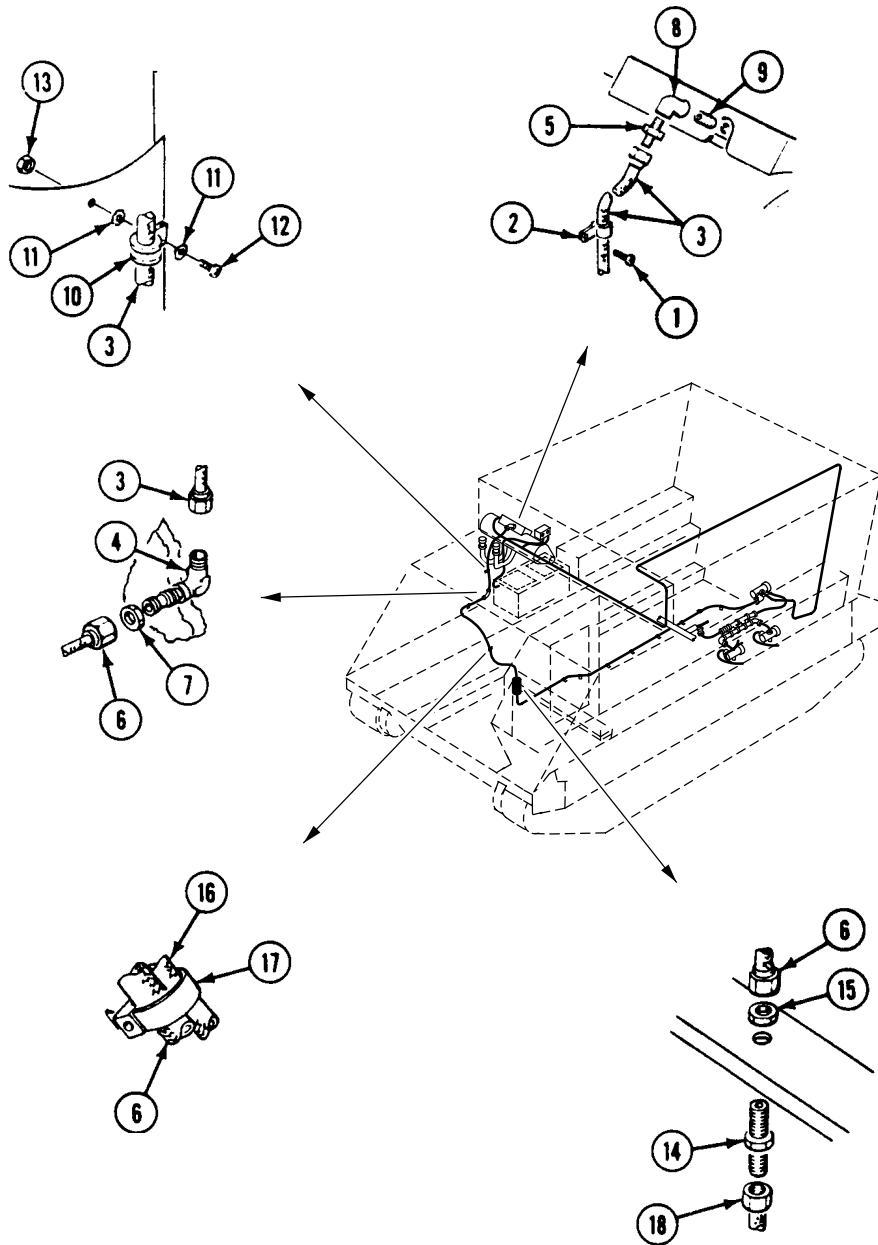
1. Remove fuel hose (1) from nipple (2).
2. Remove two straps (3) from fuel hose (4) and hose (5).
3. Remove fuel hose (4) from nipple (2).
4. Remove jamnut (6) and nipple (2) from hull.
5. Remove screw (7), two lockwashers (8), clamp (9), and locknut (10) from personnel heater heat shield. Discard lockwashers and locknut.
6. Remove clamp (9) from hose (11).
7. Lower heater from mounts (WP 0633 00). Have helper support heater.



**REPLACE ELECTRONIC EQUIPMENT HEATER BULKHEAD TO HEATER  
HOSES (M577A2 ONLY) — Continued**

0629 00

8. Remove screw (1) and clamp (2) from bulkhead.
9. Remove clamp (2) from hose (3).
10. Remove hose (3) from elbow (4) and adapter (5).
11. Remove hose (6), jamnut (7), and elbow (4) from power plant compartment bulkhead.
12. Remove adapter (5), elbow (8), and nipple (9) from heater.
13. Raise and secure heater (WP 0633 00). Have helper assist.



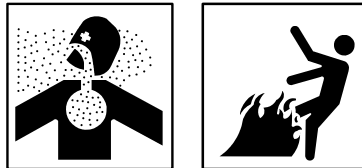


---

**REPLACE ELECTRONIC EQUIPMENT HEATER BULKHEAD TO HEATER  
HOSES (M577A2 ONLY) — Continued**

---

0629 00

**INSTALLATION****WARNING**

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

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

1. Apply light coat of sealing compound to all external tapered threads. Do not apply sealant beyond small end of tapered threads.
2. Lower heater from mounts (WP 0633 00). Have helper support heater.

**NOTE**

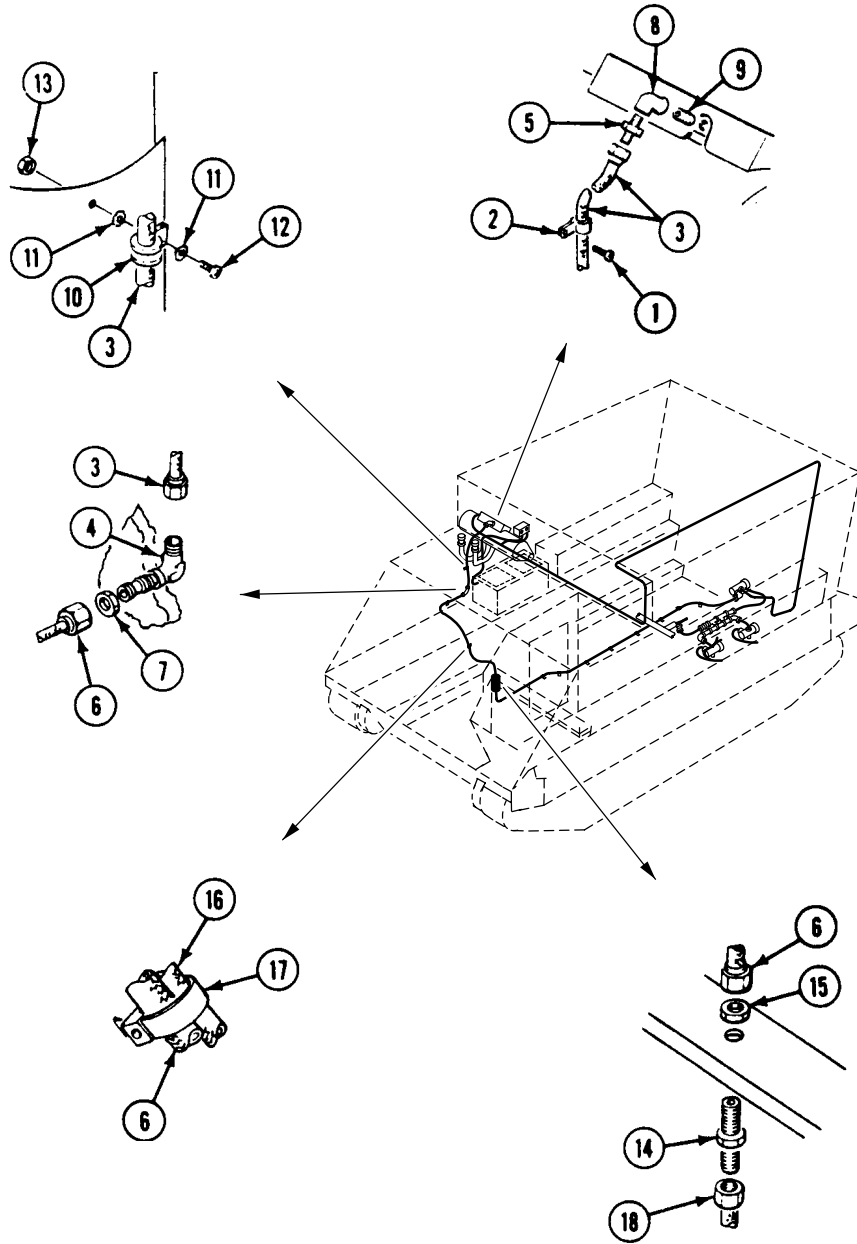
**Replacing a flareless fuel hose or tube assembly may also require new mating fittings such as a tee, elbow, or adapter.**

3. Install nipple (9), elbow (8), and adapter (5) on heater.
4. Install elbow (4) in power plant compartment bulkhead. Secure with jamnut (7).
5. Install hose (3) on adapter (5).
6. Install clamp (2) on hose (3). Secure to bulkhead with screw (1).
7. Install clamp (10) on hose (3). Secure to heat shield with two new lockwashers (11), screw (12), and new locknut (13).
8. Raise heater and secure to mounts (WP 0633 00). Have helper assist.
9. Install hose (3) on elbow (4).
10. Install nipple (14) on hull. Secure with jamnut (15).
11. Install hose (6) on nipple (14) and elbow (4).
12. Secure hose (6) to hose (16) with two straps (17).

REPLACE ELECTRONIC EQUIPMENT HEATER BULKHEAD TO HEATER  
HOSES (M577A2 ONLY) — Continued

0629 00

13. Install hose (18) on nipple (14).



---

**REPLACE ELECTRONIC EQUIPMENT HEATER BULKHEAD TO HEATER  
HOSES (M577A2 ONLY) — Continued**

---

**0629 00**

**FOLLOW-THROUGH STEPS**

1. Open heater fuel shutoff valve (see your -10).
2. Connect battery ground lead (WP 0294 00).
3. Bleed fuel line (WP 0599 00).
4. Start heater (see your -10). Check pump for fuel leaks. Turn heater off.
5. Install power plant rear access panel (WP 0433 00).
6. Install right front floor plate (WP 0436 00).
7. Install personnel heater duct (WP 0617 00).
8. Raise and lock ramp (see your -10).
9. Stop engine (see your -10).

**END OF TASK**

**REPLACE ELECTRONIC EQUIPMENT HEATER CONTROL BOX (M577A2 ONLY)**

**0630 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0630 00-1).
- Installation (page 0630 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

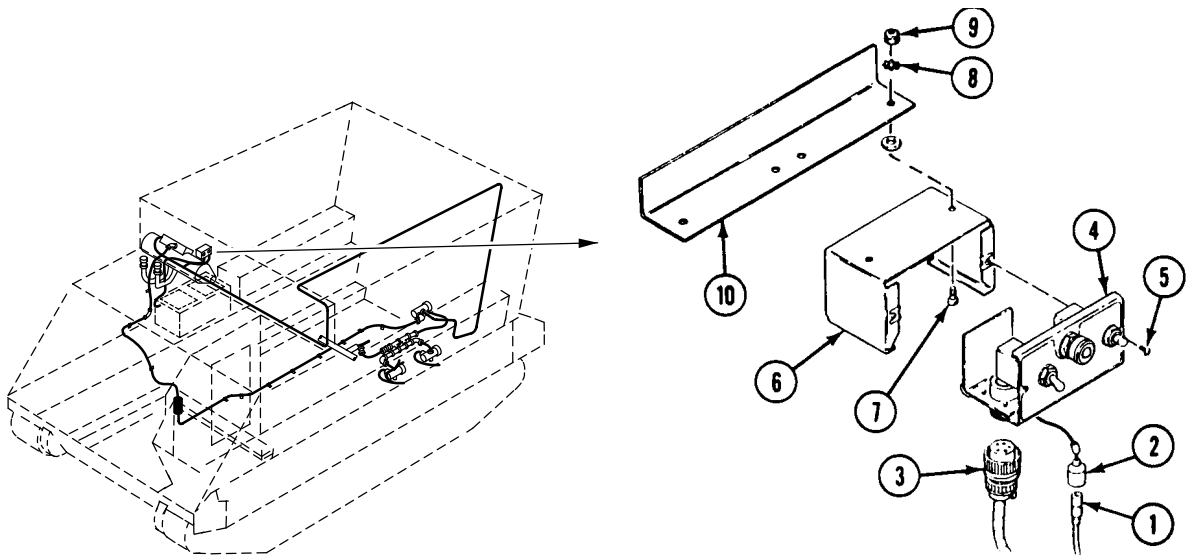
- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- Battery ground lead disconnected (WP 0294 00)

Materials/Parts

- Locknut (2)
- Lockwasher (4)

**REMOVAL**

1. Disconnect circuit 400A lead (1) from control box lead (2).
2. Disconnect heater wiring harness (3) from control box (4).
3. Remove two screws (5) and control box (4) from control box case (6).
4. Remove two screws (7), case (6), four lockwashers (8), and two locknuts (9) from support bracket (10). Discard lockwashers and locknuts.

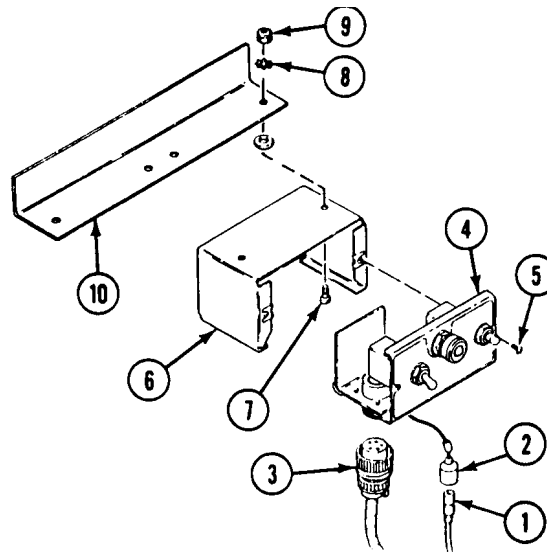


**REPLACE ELECTRONIC EQUIPMENT HEATER CONTROL BOX (M577A2 ONLY) — Continued**

0630 00

**INSTALLATION**

1. Place four new lockwashers (8) and control box case (6) on support bracket (10). Secure with two screws (7) and two new locknuts (9).
2. Install control box (4) in control box case (6). Secure with two screws (5).
3. Connect heater wiring harness (3) to control box (4).
4. Connect control box lead (2) to circuit 400A lead (1).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Start heater (see your -10). Check that heater control box works properly. Turn heater off.

**END OF TASK**

---

**REPLACE ELECTRONIC EQUIPMENT HEATER CONTROL  
BOX-TO-FUEL PUMP LEAD (M577A2 ONLY)**

---

**0632 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0632 00-2).  
Installation (page 0632 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Ramp lowered (see your -10)

Battery ground lead disconnected (WP 0294 00)

Rear floor plate removed (WP 0436 00)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Personnel Required

Unit Mechanic

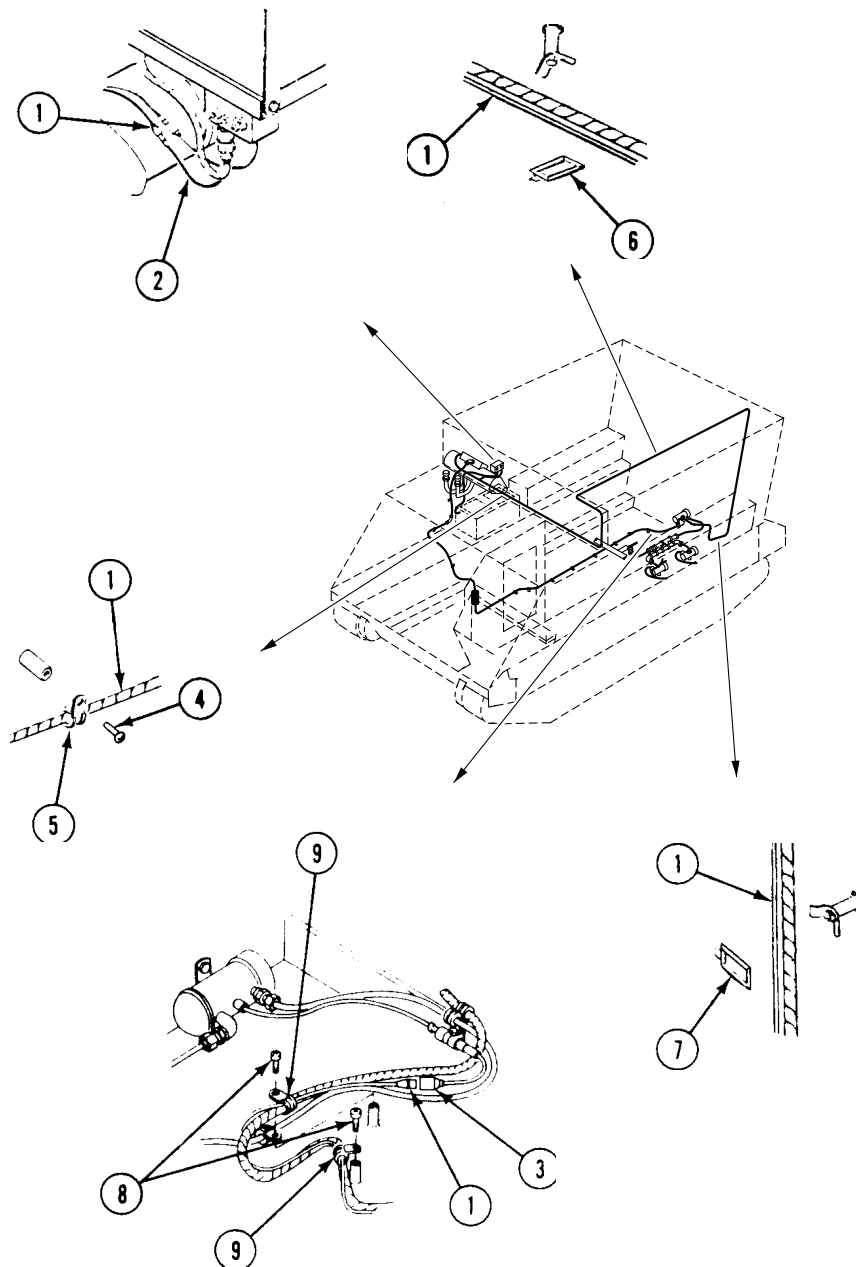
---

**REPLACE ELECTRONIC EQUIPMENT HEATER CONTROL BOX-TO-FUEL PUMP LEAD (M577A2 ONLY) — Continued**

0632 00

**REMOVAL**

1. Disconnect circuit 402A lead (1) from wiring harness lead (2).
2. Disconnect circuit 402A lead (1) from fuel pump lead (3).
3. Remove five screws (4) clamps (5), and lead (1) from forward bulkhead weldnuts.
4. Remove ten clips (6) and lead (1) from compartment roof cradles.
5. Remove six clips (7) and lead (1) from rear bulkhead cradles.
6. Remove two screws (8), clamps (9), and lead (1) from floor weldnuts.
7. Remove five clamps (5) and two clamps (9) from lead (1). Remove lead from carrier.

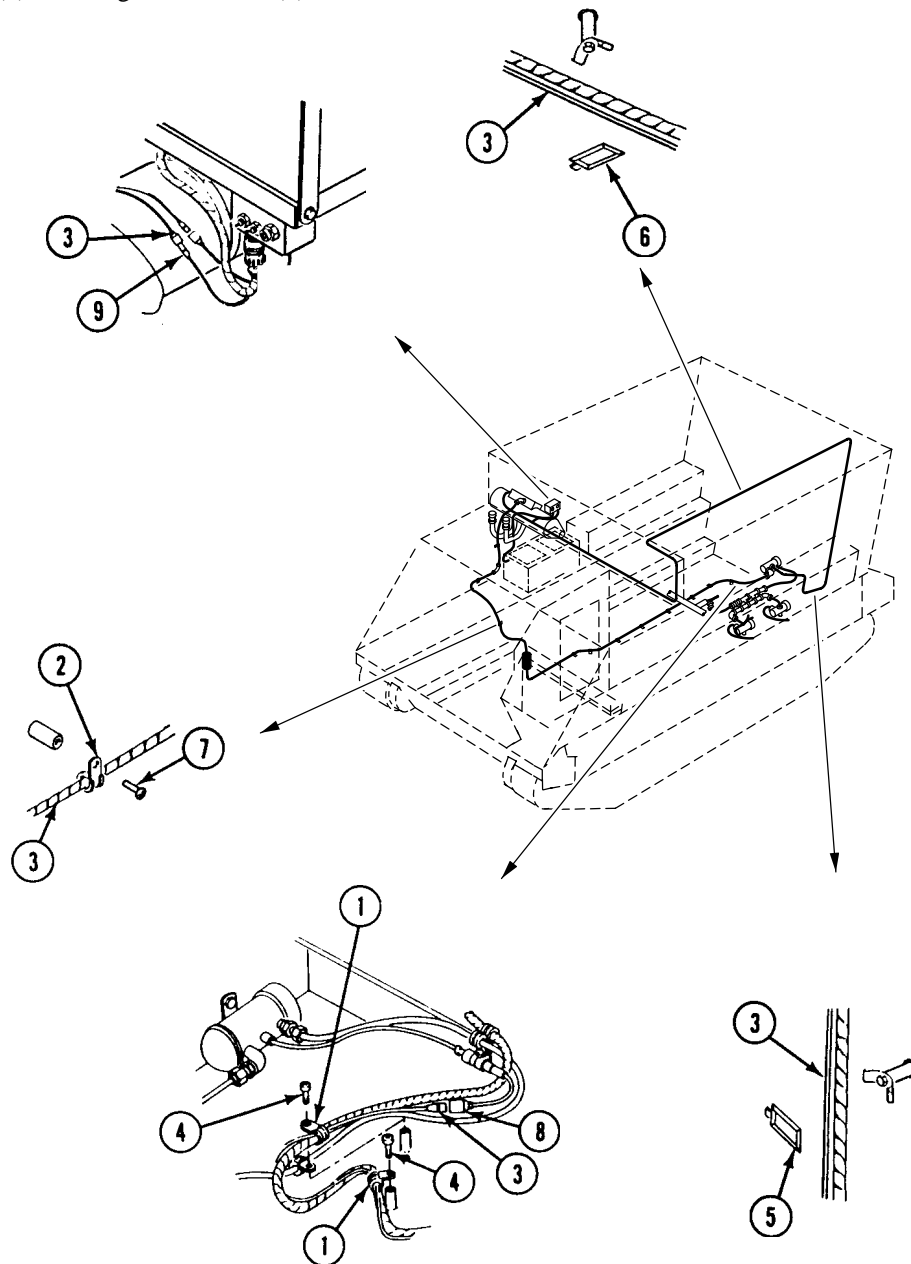


**REPLACE ELECTRONIC EQUIPMENT HEATER CONTROL BOX-TO-FUEL PUMP LEAD (M577A2 ONLY) — Continued**

0632 00

**INSTALLATION**

1. Install two clamps (1) and five clamps (2) on circuit 402A lead (3).
2. Place two clamps (1) on two floor weldnuts. Secure with two screws (4).
3. Place lead (3) in six cradles on rear bulkhead. Secure with six clips (5).
4. Place lead (3) in ten cradles on compartment roof. Secure with ten clips (6).
5. Place five clamps (2) on forward bulkhead weldnuts. Secure with five screws (7).
6. Connect lead (3) to fuel pump lead (8).
7. Connect lead (3) to wiring harness lead (9).





---

**REPLACE ELECTRONIC EQUIPMENT HEATER CONTROL BOX-TO-FUEL  
PUMP LEAD (M577A2 ONLY) — Continued**

---

**0632 00**

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Start heater (see your -10). Check that lead is installed properly. Turn heater off.
3. Install rear floor plate (WP 0436 00).
4. Raise and lock ramp (see your -10).
5. Stop engine (see your -10).

**END OF TASK**

---

**REPLACE ELECTRONIC EQUIPMENT HEATER ASSEMBLY AND  
MOUNTING BRACKETS (M577A2 ONLY)**

---

**0633 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0633 00-2).  
Installation (page 0633 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

References

WP 0626 00  
WP 0634 00

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)  
Carrier blocked (see your -10)  
Battery ground lead disconnected (WP 0294 00)  
Heater control box removed (WP 0630 00)

Materials/Parts

Locknut (6)  
Lockwasher (9)

Personnel Required

Unit Mechanic

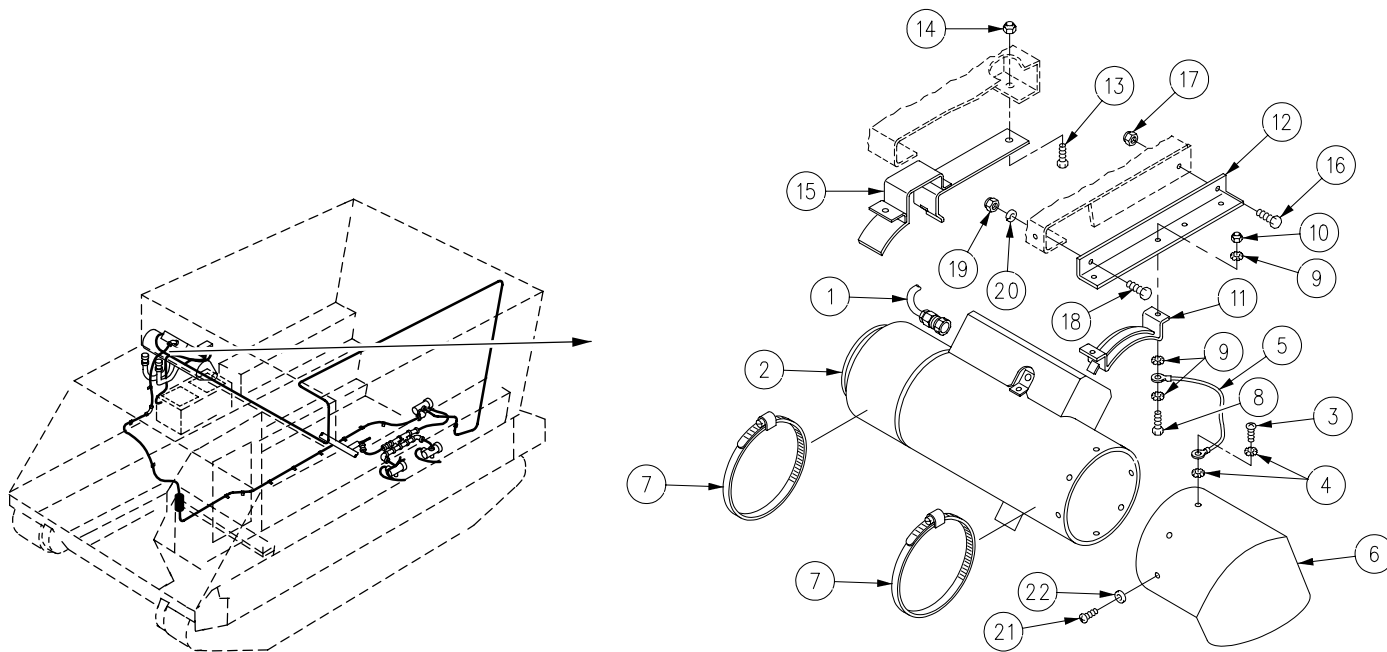
---

**REPLACE ELECTRONIC EQUIPMENT HEATER ASSEMBLY AND MOUNTING BRACKETS (M577A2 ONLY) — Continued**

**0633 00**

**REMOVAL**

1. Disconnect wiring harness (1) from heater (2).
2. Remove screw (3), two lockwashers (4), and ground lead (5) from heater elbow (6). Discard lockwashers.
3. Remove intake and exhaust pipes from heater (WP 0634 00).
4. Open two clamps (7) and lower heater (2).
5. Remove fuel hose and fittings from heater (WP 0626 00). Remove heater (2) from carrier.
6. Remove two screws (8), three lockwashers (9), ground lead (5), two locknuts (10), and saddle (11) from bracket (12). Discard lockwashers and locknuts.
7. Remove two screws (13), locknuts (14), and rear support bracket (15) from radio mount platform. Discard locknuts.
8. Remove screw (16), locknut (17), screw (18), locknut (19), lockwasher (20), and bracket (12) from radio mount platform. Discard locknuts and lockwasher.
9. Remove three screws (21), lockwashers (22), and elbow (6) from heater (2). Discard lockwashers.

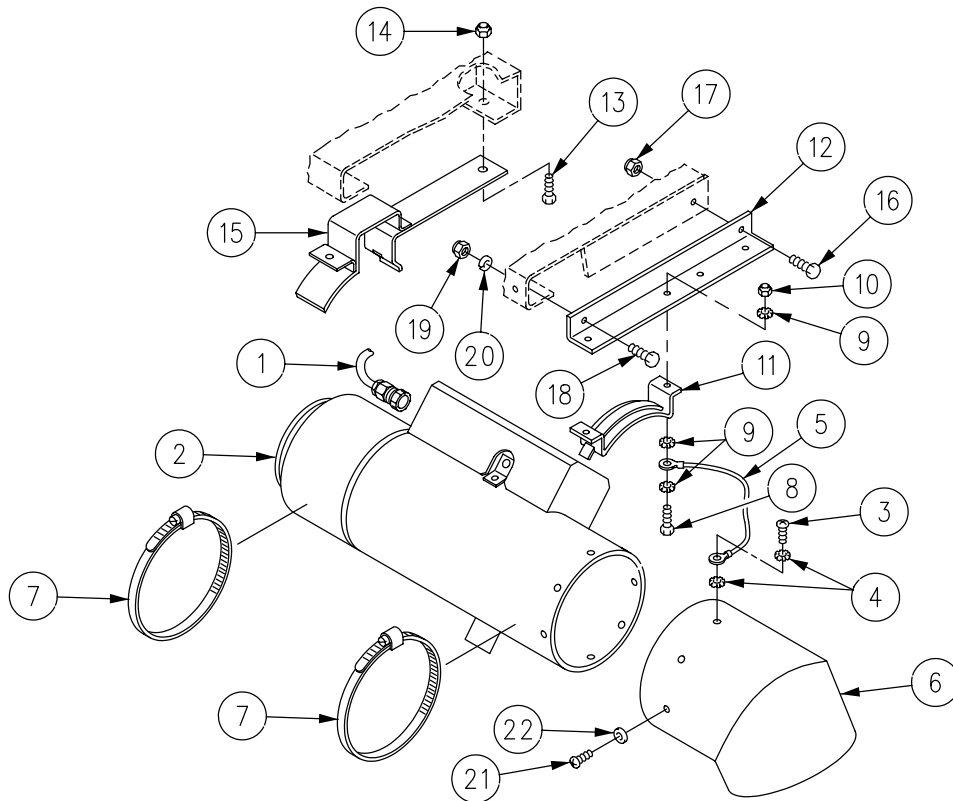


**REPLACE ELECTRONIC EQUIPMENT HEATER ASSEMBLY AND MOUNTING  
BRACKETS (M577A2 ONLY) — Continued**

0633 00

**INSTALLATION**

1. Install elbow (6) on heater (2). Secure with three new lockwashers (22) and screws (21).
2. Install bracket (12) on radio mount platform. Secure with screw (18), new lockwasher (20), new locknut (19), screw (16), and new locknut (17).
3. Install rear support bracket (15) on radio mount platform. Secure with two screws (13) and new locknuts (14).
4. Install saddle (11) on bracket (12). Secure with two screws (8), three new lockwashers (9), ground lead (5), and two new locknuts (10).
5. Install fuel hose and fittings on heater (WP 0626 00).
6. Install heater (2) in saddle (11) and rear support bracket (15). Secure with two clamps (7).
7. Install intake and exhaust pipes on heater (WP 0634 00).
8. Install ground lead (5) on elbow (6). Secure with two new lockwashers (4) and screw (3).
9. Connect wiring harness (1) to heater (2).


**FOLLOW-THROUGH STEPS**

1. Install heater control box (WP 0630 00).
2. Connect battery ground lead (WP 0294 00).
3. Start heater (see your -10). Check that it works properly. Turn heater off.

**END OF TASK**

**REPLACE ELECTRONIC EQUIPMENT HEATER AIR INTAKE HOSE AND EXHAUST PIPE (M577A2 ONLY)**

**0634 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0634 00-1).  
 Installation (page 0634 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

WP 0633 00

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)  
 Carrier blocked (see your -10)  
 Battery ground lead disconnected (WP 0294 00)

Materials/Parts

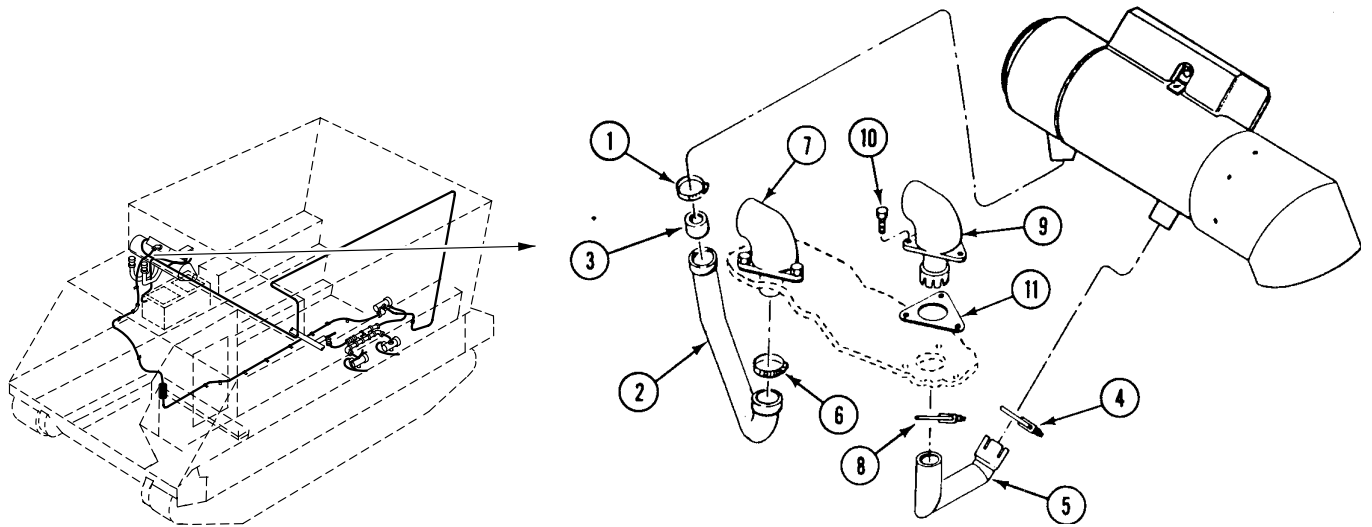
Adhesive (WP 0782 00, Item 4)  
 Gasket (2)

Personnel Required

Unit Mechanic

**REMOVAL**

1. Loosen clamp (1). Remove hose (2) with hose (3) and clamp (1) from heater intake.
2. Loosen clamp (4) on exhaust pipe (5).
3. Remove heater from carrier (WP 0633 00).
4. Loosen clamp (6). Remove hose (2) and clamp (6) from intake elbow (7).
5. Loosen clamp (8). Remove exhaust pipe (5) and clamp (8) from exhaust elbow (9).
6. Remove six screws (10), intake elbow (7), exhaust elbow (9), and two gaskets (11) from carrier top deck. Discard gaskets.

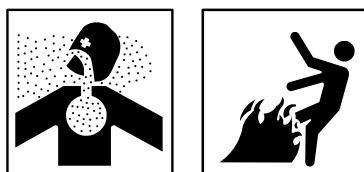


**REPLACE ELECTRONIC EQUIPMENT HEATER AIR INTAKE HOSE AND EXHAUST PIPE (M577A2 ONLY) — Continued**

0634 00

**INSTALLATION**

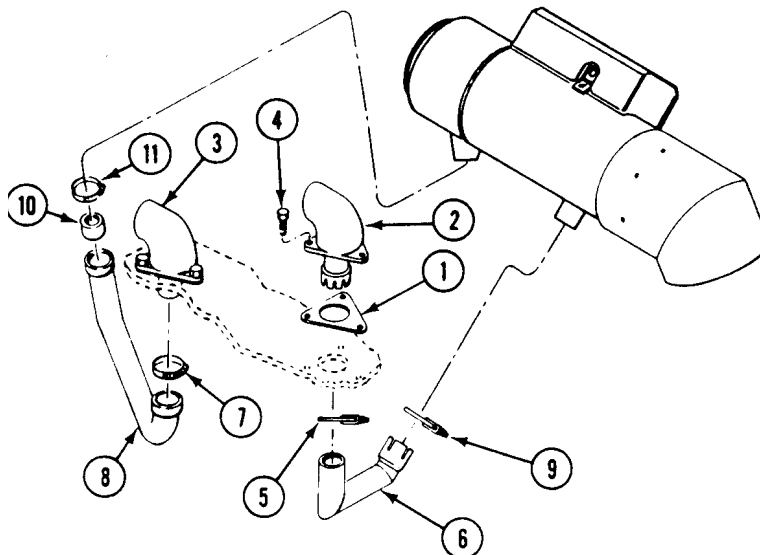
1. Place two new gaskets (1), exhaust elbow (2), and intake elbow (3) on carrier top deck. Secure with six screws (4).
2. Install clamp (5) and exhaust pipe (6) on exhaust elbow (2). Tighten clamp.
3. Install clamp (7) and hose (8) on intake elbow (3). Tighten clamp.
4. Install heater in carrier (WP 0633 00).
5. Install clamp (9) and exhaust pipe (6) on heater. Tighten clamp.

**WARNING**


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

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

6. If hoses (8) and (10) are being replaced, apply adhesive to new hose (10). Install hose (10) in hose (8).
7. Install clamp (11) and hose (8) with hose (10) on heater intake. Tighten clamp.


**FOLLOW-THROUGH STEPS**

1. Connect battery ground strap (WP 0294 00).
2. Start heater (see your -10). Check for intake and exhaust leaks. Turn heater off.

**END OF TASK**

CHAPTER 33

UNIT MAINTENANCE INSTRUCTIONS  
FOR ENGINE COOLANT HEATER KIT

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| HEATER COOLANT FLOW DIAGRAM.....  | .0635 00            |
| REPLACE FLAME DETECTOR SWITCH.....  | .0636 00            |
| REPAIR FLAME DETECTOR SWITCH.....   | .0637 00            |
| REPLACE IGNITER.....  | .0638 00            |
| DRAIN AND FILL ENGINE COOLANT HEATER SYSTEM.....  | .0639 00            |
| REPLACE COOLANT HEATER FUEL PUMP (M113A2, M901A1, AND M1059 ONLY).....                                | .0640 00            |
| REPLACE COOLANT HEATER FUEL PUMP (M577A2 AND M1068 ONLY).....   | .0641 00            |
| REPLACE COOLANT HEATER FUEL PUMP TO BULKHEAD CONNECTION HOSE<br>(M113A2, M1059, AND M901A1 ONLY)..... | .0642 00            |
| REPLACE COOLANT HEATER FUEL PUMP TO BULKHEAD CONNECTION HOSE<br>(M577A2 AND M1068 ONLY).....          | .0643 00            |
| REPLACE BULKHEAD CONNECTION TO COOLANT HEATER FUEL INLET HOSE TUBE.....                               | .0644 00            |
| REPLACE COOLANT HEATER FUEL INLET HOSE.....   | .0645 00            |
| REPLACE COOLANT HOSES AND FITTINGS .....  | .0646 00            |
| REPLACE COOLANT HEATER EXHAUST ELBOW AND PIPES.....   | .0647 00            |
| REPLACE/REPAIR COOLANT HEATER CONTROL BOX.....  | .0648 00            |
| REPLACE COOLANT PUMP TO COOLANT HEATER WIRING HARNESS.....  | .0649 00            |
| REPLACE COOLANT HEATER AND PUMP UNIT.....   | .0650 00            |
| REPLACE COOLANT HEATER.....   | .0651 00            |
| REPLACE COOLANT HEATER PUMP .....   | .0652 00            |

---

**HEATER COOLANT FLOW DIAGRAM**

---

**0635 00**

**THIS WORK PACKAGE COVERS:**

---

**INITIAL SETUP:**

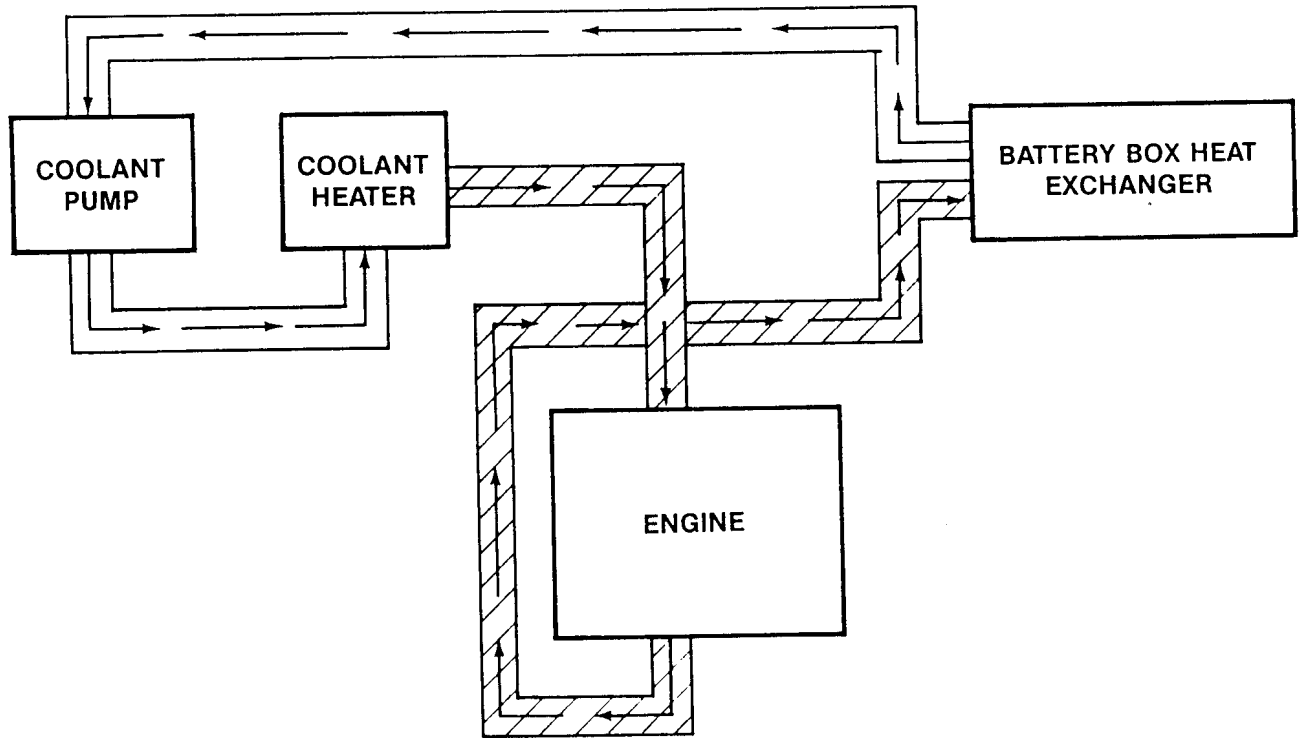
Maintenance Level

Unit

---

**INSPECTION OF INSTALLED ITEMS**

This diagram shows the heater coolant flow.



- HEATED COOLANT
- RETURN COOLANT

**END OF TASK**



**REPLACE FLAME DETECTOR SWITCH**

**0636 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0636 00-1).
- Inspection-Acceptance and Rejection Criteria (page 0636 00-1).
- Installation (page 0636 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Coolant heater and pump unit removed (WP 0650 00)

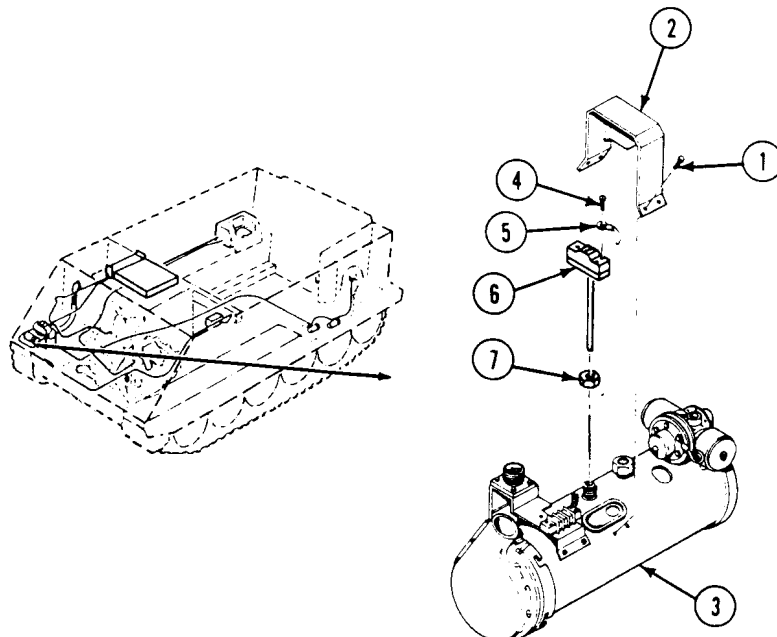
**REMOVAL**

1. Remove four screws (1) and guard (2) from heater (3).

**NOTE**

**Tag all leads before removal.**

2. Remove five screws (4) and leads (5) from flame detector switch (6).
3. Loosen nut (7) on switch (6). Pull switch straight out from heater (3).



**INSPECTION-ACCEPTANCE AND REJECTION CRITERIA**

1. Check leads and connectors. Replace worn leads and damaged connectors (WP 0312 00).

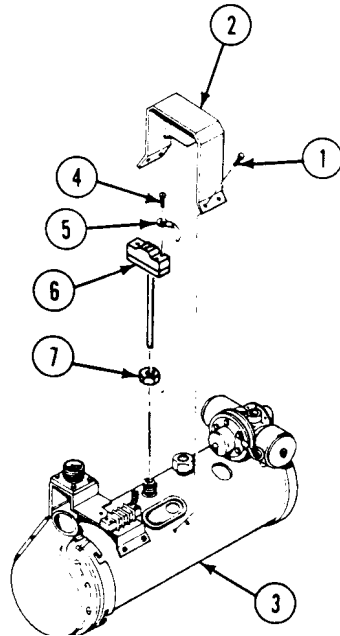
**INSTALLATION**

1. Install flame detector switch (6) in heater (3). Secure with nut (7) on switch.

**NOTE**

**Check tags on leads to make sure of proper connections.**

2. Place five leads (5) on switch (6). Secure with five screws (4).
3. Place guard (2) on heater (3). Secure with four screws (1).

**FOLLOW-THROUGH STEPS**

1. Install coolant heater and pump unit (WP 0650 00).
2. Start heater (see your -10). Check that flame detector switch works right. Turn heater off.

**END OF TASK**

---

**REPAIR FLAME DETECTOR SWITCH**

---

**0637 00**

---

**THIS WORK PACKAGE COVERS:**

- Disassembly (page 0637 00-2).
  - Clean, Inspect, and Repair (page 0637 00-2).
  - Assembly (page 0637 00-3).
  - Adjust (page 0637 00-4).
- 

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Flame detector switch removed (WP 0636 00)

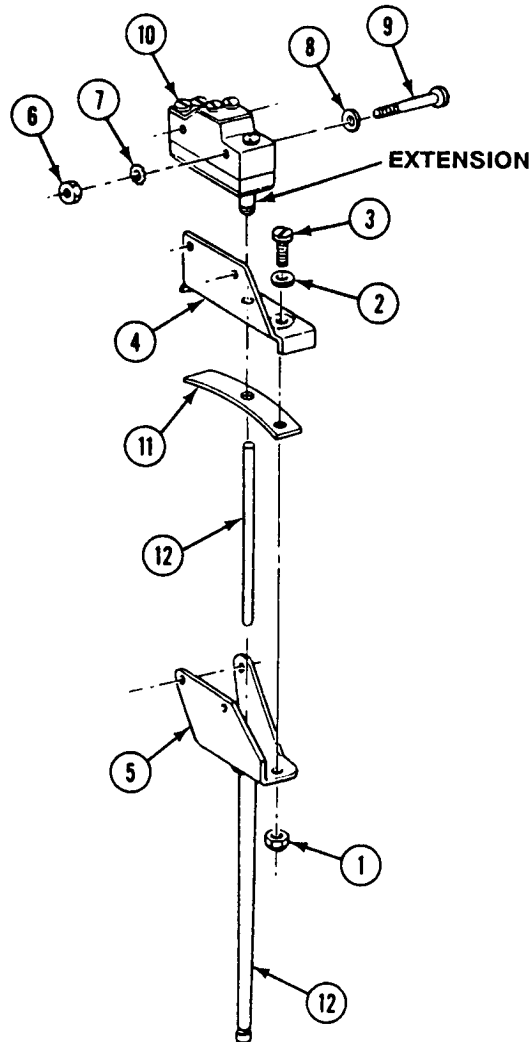
Materials/Parts

Sealing compound (WP 0782 00, Item 60)

---

**DISASSEMBLY**

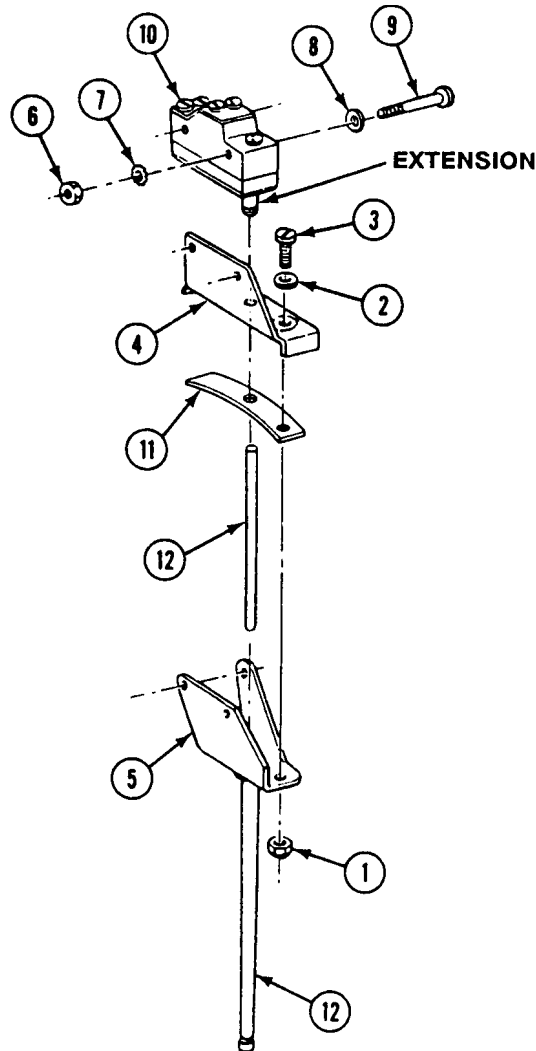
1. Remove nut (1), washer (2), and adjusting screw (3) from mount (4) and housing (5). Clean off old cement from screw (3) and mount (4).
2. Remove two nuts (6), washers (7) and (8), and screws (9) from switch (10). Remove switch from mount (4).
3. Remove housing (5) and bow spring (11).
4. Turn housing (5) over. Carefully slide ceramic rod (12) from housing.

**CLEAN, INSPECT, AND REPAIR**

1. Inspect ceramic rod. If rod is chipped, cracked, or broken, install a new rod.
2. Inspect housing. If housing is bent or cracked, install a new switch.

**ASSEMBLY**

1. Carefully insert ceramic rod (12) into housing (5).
2. Install bow spring (11) in mount (4).
3. Install switch (10) in mount (4) and housing (5). Be sure ceramic rod (12) fits into extension on switch.
4. Install switch (10) on mount (4) and housing (5). Secure with two screws (9), washers (8), washers (7), and nuts (6). Do not tighten.



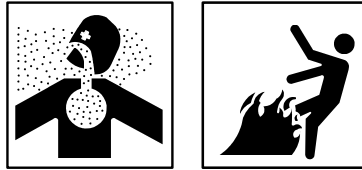
**ADJUST**

1. Loosen mounting screws (1).
2. Back off adjusting screw (2) until switch (3) clicks.
3. Slowly turn screw (2) inward until switch (3) clicks; then turn screw exactly 3/4 turn past the click point.
4. Tighten mounting screws (1).

---

**WARNING**

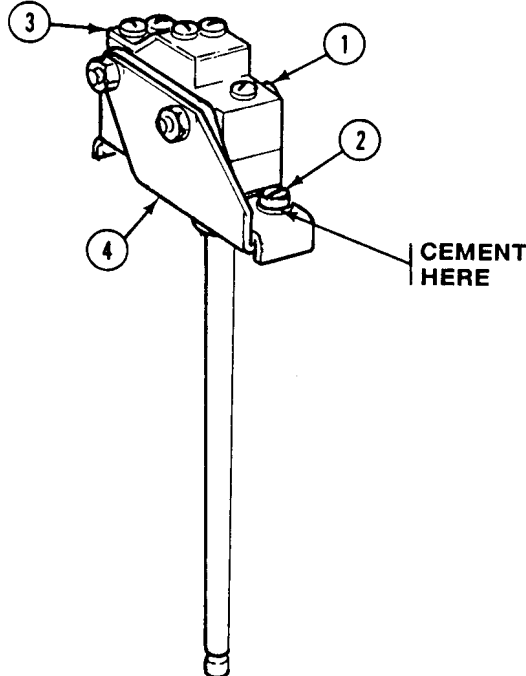

---



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

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

5. Cement screw (2) to mount (4) with sealing compound.

**FOLLOW-THROUGH STEPS**

1. Install flame detector switch (WP 0636 00).
2. Start heater (see your -10). Check switch for proper operation. Turn heater off.

**END OF TASK**

**REPLACE IGNITER**

**0638 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0638 00-1).
- Inspection (page 0638 00-1).
- Installation (page 0638 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

Gasket

Lockwasher

Personnel Required

Unit Mechanic

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

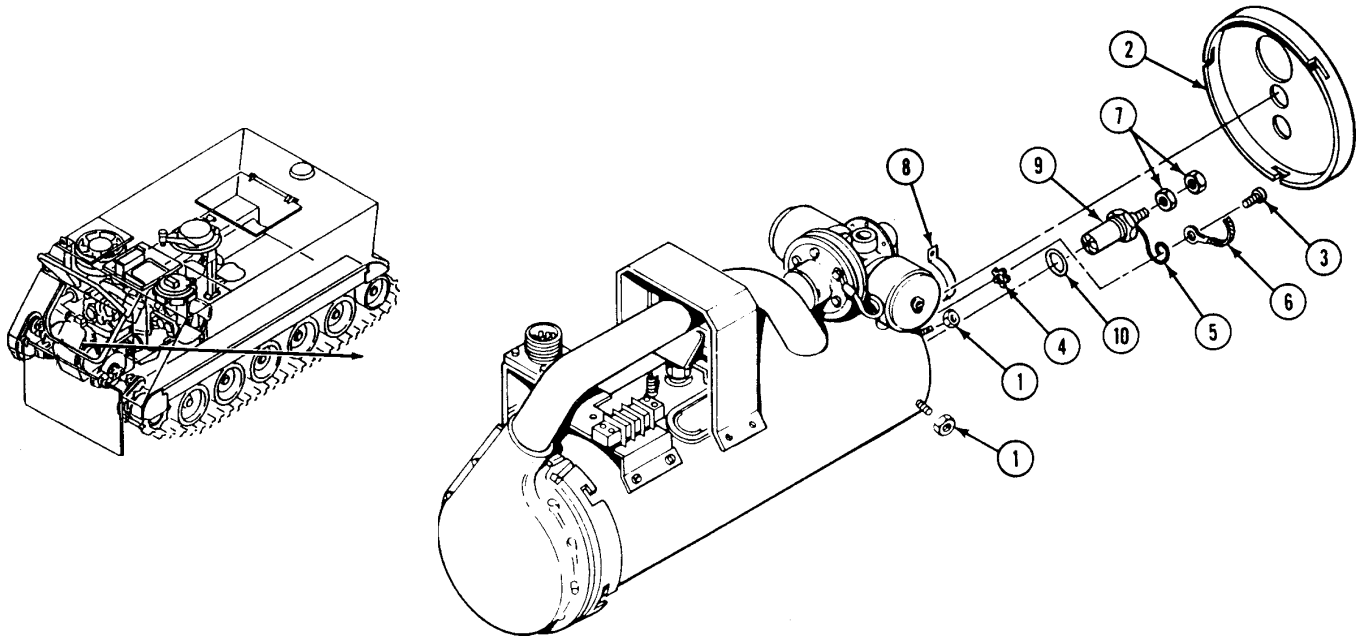
Trim vane lowered (see your -10)

Power plant access door open (see your -10)

Battery ground lead disconnected (WP 0294 00)

**REMOVAL**

1. Loosen four nuts (1). Turn cover plate (2) to the left and remove.
2. Remove screw (3), lockwasher (4), igniter ground lead (5), and ground strap (6) from coolant heater. Discard lockwasher.
3. Remove two nuts (7) and resistor strap (8) from igniter (9). Bend strap out of way.
4. Remove igniter (9) and gasket (10) from heater. Discard gasket.

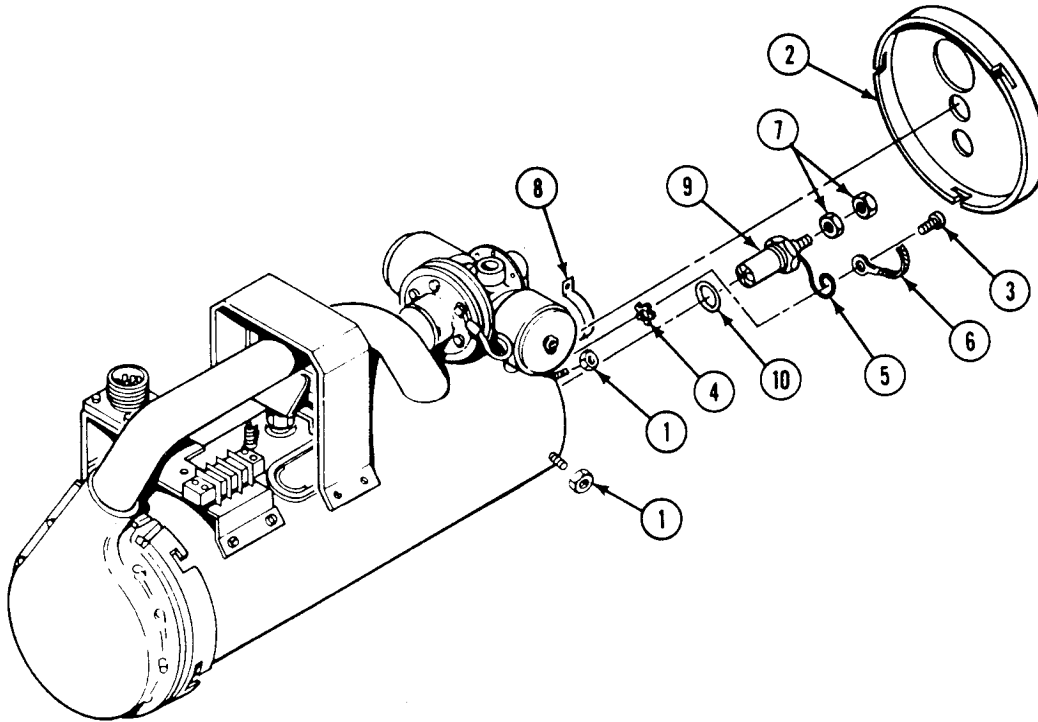


**INSPECTION**

1. Check ground strap. Replace igniter if strap is worn or broken.

**INSTALLATION**

1. Install new gasket (10) and igniter (9) in heater.
2. Place resistor strap (8) on igniter (9). Secure with two nuts (7).
3. Place ground strap (6) and igniter ground lead (5) on coolant heater. Secure with new lockwasher (4) and screw (3).
4. Place cover plate (2) on end of heater. Turn cover to right and secure with four nuts (1).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Start heater (see your -10). Check that igniter works right. Turn heater off.
3. Close power plant access door (see your -10).
4. Raise trim vane (see your -10).

**END OF TASK**



---

**DRAIN AND FILL ENGINE COOLANT HEATER SYSTEM**

---

**0639 00**

**THIS WORK PACKAGE COVERS:**

Drain (page 0639 00-2).  
 Fill (page 0639 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Personnel Required

Unit Mechanic

References

See your -10  
 WP 0193 00  
 WP 0194 00  
 WP 0302 00  
 WP 0303 00  
 WP 0309 00  
 WP 0310 00

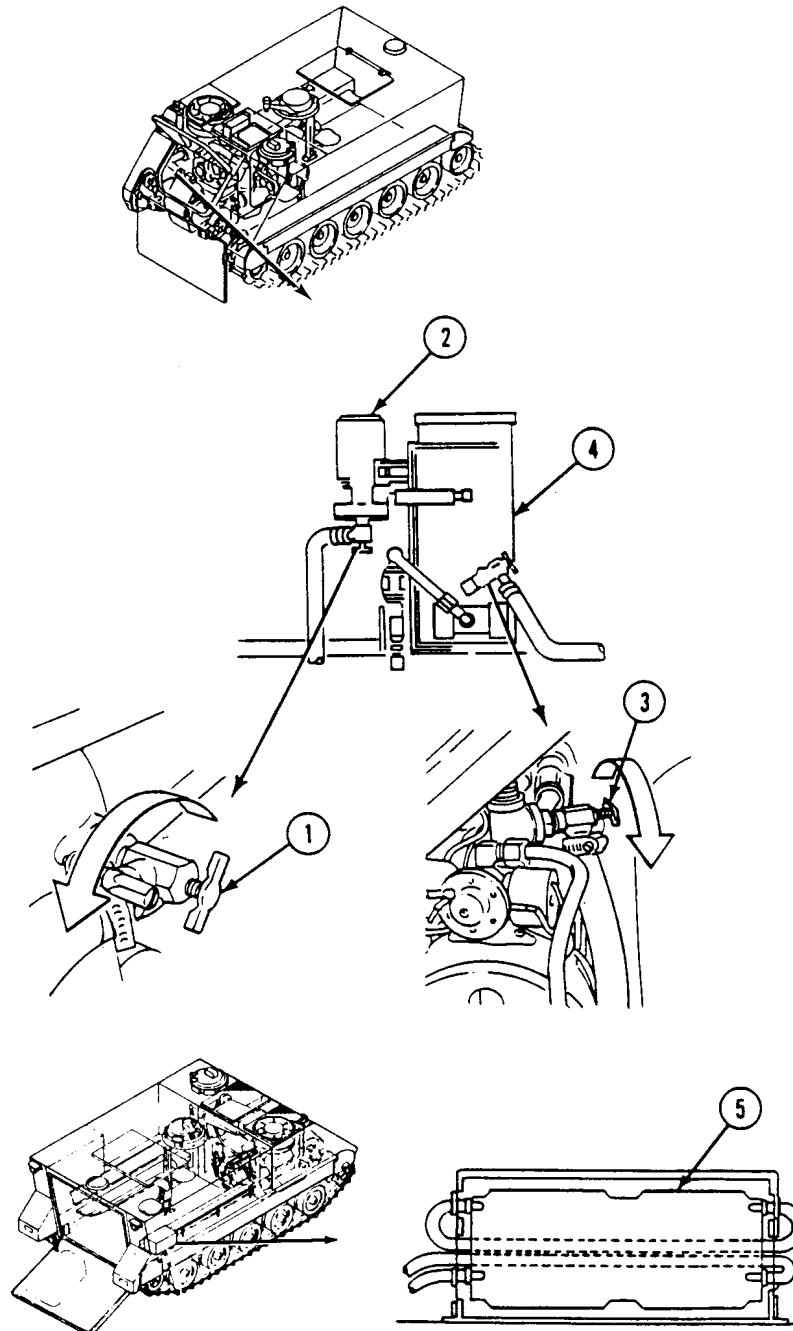
Equipment Condition

Engine stopped (see your -10)  
 Ramp lowered (see your -10)  
 Carrier blocked (see your -10)  
 Trim vane lowered (see your -10)  
 Power plant access door open (see your -10)

---

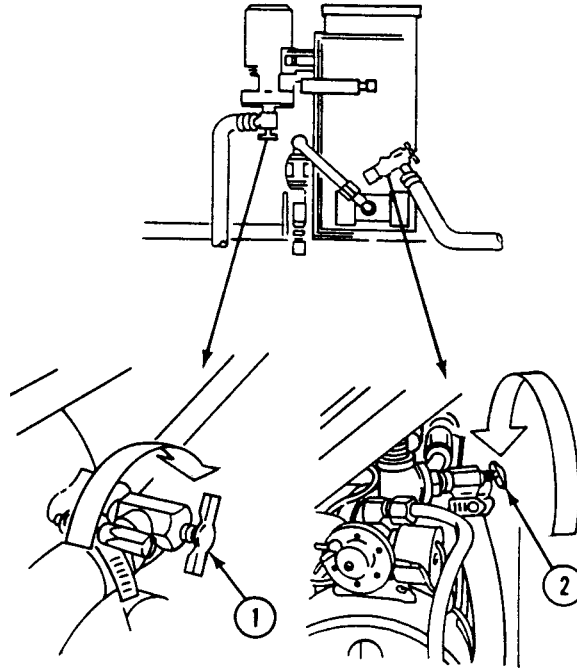
**DRAIN**

1. Open shutoff valve (1) at coolant pump (2) and valve (3) at heater (4).
2. Completely drain cooling system (WP 0193 00).
3. Remove batteries and retainers (WP 0302 00 or WP 0303 00).
4. Remove and drain battery box heat exchanger (5) (WP 0309 00 or WP 0310 00).
5. Install battery box heat exchanger (WP 0309 00 or WP 0310 00).
6. Install batteries and retainers (WP 0302 00 or WP 0303 00).



**FILL**

1. Close shutoff valves (1) and (2).



2. Fill cooling system (WP 0194 00).
3. Close heater fuel shutoff valve (see your -10).
4. Start engine (see your -10).
5. Hold RUN-OFF-START switch in START and run engine at 2,950 RPM for maximum 30 seconds to prime coolant pump.
6. Stop engine (see your -10). Refill cooling system (WP 0194 00).
7. Open heater fuel shutoff valve (see your -10).

**NOTE**

**Hoses to and from battery box heat exchanger will gradually increase in temperature and remain warm if heater coolant system is primed and coolant heater is operating right.**

8. Start heater (see your -10). Check for proper operation. If heater overheats and shuts off, repeat Steps 1 - 8. If problem persists, see WP 0070 00.

**FOLLOW-THROUGH STEPS**

1. Close power plant access door (see your -10).
2. Raise trim vane (see your -10).
3. Start engine (see your -10).
4. Raise and lock ramp (see your -10).
5. Stop engine (see your -10).

**END OF TASK**

**REPLACE COOLANT HEATER FUEL PUMP (M113A2, M901A1,  
AND M1059 ONLY)**

**0640 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0640 00-1).
- Installation (page 0640 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

- Sealing compound (WP 0782 00, Item 60)
- Locknut (2)
- Lockwasher (6)

Personnel Required

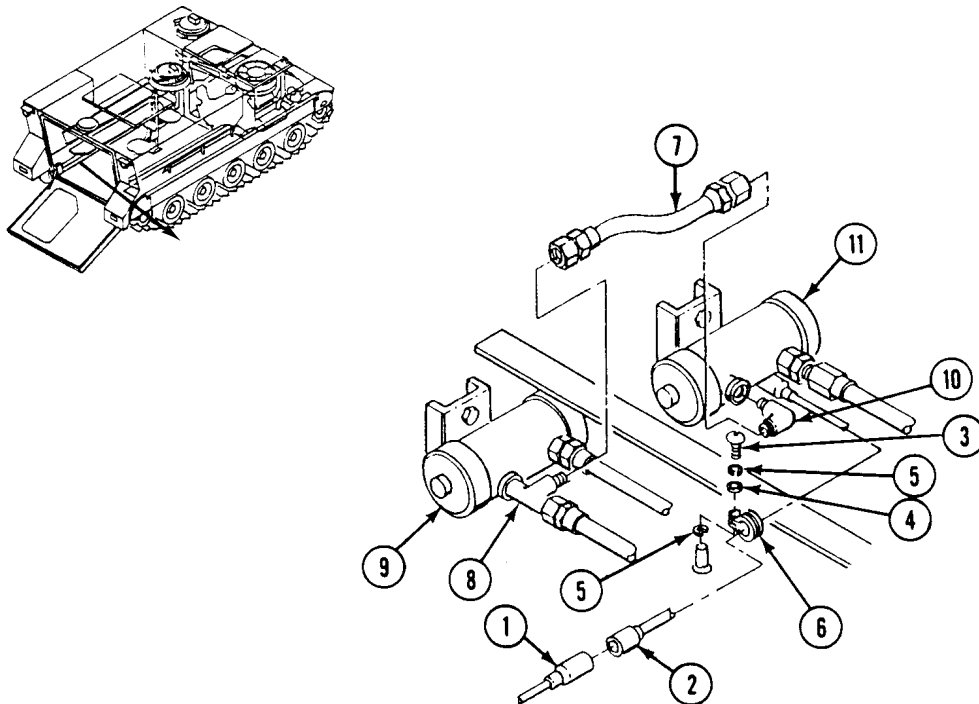
Unit Mechanic

Equipment Condition

- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- Ramp lowered (see your -10)
- Battery ground lead disconnected (WP 0294 00)
- Rear floor plate removed (WP 0436 00, WP 0438 00,  
or WP 0441 00)
- Heater fuel shutoff valve closed (see your -10)

**REMOVAL**

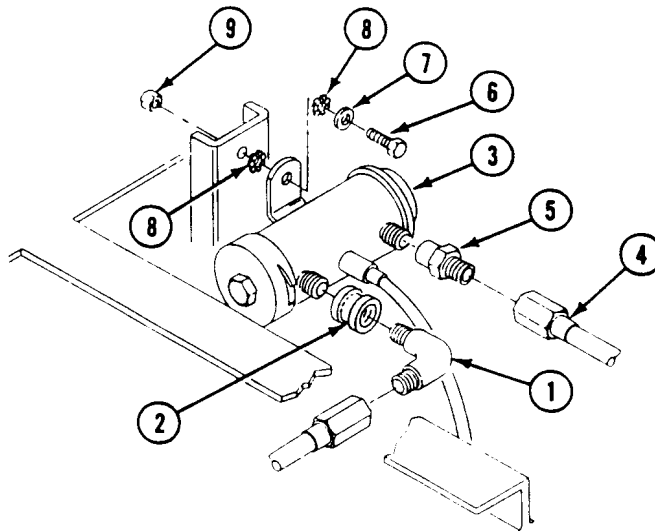
1. Disconnect circuit 402A lead (1) from fuel pump lead (2).
2. Remove screw (3), washer (4), two lockwashers (5), and clamp (6) from hull weldnut. Discard lockwashers.
3. Remove hose (7) from tee (8) on personnel heater fuel pump (9) and from elbow (10) on coolant heater fuel pump (11).



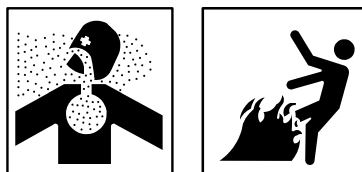
**REPLACE COOLANT HEATER FUEL PUMP (M113A2, M901A1, AND M1059 ONLY) — Continued**

0640 00

4. Remove elbow (1) from coupling (2).
5. Remove coupling (2) from fuel pump (3).
6. Disconnect hose (4) from adapter (5). Remove adapter from fuel pump (3).
7. Remove two screws (6), washers (7), four lockwashers (8), two locknuts (9), and fuel pump (3) from hull bracket. Discard lockwashers and locknuts.


**INSTALLATION**

1. Place fuel pump (3) on hull bracket. Secure with two new locknuts (9), four new lockwashers (8), two washers (7), and screws (6).

**WARNING**


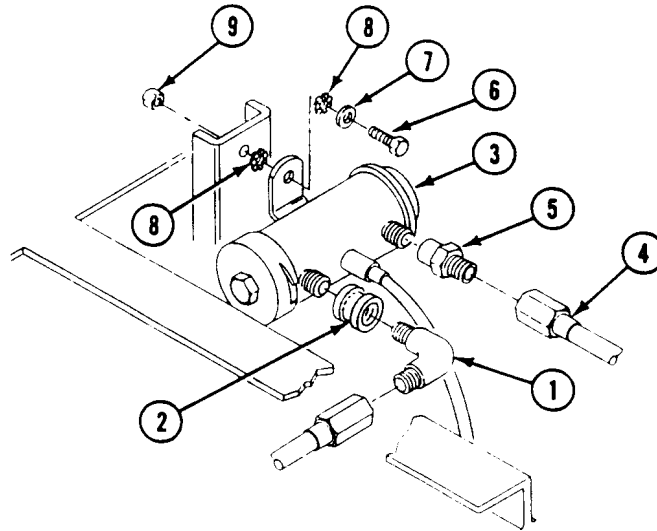
Adhesive, primer, sealant compounds, and isopropyl alcohol are toxic and flammable. These compounds are toxic to eyes, skin, and respiratory tract. Continued exposure can make you dizzy and irritate your eyes and throat.

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

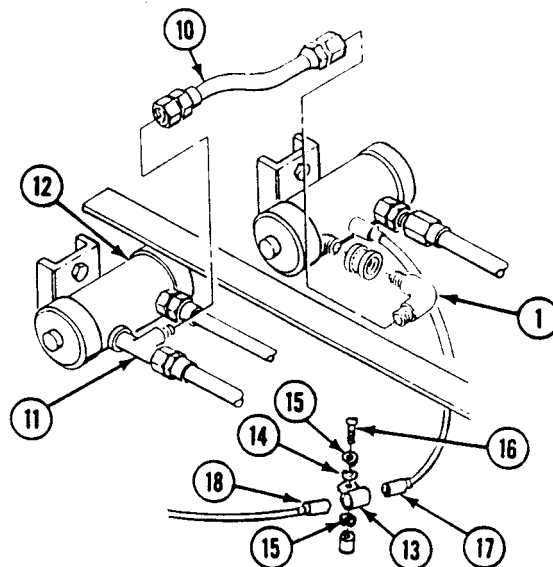
**REPLACE COOLANT HEATER FUEL PUMP (M113A2, M901A1, AND M1059 ONLY) — Continued**

0640 00

2. Apply light coat of sealing compound to all external tapered threads. Do not apply sealant beyond small end of tapered threads.
3. Install adapter (5) on fuel pump (3). Connect hose (4) to adapter.
4. Install coupling (2) on fuel pump (3).
5. Install elbow (1) on coupling (2).



6. Install hose (10) on elbow (1) and on tee (11) on personnel heater fuel pump (12).
7. Place clamp (13) on hull weldnut. Secure with washer (14), two new lockwashers (15), and screw (16).
8. Connect fuel pump lead (17) to circuit 402A lead (18).



---

**REPLACE COOLANT HEATER FUEL PUMP (M113A2, M901A1, AND  
M1059 ONLY) — Continued**

---

**0640 00**

**FOLLOW-THROUGH STEPS**

1. Open heater fuel shutoff valve (see your -10).
2. Connect battery ground lead (WP 0294 00).
3. Bleed fuel lines (WP 0599 00).
4. Start heater (see your -10). Check for fuel leaks. Turn heater off.
5. Install rear floor plate (WP 0436 00, WP 0438 00, or WP 0441 00).
6. Raise and lock ramp (see your -10).
7. Stop engine (see your -10).

**END OF TASK**

**REPLACE COOLANT HEATER FUEL PUMP (M577A2 AND M1068 ONLY)**

**0641 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0641 00-1).  
 Installation (page 0641 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

Sealing compound (WP 0782 00, Item 60)

Lockwasher (7)

Personnel Required

Unit Mechanic

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Ramp lowered (see your -10)

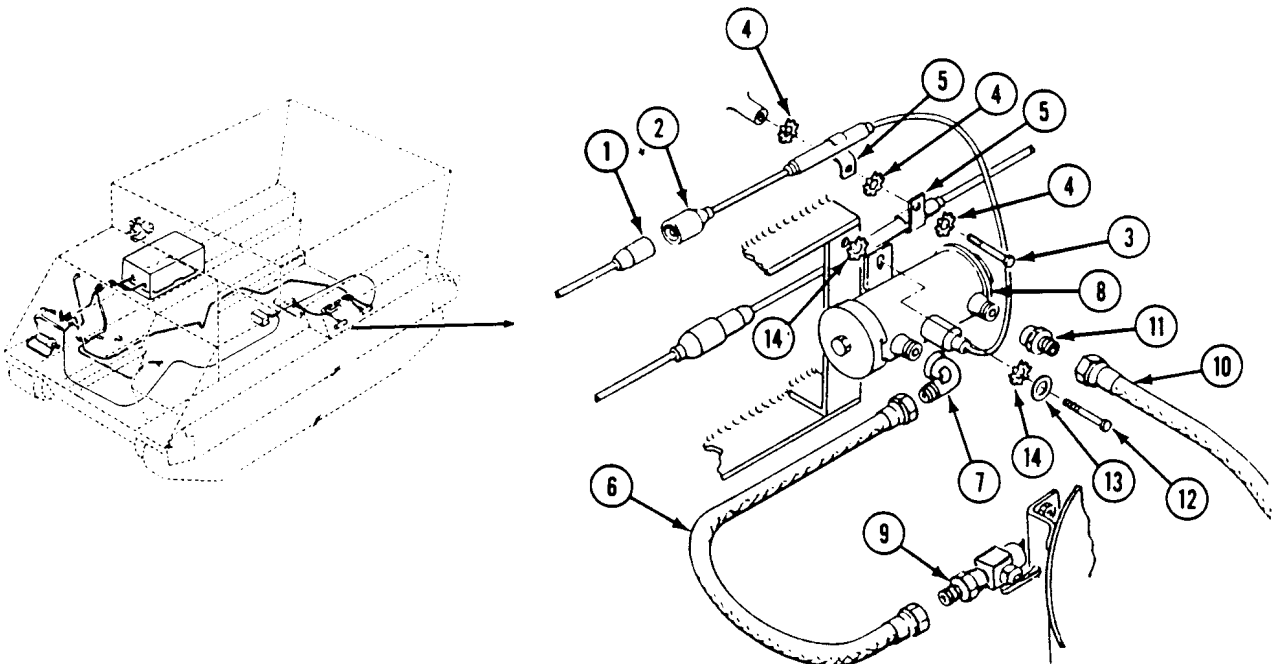
Battery ground lead disconnected (WP 0294 00).

Rear floor plate removed (WP 0436 00, WP 0438 00,  
 or WP 0441 00)

Coolant heater fuel shutoff valve closed (see your -10)

**REMOVAL**

1. Disconnect circuit 402C lead (1) from coolant heater fuel pump lead (2).
2. Remove screw (3), three lockwashers (4), and two clamps (5) from bulkhead weldnut. Discard lockwashers.
3. Remove hose (6) from elbow (7) on coolant heater fuel pump (9) and from adapter (9).
4. Remove elbow (7) from coolant heater fuel pump (8).
5. Disconnect hose (10) from adapter (11). Remove adapter from coolant heater fuel pump (8).
6. Remove two screws (12), washers (13), four lockwashers (14), and coolant heater fuel pump (8) from hull bracket. Discard lockwashers.

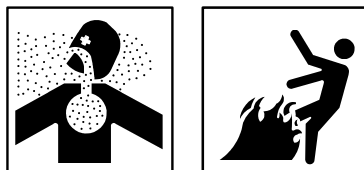




**INSTALLATION**

1. Place coolant heater fuel pump (1) on hull bracket. Secure with two screws (2), washers (3), and four new lockwashers (4).

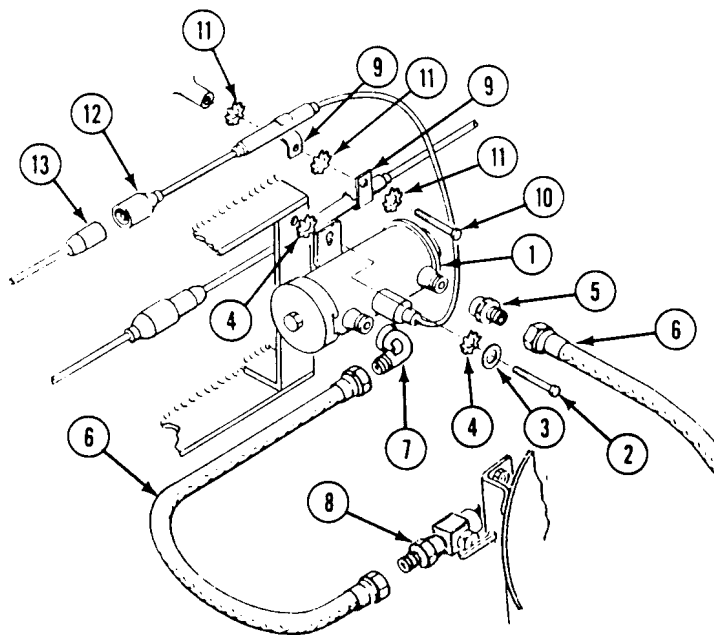
**WARNING**



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

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

2. Apply light coat of sealing compound to all external tapered threads. Do not apply sealant beyond small end of tapered threads.
3. Install adapter (5) on coolant heater fuel pump (1). Connect hose (6) to adapter.
4. Install elbow (7) on coolant heater fuel pump (1).
5. Install hose (6) on elbow (7) and on adapter (8).
6. Place two clamps (9) on bulkhead weldnut. Secure with screw (10) and three new lockwashers (11).
7. Connect coolant heater fuel pump lead (12) to circuit 402C lead (13).



**FOLLOW-THROUGH STEPS**

1. Open coolant heater fuel shutoff valve (see your -10).
2. Connect battery ground lead (WP 0294 00).
3. Bleed fuel lines (WP 0599 00).
4. Start heater (see your -10). Check for fuel leaks. Turn heater off.
5. Install rear floor plate (WP 0436 00, WP 0438 00, or WP 0441 00).
6. Raise and lock ramp (see your -10).
7. Stop engine (see your -10).

**END OF TASK**

**REPLACE COOLANT HEATER FUEL PUMP TO BULKHEAD CONNECTION HOSE (M113A2, M1059, AND M901A1 ONLY)**

**0642 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0642 00-1).
- Installation (page 0642 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Personnel Required

Unit Mechanic

Equipment Condition

- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- Ramp lowered (see your -10)
- Battery ground lead disconnected (WP 0294 00)
- Personnel heater duct removed (WP 0617 00)
- Floor plates removed (WP 0436 00, WP 0438 00, or WP 0441 00)
- Heater fuel shutoff valve closed (see your -10)

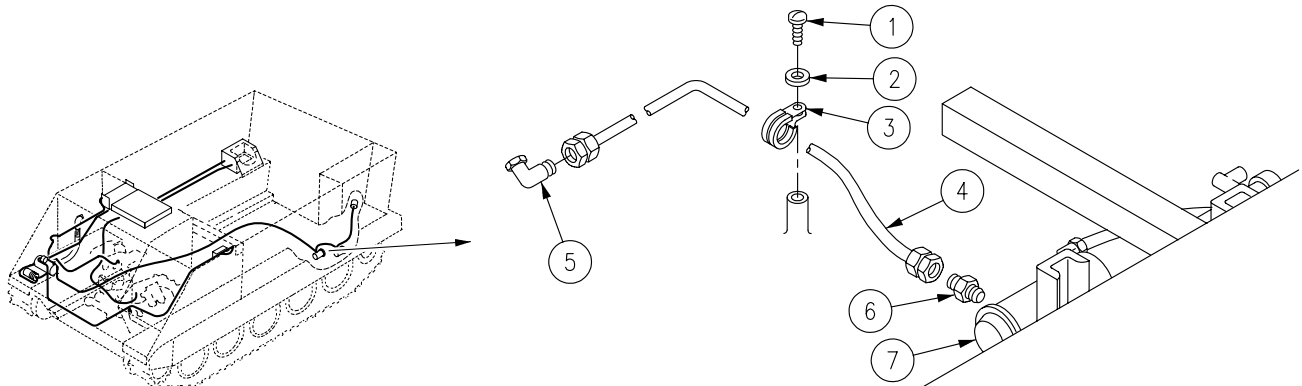
**REMOVAL**

**WARNING**



**Diesel fuel can catch fire and seriously injure or kill soldiers and damage or destroy vehicle. Wipe up fuel spills immediately. Do not smoke near fuel or when working on the fuel system.**

1. Remove seven screws (1), washers (2), and clamps (3) from hull weldnuts.
2. Disconnect hose (4) from elbow (5) and adapter (6) on fuel pump (7).
3. Remove clamps (3) from hose (4).
4. Remove hose (4) from hull openings.
5. Remove adapter (6) from fuel pump (7).



**REPLACE COOLANT HEATER FUEL PUMP TO BULKHEAD CONNECTION HOSE  
(M113A2, M1059, AND M901A1 ONLY) — Continued**

0642 00

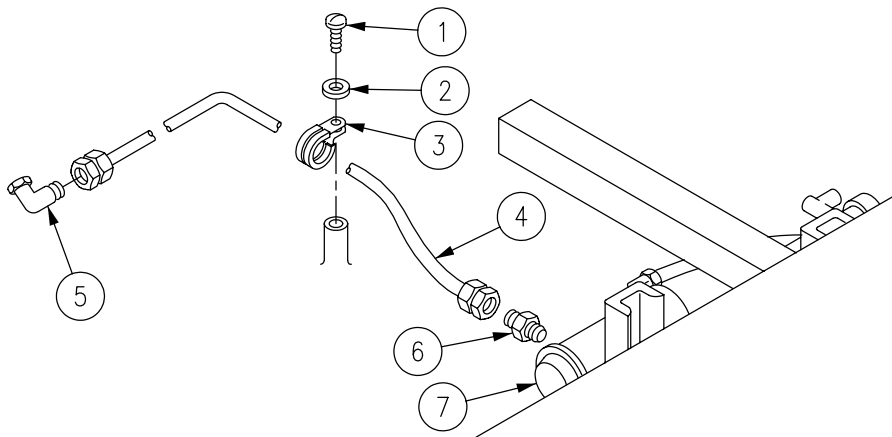
**INSTALLATION**

1. Install adapter (6) on fuel pump (7).

**NOTE**

**Replacing a flareless fuel hose or tube assembly may also require new mating fittings such as a tee, elbow, or adapter.**

2. Route hose (4) through hull openings.
3. Install seven clamps (3) on hose (4).
4. Connect hose (4) to adapter (6) on fuel pump (7) and elbow (5).
5. Align clamps (3) with hull weldnuts. Secure with seven screws (1) and washers (2).

**FOLLOW-THROUGH STEPS**

1. Open heater fuel shutoff valve (see your -10).
2. Start coolant heater (see your -10). Check for fuel leaks. Turn heater off.
3. Bleed fuel lines (WP 0599 00).
4. Install floor plates (WP 0436 00, WP 0438 00, or WP 0441 00).
5. Install personnel heater duct (WP 0617 00).
6. Raise and lock ramp (see your -10).
7. Stop engine (see your -10).

**END OF TASK**

**REPLACE COOLANT HEATER FUEL PUMP TO BULKHEAD CONNECTION HOSE (M577A2 AND M1068 ONLY)**

**0643 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0643 00-1).
- Installation (page 0643 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- Personnel heater duct removed (WP 0617 00)
- Floor plates removed (WP 0436 00)
- Coolant heater fuel shutoff valve closed (see your -10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Personnel Required

Unit Mechanic

**REMOVAL**

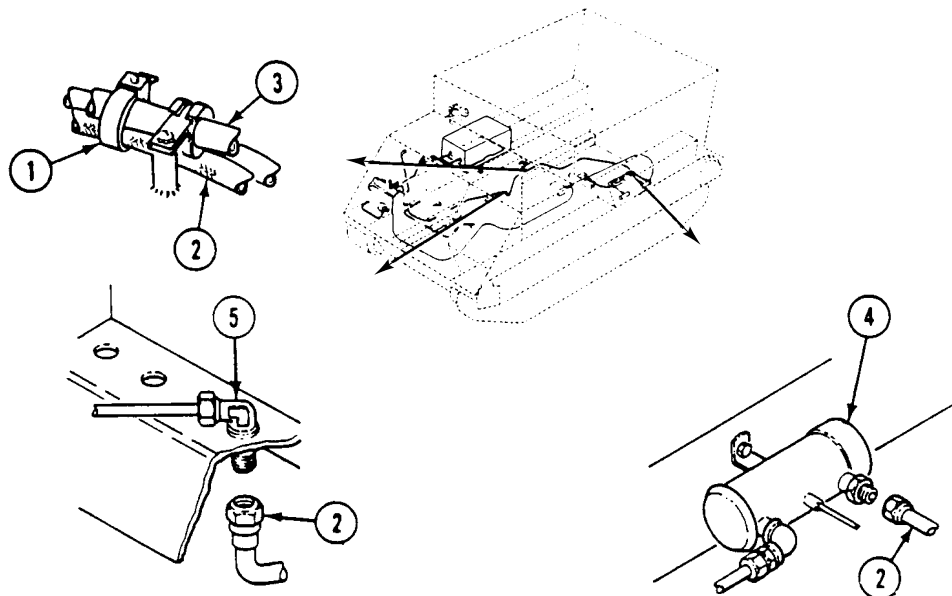
1. Remove ten straps (1) holding coolant heater hose (2) to personnel heater hose (3).

**WARNING**



**Diesel fuel can catch fire and seriously injure or kill soldiers and damage or destroy vehicle. Wipe up fuel spills immediately. Do not smoke near fuel or when working on the fuel system.**

2. Remove hose (2) from coolant heater fuel pump (4) and from elbow (5).



---

**REPLACE COOLANT HEATER FUEL PUMP TO BULKHEAD CONNECTION  
HOSE (M577A2 AND M1068 ONLY) — Continued**

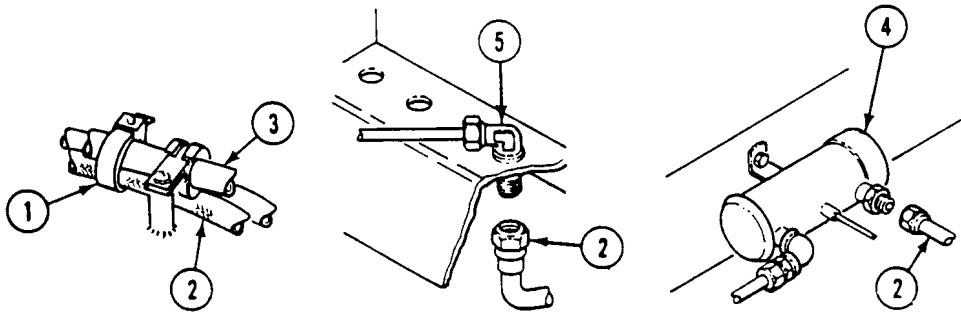

---

0643 00

**INSTALLATION****NOTE**

Replacing a flareless fuel hose or tube assembly may also require new mating fittings such as a tee, elbow, or adapter.

1. Install hose (2) on elbow (5) and on coolant heater fuel pump (4).
2. Secure coolant heater hose (2) to personnel heater hose (3) with ten straps (1).

**FOLLOW-THROUGH STEPS**

1. Open coolant heater fuel shutoff valve (see your -10).
2. Start coolant heater (see your -10). Check for fuel leaks. Turn heater off.
3. Bleed fuel lines (WP 0599 00).
4. Install floor plates (WP 0436 00).
5. Install personnel heater duct (WP 0617 00).
6. Raise and lock ramp (see your -10).
7. Stop engine (see your -10).

**END OF TASK**

---

**REPLACE BULKHEAD CONNECTION TO COOLANT HEATER  
FUEL INLET HOSE TUBE**

---

**0644 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0644 00-2).  
Installation (page 0644 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Personnel Required

Unit Mechanic

Equipment Condition

Engine stopped (see your -10)  
Carrier blocked (see your -10)  
Ramp lowered (see your -10)  
Power plant rear access panel removed (WP 0431 00,  
WP 0432 00, or WP 0433 00)  
Personnel heater duct removed (WP 0617 00)  
Front floor plate removed (WP 0437 00,  
WP 0438 00, WP 0440 00, or WP 0441 00)  
Trim vane lowered and power plant front access door  
open (see your -10)  
Heater fuel shutoff valve closed (see your -10)

---

---

**REPLACE BULKHEAD CONNECTION TO COOLANT HEATER FUEL  
INLET HOSE TUBE — Continued**


---

0644 00

**REMOVAL**


---

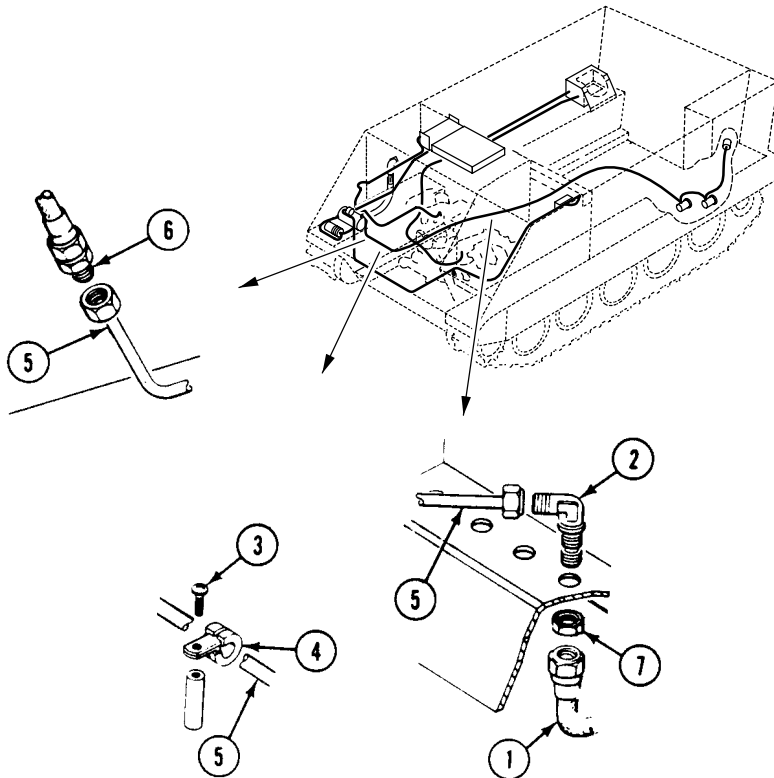
**WARNING**


---



**Diesel fuel can catch fire and seriously injure or kill soldiers and damage or destroy vehicle.  
Wipe up fuel spills immediately. Do not smoke near fuel or when working on the fuel system.**

1. Disconnect fuel supply hose (1) from elbow (2).
2. Remove three screws (3) and clamps (4) from three hull weldnuts.
3. Remove tube (5) from nipple (6) and elbow (2). Remove three clamps (4) from tube.
4. Remove jamnut (7) and elbow (2) from hull.





---

**REPLACE BULKHEAD CONNECTION TO COOLANT HEATER FUEL  
INLET HOSE TUBE — Continued**


---

0644 00

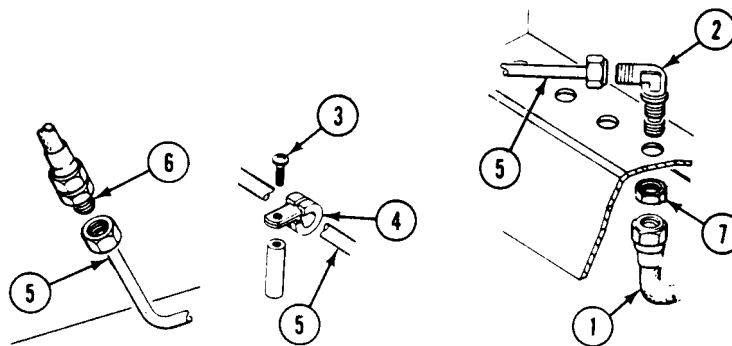
**INSTALLATION**

1. Install elbow (2) in hull. Secure with jamnut (7).

**NOTE**

**Replacing a flareless fuel hose or tube assembly may also require new mating fittings such as a tee, elbow, or adapter.**

2. Place three clamps (4) on tube (5). Install tube on elbow (2) and nipple (6).
3. Align three clamps (4) with three hull weldnuts. Secure with three screws (3).
4. Connect hose (1) to elbow (2).

**FOLLOW-THROUGH STEPS**

1. Open coolant heater fuel shutoff valve (see your -10).
2. Bleed fuel lines (WP 0599 00).
3. Start coolant heater (see your -10). Check for fuel leaks. Turn heater off.
4. Close power plant front access door and raise trim vane (see your -10).
5. Install front floor plates (WP 0437 00, WP 0438 00, WP 0440 00, or WP 0441 00).
6. Install personnel heater duct (WP 0617 00).
7. Install power plant rear access panel (WP 0431 00, WP 0432 00, or WP 0433 00).
8. Raise and lock ramp (see your -10).
9. Stop engine (see your -10).

**END OF TASK**

---

**REPLACE COOLANT HEATER FUEL INLET HOSE**

---

**0645 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0645 00-2).  
 Installation (page 0645 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

Sealing compound (WP 0782 00, Item 60)

Personnel Required

Unit Mechanic

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Ramp lowered (see your -10)

Battery ground lead disconnected (WP 0294 00)

Trim vane lowered and power plant front access open  
 (see your -10)

Heater fuel shutoff valve closed (see your -10)

---

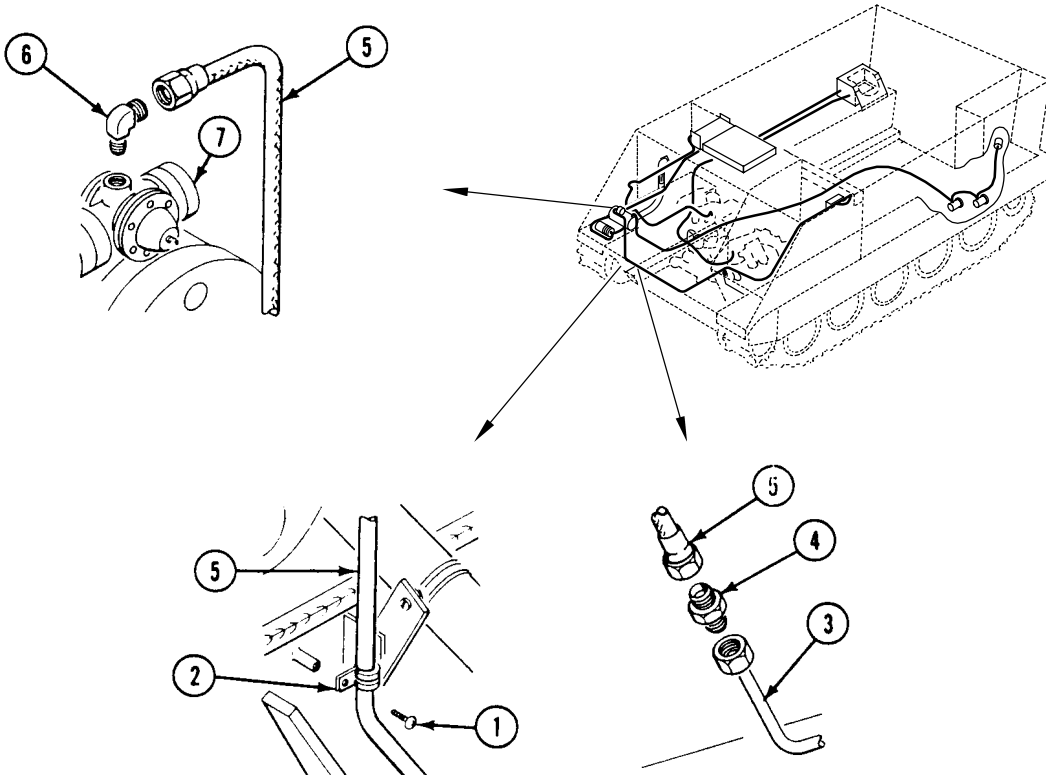
REMOVAL

**WARNING**

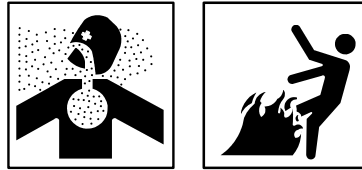


**Diesel fuel can catch fire and seriously injure or kill soldiers and damage or destroy vehicle. Wipe up fuel spills immediately. Do not smoke near fuel or when working on the fuel system.**

1. Remove screw (1) and clamp (2) from bulkhead weldnut.
2. Remove tube (3) from nipple (4).
3. Remove nipple (4) from hose (5).
4. Remove hose (5) from elbow (6). Remove clamp (2) from hose.
5. Remove elbow (6) from engine coolant heater (7).



## INSTALLATION

**WARNING**

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

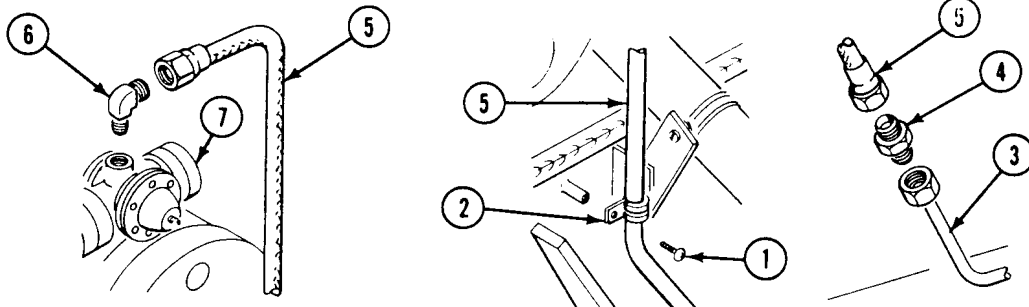
Always use in well ventilated areas, away from heat, sparks, and flames. Do not breathe fumes. Do not allow into contact with skin and eyes. Use goggles or face shield and protective gloves.

1. Apply a light coat of sealing compound to threads of elbow (6).
2. Install elbow (6) in engine coolant heater (7).

**NOTE**

Replacing a flareless fuel hose or tube assembly may also require new mating fittings such as a tee, elbow, or adapter.

3. Install hose (5) on elbow (6). Place clamp (2) on hose (5).
4. Install nipple (4) in hose (5).
5. Install tube (3) on nipple (4).
6. Align clamp (2) with bulkhead weldnut. Secure with screw (1).

**FOLLOW-THROUGH STEPS**

1. Open coolant heater fuel shutoff valve (see your -10).
2. Bleed fuel lines (WP 0599 00).
3. Start coolant heater (see your -10). Check for fuel leaks. Turn heater off.
4. Close power plant front access door and raise trim vane (see your -10).
5. Raise and lock ramp (see your -10).
6. Stop engine (see your -10).

**END OF TASK**

**REPLACE COOLANT HOSES AND FITTINGS**

**0646 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0646 00-1).  
 Installation (page 0646 00-7).

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)  
 Carrier blocked (see your -10)  
 Trim vane lowered (see your -10)  
 Power plant front access door open (see your -10)  
 Power plant rear access panel removed (WP 0431 00,  
 WP 0432 00, or WP 0433 00)  
 Carrier cooling system drained (WP 0193 00)  
 Coolant heater system drained (WP 0639 00)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

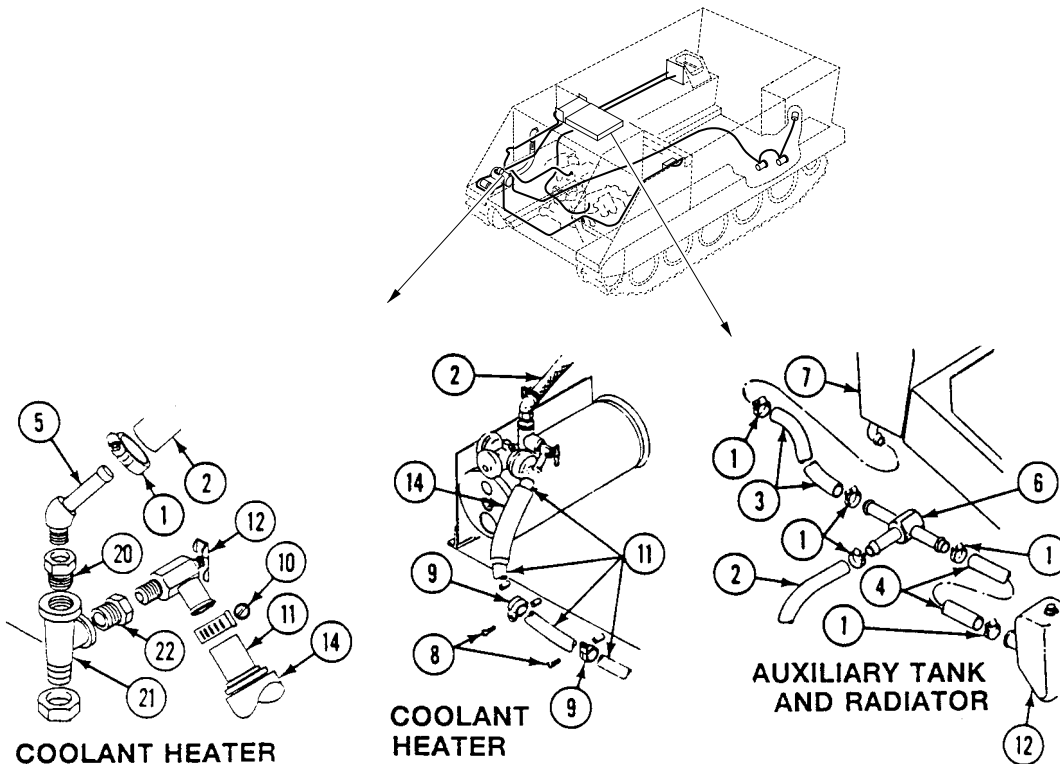
Insulation tape (WP 0782 00, Item 35)  
 Sealing compound (WP 0782 00, Item 60)  
 Gasket  
 Grommet (2)

Personnel Required

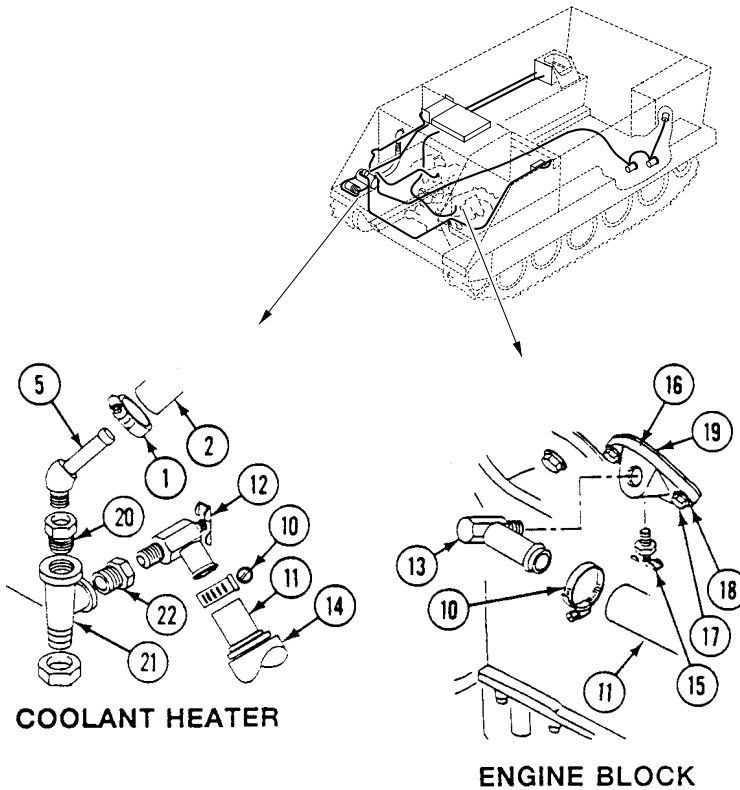
Unit Mechanic

**REMOVAL**

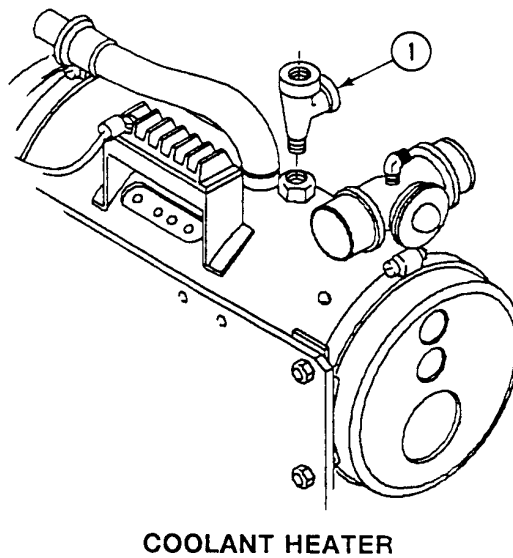
1. Loosen six clamps (1) on hoses (2), (3), and (4). Remove hose (2) from adapter (5) and tee (6). Remove hose (3) from tee (6) and radiator auxiliary tank (7). Remove hose (4) from tee (6) and thermostat housing on engine.
2. Remove six clamps (1) from hoses (2), (3), and (4).
3. Remove two screws (8) and clamps (9) from two hull weldnuts.



4. Loosen two clamps (10) on hose (11). Remove hose (11) from heater shutoff valve (12) and from elbow (13) on engine block. Remove clamps (9) and (10) and tubing (14) from hose (11).
5. Remove elbow (13) and draincock (15) from mount (16) on engine block.
6. Remove two screws (17), washers (18), mount (16), and gasket from engine block. Discard gasket.
7. Remove adapter (5) from bushing (20) on heater. Remove bushing from tee (21).
8. Remove shutoff valve (12) from bushing (22). Remove bushing from tee (21).



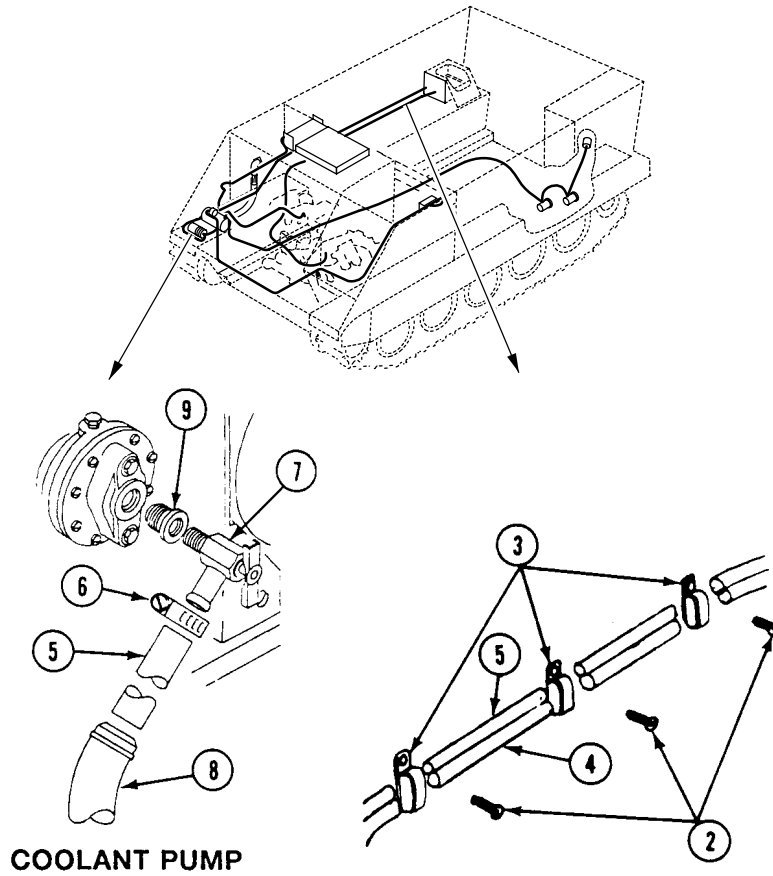
9. Remove tee (1) from coolant heater.



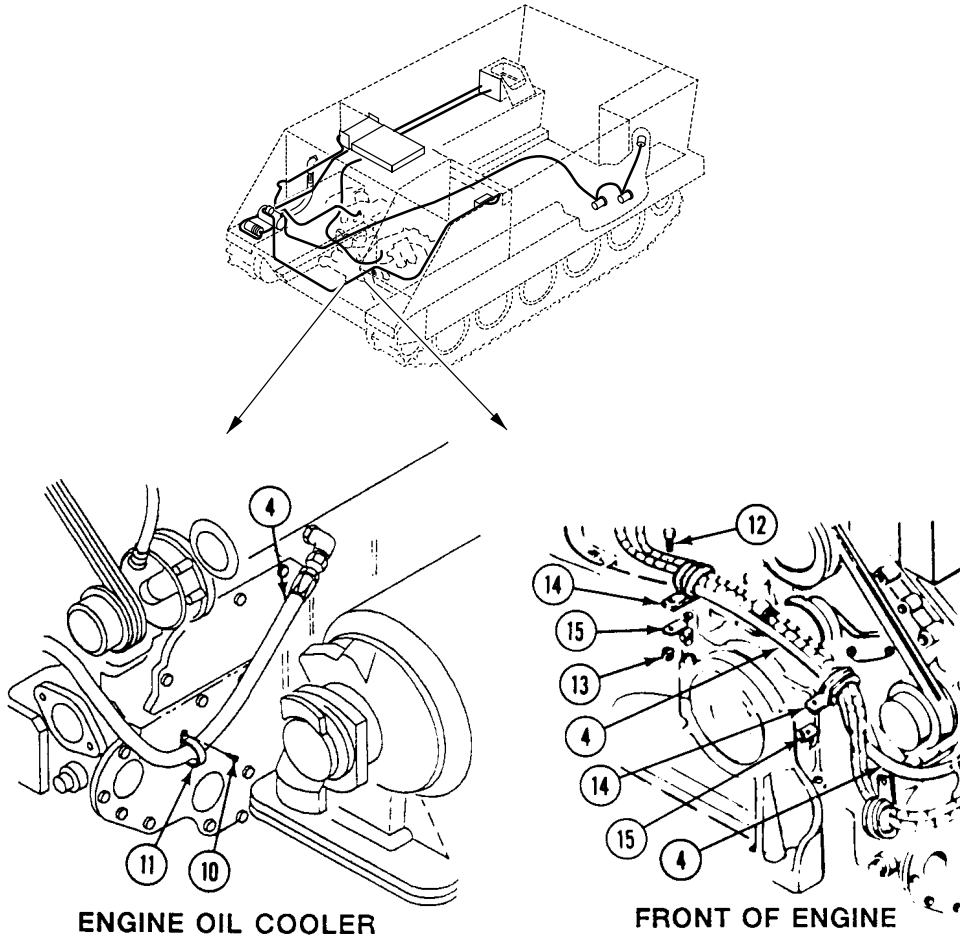
**REPLACE COOLANT HOSES AND FITTINGS — Continued**

**0646 00**

10. Remove three screws (2) and clamps (3) from sponson. Remove clamps from two hoses (4) and (5).
11. Loosen clamp (6) on hose (5). Remove hose from shutoff valve (7) on coolant pump. Remove clamp and tubing (8) from hose (5).
12. Remove shutoff valve (7) from bushing (9). Remove bushing (9) from coolant pump.



13. Remove screw (10) and clamp (11) from oil cooler housing. Remove clamp from hose (4).
14. Remove two screws (12), nuts (13), and clamps (14) from two engine brackets (15). Remove clamps from hose (4).

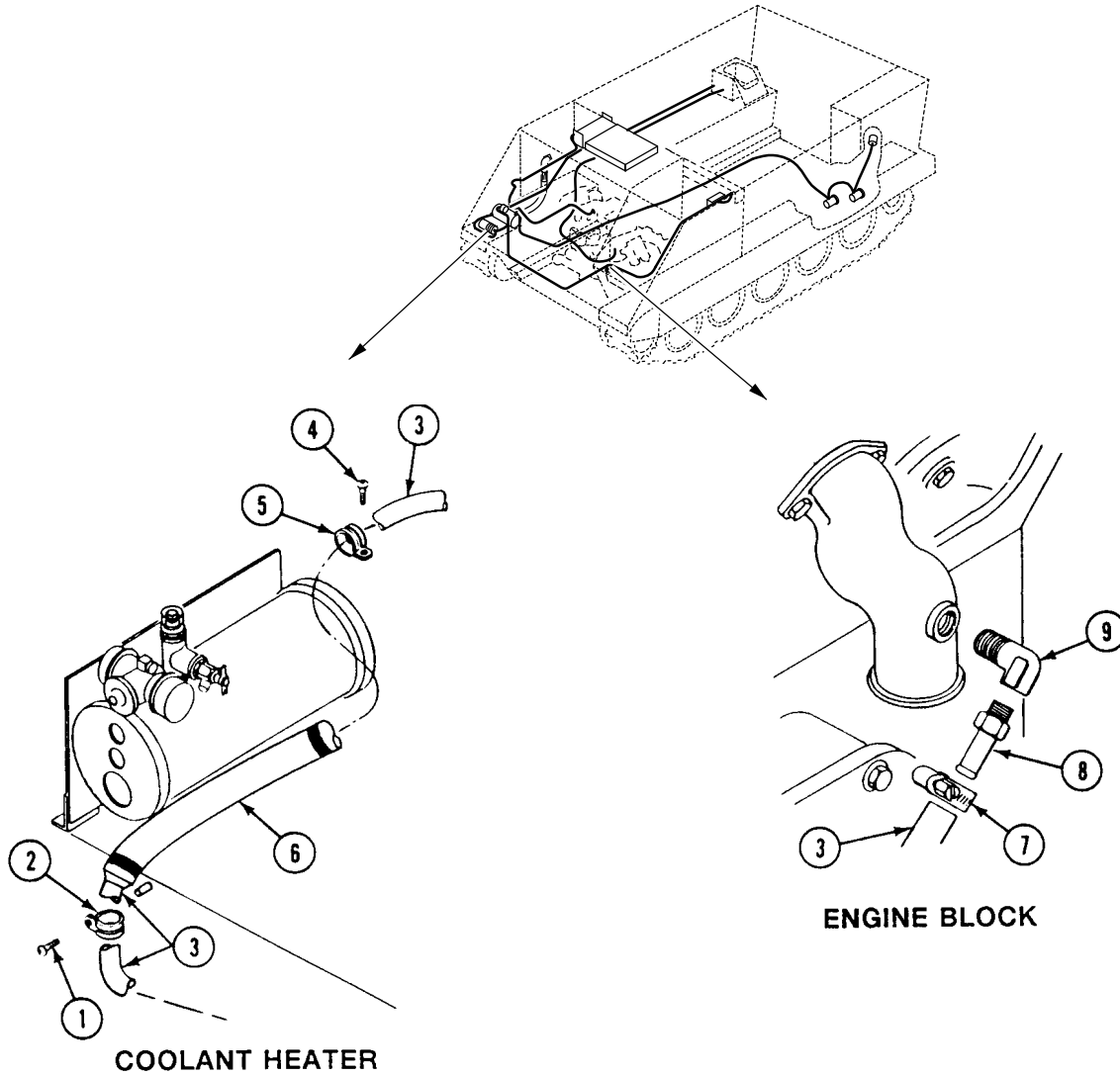




**REPLACE COOLANT HOSES AND FITTINGS — Continued**

**0646 00**

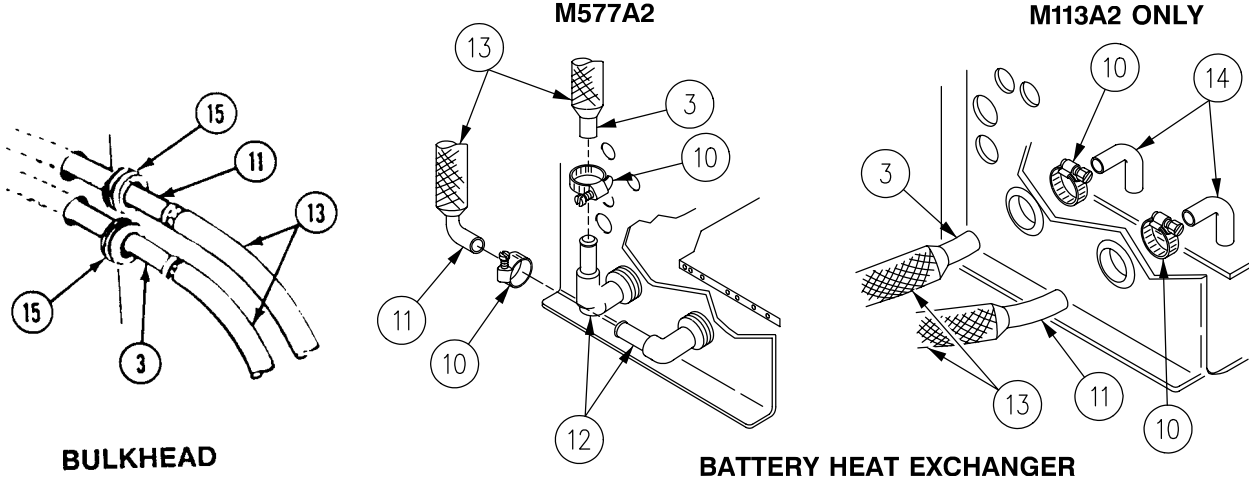
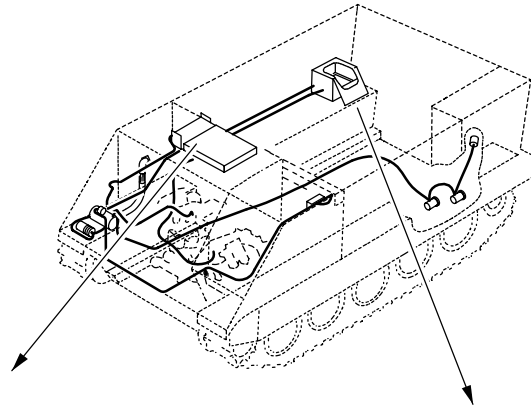
15. Remove screw (1) and clamp (2) from bulkhead weldnut. Remove clamp from hose (3).
16. Remove screw (4) and clamp (5) from sponson. Remove clamp from tube (6).
17. Loosen clamp (7) on hose (3). Remove hose from adapter (8). Remove clamp and tubing (6) from hose.
18. Remove adapter (8) from elbow (9). Remove elbow (9) from engine coolant tube.



**NOTE**

On M113A2 carriers, remove hoses from two tubes (14) instead of elbows (12).

19. Loosen two clamps (10). Remove two hoses (3) and (11) from two elbows (12). Remove clamps and tubing (13) from hoses.
20. Remove two hoses (3) and (11) and two grommets (15) from power plant compartment bulkhead. Discard grommets.



INSTALLATION

**NOTE**

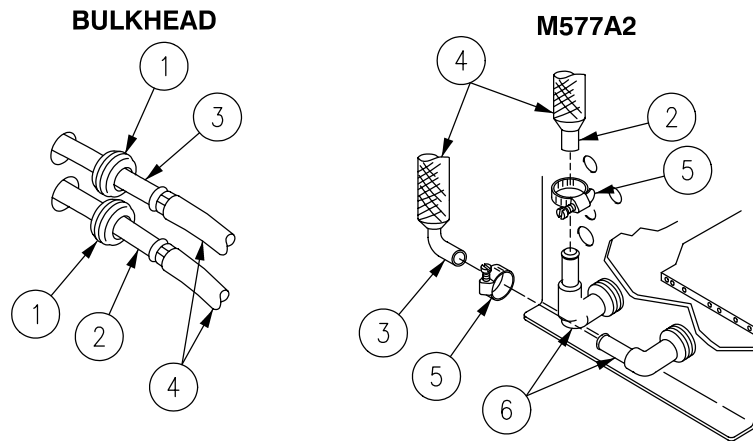
The longer hose (2) should be installed in the upper grommet.

1. Install two new grommets (1) and two hoses (2) and (3) in power plant compartment bulkhead.

**NOTE**

Coolant heater kit contains four pieces of insulation tubing. A short piece of tubing is installed between power plant compartment bulkhead and battery box.

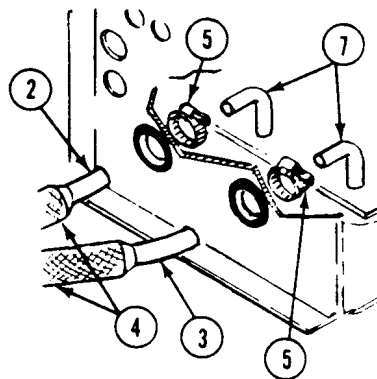
2. Slide tubing (4) and clamp (5) onto each hose (2) and (3). Install hoses on two elbows (6). Secure with clamps. Wrap ends of insulated tubing with overlapping turns of insulated tape to prevent unravelling.



**NOTE**

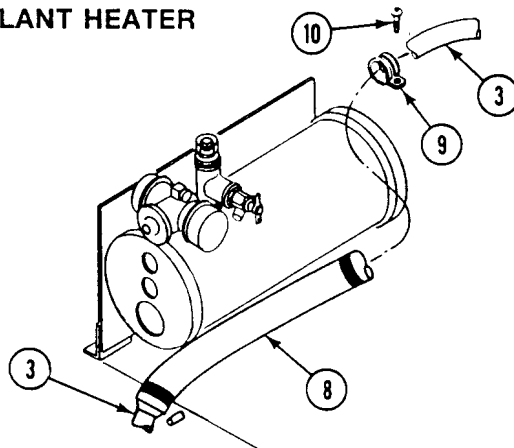
On M113A2 carriers, route hoses (2) and (3) through brackets on sponson and install on two tubes (7). Secure with clamps (5).

**M113A2 ONLY**



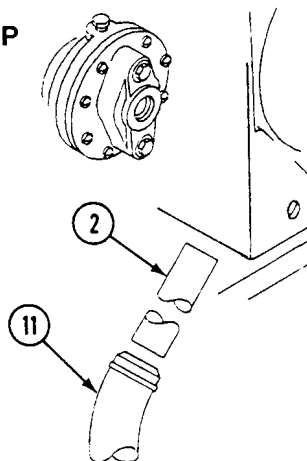
3. Install tubing (8) on hose (3). Place clamp (9) on tube (8). Align clamp with sponson hole. Secure with screw (10). Wrap ends of insulated tubing with overlapping turns of insulated tape to prevent unravelling.

**COOLANT HEATER**

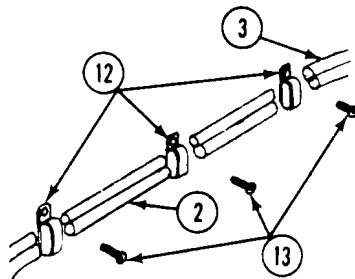


4. Install tubing (11) on hose (2). Wrap ends of insulated tubing with overlapping turns of insulation tape to prevent unravelling.

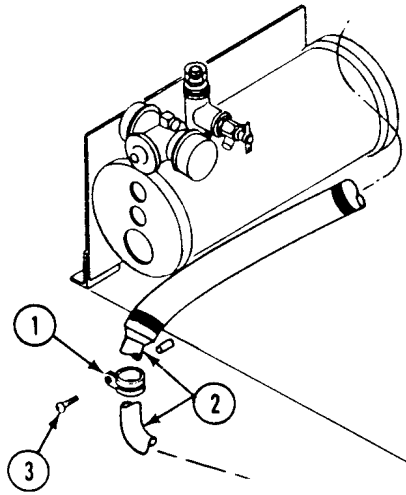
**COOLANT PUMP**



5. Place three clamps (12) on two hoses (2) and (3). Align clamps with bulkhead holes. Secure with three screws (13).

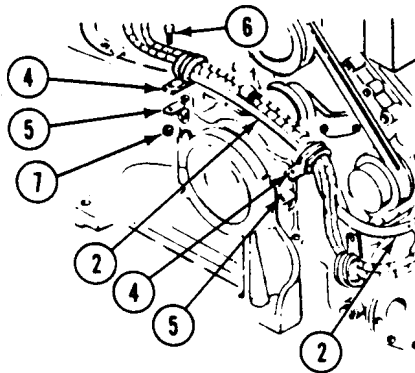


6. Place clamp (1) on hose (2). Align clamps with bulkhead weldnut. Secure with screw (3).



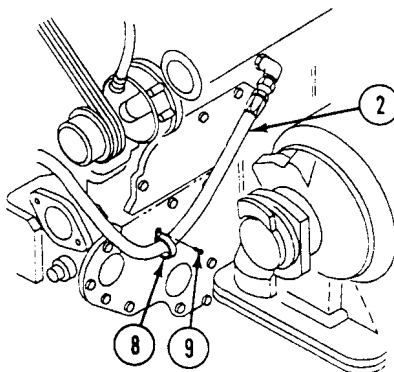
COOLANT HEATER

7. Place two clamps (4) on hose (2). Align clamps with two engine brackets (5). Secure with two screws (6) and nuts (7).

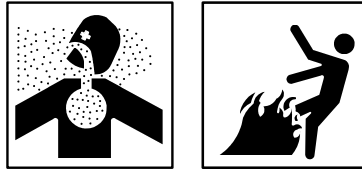


FRONT OF ENGINE

8. Place clamp (8) on hose (2). Align clamp with oil cooler housing. Secure with screw (9).



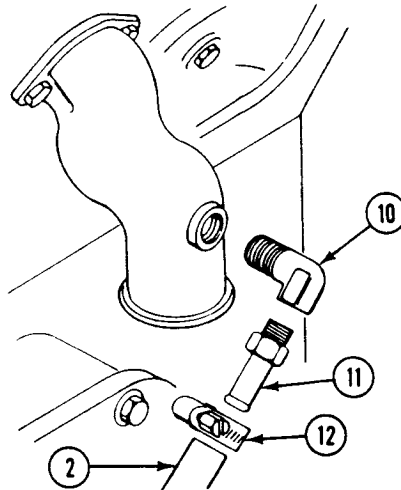
ENGINE OIL COOLER

**WARNING**

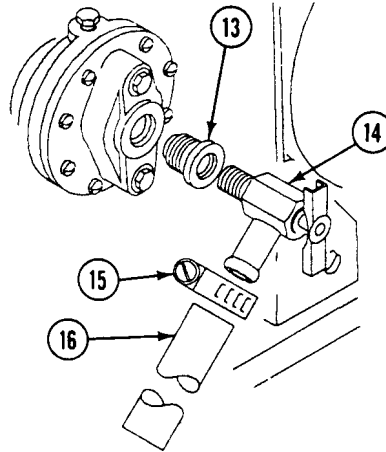
**Adhesive, primer, sealant compounds, and isopropyl alcohol are toxic and flammable. These compounds are toxic to eyes, skin, and respiratory tract. Continued exposure can make you dizzy and irritate your eyes and throat.**

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

9. Apply a light coat of sealing compound to all external tapered threads.
10. Install elbow (10) in engine coolant tube. Install adapter (11) in elbow (10).
11. Place clamp (12) on hose (2). Install hose on adapter (11). Secure with clamp.

**ENGINE BLOCK**

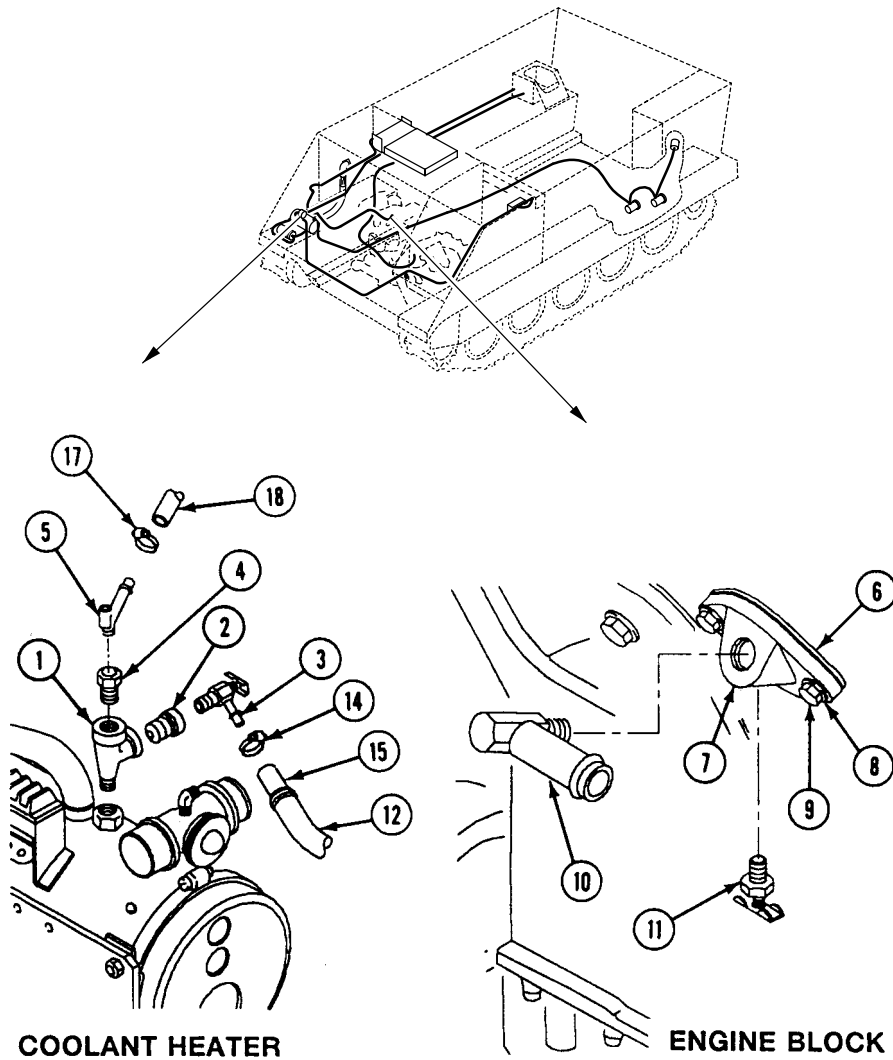
12. Install bushing (13) in coolant pump. Install shutoff valve (14) in bushing.
13. Place clamp (15) on hose (16). Install hose on shutoff valve (14). Secure with clamp.

**COOLANT PUMP**

REPLACE COOLANT HOSES AND FITTINGS — Continued

0646 00

14. Install tee (1) in coolant heater.
15. Install bushing (2) in tee (1). Install shutoff valve in (3) in bushing.
16. Install bushing (4) in tee (1). Install adapter (5) in bushing.
17. Install new gasket (6) and mount (7) on engine block. Secure with two washers (8) and screws (9).
18. Install elbow (10) and draincock (11) in mount (7).

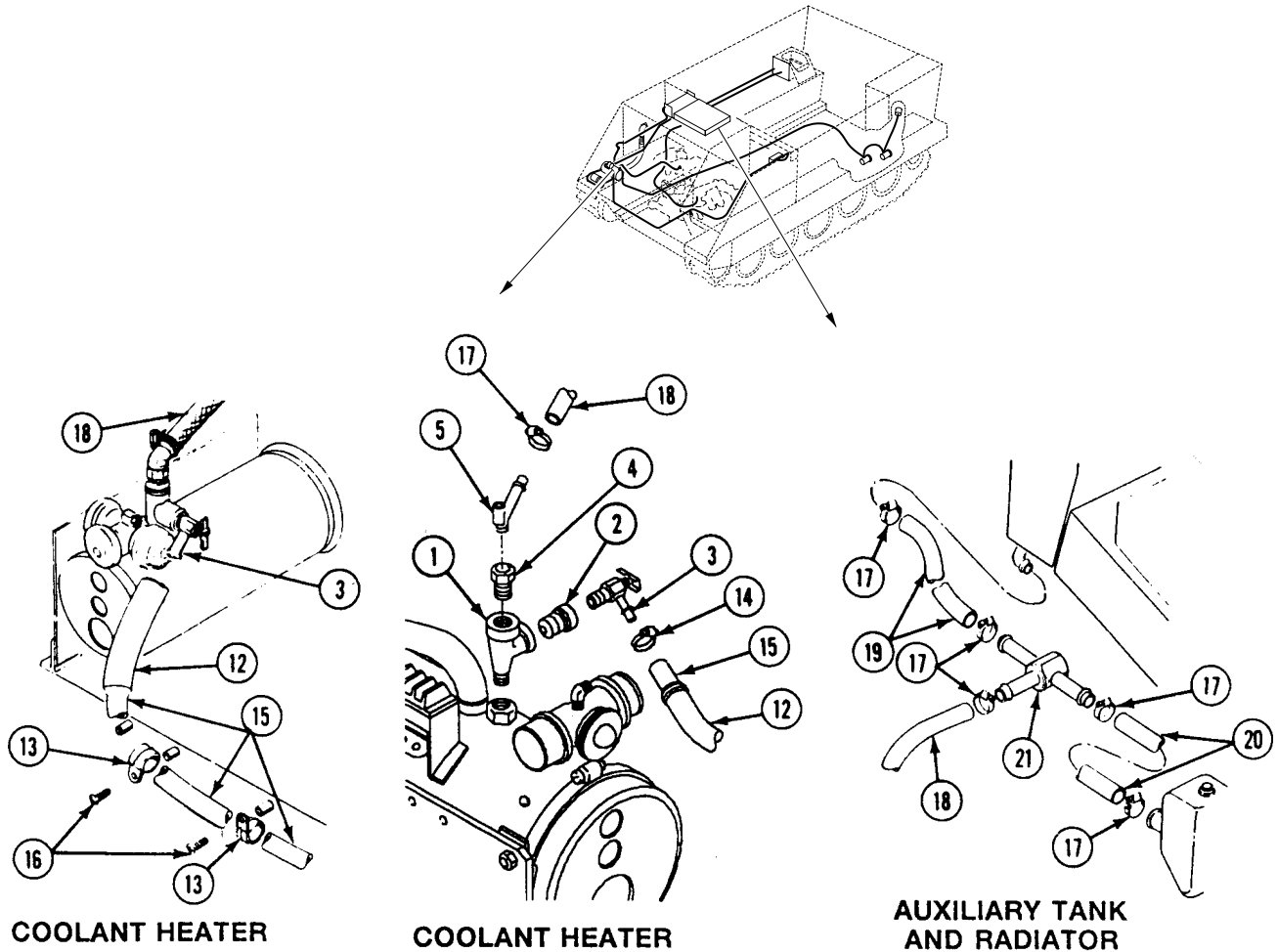




**REPLACE COOLANT HOSES AND FITTINGS — Continued**

**0646 00**

19. Place tubing (12), two clamps (13), and two clamps (14) on hoses (15).
20. Install hose (15) on shutoff valve (3) and elbow (10). Secure with two clamps (14).
21. Align two clamps (13) with hull weldnuts. Secure with two screws (16).
22. Place six clamps (17) on hoses (18), (19), and (20). Install tee (21) in hoses. Secure with three clamps (17).
23. Install hose (18) on adapter (5). Install hose (19) on radiator auxiliary tank. Install hose (20) on thermostat housing. Secure with remaining three clamps (17).



**FOLLOW-THROUGH STEPS**

1. Fill carrier cooling system (WP 0194 00).
2. Fill coolant heater system (WP 0639 00).
3. Start coolant heater (see your -10). Check to make sure heater is installed right. Check for leaks. Turn heater off.
4. Close power plant front access door and raise trim vane (see your -10).
5. Install power plant rear access panel (WP 0431 00, WP 0432 00, or WP 0433 00).
6. Raise and lock ramp (see your -10).
7. Stop engine (see your -10).

**END OF TASK**

---

**REPLACE COOLANT HEATER EXHAUST ELBOW AND PIPES**

---

**0647 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0647 00-2).  
Installation (page 0647 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Ramp lowered (see your -10)

Trim vane lowered (see your -10)

Power plant front access door open (see your -10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

Gasket

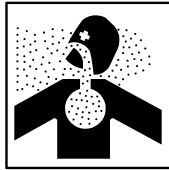
Personnel Required

Unit Mechanic

---

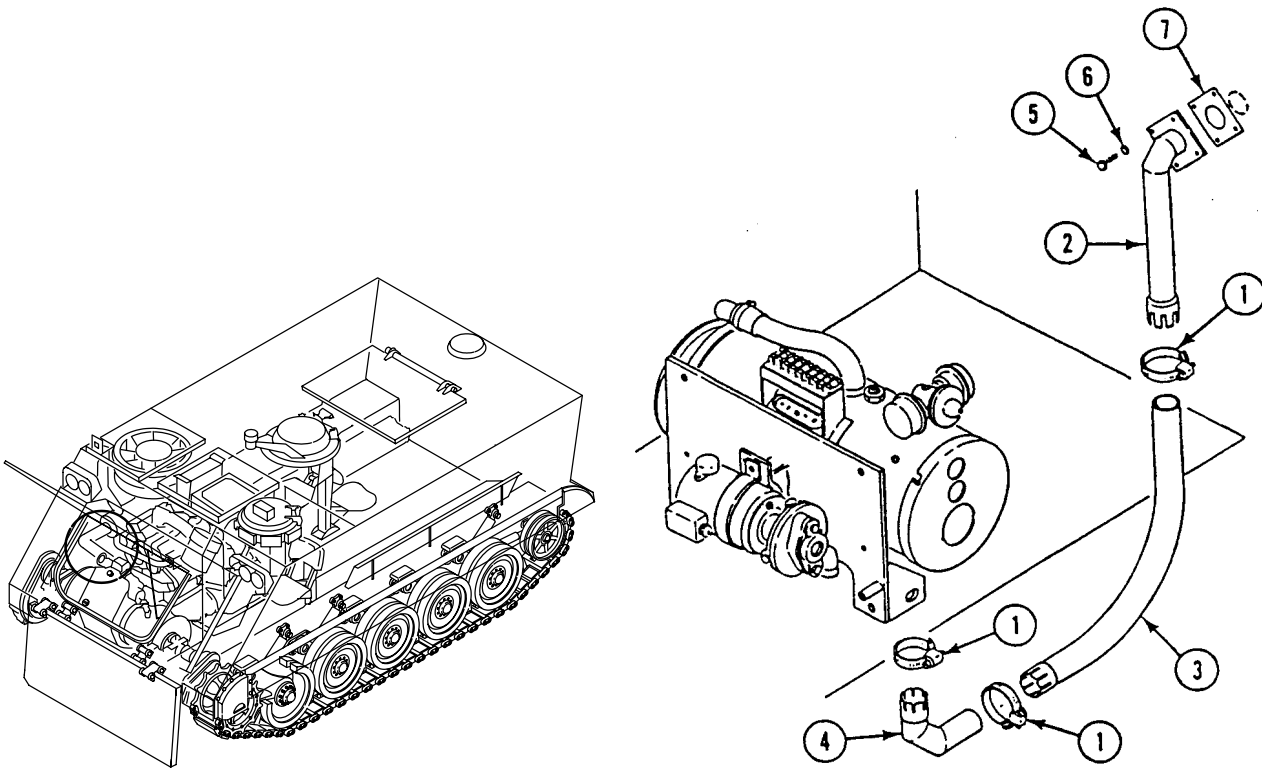
**REMOVAL**

1. Loosen three clamps (1) on upper exhaust pipe (2), on lower exhaust pipe (3), and on exhaust elbow (4).

**WARNING**

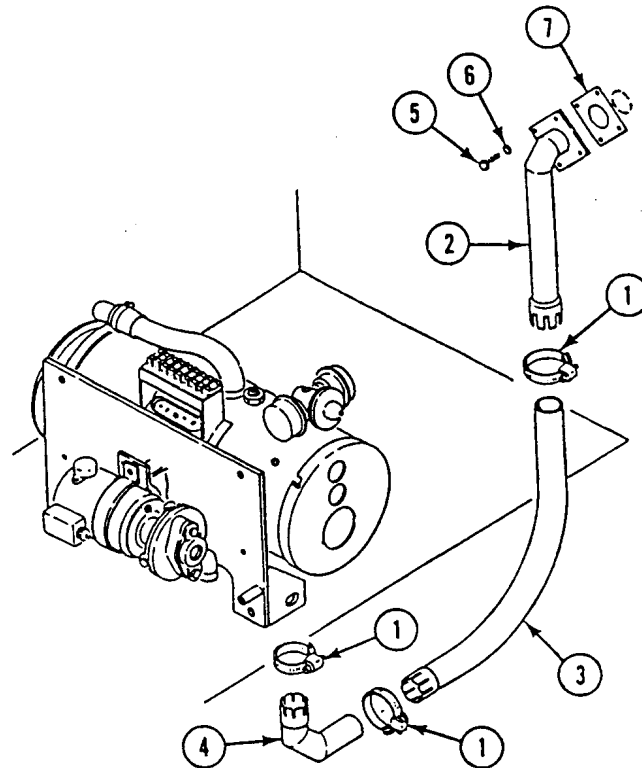
**Older gaskets are made out of asbestos. Handle with care. Discard older gasket properly as a hazardous material per local standard operating procedure.**

2. Remove four screws (5), washers (6), upper pipe (2), and gasket (7) from exhaust grill housing. Discard gasket.
3. Remove upper pipe (2) from lower pipe (3). Remove lower pipe (3) from elbow (4).
4. Remove elbow (4) from coolant heater.



**INSTALLATION**

1. Place clamp (1) on elbow (4). Install elbow on coolant heater. Tighten clamp.
2. Place clamp (1) on lower pipe (3). Install pipe in elbow (4). Tighten clamp.
3. Place clamp (1) on upper pipe (2). Install upper pipe in lower pipe (3). Tighten clamp.
4. Align new gasket (7) and upper pipe (2) with exhaust grill housing. Secure with four washers (6) and screws (5).

**FOLLOW-THROUGH STEPS**

1. Start coolant heater (see your -10). Check for exhaust leaks. Turn heater off.
2. Close power plant access door (see your -10).
3. Raise trim vane (see your -10).
4. Raise and lock ramp (see your -10).
5. Stop engine (see your -10).

**END OF TASK**

**REPLACE/REPAIR COOLANT HEATER CONTROL BOX**

**0648 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0648 00-1).
- Inspection-Acceptance and Rejection Criteria (page 0648 00-2).
- Installation (page 0648 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

WP 0070 00

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

Materials/Parts

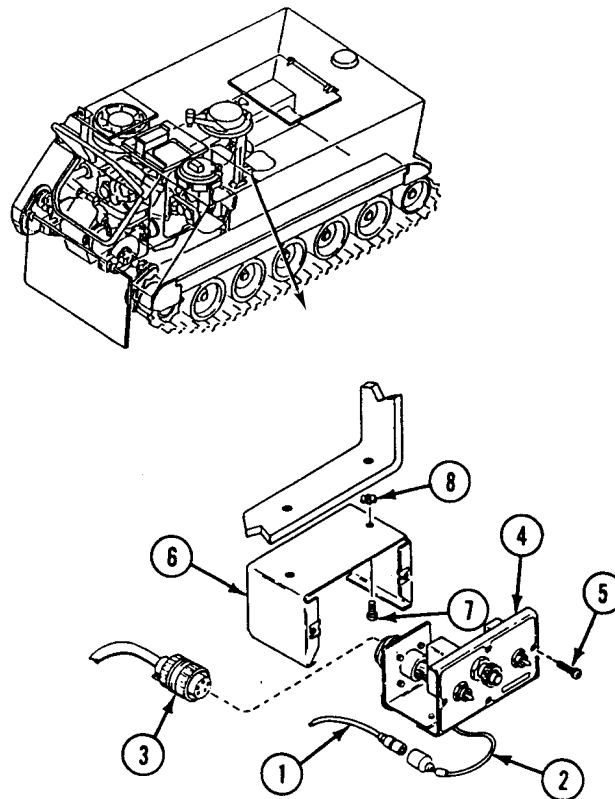
Lockwasher (2)

Personnel Required

Unit Mechanic

**REMOVAL**

1. Disconnect circuit 400A lead (1) from heater control box lead (2).
2. Disconnect heater wiring harness (3) from heater control box (4).
3. Remove two screws (5) and control box (4) from control box case (6).
4. Remove two screws (7), lockwashers (8), and case (6) from support bracket. Discard lockwashers.

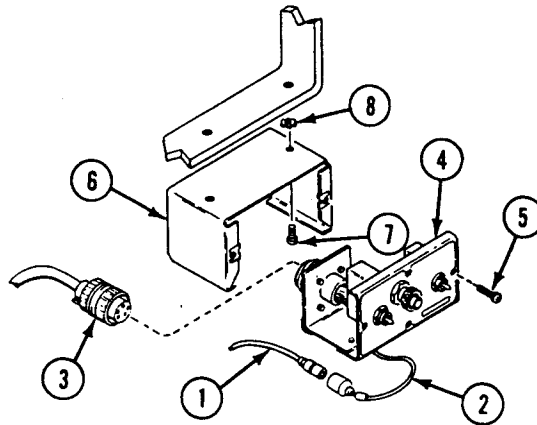


**INSPECTION-ACCEPTANCE AND REJECTION CRITERIA**

1. Check control box and components. See troubleshooting (WP 0070 00). Replace bad control box or components.

**INSTALLATION**

1. Place control box case (6) on support bracket. Secure with two new lockwashers (8) and screws (7).
2. Install heater control box (4) in case (6). Secure with two screws (5).
3. Connect heater wiring harness (3) to control box (4).
4. Connect circuit 400A lead (1) to control box lead (2).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Start heater (see your -10). Check that heater control box works right. Turn heater off.

**END OF TASK**

**REPLACE COOLANT PUMP TO COOLANT HEATER WIRING HARNESS**

**0649 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0649 00-1).
- Inspection and Repair (page 0649 00-2)
- Installation (page 0649 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0780 00, Item 29)
- Multimeter (WP 0780 00, Item 43)

Equipment Condition

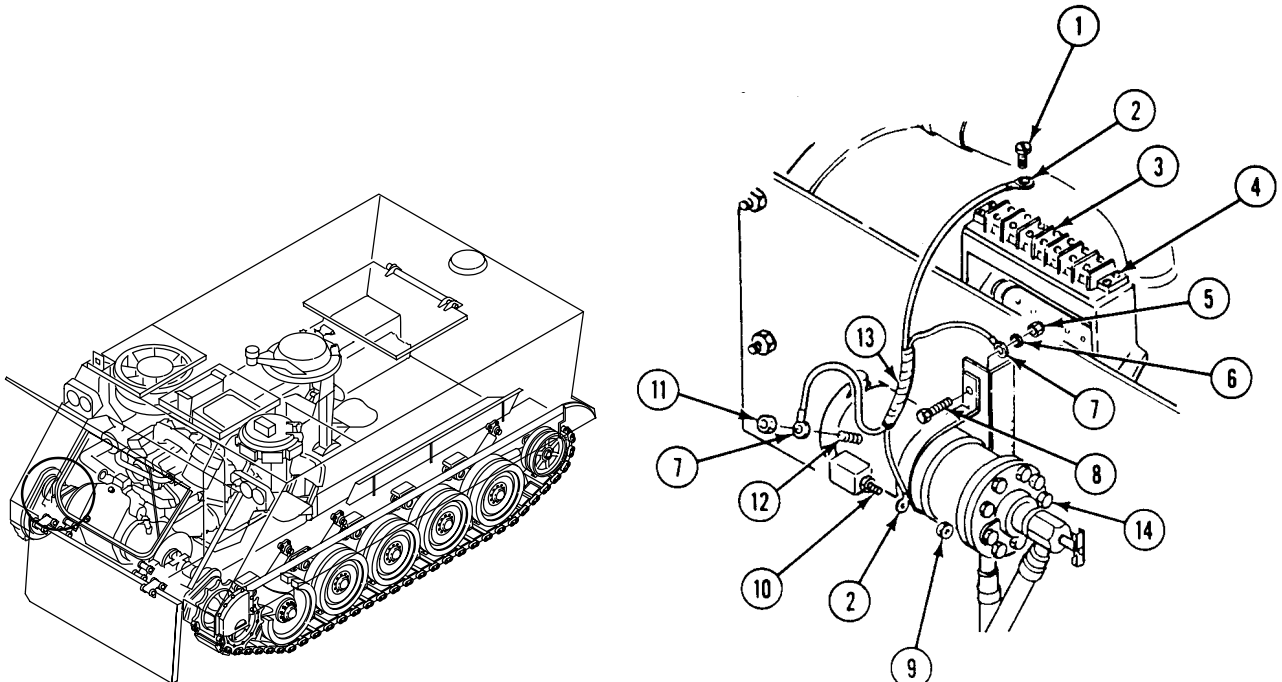
- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- Trim vane lowered (see your -10)
- Power plant access door opened (see your -10)
- Battery ground lead disconnected (WP 0294 00)

Materials/Parts

- Locknut
- Lockwasher

**REMOVAL**

1. Remove screw (1) and circuit lead (2) from terminal 4 (3) of heater terminal strip (4).
2. Remove locknut (5), lockwasher (6), and ground lead (7) from coolant pump mount screw (8). Discard locknut and lockwasher.
3. Remove nut (9) and circuit 402B lead (2) from coolant pump terminal (10).
4. Remove nut (11) and ground lead (7) from coolant pump terminal (12). Remove wiring harness (13) from pump (14).



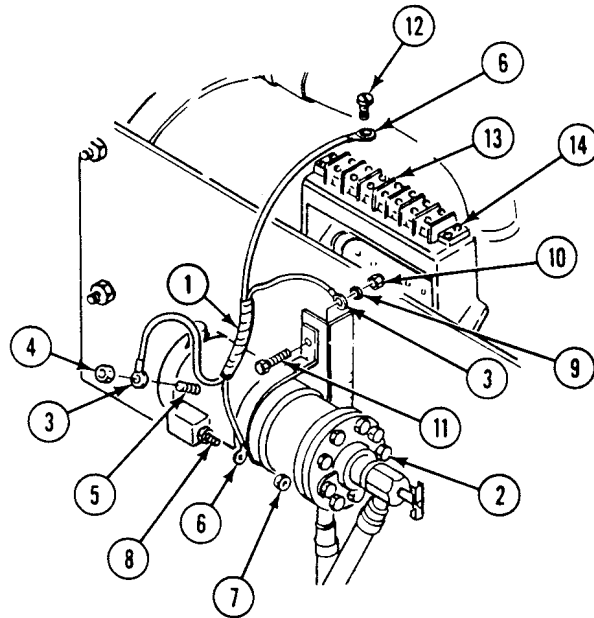


**INSPECTION AND REPAIR**

1. Check wiring harness continuity. Check leads for frayed or broken insulation or damaged terminal lugs. Repair harness as needed (WP 0312 00).

**INSTALLATION**

1. Place wiring harness (1) on coolant pump (2). Install ground lead (3) and nut (4) on pump terminal (5).
2. Install circuit 402B lead (6) and nut (7) on pump terminal (8).
3. Install ground lead (3), new lockwasher (9), and new locknut (10) on coolant pump mount screw (11).
4. Install circuit 402B lead (6) and screw (12) on terminal 4 (13) of terminal strip (14).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Start coolant heater (see your -10). Check that wiring harness is installed right. Turn heater off.
3. Close power plant access door (see your -10).
4. Raise trim vane (see your -10).

**END OF TASK**

**REPLACE COOLANT HEATER AND PUMP UNIT**

**0650 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0650 00-1).
- Inspection and Repair (page 0650 00-5).
- Installation (page 0650 00-5).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

Wiping rags (WP 0782 00, Item 76)

Lockwasher (2)

Personnel Required

Unit Mechanic

References

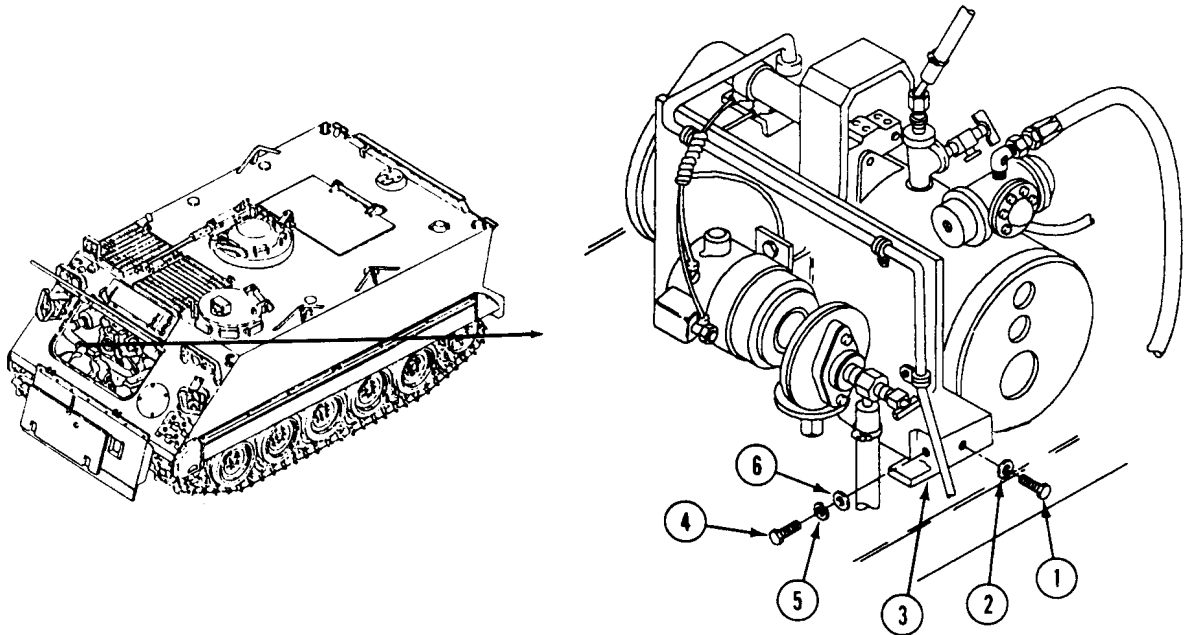
WP 0070 00

Equipment Condition

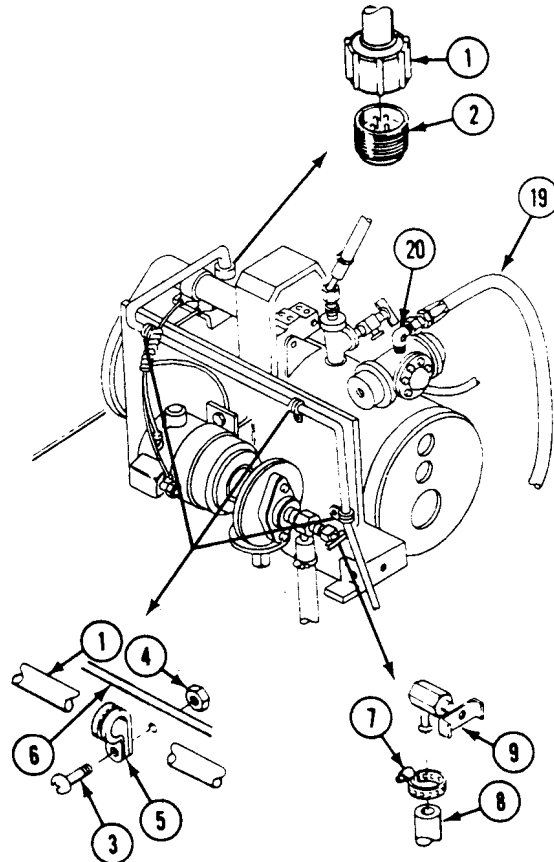
- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- Trim vane lowered (see your -10)
- Power plant front access door open (see your -10)
- Fuel tank shut off valve closed (see your -10)
- Coolant heater fuel shutoff valve closed (see your -10)
- Carrier cooling system drained (WP 0193 00)
- Battery ground lead disconnected (WP 0294 00)

**REMOVAL**

1. Remove two screws (1) and flat washers (2) from outboard end of bracket (3).
2. Remove two screws (4), lockwashers (5), and flat washers (6) from inboard end of bracket (3). Discard lockwashers.



3. Disconnect wiring harness (1) from receptacle (2).
4. Remove three screws (3), nuts (4), clamps (5), and harness (1) from bracket (6).
5. Loosen clamp (7). Remove hose (8) from coolant pump (9).



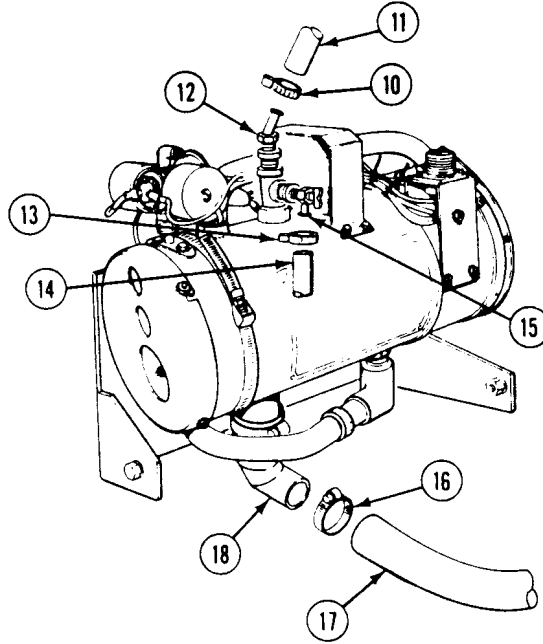
---

**REPLACE COOLANT HEATER AND PUMP UNIT — Continued**

---

**0650 00**

6. Loosen clamp (10). Disconnect hose (11) from elbow (12).
7. Loosen clamp (13). Disconnect hose (14) from shutoff valve (15).
8. Loosen clamp (16). Disconnect exhaust pipe (17) from elbow (18).

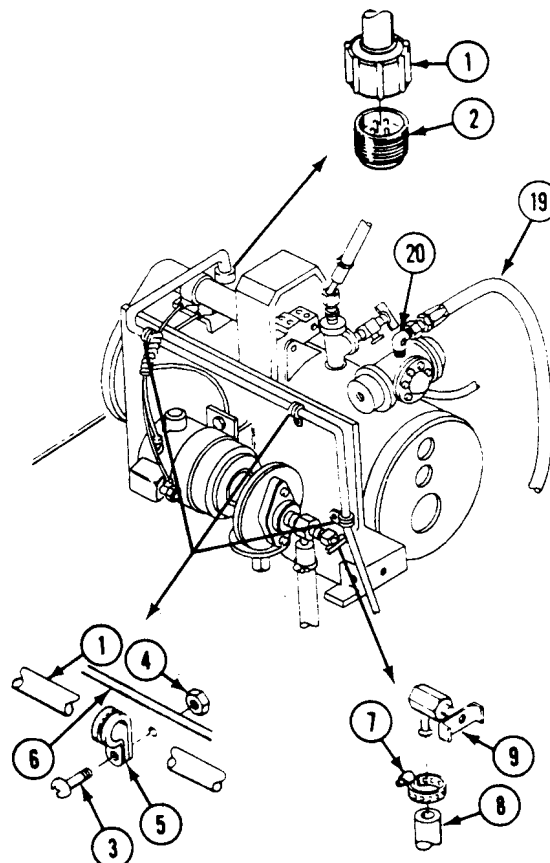


**WARNING**

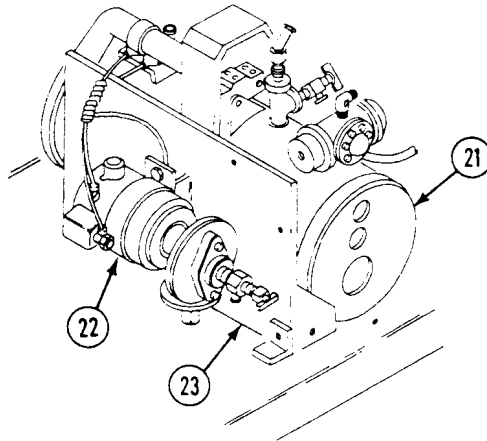


**Diesel fuel can catch fire and seriously injure or kill soldiers and damage or destroy the vehicle. Wipe up fuel spills immediately. Do not smoke near fuel or when working on the fuel system.**

9. Remove fuel supply hose (19) from elbow (20).



10. Remove heater (21), pump (22), and bracket (23) from carrier as an assembly.

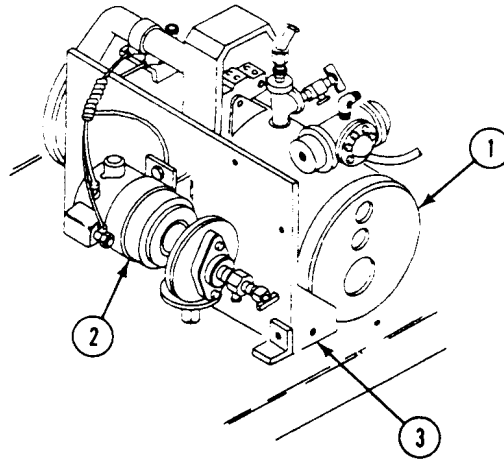


### INSPECTION AND REPAIR

1. Check coolant heater and components. See troubleshooting (WP 0070 00). Replace bad heater or components.
2. Check coolant pump. See troubleshooting (WP 0070 00). Replace bad coolant pump (WP 0652 00).
3. Check heater. Replace cracked, dented, or damaged heater (WP 0651 00).

### INSTALLATION

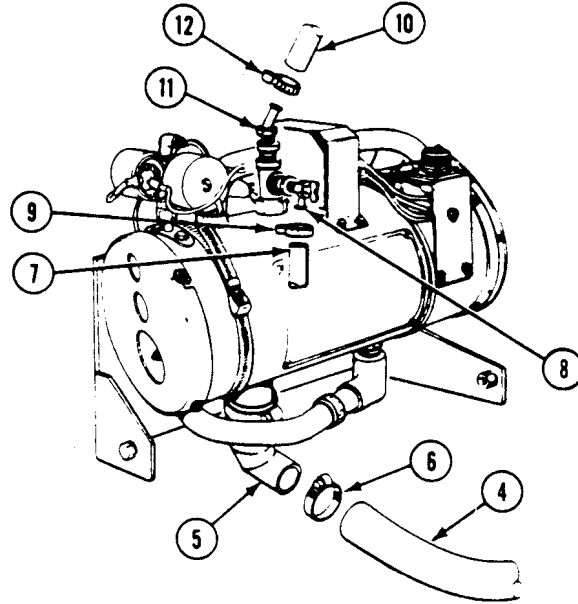
1. Install heater (1), pump (2), and bracket (3) assembly in carrier on right front sponson. Align bracket (3) with four hull brackets.



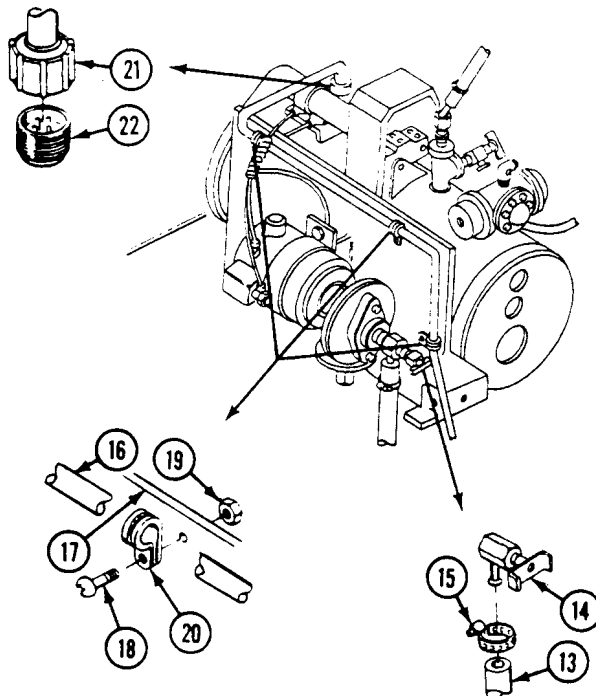
REPLACE COOLANT HEATER AND PUMP UNIT — Continued

0650 00

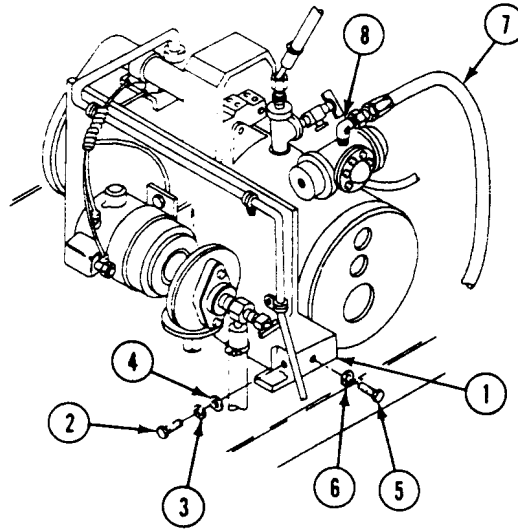
2. Connect exhaust pipe hose (4) to elbow (5). Secure with clamp (6).
3. Connect hose (7) to shutoff valve (8). Secure with clamp (9).
4. Connect hose (10) to elbow (11). Secure with clamp (12).



5. Connect hose (13) to coolant pump (14). Secure with clamp (15).
6. Install harness (16) on bracket (17). Secure with three screws (18), nuts (19), and clamps (20).
7. Connect harness (21) to receptacle (22).



8. Align bracket (1) with four hull brackets. Secure with two screws (2), new lockwashers (3), and flat washers (4) in outboard end of bracket (1) and brackets on hull.
9. Install two screws (5), and two flat washers (6) in inboard end of bracket (1) and brackets on hull.
10. Install fuel supply hose (7) on elbow (8).



#### FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0294 00).
2. Fill carrier cooling system (WP 0194 00).
3. Open personnel heater fuel shutoff valve (see your -10).
4. Start coolant heater (see your -10). Check to make sure heater is installed right. Check for leaks. Turn heater off.
5. Close power plant front access door (see your -10).
6. Raise trim vane (see your -10).

#### END OF TASK





---

**REPLACE COOLANT HEATER**

**0651 00**

---

**THIS WORK PACKAGE COVERS:**

- Removal (page 0651 00-1).
  - Inspection and Repair (page 0651 00-2).
  - Installation (page 0651 00-3).
- 

**INITIAL SETUP:**

Maintenance Level

Unit

References

WP 0070 00

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Coolant heater and pump unit removed from carrier (WP 0650 00)

Materials/Parts

Sealing compound (WP 0782 00, Item 60)

Coolant heater pump removed (WP 0652 00)

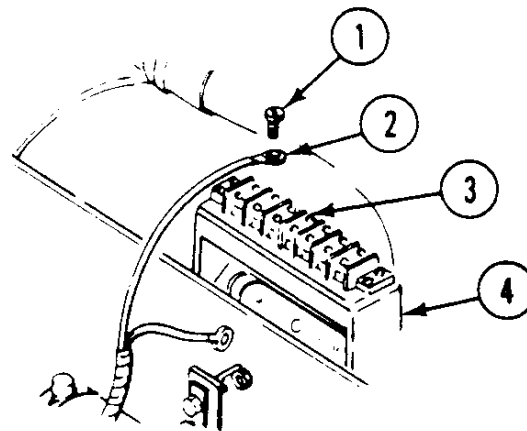
Personnel Required

Unit Mechanic

---

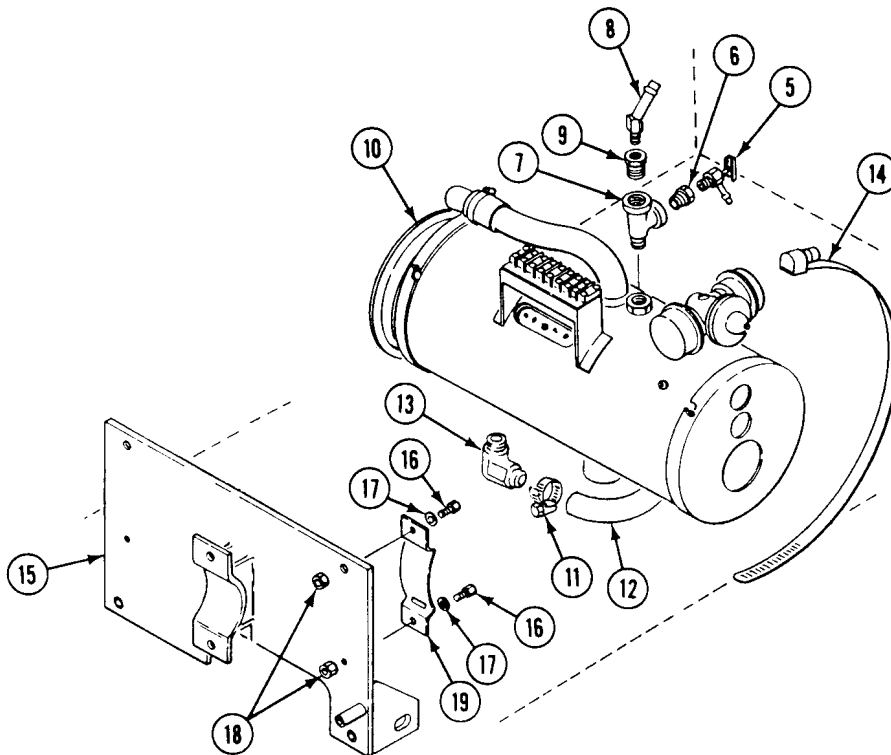
**REMOVAL**

1. Remove screw (1) and circuit 402B lead (2) from terminal 4 (3) of heater terminal strip (4).



**REPLACE COOLANT HEATER — Continued****0651 00**

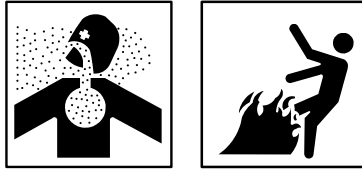
2. Remove shutoff valve (5) and bushing (6) from tee (7).
3. Remove elbow (8), bushing (9), and tee (7) from heater (10).
4. Loosen clamp (11). Remove pump-to-heater hose (12) from elbow (13).
5. Remove elbow (13) from heater (10).
6. Loosen two clamps (14). Remove heater (10) from bracket (15).
7. Remove four screws (16), washers (17), nuts (18), and two heater saddle mounts (19) from bracket (15).

**INSPECTION AND REPAIR**

1. Check coolant heater and components. See troubleshooting (WP 0070 00). Replace bad heater or components.
2. Check coolant heater. Replace cracked, damaged, or leaky heater. Replace heater that shows burn-through.

**INSTALLATION**

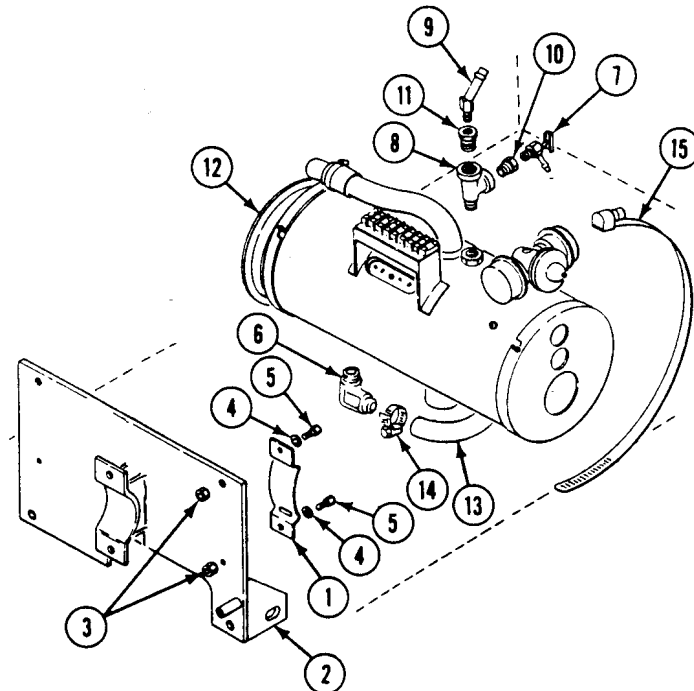
1. Install saddle mounts (1) on bracket (2). Secure with four nuts (3), washers (4), and screws (5).

**WARNING**

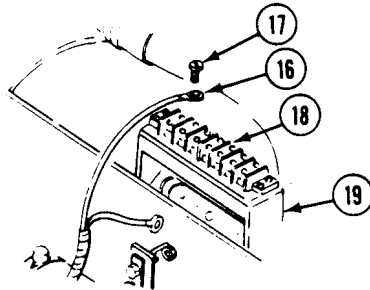
**Adhesive, primer, sealant compounds, and isopropyl alcohol are toxic and flammable. These compounds are toxic to eyes, skin, and respiratory tract. Continued exposure can make you dizzy and irritate your eyes and throat.**

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

2. Apply sealing compound to threads of elbow (6), shutoff valve (7), tee (8), elbow (9), and bushings (10) and (11).
3. Install elbow (6) in heater (12).
4. Install hose (13) on elbow (6). Secure with clamp (14).
5. Install heater (12) on bracket (2). Secure with two clamps (15).
6. Install tee (8) in heater (12).
7. Install bushing (10) in tee (8).
8. Install shut off valve (7) in bushing (10).
9. Install bushing (11) in tee (8).
10. Install elbow (9) in bushing (11).



11. Connect circuit 402B lead (16) and screw (17) on terminal 4 (18) of heater terminal strip (19).

**FOLLOW-THROUGH STEPS**

1. Install coolant heater pump (WP 0652 00).
2. Install coolant heater and pump unit (WP 0650 00).

**END OF TASK**

**REPLACE COOLANT HEATER PUMP**

**0652 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0652 00-1).  
 Installation (page 0652 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

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)  
 Coolant heater and pump unit removed from carrier  
 (WP 0650 00)  
 Wiring harness removed (WP 0649 00)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

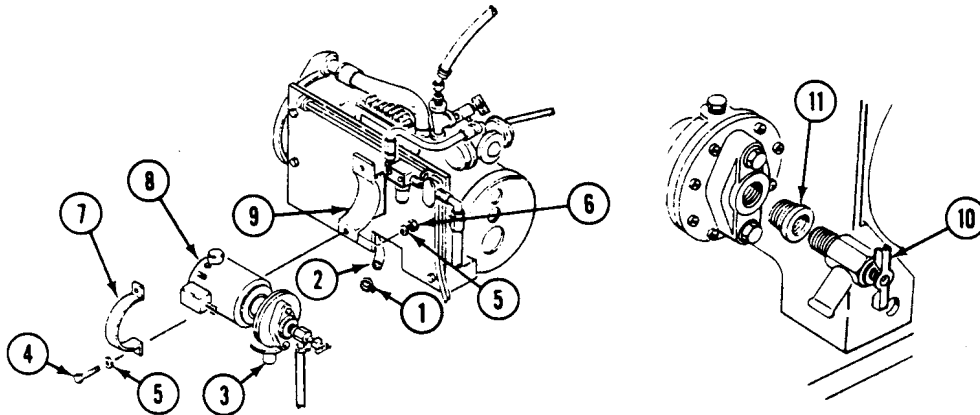
Sealing compound (WP 0782 00, Item 60)  
 Locknut (2)

Personnel Required

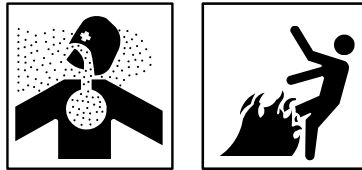
Unit Mechanic

**REMOVAL**

1. Loosen clamp (1). Remove hose (2) from elbow (3).
2. Remove two screws (4), four washers (5), two locknuts (6), retaining strap (7), and pump (8) from support bracket (9). Discard locknuts.
3. Remove elbow (3) from pump (8).
4. Remove shutoff valve (10) from bushing (11).
5. Remove bushing (11) from coolant pump (8).



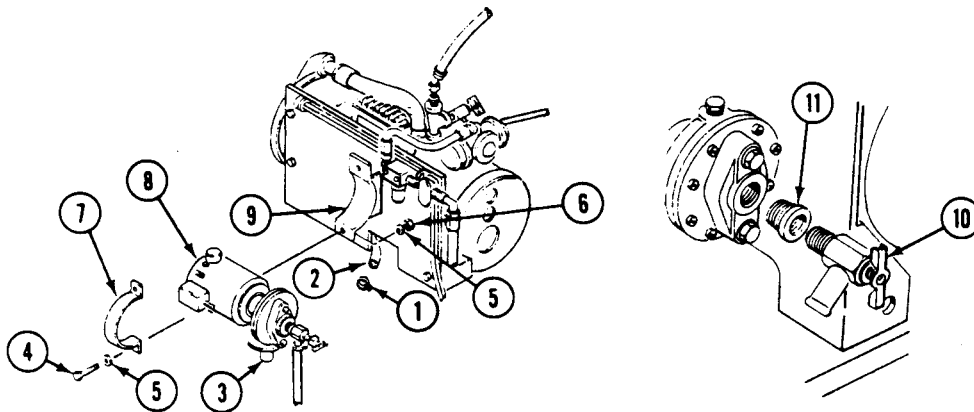
## INSTALLATION

**WARNING**

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

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

1. Apply sealing compound to threads of elbow (3) and shutoff valve (10).
2. Install bushing (11) in coolant pump (8).
3. Install shutoff valve (10) in bushing (11).
4. Install elbow (3) in coolant pump (8).
5. Install pump (8) on bracket (9). Secure with retaining strap (7), two screws (4), four washers (5), and two new locknuts (6).
6. Install hose (2) on elbow (3). Secure with clamp (1).

**FOLLOW-THROUGH STEPS**

1. Install wiring harness (WP 0649 00).
2. Install coolant heater and pump unit (WP 0650 00).
3. Start coolant heater (see your -10). Check for leaks. Turn heater off.
4. Close power plant access door (see your -10).
5. Raise trim vane (see your -10).

**END OF TASK**

**CHAPTER 34**  
**UNIT MAINTENANCE INSTRUCTIONS**  
**FOR CAPSTAN KIT**

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>                                       | <u>Sequence No.</u> |
|--|---------------------|
| REPLACE DRUM ASSEMBLY (M113A2 AND M1059 ONLY)..... | 0653 00             |
| REPLACE DRUM ADAPTER (M113A2 AND M1059 ONLY).....  | 0654 00             |





---

**REPLACE DRUM ASSEMBLY (M113A2 AND M1059 ONLY)**

---

**0653 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0653 00-1).  
 Installation (page 0653 00-2).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

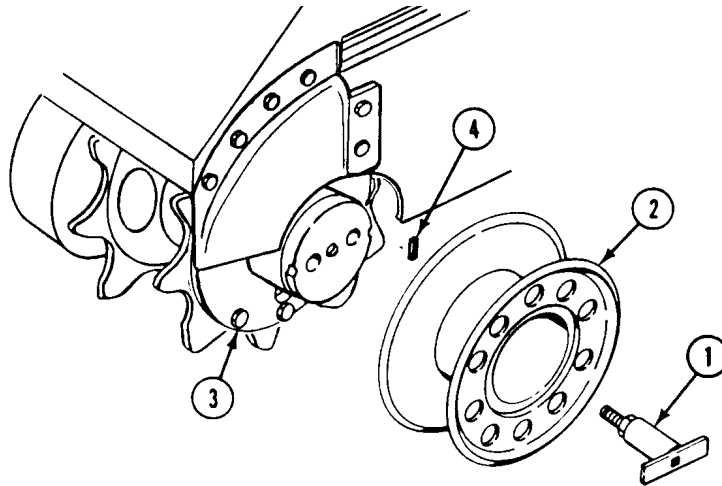
Materials/Parts

Spring pin

---

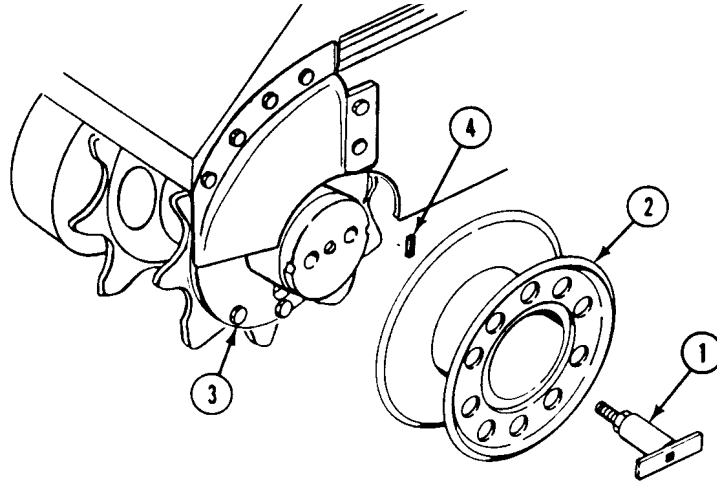
**REMOVAL**

1. Loosen retainer (1). Remove drum (2) from adapter (3).
2. Remove spring pin (4) and retainer (1) from drum (2). Discard spring pin.



**INSTALLATION**

1. Secure retainer (1) in drum (2) with new spring pin (4).
2. Install drum (2) on adapter (3). Tightly secure retainer (1).

**END OF TASK**

---

**REPLACE DRUM ADAPTER (M113A2 AND M1059 ONLY)**

---

**0654 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0654 00-1).  
 Installation (page 0654 00-2).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)  
 Torque Wrench (WP 0780 00, Item 103)

Equipment Condition

Engine stopped (see your -10)  
 Carrier blocked (see your -10)  
 Drum assembly removed (WP 0653 00)

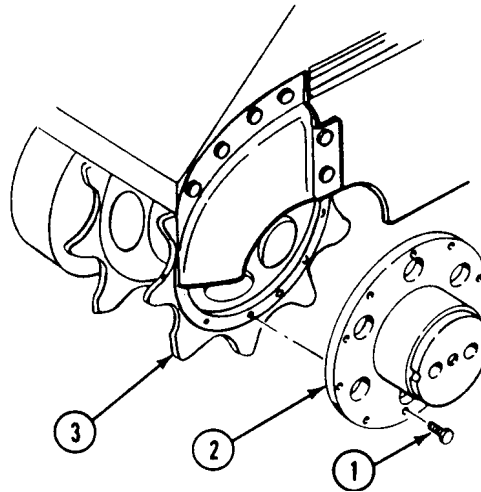
Materials/Parts

Screw (10)

---

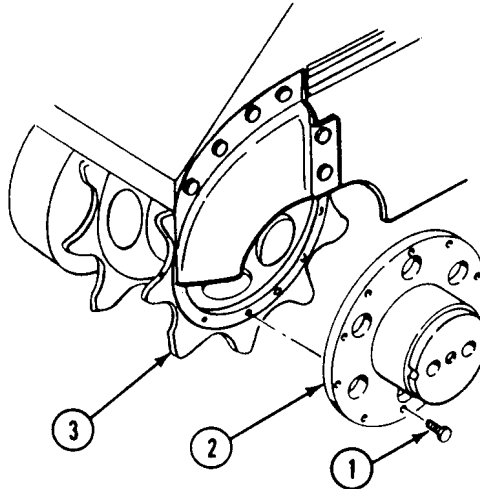
**REMOVAL**

1. Remove ten screws (1) and adapter (2) from drive sprocket (3). Discard screws.



**INSTALLATION**

1. Secure adapter (2) to drive sprocket (3) with ten new screws (1). TIGHTEN SCREWS TO 110-115 LB-FT (149-156 N·M) TORQUE. Use torque wrench.

**FOLLOW-THROUGH STEPS**

1. Install drum assembly (WP 0653 00).

**END OF TASK**

CHAPTER 35

UNIT MAINTENANCE INSTRUCTIONS  
FOR MARINE RECOVERY KIT

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| REPLACE TARPAULIN AND STRAPS (M113A2 AND M1059 ONLY).....       | 0655 00             |
| REPLACE STOWAGE HOOKS AND BRACKETS (M113A2 AND M1059 ONLY)..... | 0656 00             |
| REPAIR TOWLINES (M113A2 AND M1059 ONLY).....                    | 0657 00             |



---

**REPLACE TARPAULIN AND STRAPS (M113A2 AND M1059 ONLY)**

---

**0655 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0655 00-1).  
 Installation (page 0655 00-2).

---

**INITIAL SETUP:**

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

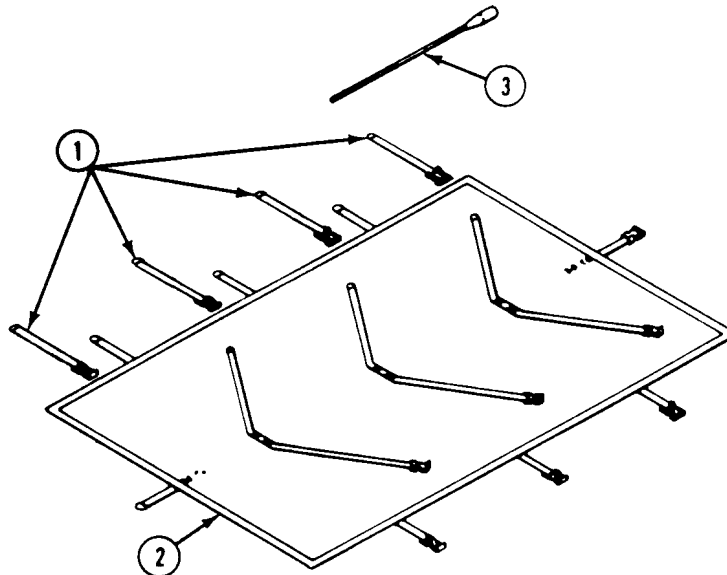
Personnel Required

Unit Mechanic

---

**REMOVAL**

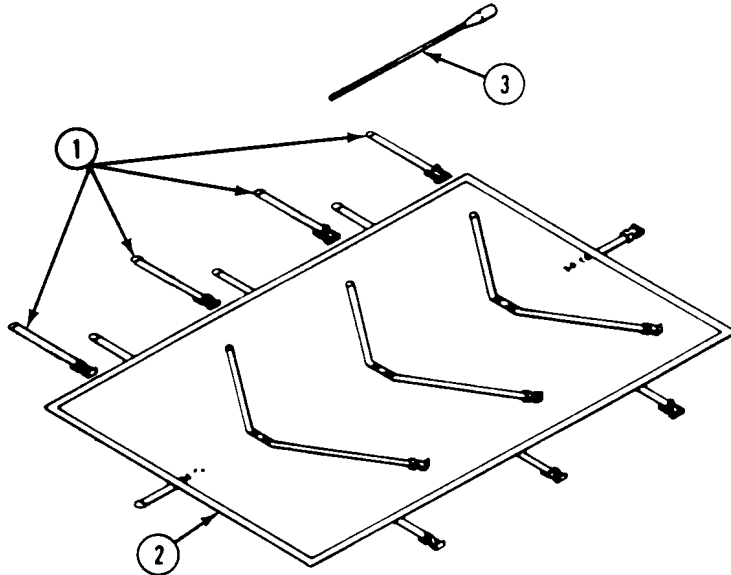
1. Remove four stowage straps (1), tarpaulin (2), and fid (3) from carrier.





**INSTALLATION**

1. Keep tarpaulin (2), fid (3), and four stowage straps (1) in carrier until kit is stowed (see your -10).

**END OF TASK**

**REPLACE STOWAGE HOOKS AND BRACKETS (M113A2 AND M1059 ONLY)**

**0656 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0656 00-1).
- Installation (page 0656 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Tools and Special Tools

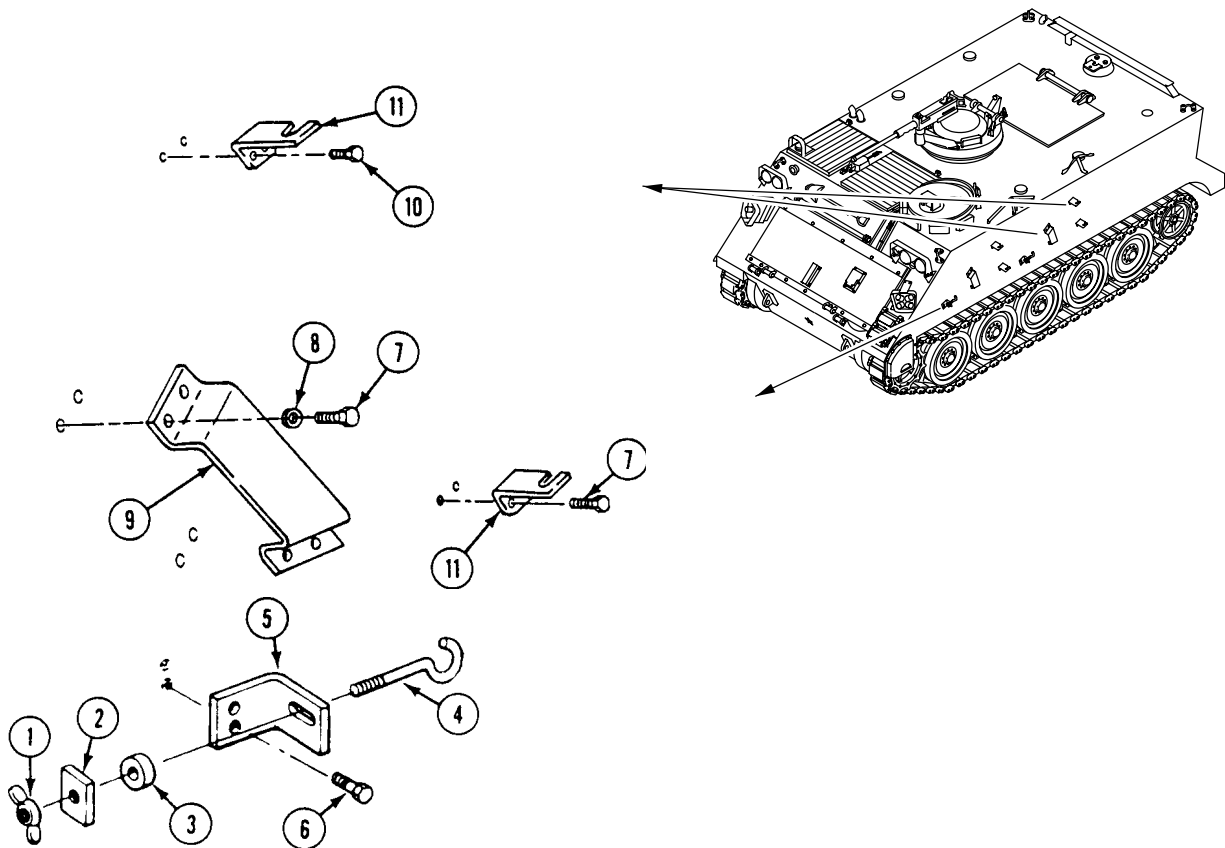
General Mechanic's Tool Kit (WP 0780 00, Item 29)

Personnel Required

Unit Mechanic

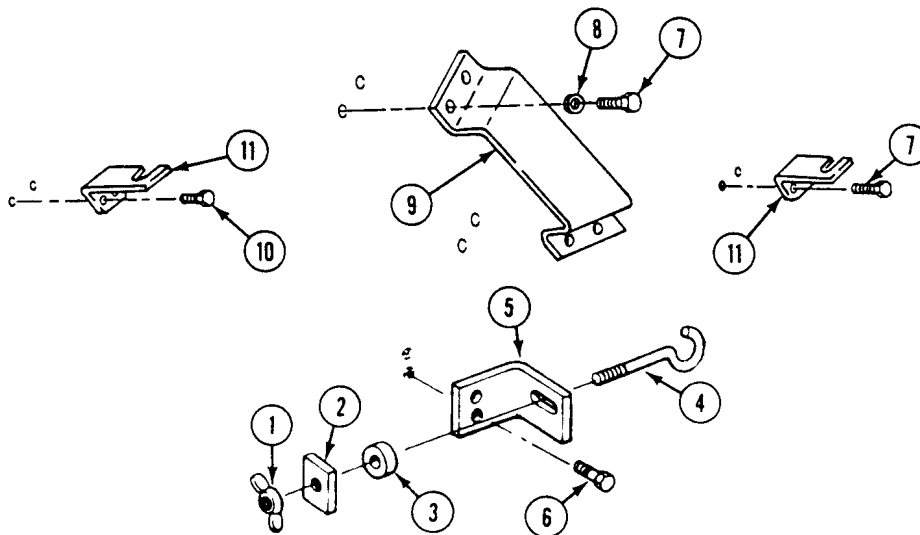
**REMOVAL**

1. Remove two wing nuts (1), plates (2), spacers (3), and hooks (4) from brackets (5).
2. Remove four screws (6) and two brackets (5) from carrier.
3. Remove eight screws (7), washers (8), and two brackets (9) from carrier.
4. Remove eight screws (10) and four brackets (11) from carrier.



**REPLACE STORAGE HOOKS AND BRACKETS (M113A2 AND M1059 ONLY) — Continued****0656 00****INSTALLATION**

1. Install four brackets (11) on carrier. Secure with eight screws (10).
2. Install two brackets (9) on carrier. Secure with eight washers (8) and screws (7).
3. Install two brackets (5) on carrier. Secure with four screws (6).
4. Install two hooks (4) in two brackets (5). Secure with two spacers (3), plates (2), and wing nuts (1). Deform last two threads of hooks to retain wing nuts.

**END OF TASK**

---

**REPAIR TOWLINES (M113A2 AND M1059 ONLY)**

---

**0657 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0657 00-1).
  - Clean, Inspect, and Repair (page 0657 00-2).
  - Installation (page 0657 00-3).
- 

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0780 00, Item 29)
- Leather Gloves (WP 0780 00, Item 30)

Equipment Condition

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

**REMOVAL**

---

**WARNING**

---

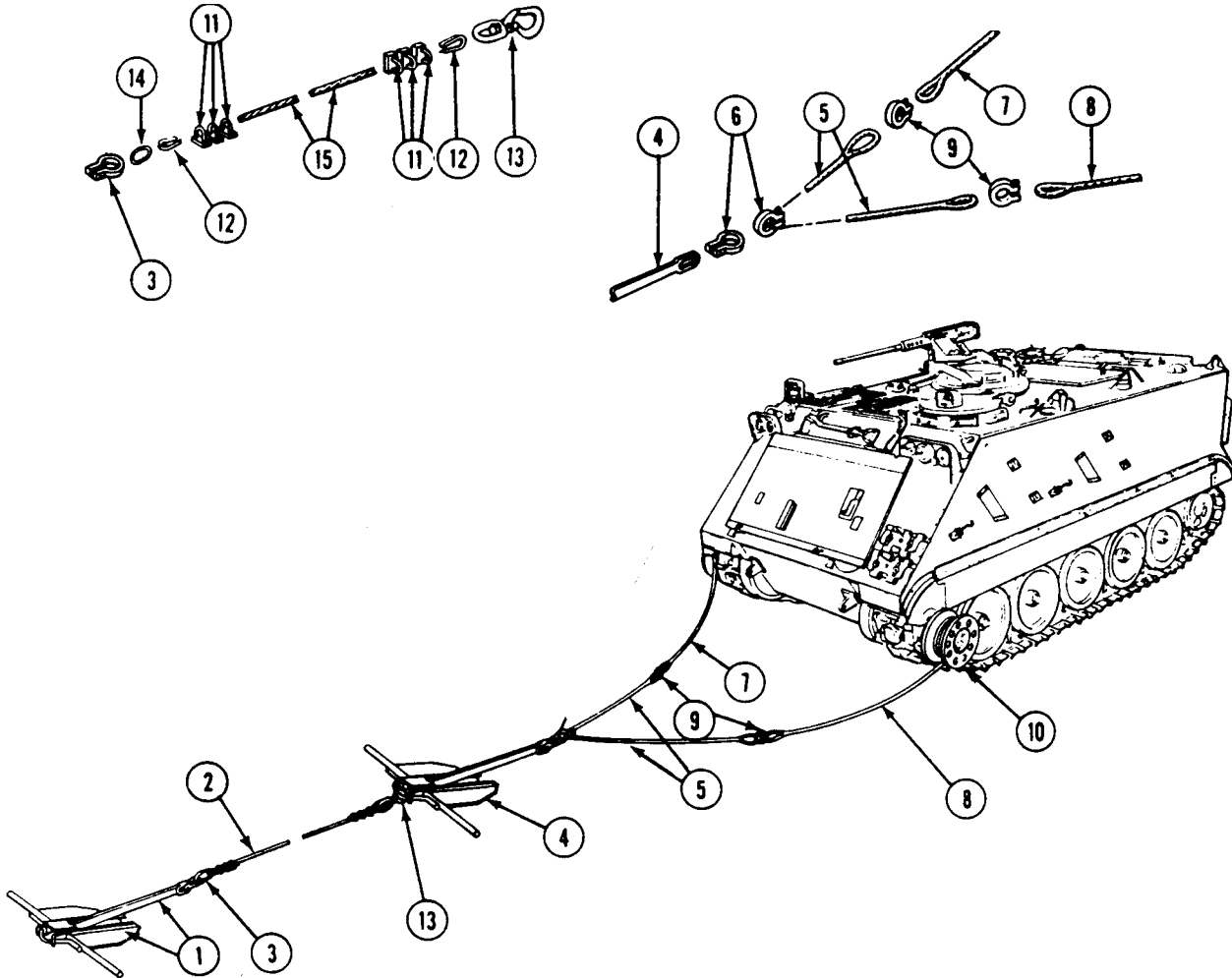


**Damaged wire rope can seriously injure you. Inspect wire rope before handling it. Wear heavy gloves to protect hands from sharp broken wires.**

REPAIR TOWLINES (M113A2 AND M1059 ONLY) — Continued

0657 00

1. Disconnect anchor (1) from cable assembly (2) at shackle (3).
2. Disconnect cable assembly (2) from anchor (4).
3. Disconnect anchor (4) from towline (5) at two shackles (6).
4. Disconnect towlines (7) and (8) from towlines (5) at two shackles (9).
5. Uncoil two towlines (7) and (8) from two capstan drums (10).
6. Remove six clamps (11), two thimbles (12), hook (13), and link (14) from wire cable (15).

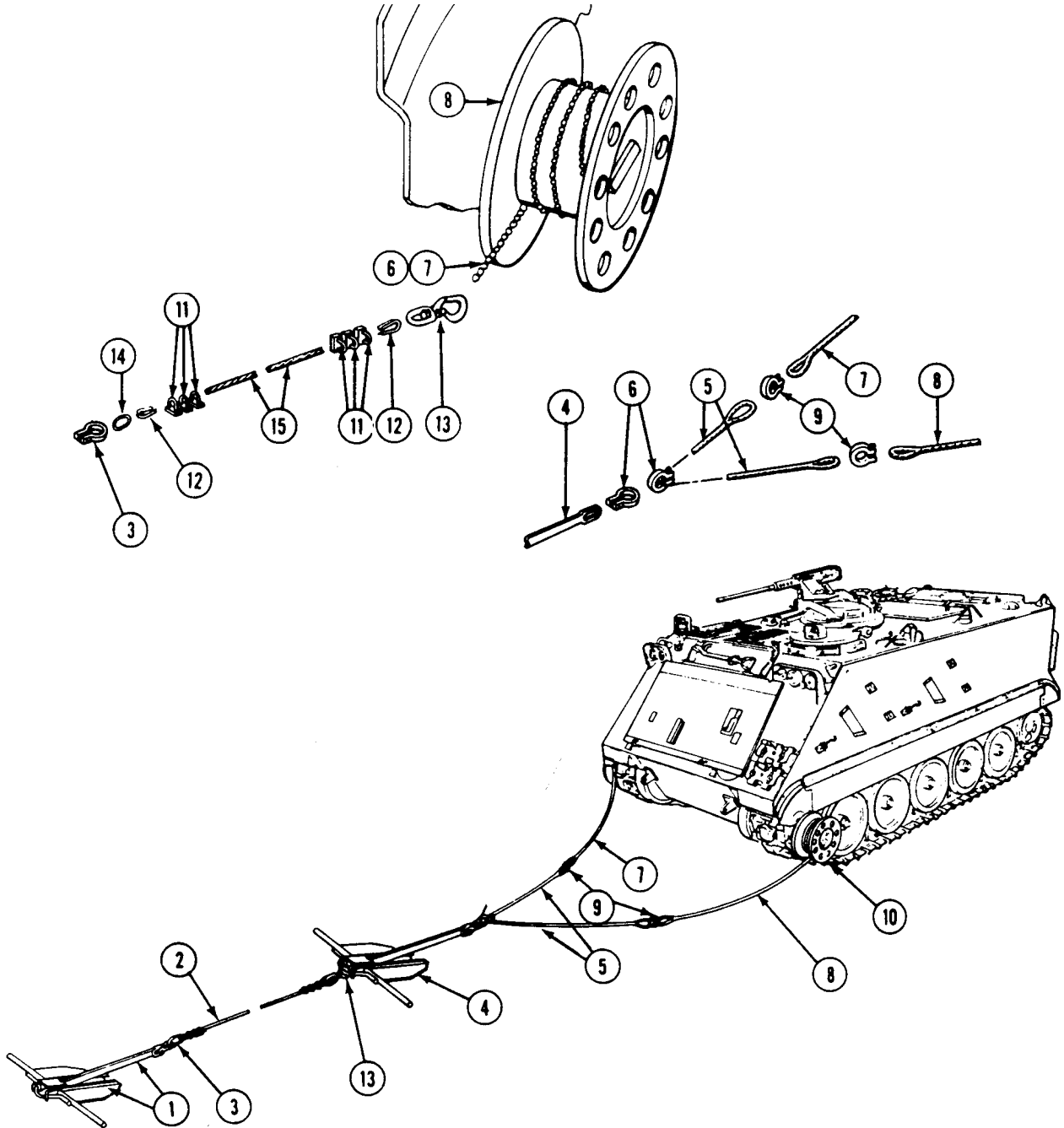


**CLEAN, INSPECT, AND REPAIR**

1. Clean and lubricate cables.
2. Check towlines. Replace worn or damaged towlines.
3. Check wire cable . Replace worn or damaged cable.
4. Check cable clamps. Replace clamps that have stripped threads.

**INSTALLATION**

1. Install wire cable (15) to two thimbles (12), hook (13), and link (14). Secure with six clamps (11).
2. Coil two towlines (7) and (8) on two capstan drums (10).
3. Connect two towlines (7) and (8) to towline (5) with two shackles (9).
4. Connect towline (5) to anchor (4) with two shackles (6).
5. Connect cable assembly (2) to two anchors (1) and (4) with hook (13) and shackles (3).



**END OF TASK**



CHAPTER 36

UNIT MAINTENANCE INSTRUCTIONS  
FOR LITTER KIT (M113A2 ONLY)

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>                              | <u>Sequence No.</u> |
|---|---------------------|
| REPLACE CHAIN ASSEMBLY (M113A2 ONLY)..... | 0658 00             |
| REPAIR CHAIN ASSEMBLY (M113A2 ONLY).....  | 0659 00             |
| REPLACE POST ASSEMBLY (M113A2 ONLY).....  | 0660 00             |
| REPAIR POST ASSEMBLY (M113A2 ONLY).....   | 0661 00             |





**REPLACE CHAIN ASSEMBLY (M113A2 ONLY)**

**0658 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0658 00-1).  
 Installation (page 0658 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

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

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Personnel Required

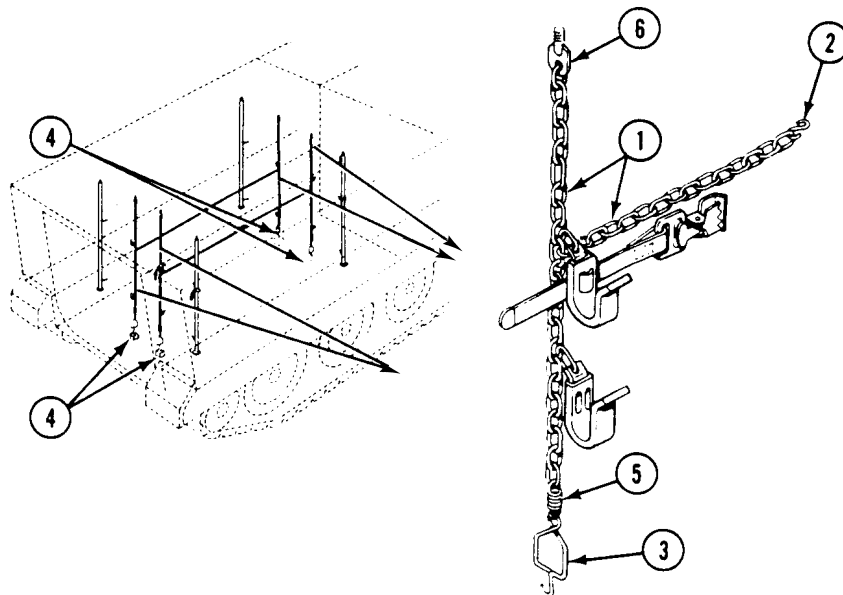
Unit Mechanic

**NOTE**

**All four chains are removed and installed in the same way.**

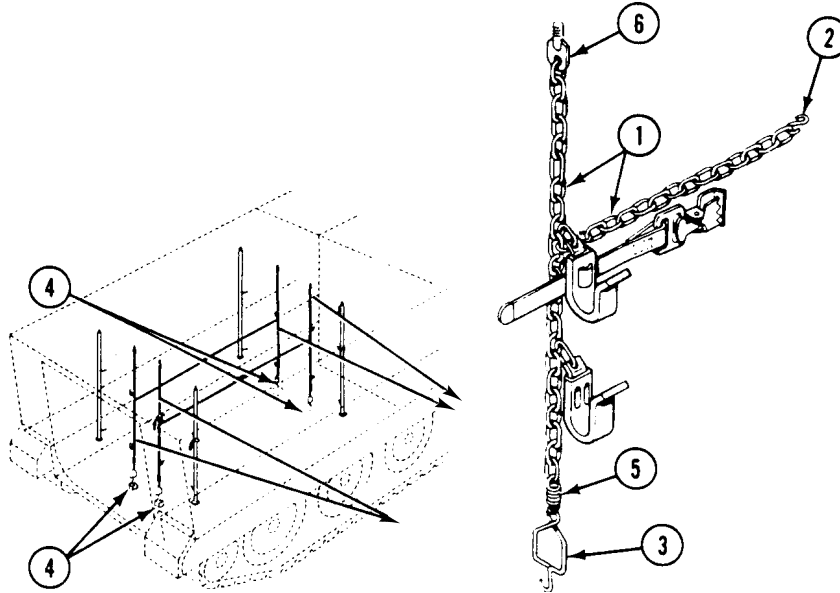
**REMOVAL**

1. Disconnect four chain assemblies (1) at two S-hooks (2).
2. Remove four hooks (3) from four anchors (4) by extending spring (5). Use your hand or foot to extend spring (5).
3. Remove four hangers (5) and chain assemblies (1) from hull top.



**INSTALLATION**

1. Suspend four chain assemblies (1) by installing four hangers (6) in hull top.
2. Attach four hooks (3) to four anchors (4) by extending four springs (5). Use your hand or foot to extend springs (5).
3. Connect four chain assemblies (1) with two S-hooks (2).

**FOLLOW-THROUGH STEPS**

1. Raise and lock ramp (see your -10).
2. Stop engine (see your -10).

**END OF TASK**

---

**REPAIR CHAIN ASSEMBLY (M113A2 ONLY)**

---

**0659 00**

**THIS WORK PACKAGE COVERS:**

Disassembly (page 0659 00-2).  
Assembly (page 0659 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Chain assembly removed (WP 0658 00)

---

DISASSEMBLY

**NOTE**

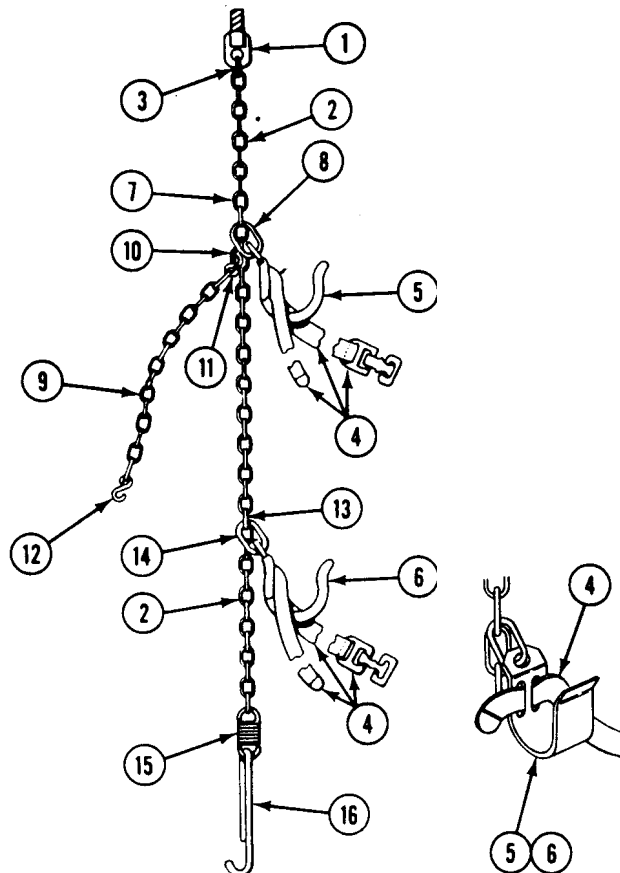
All four chains are disassembled and assembled in the same way.

1. Remove hanger (1) from chain assembly (2) by opening repair link (3).
2. Remove two straps (4) from two litter hooks (5) and (6).

**NOTE**

Chain link 1 is at the top.

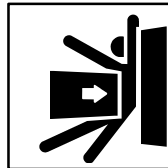
3. Remove upper litter hook (5) from chain link 18 (7) by opening repair link (8).
4. Remove chain (9) from chain link 24 (10) by opening S-hook (11).
5. Remove S-hook (12) from chain (9).
6. Remove lower litter hook (6) from chain link 47 (13) by opening repair link (14).
7. Remove spring (15) from chain assembly (2).
8. Remove hook (16) from spring (15).



**ASSEMBLY**

1. Install hook (16) on spring (15).
2. Install spring (15) on chain assembly (2).

**WARNING**

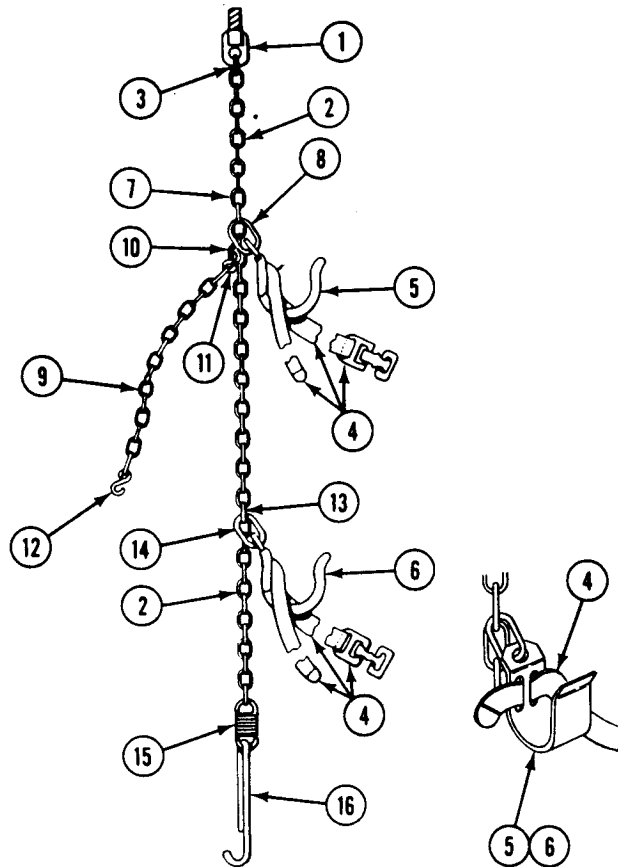


To prevent litter tilt, which could cause injury, be sure to install repair link at chain link No. 47.

**NOTE**

Chain link 1 is at the top.

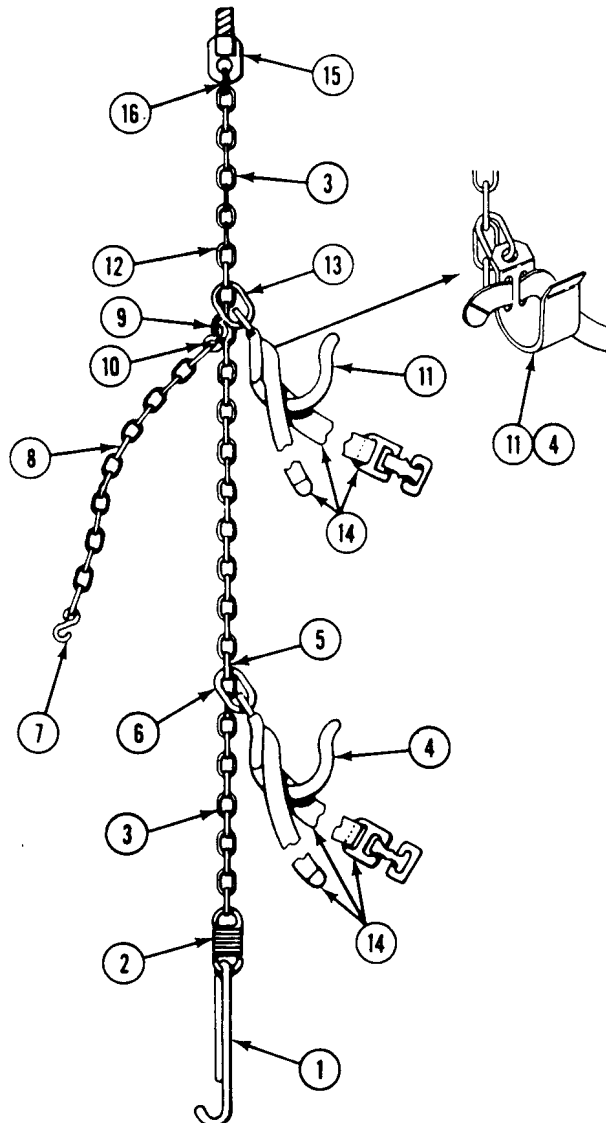
3. Install lower litter hook (6) on chain link 47 (13) with repair link (14). Crimp repair link to secure.
4. Install S-hook (12) on chain (9).



REPAIR CHAIN ASSEMBLY (M113A2 ONLY) — Continued

0659 00

5. Connect chain (8) to chain link 24 (9) with S-hook (10). Crimp S-hook to secure.
6. Connect upper litter hook (11) to chain link (12) with repair link (13). Crimp repair link to secure.
7. Install two litter straps (14) in upper and lower litter hooks (4) and (11). Install straps through both slots in litter hooks and tie straps.
8. Connect hanger (15) to top link of chain assembly (3) with repair link (16). Crimp repair link to secure.



**FOLLOW-THROUGH STEPS**

1. Install chain assembly (WP 0658 00).

**END OF TASK**

**REPLACE POST ASSEMBLY (M113A2 ONLY)**

**0660 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0660 00-1).  
 Installation (page 0660 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Ramp lowered (see your -10)

Materials/Parts

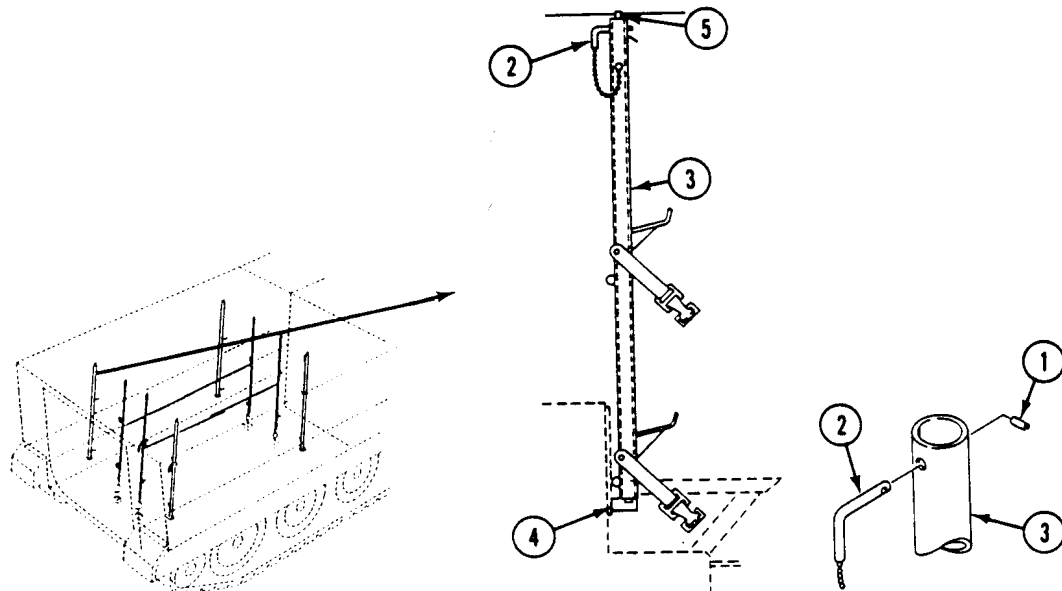
Spring pin

**REMOVAL**

**NOTE**

**All four posts are removed and installed in the same way.**

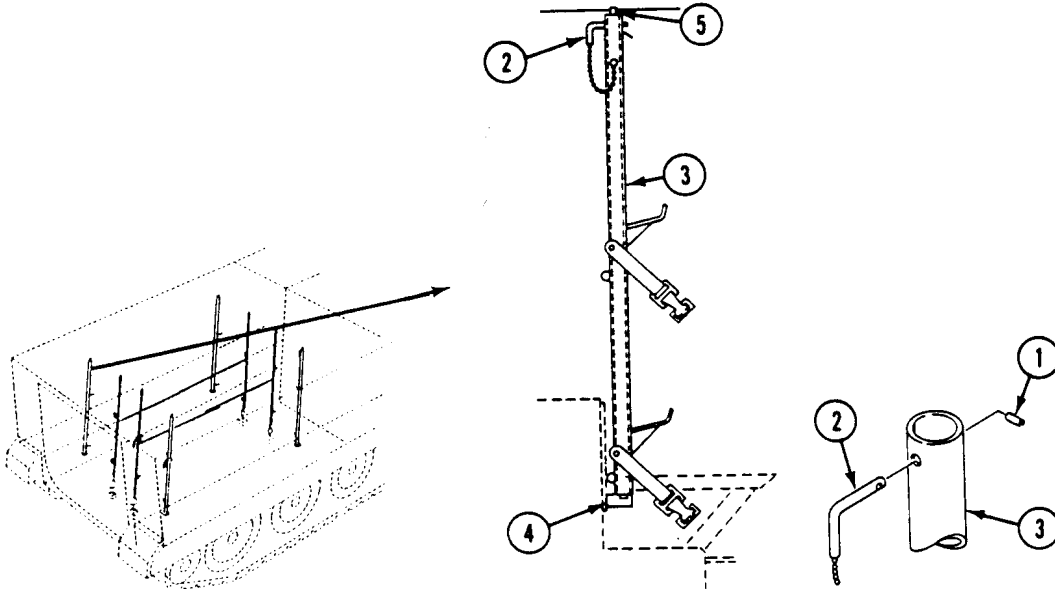
1. Remove spring pin (1) from pin (2). Discard spring pin.
2. Turn and remove pin (2) from post (3).
3. Lift bottom of post (3) until it clears personnel seat bracket (4). Then lower post until it clears stud (5) in hull top.





**INSTALLATION**

1. Place post (3) under stud (5) in hull top. Lift bottom of post up as far as it will go.
2. Lower bottom of post (3) into personnel seat bracket (4).
3. Insert pin (2) through post (3). Turn end of pin down.
4. Install and secure new spring pin (1) in pin (2).

**FOLLOW-THROUGH STEPS**

1. Raise and lock ramp (see your -10).
2. Stop engine (see your -10).

**END OF TASK**

**REPAIR POST ASSEMBLY (M113A2 ONLY)**

**0661 00**

**THIS WORK PACKAGE COVERS:**

- Disassembly (page 0661 00-1).
- Cleaning, Inspection, and Repair (page 0661 00-2).
- Assembly (page 0661 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Post assembly removed (WP 0660 00)

Materials/Parts

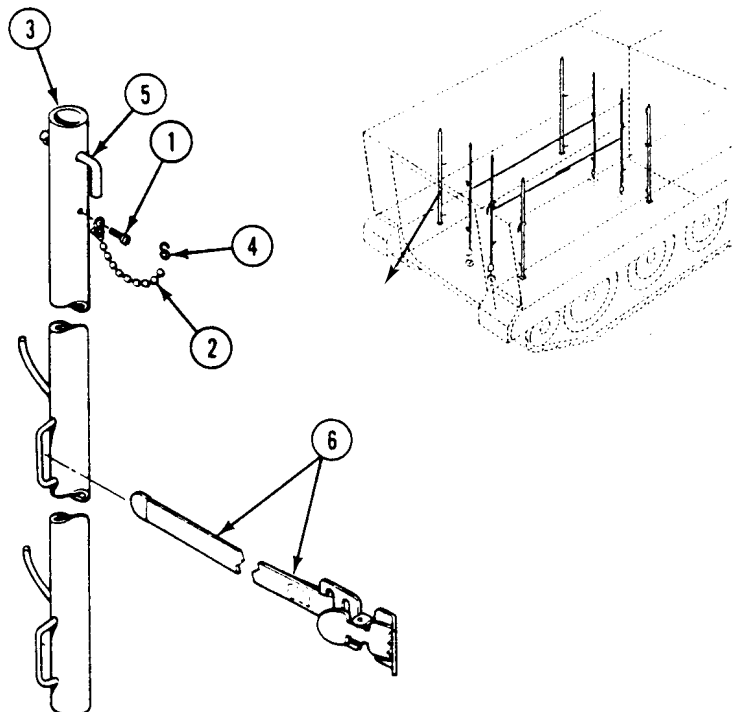
- Drive screw
- S-hook

**DISASSEMBLY**

**NOTE**

**All four posts are repaired in the same way.**

1. Remove drive screw (1) and bead chain (2) from post (3). Discard drive screw.
2. Open and remove S-hook (4) and bead chain (2) from pin (5). Discard S-hook.
3. Remove two straps (6) from post (3).

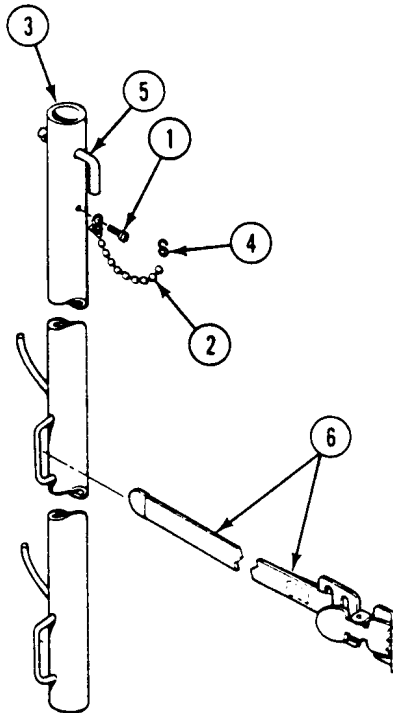


**CLEANING, INSPECTION, AND REPAIR**

1. Inspect parts for corrosion, distortion, cracks, breaks, and loose or missing parts. Repair or replace damaged and missing parts.

**ASSEMBLY**

1. Install two straps (6) on post (3).
2. Secure pin (5) to bead chain (2) with new S-hook (4). Crimp S-hook to secure.
3. Secure bead chain (2) to post (3) with new drive screw (1).

**FOLLOW-THROUGH STEPS**

1. Install post assembly (WP 0660 00).

**END OF TASK**

CHAPTER 37

UNIT MAINTENANCE INSTRUCTIONS  
FOR ARTILLERY COMMUNICATION KIT

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| REPLACE ARTILLERY COMMUNICATION INSIDE CABLE (M577A2 ONLY)..... | 0662 00             |



---

**REPLACE ARTILLERY COMMUNICATION INSIDE CABLE (M577A2 ONLY)**

---

**0662 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0662 00-1).  
 Installation (page 0662 00-2).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)  
 Carrier blocked (see your -10)  
 Ramp lowered (see your -10)  
 Battery ground lead disconnected (WP 0294 00)

Tools and Special Tools

Adjustable Wrench (WP 0780 00, Item 87)  
 General Mechanic's Tool Kit (WP 0780 00, Item 29)

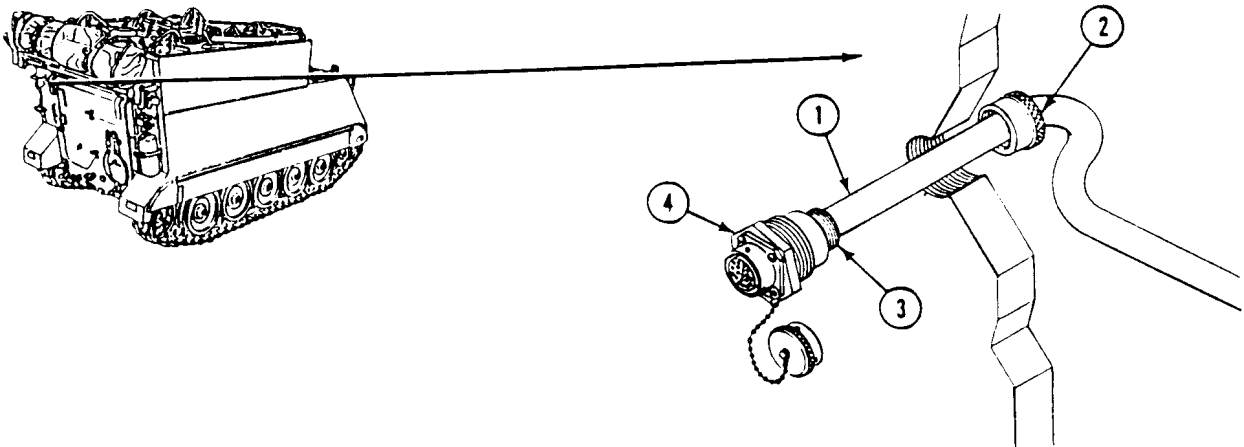
Personnel Required

Unit Mechanic

---

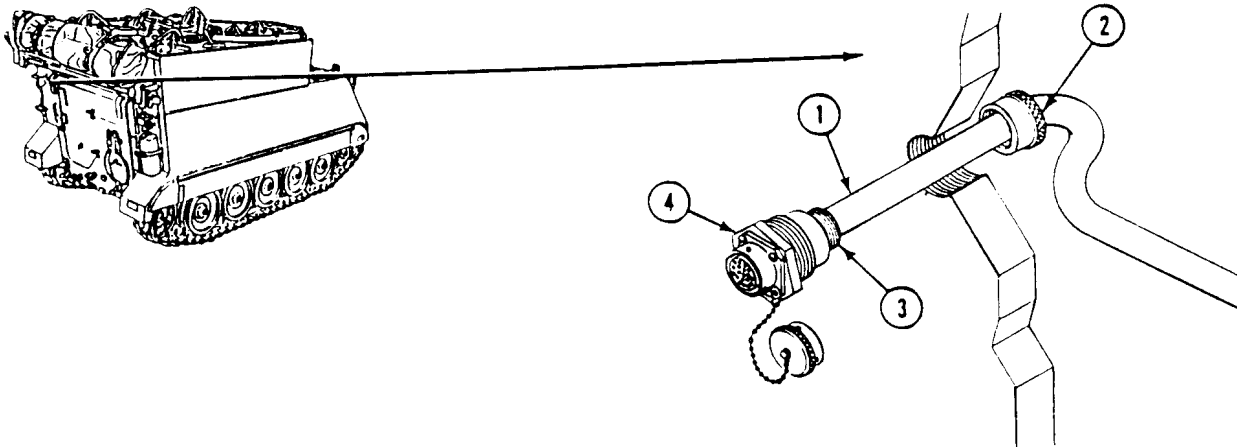
**REMOVAL**

1. Disconnect inside cable assembly (1) from artillery controls terminal board.
2. Remove retainer (2) from cable assembly connector (3).
3. Remove adapter (4) and cable assembly (1) from hull left rear plate threaded opening. Use adjustable wrench.



**INSTALLATION**

1. Install adapter (4) and cable assembly (1) in hull left rear plate threaded opening. Use adjustable wrench.
2. Install retainer (2) on cable assembly connector (3). Secure with retainer (2).
3. Connect inside cable (1) to artillery controls terminal board.

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Raise and lock ramp (see your -10).
3. Stop engine (see your -10).

**END OF TASK**

CHAPTER 38

UNIT MAINTENANCE INSTRUCTIONS  
FOR MACHINE GUN ARMOR SHIELD KIT

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| REPLACE COMMANDER'S CUPOLA ARMOR SHIELDS (M113A2, M1064, AND M1059 ONLY)..... | 0663 00             |
| REPLACE 7.62MM M60 MACHINE GUN PLATFORM MOUNT ASSEMBLY (M113A2 ONLY).....     | 0664 00             |
| REPLACE 30 CAL. GUN MOUNT ADAPTER ASSEMBLY .....                              | 0665 00             |
| REPLACE REAR GUN PINTLE SOCKET (M113A2 ONLY).....                             | 0666 00             |
| REPLACE GUN TRAVERSE RESTRICTOR.....  | 0667 00             |
| REPLACE REAR ARMOR SHIELDS (M113A2 ONLY).....                                 | 0668 00             |
| REPLACE REAR ARMOR SHIELD MOUNTING ARM LOCK ASSEMBLY AND MOUNT.....           | 0669 00             |





---

**REPLACE COMMANDER'S CUPOLA ARMOR SHIELDS (M113A2,  
M1064, AND M1059 ONLY)**

---

**0663 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0663 00-2).
  - Installation (page 0663 00-3).
- 

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Materials/Parts

Locknut

Lockwasher (4)

---

Traverse travel lock secured (see your -10)

REPLACE COMMANDER'S CUPOLA ARMOR SHIELDS (M113A2, M1064, AND M1059 ONLY) — Continued

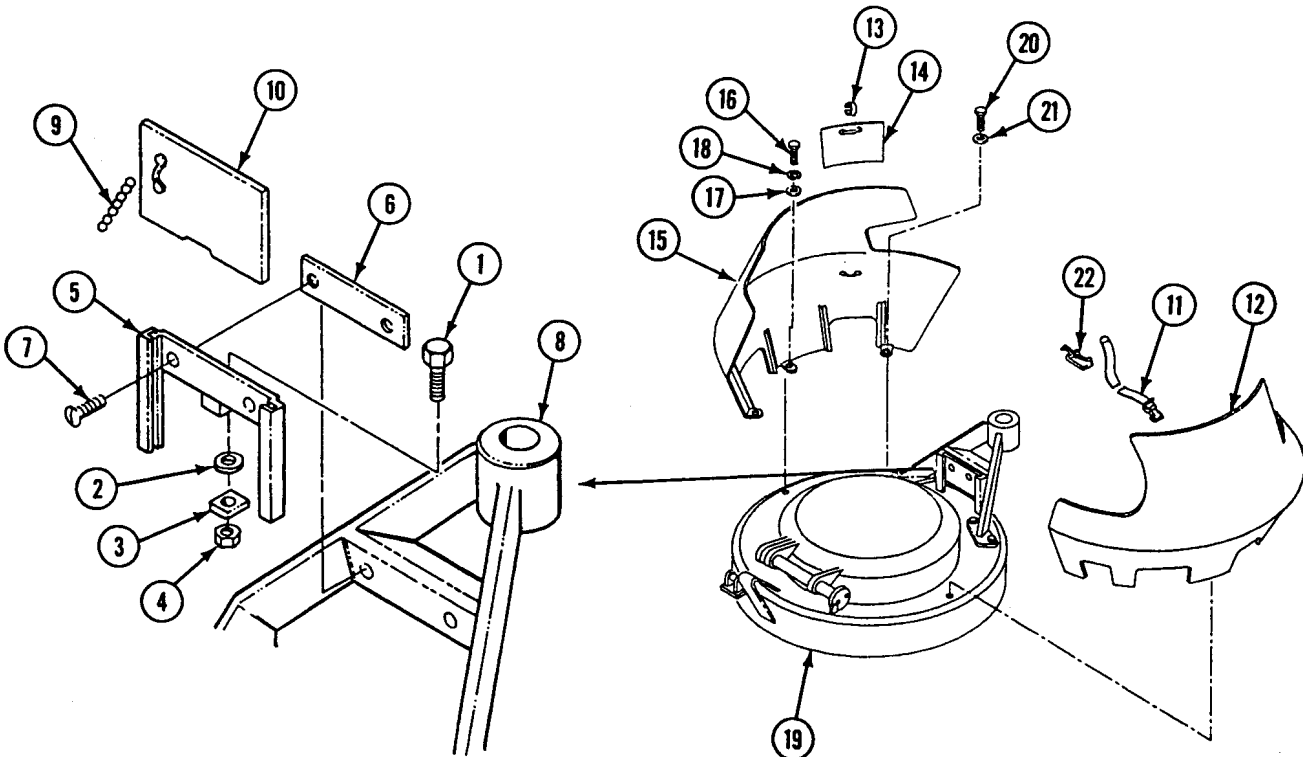
0663 00

REMOVAL

NOTE

Screws (16) and (20) are different lengths. Tag screws to ensure proper installation.

1. Remove screw (20) and washer (21) from first hole of each shield (12) and (15).
2. Remove four screws (16), washers (17), and lockwashers (18) from remaining holes in left and right shields (12) and (15). Discard lockwashers.
3. Remove two shields (12) and (15) from commander's cupola (19).
4. Release four clips (13) and remove four doors (14) from two shields (12) and (15).
5. If damaged, remove clip (13) from door (14).
6. Remove strap (11) from loop on right shield (12) and clamp (22) mounted on machine gun mount bracket.
7. Remove clamp (22) from lower bracket of machine gun handle.
8. Remove chain (9) and door (10) from bracket (5). Remove chain from door.
9. Remove two screws (7), bracket (5), and spacer (6) from gun mount (8).
10. Remove locknut (4), plate (3), washer (2), screw (1), and bracket (5). Discard locknut.



**REPLACE COMMANDER'S CUPOLA ARMOR SHIELDS (M113A2, M1064, AND M1059 ONLY) — Continued**

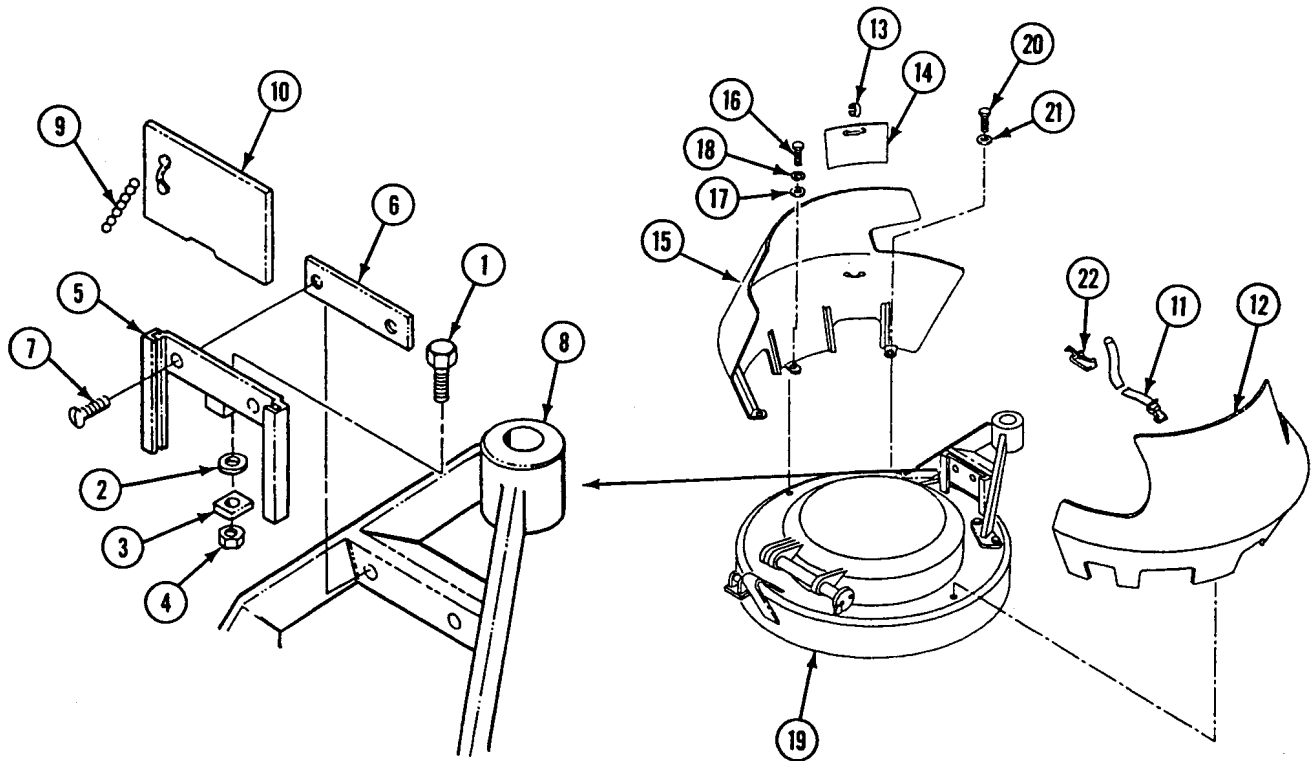
0663 00

**INSTALLATION**

**NOTE**

**Plate (3) must be able to turn freely. Do not over-tighten locknut (4).**

1. Install screw (1), washer (2), plate (3), and new locknut (4) on bracket (5).
2. Install spacer (6), bracket (5), and two screws (7) on gun mount (8).
3. Install chain (9) on bracket (5) and door (10). Deform ends of chain to secure chain on door and bracket.
4. Install clamp (22) on lower bracket of machine gun handle.
5. Install strap (11) through loop on right shield (12) and clamp (22) on machine gun handle. Tighten strap.
6. If removed, install clips (13) on doors (14). Deform ends of clip (13) over loops on doors (14).
7. Install four doors (14) on two shields (12) and (15).
8. Install the right and left shields (12) and (15), four screws (16), washers (17), and new lockwashers (18) on commander's cupola (19).
9. Install two screws (20) and washers (21) in first two holes of two shields (12) and (15).



**FOLLOW THROUGH STEPS**

1. Release traverse travel lock (see your -10).

**END OF TASK**



**REPLACE 7.62MM M60 MACHINE GUN PLATFORM MOUNT ASSEMBLY (M113A2 ONLY)**

**0664 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0664 00-1).
- Installation (page 0664 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

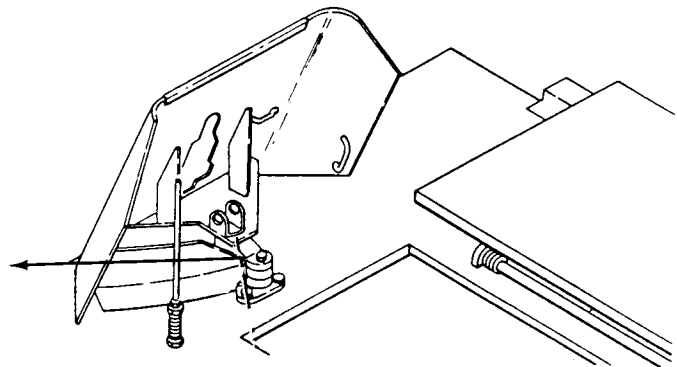
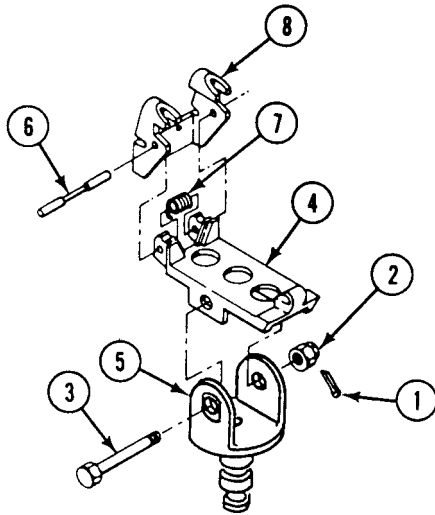
Carrier blocked (see your -10)

Materials/Parts

Cotter pin

**REMOVAL**

1. Remove cotter pin (1), nut (2), screw (3), and mount (4) from pintle (5). Discard cotter pin.
2. Remove pin (6), spring (7), and latch (8) from mount (4).



---

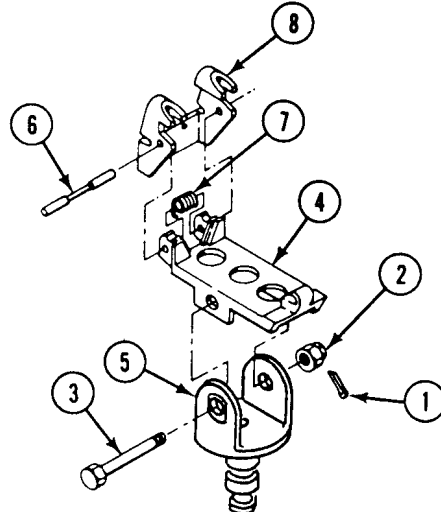
**REPLACE 7.62MM M60 MACHINE GUN PLATFORM MOUNT ASSEMBLY  
(M113A2 ONLY) — Continued**

---

0664 00

**INSTALLATION**

1. Install latch (8) and spring (7) on mount (4). Secure with pin (6).
2. Install mount (4) on pintle (5). Secure with screw (3), nut (2), and new cotter pin (1).

**END OF TASK**

**REPLACE 30 CAL. GUN MOUNT ADAPTER ASSEMBLY**

**0665 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0665 00-1).  
 Installation (page 0665 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

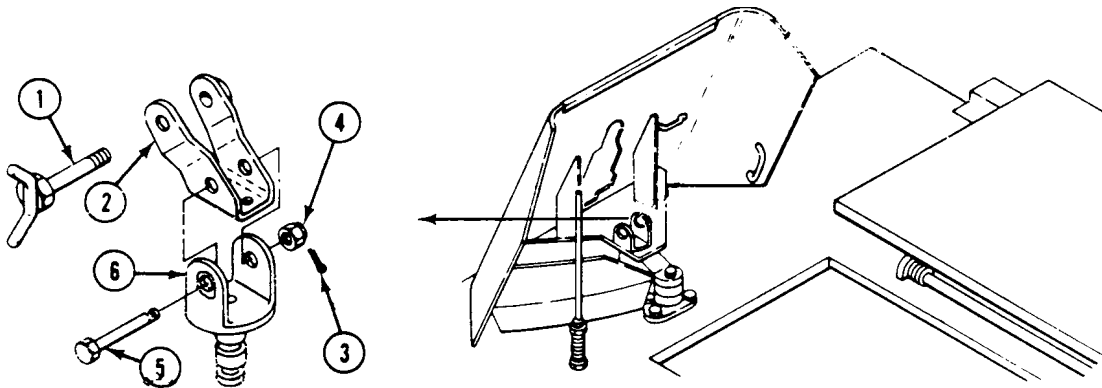
Carrier blocked (see your -10)

Materials/Parts

Cotter pin

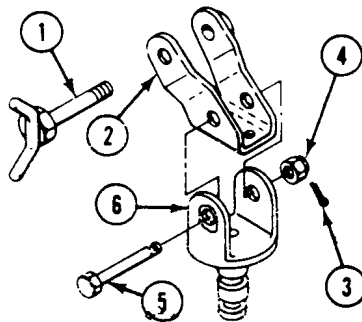
**REMOVAL**

1. Remove wing bolt (1) from adapter (2).
2. Remove cotter pin (3), nut (4), screw (5), and adapter (2) from pintle (6). Discard cotter pin.



**INSTALLATION**

1. Install adapter (2) on pintle (6). Secure with screw (5), nut (4), and new cotter pin (3).
2. Install wing bolt (1) in adapter (2).



**END OF TASK**





---

**REPLACE REAR GUN PINTLE SOCKET (M113A2 ONLY)**

---

**0666 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0666 00-1).  
 Installation (page 0666 00-2).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

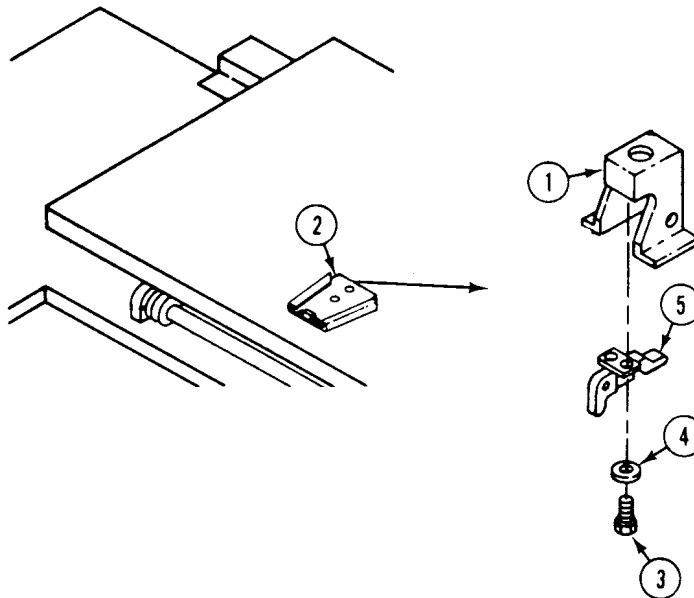
Personnel Required

Unit Mechanic

---

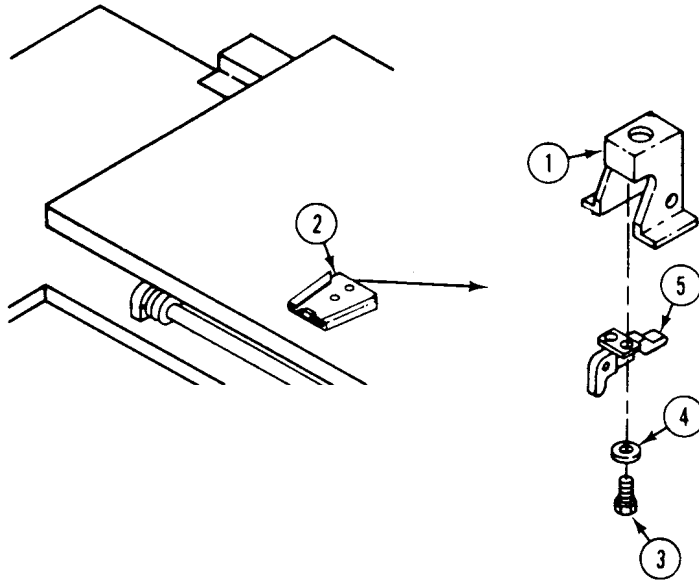
**REMOVAL**

1. Remove socket assembly (1) from mounting plate (2).
2. Remove two screws (3), washers (4), and lock assembly (5) from socket assembly (1).



**INSTALLATION**

1. Install lock assembly (5) on socket assembly (1). Secure with two washers (4) and screws (3).
2. Install socket assembly (1) in mounting plate (2).

**END OF TASK**

---

**REPLACE GUN TRAVERSE RESTRICTOR**

---

**0667 00****THIS WORK PACKAGE COVERS:**

Removal (page 0667 00-1).  
Installation (page 0667 00-2).

---

**INITIAL SETUP:**Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

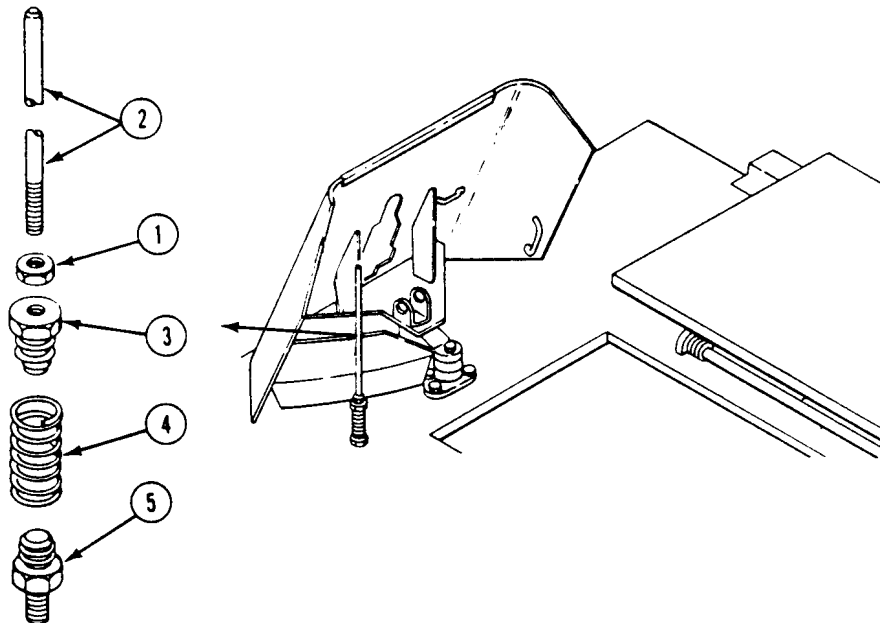
Personnel Required

Unit Mechanic

---

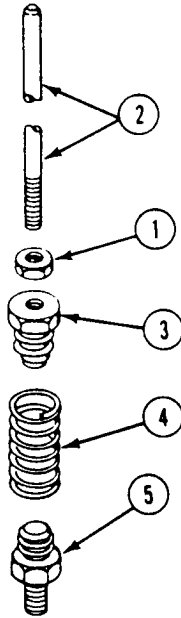
**REMOVAL**

1. Loosen nut (1) on rod (2). Remove rod from adapter (3).
2. Remove nut (1) from rod (2).
3. Remove adapter (3) from spring (4).
4. Remove spring (4) from adapter (5).
5. Remove adapter (5) from hull.



**INSTALLATION**

1. Install adapter (5) in hull.
2. Install spring (4) on adapter (5).
3. Install adapter (3) in spring (4).
4. Install nut (1) on rod (2).
5. Install rod (2) in adapter (3). Secure with nut (1).

**END OF TASK**

**REPLACE REAR ARMOR SHIELDS (M113A2 ONLY)**

**0668 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0668 00-1).  
 Installation (page 0668 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

References

WP 0667 00

Materials/Parts

Locknut (2)  
 Lockwasher (7)

Equipment Condition

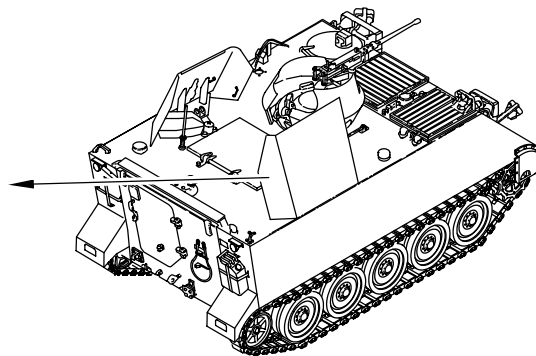
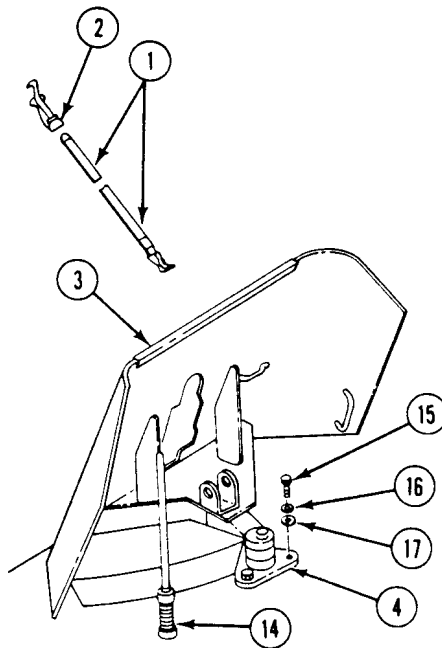
Engine stopped (see your -10)  
 Carrier blocked (see your -10)

**REMOVAL**

**NOTE**

**Both rear armor shields are removed and installed in the same way.**

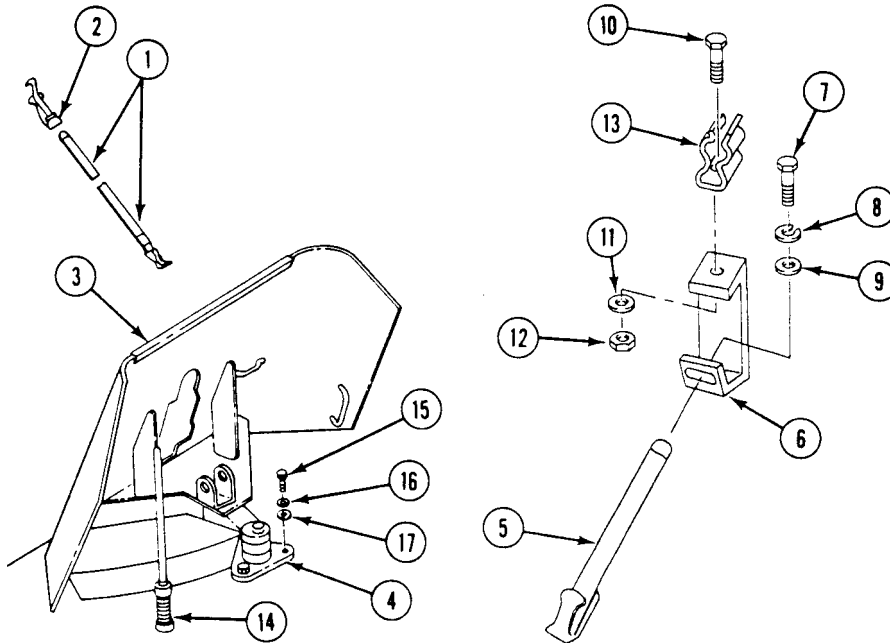
1. Remove two straps (1) and clamps (2) securing rear armor shield (3) to hull.
2. Release locking clamp on mounting arm (4). Remove rear armor shield (3) from mounting arm.



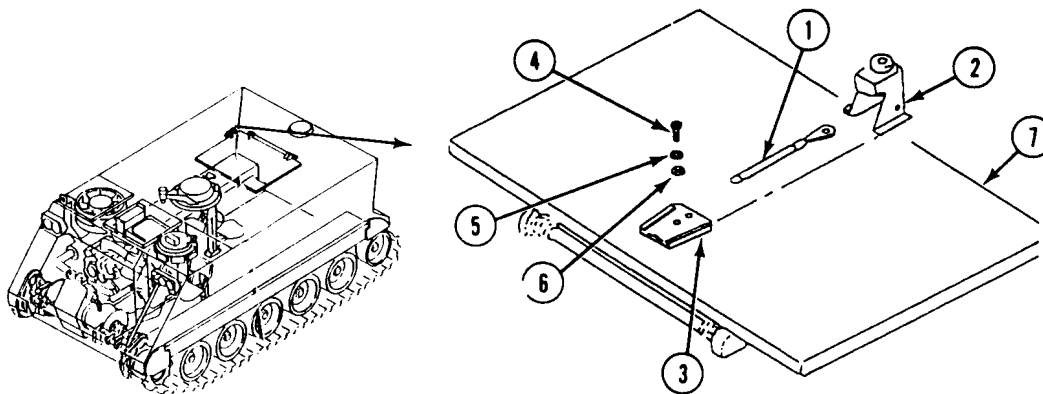
REPLACE REAR ARMOR SHIELDS (M113A2 ONLY) — Continued

0668 00

3. Remove strap (5) from bracket (6).
4. Remove two screws (7), lockwashers (8), flat washers (9), and bracket (6) from hull . Discard lockwashers.
5. If damaged, remove two screws (10), washers (11) locknuts (12), and clip (13) from bracket (6) Discard locknuts.
6. Remove gun traverse restrictor (14) from hull (WP 0667 00).
7. Remove three screws (15), lockwashers (16), flat washers (17), and mounting arm (4) from hull. Discard lockwashers.

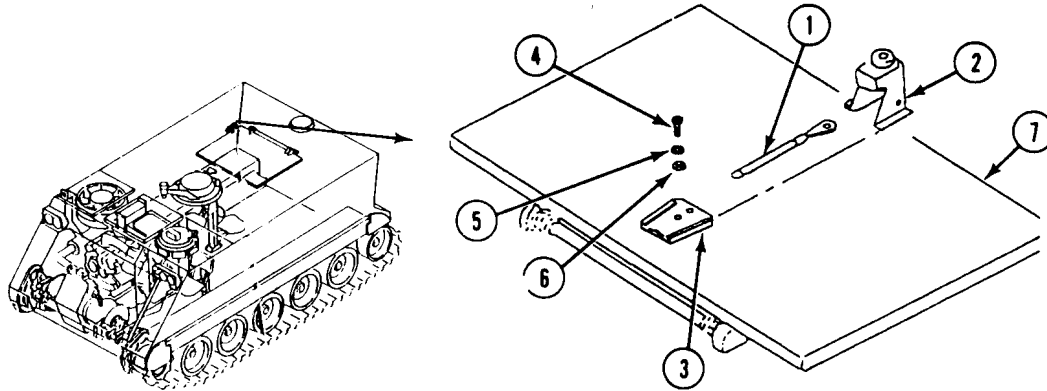


8. Remove strap (1) and pintle socket (2) from pintle mounting plate (3).
9. Remove two screws (4), lockwashers (5), flat washers (6), and pintle mounting plate (3) from cargo hatch cover (7). Discard lockwashers.

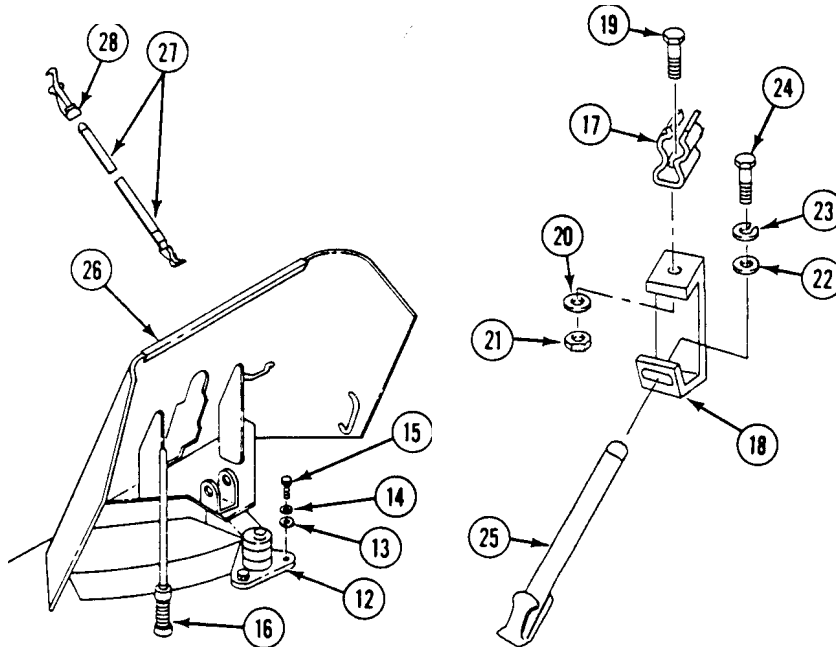


**INSTALLATION**

1. Install pintle mounting plate (3) on cargo hatch cover (7). Secure with two flat washers (6), new lockwashers (5), and screws (4).
2. Install pintle socket (2) on pintle mounting plate (3). Secure with strap (1).



3. Install mounting arm (12) on hull. Secure with three flat washers (13), new lockwashers (14), and screws (15).
4. Install gun traverse restrictor (16) in hull (WP 0667 00).
5. If removed, install clip (17) on bracket (18) with two screws (19), washers (20), and new locknuts (21).
6. Install bracket (18) on hull. Secure with two flat washers (22), new lockwashers (23), and screws (24).
7. Secure strap (25) to bracket (18).
8. Install rear armor shield (26) in mounting arm (12). Secure with mounting arm locking clamp.
9. Install rear armor shield (26) on hull. Secure with two straps (27) and clamps (28).



**END OF TASK**





**REPLACE REAR ARMOR SHIELD MOUNTING ARM LOCK ASSEMBLY AND MOUNT**

**0669 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0669 00-1).  
 Installation (page 0669 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Materials/Parts

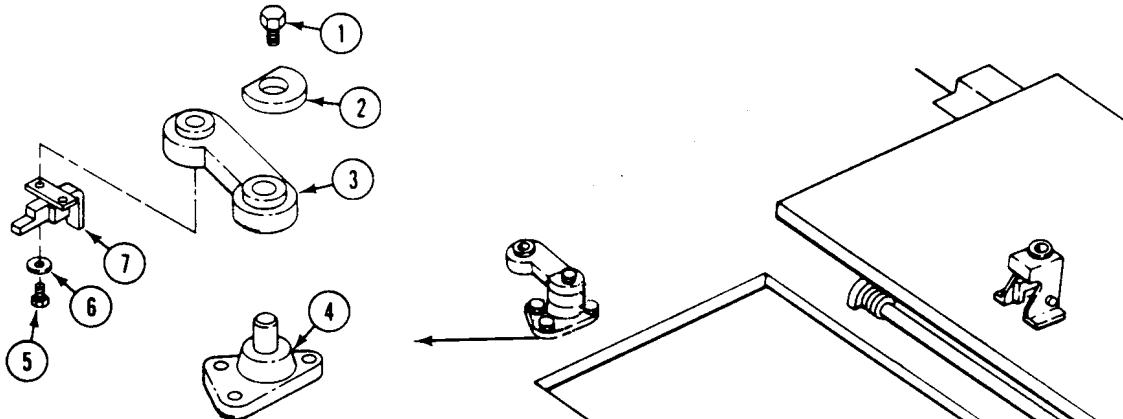
Lockwasher (2)

**REMOVAL**

**NOTE**

**Mounting arm is not a repairable at unit level.**

1. Remove screw (1), resilient mount (2), and mounting arm (3) from bracket (4).
2. Remove two screws (5), lockwashers (6), and lock assembly (7) from mounting arm (3). Discard lockwashers.



---

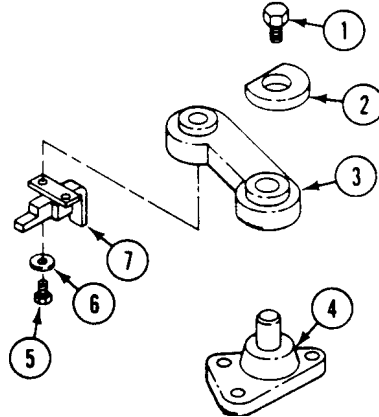
**REPLACE REAR ARMOR SHIELD MOUNTING ARM LOCK ASSEMBLY  
AND MOUNT — Continued**

---

0669 00

**INSTALLATION**

1. Install lock assembly (7) on mounting arm (3). Secure with two new lockwashers (6) and screws (5).
2. Install mount (2) and mounting arm (3) on bracket (4). Secure with screw (1).

**END OF TASK**

CHAPTER 39

UNIT MAINTENANCE INSTRUCTIONS  
FOR NBC KIT (ALL VEHICLES EXCEPT M1064)

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| REPLACE M13 NBC HEATER WIRING HARNESS (M577A2 ONLY).....  | .0670 00            |
| REPLACE M13 NBC FILTERS AND HOSES (M577A2 ONLY).....  | .0671 00            |
| REPLACE M13 NBC HEATERS AND MOUNTS (M577A2 ONLY).....   | .0672 00            |
| REPLACE M13 NBC FILTER SWITCH AND MOUNT BRACKET (M577A2 ONLY).....  | .0673 00            |
| REPLACE M3 NBC FILTER SWITCH AND MOUNT BRACKET (M577A2 ONLY).....   | .0674 00            |
| REPLACE M3 NBC HEATER CONTROL BOX (M577A2 ONLY).....  | .0675 00            |
| REPLACE M8A3 NBC CABLES, SWITCH ASSEMBLY, AND BRACKETS (M577A2 ONLY).....   | .0676 00            |
| REPLACE M8A3 NBC HOSES AND BRACKETS (M577A2 ONLY).....  | .0677 00            |
| REPLACE M8A3/M13 AIR PURIFIER/PRECLEANER AND FRAME (M577A2 ONLY).....   | .0678 00            |
| REPLACE M8A3/M13/M14 ORIFICE CONNECTOR ASSEMBLY, SUPPORT, AND QUICK<br>COUPLING HALF (M113A2, M1059, M577A2, AND M1068 ONLY)..... | .0679 00            |
| REPLACE M13 PRECLEANER AND FRAME (M1068 ONLY).....  | .0680 00            |
| REPLACE M13 NBC FILTERS AND HOSES (M1068 ONLY).....   | .0681 00            |
| REPLACE M13 NBC HEATER HOSES (M1068 ONLY).....  | .0682 00            |
| REPLACE M3 NBC HEATER CONTROL BOX (M1068 ONLY).....   | .0683 00            |
| REPLACE M13 NBC HEATER WIRING HARNESS (M1068 ONLY).....   | .0684 00            |
| REPLACE M3 NBC HEATER HOSES AND FITTINGS (M113A2 AMBULANCE ONLY).....   | .0685 00            |
| REPLACE M3 NBC FILTER SWITCH ASSEMBLY (M113A2 AMBULANCE ONLY).....  | .0686 00            |
| REPLACE M3 NBC HEATERS AND CONTROLLERS (M113A2 AMBULANCES ONLY).....  | .0687 00            |
| REPLACE M14 NBC HOSES AND BRACKETS (M113A2 AMBULANCE ONLY).....   | .0688 00            |
| REPLACE M8A3/M14 AIR PURIFIER AND FRAME (M113A2 ONLY).....  | .0689 00            |
| REPLACE M8A3/M14 NBC CABLES AND SWITCH ASSEMBLY (M113A2 ONLY).....  | .0690 00            |
| REPLACE M42 VENTILATED FACE MASK (VFM) HOSE ASSEMBLY .....  | .0691 00            |
| REPLACE ORIFICE CONNECTOR ASSEMBLY NBC EQUIPMENT .....  | .0692 00            |
| REPLACE M42 VENTILATED FACE MASK (VFM) GAS FILTER .....   | .0693 00            |
| REPLACE M42 VENTILATED FACE MASK (VFM) HEATER .....   | .0694 00            |



**REPLACE M13 NBC HEATER WIRING HARNESS (M577A2 ONLY)**

**0670 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0670 00-1).  
 Installation (page 0670 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Grommet

Locknut

Lockwasher (2)

Lockwasher (4)

Tie strap (AR)

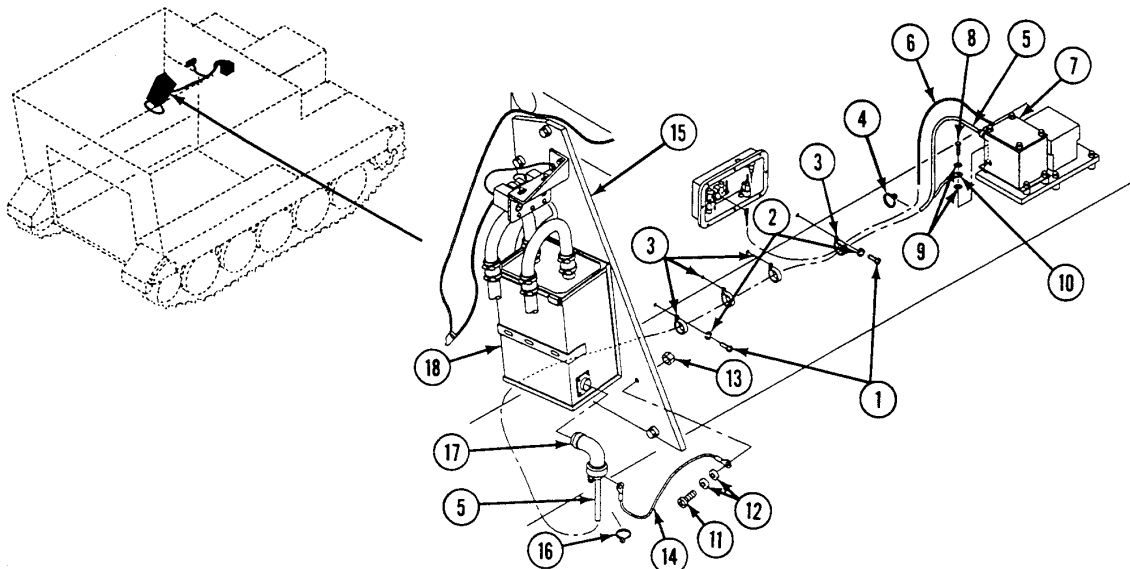
**REMOVAL**

1. Remove four screws (1), lockwashers (2), four clamps (3), and tie straps (4) from weldnuts in driver's compartment. Remove clamps from wiring harness (5) and cable (6). Discard lockwashers and tie straps.

**NOTE**

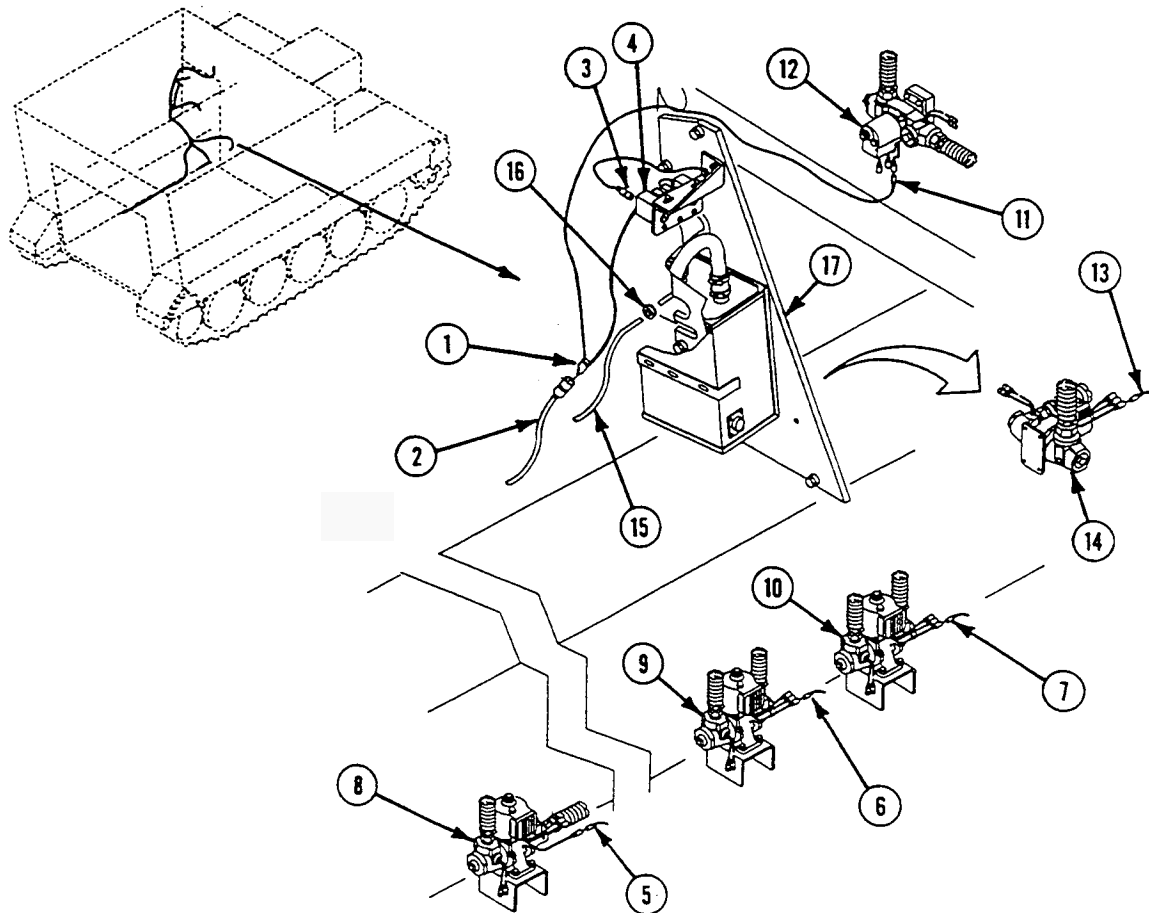
**Tag all leads and cables before removing.**

2. Disconnect wiring harness (5) from control box (7).
3. Remove screw (8), two lockwashers (9), and ground lead (10) from control box (7). Discard lockwashers.
4. Remove screw (11), two washers (12), locknut (13), and ground lead (14) from panel (15). Discard locknut.
5. Cut tie strap (16) from ground lead (14) and wiring harness (5). Discard tie strap.
6. Loosen screw on cable connector (17) and remove ground lead (14).
7. Remove cable connector (17) from air purifier (18).



**REPLACE M13 NBC HEATER WIRING HARNESS (M577A2 ONLY) — Continued****0670 00**

8. Remove lead 537A (1) from connector (2).
9. Remove lead 537B (3) from air filter switch (4).
10. Remove leads 537C (5), 537D (6), and 537E (7) from heaters (8), (9), and (10) respectively.
11. Remove lead 537G (11) from commander's heater (12) and connector (2).
12. Remove lead 579C (13) from driver's heater (14).
13. Cut and remove all tie straps along wiring harness (15) and adjacent wiring harness. Discard tie straps.
14. Cut grommet (16) and pull wiring harness (15) through hole in frame (17). Discard grommet.

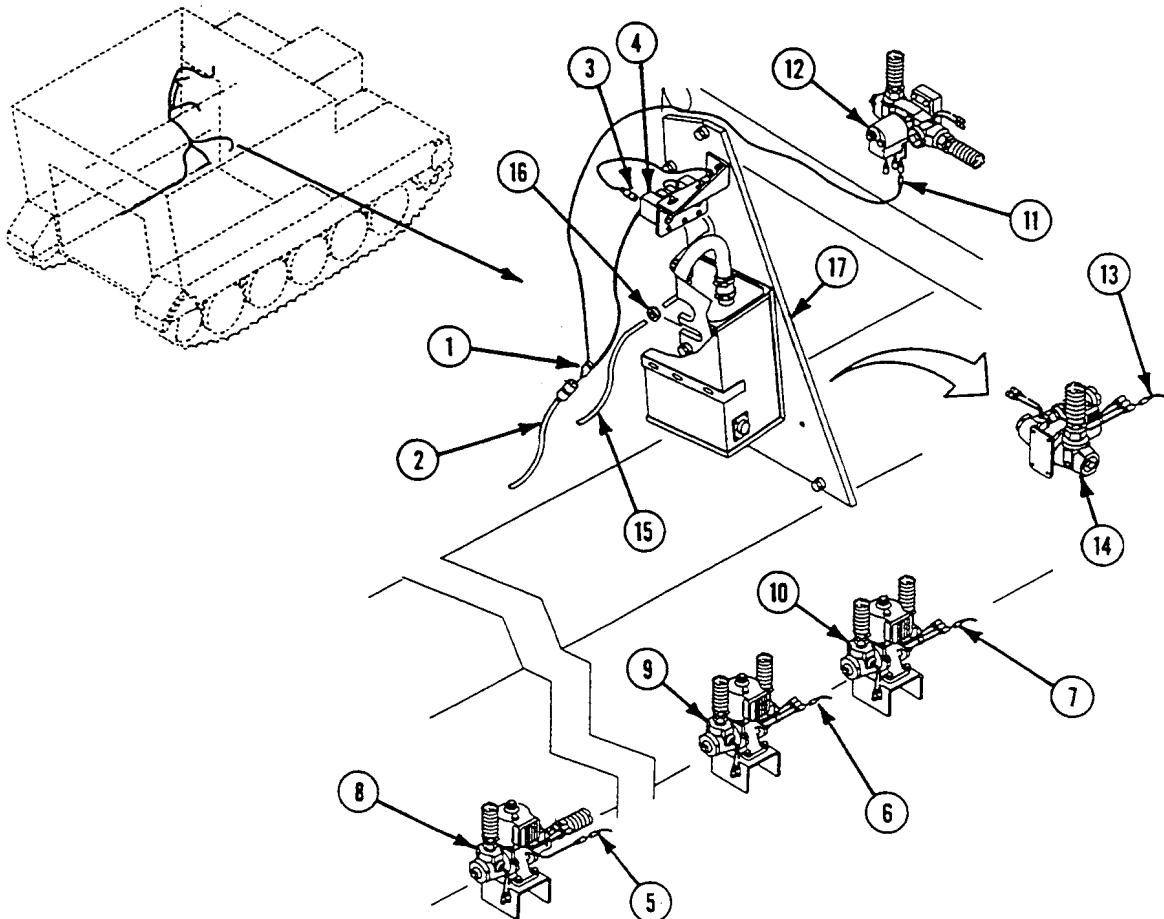


## INSTALLATION

## NOTE

Leads 579C and 537G must remain on driver's side of frame.

1. Install new grommet (16) on wiring harness (15). Route wiring harness through frame (17).
2. Install lead 579C (13) on driver's heater (14).
3. Install lead 537G (11) on commander's heater (12) and connector (2).
4. Install leads 537E (7), 537D (6), and 537C (5) on heaters (8), (9), and (10) respectively.
5. Install lead 537B (3) on air filter switch (4).
6. Install lead 537A (1) on connector (2).
7. Install new straps along wiring harness (15) and adjacent wiring harness as required.



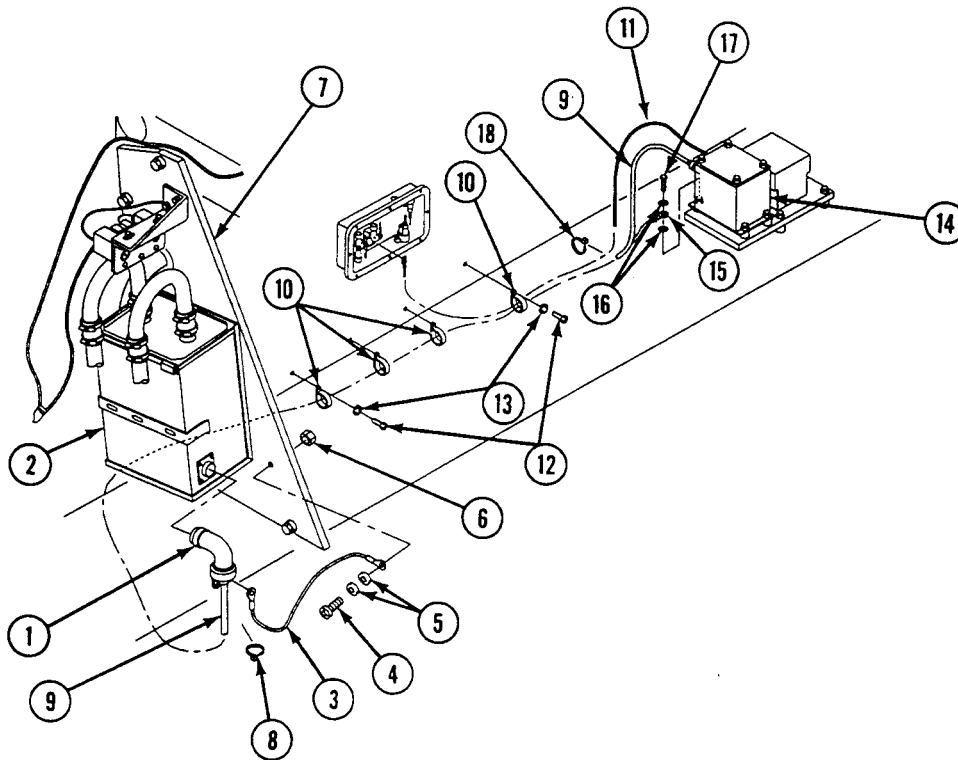


8. Install cable connector (1) on air purifier (2).
9. Install forked end of ground lead (3) on cable connector (1) and tighten screw on cable connector.

### NOTE

To ensure proper grounding, remove any paint from frame at ground point.

10. Install ground lead (3), screw (4), two washers (5), and new locknut (6) on panel (7).
11. Install new tie strap (8) on ground lead (3) and wiring harness (9).
12. In driver's compartment, install four clamps (10) on cable (11) and wiring harness (9).
13. Install four screws (12), new lockwashers (13), and four clamps (10) on weldnuts.
14. Connect wiring harness (9) to control box (14).
15. Install ground lead (15), two new lockwashers (16), and screw (17) on control box (14).
16. Install new tie straps (18) along cable (11) and adjacent wiring harness (9).



### FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0294 00).

### END OF TASK

---

**REPLACE M13 NBC FILTERS AND HOSES (M577A2 ONLY)**

---

**0671 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0671 00-2).  
 Installation (page 0671 00-8).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

Ramp lowered (see your -10)

Materials/Parts

Locknut (2)

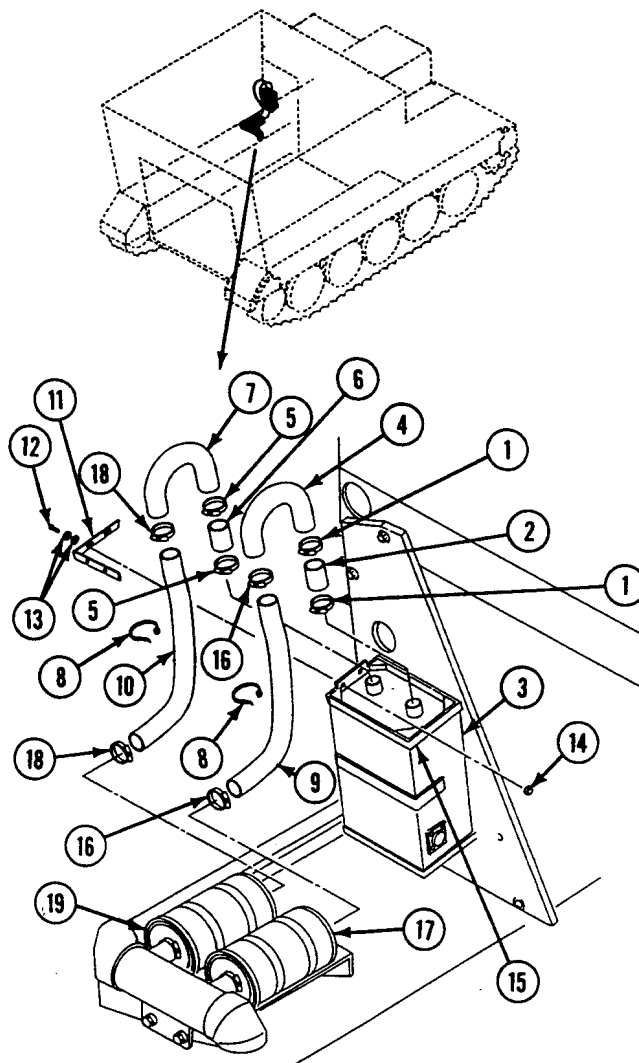
Lockwasher (3)

Tie strap (AR)

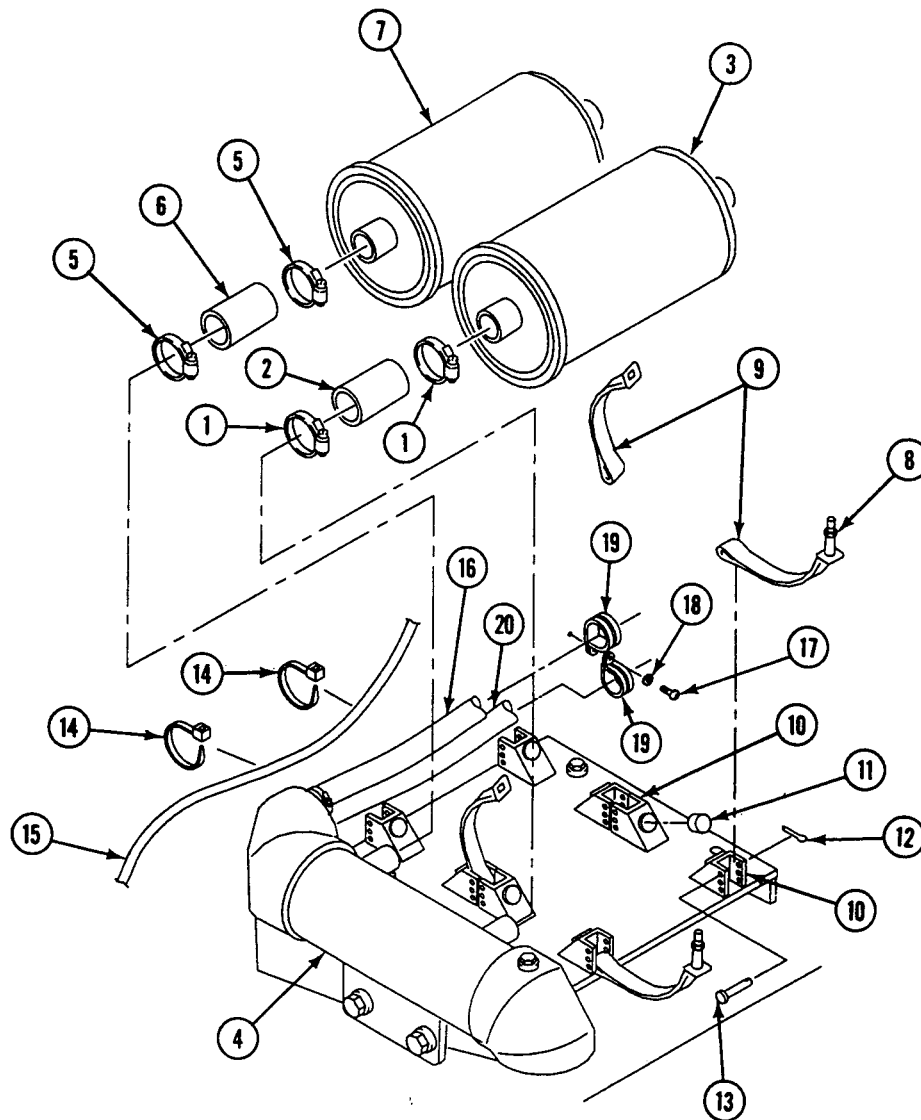
---

## REMOVAL

1. Loosen two clamps (1) and remove hose (2) from precleaner (3) and tube (4).
2. Loosen two clamps (5) and remove hose (6) from precleaner (3) and tube (7).
3. Cut tie straps (8) that secure hoses (9) and (10) to bracket (11). Discard tie straps.
4. If bracket (11) is damaged, remove two screws (12), four washers (13), two locknuts (14), and bracket from frame (15). Discard locknuts.
5. Loosen two clamps (16) and remove hose (9) from tube (4) and filter (17).
6. Loosen two clamps (18) and remove hose (10) from tube (7) and filter (19).



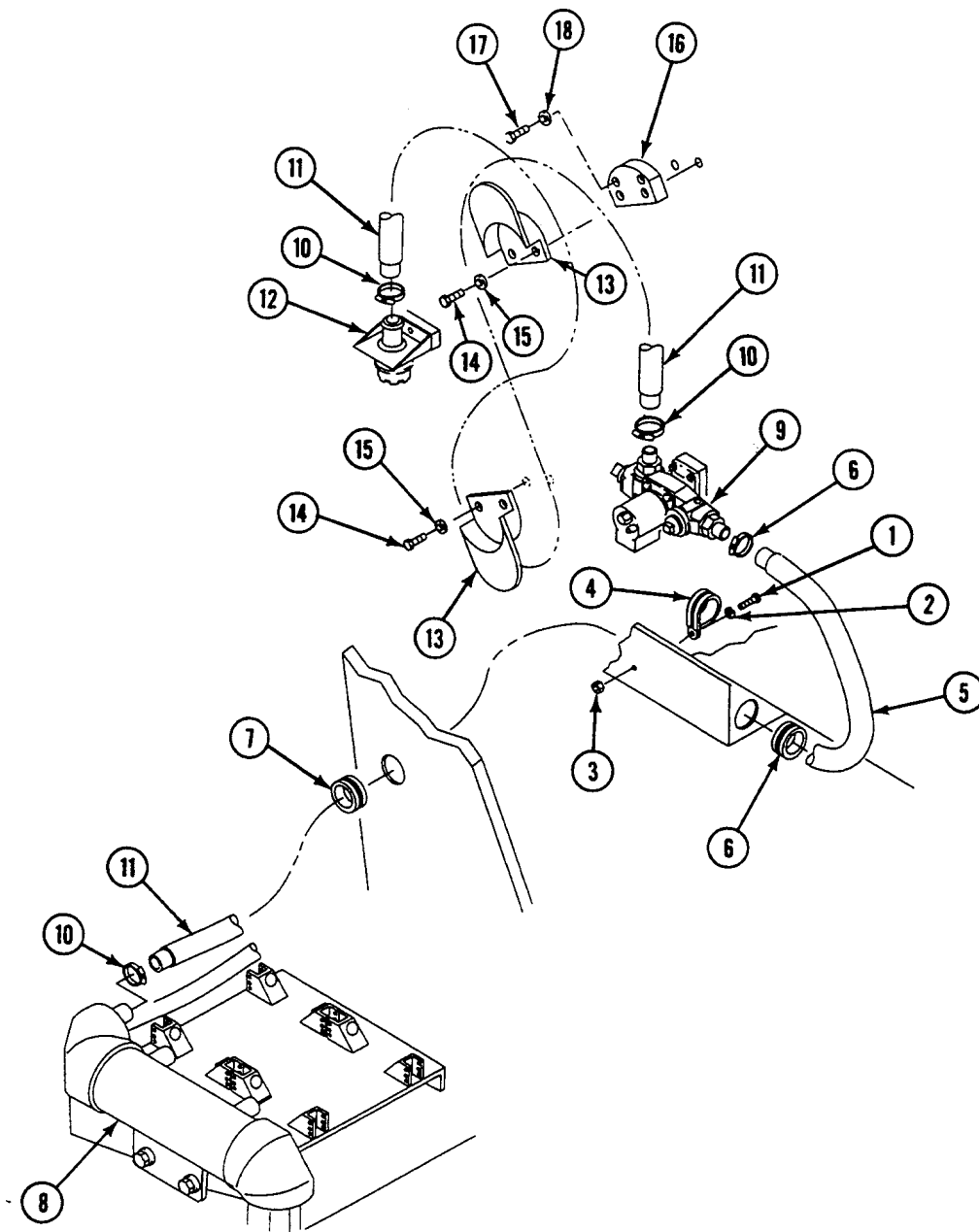
7. Loosen two clamps (1) and remove hose (2) from filter (3) and manifold (4).
8. Loosen two clamps (5) and remove hose (6) from filter (7) and manifold (4).
9. Loosen four nuts (8), open four clamps (9), and remove filters (3) and (7) from bracket (10).
10. If damaged, remove rubber bumpers (11) from bracket (10) as required. Discard rubber bumpers.
11. If any cotter pin (12) is damaged, remove cotter pin, straight pin (13), and clamps (9) from bracket (10) as required. Discard cotter pin.
12. Cut tie straps (14) that secure wiring harness (15) to hose (16) and manifold (4). Discard tie straps.
13. Remove screw (17), lockwasher (18), and two clamps (19) from side bulkhead. Remove clamps from hoses (16) and (20). Discard lockwasher.



REPLACE M13 NBC FILTERS AND HOSES (M577A2 ONLY) — Continued

0671 00

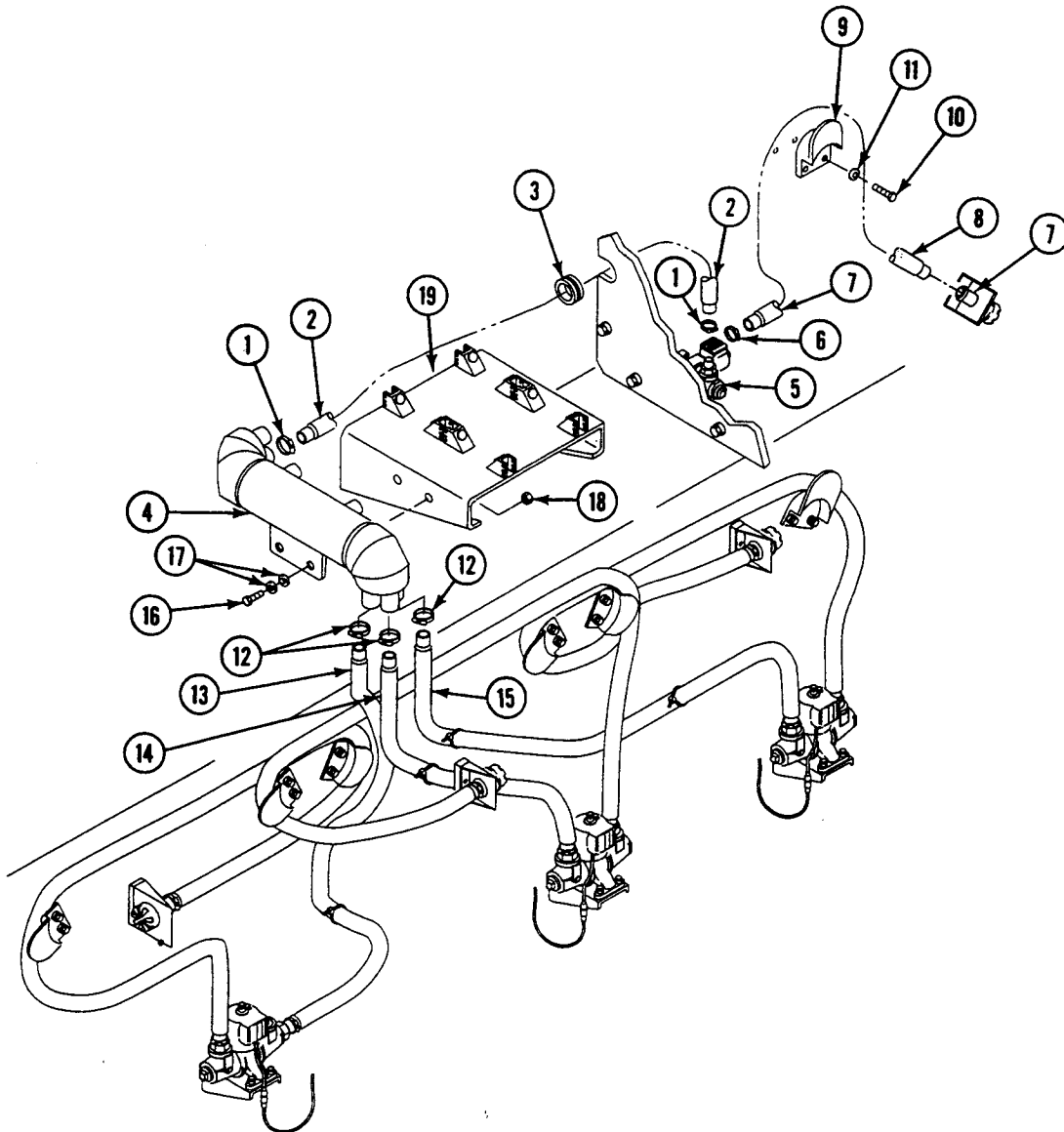
14. Remove two screws (1), lockwashers (2), nuts (3), and clamps (4) from upper bulkhead. Remove clamps from hose (5). Discard lockwashers.
15. Loosen two clamps (6) and remove hose (5) with two grommets (7) from manifold (8) and commander's heater (9).
16. If damaged, remove grommets (7) from hose (5), as required. Discard grommets.
17. Loosen two clamps (10) and remove hose (11) from commander's heater (9) and connector (12).
18. If either bracket (13) is damaged, remove two screws (14), lockwashers (15), and bracket from front bulkhead or spacer (16), as required. Discard lockwashers.
19. If spacer (16) is damaged, remove two screws (14), lockwashers (15), and bracket (13) from spacer, then remove two screws (17), lockwashers (18), and spacer from front bulkhead, as required. Discard lockwashers.



REPLACE M13 NBC FILTERS AND HOSES (M577A2 ONLY) — Continued

0671 00

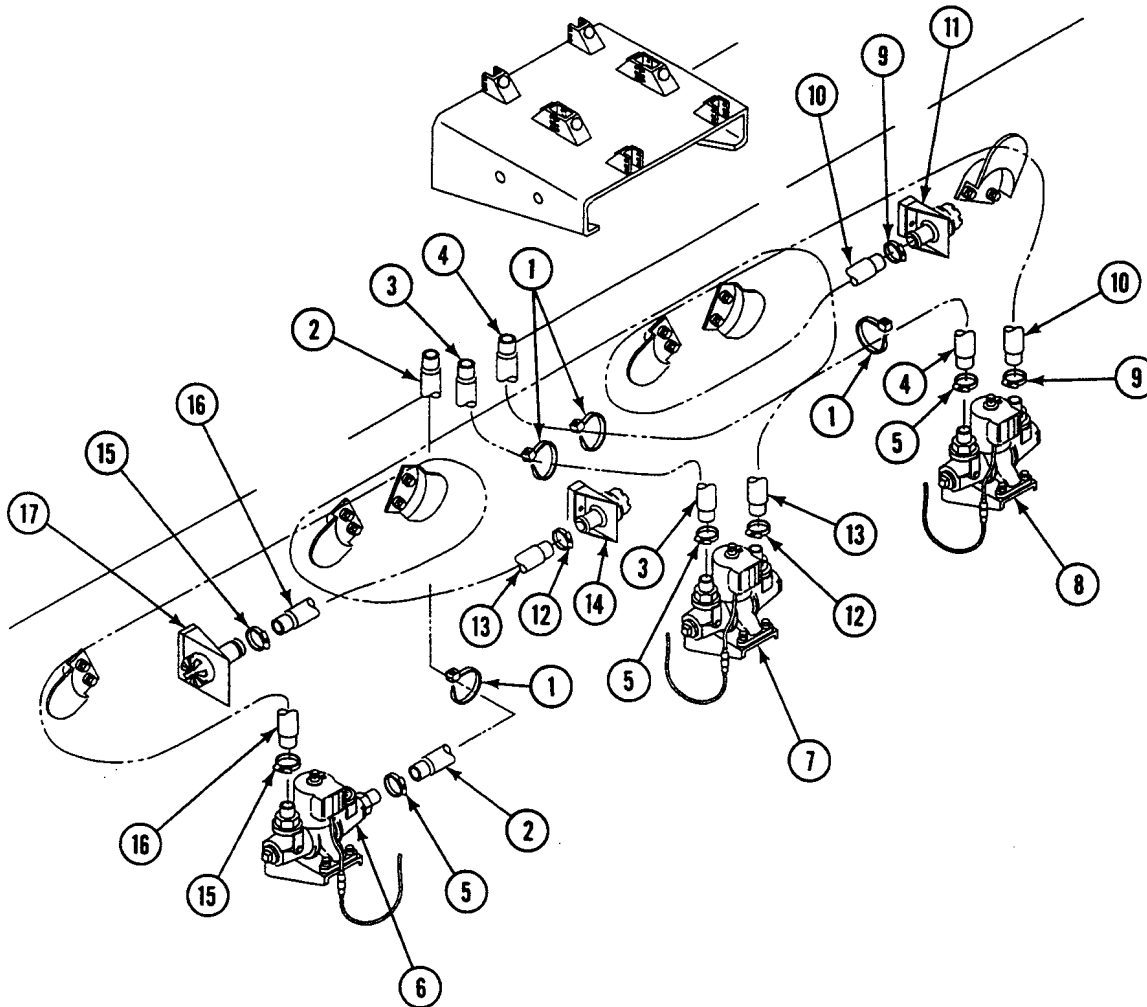
20. Loosen two clamps (1) and remove hose (2) with grommet (3) from manifold (4) and driver's heater (5).
21. If damaged, remove grommet (3) from hose (2). Discard grommet.
22. Loosen clamp (6) and remove hose (7) from driver's heater (5) and pull off connector (8).
23. If bracket (9) is damaged, remove two screws (10), washers (11), and bracket from front bulkhead.
24. Loosen three clamps (12) and remove three hoses (13), (14), and (15) from manifold (4).
25. Remove two screws (16), four washers (17), two locknuts (18), and manifold (4) from bracket (19). Discard locknuts.



REPLACE M13 NBC FILTERS AND HOSES (M577A2 ONLY) — Continued

0671 00

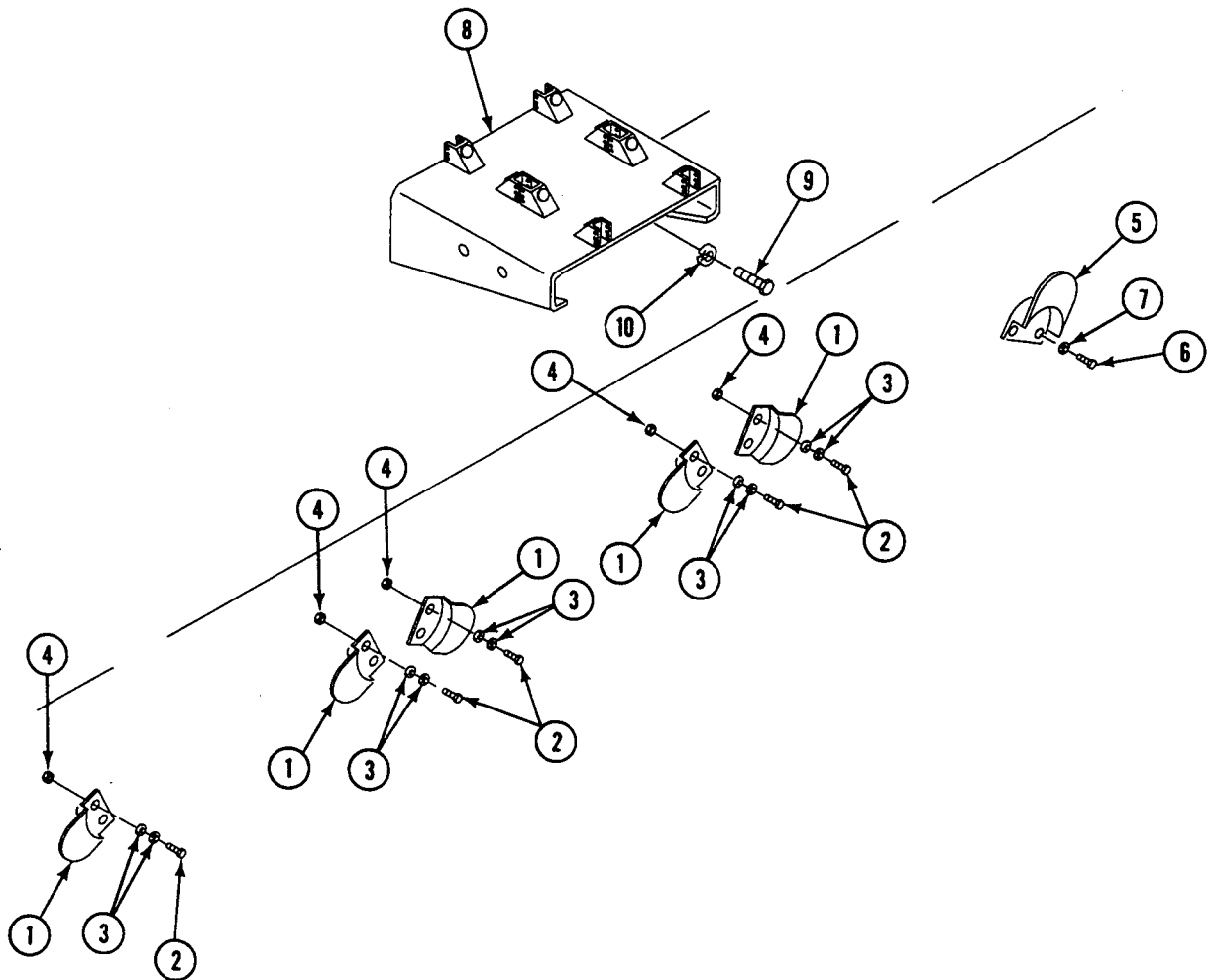
26. Cut tie straps (1) that secure wiring harness to hoses (2), (3), and (4). Discard tie straps.
27. Loosen three clamps (5) and remove three hoses (2), (3), and (4) from three heaters (6), (7), and (8) respectively.
28. Loosen two clamps (9) and remove hose (10) from heater (8) and connector (11).
29. Loosen two clamps (12) and remove hose (13) from heater (7) and connector (14).
30. Loosen two clamps (15) and remove hose (16) from heater (6) and connector (17).



REPLACE M13 NBC FILTERS AND HOSES (M577A2 ONLY) — Continued

0671 00

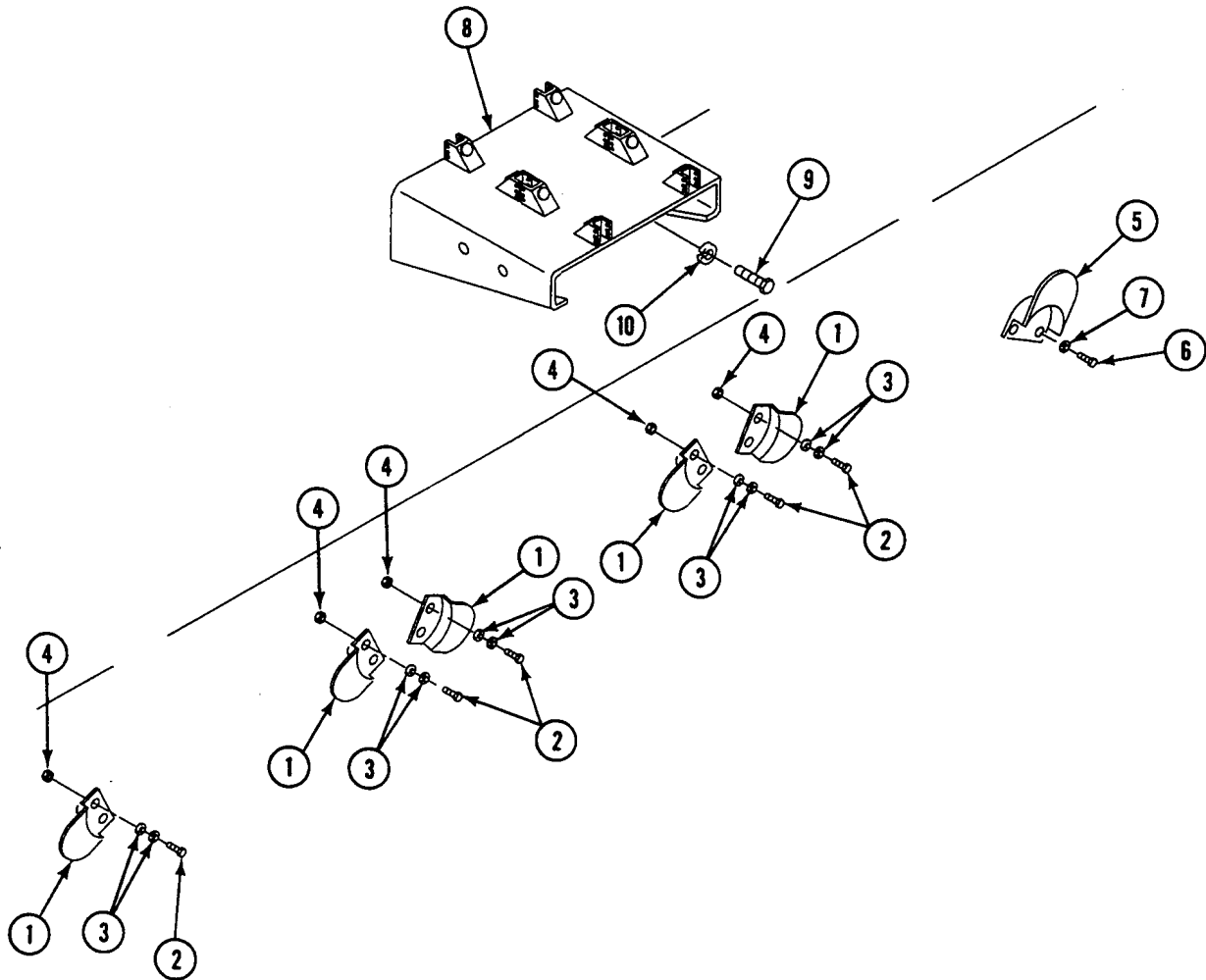
31. If any of five brackets (1) are damaged, remove two screws (2), four washers (3), and two locknuts (4) and bracket from table support. Discard locknuts.
32. If bracket (5) is damaged, remove two screws (6), washers (7), and bracket from sponson.
33. If bracket (8) is damaged, remove four screws (9), lockwashers (10), and bracket from bulkhead. Discard lockwashers.





**INSTALLATION**

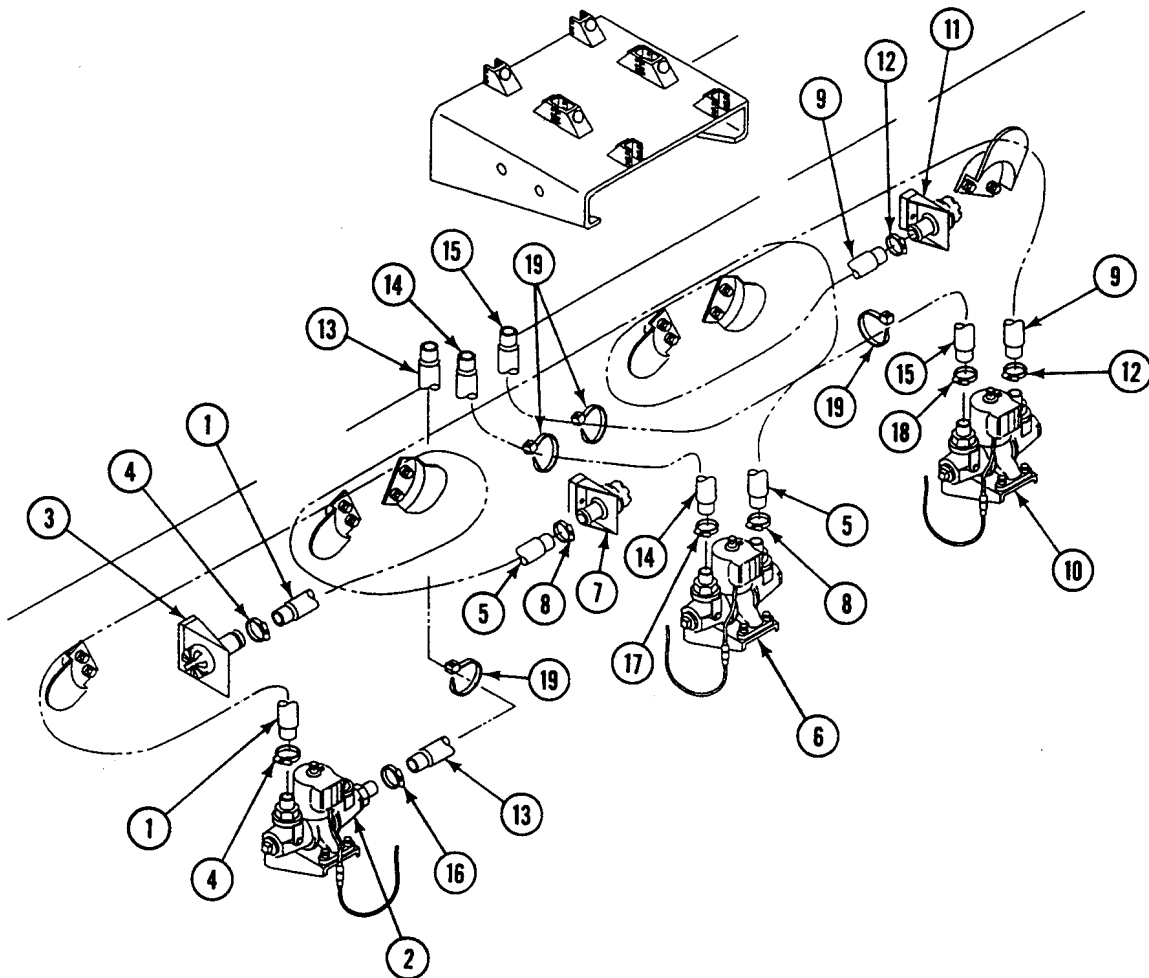
1. If bracket (8) was removed, install on bulkhead with four screws (9) and new lockwashers (10).
2. If bracket (5) was removed, install on sponson with two screws (6) and washers (7).
3. If any of five brackets (1) were removed, install on table support with two screws (2), four washers (3), and two new locknuts (4).



REPLACE M13 NBC FILTERS AND HOSES (M577A2 ONLY) — Continued

0671 00

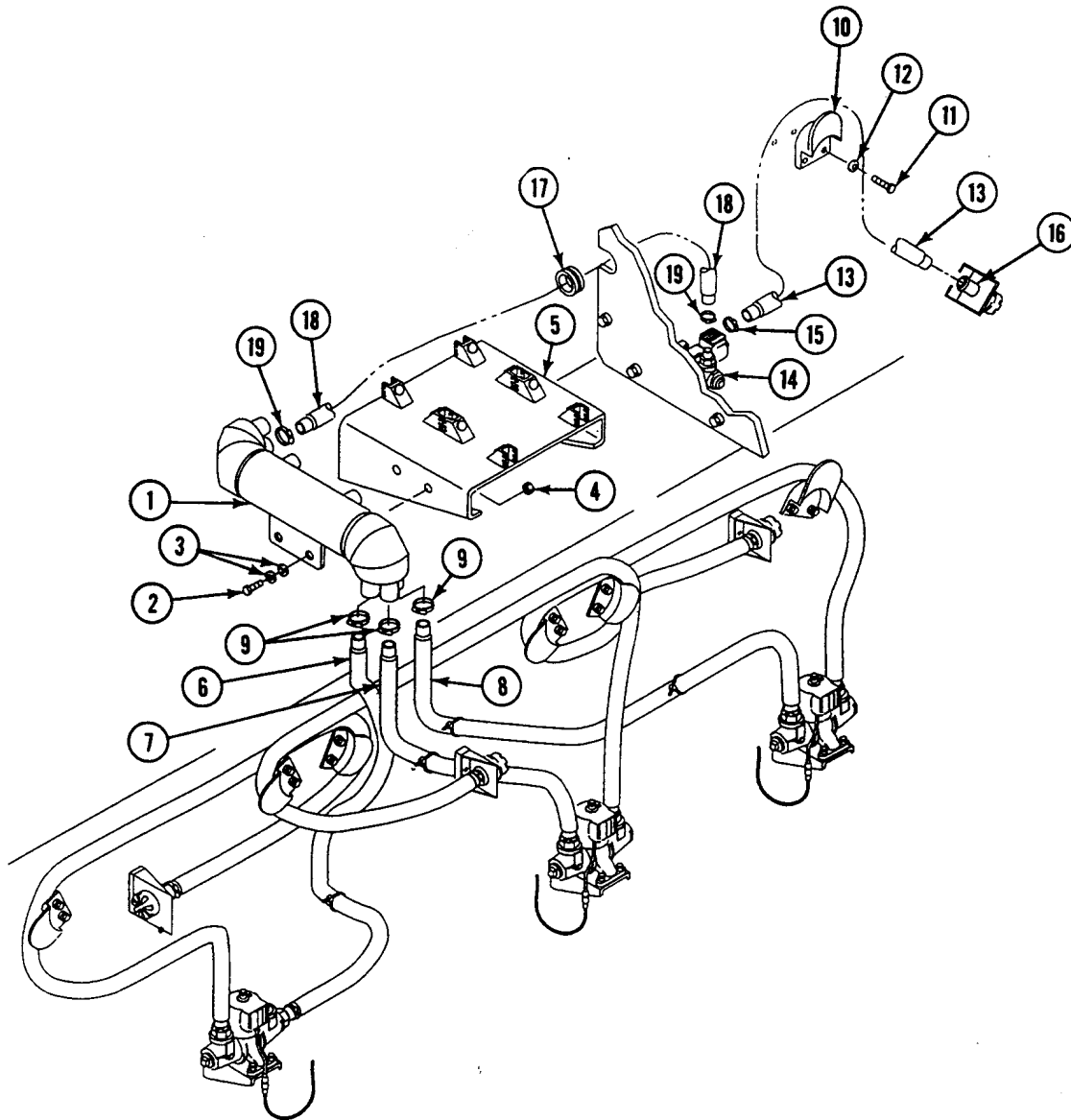
4. Install hose (1) on heater (2) and connector (3) and tighten two clamps (4).
5. Install hose (5) and on heater (6) and connector (7) and tighten two clamps (8).
6. Install hose (9) on heater (10) and connector (11) and tighten two clamps (12).
7. Install three hoses (13), (14), and (15) on heaters (2), (6) and (10) and tighten three clamps (16), (17), and (18), respectively.
8. Secure wiring harness to three hoses (13), (14), and (15) with new tie straps (19).



REPLACE M13 NBC FILTERS AND HOSES (M577A2 ONLY) — Continued

0671 00

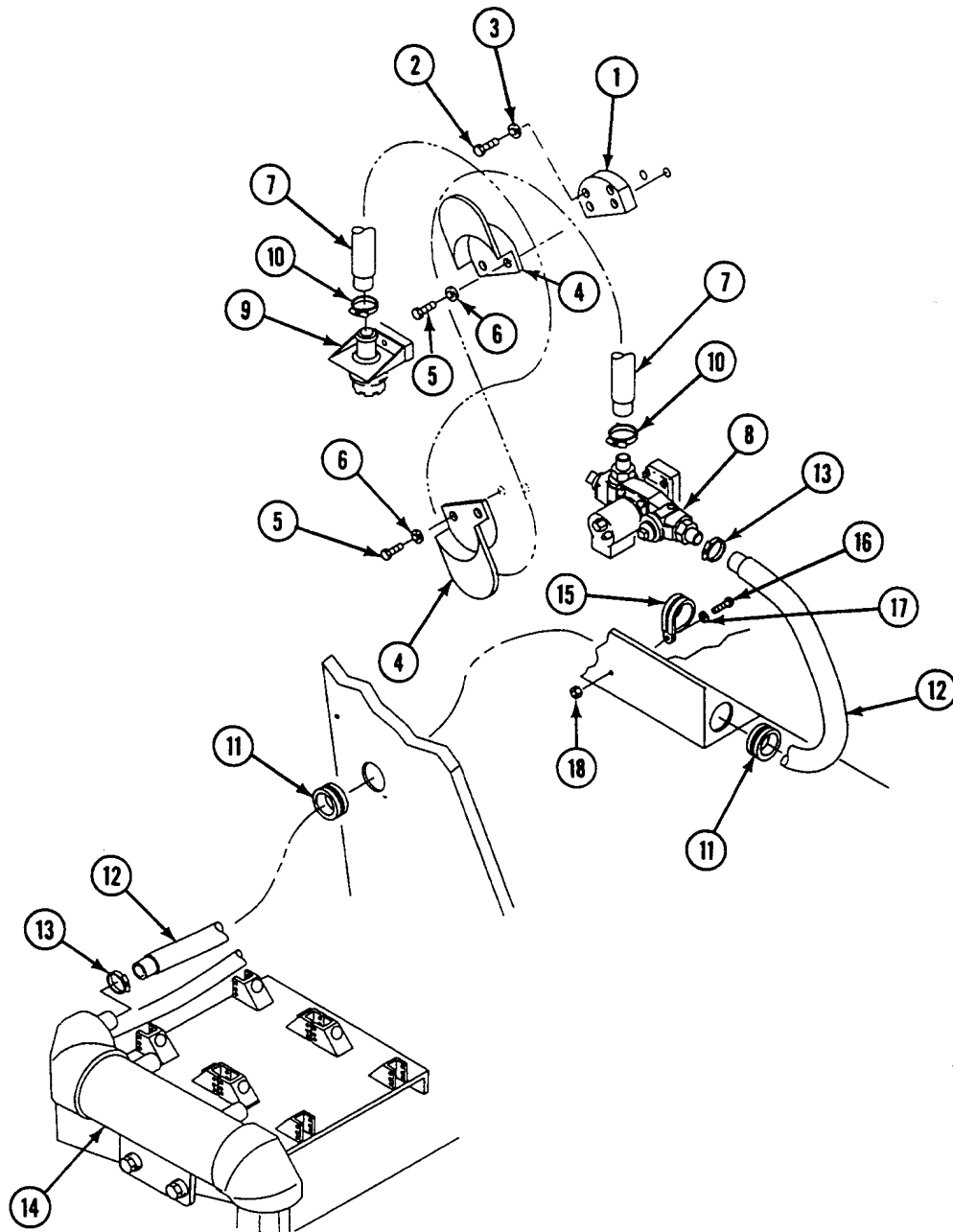
9. Install manifold (1), two screws (2), four washers (3), and two new locknuts (4) on bracket (5).
10. Install three hoses (6), (7), and (8) on manifold (1) and tighten three clamps (9).
11. If bracket (10) was removed, install on front bulkhead with two screws (11) and washers (12).
12. Install hose (13) on driver's heater (14), and tighten clamp (15), then push on connector (16).
13. If removed, install new grommet (17) on hose (18).
14. Install hose (18) and grommet (17) on manifold (1) and driver's heater (14) and tighten two clamps (19).



REPLACE M13 NBC FILTERS AND HOSES (M577A2 ONLY) — Continued

0671 00

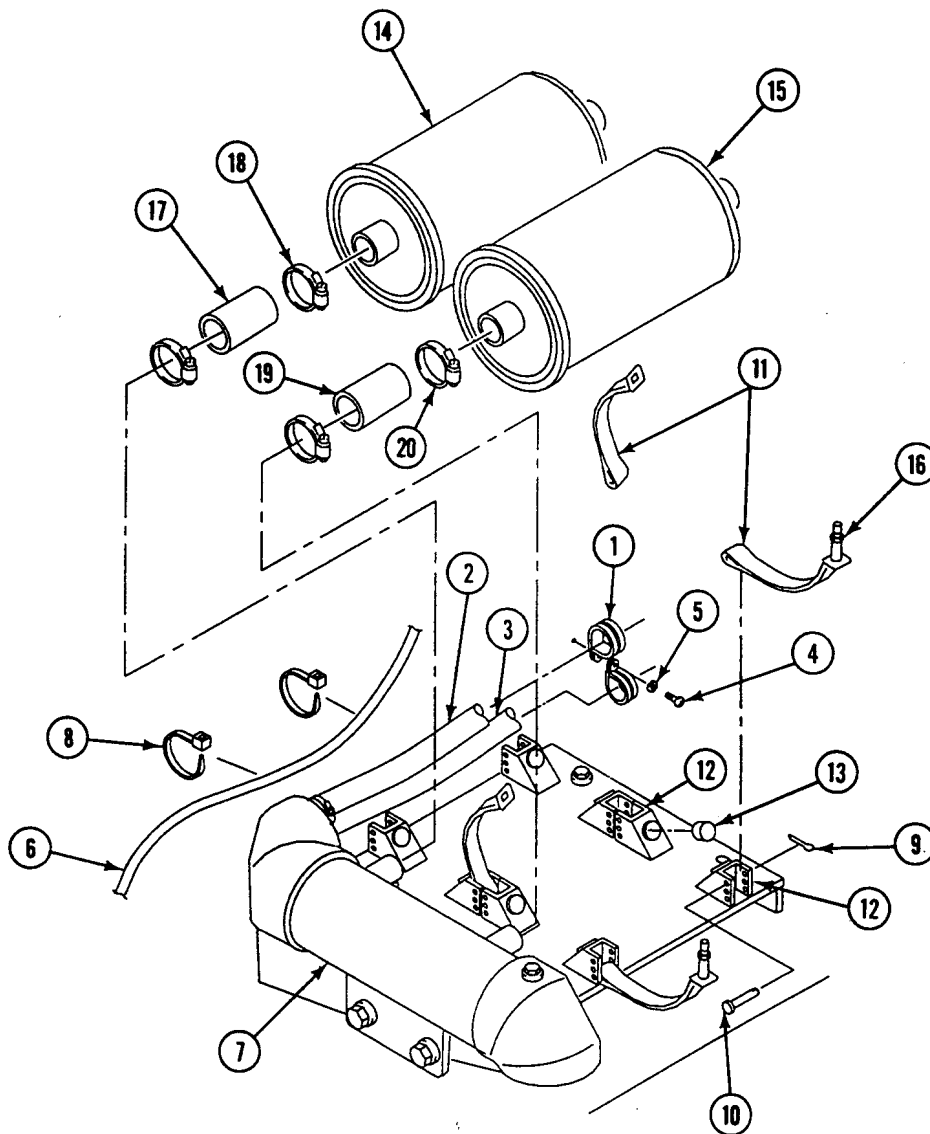
15. If spacer (1) was removed, install on front bulkhead with two screws (2) and new lockwashers (3).
16. If either bracket (4) was removed, install on front bulkhead or spacer (1), as required, with two screws (5) and new lockwashers (6).
17. Install hose (7) on commander's heater (8) and connector (9) and tighten two clamps (10).
18. If removed, install new grommets (11) on hose (12), as required.
19. Install hose (12), two clamps (13), and grommets (11) on manifold (14) and commander's heater (8). Insert grommets in frame. Tighten clamps.
20. Install two clamps (15) on hose (12). Secure clamps to upper bulkhead with two screws (16), new lockwashers (17), and two nuts (18).



REPLACE M13 NBC FILTERS AND HOSES (M577A2 ONLY) — Continued

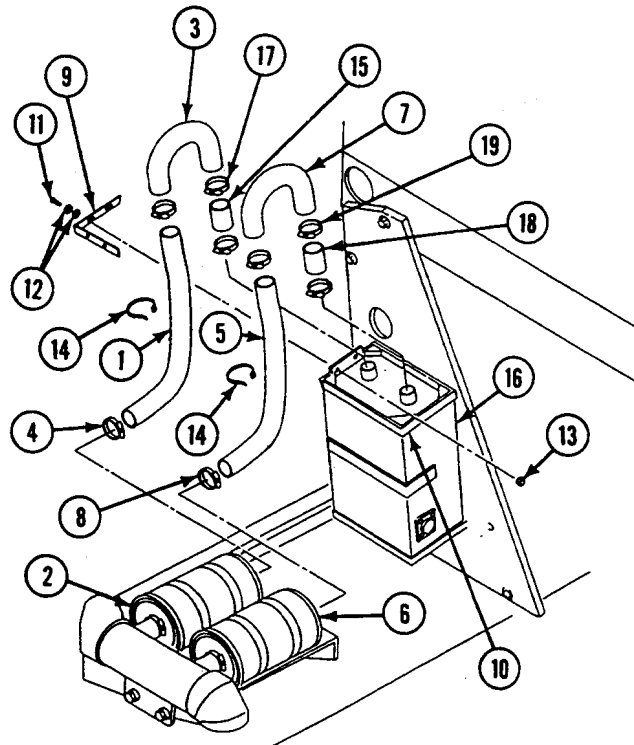
0671 00

21. Install two clamps (1) on hoses (2) and (3). Secure clamps to side bulkhead with screw (4) and new lockwasher (5).
22. Secure wiring harness (6) to hose (2) and manifold (7) with new tie straps (8).
23. If removed, install new cotter pins (9), straight pins (10), and clamps (11) on bracket (12).
24. If missing or removed, install new rubber bumpers (13) on bracket (12), as required.
25. Install filters (14) and (15) on brackets (12) and tighten nuts (16) on four clamps (11).
26. Install hose (17) on filter (14) and manifold (7) and tighten two clamps (18).
27. Install hose (19) on filter (15) and manifold (7) and tighten two clamps (20).



**REPLACE M13 NBC FILTERS AND HOSES (M577A2 ONLY) — Continued****0671 00**

28. Install hose (1) on filter (2) and tube (3) and tighten two clamps (4).
29. Install hose (5) on filter (6) and tube (7) and tighten two clamps (8).
30. If bracket (9) was removed, install on frame (10). Secure with two screws (11), four washers (12), and two new locknuts (13).
31. Secure hoses (1) and (5) to bracket (9) with new tie straps (14).
32. Install hose (15) on precleaner (16) and tube (3) and tighten two clamps (17).
33. Install hose (18) on precleaner (16) and tube (9) and tighten two clamps (19).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Raise and lock ramp (see your -10).
3. Stop engine (see your -10).
4. Check air flow of NBC system. See TM 3-6680-316-10.

**END OF TASK**



---

**REPLACE M13 NBC HEATERS AND MOUNTS (M577A2 ONLY)**

---

**0672 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0672 00-2).  
 Installation (page 0672 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground leads disconnected (WP 0294 00)

Materials/Parts

Locknut (2)

Locknut (4)

Locknut (2)

Locknut (6)

Locknut (4)

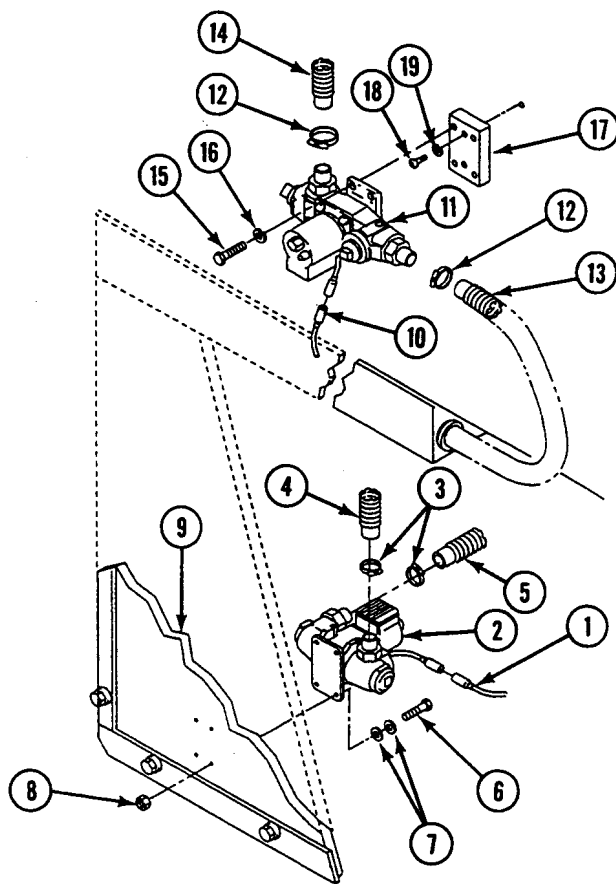
Lockwasher (4)

---



**REMOVAL**

1. Disconnect circuit 579C lead (1) from driver's heater (2).
2. Loosen two clamps (3) and remove inlet and outlet hoses (4) and (5) from driver's heater (2).
3. Remove four screws (6), eight washers (7), four locknuts (8), and driver's heater (2) from frame (9). Discard locknuts.
4. Disconnect circuit 537G lead (10) from commander's heater (11).
5. Loosen two clamps (12) and remove inlet and outlet hoses (13) and (14) from commander's heater (11).
6. Remove four screws (15), lockwashers (16), and commander's heater (11) from support bracket (17). Discard lockwashers.
7. If support bracket (17) is damaged, remove two screws (18), lockwashers (19), and support from forward bulkhead. Discard lockwashers.

**NOTE**

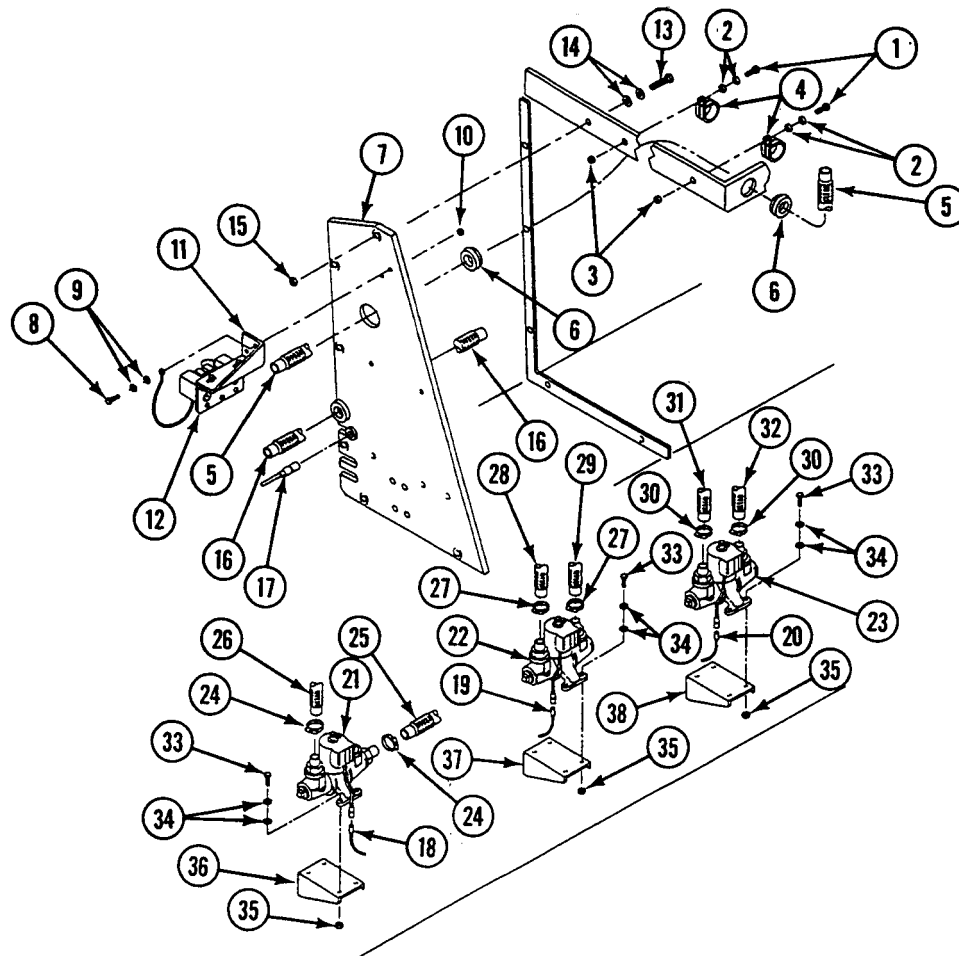
If removing frame, see WP 0678 00.

8. Remove two screws (1), four washers (2), two locknuts (3), and clamps (4) from crossbeam. Remove clamps from hose (5). Discard locknuts.
9. Remove hose (5) with two grommets (6) from frame (7).
10. If either grommet (6) is damaged, remove damaged grommet from hose (5). Discard grommet.

REPLACE M13 NBC HEATERS AND MOUNTS (M577A2 ONLY) — Continued

0672 00

11. Remove two screws (8), four washers (9), two locknuts (10), and bracket (11) with switch assembly (12) from frame (7). Discard locknuts.
12. Remove six screws (13), 12 washers (14), six locknuts (15), and frame (7) from welded molding. Discard locknuts.
13. Remove hose (16) and circuit 579C lead (17) from frame (7).
14. Remove circuit 537E, 537D, and 537C leads (18), (19), and (20) from operator's heaters (21), (22), and (23) respectively.
15. Loosen two clamps (24) and remove inlet and outlet hoses (25) and (26) from heater (21).
16. Loosen two clamps (27) and remove inlet and outlet hoses (28) and (29) from heater (22).
17. Loosen two clamps (30) and remove inlet and outlet hoses (31) and (32) from heater (23).
18. Remove four screws (33), eight washers (34), and four locknuts (35) from each operator's heater (21), (22), and (23). Discard locknuts.
19. Remove heaters from welded mounts (36), (37), and (38).



**INSTALLATION**

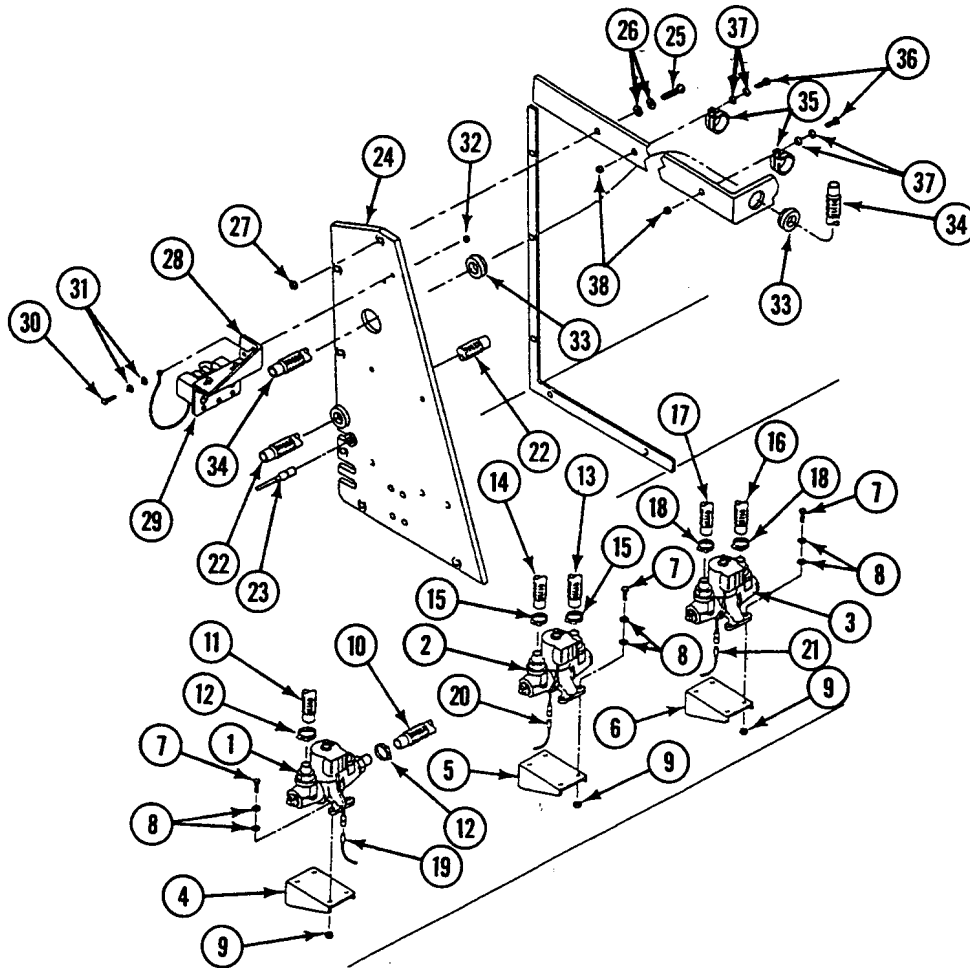
1. Install operator's heaters (1), (2), and (3) on welded mounts (4), (5), and (6). Secure each heater with four screws (7), eight washers (8), and four new locknuts (9).
2. Install inlet and outlet hoses (10) and (11) and two clamps (12) on operator's heater (1). Tighten clamps.
3. Install inlet and outlet hoses (13) and (14) and two clamps (15) on operator's heater (2). Tighten clamps.
4. Install inlet and outlet hoses (16) and (17) and two clamps (18) on operator's heater (3). Tighten clamps.
5. Install circuit 537C lead (19) on operator's heater (1), circuit 537D lead (20) on operator's heater (2), and circuit 537E lead (21) on operator's heater (3).

**NOTE**

**If frame was removed, see WP 0678 00.**

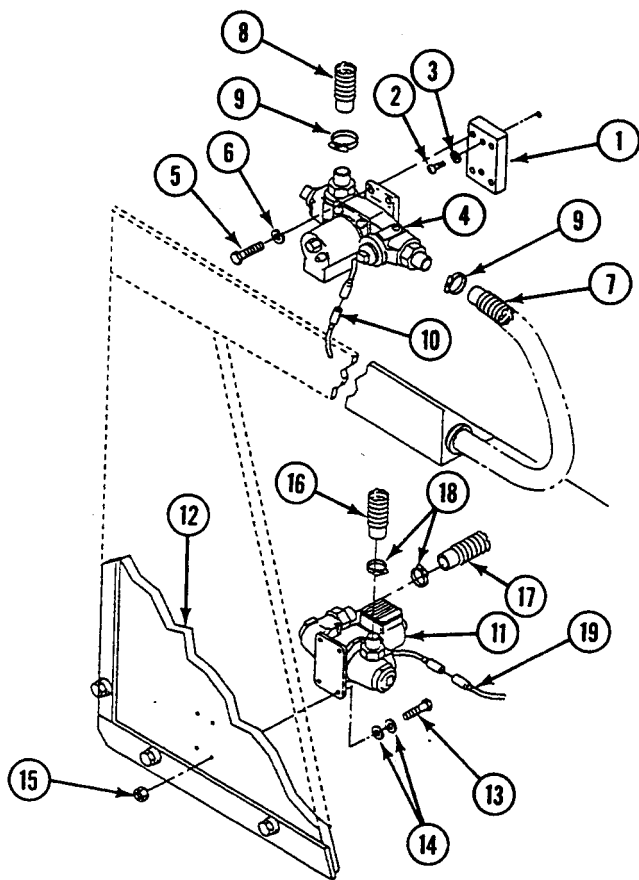
6. Install hose (22) and circuit 579C lead (23) in frame (24).
7. Install frame on welded molding with six screws (25), 12 washers (26), and six new locknuts (27).
8. Install bracket (28) with switch assembly (29) on frame (24). Secure with two screws (30), four washers (31), and two new locknuts (32).
9. If either grommet (33) was removed, install new grommet on hose (34).
10. Install hose (34) with grommets (33) on frame (24).

11. Install two clamps (35) on hose (34). Secure clamps to crossbeam with two screws (36), four washers (37), and two new locknuts (38).



**REPLACE M13 NBC HEATERS AND MOUNTS (M577A2 ONLY) — Continued****0672 00**

12. If support (1) was removed, install support on forward bulkhead with two screws (2) and new lockwashers (3).
13. Install commander's heater (4) on support bracket (1) with four screws (5) and new lockwashers (6).
14. Install inlet and outlet hoses (7) and (8) and two clamps (9) on commander's heater (4). Tighten clamps.
15. Install circuit 537G lead (10) on commander's heater (4).
16. Install driver's heater (11) on frame (12). Secure with four screws (13), eight washers (14), and four new locknuts (15).
17. Install inlet and outlet hoses (16) and (17) and two clamps (18) on driver's heater (11). Tighten clamps.
18. Install circuit 579C lead (19) on driver's heater (11).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Raise and lock ramp (see your -10).
3. Stop engine (see your -10).
4. Check air flow of NBC system. See TM 3-6680-316-10.

**END OF TASK**

---

**REPLACE M13 NBC FILTER SWITCH AND MOUNT BRACKET  
(M577A2 ONLY)**

---

**0673 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0673 00-2).  
Installation (page 0673 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Materials/Parts

Locknut (4)

Battery ground lead disconnected (WP 0294 00)

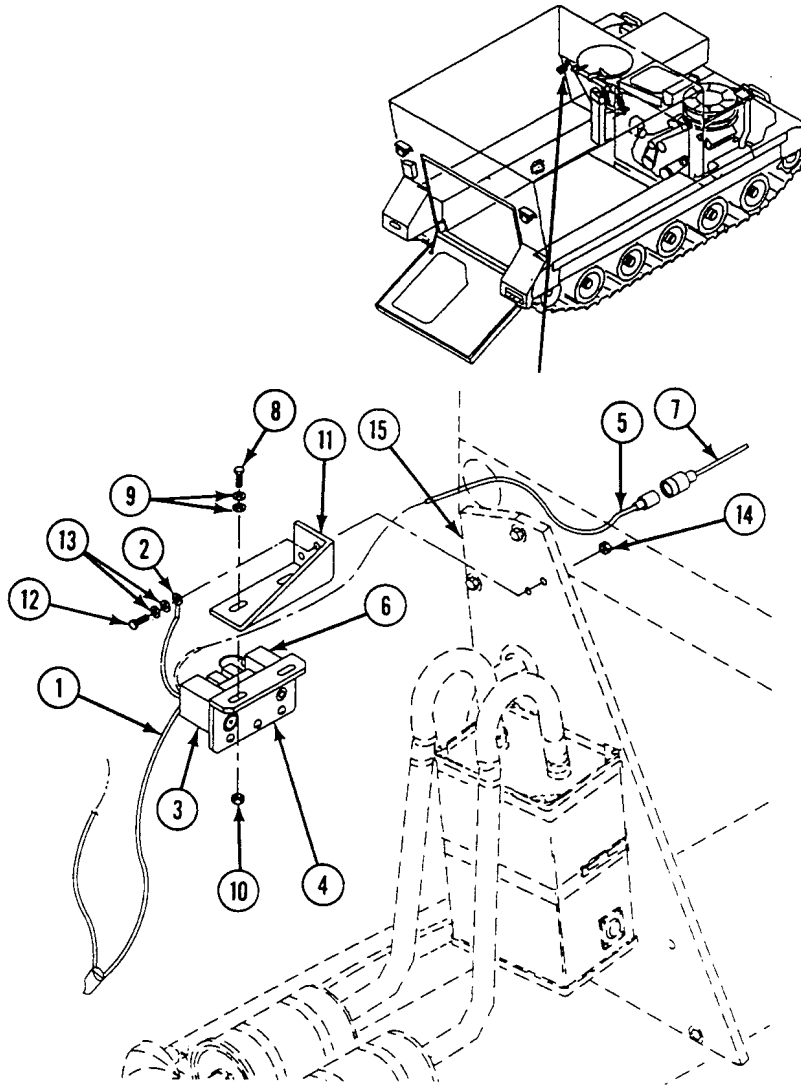
---

**REPLACE M13 NBC FILTER SWITCH AND MOUNT BRACKET (M577A2 ONLY) — Continued**

**0673 00**

**REMOVAL**

1. Disconnect circuit 537F (1) and ground lead (2) from light (3) on switch assembly (4).
2. Disconnect circuit 579A (5) from circuit breaker (6) on switch assembly (4) and circuit lead 415 (7).
3. Remove two screws (8), four washers (9), two locknuts (10), and switch assembly (4) from bracket (11). Discard locknuts.
4. Remove two screws (12), four washers (13), two locknuts (14), ground lead (2), and bracket (11) from frame (15). Discard locknuts.

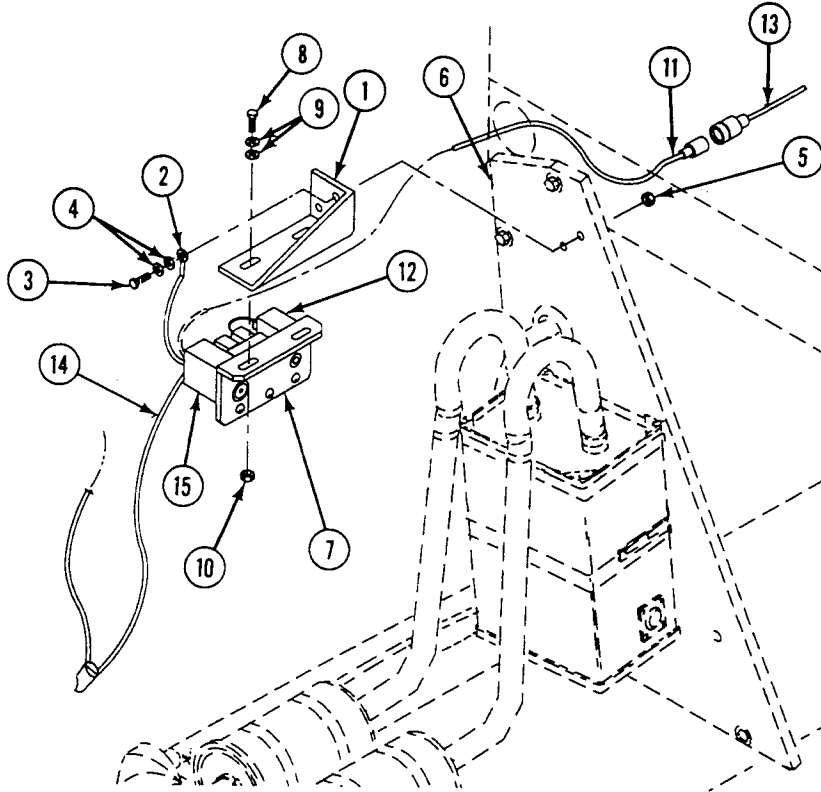


**REPLACE M13 NBC FILTER SWITCH AND MOUNT BRACKET (M577A2 ONLY) — Continued**

0673 00

**INSTALLATION**

1. Install bracket (1), ground lead (2), two screws (3), four washers (4), and two new locknuts (5) on frame (6).
2. Install switch assembly (7), two screws (8), four washers (9), and two new locknuts (10) on bracket (1).
3. Connect circuit 579A (11) to circuit breaker (12) on switch assembly (7) and circuit lead 415 (13).
4. Connect circuit 537F (14) and ground lead (2) to light (15) on switch assembly (7).



**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**





---

**REPLACE M3 NBC FILTER SWITCH AND MOUNT BRACKET  
(M577A2 ONLY)**

---

**0674 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0674 00-2).  
Installation (page 0674 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

Remove instrument panel (WP 0238 00)

Materials/Parts

Locknut (4)

Lockwasher (3)

Tie strap (5)

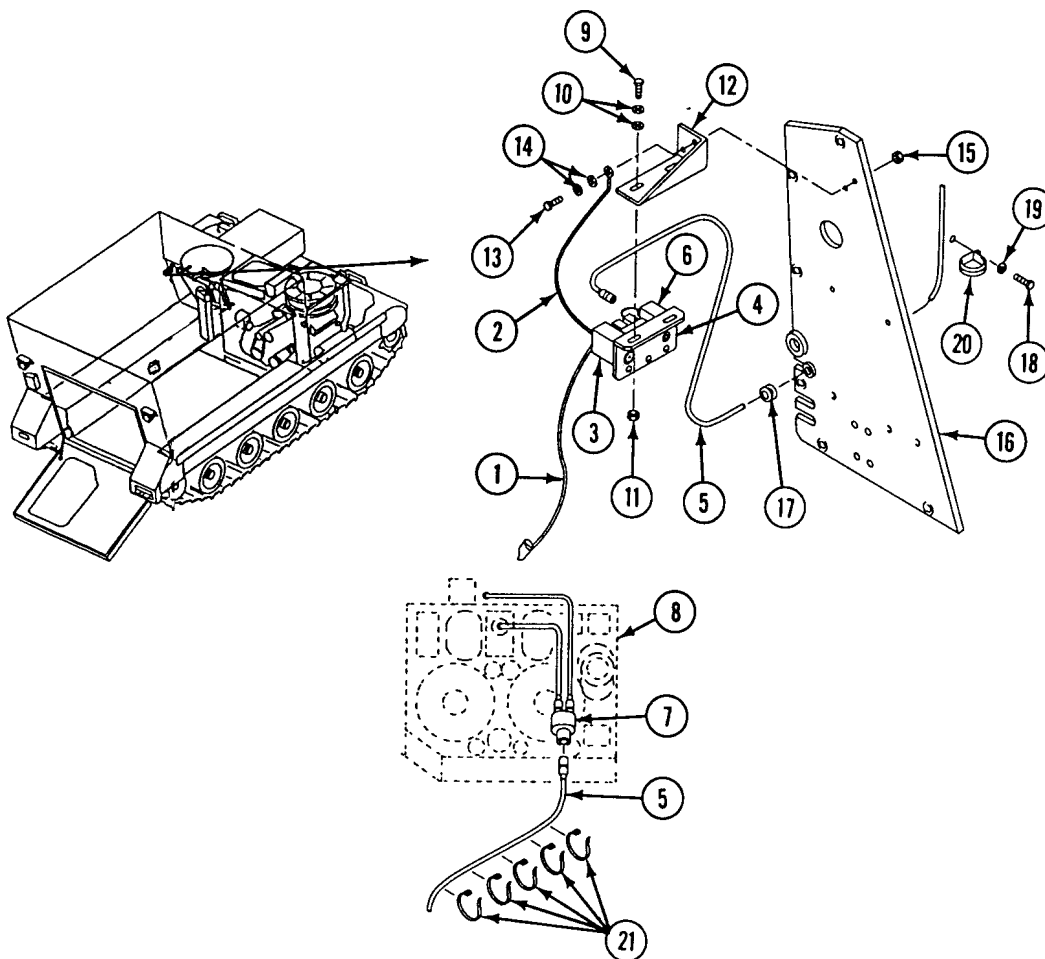
---

**REPLACE M3 NBC FILTER SWITCH AND MOUNT BRACKET (M577A2 ONLY) — Continued**

0674 00

**REMOVAL**

1. Disconnect circuit 537B (1) and ground lead (2) from light (3) on switch assembly (4).
2. Disconnect circuit 579A (5) from circuit breaker (6) and connector (7) on instrument panel (8).
3. Remove two screws (9), four washers (10), two locknuts (11), ground lead (2), and bracket (12) from frame (16). Discard locknuts.
4. Remove two screws (13), four washers (14), two locknuts (15), ground lead (2), and bracket (12) from frame (16). Discard locknuts.
5. Remove circuit 579A (5) and grommet (17) from frame (16).
6. Remove three screws, lockwashers (19), and clamps (20) from circuit 579A (5). Discard lockwashers.
7. Remove five tie straps (21) from circuit 579A (5). Discard tie straps.

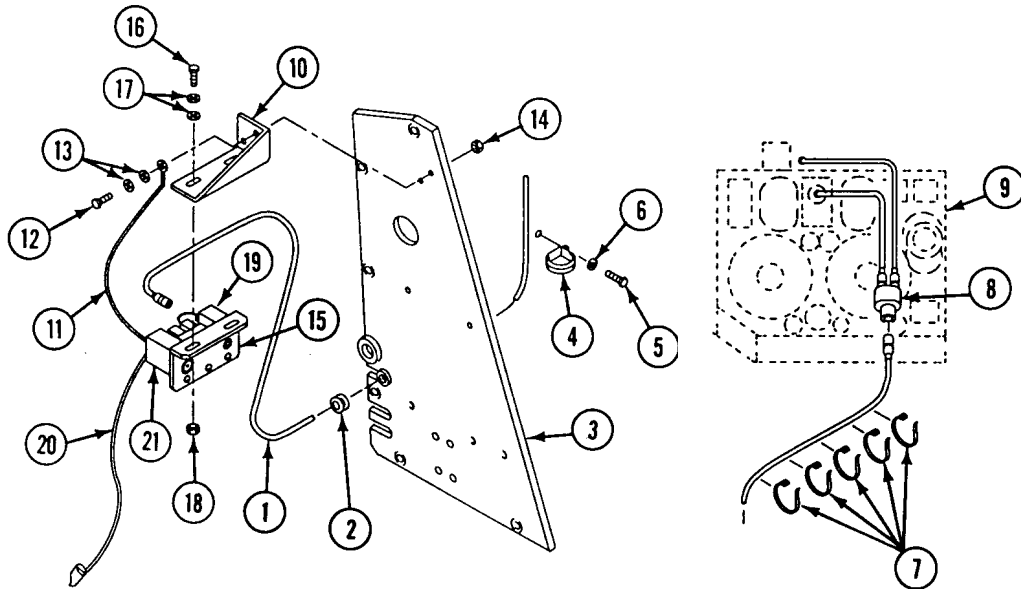


**REPLACE M3 NBC FILTER SWITCH AND MOUNT BRACKET (M577A2 ONLY) — Continued**

0674 00

**INSTALLATION**

1. Install circuit 579A (1) and grommet (2) through frame (3).
2. Install three clamps (4), screws (5), and new lockwashers (6) on circuit 579A (1).
3. Install five new tie straps (7) on circuit 579A (1).
4. Connect circuit 579A (1) to connector (8) on instrument panel (9).
5. Install bracket (10), ground lead (11), two screws (12), four washers (13), and two new locknuts (14) on frame (3).
6. Install switch assembly (15), two screws (16), four washers (17), and two new locknuts (18) on bracket (10).
7. Connect circuit 579A (1) to circuit breaker (19) on switch assembly (15) and connector (8) at instrument panel (9).
8. Connect circuit 537B (20) and ground lead (11) to light (21) on switch assembly (15).



**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Install instrument panel (WP 0238 00).

**END OF TASK**



**REPLACE M3 NBC HEATER CONTROL BOX (M577A2 ONLY)**

**0675 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0675 00-1).  
 Installation (page 0675 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

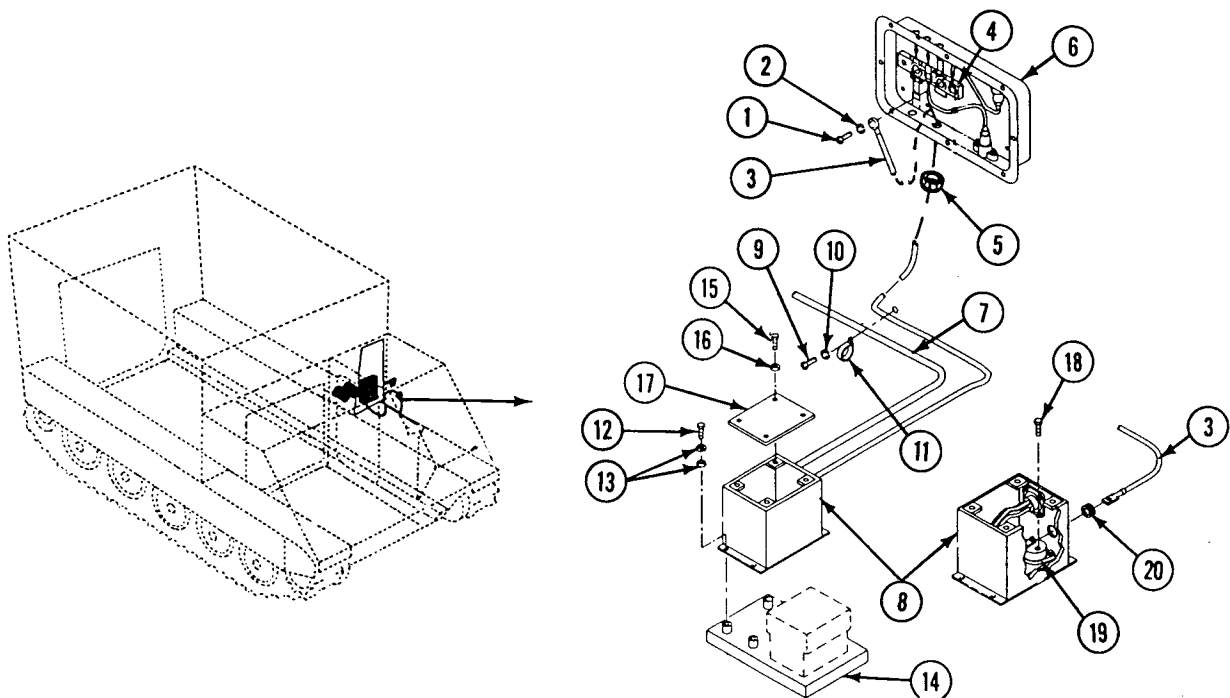
Engine stopped (see your -10)  
 Carrier blocked (see your -10)  
 Battery ground lead disconnected (WP 0294 00)  
 Master switch panel assembly removed (WP 0224 00)

Materials/Parts

Lockwasher (8)  
 Lockwasher

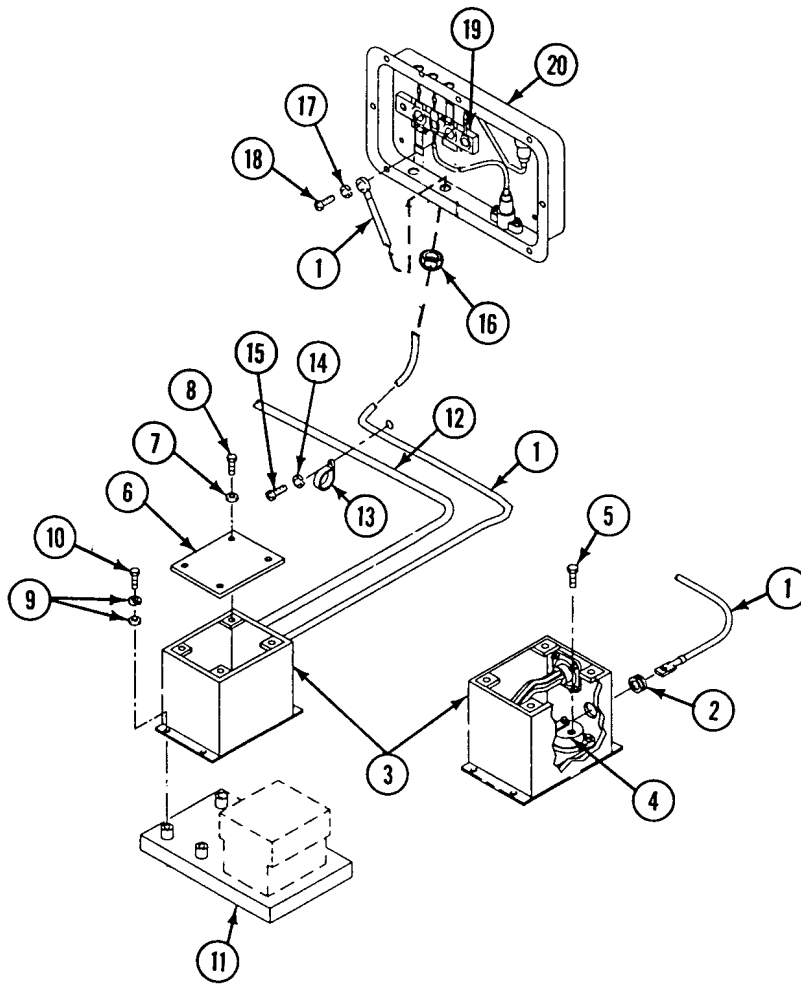
**REMOVAL**

1. Remove screw (1), washer (2), and cable (3) from bus bar (4) in distribution box (6).
2. Disconnect cable (7) from control box (8).
3. Remove screw (9), lockwasher (10), and clamp (11) with cables (3) and (7) from weldnut. Remove clamp from cables. Discard lockwasher.
4. Remove four screws (12), eight lockwashers (13), and control box (8) from bracket (14). Discard lockwashers.
5. Remove four screws (15), washers (16), and cover (17) from control box (8).
6. Remove screw (18) and terminal of cable (3) on circuit breaker (19). Pull cable and grommet (20) from control box (8).
7. Install cover (17), four washers (16), and screws (15) on control box (8).



**INSTALLATION**

1. Remove four screws (8), washers (7), and cover (6) from control box (3).
2. Install cable (1) and grommet (2) in control box (3). Position terminal of cable on circuit breaker (4). Install cable and screw (5) on circuit breaker.
3. Install cover (6), four washers (7), and screws (8) on control box (3).
4. Install control box (3), four screws (10), and eight new lockwashers (9) on bracket (11).
5. Connect cable (12) to control box (3).
6. Install clamp (13) on cables (1) and (12). Secure clamp to weldnut with screw (15) and new lockwasher (14).
7. Install cable (1), washer (17), and screw (18) on bus bar (19) in distribution box (20).



**FOLLOW-THROUGH STEPS**

1. Install master switch panel (WP 0224 00).
2. Connect battery ground lead (WP 0294 00).

**END OF TASK**

---

**REPLACE M8A3 NBC CABLES, SWITCH ASSEMBLY, AND  
BRACKETS (M577A2 ONLY)**

---

**0676 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0676 00-2).  
Installation (page 0676 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

Driver's instrument panel partially removed  
(WP 0238 00)

---

Materials/Parts

Locknut (5)

Lockwasher (3)

Tie strap (5)

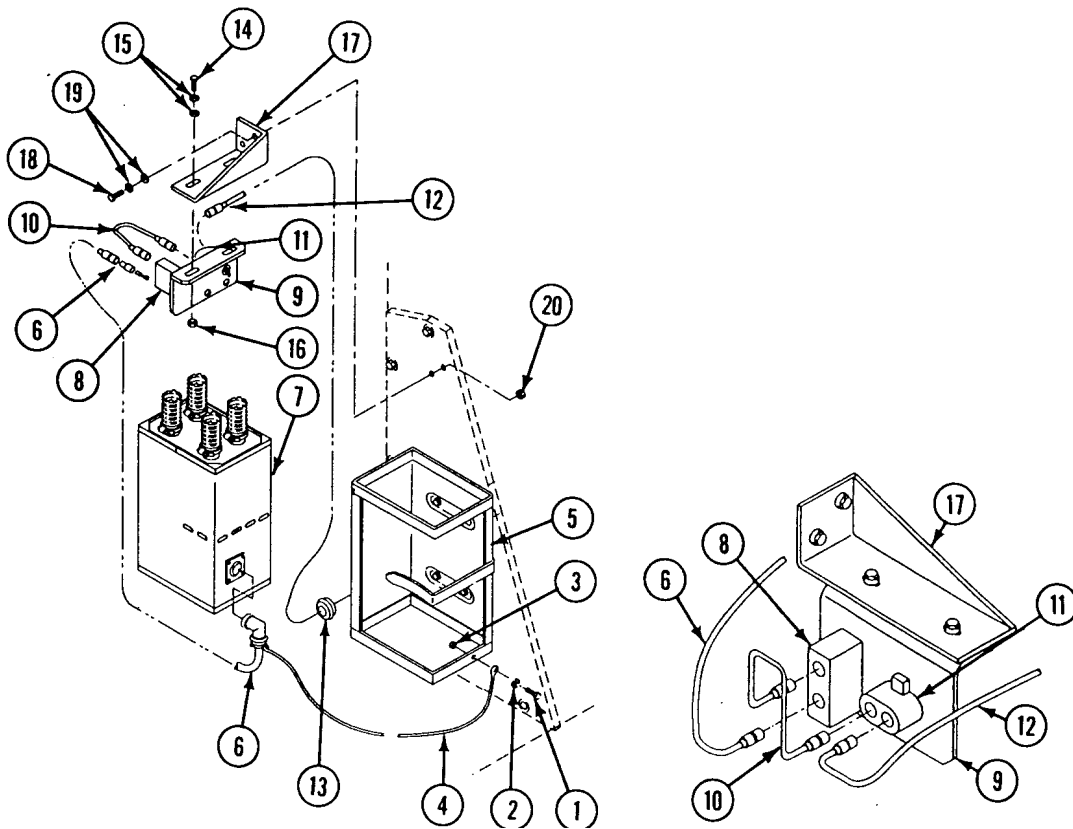


**REPLACE M8A3 NBC CABLES, SWITCH ASSEMBLY, AND BRACKETS  
(M577A2 ONLY) — Continued**

0676 00

**REMOVAL**

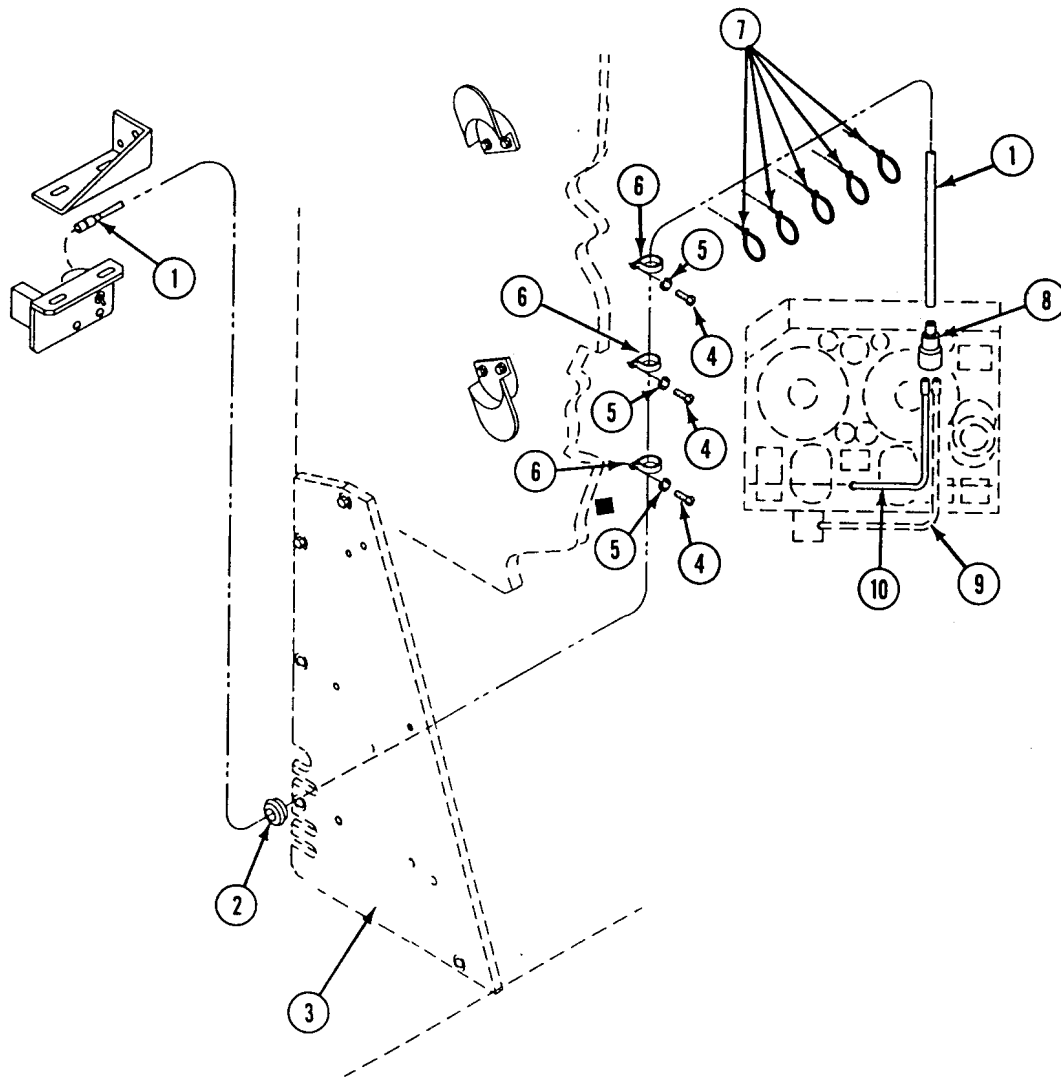
1. Remove screw (1), washer (2), locknut (3), and ground lead (4) from frame assembly (5). Discard locknut.
2. Remove power cable (6) from air purifier (7) and switch (8) on switch assembly (9).
3. Remove cable (10) from switch (8) and circuit breaker (11) on switch assembly (9).
4. Remove cable (12) with grommet (13) from circuit breaker (11) on switch assembly (9).
5. Remove two screws (14), four washers (15), two locknuts (16), and switch assembly (9) from bracket (17). Discard locknuts.
6. Remove two screws (18), four washers (19), two locknuts (20), and bracket (17) from forward bulkhead. Discard locknuts.



**REPLACE M8A3 NBC CABLES, SWITCH ASSEMBLY, AND BRACKETS**  
**(M577A2 ONLY) — Continued**

0676 00

7. Pull cable (1) with grommet (2) from mount plate (3). If damaged, discard grommet.
8. Remove three screws (4), lockwashers (5), and clamps (6) from driver's rear bulkhead. Remove clamps from cable (1). Discard lockwashers.
9. Cut five tie straps (7) securing cable (1) to adjacent wiring harness. Discard tie straps.
10. Remove cable (1) from connector (8).
11. Disconnect circuit 10 lead (9) and lead (10) from connector (8).

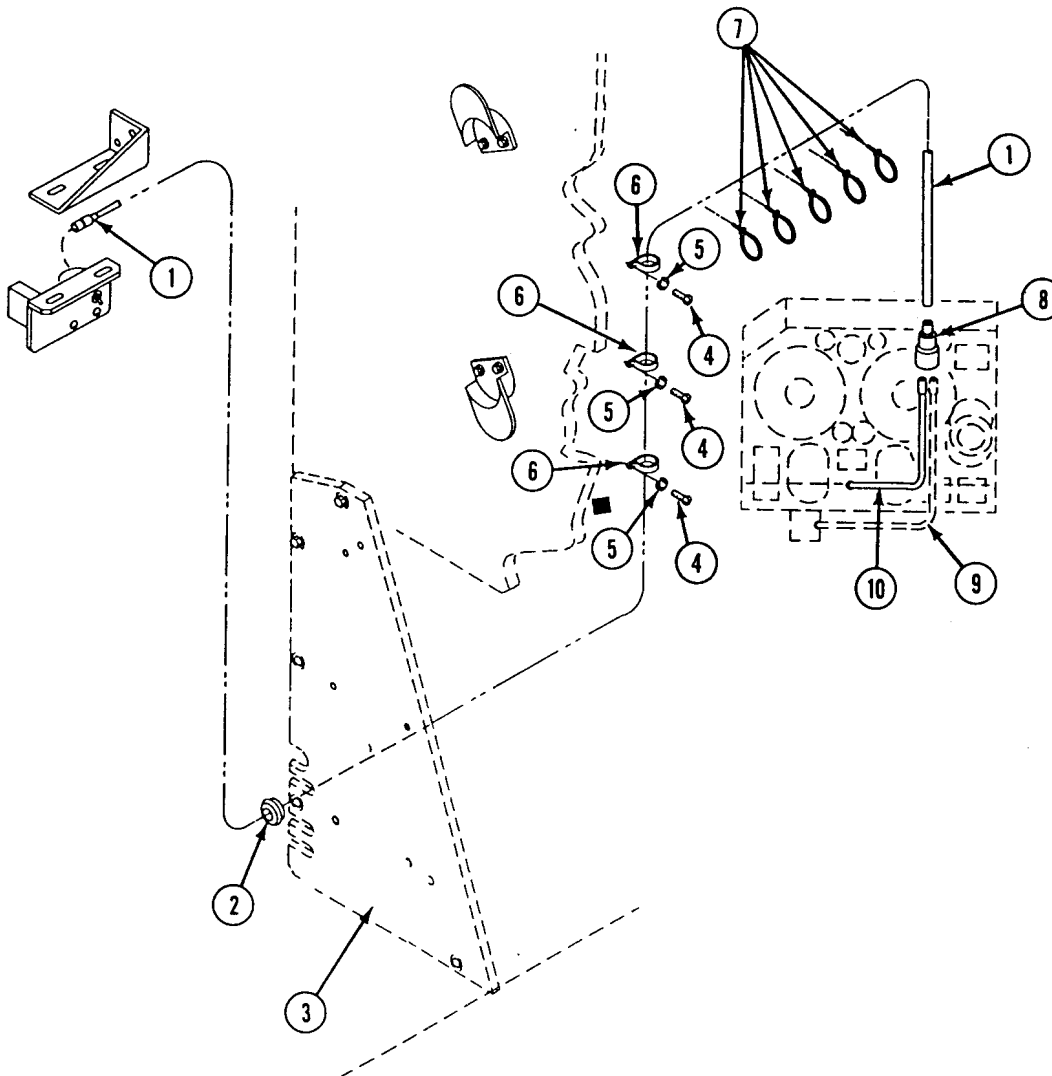


**REPLACE M8A3 NBC CABLES, SWITCH ASSEMBLY, AND BRACKETS**  
**(M577A2 ONLY) — Continued**

0676 00

**INSTALLATION**

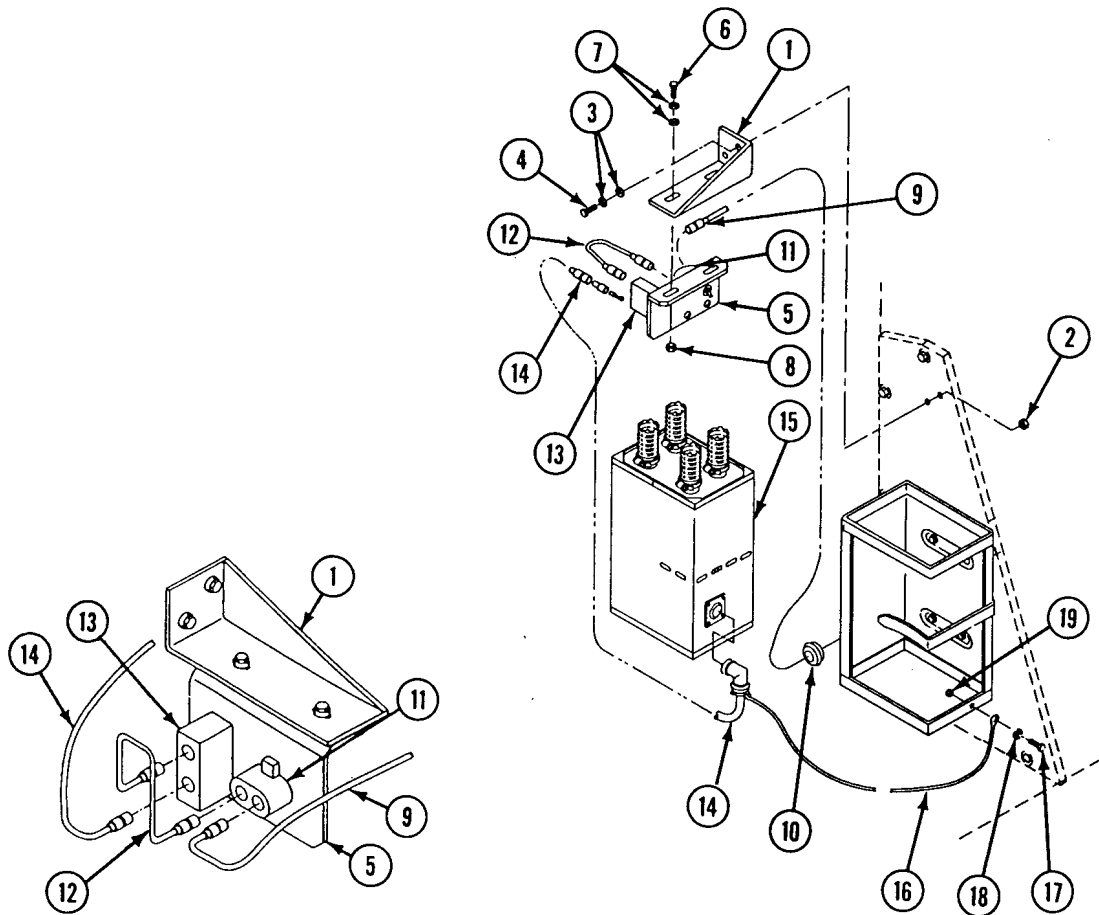
1. Install lead (10) and circuit lead 10 (9) to connector (8).
2. Install cable (1) in connector (8).
3. Route cable (1) along adjacent wiring harness. Secure with five new tie straps (7).
4. Install three clamps (6) on cable (1). Secure clamps to driver's rear bulkhead with three screws (4) and new lockwashers (5).
5. If damaged, install new grommet (2) on cable (1). Route cable through panel (3) and insert grommet.



**REPLACE M8A3 NBC CABLES, SWITCH ASSEMBLY, AND BRACKETS  
(M577A2 ONLY) — Continued**

0676 00

6. Install bracket (1), two new locknuts (2), four washers (3), and two screws (4) on forward compartment bulkhead.
7. Install switch assembly (5), two screws (6), four washers (7), and two new locknuts (8) on bracket (1).
8. Install cable (9) with grommet (10) on circuit breaker (11) on switch assembly (5).
9. Install cable (12) on circuit breaker (11) and switch (13) on switch assembly (5).
10. Install power cable (14) on switch (13) on switch assembly (5) and air purifier (15).
11. Install ground lead (16), screw (17), washer (18), and new locknut (19) on frame assembly (20).



**FOLLOW-THROUGH STEPS**

1. Install driver's instrument panel (WP 0238 00).
2. Connect battery ground lead (WP 0294 00).

**END OF TASK**



---

**REPLACE M8A3 NBC HOSES AND BRACKETS (M577A2 ONLY)**

---

**0677 00**

---

**THIS WORK PACKAGE COVERS:**

Removal (page 0677 00-2).  
Installation (page 0677 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Materials/Parts

Lockwasher (6)

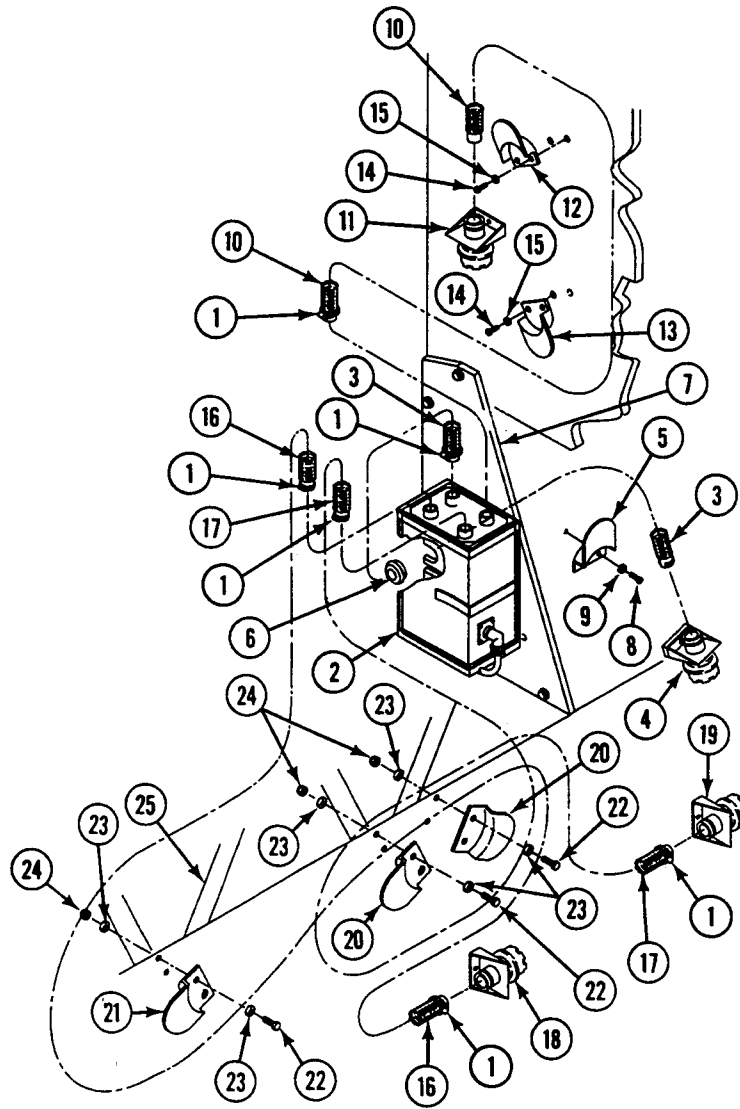
Locknut (6)

---

**REMOVAL****NOTE**

**Hose location may vary on air purifier.**

1. Loosen clamp (1) at air purifier (2) and remove driver's station hose (3) from connector (4), bracket (5), and air purifier.
2. Push hose (3) with grommet (6) through frame (7). If damaged, remove grommet.
3. Remove two screws (8), lockwashers (9), and bracket (5) from driver's bulkhead. Discard lockwashers.
4. Loosen clamp (1) at air purifier (2), and remove commander's station hose (10) from connector (11), bracket (12), bracket (13), and air purifier (2).
5. Remove four screws (14), lockwashers (15), bracket (12), and bracket (13) from forward compartment bulkhead. Discard lockwashers.
6. Loosen clamps (1) at air purifier (2), and remove two crew hoses (16) and (17) from connectors (18) and (19), two brackets (20), and bracket (21).
7. Remove six screws (22), 12 washers (23), six locknuts (24), two brackets (20), and bracket (21) from table supports (25). Discard locknuts.

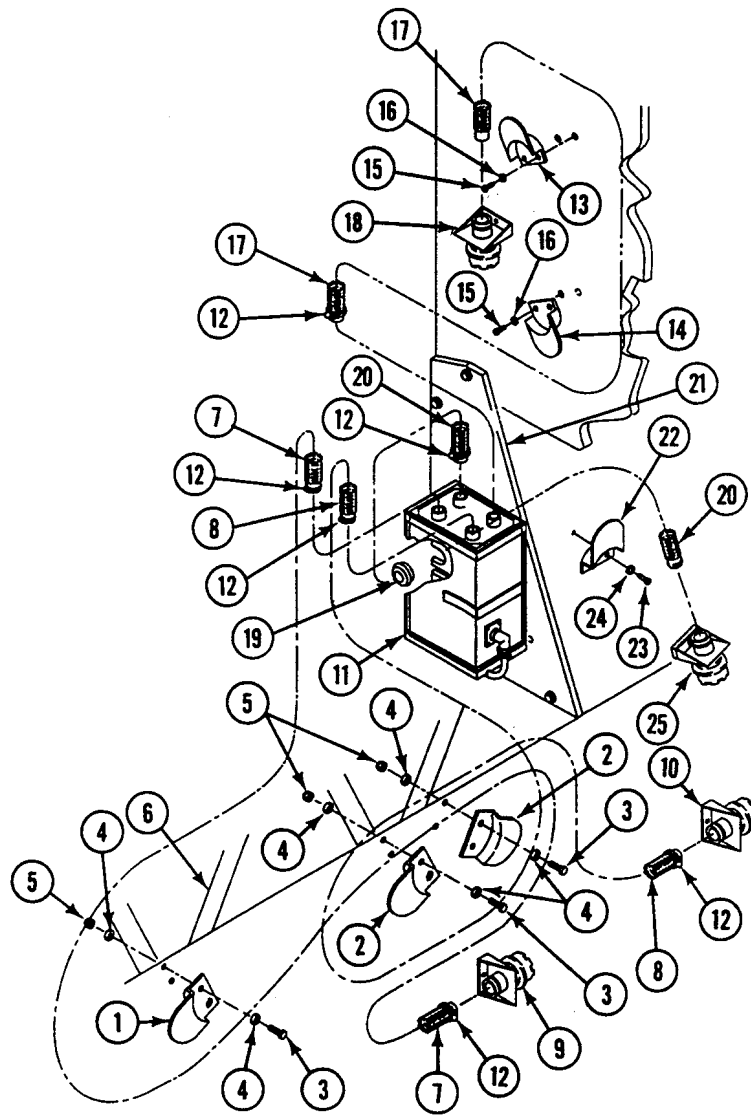




**INSTALLATION****NOTE**

**Hose location may vary on air purifier.**

1. Install bracket (1), two brackets (2), six screws (3), 12 washers (4), and six new locknuts (5) on table supports (6).
2. Install two crew hoses (7) and (8) on connectors (9) and (10).
3. Route hose (7) over bracket (2) and under bracket (1), and install in air purifier (11). Tighten clamp (12).
4. Route hose (8) over bracket (2) and under bracket (1), and install in air purifier (11). Tighten clamp (12).
5. Install bracket (13), bracket (14), four screws (15), and new lockwashers (16) on forward compartment bulkhead.
6. Install commander's station hose (17) on connector (18).
7. Install commander's station hose (17) over and under brackets (13) and (14) and install in air purifier (11). Tighten clamp (12).
8. If removed, install new grommet (19) on driver's station hose (20). Route hose through frame (21).
9. Install driver's station hose (20) on air purifier (11) and tighten clamp (12).
10. Install bracket (22), two screws (23), and new lockwashers (24) on driver's bulkhead.
11. Loop hose (20) over bracket (22) and install on connector (25).



**FOLLOW-THROUGH STEPS**

1. Check air flow of NBC systems. See TM 3-6680-316-10.

**END OF TASK**



---

**REPLACE M8A3/M13 AIR PURIFIER/PRECLEANER AND  
FRAME (M577A2 ONLY)**

---

**0678 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0678 00-2).  
Installation (page 0678 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 3-6680-316-10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Materials/Parts

Locknut (4)

Battery ground lead disconnected (WP 0294 00)

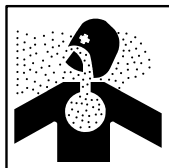
Personnel Required

Unit Mechanic

---

REMOVAL

**WARNING**

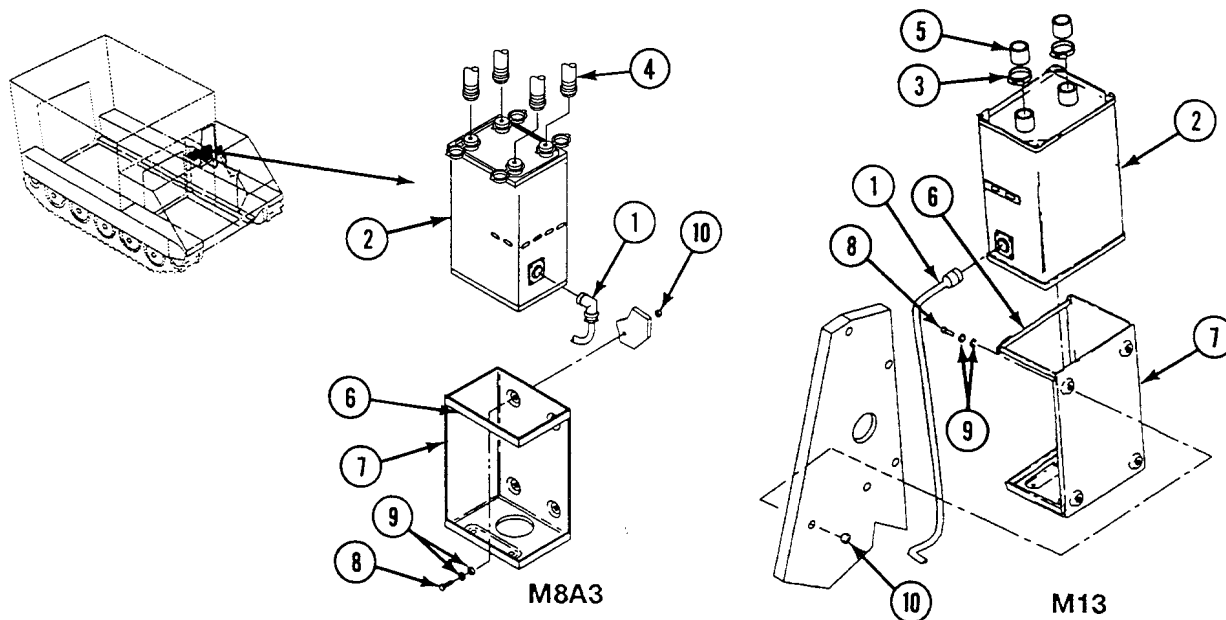


**Contaminated filters are hazardous to personnel. Use precautions when handling filters. Dispose of filters using trained chemical environment personnel.**

**NOTE**

**This task covers replacement of the M8A3 and the M13 air purifier/precleaner and frame. Differences are noted in respective steps.**

1. Disconnect power cable (1) from air purifier/precleaner (2).
2. For M8A3 air purifier, remove four hose quick disconnect fittings (4) from air purifier/precleaner (2). For M13 precleaner, loosen two clamps (3) and remove two couplings (5) and clamps from precleaner.
3. Unfasten latch (6) and lift air purifier/precleaner (2) from frame assembly (7).
4. Remove four screws (8), eight washers (9), four locknuts (10), and frame assembly (7) from panel. Discard locknuts.



**REPLACE M8A3/M13 AIR PURIFIER/PRECLEANER AND FRAME  
(M577A2 ONLY) — Continued**

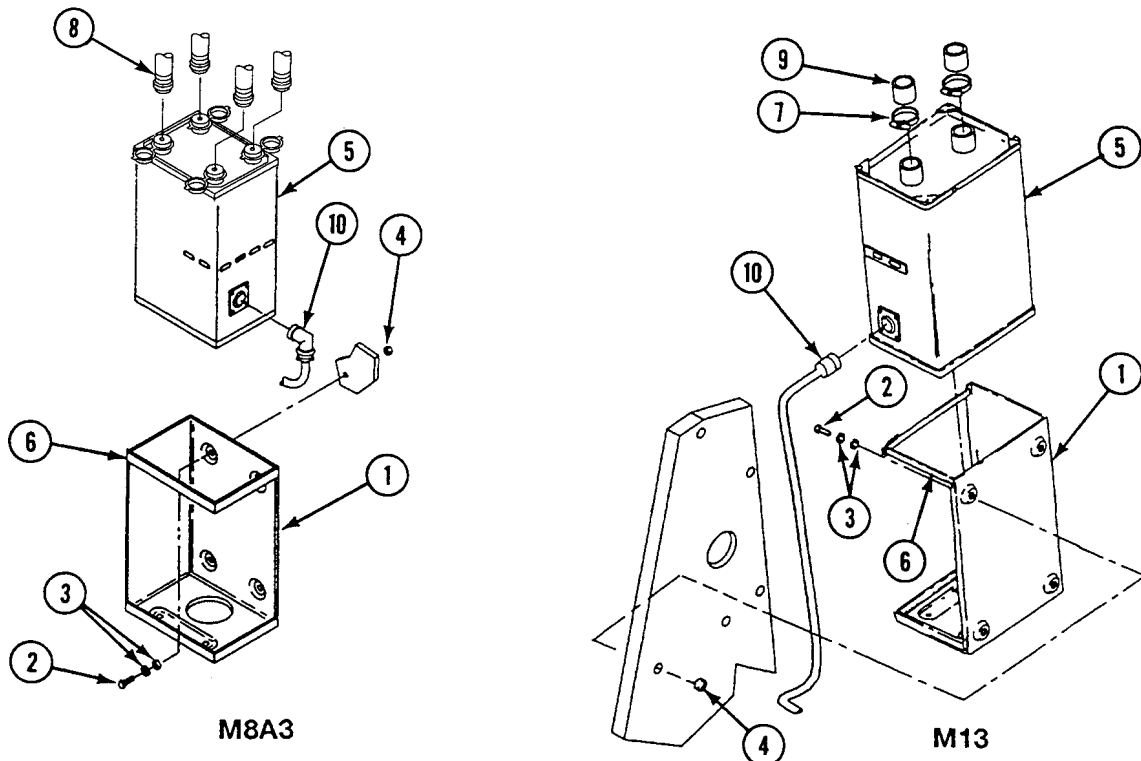
0678 00

**INSTALLATION**

**NOTE**

**Air purifier/precleaner must be adjusted before installation. See TM 3-6680-316-10.**

1. Install frame assembly (1), four screws (2), eight washers (3), and four new locknuts (4) on panel.
2. Place air purifier/precleaner (5) in frame assembly (1) and close latch (6).
3. For M8A3 air purifier, install four hose quick disconnect fittings (8) on air purifier (5). For M13 precleaner, install two clamps (7) and couplings (9) on precleaner and tighten clamps.
4. Connect power cable (10) to air purifier/precleaner (5).



**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**



---

**REPLACE M8A3/M13/M14 ORIFICE CONNECTOR ASSEMBLY,  
SUPPORT, AND QUICK COUPLING HALF (M113A2, M1059,  
M577A2, AND M1068 ONLY)**

---

**0679 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0679 00-2).  
Installation (page 0679 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)  
Retaining Ring Pliers Set (WP 0780 00, Item 45)

Equipment Condition

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

Materials/Parts

Lockwasher  
Lockwasher (2)

---



---

**REPLACE M8A3/M13/M14 ORIFICE CONNECTOR ASSEMBLY, SUPPORT, AND QUICK COUPLING HALF (M113A2, M1059, M577A2, AND M1068 ONLY) — Continued**


---

0679 00

**REMOVAL****NOTE**

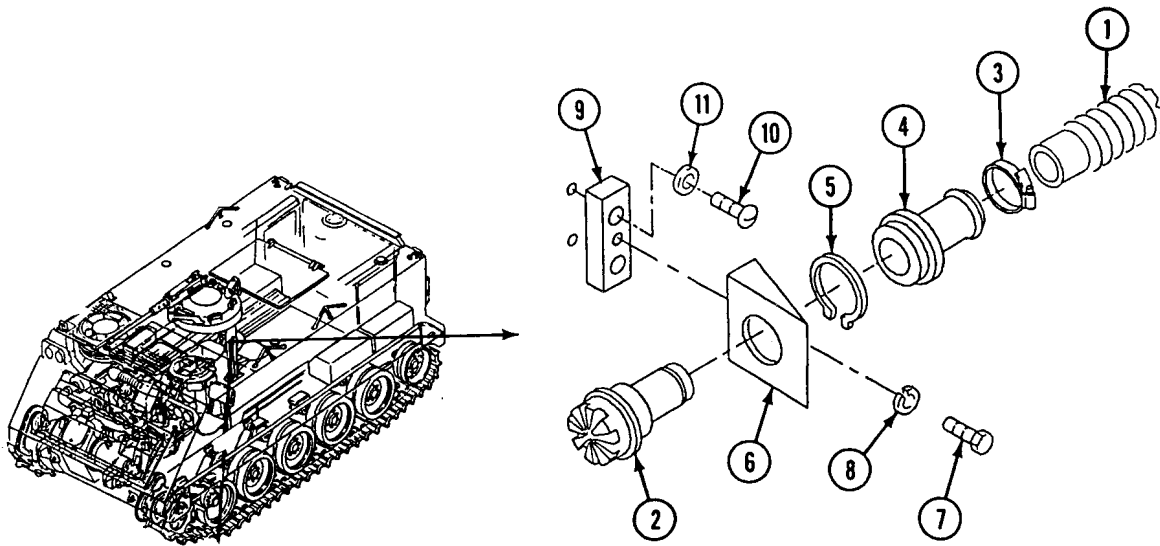
**Orifice connector assembly, mounting bracket, and support are replaced in the same way in the M8A3 NBC kit and the M13 NBC kit.**

1. Remove hose (1) from orifice connector assembly (2).
2. Disassemble clamp (3), quick coupling half (4), and hose (1).
3. Remove retaining ring (5) from orifice connector assembly (2).
4. Remove orifice connector assembly (2) from mounting bracket (6).

**NOTE**

**Mounting brackets are secured directly to the carrier bulkhead or a support. Both options are covered in this task.**

5. Remove screw (7), lockwasher (8), and mounting bracket (6) from bulkhead or support (9). Discard lockwasher.
6. Remove two screws (10), lockwashers (11), and support (9). Discard lockwashers.



---

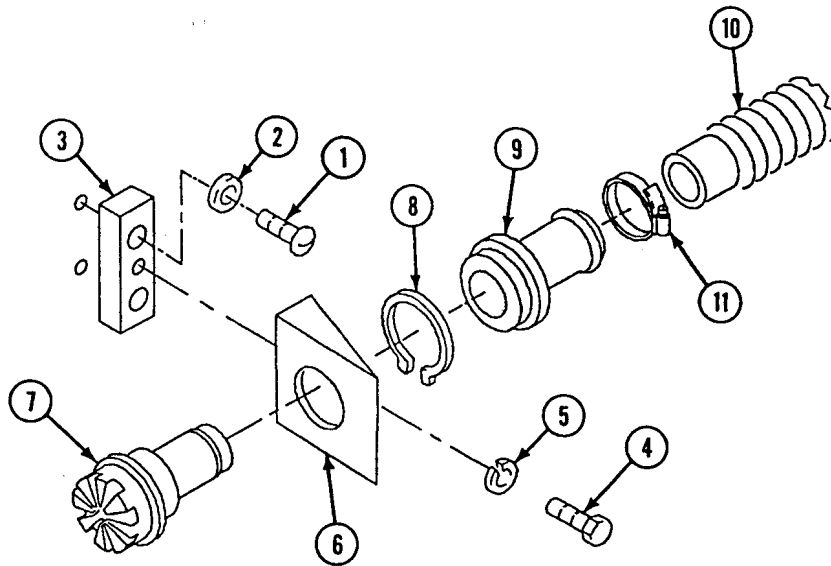
**REPLACE M8A3/M13/M14 ORIFICE CONNECTOR ASSEMBLY, SUPPORT, AND QUICK  
COUPLING HALF (M113A2, M1059, M577A2, AND M1068 ONLY) — Continued**

---

0679 00

**INSTALLATION**

1. Install two screws (1), new lockwashers (2), and support (3) on bulkhead.
2. Install screw (4), new lockwasher (5), and mounting bracket (6) on support (3).
3. Install orifice connector assembly (7) into mounting bracket (6). Secure with retaining ring (8).
4. Assemble quick coupling half (9), hose (10), and clamp (11).
5. Install hose (10) on orifice connector assembly (7).

**END OF TASK**



**REPLACE M13 PRECLEANER AND FRAME (M1068 ONLY)**

**0680 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0680 00-1).  
 Installation (page 0680 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 3-6680-316-10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

Materials/Parts

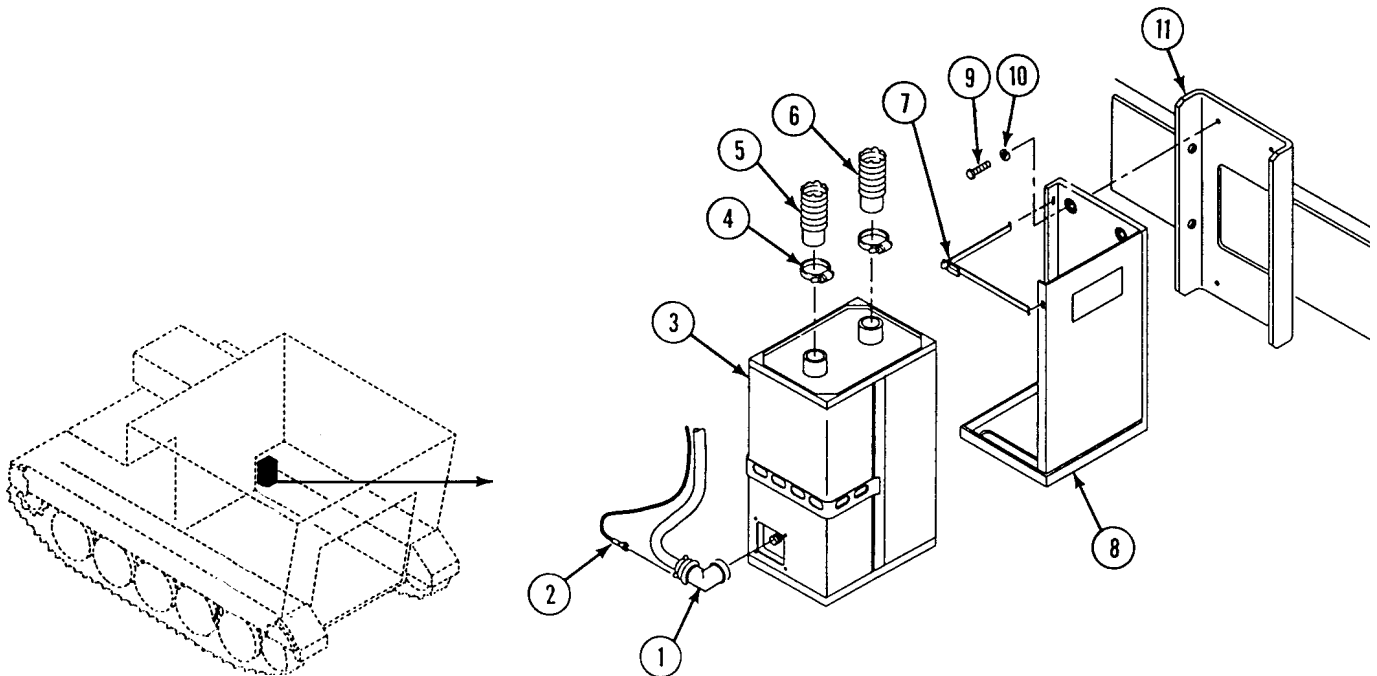
Lockwasher (4)

Personnel Required

Unit Mechanic

**REMOVAL**

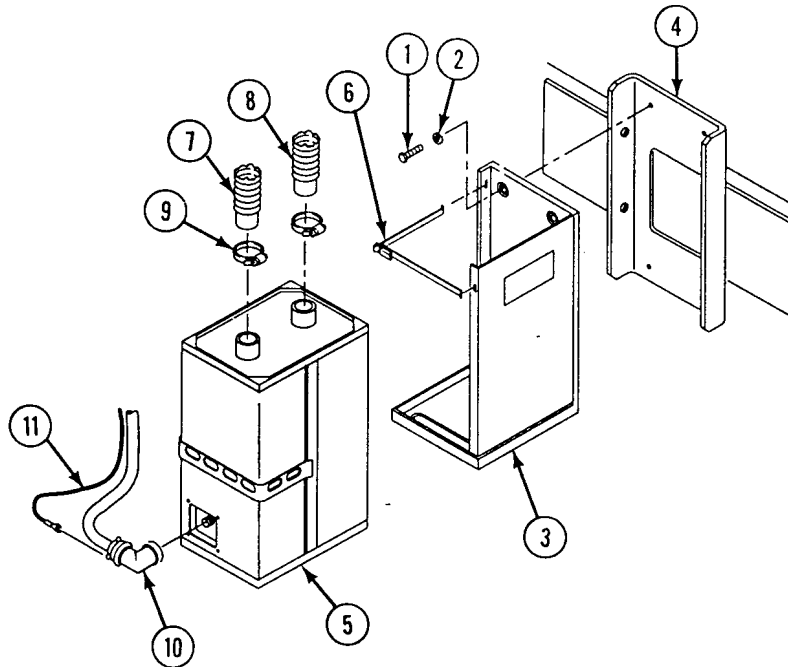
1. Remove circuit lead 538A (1) with ground lead (2) from precleaner (3).
2. Loosen two clamps (4) and remove two hoses (5) and (6) from precleaner (3).
3. Unfasten latch (7) and lift precleaner (3) from frame (8).
4. Remove four screws (9), lockwashers (10), and frame (8) from mounting bracket (11). Discard lockwashers.



**INSTALLATION****NOTE**

The precleaner must be adjusted before installation. See TM 3-6680-316-10.

1. Install new lockwashers (1), four screws (2), and frame (3) on mounting bracket (4).
2. Install precleaner (5) in frame (3) and secure with latch (6).
3. Install two hoses (7) and (8) and clamps (9) on precleaner (5). Tighten clamps.
4. Install circuit lead 538A (10) with ground lead (11) on precleaner (5).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**

---

**REPLACE M13 NBC FILTERS AND HOSES (M1068 ONLY)**

---

**0681 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0681 00-2).  
 Installation (page 0681 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)  
 Carrier blocked (see your -10)  
 Ramp lowered (see your -10)  
 Battery ground lead disconnected (WP 0294 00)  
 Radio operator's seats removed (WP 0489 00)  
 Crew compartment floor plates removed (WP 0440 00)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

Lockwasher (4)  
 Tie strap (AR)

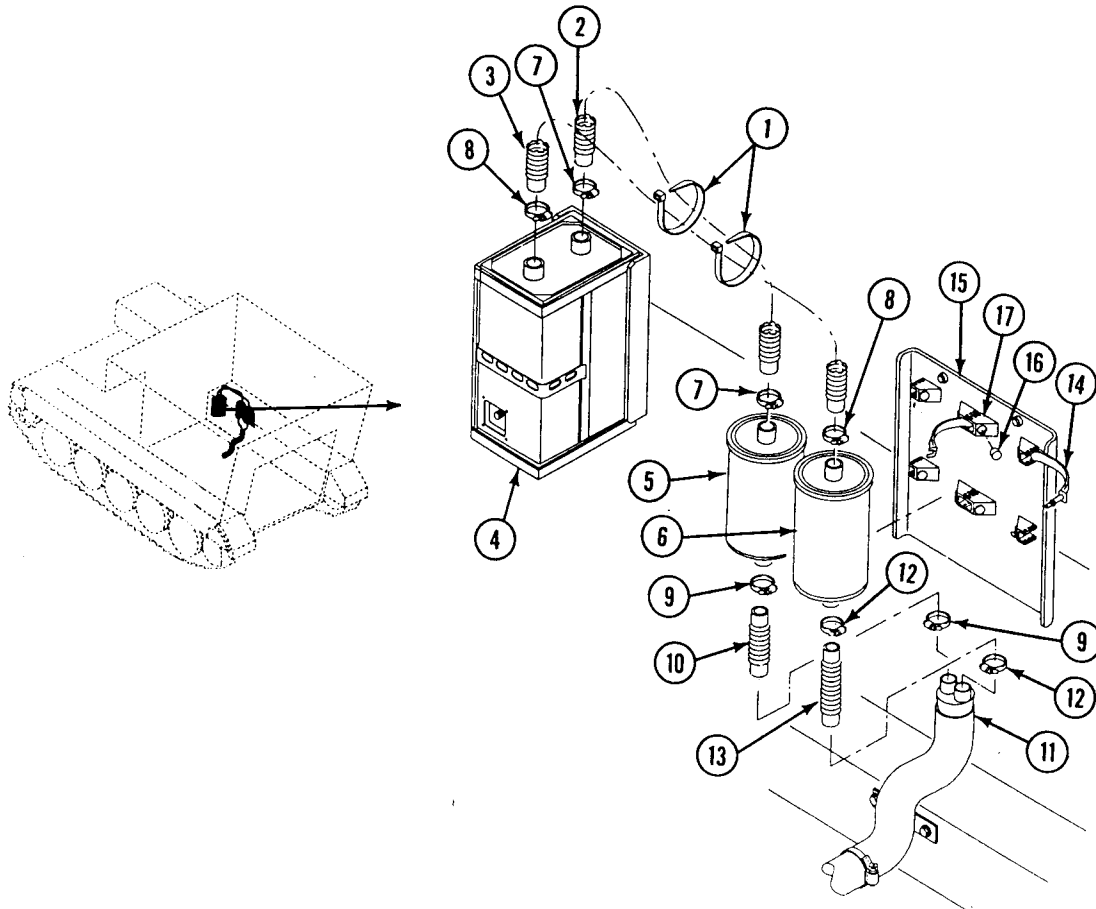
Personnel Required

Unit Mechanic

---

**REMOVAL**

1. Cut two tie straps (1) from two hoses (2) and (3) between precleaner (4) and filters (5) and (6). Discard tie straps.
2. Loosen two clamps (7) and remove hose (2) from precleaner (4) and filter (5).
3. Loosen two clamps (8) and remove hose (3) from precleaner (4) and filter (6).
4. Loosen two clamps (9) and remove hose (10) and clamps from filter (5) and manifold (11).
5. Loosen two clamps (12) and remove hose (13) and clamps from filter (6) and manifold (11).
6. Loosen four clamps (14). Open clamps and remove filters (5) and (6) from mount (15).
7. If damaged, remove any rubber bumper (16) from bracket (17). Discard bumpers.

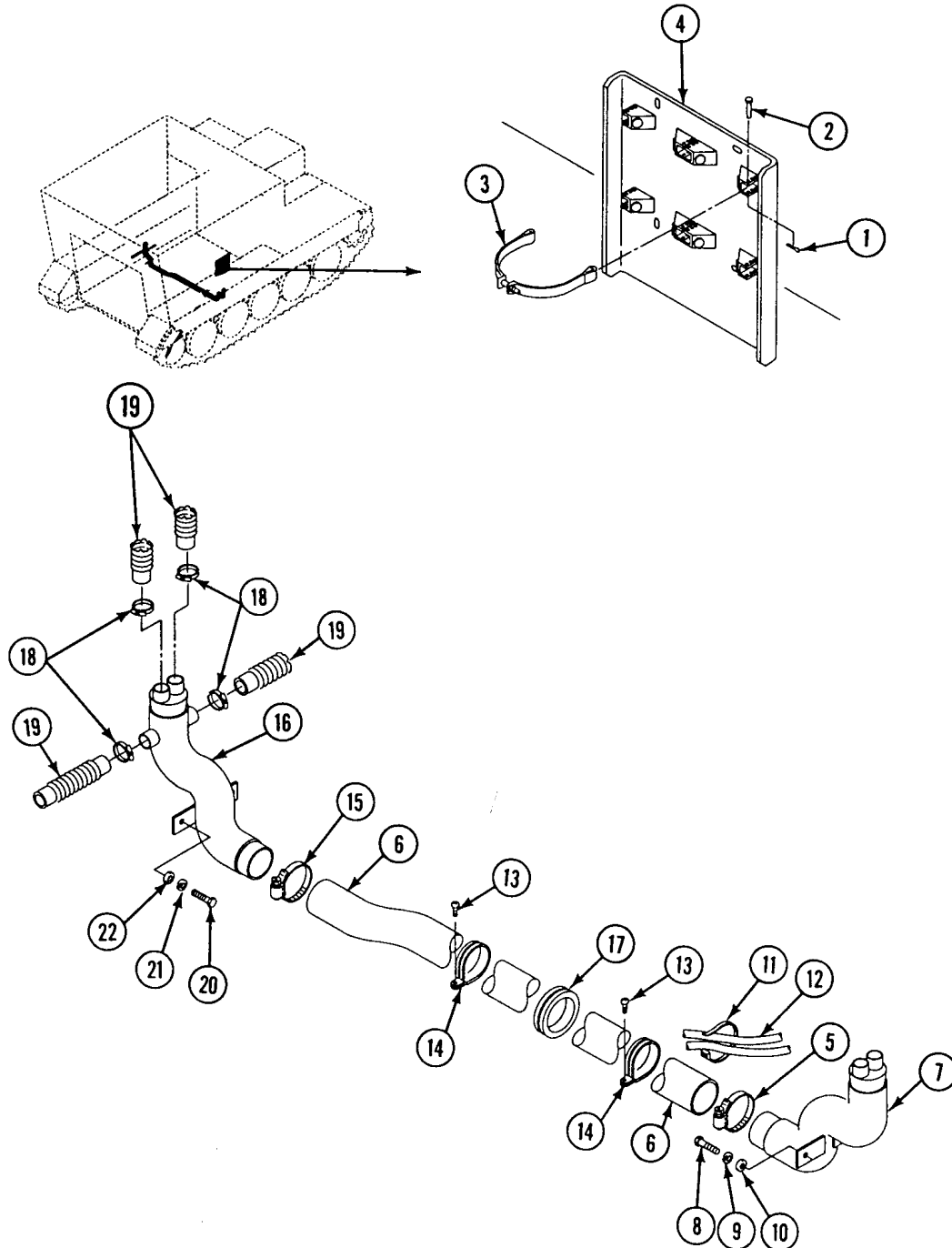


8. If damaged, remove cotter pin (1), straight pin (2), and clamp (3) from bracket (4) as required. Discard cotter pins.
9. Loosen clamp (5) and remove hose (6) from manifold (7).
10. Remove two screws (8), lockwashers (9), washers (10), and manifold (7) from sponson. Discard lockwashers.
11. Cut tie strap (11) securing two personnel heater fuel lines (12) to hose (6). Discard tie strap.
12. Remove two screws (13) and clamps (14) from hose (6).
13. Loosen clamp (15) and remove hose (6) from manifold (16).

REPLACE M13 NBC FILTERS AND HOSES (M1068 ONLY) — Continued

0681 00

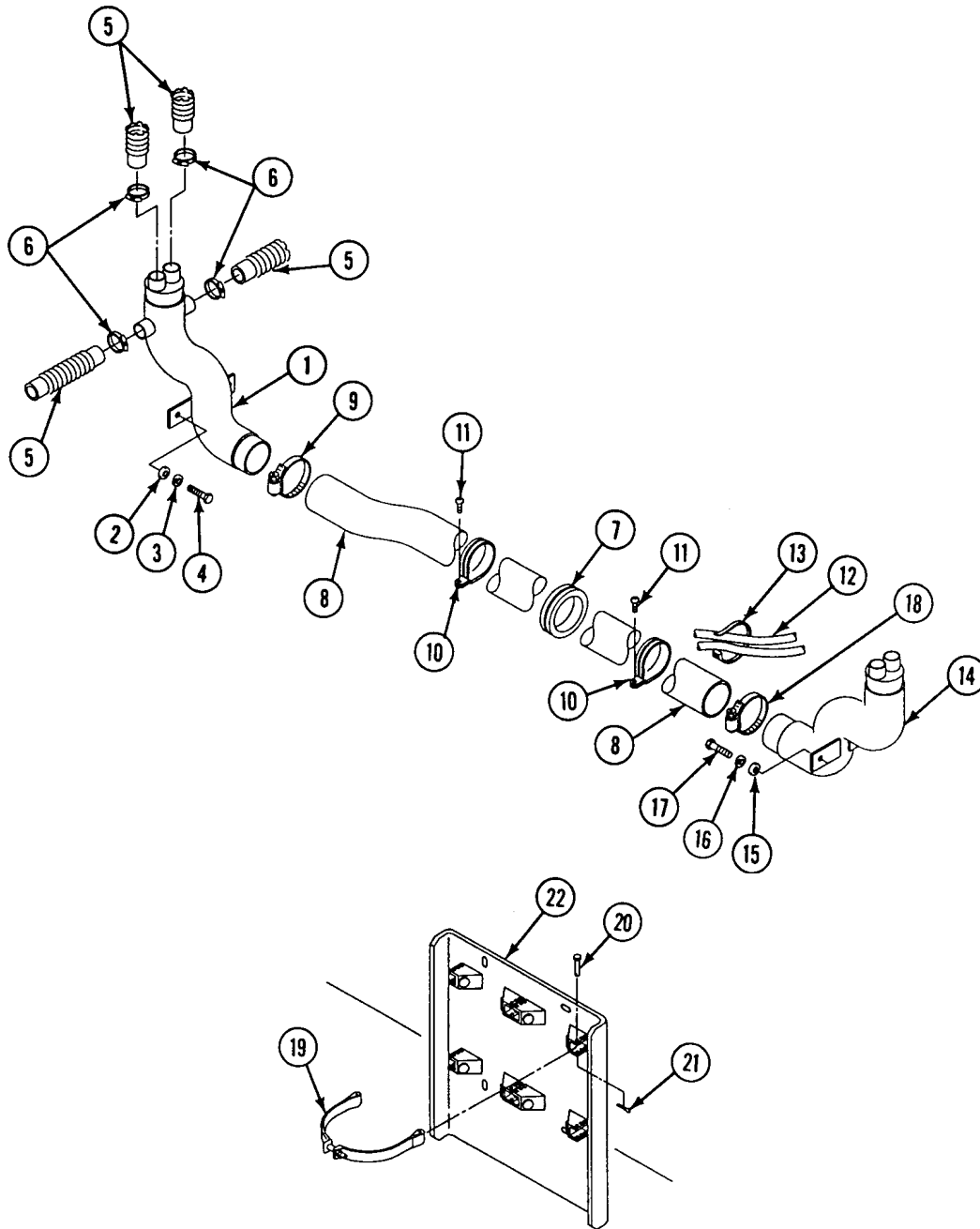
14. Remove hose (6) with grommet (17) from hull.
15. If damaged, remove grommet (17) from hose (6). Discard grommet.
16. Loosen four clamps (18) and remove four heater inlet hoses (19) from manifold (16).
17. Remove two screws (20), lockwashers (21), washers (22), and manifold (16) from sponson. Discard lockwashers.





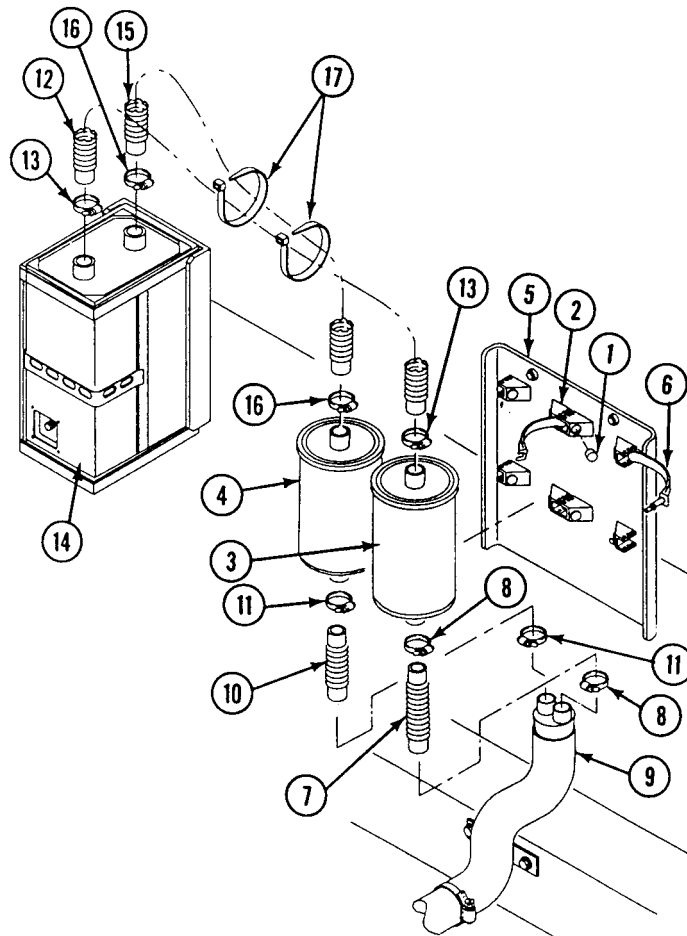
**INSTALLATION**

1. Install manifold (1) on sponson. Secure with two new lockwashers (2), washers (3), and screws (4).
2. Install four heater inlet hoses (5) and clamps (6) on manifold (1). Tighten clamps.
3. If removed, install new grommet (7) on hose (8). Route hose through hull and insert grommet in hull.
4. Install hose (8) and clamp (9) on manifold (1). Tighten clamp.
5. Install two clamps (10) on hose (8). Secure clamps and hose to hull with two screws (11).
6. Secure two personnel heater fuel lines (12) to hose (8) with new tie strap (13).
7. Install manifold (14) on sponson. Secure with two washers (15), new lockwashers (16), and screws (17).
8. Install hose (8) and clamp (18) on manifold (14). Tighten clamp.
9. If removed, install clamps (19), straight pins (20), and new cotter pins (21) on bracket (22).



**REPLACE M13 NBC FILTERS AND HOSES (M1068 ONLY) — Continued****0681 00**

10. If removed or missing, install new rubber bumpers (1) on bracket (2), as required.
11. Install filters (3) and (4) on mount (5). Close and tighten four clamps (6).
12. Install hose (7) and two clamps (8) on filter (3) and manifold (9). Tighten clamps.
13. Install hose (10) and two clamps (11) on filter (4) and manifold (9). Tighten clamps.
14. Install hose (12) and two clamps (13) on precleaner (14) and filter (3). Tighten clamps.
15. Install hose (15) and two clamps (16) on precleaner (14) and filter (4). Tighten clamps.
16. Install two new tie straps (17) to secure two hoses (12) and (15) together between precleaner (14) and filters (3) and (4).

**FOLLOW-THROUGH STEPS**

1. Install crew compartment floor plates (WP 0440 00).
2. Install radio operator's seats (WP 0489 00).
3. Connect battery ground lead (WP 0294 00).

**END OF TASK**

---

**REPLACE M13 NBC HEATER HOSES (M1068 ONLY)**

---

**0682 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0682 00-2).  
 Installation (page 0682 00-5).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Locknut (4)

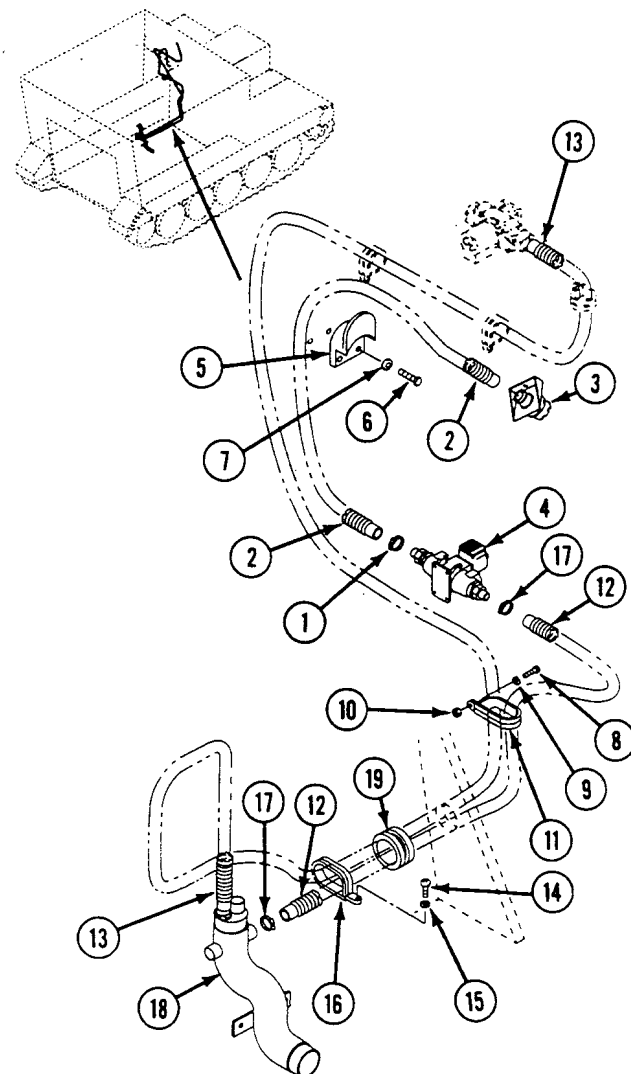
Lockwasher (4)

Tie strap (AR)

---

REMOVAL

1. Loosen two clamps (1) on driver's outlet hose (2). Remove hose from connector (3) and driver's heater (4).
2. If bracket (5) is damaged, remove two screws (6), lockwashers (7), and bracket from driver's bulkhead. Discard lockwashers.
3. Remove screw (8), washer (9), locknut (10), and clamp (11) from welded bracket. Remove clamp from driver's inlet hose (12) and commander's inlet hose (13). Discard locknut.
4. Remove screw (14), lockwasher (15), and clamp (16) from sponson. Remove clamp from driver's inlet hose (12) and commander's inlet hose (13). Discard lockwasher.
5. Loosen two clamps (17) on driver's inlet hose (12). Remove hose from heater (4) and manifold (18).
6. Remove driver's inlet hose (12), with grommet (19), from welded frame. Discard grommet if damaged.

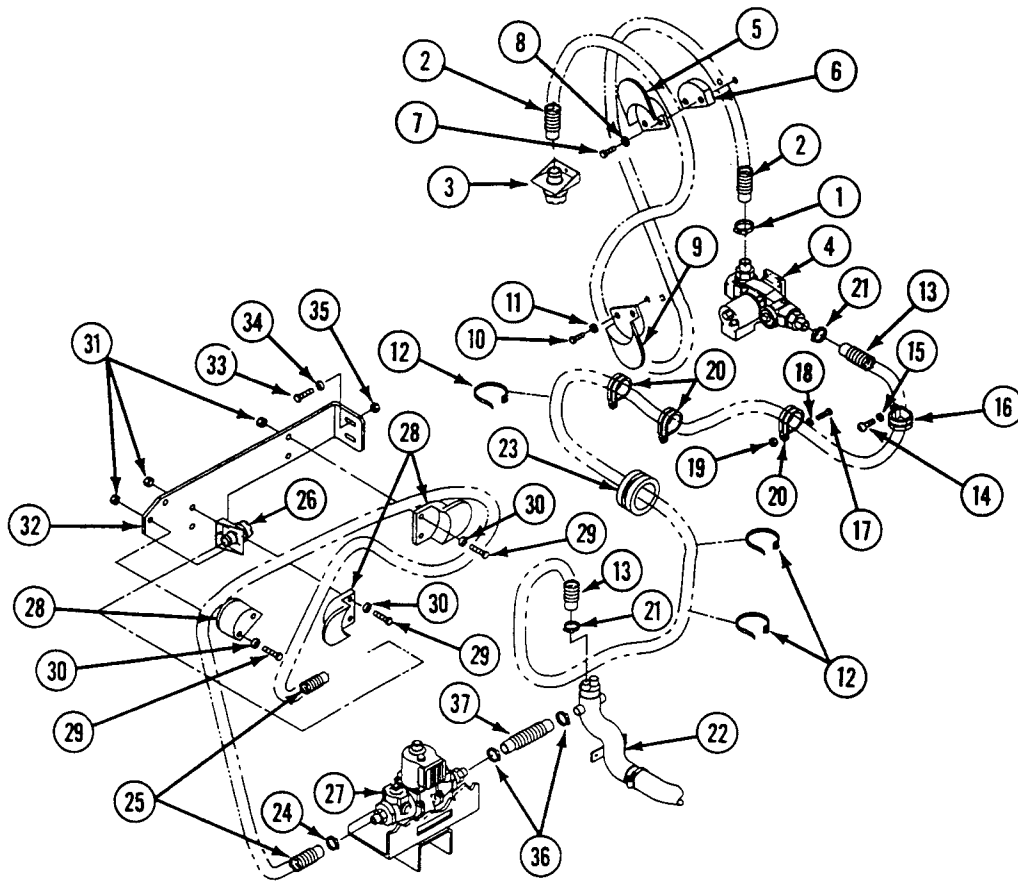


7. Loosen clamp (1) on commander's outlet hose (2). Remove hose from connector (3) and commander's heater (4).
8. If upper bracket (5) or spacer (6) are damaged, remove two screws (7), lockwashers (8), bracket, and spacer from commander's bulkhead. Discard lockwashers.
9. If lower bracket (9) is damaged, remove two screws (10), lockwashers (11), and bracket from commander's bulkhead. Discard lockwashers.

## REPLACE M13 NBC HEATER HOSES (M1068 ONLY) — Continued

0682 00

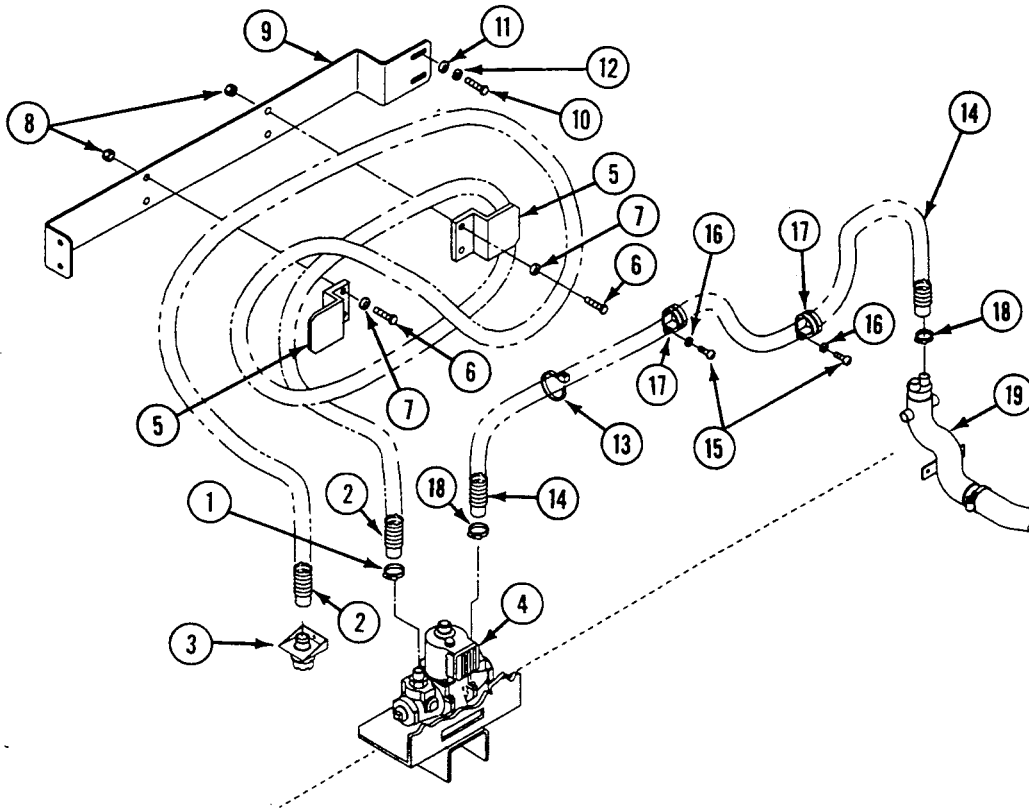
10. Cut all tie straps (12) securing commander's inlet hose (13) to electrical leads. Discard tie straps.
11. Remove screw (14), lockwasher (15), and clamp (16) from commander's bulkhead. Remove clamp from commander's inlet hose (13). Discard lockwasher.
12. Remove three screws (17), washers (18), locknuts (19), and clamps (20) from crossbeam. Remove clamps from commander's inlet hose (13). Discard locknuts.
13. Loosen two clamps (21) on commander's inlet hose (13). Remove hose from commander's heater (4) and manifold (22).
14. Remove commander's inlet hose (13), with grommet (23), from welded frame. Discard grommet if damaged.
15. Loosen clamp (24) on forward operator's outlet hose (25). Remove hose from connector (26) and forward operator's heater (27).
16. If any of three brackets (28) are damaged, remove two screws (29), washers (30), locknuts (31), and damaged bracket (28) from bracket (32). Discard locknuts.
17. If bracket (32) is damaged, remove two screws (33), washers (34), locknuts (35), and damaged bracket from table supports. Discard locknuts.
18. Loosen two clamps (36) on forward operator's inlet hose (37). Remove hose from forward operator's heater (27) and manifold (22).



REPLACE M13 NBC HEATER HOSES (M1068 ONLY) — Continued

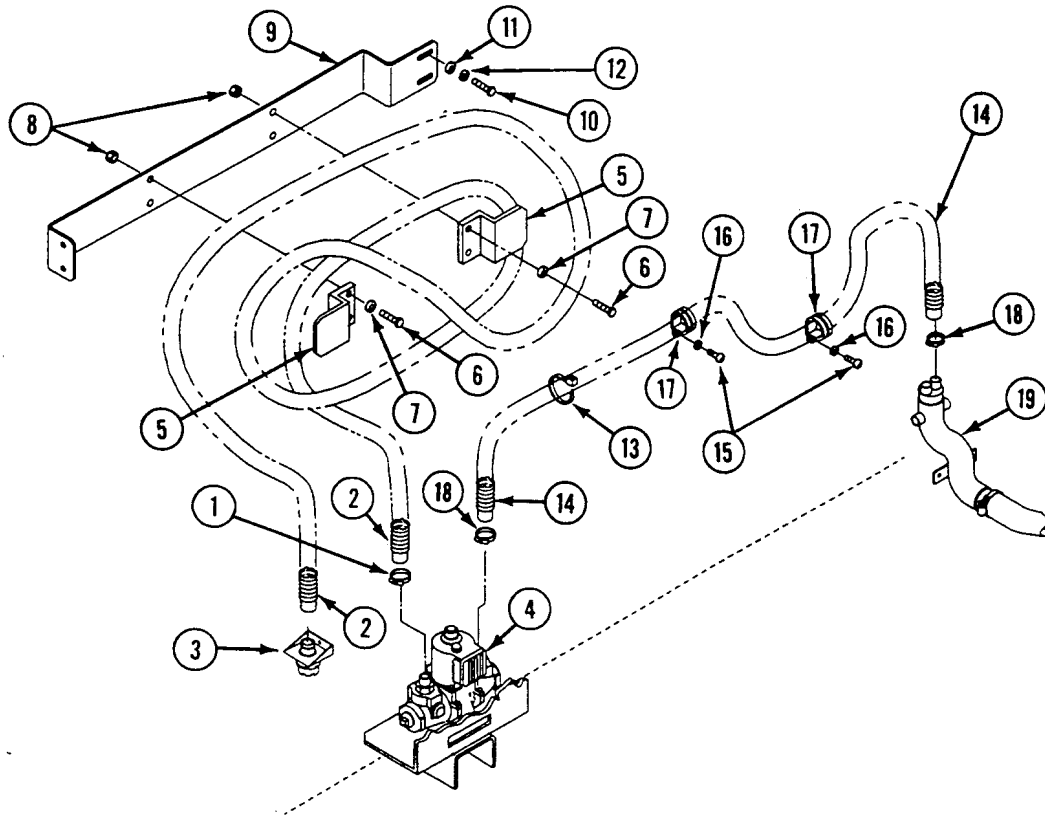
0682 00

19. Loosen clamp (1) on rear operator's outlet hose (2). Remove hose from connector (3) and rear operator's heater (4).
20. If either of two brackets (5) are damaged, remove two screws (6), washers (7), locknuts (8), and damaged bracket (5) from bracket (9). Discard locknuts.
21. If bracket (9) is damaged, remove four screws (10), washers (11), lockwashers (12), and bracket from table supports. Discard lockwashers.
22. Cut tie straps (13) securing electrical leads to rear operator's inlet hose (14). Discard tie straps.
23. Remove two screws (15), lockwashers (16), and clamps (17) from spinson. Remove clamps from rear operator's inlet hose (14). Discard lockwashers.
24. Loosen two clamps (18) on rear operator's inlet hose (14). Remove hose from rear operator's heater (4) and manifold (19).



**INSTALLATION**

1. Install rear operator's inlet hose (14) and two clamps (18) on rear operator's heater (4) and manifold (19). Tighten clamps.
2. Install two clamps (17) on rear operator's inlet hose (14) Secure clamps on sponson with two screws (15) and new lockwashers (16).
3. Secure electrical leads to rear operator's inlet hose (14) with new tie straps (13).
4. If bracket (9) was removed, install bracket on table supports with four screws (10), washers (11), and new lockwashers (12).
5. If either bracket (5) was removed, install bracket (5) on bracket (9) with two screws (6), washers (7), and new locknuts (8).
6. Install rear operator's outlet hose (2) and two clamps (1) on connector (3) and rear operator's heater (4). Tighten clamps.





---

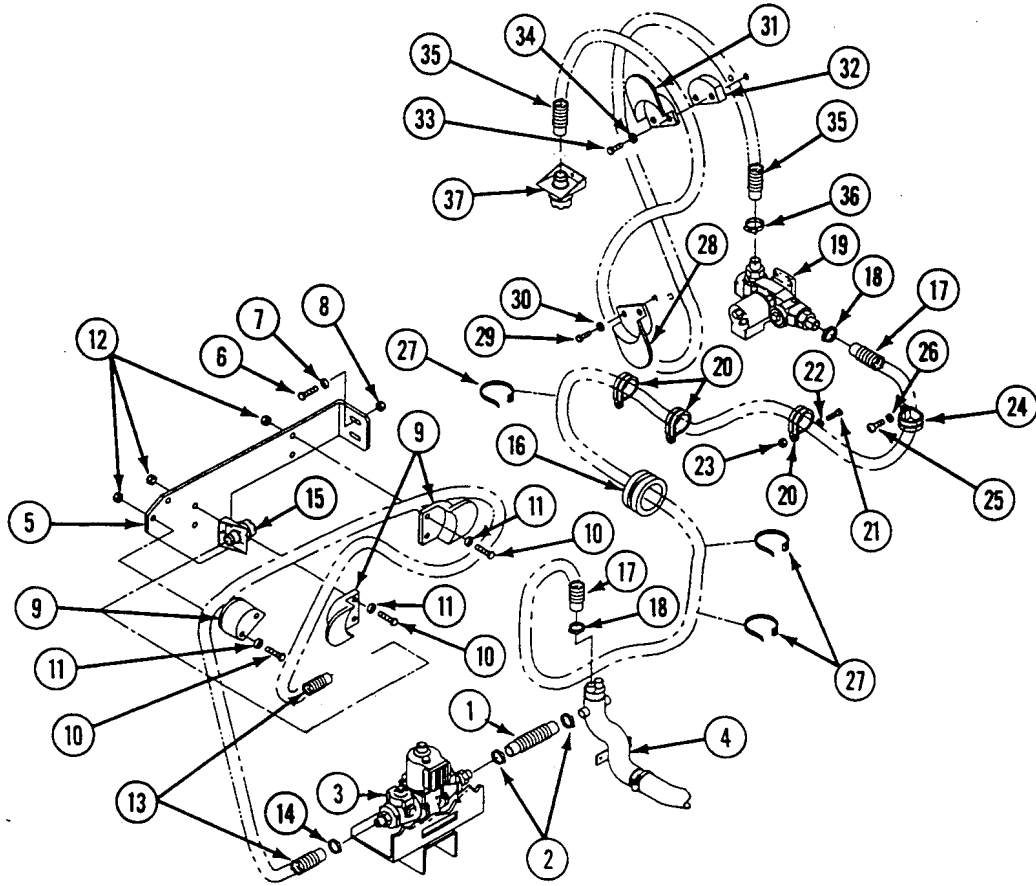
**REPLACE M13 NBC HEATER HOSES (M1068 ONLY) — Continued**

---

**0682 00**

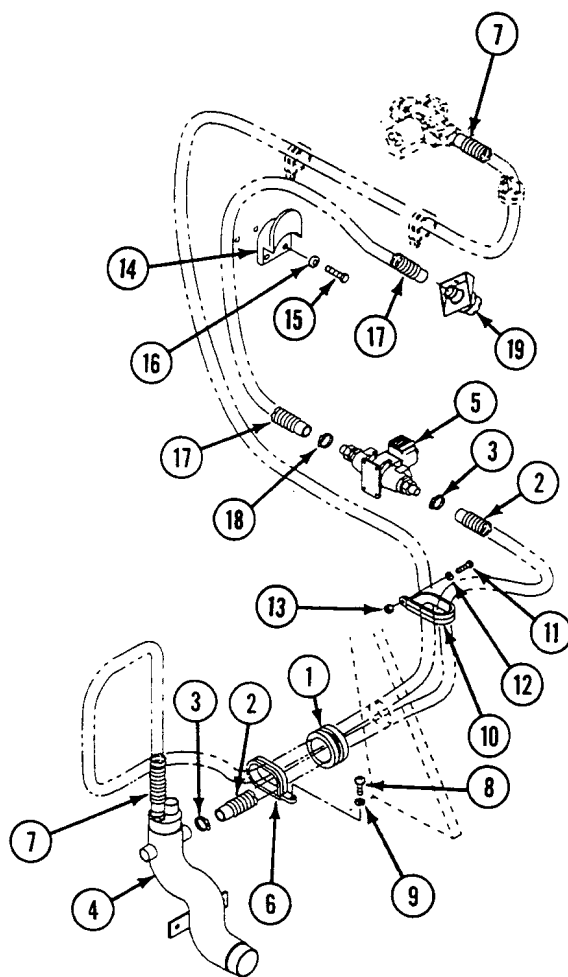
7. Install forward operator's inlet hose (1) and two clamps (2) on forward operator's heater (3) and manifold (4). Tighten clamps.
8. If bracket (5) was removed, install bracket on table supports with two screws (6), washers (7), and new locknuts (8).
9. If any of three brackets (9) was removed, install bracket (9) on bracket (5) with two screws (10), washers (11), and new locknuts (12).
10. Install forward operator's outlet hose (13) and clamp (14) on connector (15) and forward operator's heater (3). Tighten clamp.
11. If grommet (16) was removed, install new grommet on commander's inlet hose (17). Route hose through welded frame and insert grommet.
12. Install commander's inlet hose (17) and two clamps (18) on commander's heater (19) and manifold (4). Tighten clamps.
13. Install three clamps (20) on commander's inlet hose (17). Secure clamps on crossbeam with three screws (21), washers (22), and new locknuts (23).
14. Install clamp (24) on commander's inlet hose (17). Secure clamp on commander's bulkhead with screw (25) and new lockwasher (26).
15. Secure electrical leads to commander's inlet hose (17) with new tie straps (27).
16. If lower bracket (28) was removed, install bracket on commander's bulkhead with two screws (29) and new lockwashers (30).
17. If upper bracket (31) and spacer (32) were removed, install bracket and spacer on commander's bulkhead with two screws (33) and new lockwashers (34).

18. Install commander's outlet hose (35) and clamp (36) on connector (37) and commander's heater (19). Tighten clamp.



**REPLACE M13 NBC HEATER HOSES (M1068 ONLY) — Continued****0682 00**

19. If grommet (1) was removed, install new grommet on driver's inlet hose (2). Route hose through welded frame and insert grommet in frame.
20. Install driver's inlet hose (2) and two clamps (3) on manifold (4) and driver's heater (5). Tighten clamps.
21. Install clamp (6) on driver's inlet hose (2) and commander's inlet hose (7). Secure clamp on sponson with screw (8) and new lockwasher (9).
22. Install clamp (10) on driver's inlet hose (2) and commander's inlet hose (7). Secure clamp on welded bracket with screw (11), washer (12), and new locknut (13).
23. If bracket (14) was removed, install bracket on driver's bulkhead with two screws (15) and new lockwashers (16).
24. Install driver's outlet hose (17) and clamp (18) on connector (19) and driver's heater (5). Tighten clamp.

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Check air flow of NBC systems. See TM 3-6680-316-10.

**END OF TASK**

**REPLACE M3 NBC HEATER CONTROL BOX (M1068 ONLY)**

**0683 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0683 00-1).  
 Installation (page 0683 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

Master switch panel assembly opened (WP 0221 00)

Materials/Parts

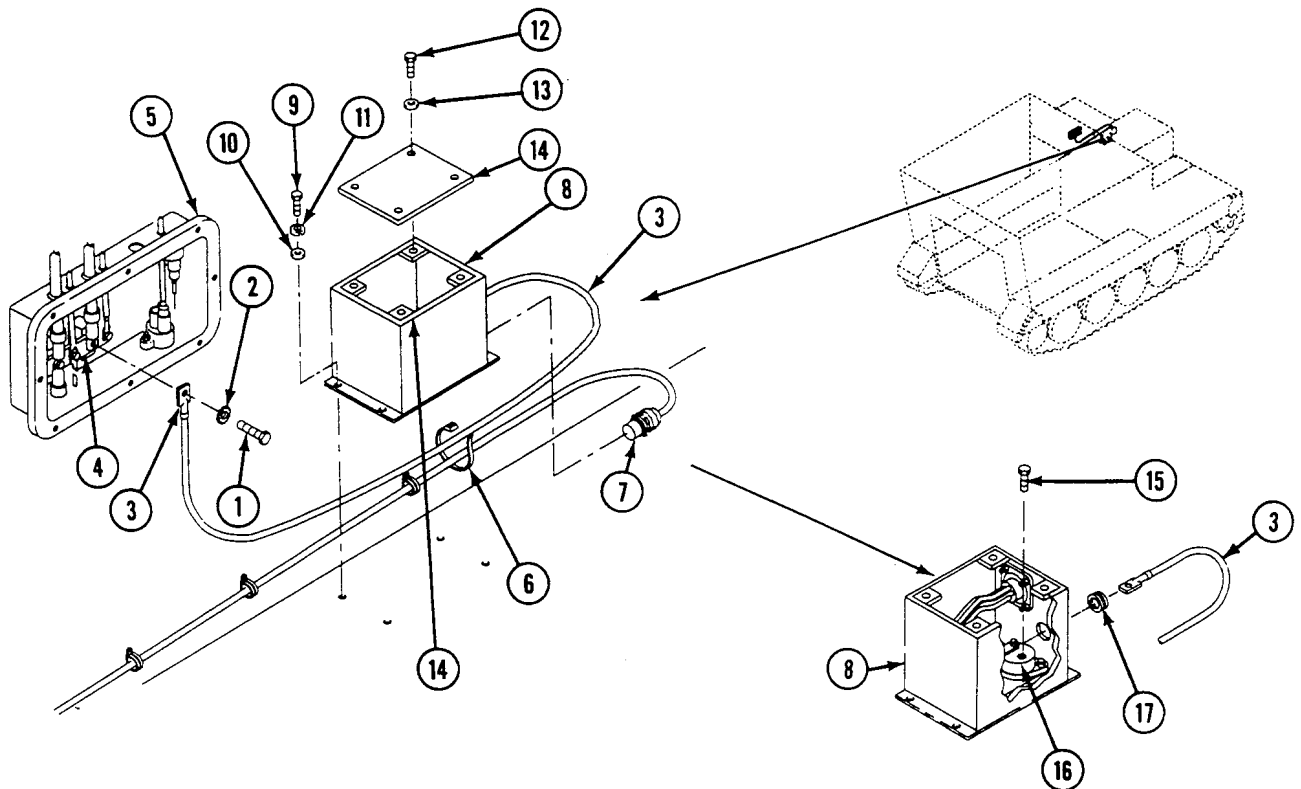
Lockwasher (4)

Lockwasher

Tie strap

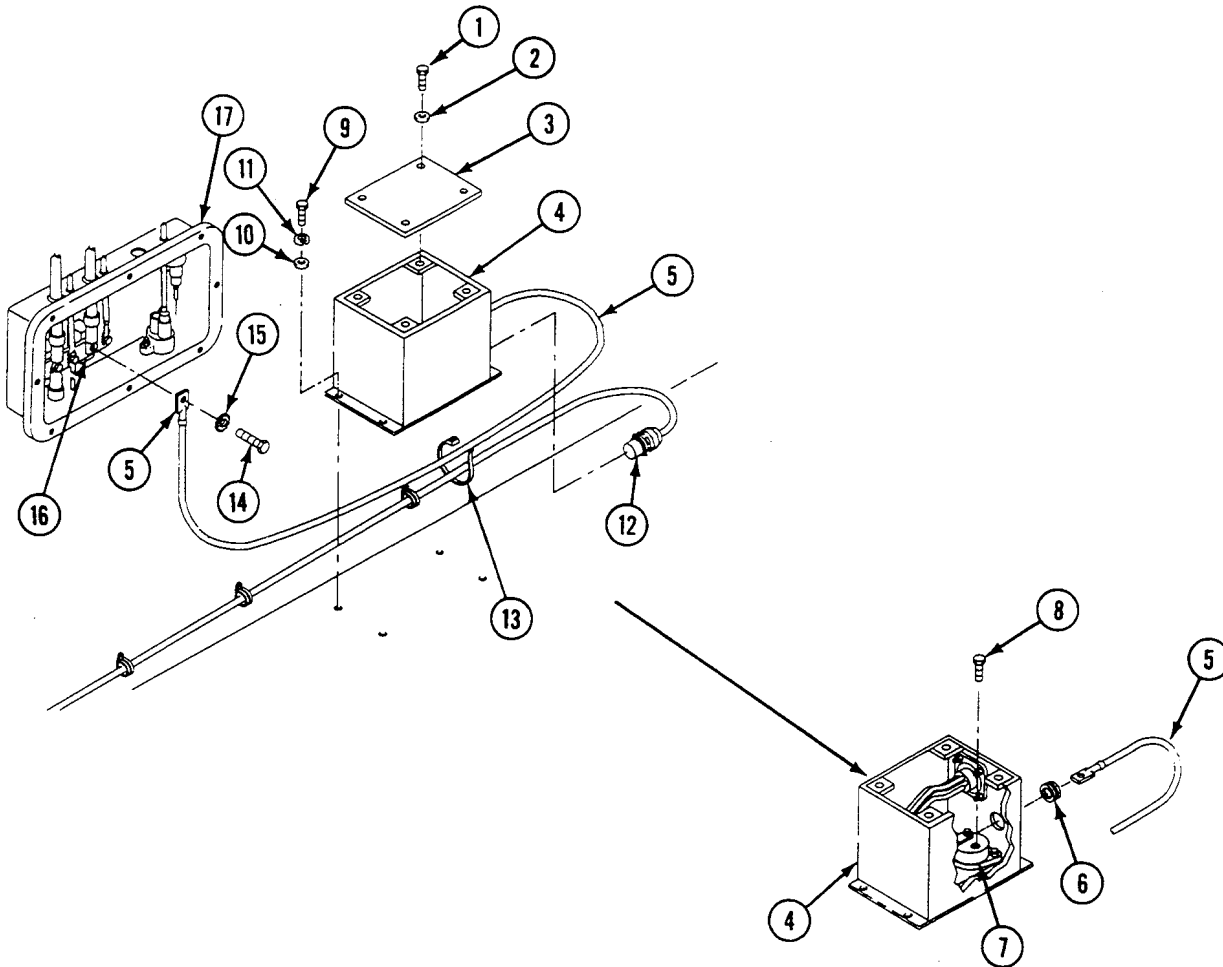
**REMOVAL**

1. Remove screw (1), lockwasher (2), and circuit 536 cable (3) from bus bar (4) in distribution box (5). Discard lockwasher.
2. Cut tie strap (6) that secures cable (3) to wiring harness (7). Discard tie strap.
3. Disconnect wiring harness (7) from control box (8).
4. Remove four screws (9), washers (10), lockwashers (11), and control box (8) from driver's sponson. Discard lockwashers.
5. Remove four screws (12), washers (13), and cover (14) from control box (8).
6. Remove screw (15) and terminal of cable (3) from circuit breaker (16). Pull cable and grommet (17) from control box (8).
7. Install cover (14), four washers (13), and screws (12) on control box (8).



**INSTALLATION**

1. Remove four screws (1), washers (2), and cover (3) from control box (4).
2. Install circuit 536 cable (5) and grommet (6) in control box (4). Position terminal of cable in circuit breaker (7). Install terminal of cable and screw (8) on circuit breaker.
3. Install cover (3), four washers (2), and screws (1) on control box (4).
4. Install four screws (9), washers (10), new lockwashers (11), and control box (4) on driver's sponson.
5. Connect wiring harness (12) to control box (4).
6. Secure cable (5) to wiring harness (12) with new tie strap (13).
7. Install cable (5), new lockwasher (15), and screw (14) on bus bar (16) in distribution box (17).



**FOLLOW-THROUGH STEPS**

1. Install master switch panel (WP 0221 00).
2. Connect battery ground lead (WP 0294 00).

**END OF TASK**

**REPLACE M13 NBC HEATER WIRING HARNESS (M1068 ONLY)**

**0684 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0684 00-1).  
 Installation (page 0684 00-5).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Locknut (4)

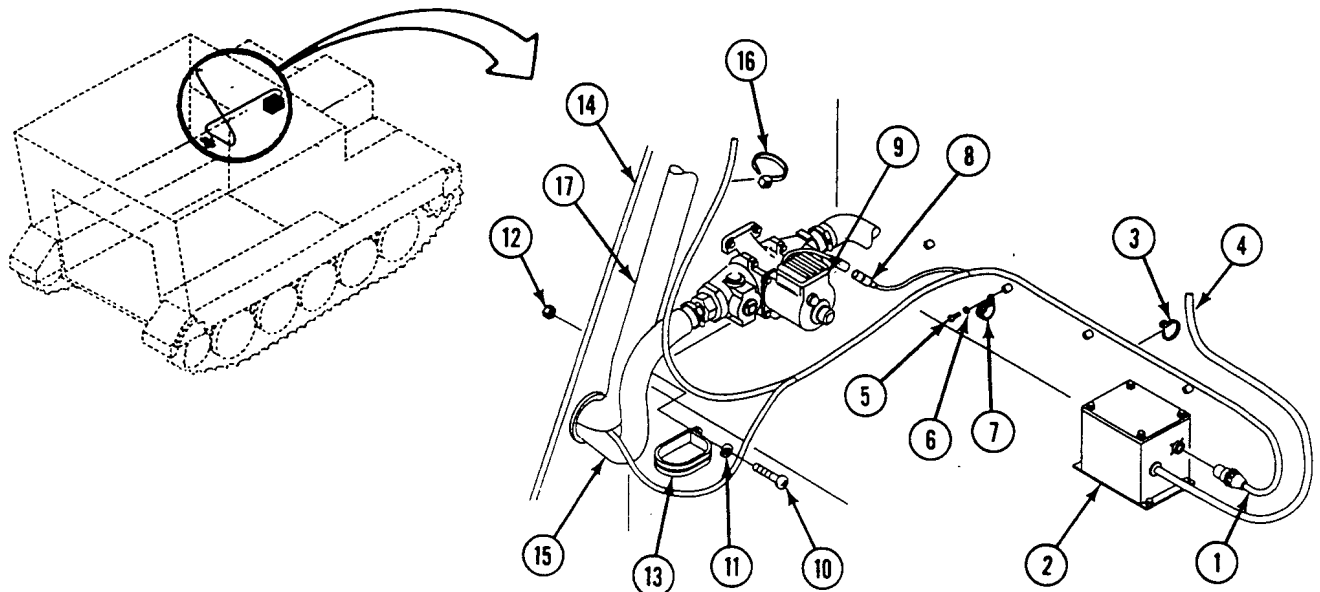
Lockwasher (10)

Lockwasher

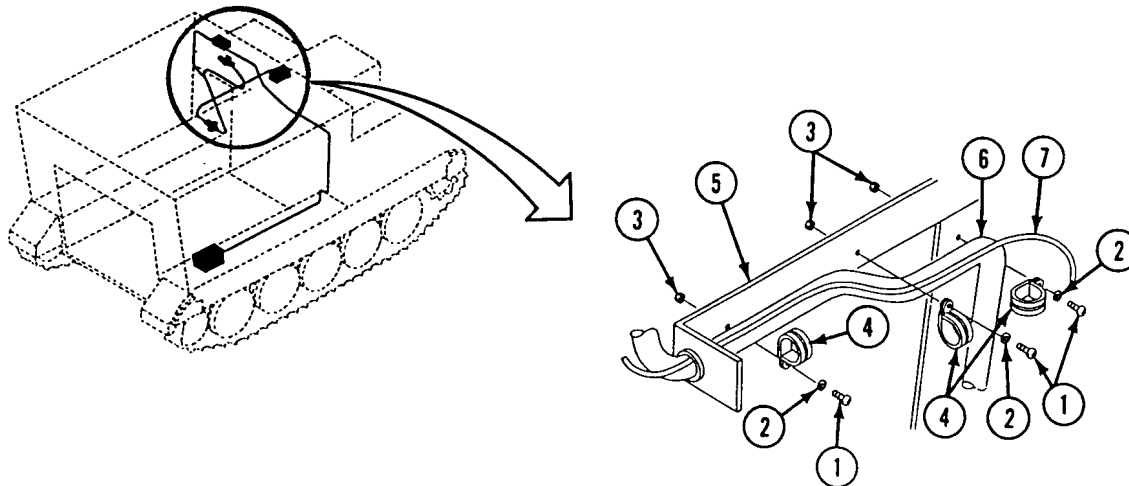
Tie strap (AR)

**REMOVAL**

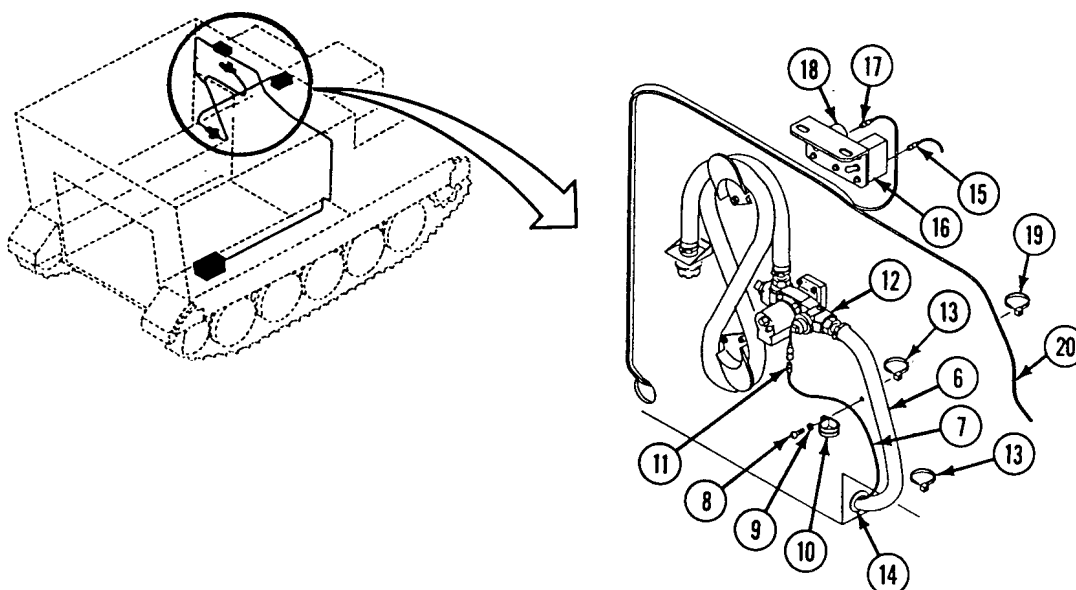
1. Disconnect wiring harness (1) from NBC control box (2).
2. Cut tie strap (3) that secures cable (4) to wiring harness (1). Discard tie strap.
3. Remove four screws (5), lockwashers (6), clamps (7), and wiring harness (1) from bulkhead weldnuts. Remove clamps from wiring harness. Discard lockwashers.
4. Remove circuit lead 537A (8) from driver's heater (9).
5. Remove screw (10), washer (11), locknut (12), and clamp (13) from frame (14). Remove clamp from driver's heater inlet hose (15) and wiring harness (1). Discard locknut.
6. Cut tie straps (16) that secure wiring harness (1) to commander's heater inlet hose (17). Discard tie straps.



7. Remove three screws (1), washers (2), locknuts (3), and clamps (4) from frame (5) and crossbeam. Remove clamps from commander's heater inlet hose (6) and wiring harness (7). Discard locknuts.



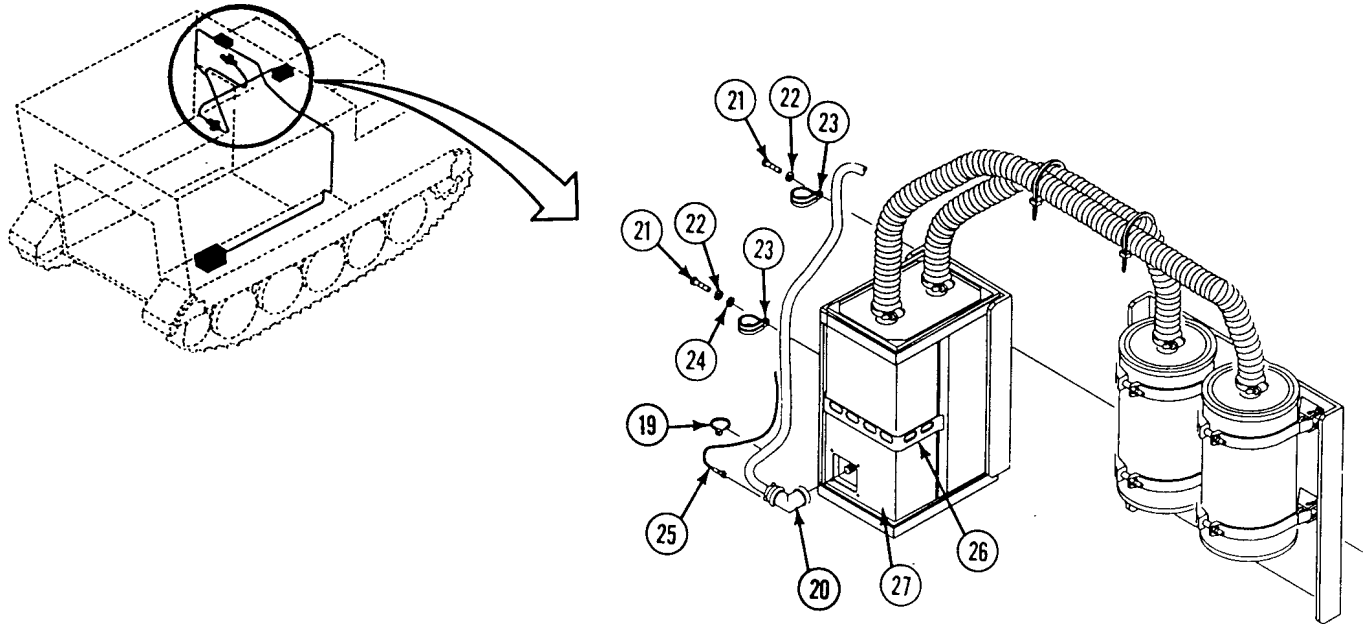
8. Remove screw (8), lockwasher (9), and clamp (10) from forward bulkhead. Remove clamp from hose (6) and wiring harness (7). Discard lockwasher.
9. Remove circuit lead 537B (11) from commander's heater (12).
10. Cut tie straps (13) that secure wiring harness (7) to adjacent wiring harnesses and hoses. Discard tie straps.
11. Pull circuit lead 537B (11) through grommet (14) on hose (6).
12. Remove circuit lead 579C (15) from air filter switch (16).
13. Remove circuit lead 537C (17) from air filter ON lamp (18).
14. Cut and remove all tie straps (19) along circuit lead 538A (20) and adjacent wiring harnesses. Discard tie straps.



**REPLACE M13 NBC HEATER WIRING HARNESS (M1068 ONLY) — Continued**

**0684 00**

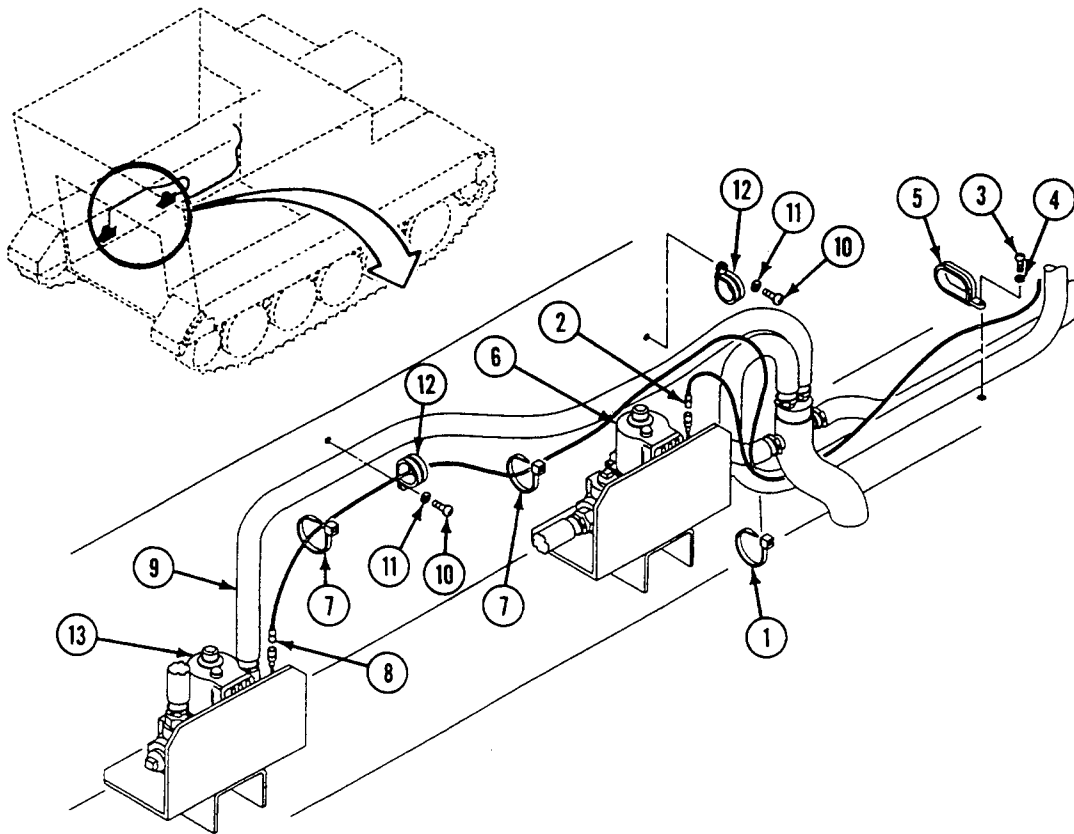
15. Remove two screws (21), lockwashers (22), and clamps (23), one lockwasher (24), and ground lead (25) from precleaner mounting bracket (26). Discard lockwashers.
16. Remove two clamps (23) from circuit lead 538A (20).
17. Remove circuit lead 538A (20) with ground lead (25) from precleaner (27).





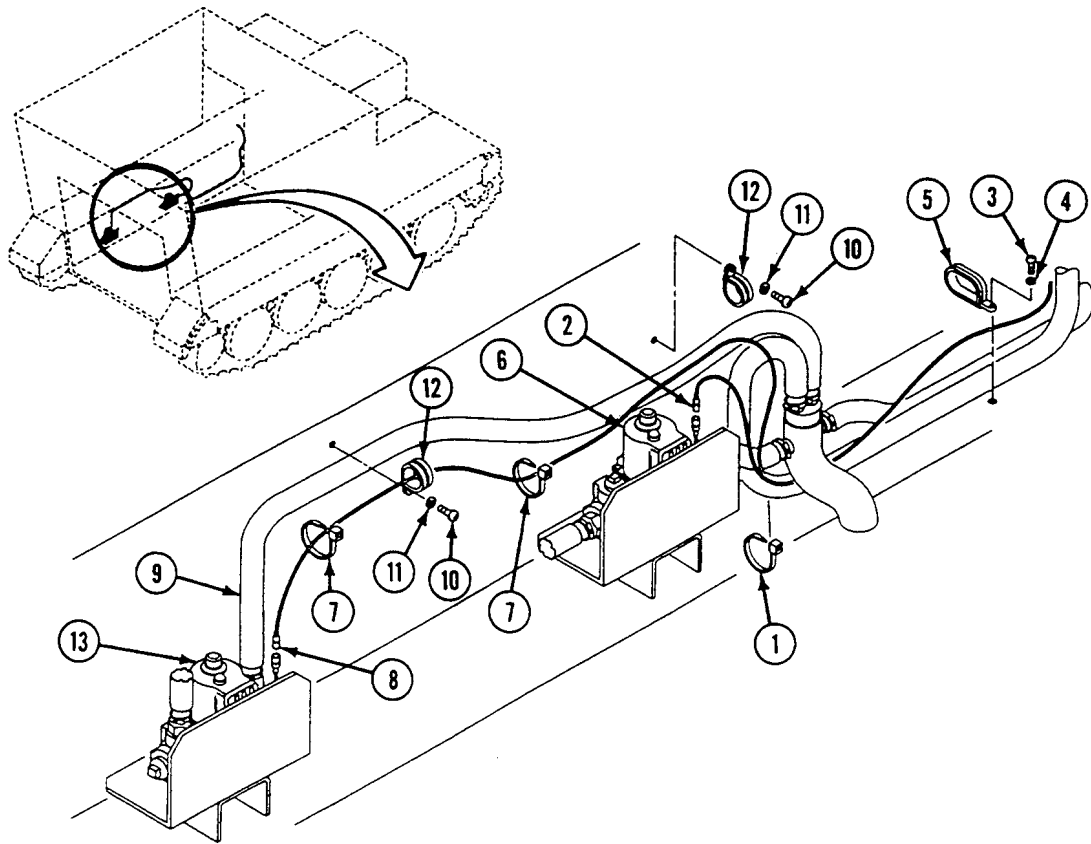
**REPLACE M13 NBC HEATER WIRING HARNESS (M1068 ONLY) — Continued****0684 00**

18. Cut tie straps (1) that secure circuit lead 537D (2) to adjacent hoses. Discard tie straps.
19. Remove screw (3), lockwasher (4), and clamp (5) from right sponson. Remove clamp from circuit lead 537D (2) and adjacent hoses. Discard lockwasher.
20. Remove circuit lead 537D (2) from front operator's heater (6).
21. Cut tie straps (7) that secure circuit lead 537E (8) to rear operator's heater inlet hose (9). Discard tie straps.
22. Remove two screws (10), lockwashers (11), and clamps (12) from right sponson. Remove clamps from circuit lead 537E (8) and rear operator's heater inlet hose (9). Discard lockwashers.
23. Remove circuit lead 537E (8) from rear operator's heater (13).



**INSTALLATION**

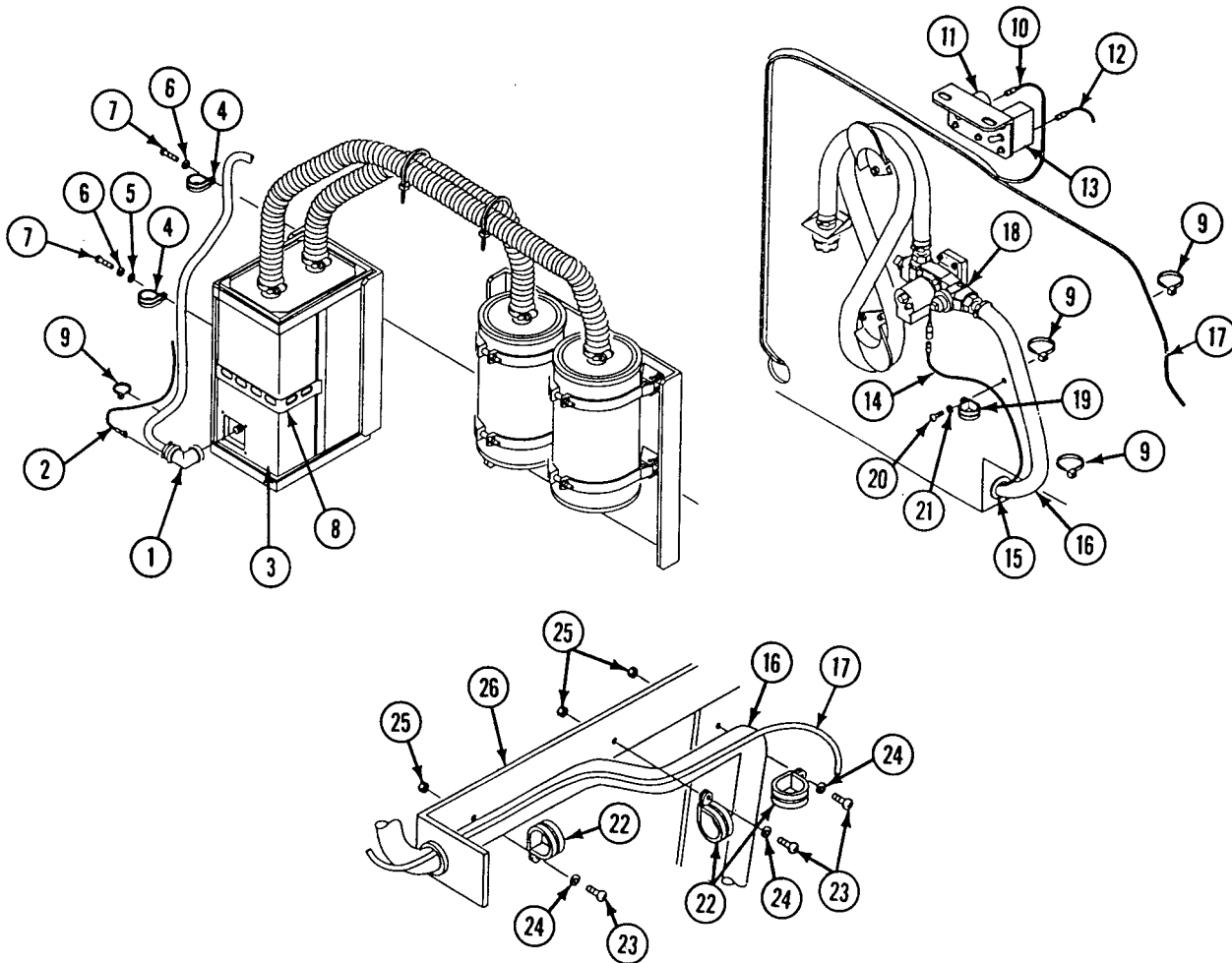
1. Install circuit lead 537E (8) on rear operator's heater (13).
2. Install two clamps (12) on circuit lead 537E (8) and rear operator's heater inlet hose (9). Secure clamps to right sponson with two screws (10) and new lockwashers (11).
3. Secure circuit lead 537E (8) to rear operator's heater inlet hose (9) with new tie straps (7).
4. Install circuit lead 537D (2) on front operator's heater (6).
5. Install clamp (5) on circuit lead 537D (2) and adjacent hoses. Secure with screw (3), new lockwasher (4), and clamp (5) on right sponson.
6. Secure circuit lead 537D (2) to adjacent hoses with new tie straps (1).



REPLACE M13 NBC HEATER WIRING HARNESS (M1068 ONLY) — Continued

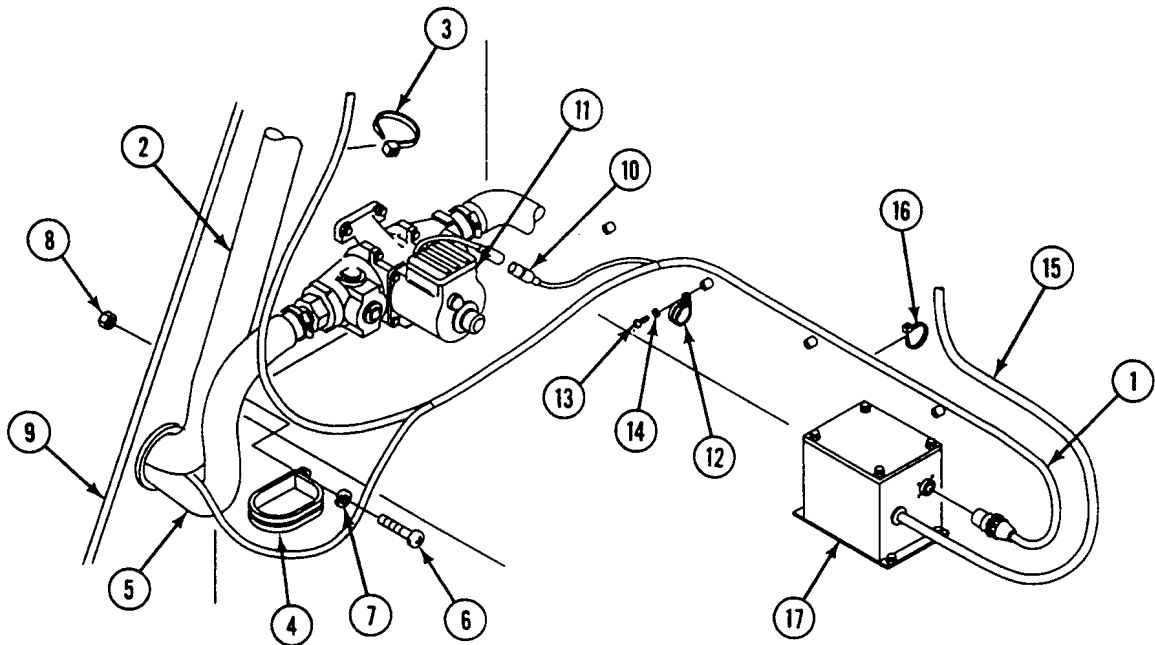
0684 00

7. Install circuit lead 538A (1) with ground lead (2) on precleaner (3).
8. Install two clamps (4) on circuit lead 538A (1).
9. Install ground lead (2), new lockwasher (5), two clamps (4), new lockwashers (6), and screws (7) on precleaner mounting bracket (8).
10. Secure lead 538A (1) to adjacent wiring harnesses with new tie straps (9).
11. Install circuit lead 579C (10) on air filter ON lamp (11).
12. Install circuit lead 537C (12) on air filter switch (13).
13. Push circuit lead 537B (14) through grommet (15) on commander's heater inlet hose (16).
14. Secure wiring harness (17) to adjacent wiring harnesses and hoses with new tie straps (9).
15. Install circuit lead 537B (14) on commander's heater (18).
16. Install clamp (19) on hose (16) and circuit lead 537B (14). Secure clamp with screw (20) and new lockwasher (21) on forward bulkhead.
17. Install three clamps (22) on hose (16) and wiring harness (17). Secure clamps with three screws (23), washers (24), and new locknuts (25) on frame (26) and crossbeam.



**REPLACE M13 NBC HEATER WIRING HARNESS (M1068 ONLY) — Continued****0684 00**

18. Secure wiring harness (1) to commander's heater inlet hose (2) with new tie straps (3).
19. Install clamp (4) on driver's heater inlet hose (5) and wiring harness (1). Secure clamp with screw (6), washer (7), and new locknut (8) on frame (9).
20. Install circuit lead 537A (10) on driver's heater (11).
21. Install four clamps (12) on wiring harness (1). Secure clamps with four screws (13) and new lockwashers (14) on bulkhead weldnuts.
22. Secure cable (15) to wiring harness (1) with new tie strap (16).
23. Install wiring harness (1) on NBC control box (17).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**



---

**REPLACE M3 NBC HEATER HOSES AND FITTINGS (M113A2  
AMBULANCE ONLY)**

---

**0685 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0685 00-2).  
Installation (page 0685 00-5).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Lockwasher (8)

Tie strap (AR)

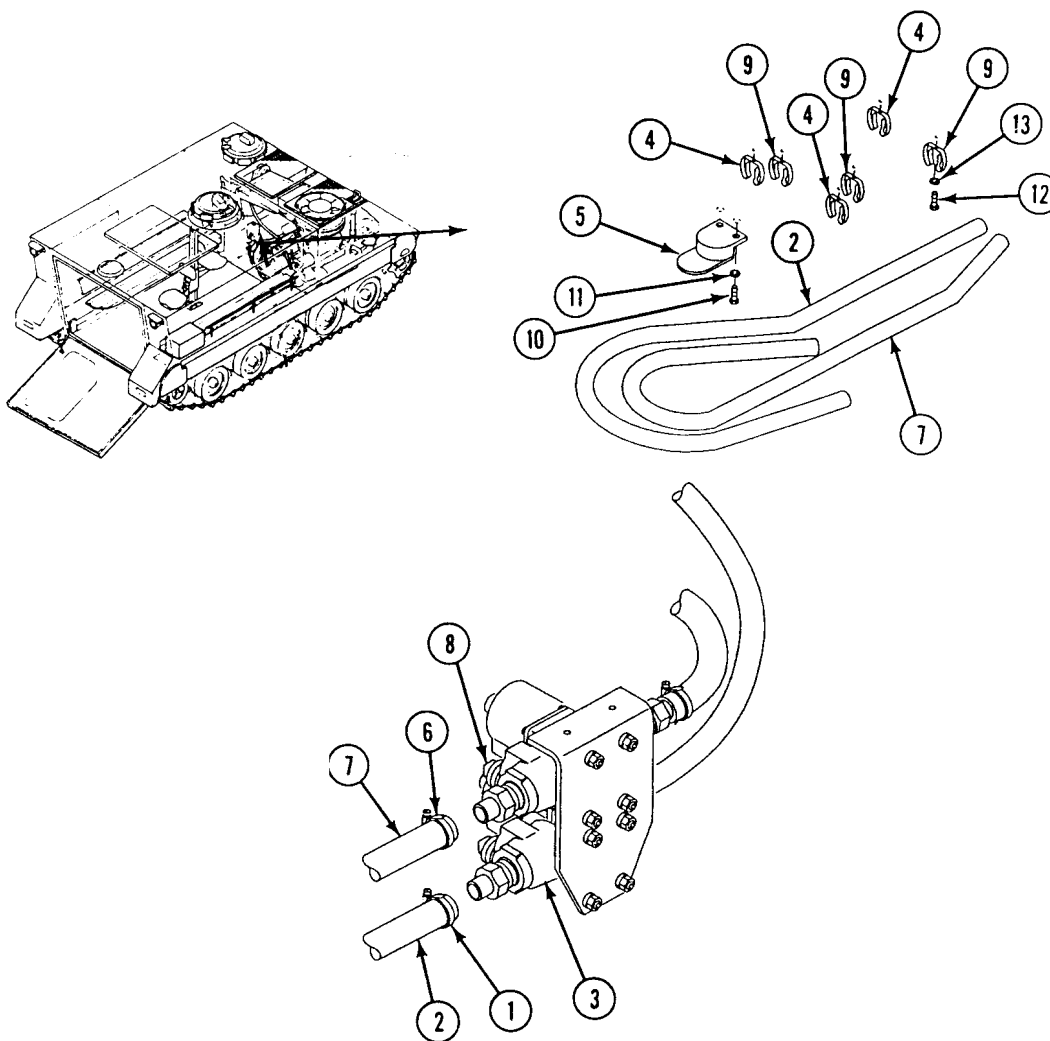
---

**REPLACE M3 NBC HEATER HOSES AND FITTINGS (M113A2 AMBULANCE ONLY) — Continued**

0685 00

**REMOVAL**

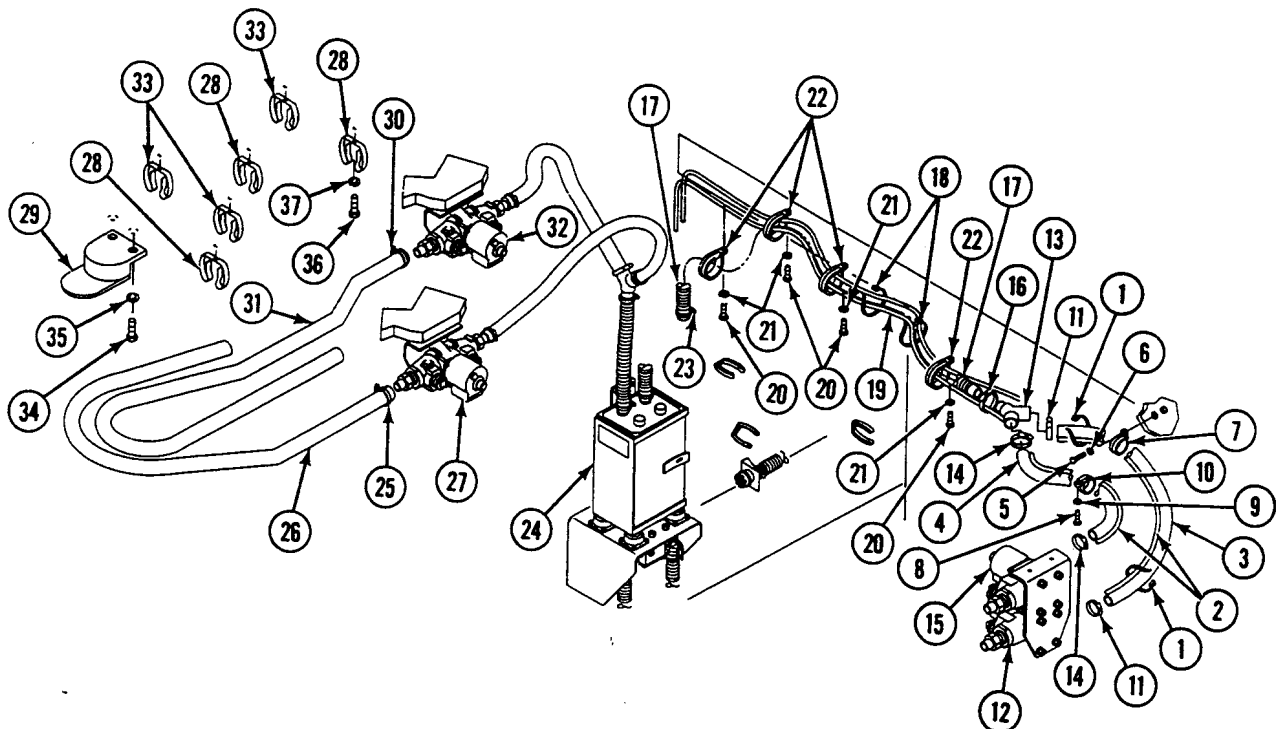
1. Loosen clamp (1) on patient's lower right outlet hose (2). Remove hose from lower right heater (3), three spring clips (4) and right bracket (5).
2. Loosen clamp (6) on patient's upper right outlet hose (7). Remove hose from upper right heater (8), three spring clips (9) and right bracket (5).
3. If right bracket (5) is damaged, remove two screws (10), lockwashers (11), and bracket from top plate. Discard lockwashers.
4. If any spring clip (4) or (9) is damaged, remove screw (12), lockwasher (13), and damaged clip from front bulkhead and top plate. Discard lockwashers.



**REPLACE M3 NBC HEATER HOSES AND FITTINGS (M113A2 AMBULANCE ONLY) — Continued**

0685 00

5. Cut and remove all tie straps (1) securing electrical leads (2) to right inlet hoses (3) and (4). Discard tie straps.
6. Remove screw (5), lockwasher (6), and clamp (7) from top plate. Remove clamp from patient's lower right inlet hose (3). Discard lockwasher.
7. Remove screw (8), lockwasher (9), and clamp (10) from top plate. Remove clamp from patient's upper right inlet hose (4). Discard lockwasher.
8. Loosen two clamps (11) on patient's lower right inlet hose (3). Remove hose from lower right heater (12) and Y-fitting (13).
9. Loosen two clamps (14) on patient's upper right inlet hose (4). Remove hose from upper right heater (15) and Y-fitting (13).
10. Loosen clamp (16) on right inlet hose (17). Remove hose from Y-fitting (13).
11. Cut and remove all tie straps (18) securing wiring harness (19) to right inlet hose (17). Discard tie straps.
12. Remove four screws (20), lockwashers (21), and clamps (22) from top plate. Remove clamps from right inlet hose (17). Discard lockwashers.
13. Loosen clamp (23) on right inlet hose (17). Remove hose from air purifier (24).
14. Loosen clamp (25) on patient's left rear outlet hose (26). Remove hose from left rear heater (27), three spring clips (28), and left bracket (29).
15. Loosen clamp (30) on patient's left forward outlet hose (31). Remove hose from left forward heater (32), three spring clips (33), and left bracket (29).
16. If left bracket (29) is damaged, remove two screws (34), lockwashers (35), and bracket from top plate. Discard lockwashers.
17. If any spring clip (28) or (33) is damaged, remove screw (36), lockwasher (37), and damaged clip from front bulkhead and top plate. Discard lockwashers.

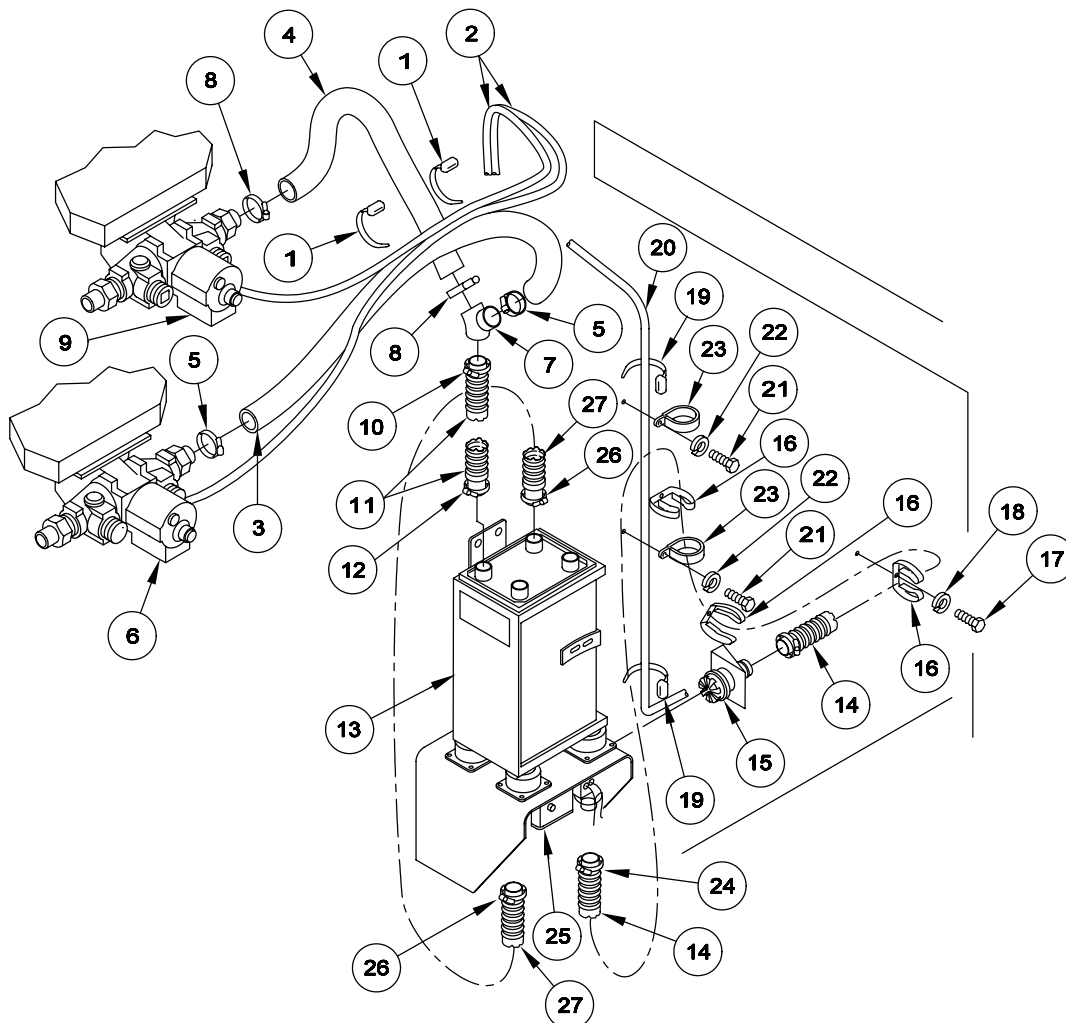




**REPLACE M3 NBC HEATER HOSES AND FITTINGS (M113A2 AMBULANCE ONLY) — Continued**

0685 00

18. Cut and remove all tie straps (1) securing electrical leads (2) to left inlet hoses (3) and (4). Discard tie straps.
19. Loosen two clamps (5) on patient's left rear inlet hose (3). Remove hose from left rear heater (6) and Y-fitting (7).
20. Loosen two clamps (8) on patient's left forward inlet hose (4). Remove hose from left forward heater (9) and Y-fitting (7).
21. Loosen clamp (10) on left inlet hose (11). Remove hose from Y-fitting (7).
22. Loosen clamp (12) on left inlet hose (11). Remove hose from air purifier (13).
23. Remove hose (14) from connector (15) and three spring clips (16).
24. If any spring clip (16) is damaged, remove screw (17), lockwasher (18), and damaged clip from driver's bulkhead. Discard lockwashers.
25. Cut and remove all tie straps (19) securing electrical leads (20) to outlet hose (14). Discard tie straps.
26. Remove two screws (21), lockwashers (22), and clamps (23) from bulkhead. Remove clamps from outlet hose (14). Discard lockwashers.
27. Loosen clamp (24) on outlet hose (14). Remove hose from heater (25).
28. Loosen two clamps (26) on inlet hose (27). Remove hose from heater (25) and air purifier (13).

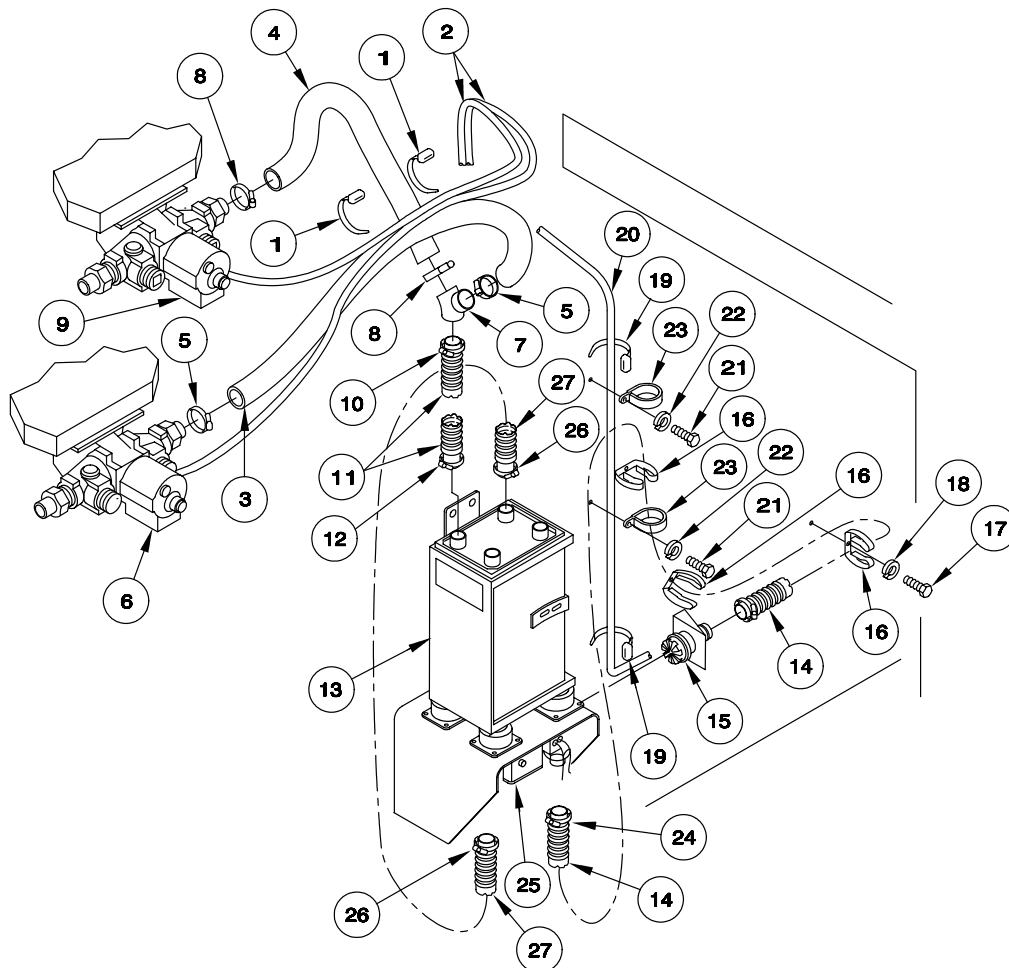


**REPLACE M3 NBC HEATER HOSES AND FITTINGS (M113A2 AMBULANCE ONLY) — Continued**

0685 00

**INSTALLATION**

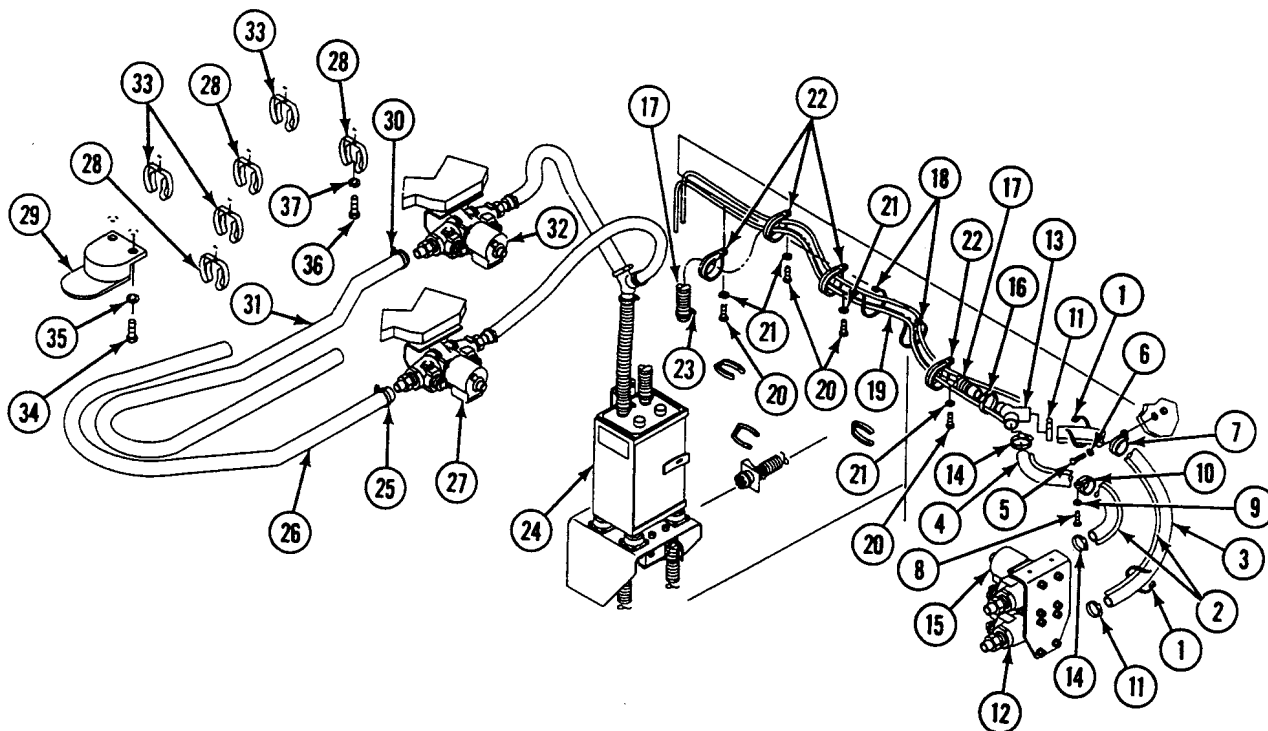
1. Install inlet hose (27) and clamp (26) on air purifier (13). Tighten clamp.
2. Install inlet hose (27) and clamp (26) on heater (25). Tighten clamp.
3. Install outlet hose (14) and clamp (24) on heater (25). Tighten clamp.
4. Install two clamps (23) on outlet hose (14). Secure clamps to bulkhead with two screws (21) and new lockwashers (22).
5. Secure electrical leads (20) to outlet hose (14) with new tie straps (19) as required.
6. If removed, install spring clips (16) on driver's bulkhead with screws (17) and new lockwashers (18).
7. Install outlet hose (14) in three spring clips (16) on driver's bulkhead.
8. Install outlet hose (14) on connector (15).
9. Install inlet hose (11) and clamp (12) on air purifier (13). Tighten clamp.
10. Install inlet hose (11) and clamp (10) on Y-fitting (7). Tighten clamp.
11. Install two clamps (8) and patient's left forward inlet hose (4) on Y-fitting (7) and left forward heater (9). Tighten clamps.
12. Install two clamps (5) and patient's left rear inlet hose (3) on Y-fitting (7) and left rear heater (6). Tighten clamps.
13. Secure wiring harness (2) to inlet hoses (4) and (3) with new tie straps (1) as required.



**REPLACE M3 NBC HEATER HOSES AND FITTINGS (M113A2 AMBULANCE ONLY) — Continued**

0685 00

14. If removed, install spring clips (28) on top plate with screws (36) and new lockwashers (37).
15. If removed, install left bracket (29) on top plate with two screws (34) and new lockwashers (35).
16. Install clamp (30) and patient's left forward outlet hose (31) on left forward heater (32), three spring clips (33), and left bracket (29). Tighten clamp.
17. Install clamp (25) and patient's left rear outlet hose (26) on left rear heater (27), three spring clips (28), and left bracket (29). Tighten clamp.
18. Install patient's right inlet hose (17) and clamp (23) on air purifier (24). Tighten clamp.
19. Install four clamps (22) on patient's right inlet hose (17). Secure clamps to top plate with four screws (20) and new lockwashers (21).
20. Secure wiring harness (19) to right inlet hose (17) with new tie straps (18) as required.
21. Install right inlet hose (17) and clamp (16) on Y-fitting (13). Tighten clamp.
22. Install two clamps (14) and patient's upper right inlet hose (4) on Y-fitting (13) and upper right heater (15). Tighten clamps.
23. Install two clamps (11) and patient's lower right inlet hose (3) on Y-fitting (13) and lower right heater (12). Tighten clamps.
24. Install clamp (10) on patient's upper right inlet hose (4). Secure clamp to top plate with screw (8) and new lockwasher (9).
25. Install clamp (7) on patient's lower right inlet hose (3). Secure clamp to top plate with screw (5) and new lockwasher (6).
26. Secure electrical leads (2) to inlet hoses (4) and (3) with new tie straps (1) as required.



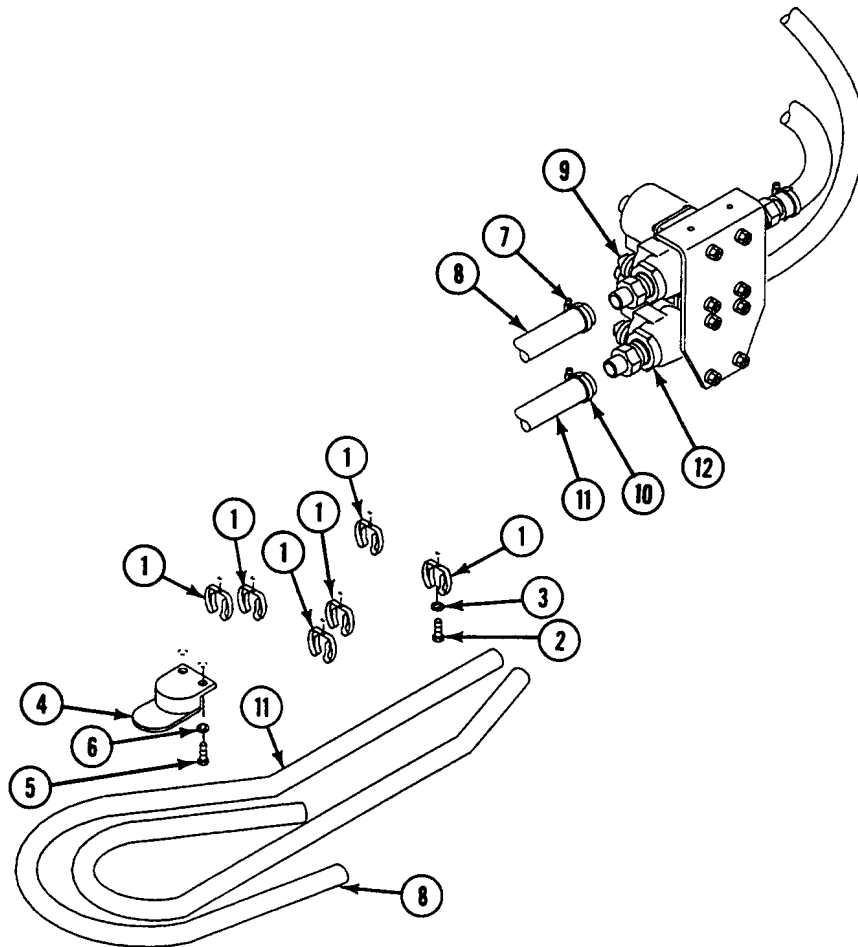
---

**REPLACE M3 NBC HEATER HOSES AND FITTINGS (M113A2 AMBULANCE ONLY) — Continued**


---

0685 00

27. If removed, install spring clips (1) on top plate with screws (2) and new lockwashers (3).
28. If removed, install right bracket (4) on top plate with two screws (5) and new lockwashers (6).
29. Install clamp (7) and patient's upper right outlet hose (8) on upper right heater (9), three spring clips (1), and right bracket (4). Tighten clamp.
30. Install clamp (10) and patient's lower right outlet hose (11) on lower right heater (12), three spring clips (1), and right bracket (4). Tighten clamp.

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Check air flow of NBC system. See TM 3-6680-316-10.

**END OF TASK**



**REPLACE M3 NBC FILTER SWITCH ASSEMBLY (M113A2  
AMBULANCE ONLY)**

**0686 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0686 00-1).  
Installation (page 0686 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

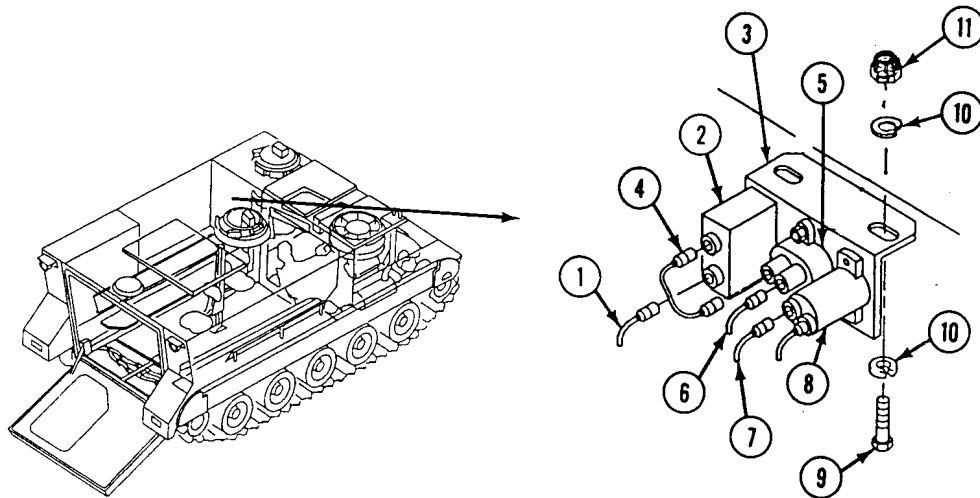
Materials/Parts

Locknut (2)

Lockwasher (4)

**REMOVAL**

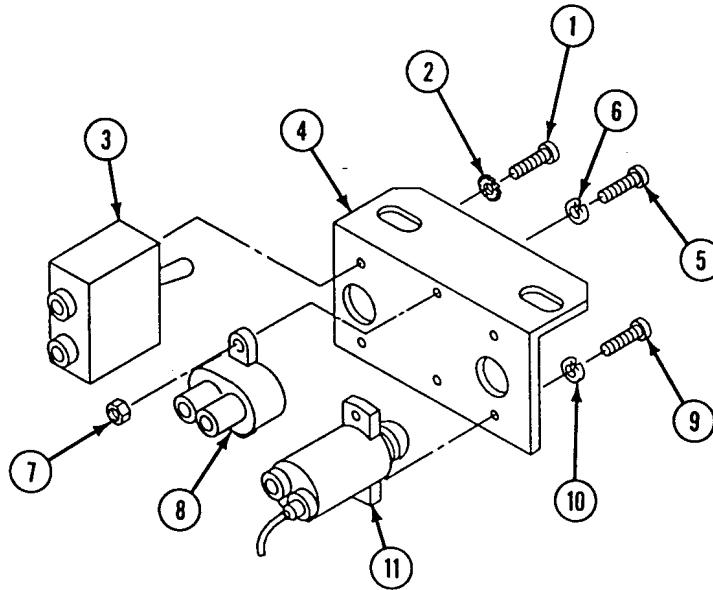
1. Remove circuit 579C lead (1) from air filter switch (2) on switch assembly (3).
2. Remove jumper lead (4) from air filter switch (2) and circuit breaker (5).
3. Remove circuit 579A lead (6) from circuit breaker (5).
4. Remove circuit 537F lead (7) from air filter ON lamp (8).
5. Remove two mounting screws (9), four lockwashers (10), two locknuts (11), and switch assembly (3) from instrument panel. Discard lockwashers and locknuts.



**REPLACE M3 NBC FILTER SWITCH ASSEMBLY (M113A2 AMBULANCE ONLY) — Continued****0686 00****NOTE**

**Remove following components, as needed, for repair of switch assembly.**

6. Remove two screws (1), lockwashers (2), and air filter switch (3) from switch assembly (4). Discard lockwashers.
7. Remove two screws (5), lockwashers (6), nuts (7), and circuit breaker (8) from switch assembly (4). Discard lockwashers.
8. Remove two screws (9), lockwashers (10), and air filter ON lamp (11) from switch assembly (4). Discard lockwashers.



---

**REPLACE M3 NBC FILTER SWITCH ASSEMBLY (M113A2 AMBULANCE ONLY) — Continued**

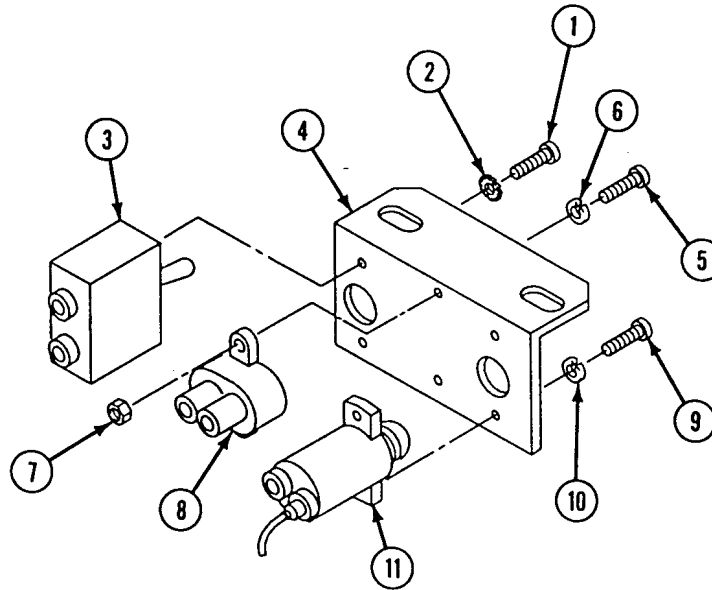
---

0686 00

**INSTALLATION****NOTE**

Install following components, as needed, for repair of switch assembly.

1. Install air filter ON lamp (11) on switch assembly (4). Secure with two screws (9) and new lockwashers (10).
2. Install circuit breaker (8) on switch assembly (4). Secure with two screws (5), new lockwashers (6), and nuts (7).
3. Install air filter switch (3) on switch assembly (4). Secure with two screws (1) and new lockwashers (2).

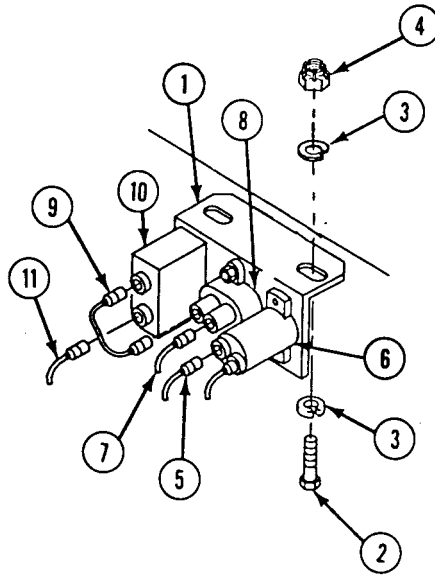




**REPLACE M3 NBC FILTER SWITCH ASSEMBLY (M113A2 AMBULANCE ONLY) — Continued**

0686 00

4. Install switch assembly (1) on instrument panel. Secure with two mounting screws (2), four new lockwashers (3), and two new locknuts (4).
5. Install circuit 537F lead (5) on air filter ON lamp (6).
6. Install circuit 579A lead (7) on circuit breaker (8).
7. Install jumper lead (9) on air filter switch (10) and circuit breaker (8).
8. Install circuit 579C lead (11) on air filter switch (10).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**

**REPLACE M3 NBC HEATERS AND CONTROLLERS (M113A2  
AMBULANCES ONLY)**

**0687 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0687 00-1).  
Installation (page 0687 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

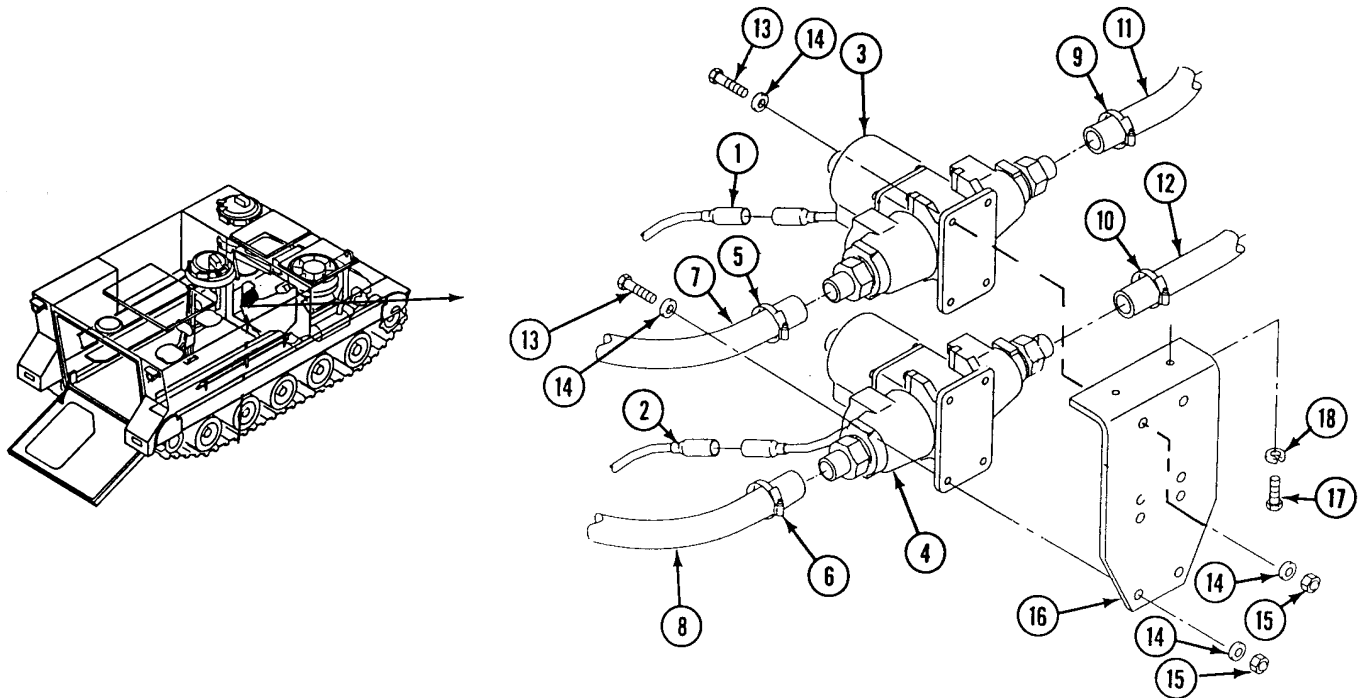
Materials/Parts

Locknut (24)

Tie strap (AR)

**REMOVAL**

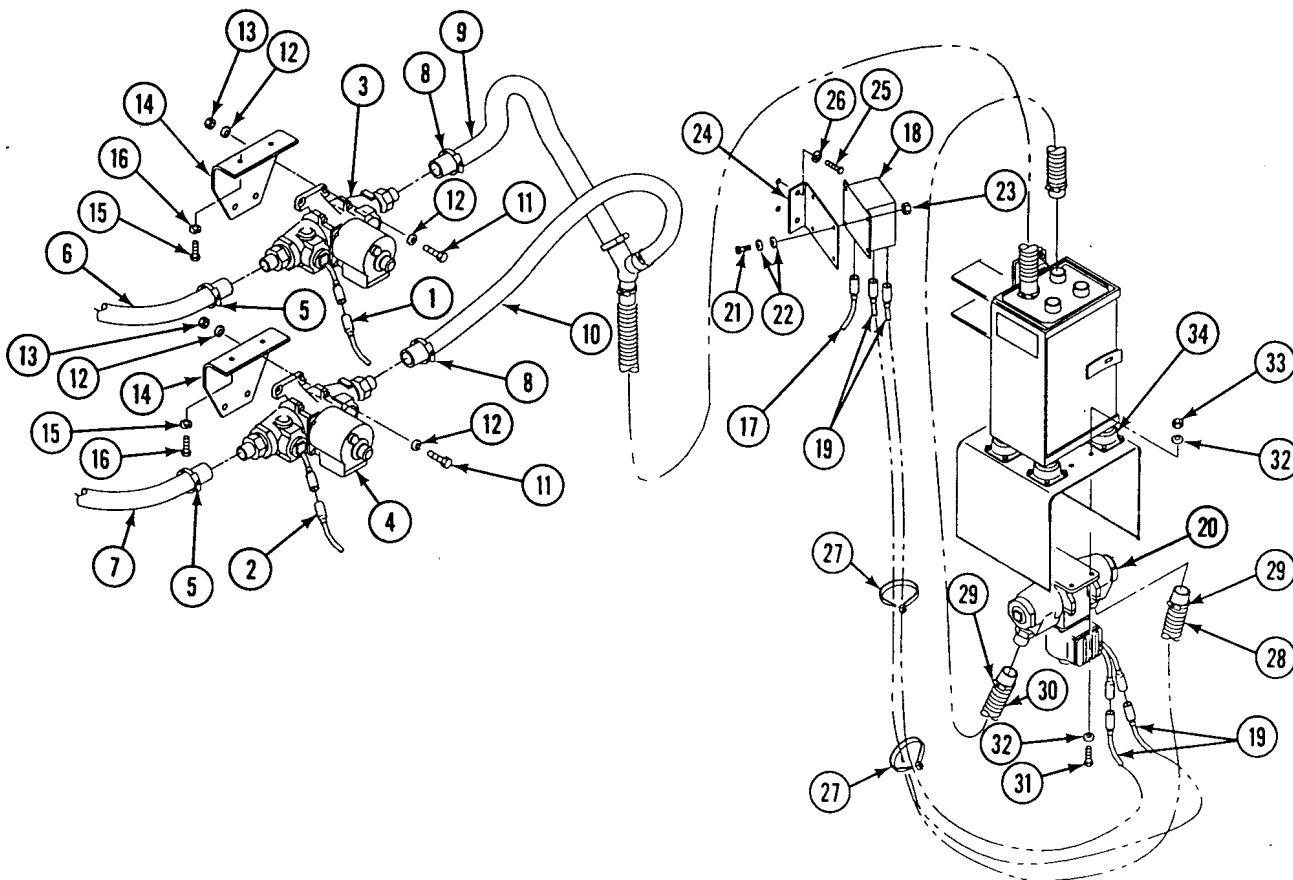
1. Disconnect circuit lead 537A (1) and circuit lead 537B (2) from upper and lower heaters (3) and (4) on right side of carrier.
2. Loosen clamps (5) and (6). Remove upper and lower outlet hoses (7) and (8) from upper and lower heater (3) and (4).
3. Loosen clamps (9) and (10). Remove upper and lower inlet hoses (11) and (12) from upper and lower heaters (3) and (4).
4. Remove eight screws (13), 16 washers (14), eight locknuts (15), and upper and lower heater (3) and (4) from bracket (16). Discard locknuts.
5. If damaged, remove two screws (17), lockwashers (18), and bracket (16) from hull top plate. Discard lockwashers.



**REPLACE M3 NBC HEATERS AND CONTROLLERS (M113A2 AMBULANCES ONLY) — Continued**

0687 00

6. Disconnect circuit lead 537C (1) and circuit lead 537D (2) from forward and rear heaters (3) and (4) on left side of carrier.
7. Loosen clamps (5). Remove forward and rear outlet hoses (6) and (7) from forward and rear heaters (3) and (4).
8. Loosen clamps (8). Remove forward and rear inlet hoses (9) and (10) from forward and rear heaters (3) and (4).
9. Remove eight screws (11), 16 washers (12), eight locknuts (13), and upper heater (3) and lower heater (4) from two brackets (14). Discard locknuts.
10. If damaged, remove four screws (15), lockwashers (16), and brackets (14) from bulkhead. Discard lockwashers.
11. Disconnect circuit lead 537G (17) from driver's controller (18).
12. Disconnect two leads (19) from driver's controller (18) and driver's heater (20).
13. Remove four screws (21), eight washers (22), four locknuts (23), and driver's controller (18) from bracket (24). Discard locknuts.
14. If damaged, remove two screws (25), lockwashers (26), and bracket (24) from bulkhead. Discard lockwashers.
15. Cut tie straps (27) and remove two leads (19) from adjacent driver's outlet hose (28). Discard tie straps.
16. Loosen clamps (29). Remove driver's outlet hose (28) and driver's inlet hose (30) from driver's heater (20).
17. Remove four screws (31), eight washers (32), four locknuts (33), and driver's heater (20) from welded mount (34). Discard locknuts.

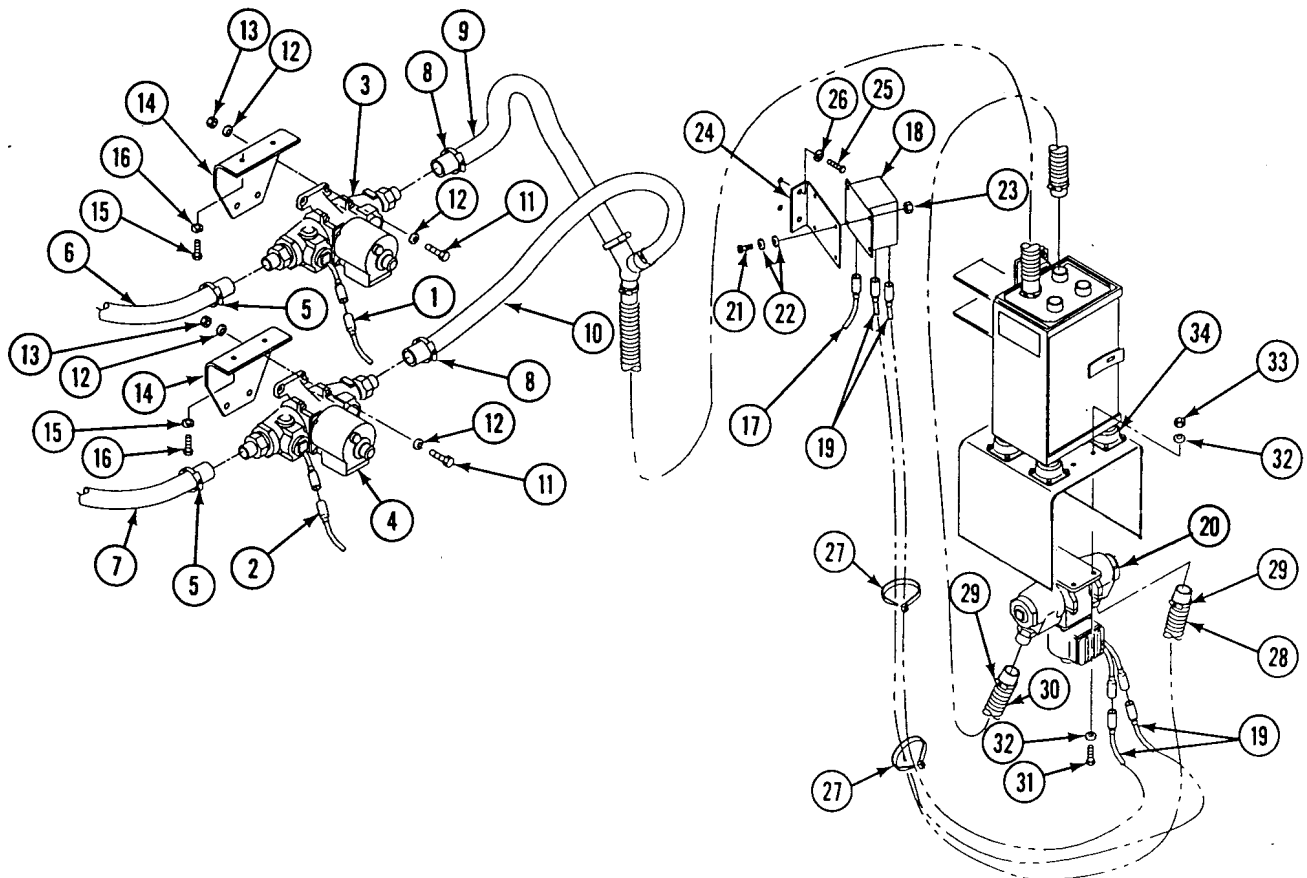


**REPLACE M3 NBC HEATERS AND CONTROLLERS (M113A2 AMBULANCES ONLY) — Continued**

0687 00

**INSTALLATION**

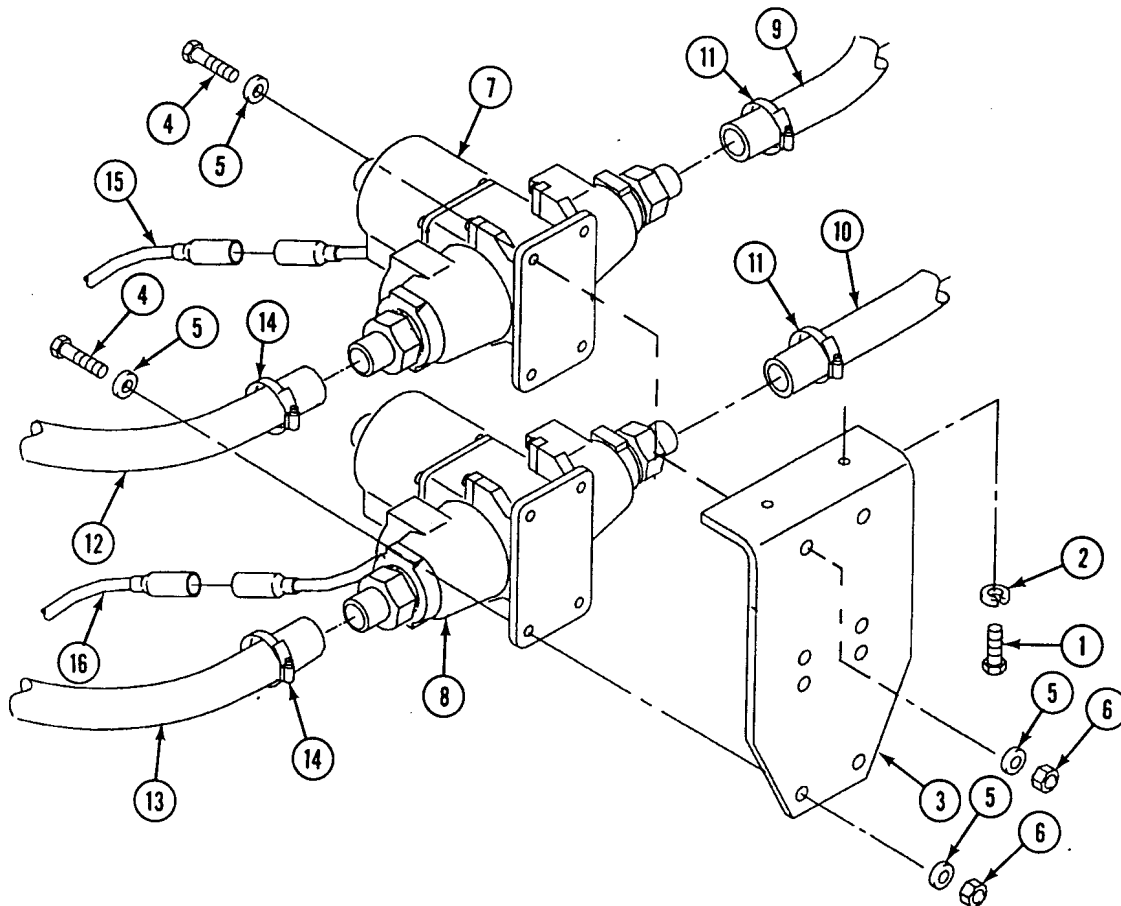
1. Install four screws (31), eight washers (32), four new locknuts (33), and driver's heater (20) on welded mount (34).
2. Install driver's outlet hose (28) and driver's inlet hose (30) on driver's heater (20). Tighten clamps (29).
3. Install new tie straps (27) on two leads (19) and adjacent heater hose (28).
4. If removed, install two screws (25), new lockwashers (26), and bracket (24) on bulkhead.
5. Install four screws (21), eight washers (22), four new locknuts (23), and driver's controller (18) on bracket (24).
6. Connect two leads (19) to driver's controller (18) and driver's heater (20).
7. Connect circuit lead 537G (17) to driver's controller (18).
8. If removed, install four screws (15), new lockwashers (16), and brackets (14) on bulkhead.
9. Install eight screws (11), 16 washers (12), eight new locknuts (13), and two heaters (3) and (4) on two brackets (14).
10. Install forward and rear inlet hoses (9) and (10) on forward and rear heaters (3) and (4). Tighten clamps (8).
11. Install forward and rear outlet hoses (6) and (7) on forward and rear heaters (3) and (4). Tighten clamps (5).
12. Connect circuit lead 537C (1) and circuit lead 537D (2) to forward and rear heaters (3) and (4) on left side of carrier.



**REPLACE M3 NBC HEATERS AND CONTROLLERS (M113A2 AMBULANCES ONLY) — Continued**

0687 00

13. If removed, install two screws (1), new lockwashers (2), and bracket (3) on hull top plate.
14. Install eight screws (4), 16 washers (5), eight new locknuts (6), upper and lower heater (7) and (8) on bracket (3).
15. Install upper and lower inlet hoses (9) and (10) on upper and lower heater (7) and (8). Tighten clamps (11).
16. Install upper and lower outlet hoses (12) and (13) on upper and lower heater (7) and (8). Tighten clamps (14).
17. Connect circuit lead 537A (15) and circuit lead 537B (16) to upper and lower heaters (7) and (8) on right side of carrier.


**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Check air flow of NBC system. See TM 3-6680-316-10.

**END OF TASK**

---

**REPLACE M14 NBC HOSES AND BRACKETS (M113A2  
AMBULANCE ONLY)**

---

**0688 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0688 00-2).  
Installation (page 0688 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Materials/Parts

Lockwasher (21)

Battery ground lead disconnected (WP 0294 00)

---

**REPLACE M14 NBC HOSES AND BRACKETS (M113A2 AMBULANCE ONLY) — Continued**

0688 00

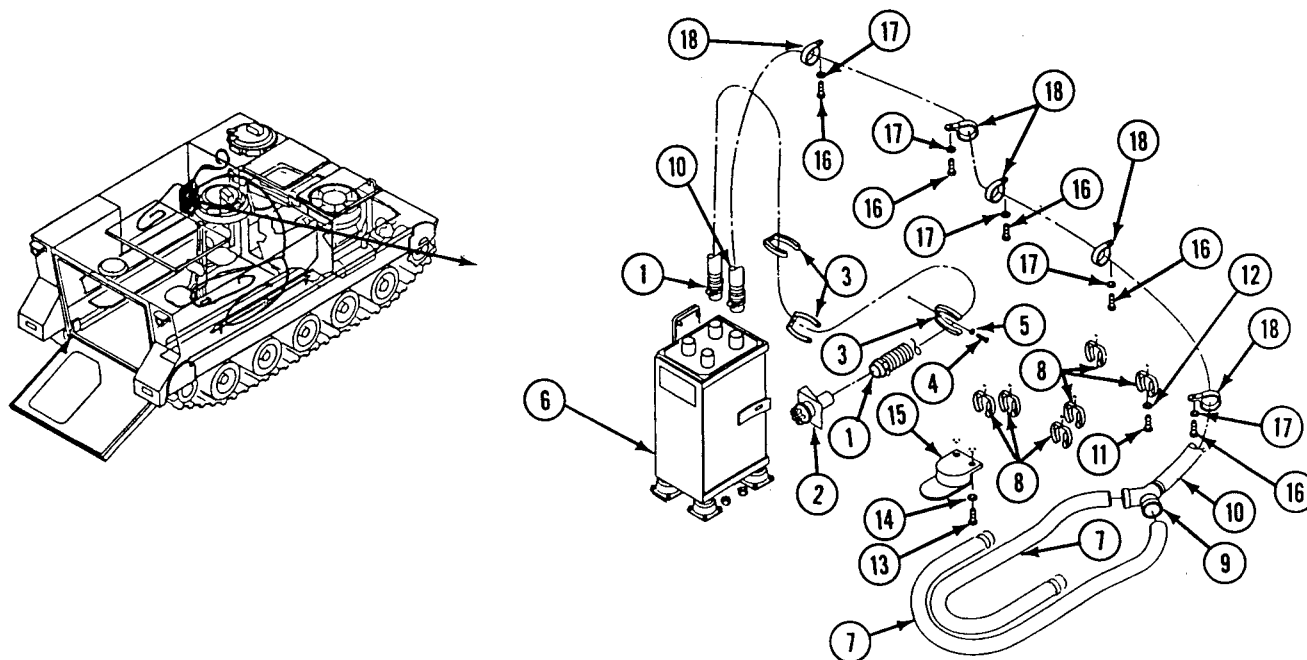
**REMOVAL**

1. Remove driver's hose (1) from connector (2) and three clips (3).
2. Remove three screws (4), lockwashers (5), and clips (3) from driver's bulkhead. Discard lockwashers.
3. Loosen clamp and remove hose (1) from air purifier (6).

**NOTE**

**Hospital headpiece not shown. Remove headpiece, if connected.**

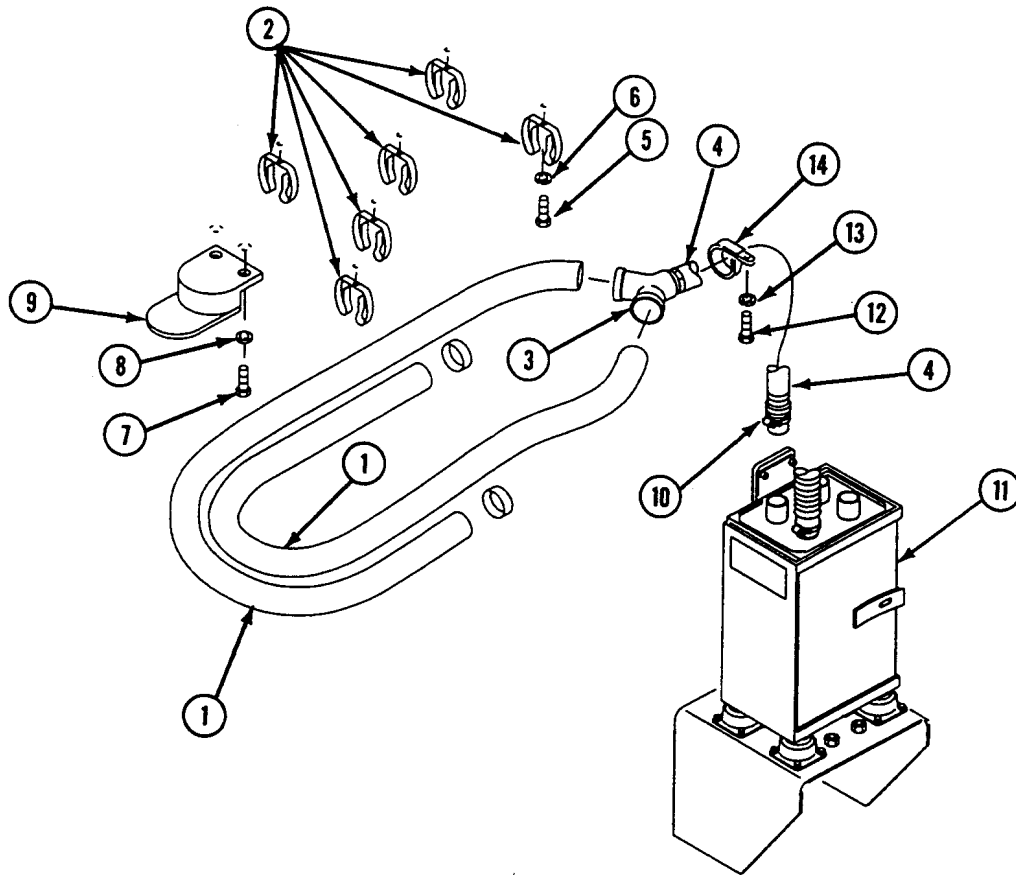
4. Remove two hoses (7) from six spring clips (8) and Y-connector (9) on hose assembly (10).
5. Remove six screws (11), lockwashers (12), and clips (8) from top plate. Discard lockwashers.
6. Remove two screws (13), washers (14), and bracket (15) from top plate.
7. Release quick-disconnect coupling and remove hose (10) from air purifier (6).
8. Remove five screws (16), lockwashers (17), and clamps (18) from top plate. Remove clamps from hose assembly (10). Discard lockwashers.



**REPLACE M14 NBC HOSES AND BRACKETS (M113A2 AMBULANCE ONLY) — Continued**

0688 00

9. Remove two hoses (1) from six spring clips (2) and Y-connector (3) on hose assembly (4).
10. Remove six screws (5), lockwashers (6), and clips (2) from top plate. Discard lockwashers.
11. Remove two screws (7), washers (8), and bracket (9) from top plate.
12. Release quick disconnect coupling (10) and remove hose (4) from air purifier (11).
13. Remove screw (12), lockwasher (13), and clamp (14) from top plate. Remove clamps from hose assembly (4). Discard lockwasher.



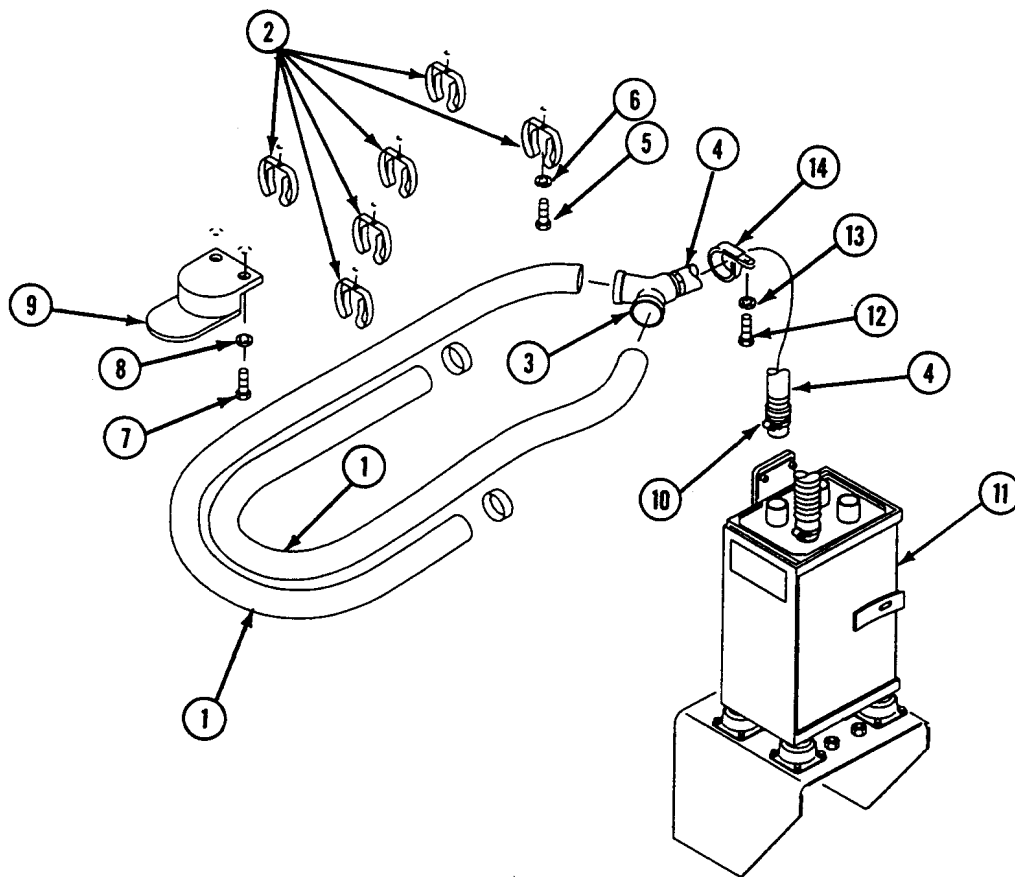


**REPLACE M14 NBC HOSES AND BRACKETS (M113A2 AMBULANCE ONLY) — Continued**

0688 00

**INSTALLATION**

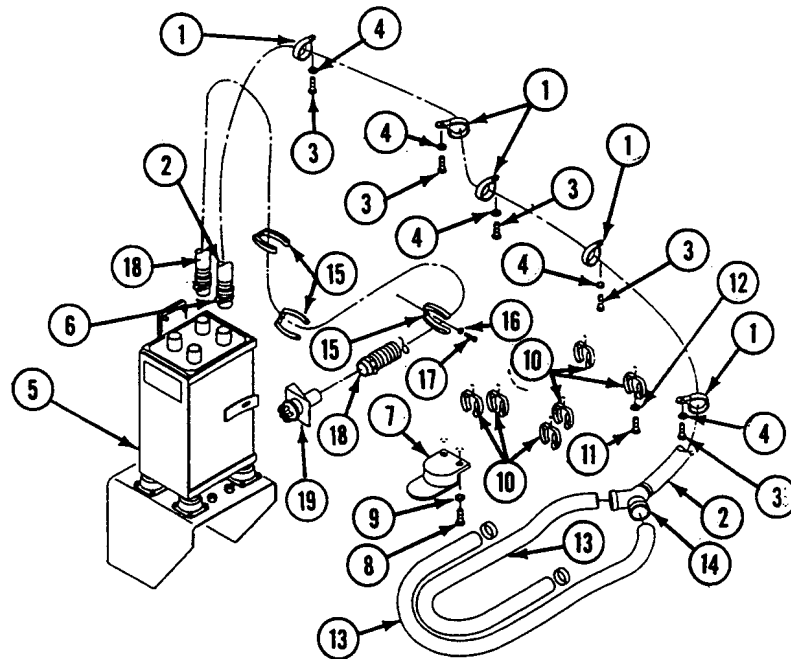
1. Install clamp (14) on hose assembly (4). Secure clamp to top plate with screw (12) and new lockwasher (13).
2. Install hose assembly (4) on air purifier (11).
3. Install bracket (9), two screws (7), and washers (8) on top plate.
4. Install six clips (2), screws (5), and new lockwashers (6) on top plate.
5. Install two hoses (1) on Y-connector (3) of hose assembly (4).
6. Route two hoses (1) around bracket (9), and insert in six clips (2).



**REPLACE M14 NBC HOSES AND BRACKETS (M113A2 AMBULANCE ONLY) — Continued**

0688 00

7. Install five clamps (1) on hose assembly (2). Secure clamp to top plate with five screws (3) and new lockwashers (4).
8. Install hose assembly (2) on air purifier (5).
9. Install bracket (7), two screws (8), and washers (9) on top plate.
10. Install six clips (10), screws (11), and new lockwashers (12) on top plate.
11. Install two hoses (13) on Y-connector (14) of hose assembly (2).
12. Route two hoses (13) around bracket (7) and insert in six clips (10).
13. Install three clips (15), new lockwashers (16), and screws (17) on driver's bulkhead.
14. Install driver's hose (18) on air purifier (5), three clips (15), and connector (19).



**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Check air flow of NBC system. See TM 3-6680-316-10.

**END OF TASK**



---

**REPLACE M8A3/M14 AIR PURIFIER AND FRAME (M113A2 ONLY)**

---

**0689 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0689 00-2).  
Installation (page 0689 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 3-6680-316-10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Locknuts (20)

Locknuts (5)

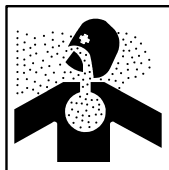
Personnel Required

Unit Mechanic

---

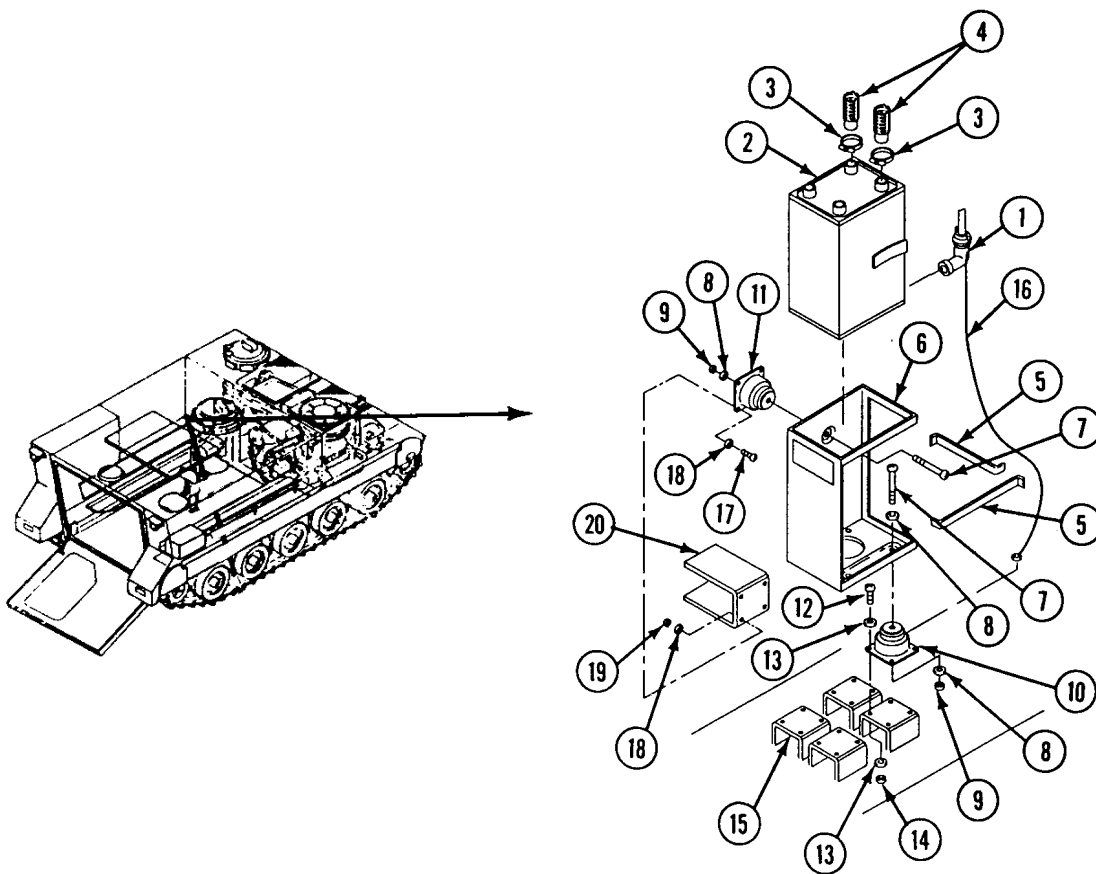
REMOVAL

**WARNING**



**Contaminated filters are hazardous to personnel. Use precautions when handling filters. Dispose of filters using trained chemical environment personnel.**

1. Disconnect power cable (1) from air purifier (2).
2. For the M8A3 purifier, loosen two clamps (3) and remove two hoses (4) and clamps from air purifier (2). For the M14 purifier, loosen three clamps (3), and remove three hoses (4) and clamps from air purifier (2).
3. Unfasten latch (5) and lift air purifier (2) from frame assembly (6).
4. Remove five screws (7), ten washers (8), five locknuts (9), and frame assembly (6) from five mounts (10) and (11). Discard locknuts.
5. Remove 16 screws (12), 32 washers (13), 16 locknuts (14), and four mounts (10) from welded frame (15). Discard locknuts.
6. Remove ground wire lead (16).
7. Remove four screws (17), eight washers (18), four locknuts (19), and mount (11) from welded frame (20). Discard locknuts.



**INSTALLATION**

**NOTE**

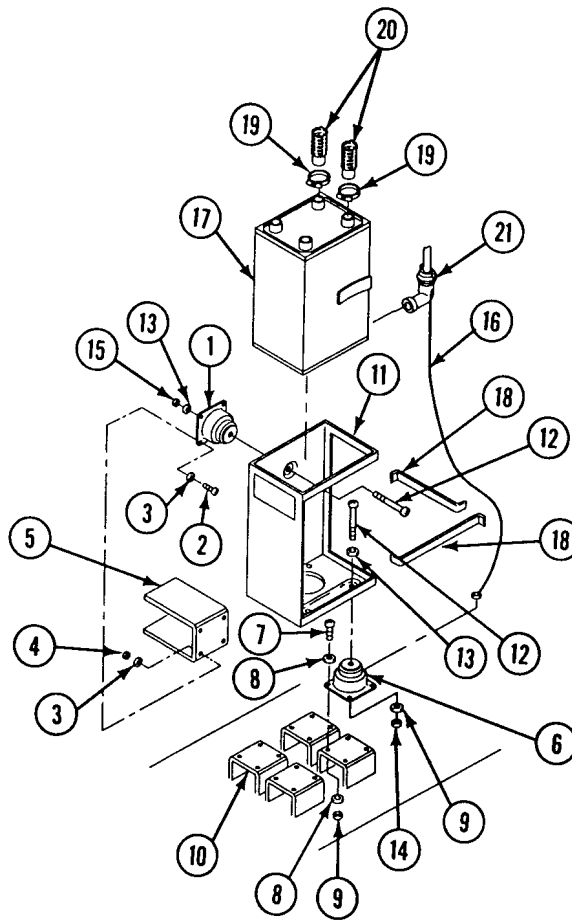
**Remove 1/4 to 1/2 inch of paint around mounting hole to ensure proper grounding.**

1. Install mount (1), four screws (2), eight washers (3), and four new locknuts (4) on welded frame (5).
2. Install four mounts (6), 16 screws (7), 32 washers (8), and 16 new locknuts (9) on welded frame (10).
3. Install frame assembly (11), five screws (12), ten washers (13), and five new locknuts (14) and (15) on five mounts (1) and (6). Do not tighten one outside locknut (14) for ground wire lead (16) connection.
4. Insert ground wire lead (16) and tighten locknut (14).

**NOTE**

**The air purifier must be adjusted before installation. See TM 3-6680-316-10.**

5. Place air purifier (17) in frame assembly (11) and close latch (18).
6. Install three clamps (19) and hoses (20) onto the air purifier (17) and tighten clamps.
7. Connect power cable (21) to air purifier (17).



**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**



---

**REPLACE M8A3/M14 NBC CABLES AND SWITCH ASSEMBLY  
(M113A2 ONLY)**

---

**0690 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0690 00-2).
  - Installation (page 0690 00-3).
- 

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

Instrument panel partially removed (WP 0238 00)

Materials/Parts

Locknut (2)

Lockwasher (2)

Tie strap (3)

---

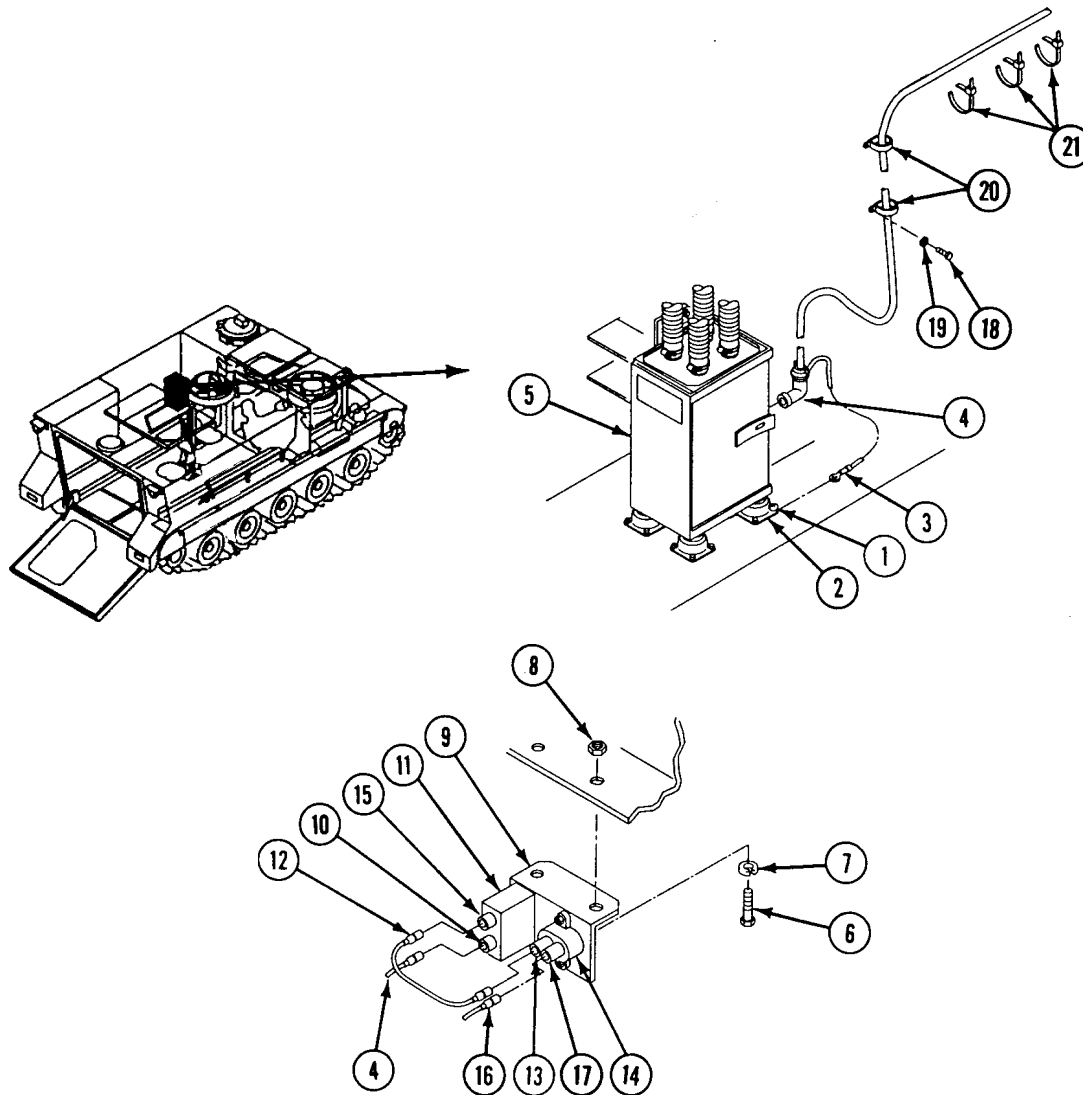


**REPLACE M8A3/M14 NBC CABLES AND SWITCH ASSEMBLY (M113A2 ONLY) — Continued**

0690 00

**REMOVAL**

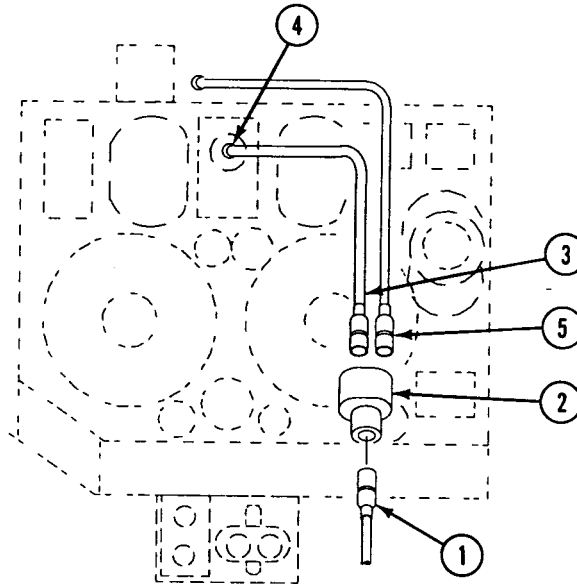
1. Loosen screw (1) on mount (2) and remove ground lead (3).
2. Remove power cable and ground assembly (4) from air purifier (5).
3. Remove two screws (6), washers (7), locknuts (8), and circuit breaker switch assembly (9) from instrument panel. Discard locknuts.
4. Remove power cable (4) from jack (10) on switch (11).
5. Remove short cable assembly (12) from jack (13) on circuit breaker (14) and jack (15) on switch (11).
6. Remove circuit 579A cable assembly (16) from jack (17) on circuit breaker (14).
7. Remove two screws (18), lockwashers (19), and clamps (20) from bulkhead. Remove clamps from circuit 579A cable assembly (16). Discard lockwashers.
8. Remove three tie straps (21) securing circuit 579A cable assembly (16) to wiring harness on side plate. Discard tie straps.



**REPLACE M8A3/M14 NBC CABLES AND SWITCH ASSEMBLY (M113A2 ONLY) — Continued**

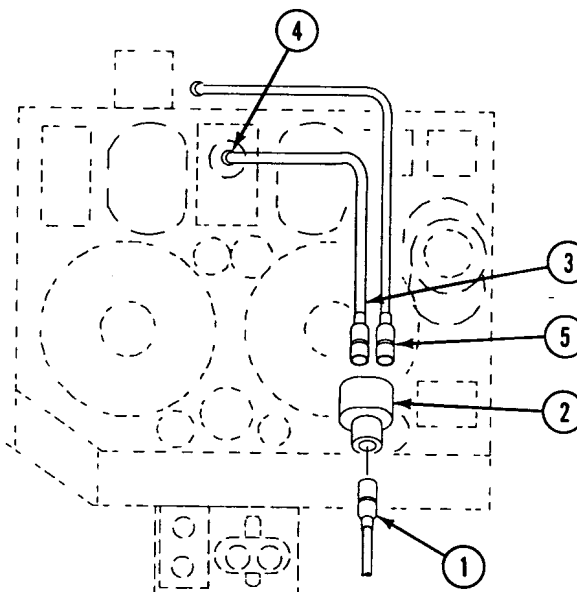
0690 00

9. Remove circuit 579A lead (1) from connector (2) on back of instrument panel.
10. Remove circuit 10A lead (3) from connector (2) and circuit breaker (4).
11. Remove circuit 10 lead (5) from connector (2).



**INSTALLATION**

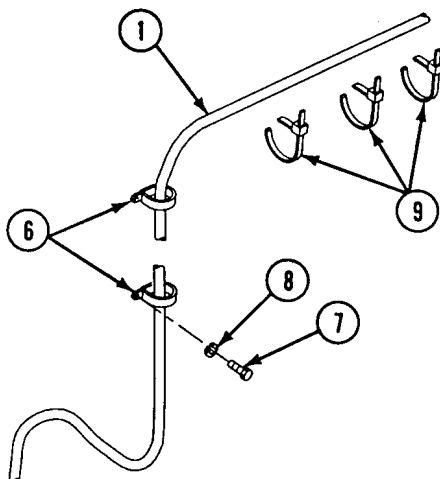
1. Install circuit 10 lead (5) on connector (2).
2. Install circuit 10A lead (3) on connector (2) and circuit breaker (4).
3. Install circuit 579A lead (1) on connector (2).



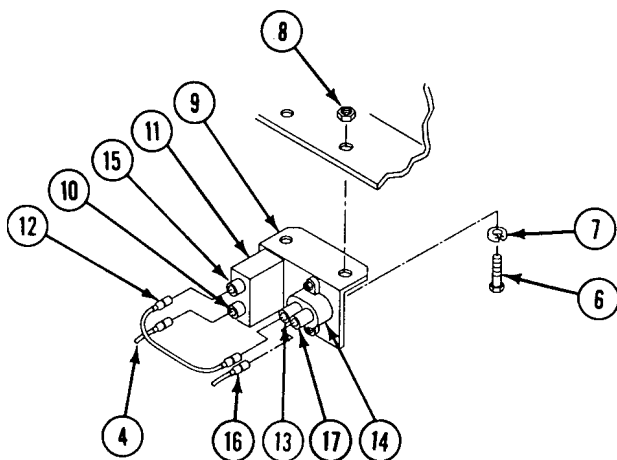
**REPLACE M8A3/M14 NBC CABLES AND SWITCH ASSEMBLY (M113A2 ONLY) — Continued**

0690 00

4. Install clamps (6) on circuit 579A cable (1). Secure clamps (6) to bulkhead with two screws (7) and new lockwashers (8).
5. Route circuit 579A cable (1) along existing wiring harness on side plate. Secure cable (1) to harness with three new tie straps (9).



6. Align circuit breaker switch assembly (9) to threaded inserts under left side of instrument panel, with controls facing front of carrier. Secure with two screws (6), washers (7), and new locknuts (8).
7. Install circuit 579A lead (16) on jack (17) of circuit breaker (14).
8. Install short cable assembly (12) on jack (13) of circuit breaker (14) and jack (15) of switch (11).
9. Install power cable assembly (4) on jack (10) of switch (11).



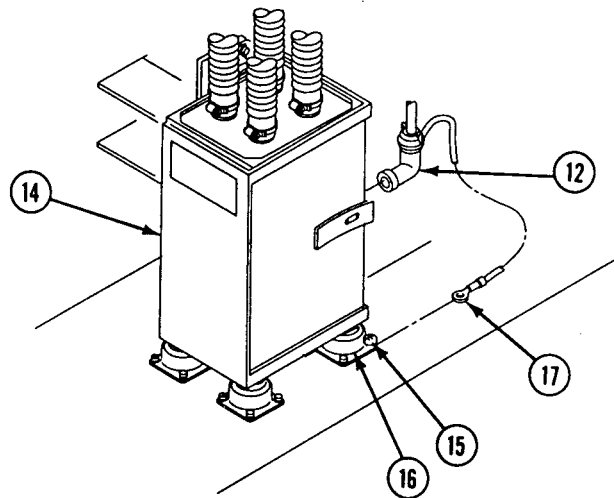
---

**REPLACE M8A3/M14 NBC CABLES AND SWITCH ASSEMBLY (M113A2 ONLY) — Continued**

---

0690 00

10. Install power and ground cable assembly (12) on air purifier assembly (14).
11. Loosen screw (15) on shock mount insulator (16). Insert end of ground cable (17) under screw (15). Tighten screw.

**FOLLOW-THROUGH STEPS**

1. Install driver's instrument panel (WP 0238 00).
2. Connect battery ground lead (WP 0294 00).

**END OF TASK**



**REPLACE M42 VENTILATED FACE MASK (VFM) HOSE ASSEMBLY**

**0691 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0691 00-1).  
 Installation (page 0691 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Ramp lowered (see your -10)

Tools and Special Tools

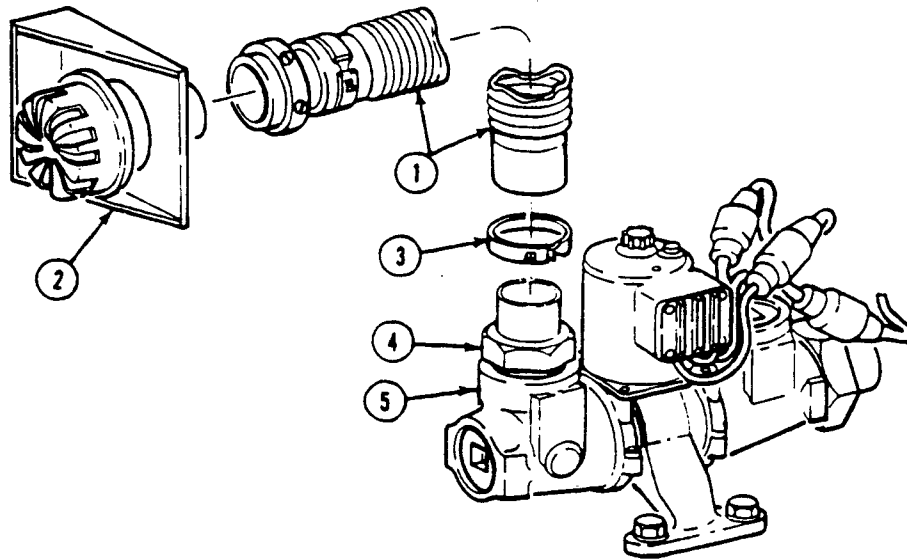
General Mechanic's Tool Kit (WP 0780 00, Item 29)

Personnel Required

Unit Mechanic

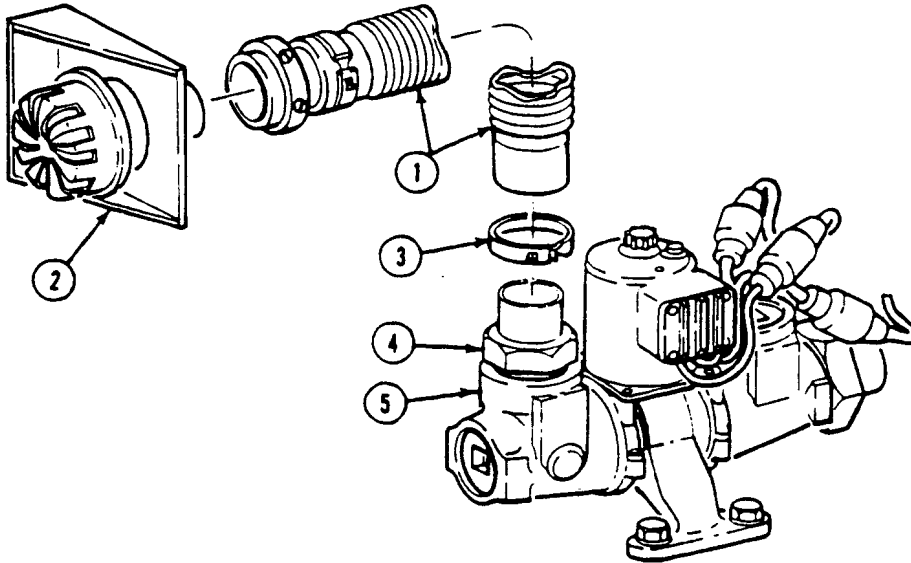
**REMOVAL**

1. Remove hose assembly (1) from each orifice connector assembly (2).
2. Loosen clamp (3) and remove clamp and hose assembly (1) from adapter (4) on each heater (5).



**INSTALLATION**

1. Install hose assembly (1) and clamp (3) on adapter (4) of each heater (5). Lock clamp (3).
2. Install hose assembly (1) on each orifice connector assembly (2).

**FOLLOW-THROUGH STEPS**

1. Raise and lock ramp (see your -10).
2. Stop engine (see your -10).

**END OF TASK**

**REPLACE ORIFICE CONNECTOR ASSEMBLY NBC EQUIPMENT**

**0692 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0692 00-1).  
 Installation (page 0692 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)  
 Retaining ring pliers set (WP 0780 00, Item 45)

Equipment Condition

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

Materials/Parts

Corrosion preventive compound (WP 0782 00, Item 17)  
 Lockwasher

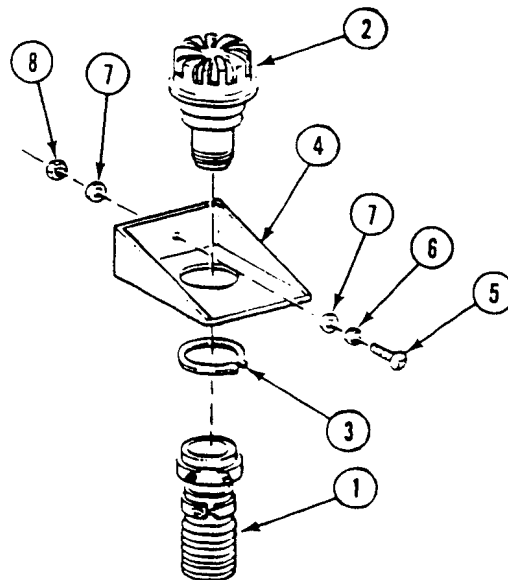
**REMOVAL**

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).

**NOTE**

**There are two methods of attaching bracket, washer, lockwasher, and nut. All parts may or may not be there, depending on mounting location.**

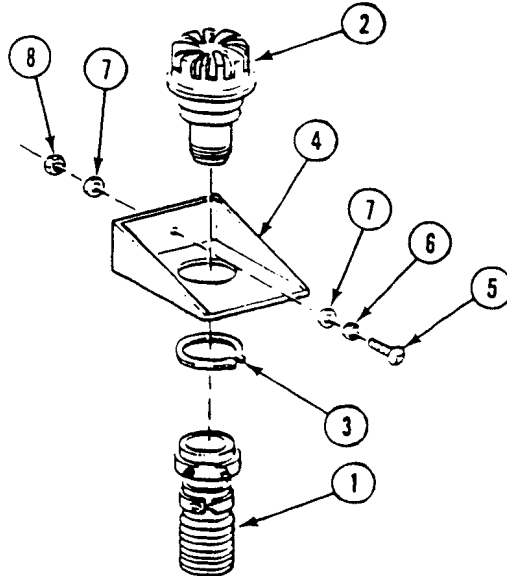
4. Remove screw (5), lockwasher (6), two washers (7), nut (8), and mounting bracket (4). Discard lockwasher.





**INSTALLATION**

1. Apply corrosion preventive compound to all threaded fasteners.
2. Install mounting bracket (4) and secure with screw (5), new lockwasher (6), two washers (7), and nut (8).
3. Install orifice connector assembly (2) into mounting bracket (4) and install retaining ring (3). Use retaining ring pliers.
4. Install hose assembly (1) on orifice connector assembly (2).

**FOLLOW-THROUGH STEPS**

1. Raise and lock ramp (see your -10).
2. Stop engine (see your -10).

**END OF TASK**

---

**REPLACE M42 VENTILATED FACE MASK (VFM) GAS FILTER**

---

**0693 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0693 00-2).  
 Installation (page 0693 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

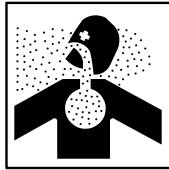
Ramp lowered (see your -10)

Materials/Parts

Lockwasher (2)

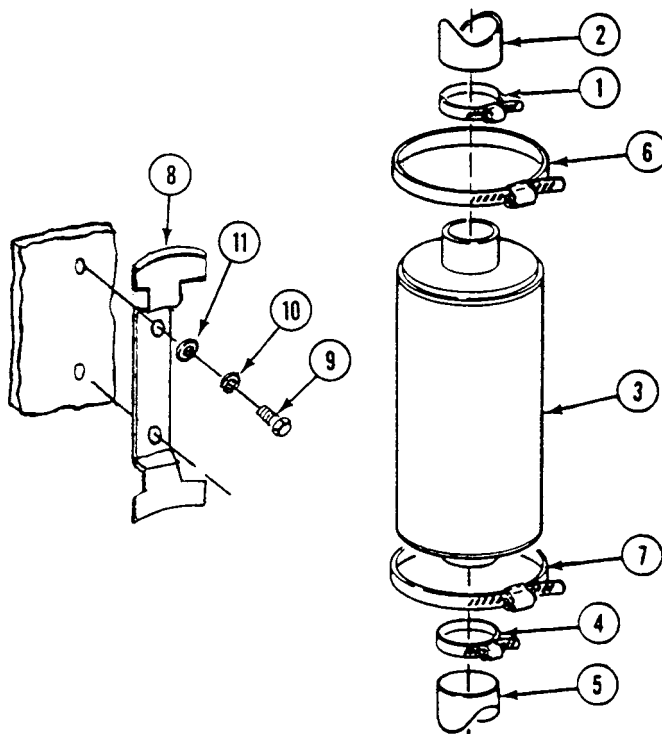
---

## REMOVAL

**WARNING**

**Contaminated filters are hazardous to personnel. Use precautions when handling filters.  
Dispose of filters using trained chemical environment personnel.**

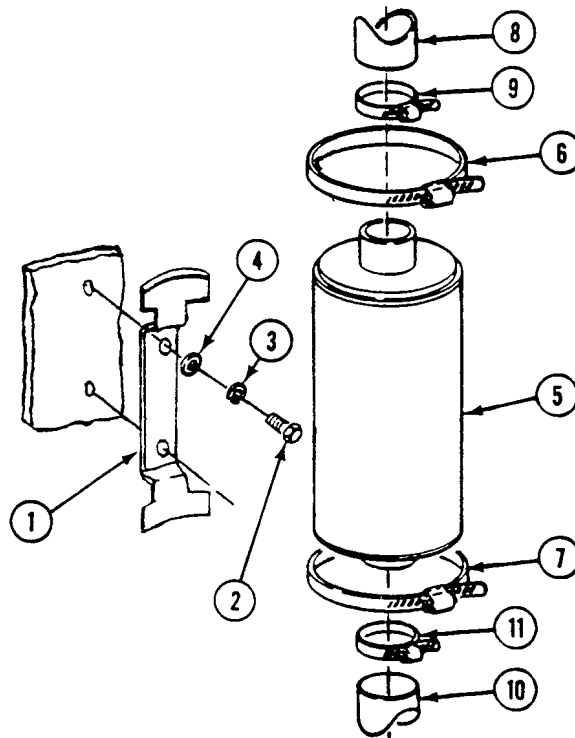
1. Loosen and remove clamp (1) and coupling (2) from gas filter (3).
2. Loosen and remove clamp (4) and coupling (5) from gas filter (3).
3. Loosen clamps (6) and (7). Slide clamps off bracket (8) and gas filter (3). Remove gas filter.
4. Remove two screws (9), lockwashers (10), washers (11), and bracket (8) from mounting position. Discard lockwashers.



**INSTALLATION****NOTE**

**When positioning gas filter against bracket, ensure the air flow direction, as marked on gas filter, is toward the VFM heaters.**

1. Install bracket (1), two screws (2), new lockwashers (3), and washers (4) in mounting position.
2. Place gas filter (5) into position against bracket (1), slide clamps (6) and (7) over bracket and gas filter. Tighten clamps securely.
3. Install coupling (8) and clamp (9) on gas filter (5). Tighten clamp securely.
4. Install coupling (10) and clamp (11) on gas filter (5). Tighten clamp securely.

**FOLLOW THROUGH STEPS**

1. Raise and lock ramp (see your -10).
2. Stop engine (see your -10).

**END OF TASK**



**REPLACE M42 VENTILATED FACE MASK (VFM) HEATER**

**0694 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0694 00-1).  
 Installation (page 0694 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Corrosion preventive compound (WP 0782 00, Item 17)

Locknut (4)

Lockwasher (4)

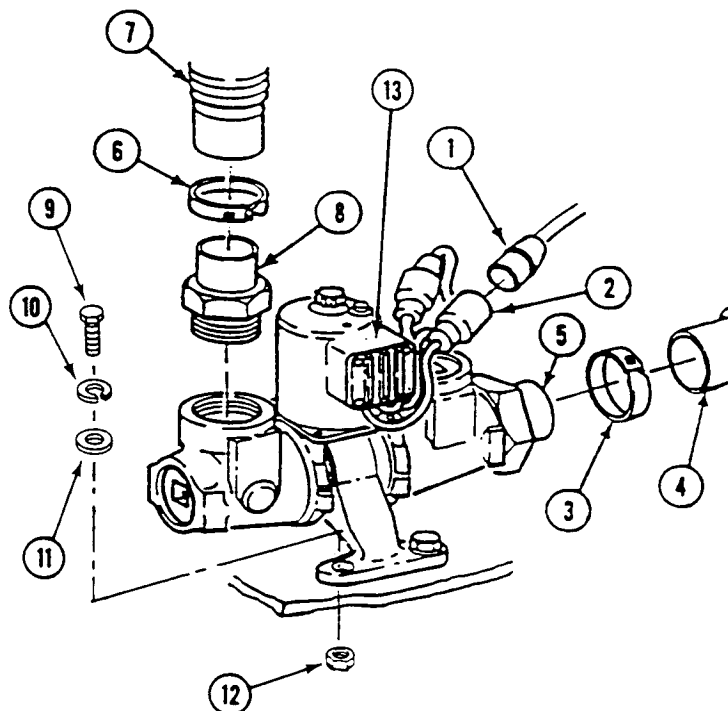
**REMOVAL**

1. Unplug power lead (1) from heater jack (2).
2. Loosen clamp (3) and remove clamp and hose assembly (4) from adapter (5).
3. Loosen clamp (6) and remove clamp and hose assembly (7) from adapter (8).

**NOTE**

**Location varies for heaters. Procedures in Step 4 cover the different mounting hardware.**

4. Remove four screws (9), lockwashers (10), washers (11), locknuts (12), and heater (13). Discard locknuts and lockwashers.



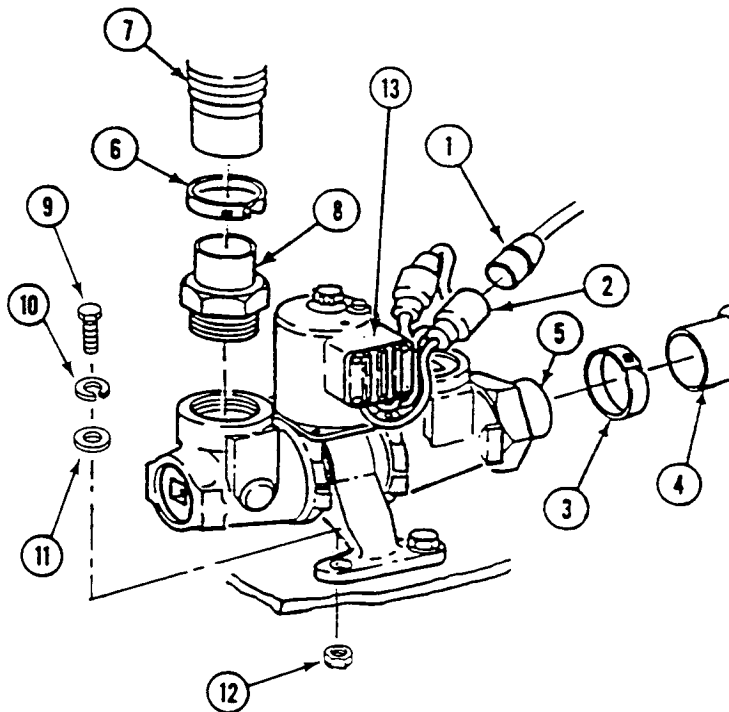
**INSTALLATION****NOTE**

Location varies for heaters. Procedures in Step 1 cover the different mounting hardware.

**NOTE**

Apply corrosion preventive compound to all threaded fasteners.

1. Install VFM heater (13), four new locknuts (12), washers (11), new lockwashers (10), and screws (9).
2. Install hose assembly (7) and clamp (6) on adapter (8). Tighten clamp securely.
3. Install hose assembly (4) and clamp (3) on adapter (5). Tighten clamp securely.
4. Connect power lead (1) to heater jack (2).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**

CHAPTER 40

UNIT MAINTENANCE INSTRUCTIONS  
FOR M1059 SMOKE GENERATOR EQUIPMENT

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| REPLACE FOG OIL TANK MODULE (M1059 ONLY).....   | .0695 00            |
| REPLACE SMOKE GENERATOR BREATHER HOSE ASSEMBLY (M1059 ONLY).....                                | .0696 00            |
| REPLACE SMOKE GENERATOR ASSEMBLY AND SUPPORT BRACKET (M1059 ONLY).....                          | .0697 00            |
| REPLACE SMOKE GENERATOR CONTROL PANEL ASSEMBLY (M1059 ONLY).....                                | .0698 00            |
| REPLACE SMOKE GENERATOR SYSTEM POWER SUPPLY CABLE ASSEMBLY (M1059 ONLY).....                    | .0699 00            |
| REPLACE AIR COMPRESSOR ELECTRICAL CABLE ASSEMBLY (M1059 ONLY).....                              | .0700 00            |
| REPLACE FOG OIL PUMP ELECTRICAL CABLE ASSEMBLY (M1059 ONLY).....                                | .0701 00            |
| REPLACE SMOKE GENERATOR INTERNAL CABLE ASSEMBLY (M1059 ONLY).....                               | .0702 00            |
| REPLACE ADAPTER ACCESS PLATE TO GENERATOR ELECTRICAL CABLE ASSEMBLY (M1059 ONLY).....           | .0703 00            |
| REPLACE AIR COMPRESSOR ASSEMBLY (M1059 ONLY).....   | .0704 00            |
| REPLACE FOG OIL PUMP ASSEMBLY (M1059 ONLY).....   | .0705 00            |
| REPLACE SMOKE GENERATOR FUEL CAN LID ASSEMBLY (M1059 ONLY).....                                 | .0706 00            |
| REPLACE SMOKE GENERATOR FUEL LINES AND GUARDS (M1059 ONLY).....                                 | .0707 00            |
| REPLACE SMOKE GENERATOR ADAPTER ACCESS PLATE AND GASKET (M1059 ONLY).....                       | .0708 00            |
| REPLACE SMOKE GENERATOR COMPRESSOR RESERVOIR TO ADAPTER ACCESS PLATE AIR HOSE (M1059 ONLY)..... | .0709 00            |
| REPLACE SMOKE GENERATOR ADAPTER ACCESS PLATE TO COVER ASSEMBLY AIR HOSE (M1059 ONLY).....       | .0710 00            |
| REPLACE FOG OIL TANK QUICK DISCONNECT TO ADAPTER ACCESS PLATE HOSE (M1059 ONLY).....            | .0711 00            |
| REPLACE COVER ASSEMBLY FOG OIL QUICK DISCONNECT TO ADAPTER ACCESS PLATE HOSE (M1059 ONLY).....  | .0712 00            |
| REPLACE SMOKE GENERATOR ARMOR (M1059 ONLY).....   | .0713 00            |
| REPLACE SMOKE GENERATOR GLOW PLUG CABLE ASSEMBLIES (M1059 ONLY).....                            | .0714 00            |
| REPLACE/REPAIR SMOKE GENERATOR FUEL FILTER/WATER SEPARATOR (M1059 ONLY).....                    | .0715 00            |





---

**REPLACE FOG OIL TANK MODULE (M1059 ONLY)**

---

**0695 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0695 00-2).  
 Installation (page 0695 00-5).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)  
 Suitable Lifting Device

Carrier blocked (see your -10)

Ramp level and blocked (see your -10)

Circuit breaker CB1 to OFF (TM 3-1040-283-10)

Battery ground lead disconnected (WP 0294 00)

Personnel Required

Unit Mechanic  
 Helper (H)

Air pressure released from compressor reservoir (TM 3-1040-283-20&P)

Fog oil tank drained (TM 3-1040-283-20&P)

---

## REMOVAL

**WARNING**

Fog oil is slippery and can cause soldiers to fall and get injured. Clean up all spillage or leakage of fog oil as soon as possible by washing the area or absorbing the fog oil with sand or other absorbent material.

**WARNING**

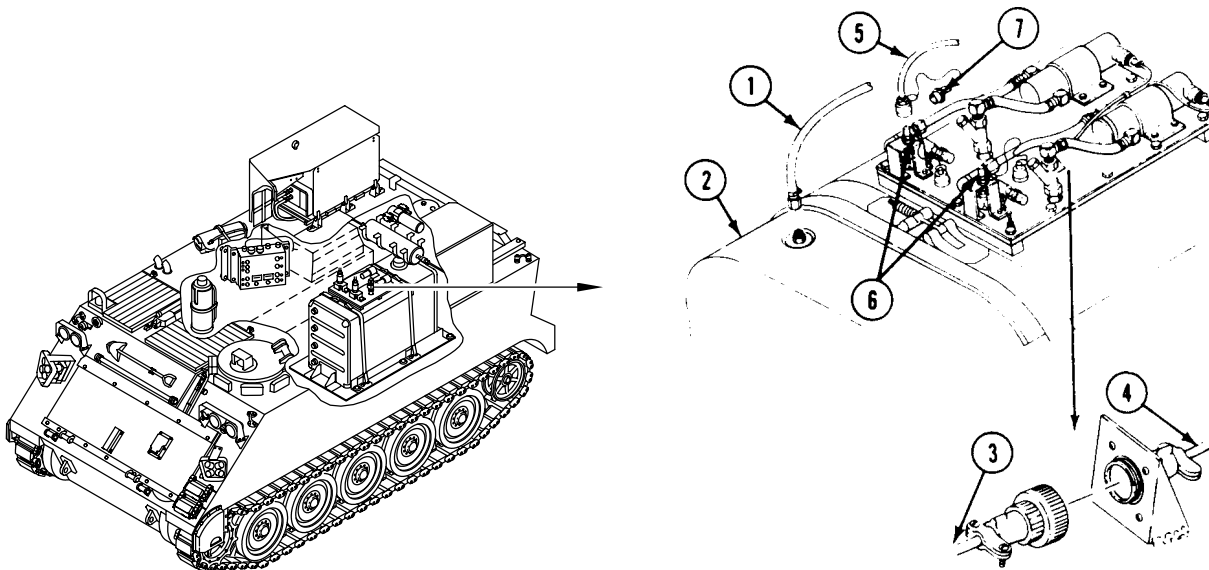
Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.

1. Remove breather hose (1) from fog oil tank (2).
2. Disconnect cable (3) from fog oil pump electrical cable assembly (4).
3. Disconnect two fog oil hoses (5) at quick disconnects (6).

**NOTE**

Do not install dust covers on quick disconnects until fog oil tank is clear of air compressor.

4. Install two safety caps (7) on two fog oil hoses (5).



5. Remove six screws (1) and washers (2) that secure fog oil tank module (3) to hull.

**WARNING**

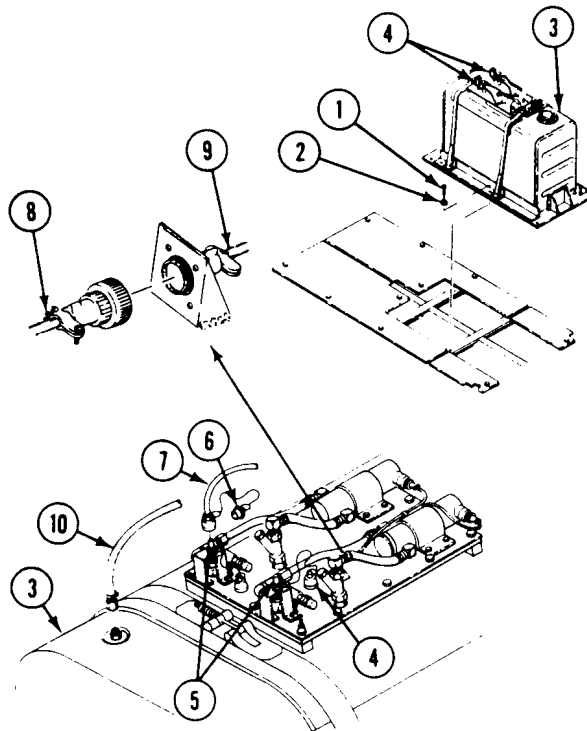


Lifting or moving objects in excess of 70 pounds could injure you. Get an assistant or use a lifting device to move heavy objects.

**NOTE**

Slide fog oil tank all the way to the left side of the carrier to clear air compressor for removal of tank from carrier.

6. Slide fog oil tank module (3) onto ramp. Have helper assist.
7. Install two dust covers (4) on quick disconnect couplings (5).



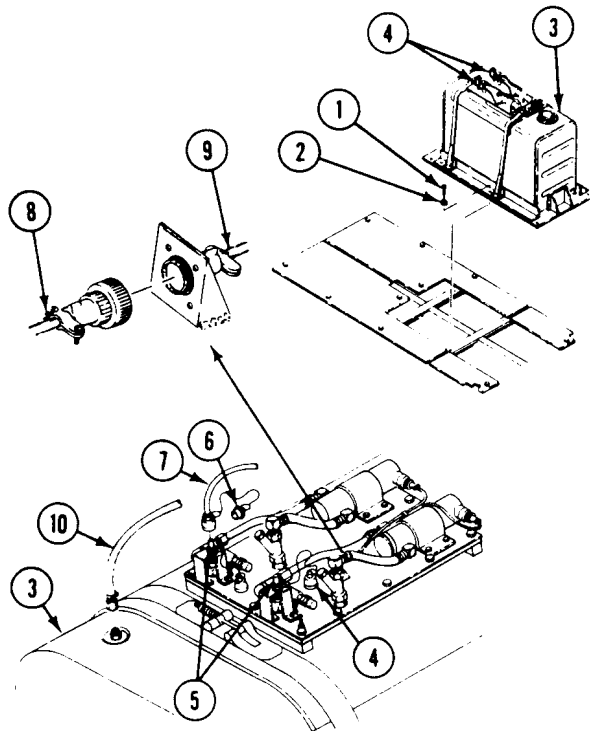
**WARNING**



**Hanging loads, heavy parts, and overhead equipment can fall unexpectedly and kill or injure you.**

**Stay clear of hanging loads, heavy parts, and overhead equipment. Use correct lifting devices. Always have helper guide heavy parts and equipment.**

8. Using a suitable lifting device, lower fog oil tank module (3) from ramp to ground.



INSTALLATION

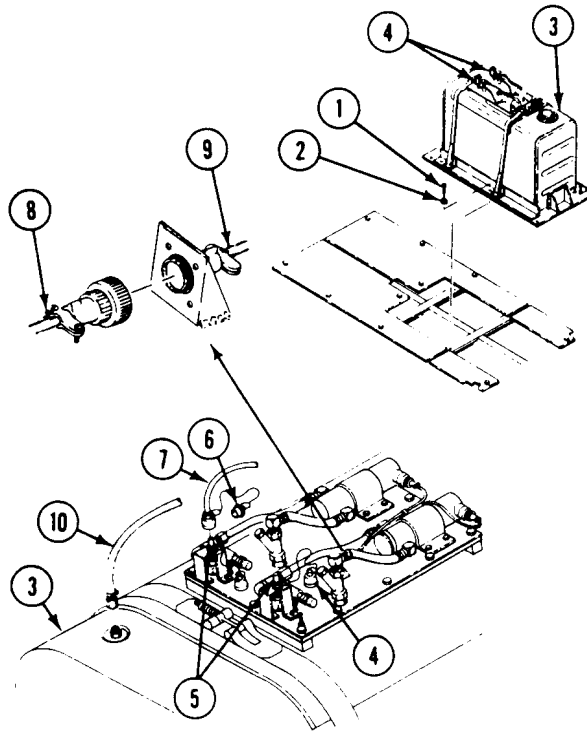
**WARNING**



**Hanging loads, heavy parts, and overhead equipment can fall unexpectedly and kill or injure you.**

**Stay clear of hanging loads, heavy parts, and overhead equipment. Use correct lifting devices. Always have helper guide heavy parts and equipment.**

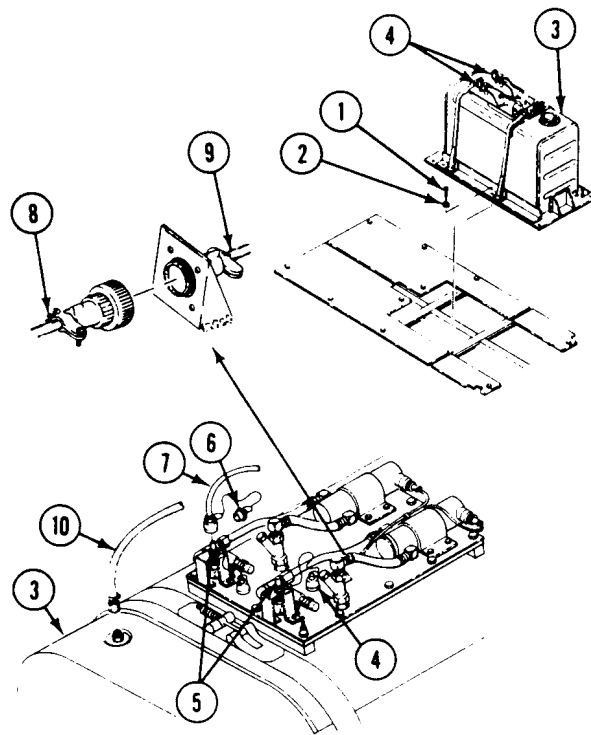
1. Using a suitable lifting device, raise fog oil tank module (3) from ground to ramp.
2. Remove two dust covers (4) from two quick disconnect couplings (5).



**NOTE**

**Slide fog oil tank all the way to the left side of carrier to clear air compressor for installation of tank in carrier.**

3. Slide fog oil tank module (3) onto hull cross members. Have helper assist. Secure to hull with six screws (1) and washers (2).
4. Remove two safety caps (6) from two fog oil hoses (7).
5. Connect two fog oil hoses (7) to two quick disconnect couplings (5).
6. Connect cable assembly (8) to fog oil pump electrical cable assembly (9).
7. Install breather hose (10) on fog oil tank (3).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.
3. Service fog oil tank as required. See TM 3-1040-283-20&P.
4. Raise and lock ramp (see your -10).
5. Stop engine (see your -10).

**END OF TASK**

**REPLACE SMOKE GENERATOR BREATHER HOSE ASSEMBLY  
(M1059 ONLY)**

**0696 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0696 00-1).
- Installation (page 0696 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

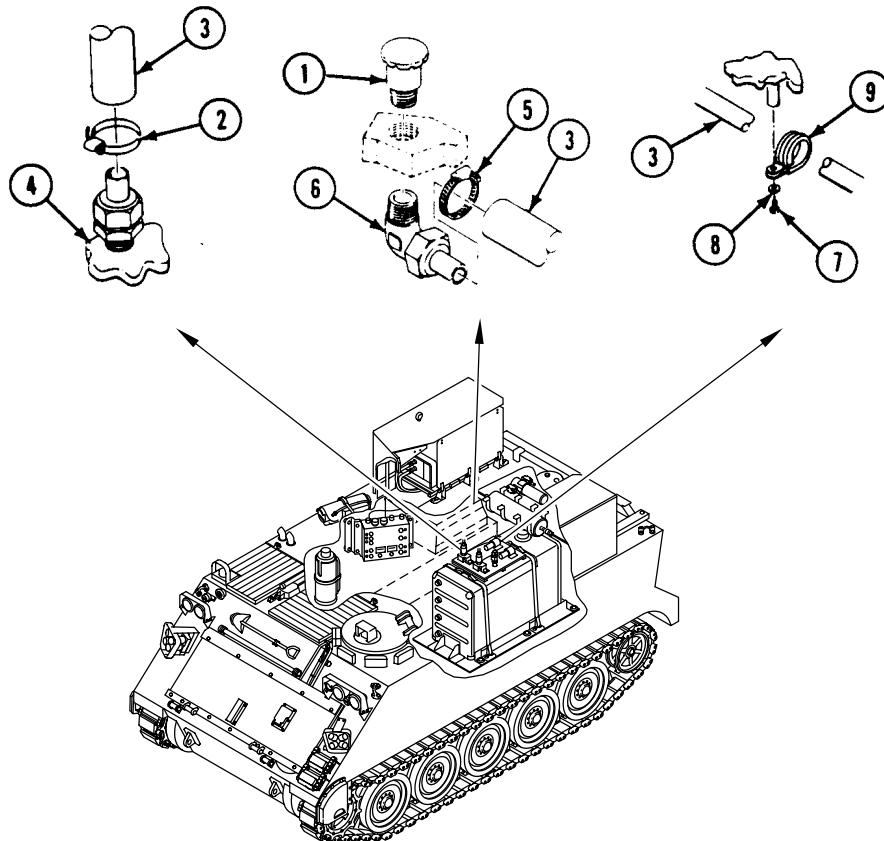
Carrier blocked (see your -10)

Materials/Parts

Lockwasher (2)

**REMOVAL**

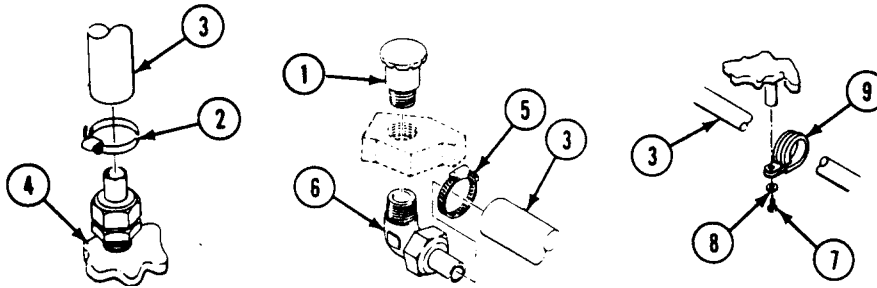
1. Remove breather (1).
2. Loosen clamp (2) and remove hose assembly (3) from front of fog oil tank (4).
3. Loosen clamp (5) and remove hose assembly (3) from elbow (6) on hull ceiling.
4. Remove two screws (7), lockwashers (8), clamps (9), and hose assembly (3) from hull ceiling. Discard lockwashers.





**REPLACE SMOKE GENERATOR BREATHER HOSE ASSEMBLY (M1059 ONLY) — Continued****0696 00****INSTALLATION**

1. Secure hose assembly (3) to hull ceiling with two clamps (9), screws (7), and new lockwashers (8).
2. Install hose assembly (3) on elbow (6) on hull ceiling. Tighten clamp (5).
3. Install hose assembly (3) on fog oil tank tube (4). Tighten clamp (2).
4. Install breather (1).

**END OF TASK**

---

**REPLACE SMOKE GENERATOR ASSEMBLY AND SUPPORT  
BRACKET (M1059 ONLY)**

---

**0697 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0697 00-2).  
Installation (page 0697 00-5).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Helper (H)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Torque Wrench (WP 0780 00, Item 103)

Suitable Lifting Device

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Circuit breaker CB1 to OFF (TM 3-1040-283-10)

Battery ground lead disconnected (WP 0294 00)

Air pressure released from compressor reservoir (TM  
3-1040-283-20&P)

Inboard armor shield removed (WP 0713 00)

---

Materials/Parts

Locknut (2)

Lockwasher (4)

---

**REPLACE SMOKE GENERATOR ASSEMBLY AND SUPPORT BRACKET  
(M1059 ONLY) — Continued**

---

0697 00

**REMOVAL**

---

**WARNING**

---



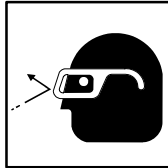
**Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.**

1. Remove two screws (1), four washers (2), two locknuts (3), and wedges (4) from support bracket (5) and generator (6). Discard locknuts.
2. Slide generator (6) out and onto shield. Have helper assist.
3. Disconnect electrical cable assembly (7) from cover assembly connector 5J1 (8).

---

**WARNING**

---



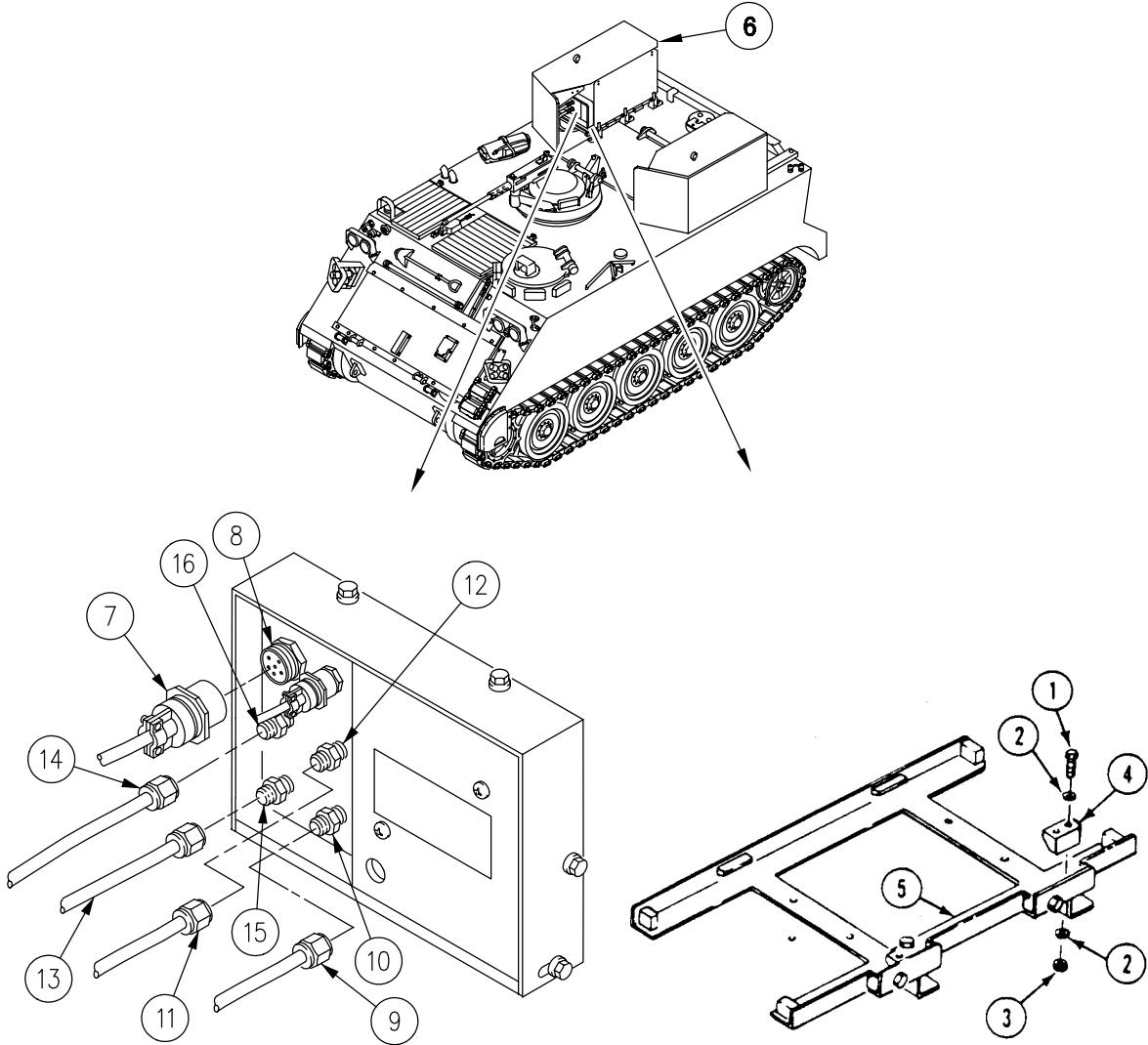
**Compressed air pressure from smoke generator can cause serious injury or death. To avoid accidents, bleed air before working on air compressor assembly or disconnecting any air hose.**

4. Disconnect air hose (9) from cover assembly connector (10).
5. Disconnect fog oil hose (11) from cover assembly connector (12).

**REPLACE SMOKE GENERATOR ASSEMBLY AND SUPPORT BRACKET  
(M1059 ONLY) — Continued**

0697 00

6. Remove fuel supply hose (13) and fuel return hose (14) from fuel supply connector (15) and fuel return connector (16).



**REPLACE SMOKE GENERATOR ASSEMBLY AND SUPPORT BRACKET  
(M1059 ONLY) — Continued**

0697 00

7. Disconnect glow plug cable (19) from preheat harness jack (20) from panel (21) on smoke generator (1).

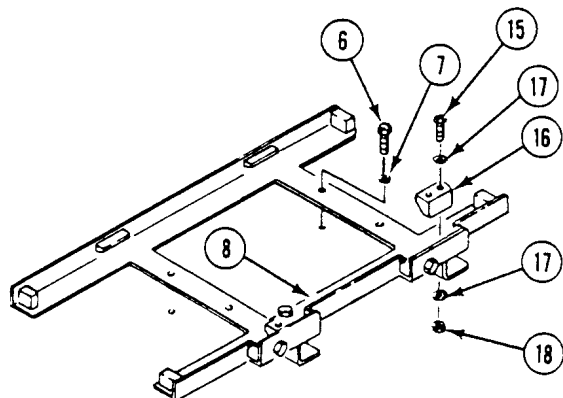
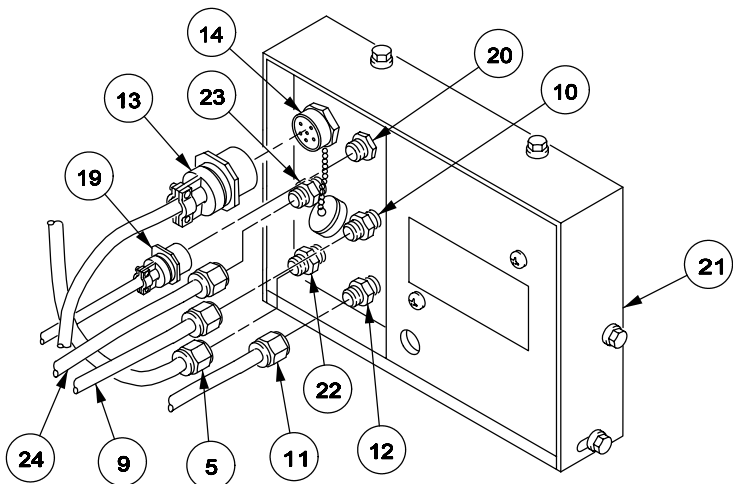
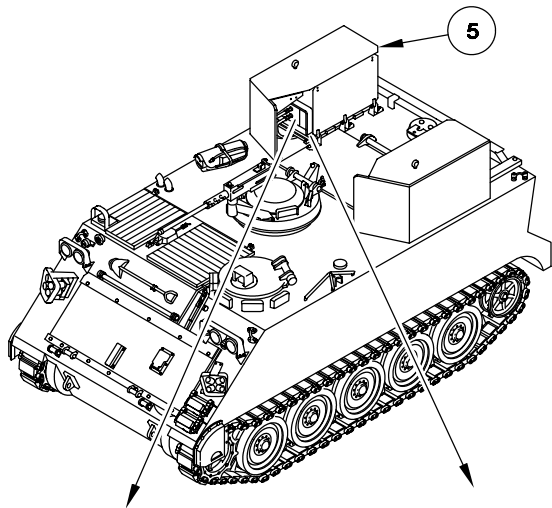
**WARNING**



**Hanging loads, heavy parts, and overhead equipment can fall unexpectedly and kill or injure you.**

**Stay clear of hanging loads, heavy parts, and overhead equipment. Use correct lifting devices. Always have helper guide heavy parts and equipment.**

8. Using suitable lifting device, remove generator (5) from carrier.
9. Remove four screws (6), lockwashers (7), and support bracket (8) from hull top. Discard lockwashers.



**REPLACE SMOKE GENERATOR ASSEMBLY AND SUPPORT BRACKET  
(M1059 ONLY) — Continued**

0697 00

**INSTALLATION**

1. Position generator support bracket (8) on hull top. Secure with four screws (6) and new lockwashers (7). **TIGHTEN SCREWS TO 54-59 LB-FT (73-80 N·M) TORQUE.** Use torque wrench.

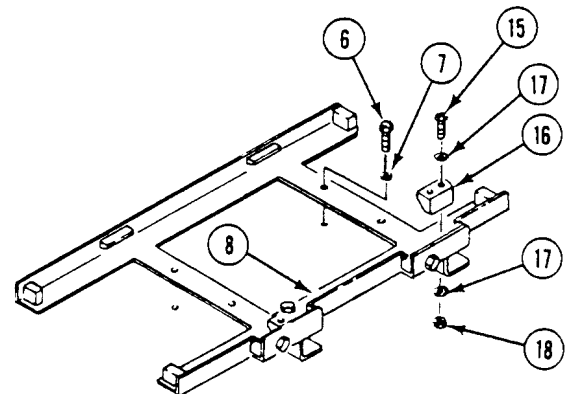
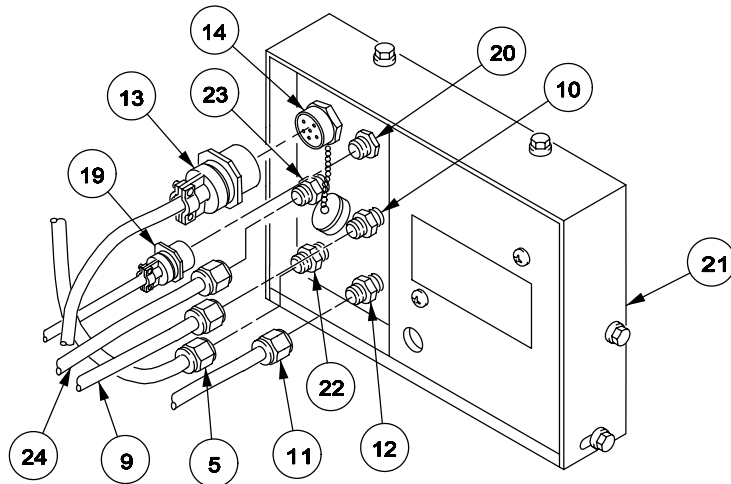
**WARNING**



**Hanging loads, heavy parts, and overhead equipment can fall unexpectedly and kill or injure you.**

**Stay clear of hanging loads, heavy parts, and overhead equipment. Use correct lifting devices. Always have helper guide heavy parts and equipment.**

2. Using a suitable lifting device, install smoke generator on armor shield.
3. Connect glow plug cable (19) to preheat harness jack (20) to panel (21) on smoke generator.
4. Connect fuel supply hose (5) to fuel supply connector (22) and fuel return hose (24) to fuel return connector (23).
5. Connect fog oil hose (9) to cover assembly connector (10).
6. Connect air hose (11) to cover assembly connector (12).
7. Connect electrical cable assembly (13) to cover connector 5J1 (14).
8. Slide generator onto support bracket (4). Have helper assist.
9. Secure generator to support (4) with two screws (15), wedges (16), four washers (17), and two new locknuts (18).



---

**REPLACE SMOKE GENERATOR ASSEMBLY AND SUPPORT BRACKET  
(M1059 ONLY) — Continued**

---

**0697 00**

**FOLLOW-THROUGH STEPS**

1. Install inboard armor shield (WP 0713 00).
2. Connect battery ground lead (WP 0294 00).
3. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.

**END OF TASK**

---

**REPLACE SMOKE GENERATOR CONTROL PANEL ASSEMBLY  
(M1059 ONLY)**

---

**0698 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0698 00-2).  
Installation (page 0698 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Materials/Parts

Locknut (4)

Lockwasher (12)

Circuit breaker CB1 to OFF (TM 3-1040-283-10)

Battery ground lead disconnected (WP 0294 00)

---



REMOVAL

WARNING

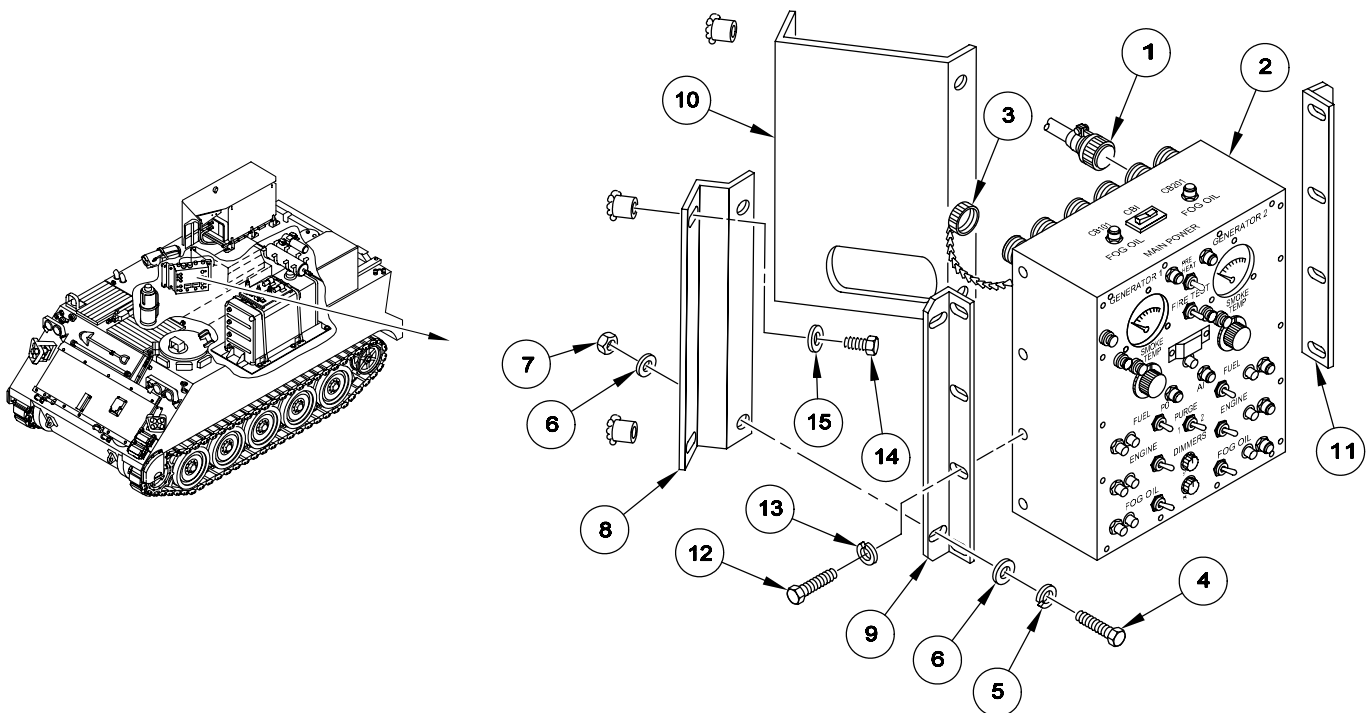


Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.

NOTE

Tag all cables to match their respective connectors before removal.

1. Disconnect six cable assembly plugs (1) from control panel (2). Install associated dust caps (3).
2. Remove four screws (4), lockwashers (5), eight washers (6), four locknuts (7), and control panel (2) with two attached brackets (9) and (11) from two brackets (8) and (10). Discard lockwashers and locknuts.
3. Remove eight screws (12), lockwashers (13) and two brackets (9) and (11) from control panel (2). Discard lockwashers.
4. Remove four screws (14), washers (15), and two brackets (8) and (10) from carrier.

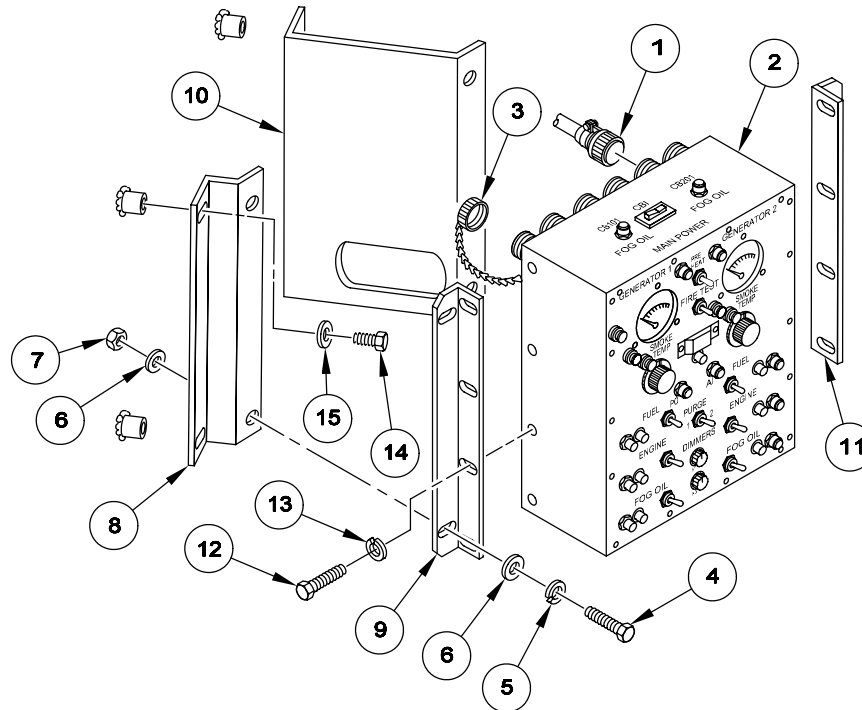


**REPLACE SMOKE GENERATOR CONTROL PANEL ASSEMBLY (M1059 ONLY) — Continued**

0698 00

**INSTALLATION**

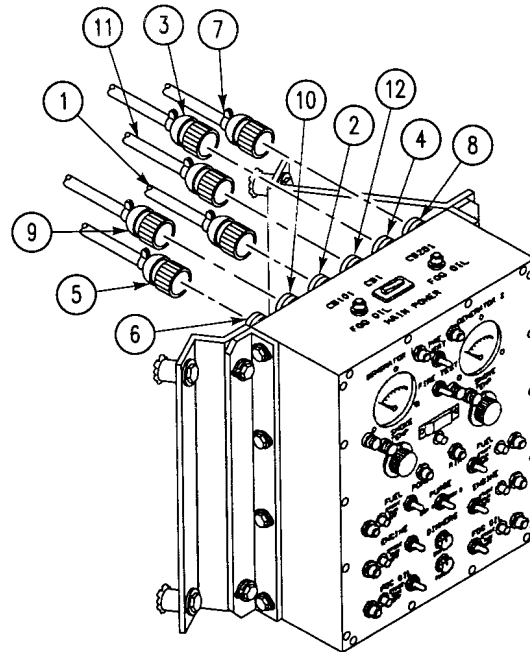
1. Install two brackets (8) and (10), four screws (14), and washers (15) on carrier.
2. Install two brackets (9) and (11), eight screws (12), and new lockwashers (13) on control panel (2).
3. Install control panel (2) with two attached brackets (9) and (11) on two brackets (8) and (10). Secure with four screws (4), new lockwashers (5), eight washers (6), and four new locknuts (7).
4. Remove dust caps (3) from six connectors.



**REPLACE SMOKE GENERATOR CONTROL PANEL ASSEMBLY (M1059 ONLY) — Continued**

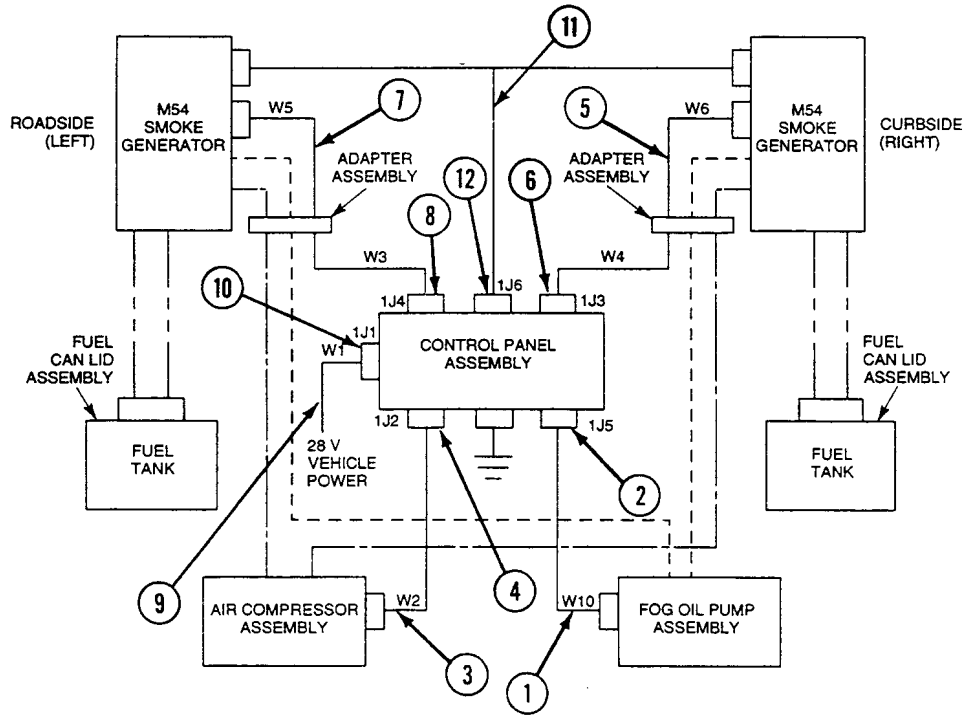
0698 00

5. Connect fog oil pump cable assembly (1) to control panel assembly connector marked 1J5 (2).
6. Connect air compressor cable assembly (3) to control panel assembly connector marked 1J2 (4).
7. Connect smoke generator number 1 (right) cable assembly (5) to control panel assembly connector marked 1J3 (6).
8. Connect smoke generator number 2 (left) cable assembly (7) to control panel assembly connector marked 1J4 (8).
9. Connect main power cable assembly (9) to control panel assembly connector marked 1J1 (10).
10. Connect glow plug cable (11) to control panel assembly connector marked 1J6 (12).



**REPLACE SMOKE GENERATOR CONTROL PANEL ASSEMBLY (M1059 ONLY) — Continued**

0698 00



**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.

**END OF TASK**



---

**REPLACE SMOKE GENERATOR SYSTEM POWER SUPPLY  
CABLE ASSEMBLY (M1059 ONLY)**

---

**0699 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0699 00-1).  
Installation (page 0699 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Circuit breaker CB1 to OFF (TM 3-1040-283-10)

Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Grommet

Locknut

Lockwasher

Lockwasher (8)

---

**REMOVAL**

**WARNING**

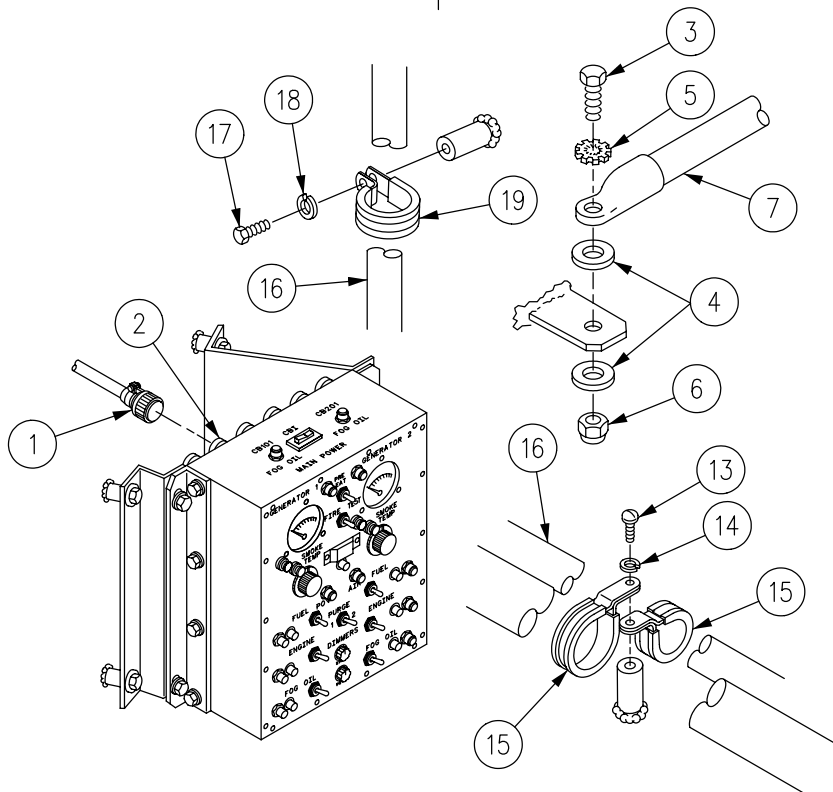
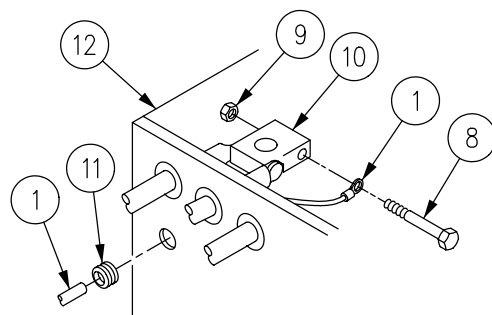
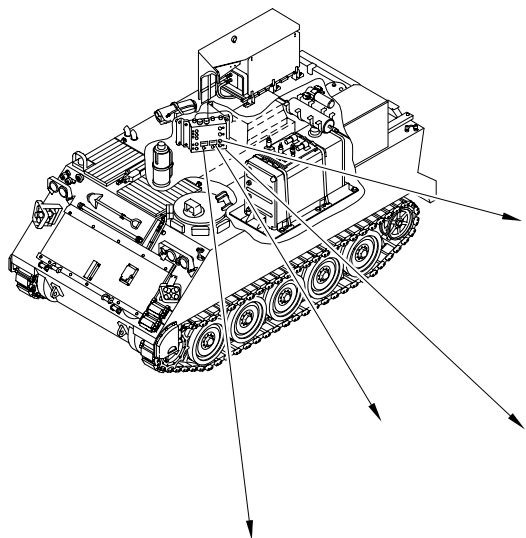


**Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.**

**REPLACE SMOKE GENERATOR SYSTEM POWER SUPPLY CABLE ASSEMBLY (M1059 ONLY) — Continued**

**0699 00**

1. Disconnect cable assembly (1) from control panel assembly connector 1J1 (2).
2. Remove screw (3), two washers (4), lockwasher (5), locknut (6), and ground lead (7) from hull bracket. Discard lockwasher and locknut.
3. Remove screw (8), nut (9), and cable assembly (1) from positive battery terminal (10).
4. Remove cable assembly (1) and grommet (11) from battery box (12). Discard grommet.
5. Remove six screws (13), lockwashers (14), and 12 clamps (15) from cable assembly (16). Discard lockwashers.
6. Remove two screws (17), lockwashers (18), clamps (19), and cable assembly (16) from hull. Discard lockwashers.



**REPLACE SMOKE GENERATOR SYSTEM POWER SUPPLY CABLE ASSEMBLY (M1059 ONLY) — Continued**

0699 00

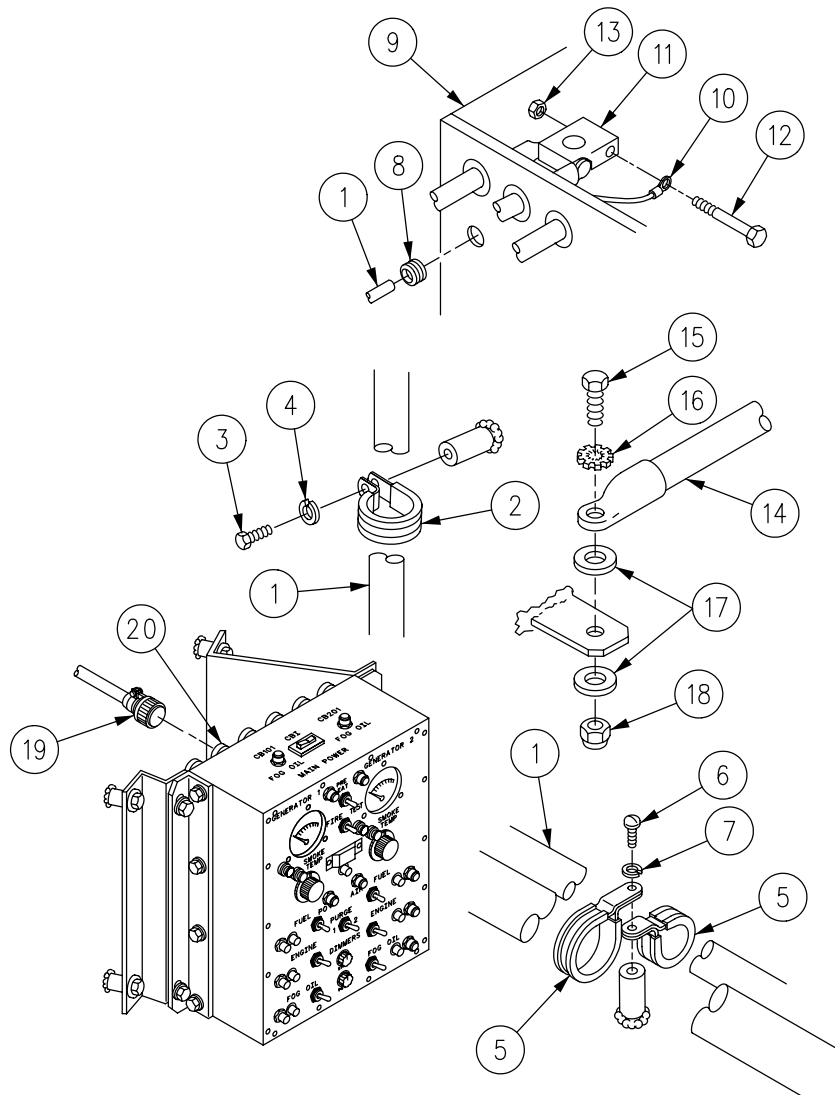
**INSTALLATION**

**WARNING**



**Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.**

1. Secure cable assembly (1) to hull with two clamps (2), screws (3), and new lockwashers (4).
2. Secure cable assembly (1) to hull top plate with 12 clamps (5), six screws (6), and new lockwashers (7).

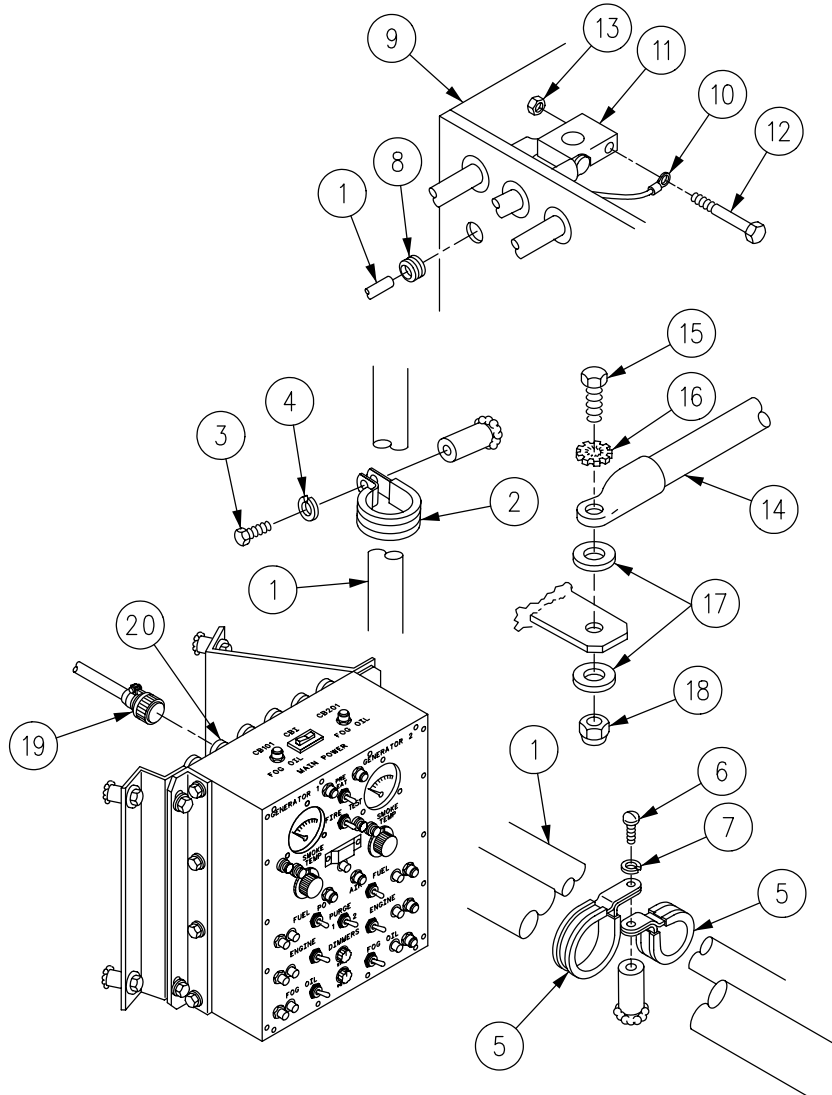




**REPLACE SMOKE GENERATOR SYSTEM POWER SUPPLY CABLE ASSEMBLY (M1059 ONLY) — Continued**

0699 00

3. Install new grommet (8) on cable assembly (1). Route cable through hole in battery box (9).
4. Install cable assembly lead (10) on positive battery terminal (11). Secure with screw (12) and nut (13).
5. Install ground lead (14) on clean, paint-free hull bracket. Secure with screw (15), new lockwasher (16), two washers (17), and new locknut (18).
6. Connect cable assembly (19) to control panel assembly connector 1J1 (20).



**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.

**END OF TASK**

---

**REPLACE AIR COMPRESSOR ELECTRICAL CABLE  
ASSEMBLY (M1059 ONLY)**

---

**0700 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0700 00-2).  
Installation (page 0700 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Circuit breaker CB1 to OFF (TM 3-1040-283-10)

Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Lockwasher (6)

Personnel Required

Unit Mechanic

---

## REPLACE AIR COMPRESSOR ELECTRICAL CABLE ASSEMBLY (M1059 ONLY) — Continued

0700 00

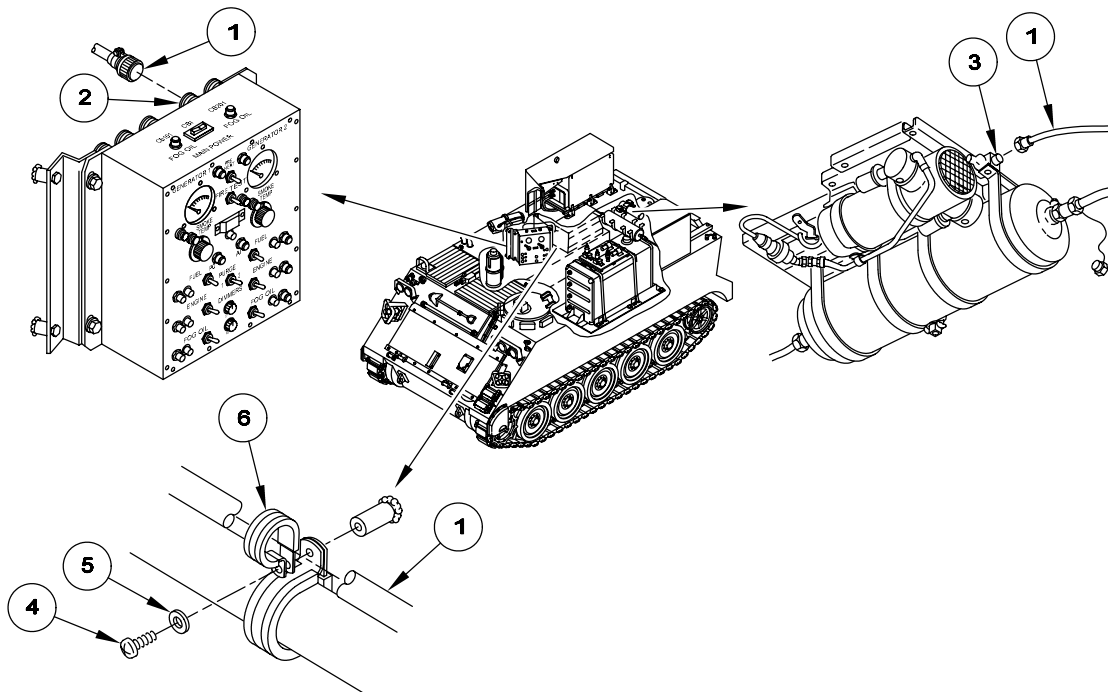
### REMOVAL

#### WARNING



**Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.**

1. Disconnect cable assembly (1) from control panel connector 1J2 (2).
2. Disconnect cable assembly (1) from air compressor cable assembly connector (3).
3. Remove six screws (4), lockwashers (5), clamps (6), and cable assembly (1) from carrier hull. Discard lockwashers.



**REPLACE AIR COMPRESSOR ELECTRICAL CABLE ASSEMBLY  
(M1059 ONLY) — Continued**

0700 00

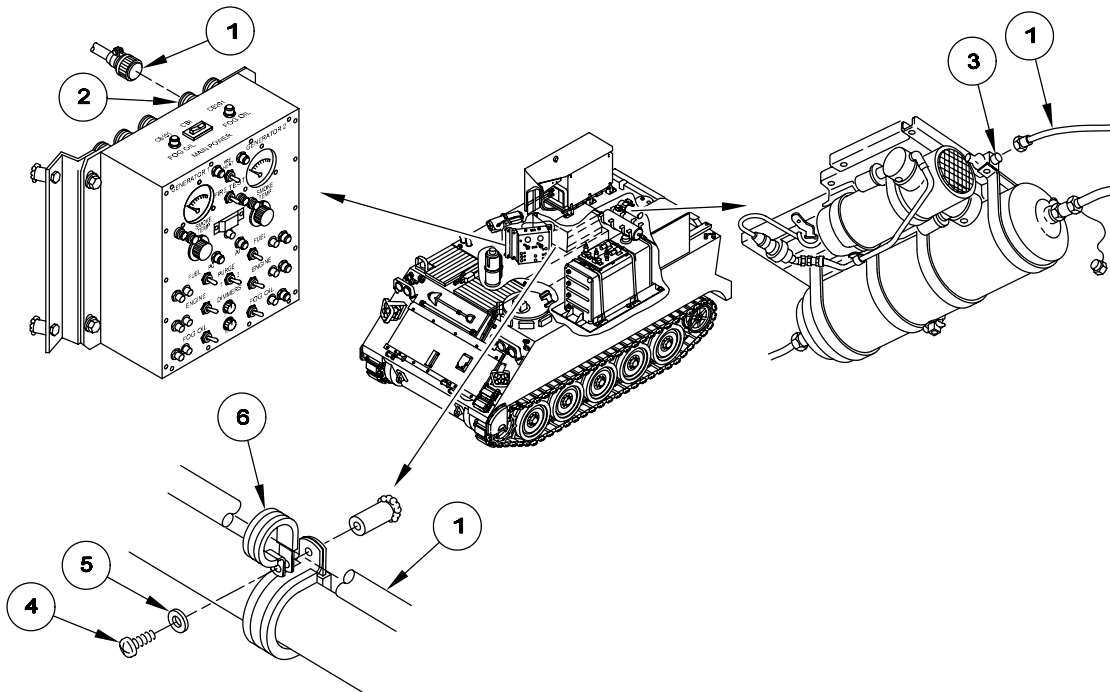
**INSTALLATION**

**WARNING**



**Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.**

1. Connect cable assembly (1) to air compressor cable assembly connector (3).
2. Connect cable assembly (1) to control panel assembly connector 1J2 (2).
3. Secure cable assembly (1) to hull with six clamps (6), screws (4), and new lockwashers (5).



**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.

**END OF TASK**



---

**REPLACE FOG OIL PUMP ELECTRICAL CABLE ASSEMBLY (M1059 ONLY)**

---

**0701 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0701 00-2).  
Installation (page 0701 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Carrier blocked (see your -10)

Circuit breaker CB1 to OFF (TM 3-1040-283-10)

Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Lockwasher (4)

Personnel Required

Unit Mechanic

---

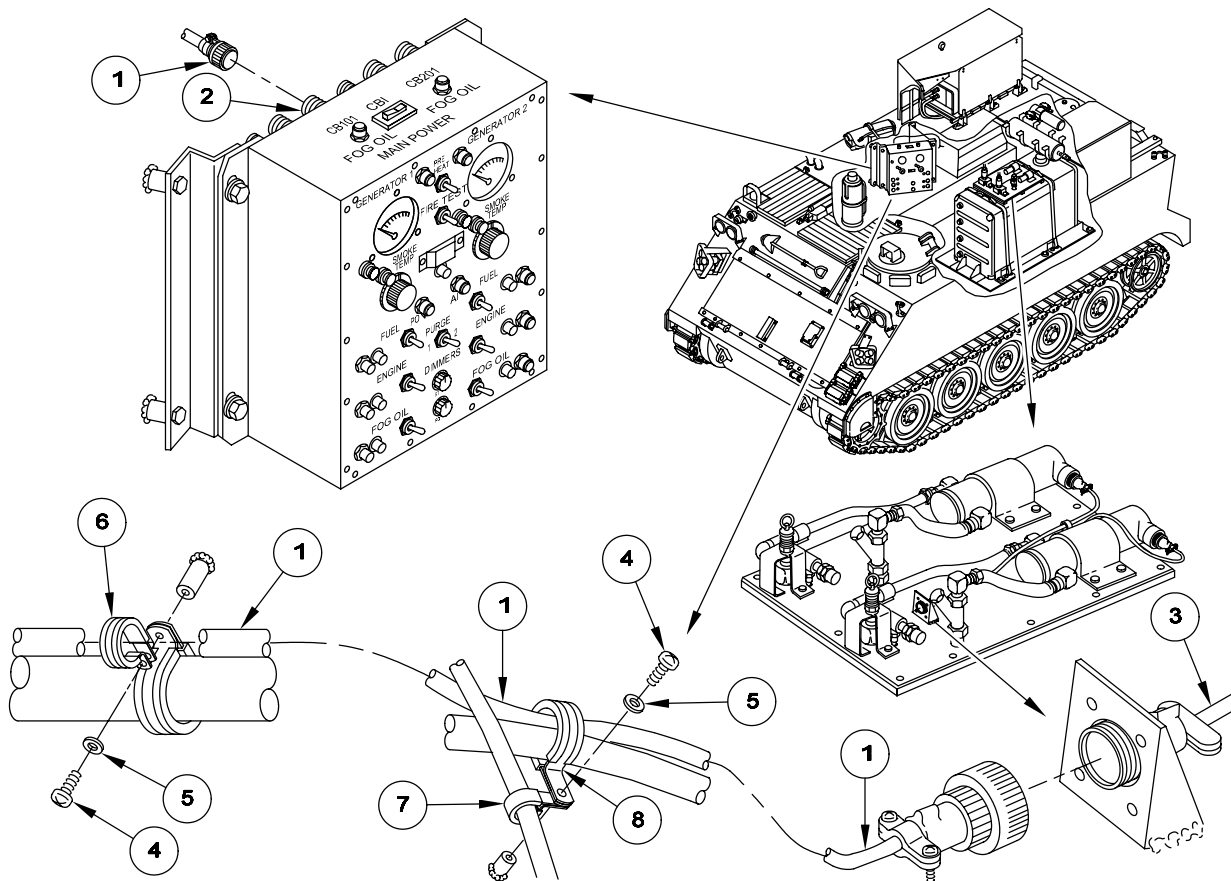
REMOVAL

**WARNING**



**Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.**

1. Disconnect cable assembly (1) from control panel connector 1J5 (2).
2. Disconnect cable assembly (1) from fog oil pump cable assembly (3).
3. Remove three screws (4), lockwashers (5), and clamps (6) from cable assembly (1). Discard lockwashers.
4. Remove other screw (4), lockwasher (5), clamps (6) and (7), and cable assembly (1) from carrier hull. Discard lockwasher.



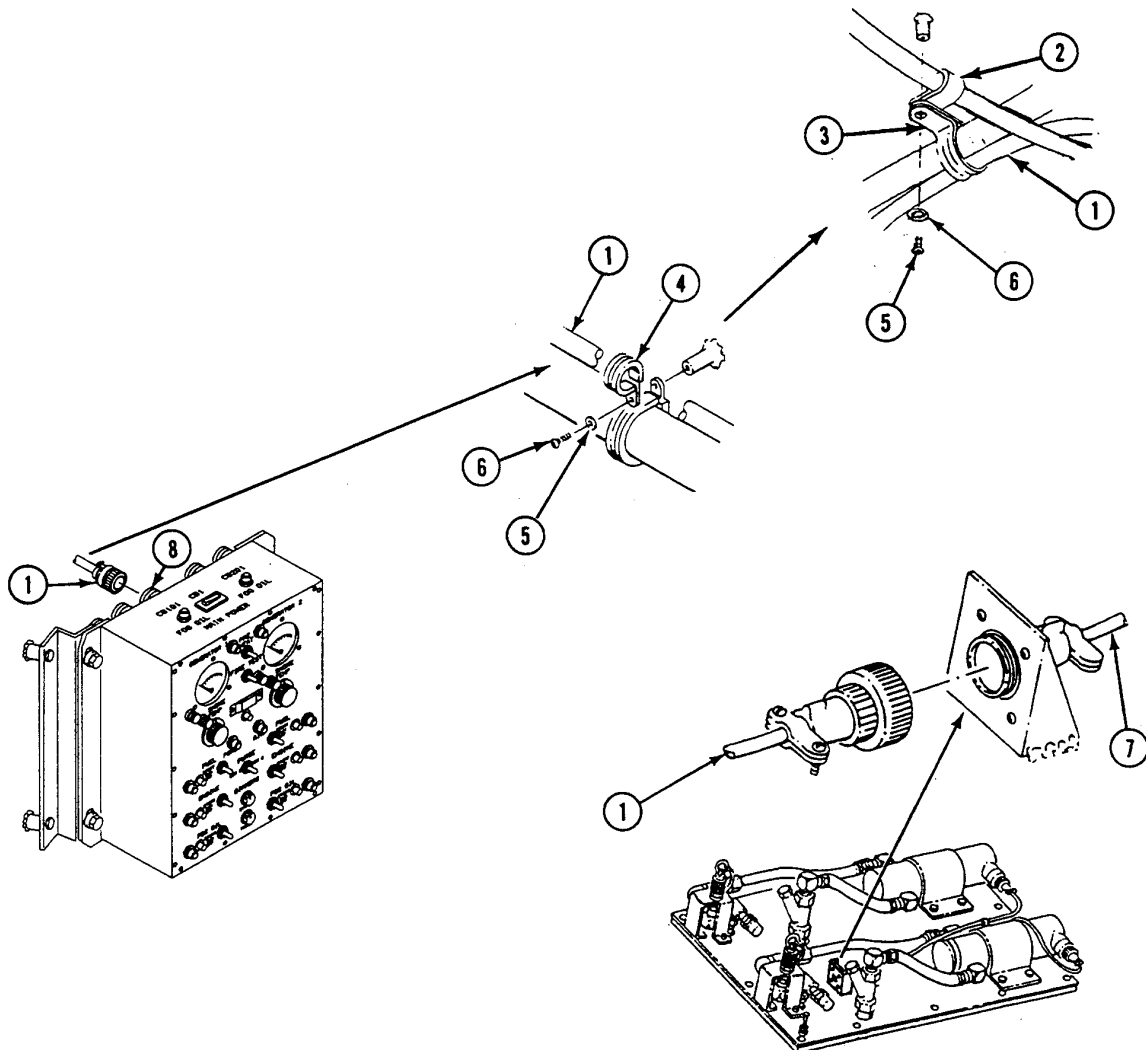
INSTALLATION

**WARNING**



**Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.**

1. Connect cable assembly (1) to control panel assembly connector 1J5 (8).
2. Connect cable assembly (1) to fog oil pump cable assembly (7).
3. Align cable assembly (1) on hull with clamps (2) and (3) and three clamps (4). Secure with new lockwashers (5) and screws (6).





**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.

**END OF TASK**

---

**REPLACE SMOKE GENERATOR INTERNAL CABLE ASSEMBLY  
(M1059 ONLY)**

---

**0702 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0702 00-2).
  - Installation (page 0702 00-3).
- 

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- Circuit breaker CB1 to OFF (TM 3-1040-283-10)
- Battery ground lead disconnected (WP 0294 00)
- Air pressure released from compressor reservoir (TM 3-1040-283-20&P)
- Inboard armor shield removed (WP 0713 00)
- Smoke generator assembly removed from bracket (WP 0697 00)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

- Locknut (4)
- Lockwasher (left side) (6)
- Lockwasher (right side) (1)

Personnel Required

Unit Mechanic

---

REPLACE SMOKE GENERATOR INTERNAL CABLE ASSEMBLY (M1059 ONLY) — Continued

0702 00

REMOVAL

**WARNING**

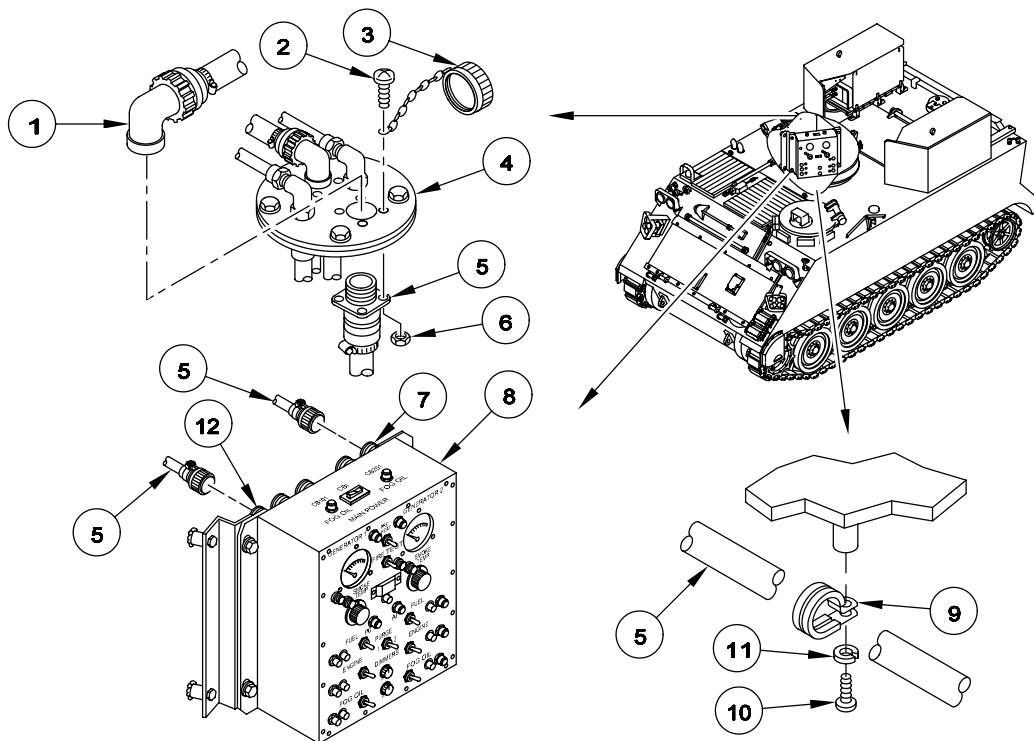


Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.

**NOTE**

Left and right cable assemblies are replaced the same way, except left side cable assembly has six clamps and right side has only one. Left side is shown.

1. Disconnect cable (5) from jack 1J3 (left) (7) or 1J4 (right) (12) on back of control panel (8).
2. Remove six screws (10), lockwashers (11), clamps (9), and cable (5) from hull. Discard lockwashers.
3. Remove connector (1) attached to cable (5) through access plate (4).
4. Remove four screws (2), dust cap (3), locknuts (6), and cable (5) from access plate (4). Discard locknuts.



## INSTALLATION

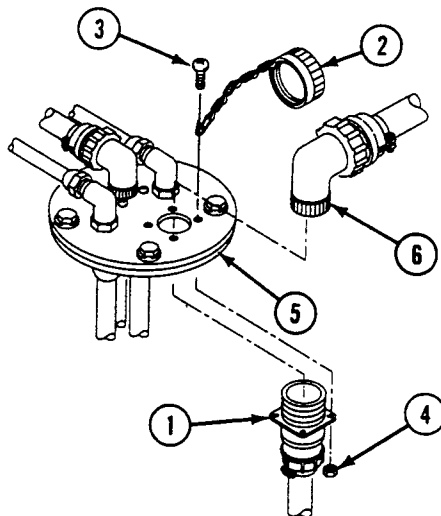
**WARNING**

Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.

**NOTE**

Left and right cable assemblies are replaced the same way, except left side cable assembly has six clamps and right side has only one. Left side is shown.

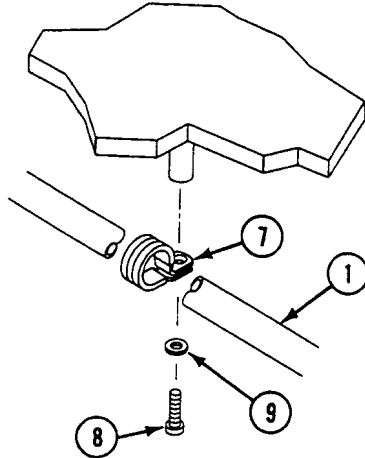
1. Install cable (1), dust cap (2), four screws (3), and new locknuts (4) on access plate (5).
2. Install connector (6) to cable (1) on access plate (5).



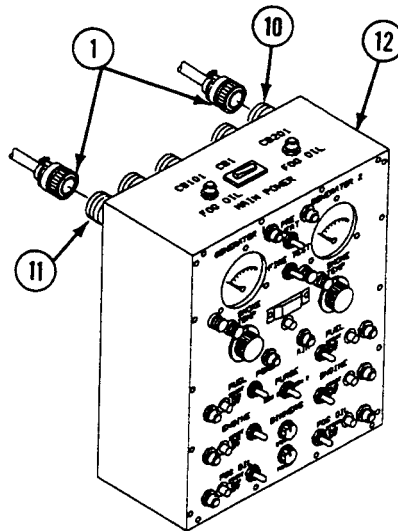
**REPLACE SMOKE GENERATOR INTERNAL CABLE ASSEMBLY (M1059 ONLY) — Continued**

0702 00

3. Install cable (1), six clamps (7), screws (8), and new lockwashers (9) on hull.



4. Connect cable (1) to jack 1J3 (left) (10) or 1J4 (right) (11) on back of control panel (12).



**FOLLOW-THROUGH STEPS**

1. Install smoke generator assembly on bracket (WP 0697 00).
2. Install inboard armor shield (WP 0713 00).
3. Connect battery ground lead (WP 0294 00).
4. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.

**END OF TASK**

---

**REPLACE ADAPTER ACCESS PLATE TO GENERATOR ELECTRICAL  
CABLE ASSEMBLY (M1059 ONLY)**

---

**0703 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0703 00-2).  
Installation (page 0703 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Circuit breaker CB1 to OFF (TM 3-1040-283-10)

Battery ground lead disconnected (WP 0294 00)

Personnel Required

Unit Mechanic

Air pressure released from compressor reservoir  
(TM 3-1040-283-20&P)

Inboard armor shield removed (WP 0713 00)

Smoke generator assembly removed from bracket  
(WP 0697 00)

---

---

**REPLACE ADAPTER ACCESS PLATE TO GENERATOR ELECTRICAL CABLE ASSEMBLY (M1059 ONLY) — Continued**

---

0703 00

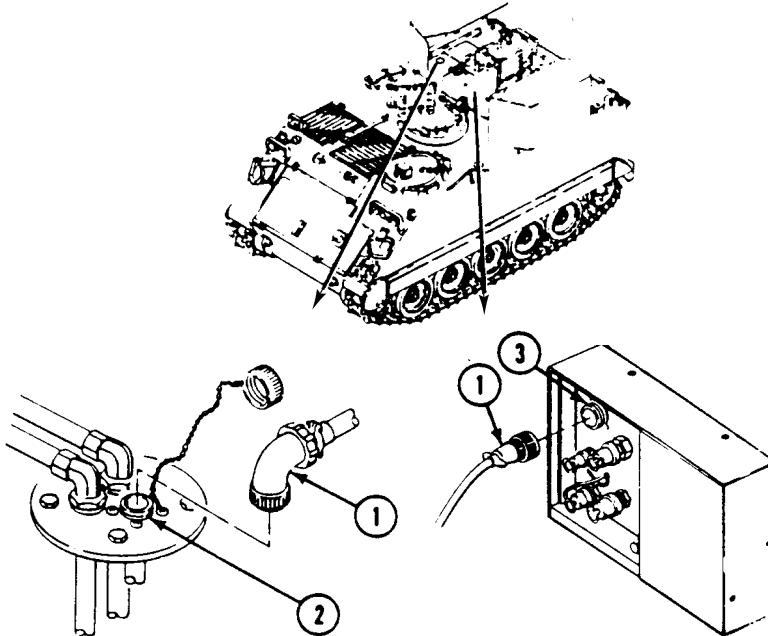
**REMOVAL****WARNING**

Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.

**NOTE**

Left and right cable assemblies are replaced the same way.

1. Disconnect cable assembly (1) from adapter access plate connector (2).
2. Disconnect cable assembly (1) from smoke generator cover assembly connector 5J1 (3).



---

**REPLACE ADAPTER ACCESS PLATE TO GENERATOR ELECTRICAL CABLE ASSEMBLY (M1059 ONLY) — Continued**

---

0703 00

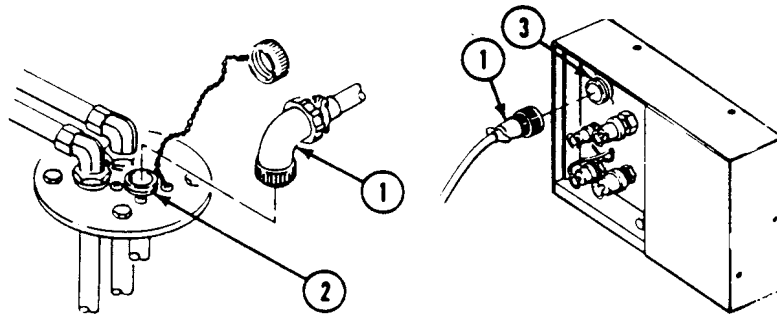
**INSTALLATION****WARNING**

**Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.**

**NOTE**

**Left and right cable assemblies are replaced the same way.**

1. Connect cable assembly (1) to smoke generator cover assembly connector 5J1 (3).
2. Connect cable assembly (1) to adapter access plate connector (2).

**FOLLOW-THROUGH STEPS**

1. Install smoke generator assembly on bracket (WP 0697 00).
2. Install inboard armor shield (WP 0713 00).
3. Connect battery ground lead (WP 0294 00).
4. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.

**END OF TASK**





---

**REPLACE AIR COMPRESSOR ASSEMBLY (M1059 ONLY)**

---

**0704 00****THIS WORK PACKAGE COVERS:**

Removal (page 0704 00-2).  
Installation (page 0704 00-3).

---

**INITIAL SETUP:**Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)  
Socket Wrench Set (WP 0780 00, Item 96)  
Torque Wrench (WP 0780 00, Item 102)

Materials/Parts

Lockwasher (8)

Personnel Required

Unit Mechanic  
Helper (2)

---

Equipment Condition

Engine stopped (see your -10)  
Carrier blocked (see your -10)  
Ramp lowered (see your -10)  
Circuit breaker CB1 to OFF (TM 3-1040-283-10)  
Battery ground lead disconnected (WP 0294 00)  
Air pressure released from compressor reservoir (TM  
3-1040-283-20&P)

REMOVAL

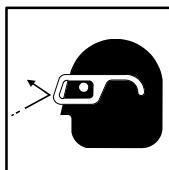
**WARNING**



**Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.**

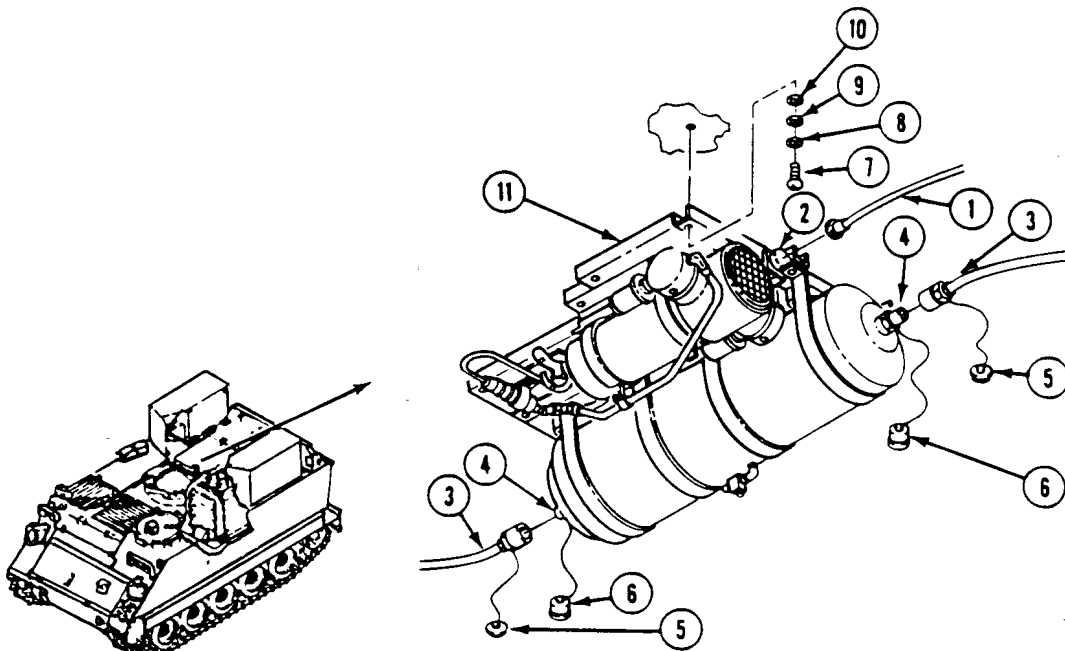
1. Disconnect air compressor electrical cable assembly (1) from compressor cable assembly connector (2).

**WARNING**



**Compressed air pressure from smoke generator can cause serious injury or death. To avoid accidents, bleed air before working on air compressor assembly or disconnecting any air hose.**

2. Disconnect two air lines (3) from two compressor air reservoir fittings (4). Install safety caps (5) on lines and dust covers (6) on fittings.
3. Remove eight screws (7), lockwashers (8), washers (9), washers (10), and compressor unit (11) from carrier. Have helpers assist. Discard lockwashers.

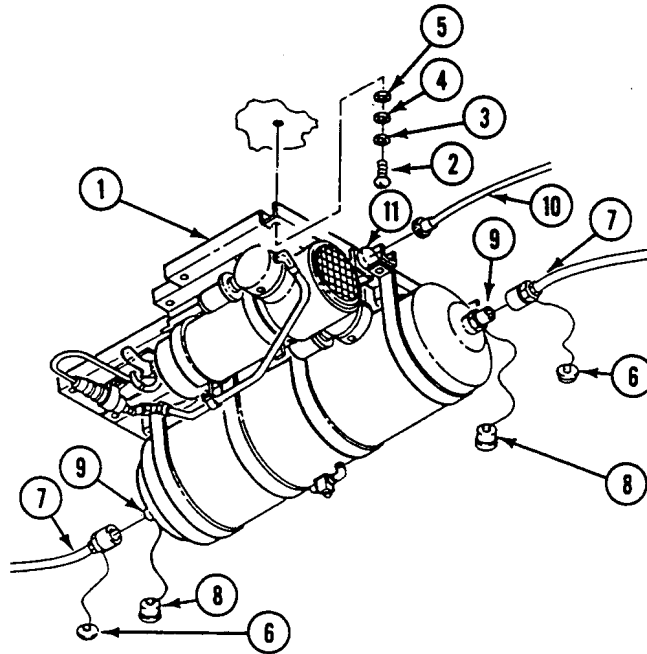


## INSTALLATION

**WARNING**

**Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.**

1. Position air compressor assembly (1) on ceiling of carrier. Have helpers assist. Secure with eight screws (2), new lockwashers (3), washers (4), and washers (5). TIGHTEN SCREWS TO 264-288 LB-IN (30-33 N·M) TORQUE. Use torque wrench.
2. Remove safety caps (6) from two air lines (7) and dust covers (8) from two air compressor reservoir fittings (9). Connect lines to fittings.
3. Connect air compressor electrical cable assembly (10) to compressor cable assembly connector (11).



**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.
3. Raise and lock ramp (see your -10).
4. Stop engine (see your -10).

**END OF TASK**

---

**REPLACE FOG OIL PUMP ASSEMBLY (M1059 ONLY)**

---

**0705 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0705 00-1).  
 Installation (page 0705 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)  
 Carrier blocked (see your -10)  
 Ramp lowered (see your -10)  
 Circuit breaker CB1 to OFF (TM 3-1040-283-10)  
 Battery ground lead disconnected (WP 0294 00)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

Lockwasher (12)

Personnel Required

Unit Mechanic

---

**REMOVAL**

**WARNING**

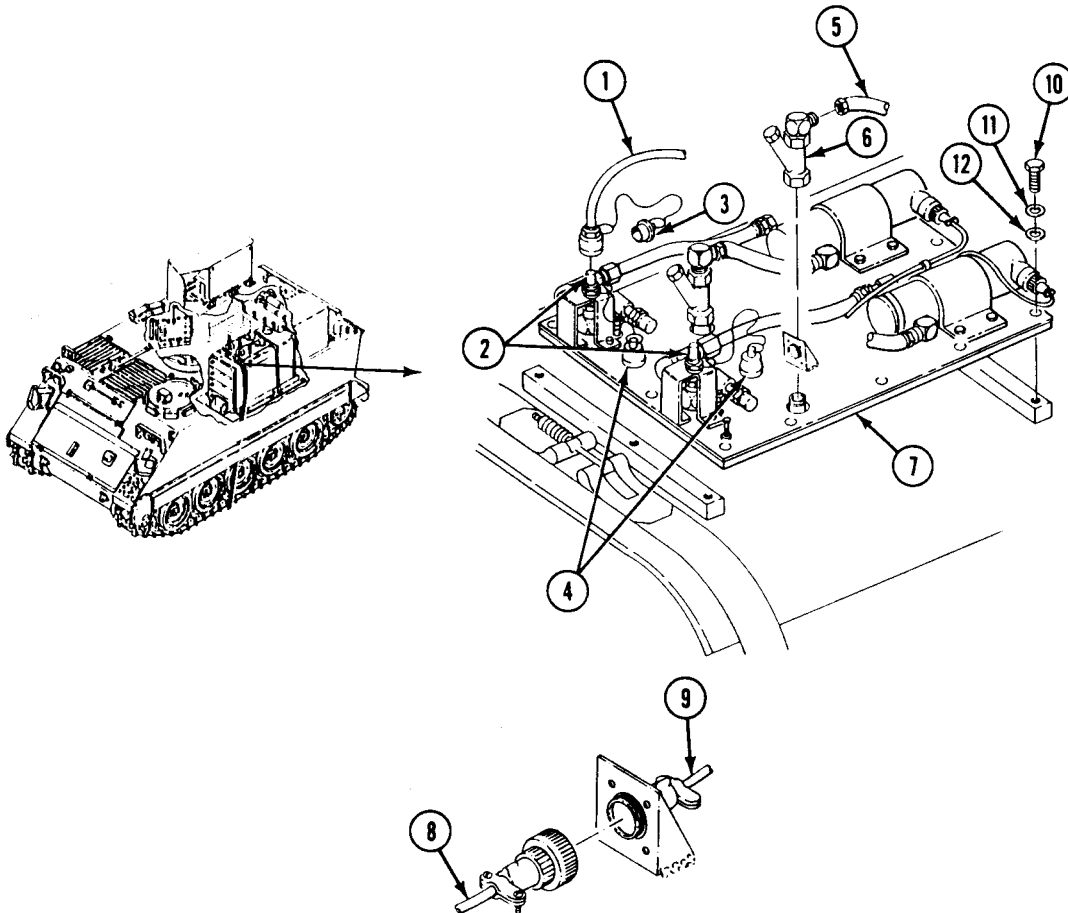


**Fog oil can catch fire and seriously injure or kill soldiers and damage or destroy vehicles. Wipe up spills immediately. Fog oil is slippery and can cause soldiers to fall and get injured.**

**WARNING**

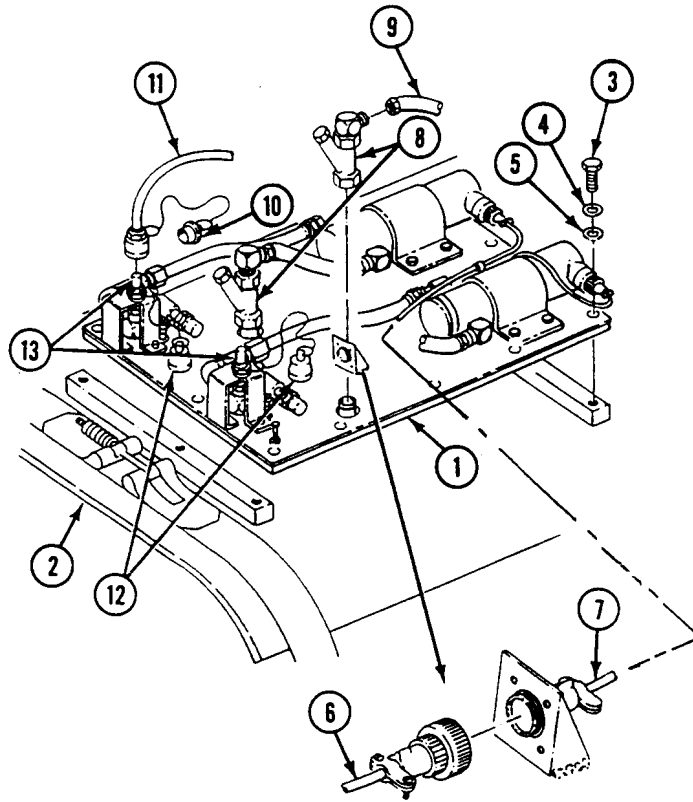
**Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.**

1. Disconnect two fog oil hoses (1) from two quick disconnect fittings (2). Tag hoses.
2. Install safety caps (3) on hoses (1) and dust caps (4) on fittings (2).
3. Disconnect two fog oil hoses (5) from two strainers (6).
4. Remove strainers (6) from fog oil pump assembly (7).
5. Disconnect cable assembly (8) from fog oil pump cable assembly (9).
6. Remove 12 screws (10), lockwashers (11), washers (12), and pump assembly (7) from fog oil tank. Discard lockwashers.



**INSTALLATION**

1. Install fog oil pump assembly (1) on fog oil tank (2). Secure with 12 screws (3), new lockwashers (4), and washers (5).
2. Connect cable assembly (6) to fog oil pump cable assembly (7).
3. Install two strainers (8) on pump assembly (1).
4. Connect two fog oil hoses (9) to two strainers (8).
5. Remove safety caps (10) from two fog oil hoses (11) and dust caps (12) from two quick disconnect couplings (13).
6. Connect two fog oil hoses (11) to two quick disconnect couplings (13).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.
3. Raise and lock ramp (see your -10).
4. Stop engine (see your -10).

**END OF TASK**





---

**REPLACE SMOKE GENERATOR FUEL CAN LID ASSEMBLY (M1059 ONLY)**

---

**0706 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0706 00-2).  
Installation (page 0706 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Materials/Parts

Sealing compound (WP 0782 00, Item 64)

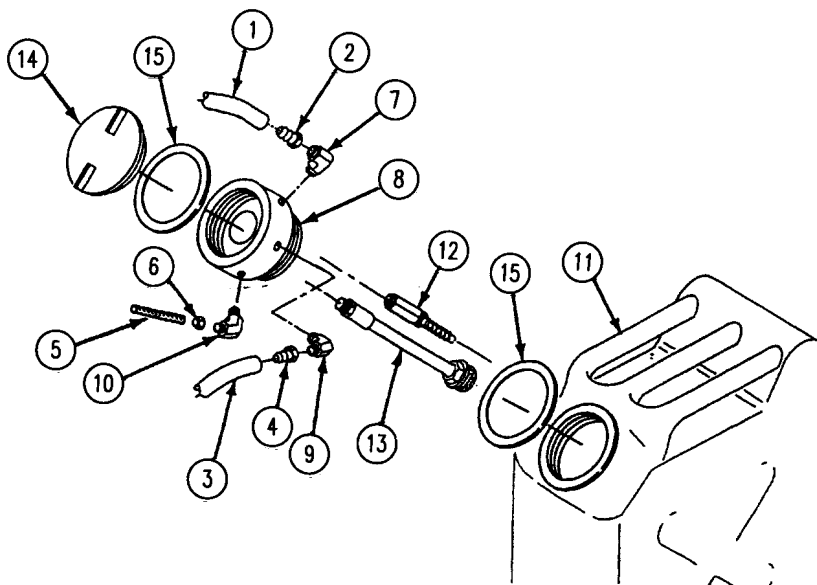
---

## REMOVAL

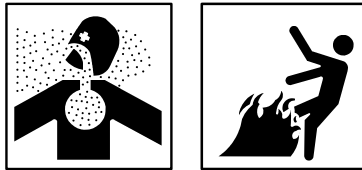
**WARNING**

**Fog oil can catch fire and seriously injure or kill soldiers and damage or destroy vehicles. Wipe up spills immediately. Fog oil is slippery and can cause soldiers to fall and get injured.**

1. Remove return hose (1) from adapter (2).
2. Remove supply hose (3) from adapter (4).
3. Remove vent hose (5) from adapter (6).
4. Remove adapter (2) from return elbow (7).
5. Remove return elbow (7) from lid (8).
6. Remove adapter (4) from supply elbow (9).
7. Remove supply elbow (9) and lid (8).
8. Remove adapter (6) from bent elbow (10).
9. Remove vent elbow (10) from lid (8).
10. Remove lid (8) from fuel can (11).
11. Remove check valve (12) from lid (8).
12. Remove fuel pipe (13) from lid (8).
13. Remove fuel lid closure (14) and two gaskets (15) from lid (8).



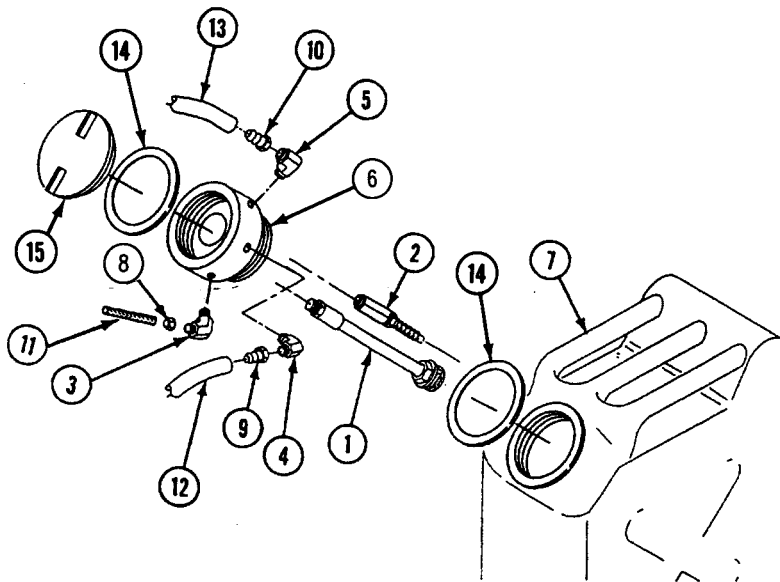
## INSTALLATION

**WARNING**

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

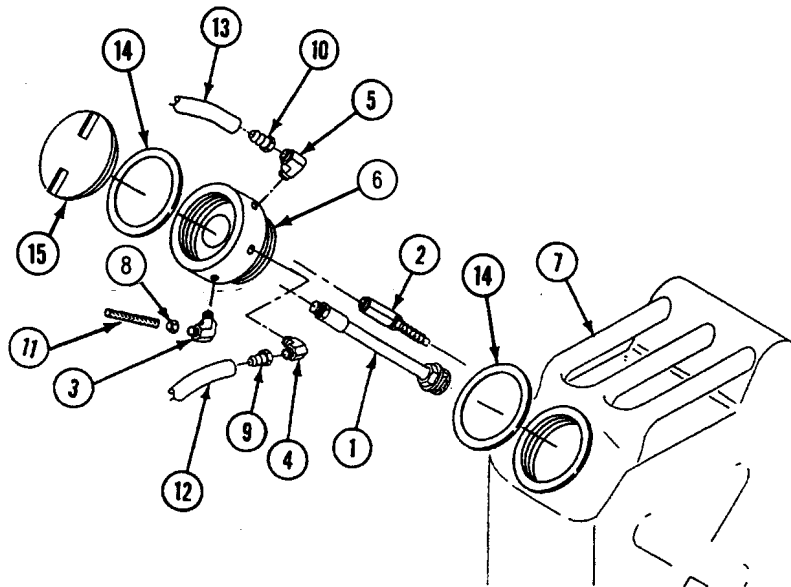
**Always use in well ventilated areas, away from heat, sparks, and flames. Do not breathe fumes. Do not allow into contact with skin and eyes. Use goggles or face shield and protective gloves.**

1. Coat fuel pipe (1), check valve (2), and vent, supply, and return elbows (3), (4), and (5) with sealing compound.
2. Install check valve (2) on lid (6).
3. Install fuel pipe (1) in lid (6).
4. Install two gaskets (14) and fuel lid closure (15) on lid (6).
5. Install lid (6) in fuel can (7).
6. Install vent elbow (3) in lid (6).
7. Install supply elbow (4) in lid (6).



**REPLACE SMOKE GENERATOR FUEL CAN LID ASSEMBLY (M1059 ONLY) — Continued****0706 00**

8. Install return elbow (5) in lid (6).
9. Install adapter (8) on vent elbow (3).
10. Install adapter (9) on supply elbow (4).
11. Install adapter (10) on return elbow (5).
12. Install vent hose (11) on adapter (8).
13. Install supply hose (12) on adapter (9).
14. Install return hose (13) on adapter (10).

**END OF TASK**

---

**REPLACE SMOKE GENERATOR FUEL LINES AND GUARDS (M1059 ONLY)**

---

**0707 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0707 00-2).  
 Installation (page 0707 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)  
 Torque Wrench (WP 0780 00, Item 100)

Materials/Parts

Lockwasher (14)

Personnel Required

Unit Mechanic

Equipment Condition

Engine stopped (see your -10)  
 Carrier blocked (see your -10)  
 Circuit breaker CB1 to OFF (TM 3-1040-283-10)  
 Battery ground lead disconnected (WP 0294 00)  
 Air pressure released from compressor reservoir  
 (TM 3-1040-283-20&P)  
 Inboard armor shield removed (WP 0713 00)  
 Smoke generator assembly removed from bracket  
 (WP 0697 00)

---

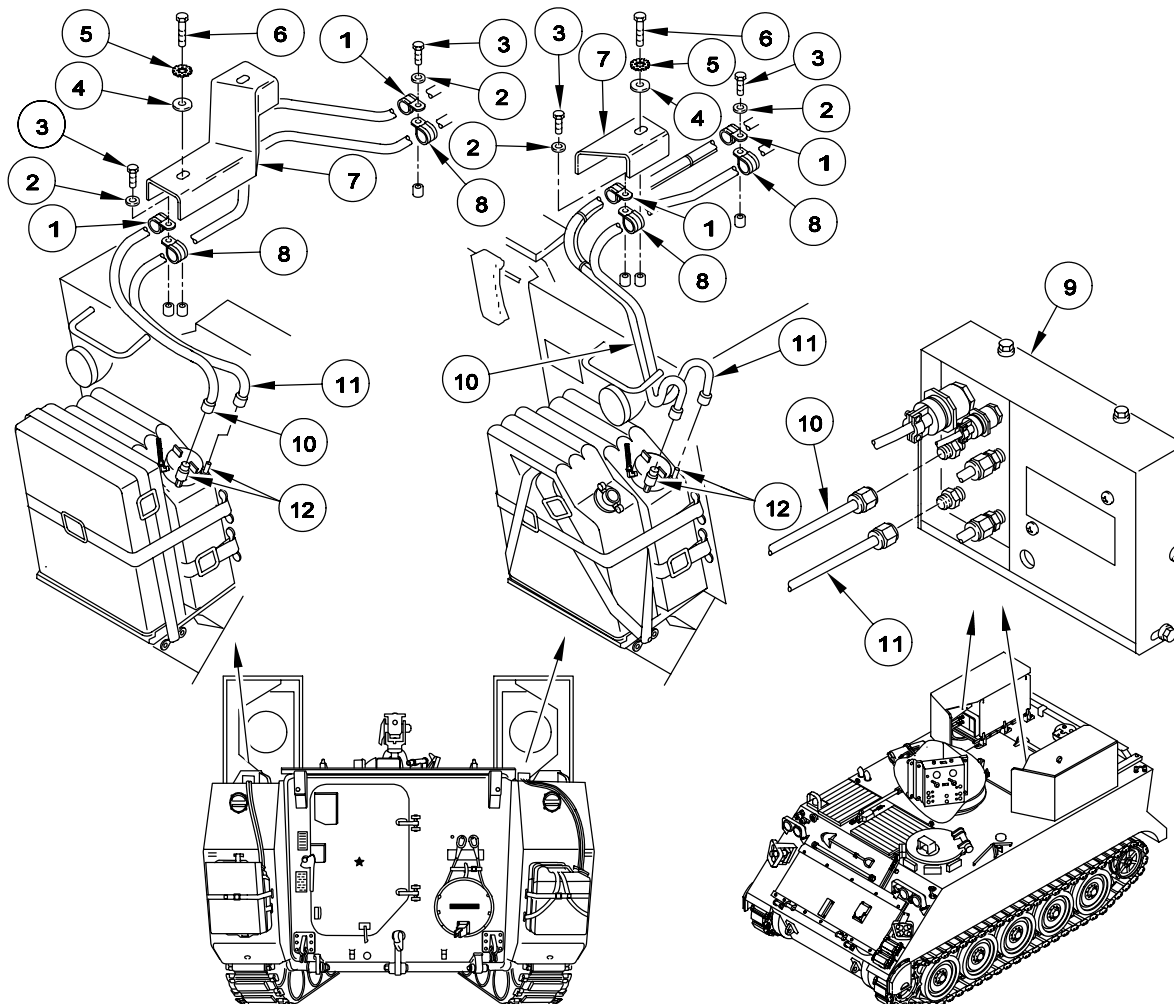
REMOVAL

**WARNING**



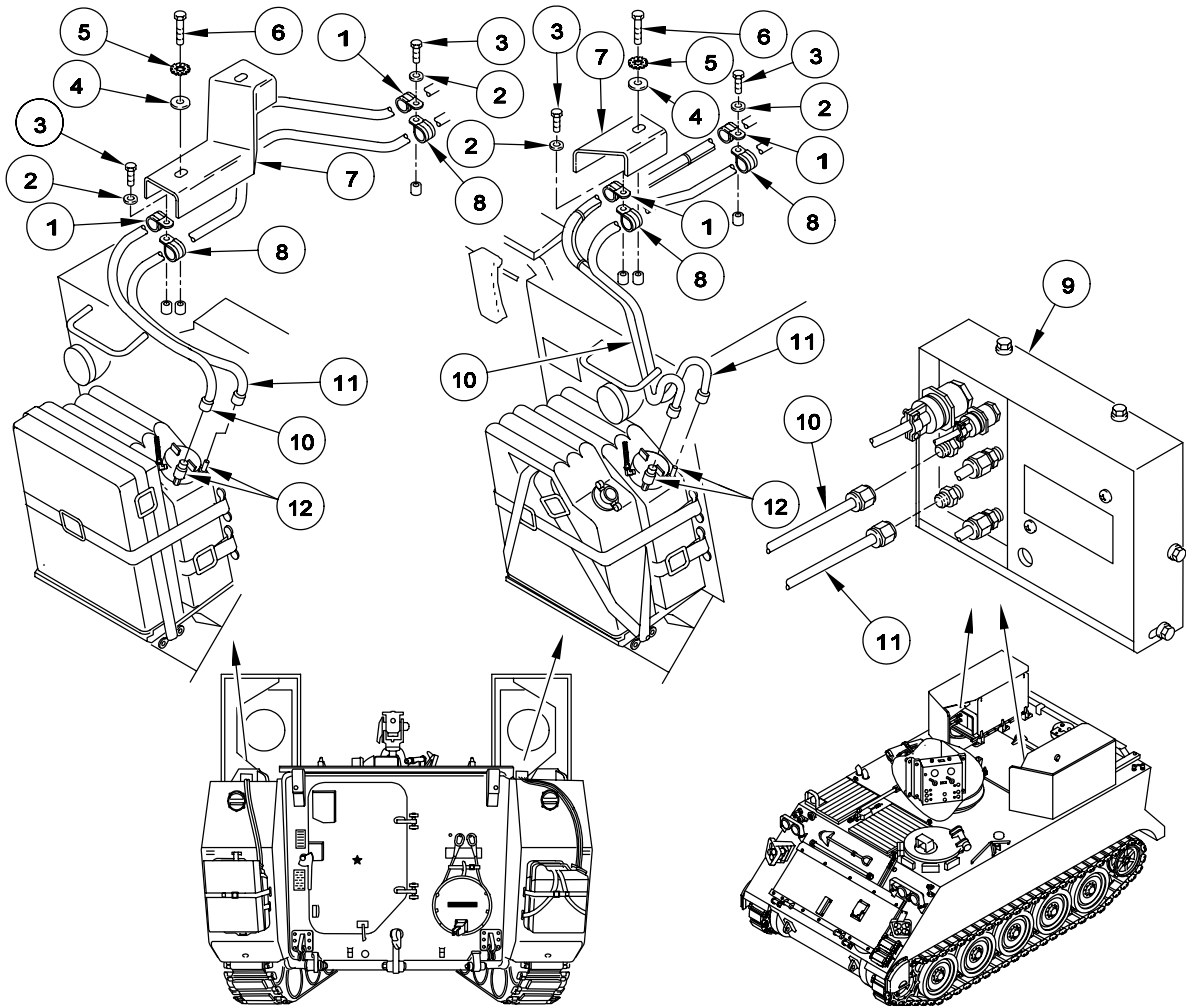
**Fog oil can catch fire and seriously injure or kill soldiers and damage or destroy vehicles. Wipe up spills immediately. Fog oil is slippery and can cause soldiers to fall and get injured.**

1. Remove three screws (6), lockwashers (5), washers (4), and two fuel line guards (7) from hull. Discard lockwashers.
2. Remove 11 screws (3), lockwashers (2), and clamps (7) and (8) that secure fuel supply line (10) and return line (11) to hull. Discard lockwashers.
3. Disconnect fuel supply line (10) and return line (11) from two smoke generator cover assemblies (9).
4. Disconnect fuel lines (10) and (11) from two plugs (12). Remove fuel lines from carrier.



**INSTALLATION**

1. Connect fuel lines (10) and (11) to two smoke generator cover assemblies (9).
2. Secure fuel supply line (10) and return line (11) to hull with 11 clamps (1) and (8), new lockwashers (5), and screws (6).
3. Connect fuel lines (10) and (11) to two fuel plugs (12).
4. Install two guards (7) on hull. Secure with three new lockwashers (5), washers (4), and screws (6). **TIGHTEN SCREWS TO 96-120 LB-IN (11-14 N·M).** Use torque wrench.



**FOLLOW-THROUGH STEPS**

1. Install smoke generator assembly on bracket (WP 0697 00).
2. Install inboard armor shield (WP 0713 00).
3. Connect battery ground lead (WP 0294 00).
4. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.

**END OF TASK**





**REPLACE SMOKE GENERATOR ADAPTER ACCESS PLATE AND GASKET (M1059 ONLY)**

**0708 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0708 00-1).
- Installation (page 0708 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- Circuit breaker CB1 to OFF (TM 3-1040-283-10)
- Battery ground lead disconnected (WP 0294 00)
- Air pressure released from compressor reservoir (TM 3-1040-283-20&P)
- Inboard armor shield lowered (WP 0713 00)
- Smoke generator assembly removed from bracket (WP 0697 00)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

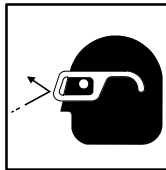
- Locknut (8)
- Lockwasher (6)

Personnel Required

Unit Mechanic

**REMOVAL**

**WARNING**



**Compressed air pressure from smoke generator can cause serious injury or death. To avoid accidents, bleed air before working on air compressor assembly or disconnecting any air hose.**

**WARNING**



**Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.**

**REPLACE SMOKE GENERATOR ADAPTER ACCESS PLATE AND GASKET  
(M1059 ONLY) — Continued**

0708 00

**NOTE**

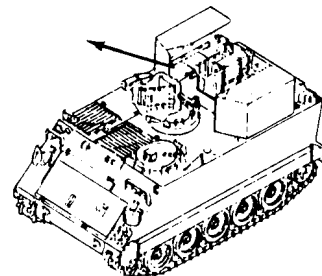
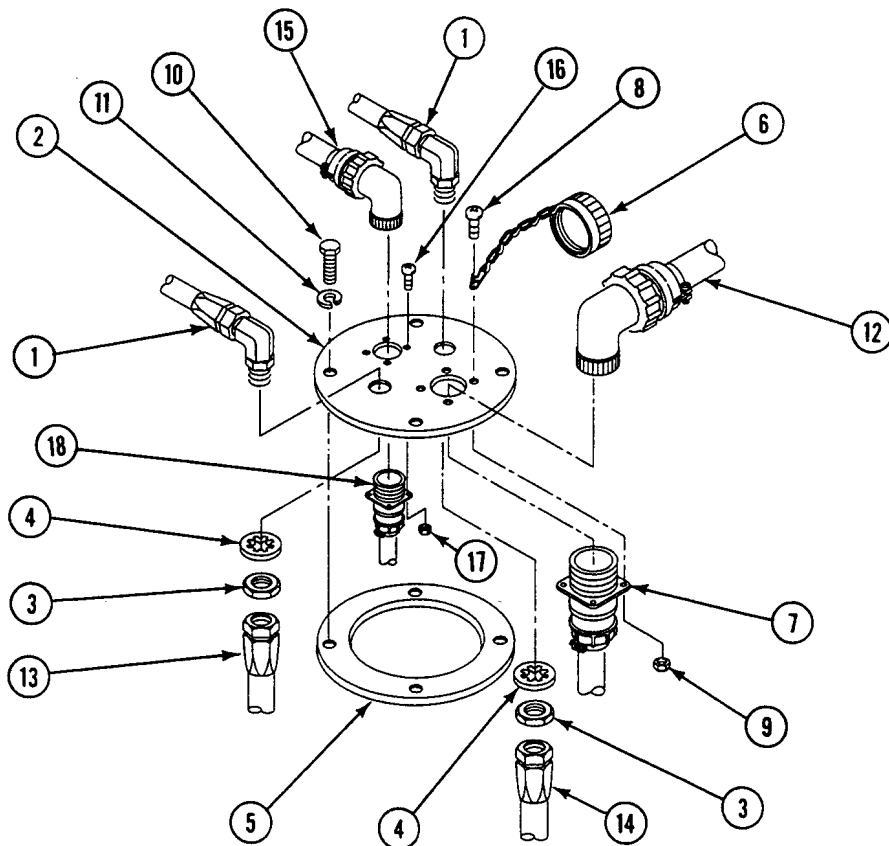
**Left and right access plates and gasket are replaced the same way.**

1. Disconnect air hose (13) and fog oil hose (14) from two elbows (1).
2. Disconnect electrical cable assembly (12) from adapter access plate fitting (7).
3. Remove four screws (10), lockwashers (11), and adapter access plate (2) from hull. Discard lockwashers.
4. Disconnect exterior cable (15) from interior cable (18) at adapter access plate (2).
5. Remove four screws (16), locknuts (17), and interior cable (18) from adapter access plate (2). Discard locknuts.
6. Remove dust cover (6) four screws (8), locknuts (9), and adapter access plate fitting (7) from adapter access plate (2). Discard locknuts.
7. Remove gasket (5) from plate (2). Replace if damaged.

**NOTE**

**If only gasket is to be replaced, go to INSTALLATION Step 1.**

8. Remove two jamnuts (3) and lockwashers (4) from two elbows (1). Remove elbows from plate (2). Discard lockwashers.



**REPLACE SMOKE GENERATOR ADAPTER ACCESS PLATE AND GASKET  
(M1059 ONLY) — Continued**

0708 00

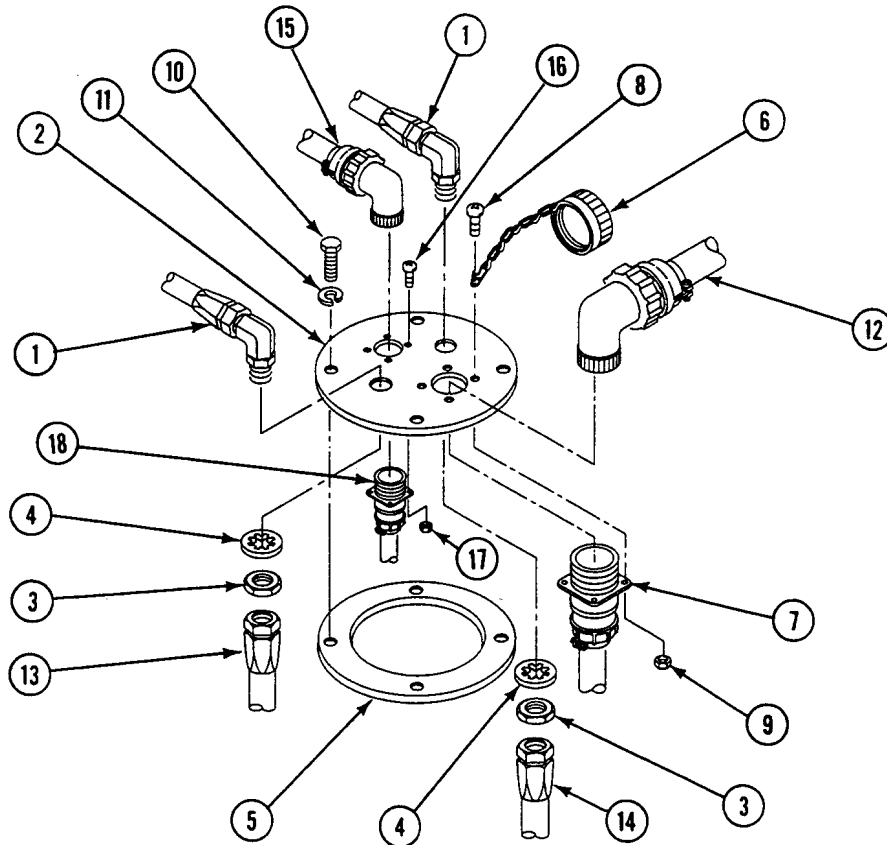
**INSTALLATION**

**WARNING**



**Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.**

1. Install two elbows (1) on adapter access plate (2). Secure with two jamnuts (3) and new lockwashers (4).
2. Install gasket (5) on plate (2).
3. Install dust cover (6) and fitting (7) on plate (2). Secure with four screws (8) and new locknuts (9).
4. Install interior cable (18), four screws (16), and new locknuts (17) on adapter access plate (2).
5. Connect exterior cable (15) to interior cable (18) on adapter access plate (2).
6. Install plate (2) on hull. Secure with four screws (10) and new lockwashers (11).
7. Connect electrical cable assembly (12) to plate fitting (7).
8. Connect air hose (13) and fog oil hose (14) to two elbows (1).



---

**REPLACE SMOKE GENERATOR ADAPTER ACCESS PLATE AND GASKET  
(M1059 ONLY) — Continued**

---

**0708 00**

**FOLLOW-THROUGH STEPS**

1. Install smoke generator assembly on bracket (WP 0697 00).
2. Raise inboard armor shield (WP 0713 00).
3. Connect battery ground lead (WP 0294 00).
4. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.

**END OF TASK**

---

**REPLACE SMOKE GENERATOR COMPRESSOR RESERVOIR TO  
ADAPTER ACCESS PLATE AIR HOSE (M1059 ONLY)**

---

**0709 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0709 00-2).  
Installation (page 0709 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Circuit breaker CB1 to OFF (TM 3-1040-283-10)

Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Lockwasher (3)

Air pressure released from compressor reservoir  
(TM 3-1040-283-20&P)

Personnel Required

Unit Mechanic

---

---

**REPLACE SMOKE GENERATOR COMPRESSOR RESERVOIR TO ADAPTER  
ACCESS PLATE AIR HOSE (M1059 ONLY) — Continued**


---

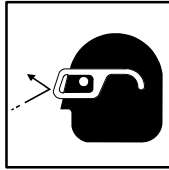
0709 00

**REMOVAL**


---

**WARNING**


---

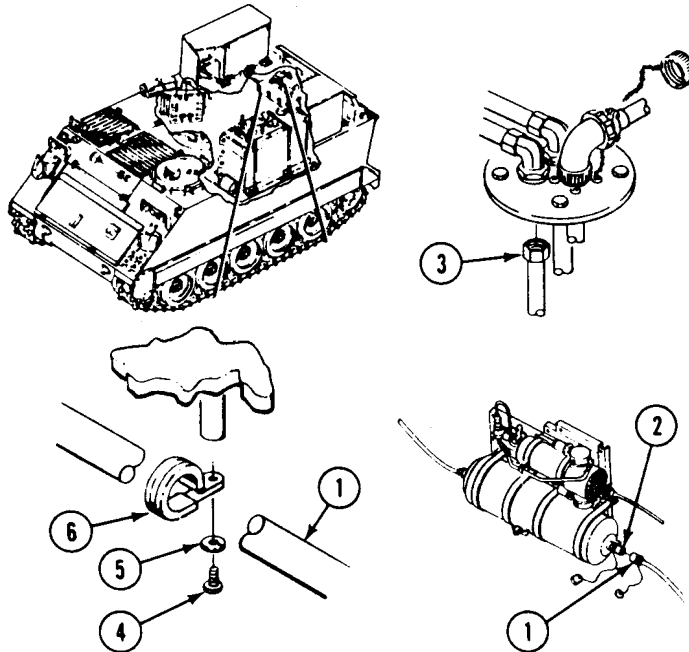


**Compressed air pressure from smoke generator can cause serious injury or death. To avoid accidents, bleed air before working on air compressor assembly or disconnecting any air hose.**

**NOTE**

**Left and right hoses are replaced the same way.**

1. Disconnect air hose (1) from compressor reservoir fitting (2).
2. Disconnect air hose (1) from adapter plate fitting (3).
3. Remove three screws (4), lockwashers (5), clamps (6), and air hose (1) from carrier hull. Discard lockwashers.



---

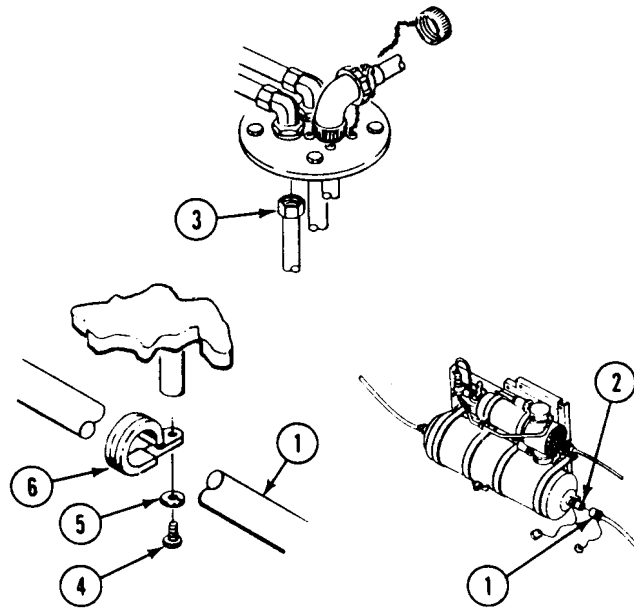
**REPLACE SMOKE GENERATOR COMPRESSOR RESERVOIR TO ADAPTER  
ACCESS PLATE AIR HOSE (M1059 ONLY) — Continued**

---

0709 00

**INSTALLATION**

1. Secure air hose (1) to carrier hull with three clamps (6), new lockwashers (5), and screws (4).
2. Connect air hose (1) to adapter plate fitting (3).
3. Connect air hose (1) to compressor reservoir fitting (2).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.

**END OF TASK**





---

**REPLACE SMOKE GENERATOR ADAPTER ACCESS PLATE TO  
COVER ASSEMBLY AIR HOSE (M1059 ONLY)**

---

**0710 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0710 00-2).  
Installation (page 0710 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Personnel Required

Unit Mechanic

Equipment Condition

Engine stopped (see your -10)  
Carrier blocked (see your -10)  
Circuit breaker CB1 to OFF (TM 3-1040-283-10)  
Battery ground lead disconnected (WP 0294 00)  
Air pressure released from compressor reservoir (TM  
3-1040-283-20&P)  
Inboard armor shield removed (WP 0713 00)  
Smoke generator assembly removed from bracket  
(WP 0697 00)

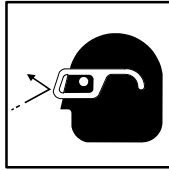
---

---

**REPLACE SMOKE GENERATOR ADAPTER ACCESS PLATE TO COVER  
ASSEMBLY AIR HOSE (M1059 ONLY) — Continued**

---

0710 00

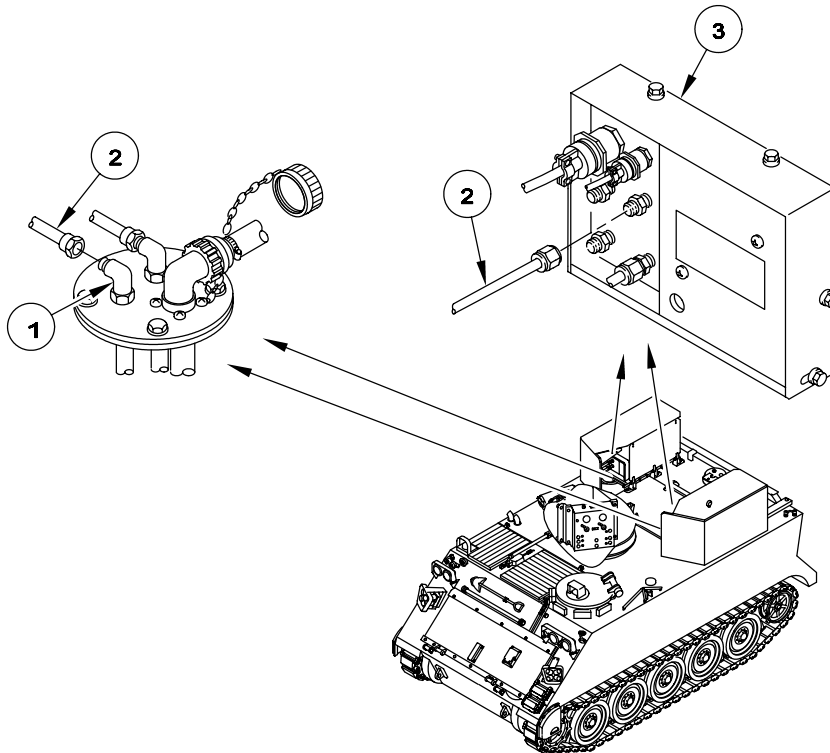
**REMOVAL****WARNING**

Compressed air pressure from smoke generator can cause serious injury or death. To avoid accidents, bleed air before working on air compressor assembly or disconnecting any air hose.

**NOTE**

Left side and right side hoses are replaced the same way.

1. Disconnect air hose (2) from adapter plate elbow (1).
2. Disconnect air hose (2) from cover assembly quick disconnect coupling (3).



---

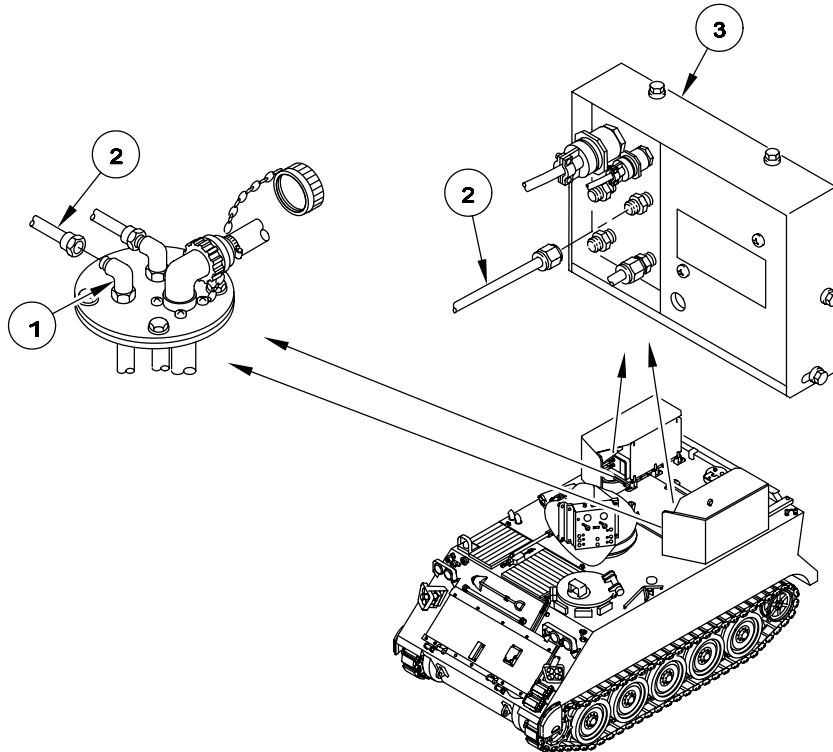
**REPLACE SMOKE GENERATOR ADAPTER ACCESS PLATE TO COVER  
ASSEMBLY AIR HOSE (M1059 ONLY) — Continued**

---

0710 00

**INSTALLATION**

1. Connect air hose (2) to cover assembly quick disconnect coupling (3).
2. Connect air hose (2) to adapter assembly elbow (1).

**FOLLOW-THROUGH STEPS**

1. Install smoke generator assembly on bracket (WP 0697 00).
2. Install inboard armor shield (WP 0713 00).
3. Connect battery ground lead (WP 0294 00).
4. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.

**END OF TASK**



---

**REPLACE FOG OIL TANK QUICK DISCONNECT TO ADAPTER  
ACCESS PLATE HOSE (M1059 ONLY)**

---

**0711 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0711 00-2).  
Installation (page 0711 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Circuit breaker CB1 to OFF (TM 3-1040-283-10)

Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Lockwasher (9)

Personnel Required

Unit Mechanic

---

REPLACE FOG OIL TANK QUICK DISCONNECT TO ADAPTER ACCESS  
 PLATE HOSE (M1059 ONLY) — Continued

0711 00

REMOVAL

**WARNING**

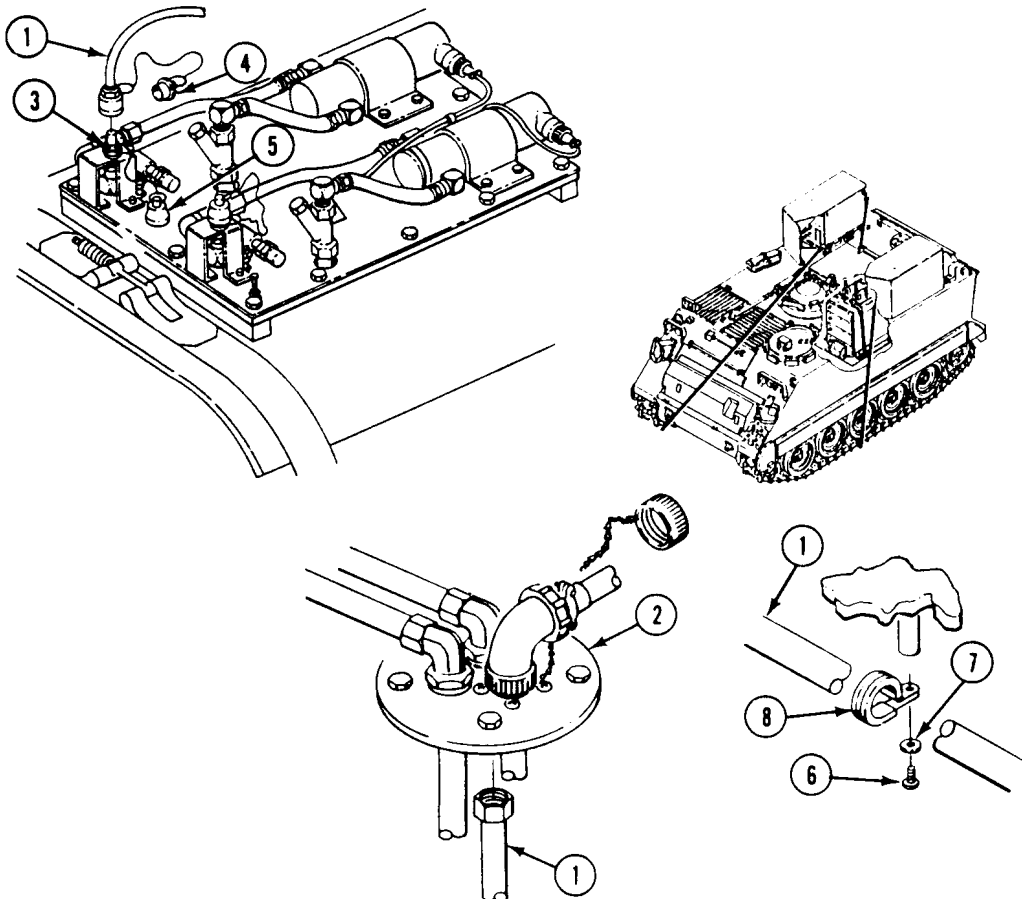


**Fog oil is slippery and can cause soldiers to fall and get injured. Clean up all spillage or leakage of fog oil as soon as possible by washing the area, or absorbing the fog oil with sand or other absorbent material.**

**NOTE**

**Left and right hoses are replaced the same way.**

1. Disconnect fog oil hose assembly (1) from access plate adapter (2).
2. Disconnect fog oil hose assembly (1) from fog oil tank at quick disconnect coupling (3).
3. Install safety cap (4) on hose (1) and dust cap (5) on quick disconnect coupling (3).
4. Remove four screws (6), lockwashers (7), clamps (8), and fog oil hose assembly (1) from carrier hull (right side: remove five screws, lockwashers, and clamps). Discard lockwashers.



---

**REPLACE FOG OIL TANK QUICK DISCONNECT TO ADAPTER ACCESS  
PLATE HOSE (M1059 ONLY) — Continued**

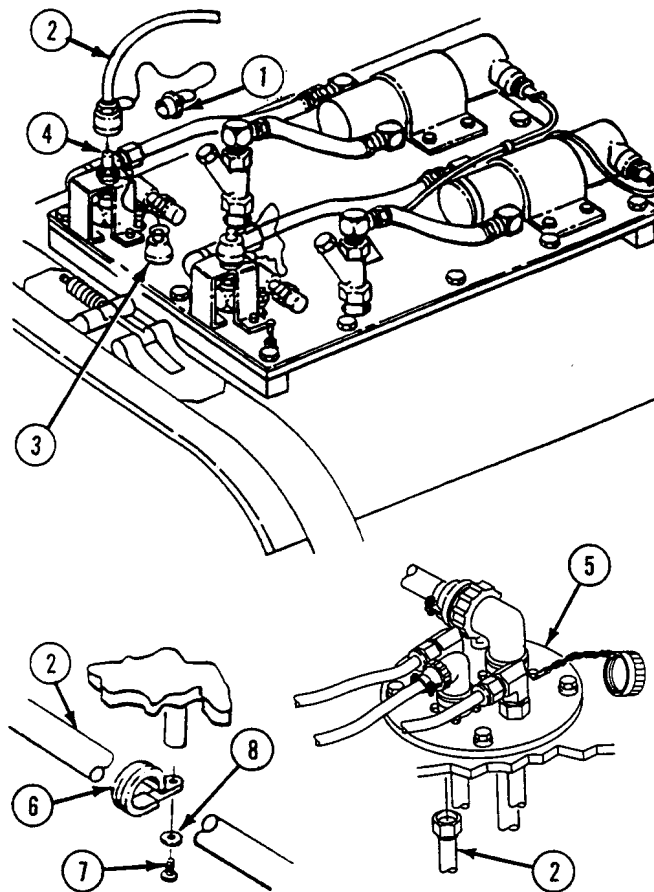

---

0711 00

**INSTALLATION****NOTE**

**Left and right hoses are replaced the same way.**

1. Remove safety cap (1) from hose (2) and dust cap (3) from quick disconnect coupling (4).
2. Connect fog oil hose assembly (2) to fog oil tank quick disconnect coupling (4).
3. Connect fog oil hose assembly (2) to access plate adapter (5).
4. Secure hose assembly (2) to hull with four clamps (6), screws (7), and new lockwashers (8) (right side: secure with five clamps, screws, and new lockwashers).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.

**END OF TASK**





---

**REPLACE COVER ASSEMBLY FOG OIL QUICK DISCONNECT TO  
ADAPTER ACCESS PLATE HOSE (M1059 ONLY)**

---

**0712 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0712 00-2).  
Installation (page 0712 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Personnel Required

Unit Mechanic

Equipment Condition

Engine stopped (see your -10)  
Carrier blocked (see your -10)  
Circuit breaker CB1 to OFF (TM 3-1040-283-10)  
Battery ground lead disconnected (WP 0294 00)  
Air pressure released from compressor reservoir (TM  
(TM 3-1040-283-20&P)  
Inboard armor shield removed (WP 0713 00)  
Smoke generator assembly removed from bracket  
(WP 0697 00)

---

## REMOVAL

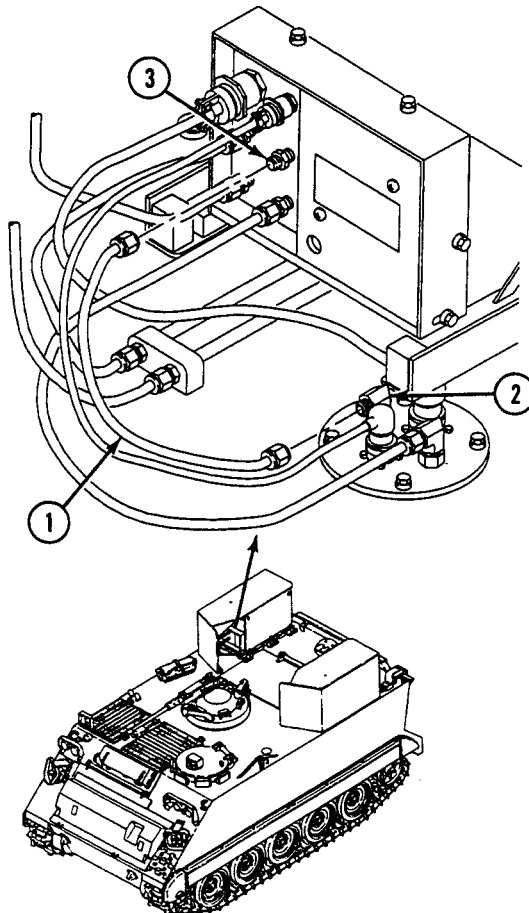
**WARNING**

Fog oil is slippery and can cause soldiers to fall and get injured. Clean up all spillage or leakage of fog oil as soon as possible by washing the area, or absorbing the fog oil with sand or other absorbent material.

**NOTE**

Left and right hoses are replaced the same way.

1. Disconnect fog oil hose assembly (1) from adapter assembly elbow (2).
2. Disconnect fog oil hose assembly (1) from cover assembly quick disconnect coupling (3).



---

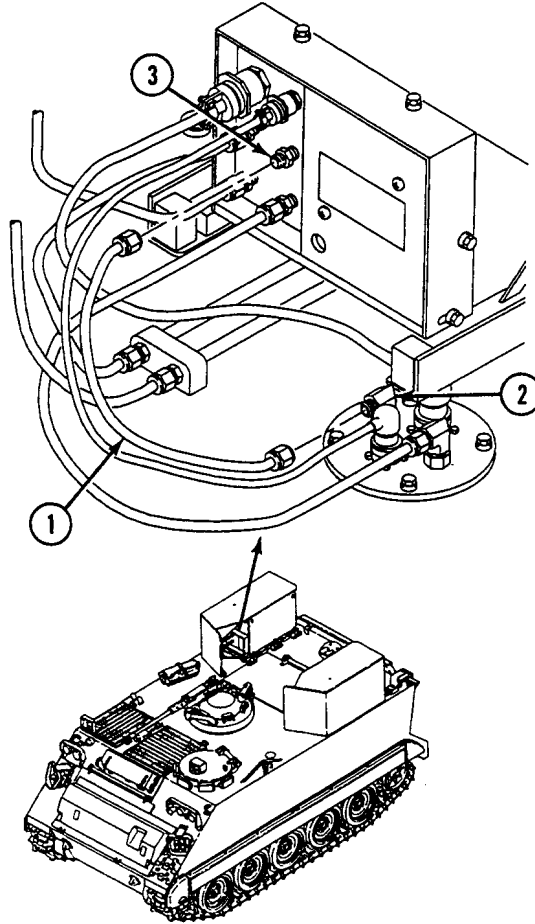
**REPLACE COVER ASSEMBLY FOG OIL QUICK DISCONNECT TO ADAPTER  
ACCESS PLATE HOSE (M1059 ONLY) — Continued**

---

0712 00

**INSTALLATION**

1. Connect fog oil hose assembly (1) to adapter plate elbow (2).
2. Connect fog oil hose assembly (1) to cover assembly quick disconnect coupling (3).

**FOLLOW-THROUGH STEPS**

1. Install smoke generator assembly on bracket (WP 0697 00).
2. Install inboard armor shield (WP 0713 00).
3. Connect battery ground lead (WP 0294 00).
4. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.

**END OF TASK**



---

**REPLACE SMOKE GENERATOR ARMOR (M1059 ONLY)**

---

**0713 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0713 00-2).  
 Installation (page 0713 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Helper (H)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Torque Wrench (WP 0780 00, Item 104)

Suitable Lifting Device

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Decontamination can removed (right side only)  
 (see your -10)

Smoke generator fuel filter/water separator removed  
 (WP 0715 00)

---

Materials/Parts

Locknut (3)

Lockwasher

REMOVAL

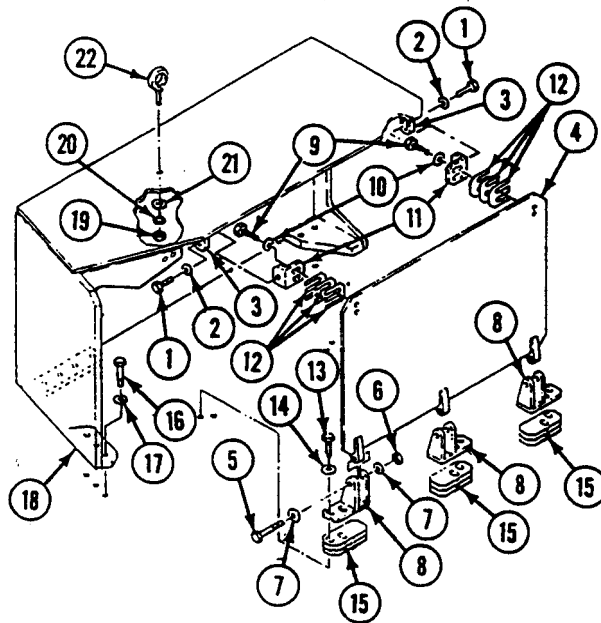
**WARNING**



**Hanging loads, heavy parts, and overhead equipment can fall unexpectedly and kill or injure you.**

**Stay clear of hanging loads, heavy parts, and overhead equipment. Use correct lifting devices. Always have helper guide heavy parts and equipment.**

1. Remove inboard armor shield. Have helper assist.
  - a. Remove two screws (1) and washers (2) from two angle brackets (3) at top of inboard armor shield (4).
  - b. Lower shield (4).
  - c. Remove three screws (5), locknuts (6), six washers (7), and inboard shield from three hinge assemblies (8). Discard locknuts.
  - d. Remove four screws (9) and washers (10) securing two angle brackets (11) and shims (12) to shield (4).
  - e. Remove six screws (13) and flat washers (14) securing three hinges (8) and shims (15) to hull.
2. Remove outboard armor shield. Have helper assist.
  - a. Remove ten screws (16), washers (17), and outboard shield (18) from hull.
  - b. Remove nut (19), lockwasher (20), washer (21), and eyebolt (22) from outboard shield (18). Discard lockwasher.



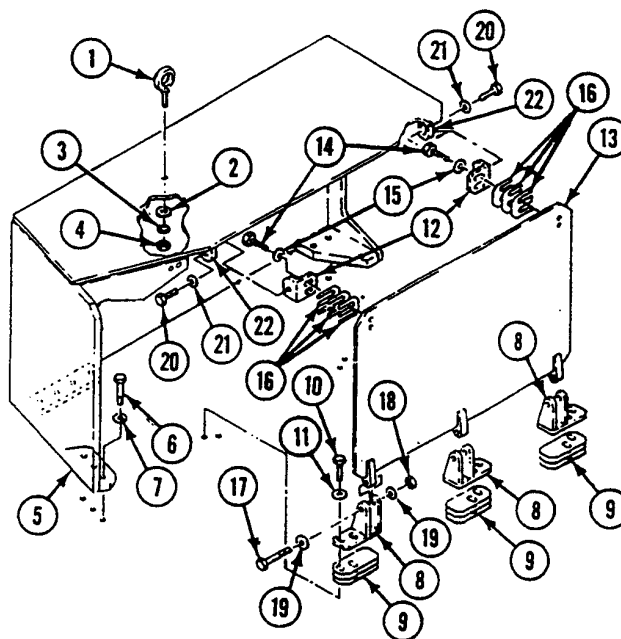
## INSTALLATION

**WARNING**

**Hanging loads, heavy parts, and overhead equipment can fall unexpectedly and kill or injure you.**

**Stay clear of hanging loads, heavy parts, and overhead equipment. Use correct lifting devices. Always have helper guide heavy parts and equipment.**

1. Install outboard armor shield. Have helper assist.
  - a. Install eyebolt (1), washer (2), new lockwasher (3), and nut (4).
  - b. Install outboard shield (5) on hull. Secure with ten screws (6) and washers (7).
2. Install inboard armor shield. Have helper assist.
  - a. Position three hinges (8) and shims (9) on hull and secure with six screws (10) and washers (11). **TIGHTEN SCREWS TO 51-54 LB-FT (68-73 N·M) TORQUE.** Use torque wrench.
  - b. Position two angle brackets (12) on shield (13). Secure with four screws (14) and washers (15). If necessary, add shims (16). **TIGHTEN SCREWS TO 22-24 LB-FT (28-33 N·M) TORQUE.** Use torque wrench.
  - c. Install armor shield (13) in three hinge assemblies (8). Secure with three screws (17), new locknuts (18), and six washers (19).
  - d. Raise armor shield (13). Secure with two screws (20) and washers (21) to angle brackets (22). **TIGHTEN SCREWS TO 54-59 LB-FT (73-80 N·M) TORQUE.** Use torque wrench.





**FOLLOW-THROUGH STEPS**

1. Install decontamination can (right side only) (see your -10).
2. Install smoke generator fuel filter/water separator (WP 0715 00).

**END OF TASK**

---

**REPLACE SMOKE GENERATOR GLOW PLUG CABLE  
ASSEMBLIES (M1059 ONLY)**

---

**0714 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0714 00-1).  
Installation (page 0714 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)  
Carrier blocked (see your -10)  
Circuit breaker CB1 to OFF (TM 3-1040-283-10)  
Battery ground lead disconnected (WP 0294 00)  
Air pressure released from compressor reservoir (TM 3-1040-283-20&P)  
In-board armor shield removed (WP 0713 00)  
Smoke generator assembly removed from bracket (WP 0697 00)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

Locknut (8)  
Lockwasher (7)

Personnel Required

Unit Mechanic  
Helper

---

**REMOVAL**

**WARNING**

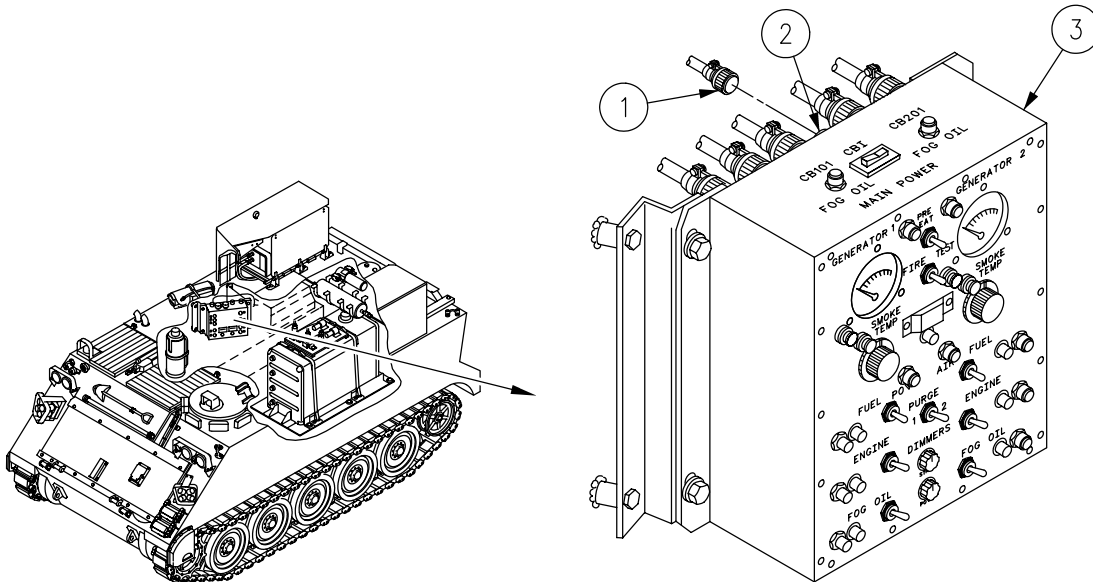


**Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.**

**REPLACE SMOKE GENERATOR GLOW PLUG CABLE ASSEMBLIES  
(M1059 ONLY) — Continued**

0714 00

1. Disconnect interior cable (1) from jack 1J6 (2) on back of control panel (3).



**NOTE**

**There are seven clamps that bolt interior cable to hull. One is used on the right side of carrier and six on the left. All are removed the same way. Only one clamp is shown. Remove as required.**

2. Remove six screws (1), lockwashers (2), clamps (3), and interior cable (4) from left side of hull. Discard lockwashers.

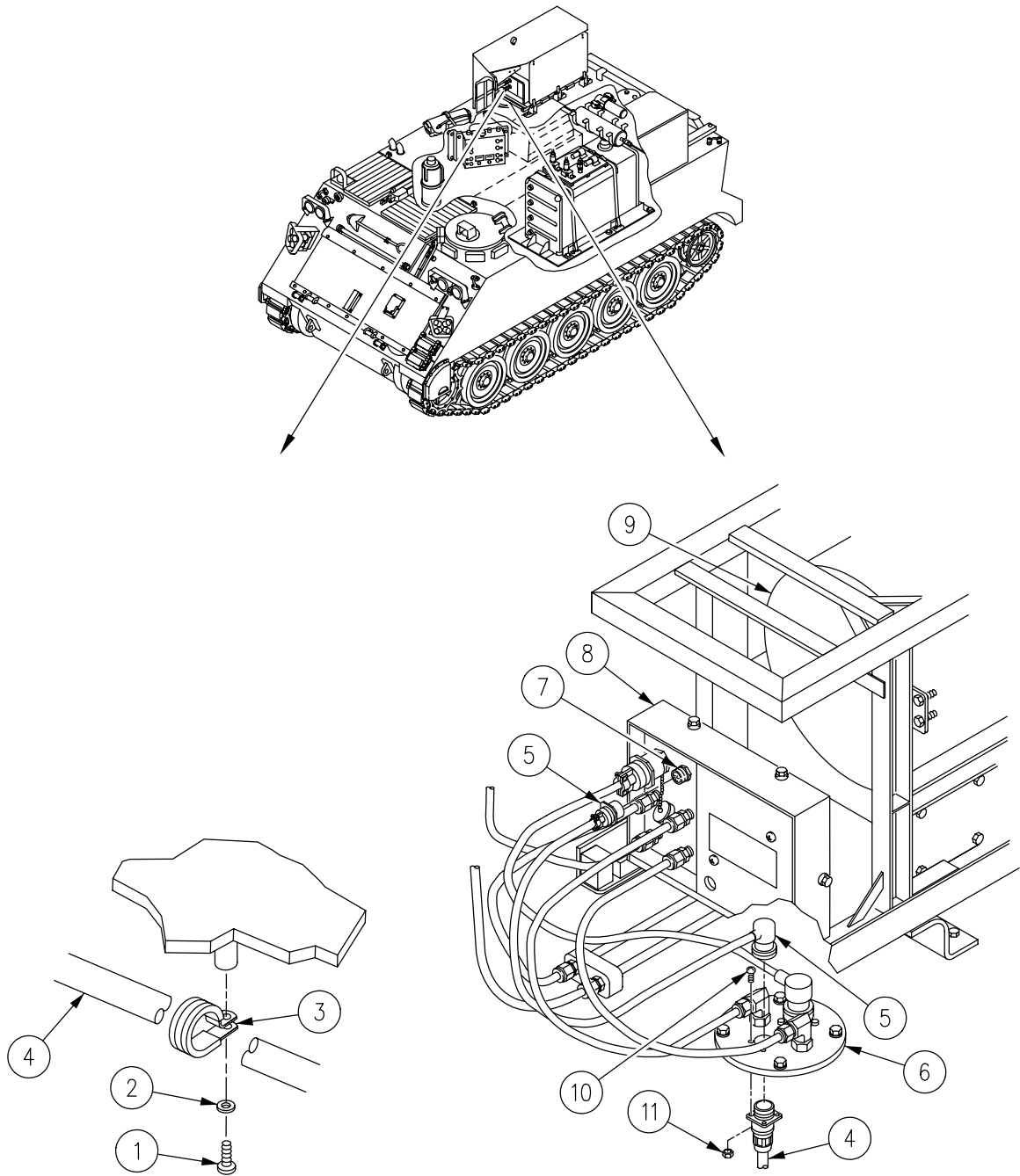
**NOTE**

**There are two exterior cables, access plates, and smoke generators, left and right. Cables are removed from carrier the same way. Only one exterior cable, access plate, and smoke generator is shown. Remove cables as required.**

3. Disconnect exterior cable (5) from interior cable (4) in left access plate (6).
4. Disconnect exterior cable (5) from preheat harness jack (7) on panel (8) of left smoke generator (9).
5. Remove screw (1), lockwasher (2), clamp (3), and interior cable (4) from right side of hull. Discard lockwasher.
6. Disconnect exterior cable (5) from interior cable (4) in right access plate (6).
7. Disconnect exterior cable (5) from preheat harness jack (7) on panel (8) of right smoke generator (9).
8. Remove four screws (10), locknuts (11), and interior cable (4) from right access plate (6). Discard locknuts.
9. Remove four screws (10), locknuts (11), and interior cable (4) from left access plate (6). Discard locknuts.

REPLACE SMOKE GENERATOR GLOW PLUG CABLE ASSEMBLIES  
(M1059 ONLY) — Continued

0714 00



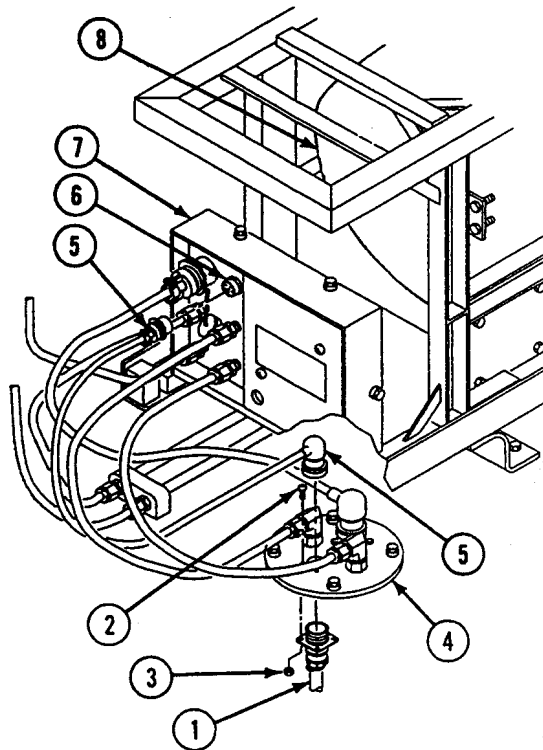
**REPLACE SMOKE GENERATOR GLOW PLUG CABLE ASSEMBLIES  
(M1059 ONLY) — Continued**

0714 00

**INSTALLATION****NOTE**

There are two exterior cables, access plates, and smoke generators, left and right. Cables are installed on carrier the same way. Only one exterior cable, access plate, and smoke generator is shown. Remove cables as required.

1. Install interior cable (1), four screws (2), and new locknuts (3) to right access plate (4).
2. Connect exterior cable (5) to preheat harness jack (6) on panel (7) of right smoke generator (8).
3. Connect exterior cable (5) to interior cable (1) in right access plate (4).
4. Install interior cable (1), four screws (2), and new locknuts (3) to left access plate (4).
5. Connect exterior cable (5) to interior cable (1) in left access plate (4).
6. Connect exterior cable (5) to preheat harness jack (6) on panel (7) of left smoke generator (8).



---

**REPLACE SMOKE GENERATOR GLOW PLUG CABLE ASSEMBLIES**  
**(M1059 ONLY) — Continued**

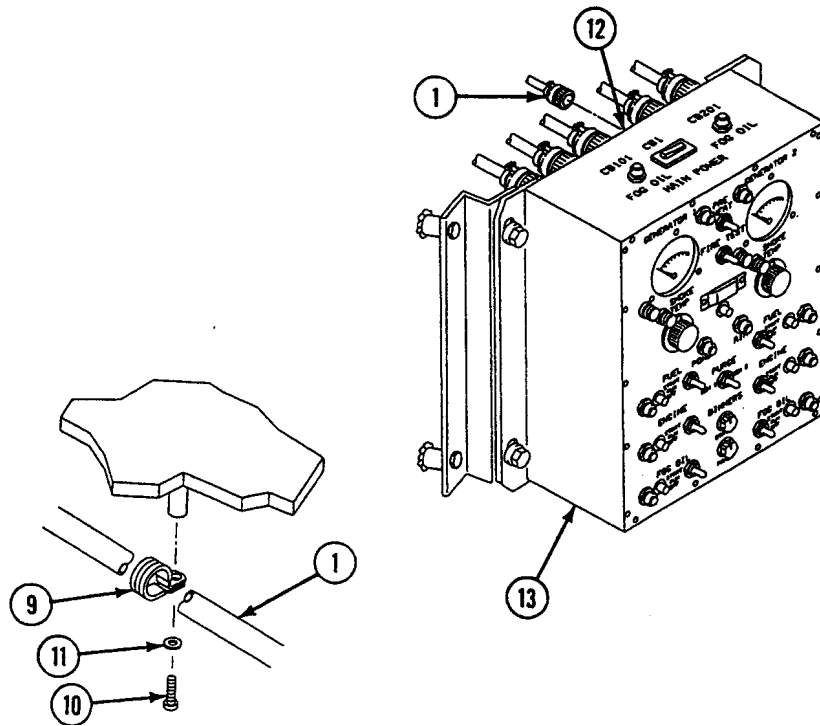

---

0714 00

**NOTE**

**There are seven clamps that bolt interior cable to hull. One is used on the right side of carrier and six on the left. All are installed the same way. Only one clamp is shown. Install as required.**

7. Install interior cable (1), six clamps (9), screws (10), and new lockwashers (11) to hull.
8. Install interior cable (1), clamp (9), screw (10), and new lockwasher (11) to hull.
9. Connect interior cable (1) to jack 1J6 (12) on back of control panel (13).

**FOLLOW-THROUGH STEPS**

1. Install smoke generator assembly on bracket (WP 0697 00).
2. Install in-board armor shield (WP 0713 00).
3. Connect battery ground lead (WP 0294 00).
4. Set circuit breaker CB1 to ON. See TM 3-1040-283-10.

**END OF TASK**



**REPLACE/REPAIR SMOKE GENERATOR FUEL FILTER/WATER SEPARATOR (M1059 ONLY)**

**0715 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0715 00-1).
- Repair (page 0715 00-2).
- Installation (page 0715 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Filter element gasket

Lockwasher (2)

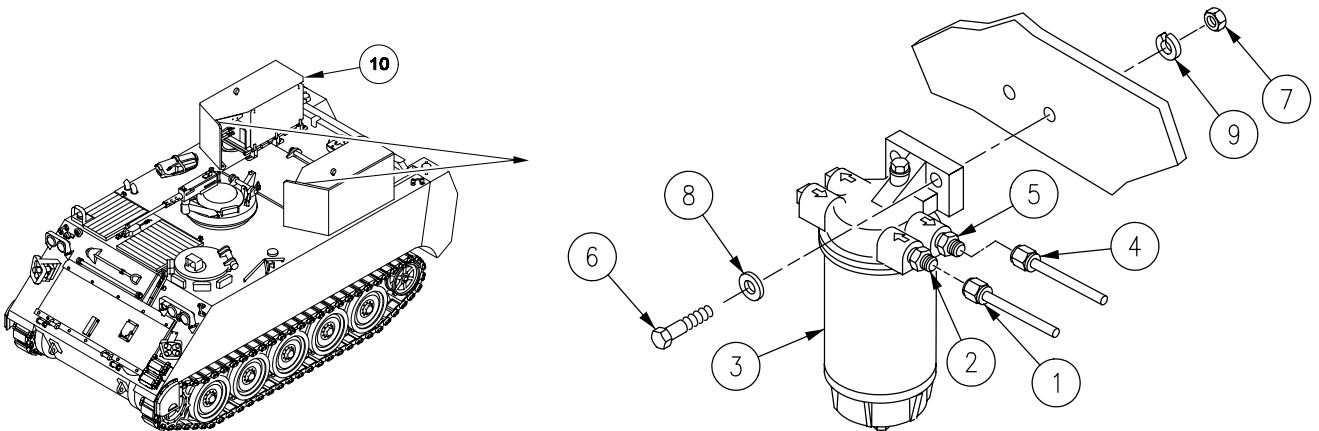
**REMOVAL**

**NOTE**

**There are two fuel filter/water separators. One is located on the left side of the carrier and the other on the right. Both are removed and installed the same way. Only one is shown.**

**Plug fuel hoses after removing to prevent leakage.**

1. Remove fuel hose (1) from inlet tube adapter (2) on fuel filter/water separator (3).
2. Remove fuel hose (4) from outlet tube adapter (5) on fuel filter/water separator (3).
3. Remove two screws (6), nuts (7), washers (8), lockwashers (9), and fuel filter/water separator (3) from armor shield (10). Discard lockwashers.



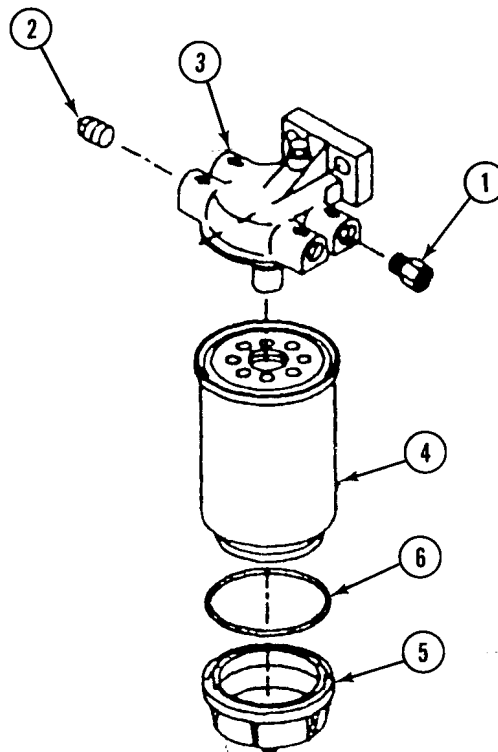


**REPLACE/REPAIR SMOKE GENERATOR FUEL FILTER/WATER SEPARATOR  
(M1059 ONLY) — Continued**

0715 00

**REPAIR**

1. Remove two adapters (1) and plugs (2) from filter head (3).
2. Remove filter head (3) and filter element body (4).
3. Remove sediment bowl (5) from filter element body (4). Discard filter element.
4. Remove gasket (6) from sediment bowl (5). Discard gasket.
5. Coat new gasket (6) with a small amount of fluid from filter head (3). Install gasket (6) on sediment bowl (5).
6. Install sediment bowl (5) on new filter element body (4).
7. Coat threaded part on top of filter element body (4) and install on filter head (3).
8. Install two plugs (2) and adapters (1) on filter head (3).



---

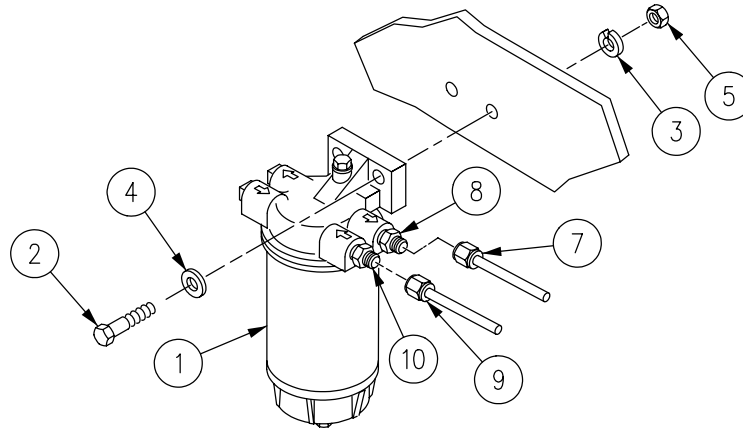
**REPLACE/REPAIR SMOKE GENERATOR FUEL FILTER/WATER SEPARATOR  
(M1059 ONLY) — Continued**

---

0715 00

**INSTALLATION**

1. Install fuel filter/water separator (1), two screws (2), new lockwashers (3), washers (4), and nuts (5) on armor shield.
2. Connect fuel hose (7) to outlet tube adapter (8) on fuel filter/water separator (1).
3. Connect fuel hose (9) to inlet tube adapter (10) on fuel filter/water separator (1).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**



CHAPTER 41

UNIT MAINTENANCE INSTRUCTIONS  
FOR ELECTRICAL/COMMUNICATION EQUIPMENT (M1068 ONLY)

**WORK PACKAGE INDEX**

| <u>Title</u>   | <u>Sequence No.</u> |
|--|---------------------|
| REPLACE CURBSIDE DATA PANEL ASSEMBLY A12 (M1068 ONLY).....                                     | 0716 00             |
| REPLACE EXTERNAL COMMUNICATION BOX A11 LID AND LATCHES (M1068 ONLY).....                       | 0717 00             |
| REPLACE RIGHT EQUIPMENT RACK BRACKETS AND MOUNTS (M1068 ONLY).....                             | 0718 00             |
| REPLACE A.C. POWER EXTENSION BOX A7 (M1068 ONLY).....  | 0719 00             |
| REPLACE AC POWER EXTENSION BOX A19 (M1068 ONLY).....   | 0720 00             |
| REPLACE LAN GROUND BOX ASSEMBLY A15 (M1068 ONLY).....  | 0721 00             |
| REPAIR LAN GROUND BOX ASSEMBLY A15 (M1068 ONLY).....   | 0722 00             |
| REPLACE EXTERNAL COMMUNICATION BOX A11 (M1068 ONLY).....                                       | 0723 00             |
| REPLACE SIGNAL PATCH PANEL BOX A10 (M1068 ONLY).....   | 0724 00             |
| REPLACE APIU RACK MOUNT AND BRACKET (M1068 ONLY).....  | 0725 00             |
| REPLACE AC POWER EXTENSION BOX A18 AND BRACKET (M1068 ONLY).....                               | 0726 00             |
| REPLACE ROADSIDE DATA PANEL ASSEMBLY A13 AND BRACKET (M1068 ONLY).....                         | 0727 00             |
| REPLACE INVERTER HOUSING A2 TERMINAL BLOCKS TB1 AND TB2 (M1068 ONLY).....                      | 0728 00             |
| REPLACE POWER CONTROL ENCLOSURE AC AND DC METERS AND LIGHT<br>INDICATORS (M1068 ONLY).....     | 0729 00             |
| REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET (M1068 ONLY).....                         | 0730 00             |
| REPLACE POWER CONTROL ENCLOSURE ASSEMBLY A1 (M1068 ONLY).....                                  | 0731 00             |
| REPLACE POWER CONTROL ENCLOSURE CIRCUIT 44A LEAD (M1068 ONLY).....                             | 0732 00             |
| REPLACE/REPAIR POWER SUPPLY STORAGE BOX ASSEMBLY (M1068 ONLY).....                             | 0733 00             |
| REPLACE TENT INTERFACE PANEL BOX ASSEMBLY A5 (M1068 ONLY).....                                 | 0734 00             |
| REPLACE AC POWER EXTENSION BOX A6 AND DC POWER EXTENSION BOX A9 AND<br>MOUNT (M1068 ONLY)..... | 0735 00             |
| REPLACE/REPAIR POWER DISTRIBUTION BOX A3 (M1068 ONLY).....                                     | 0736 00             |
| REPLACE POWER ENTRY BOX ASSEMBLY A4 (M1068 ONLY).....  | 0737 00             |
| REPLACE FLUORESCENT LIGHT ASSEMBLIES (M1068 ONLY).....   | 0738 00             |
| REPLACE POWER DISTRIBUTION CABLE (W3) (M1068 ONLY).....  | 0739 00             |
| REPLACE DC BATTERY CABLE (W4) (M1068 ONLY).....  | 0740 00             |
| REPLACE/REPAIR INVERTER AC CABLE (W5) (M1068 ONLY).....  | 0741 00             |
| REPLACE INVERTER DC CABLE (W6) (M1068 ONLY).....   | 0742 00             |
| REPLACE AC POWER EXTENSION CABLE (W7) (M1068 ONLY).....  | 0743 00             |
| REPLACE AC POWER EXTENSION CABLE (W8) (M1068 ONLY).....  | 0744 00             |
| REPLACE CASCADE REMOTE HARNESS (M1068 ONLY).....   | 0745 00             |
| REPLACE DC POWER EXTENSION CABLE (W10) (M1068 ONLY).....                                       | 0746 00             |
| REPLACE AC LIGHT CABLE (W11) (M1068 ONLY).....   | 0747 00             |
| REPLACE GROUND STRAP (W12) (M1068 ONLY).....   | 0748 00             |
| REPLACE HARNESS W32 (M1068 ONLY).....  | 0749 00             |

CHAPTER 41

UNIT MAINTENANCE INSTRUCTIONS  
FOR ELECTRICAL/COMMUNICATION EQUIPMENT (M1068 ONLY)

---

**WORK PACKAGE INDEX (Continued)**

---

| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| REPLACE CABLE W35, CABLE W28, AND CABLE ADAPTER (M1068 ONLY)..... | 0750 00             |
| REPLACE CABLE W38, CABLE W29, AND CABLE ADAPTER (M1068 ONLY)..... | 0751 00             |
| REPLACE SINGLE POINT LAN CABLE (W40) (M1068 ONLY).....            | 0752 00             |
| REPLACE CABLES W42, W43, AND W251 (M1068 ONLY).....               | 0753 00             |
| REPLACE CABLE W45 (M1068 ONLY).....                               | 0754 00             |
| REPLACE AC CABLE ASSEMBLY (W252) (M1068 ONLY).....                | 0755 00             |
| REPLACE LAN A OR B CABLE (W103/W104) (M1068 ONLY).....            | 0756 00             |
| REPLACE CABLE W124 (M1068 ONLY).....                              | 0757 00             |
| REPLACE CABLE W126 (M1068 ONLY).....                              | 0758 00             |
| REPAIR CABLE ASSEMBLY (W4/W6) (M1068 ONLY).....                   | 0759 00             |

**REPLACE CURBSIDE DATA PANEL ASSEMBLY A12 (M1068 ONLY)**

**0716 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0716 00-1).  
 Installation (page 0716 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Signal Support System Specialist 31U10

Tools and Special Tools

Radio Equipment Tool Kit (WP 0780 00, Item 81)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Materials/Parts

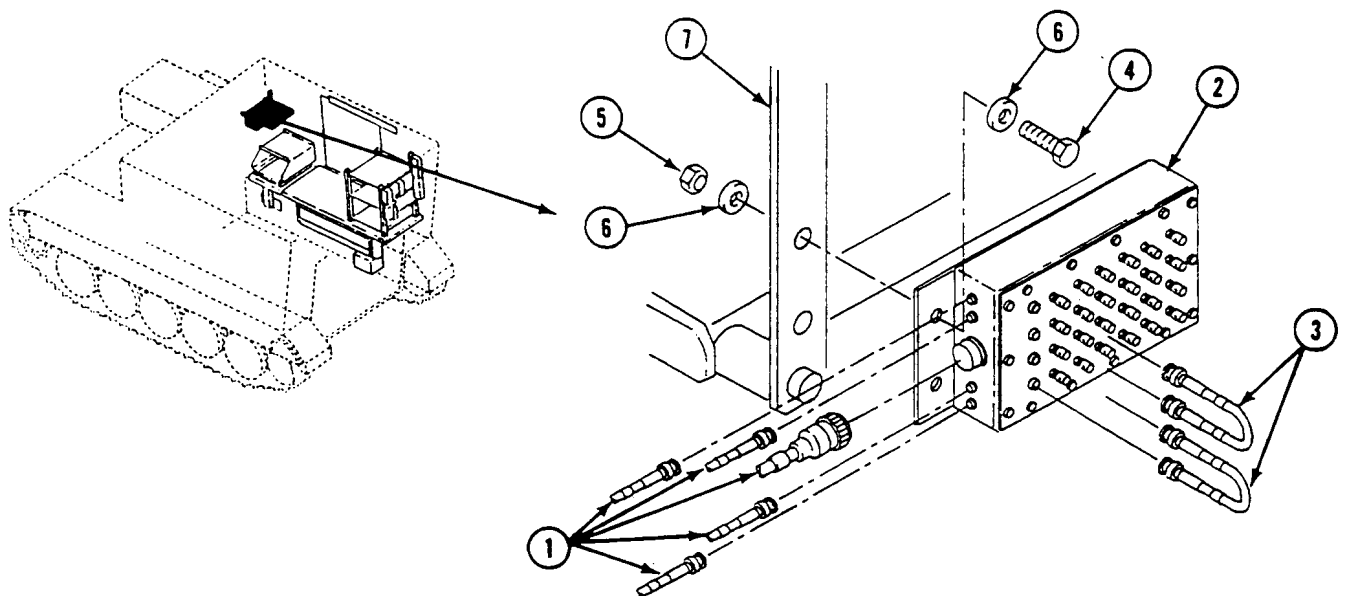
Locknut (2)

**REMOVAL**

**NOTE**

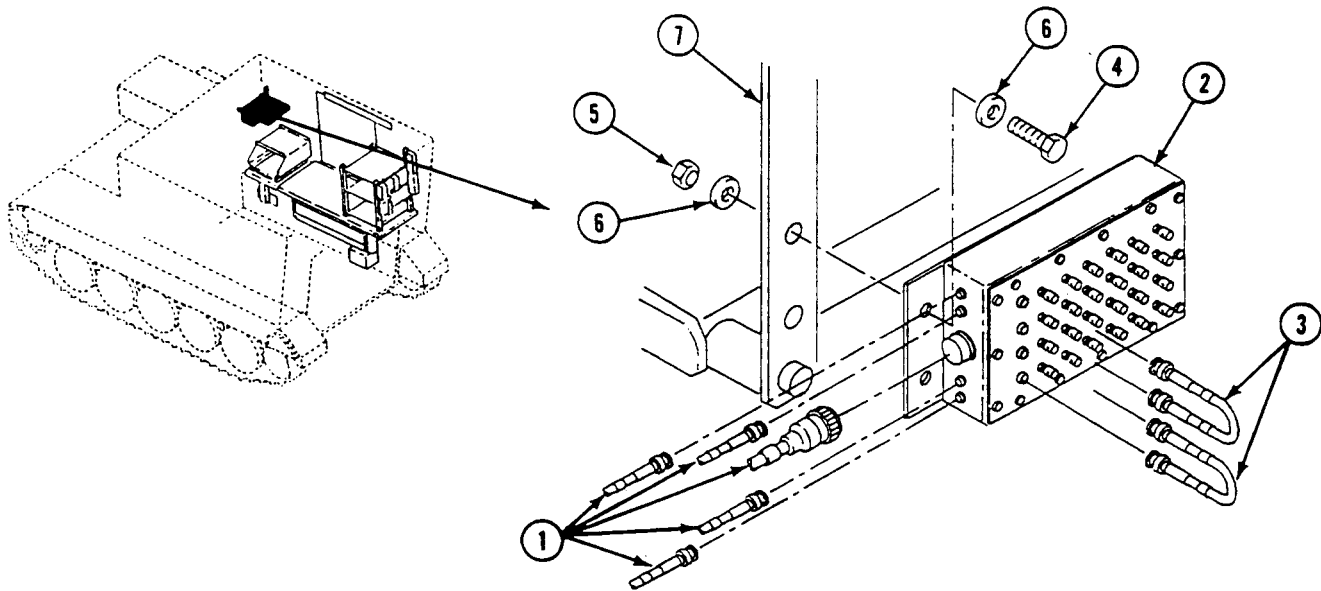
**Tag all cables for reassembly.**

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 EXTERNAL COMMUNICATION BOX A11 LID AND LATCHES (M1068 ONLY)**

0717 00

**THIS WORK PACKAGE COVERS:**

Removal (page 0717 00-1).  
 Installation (page 0717 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

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

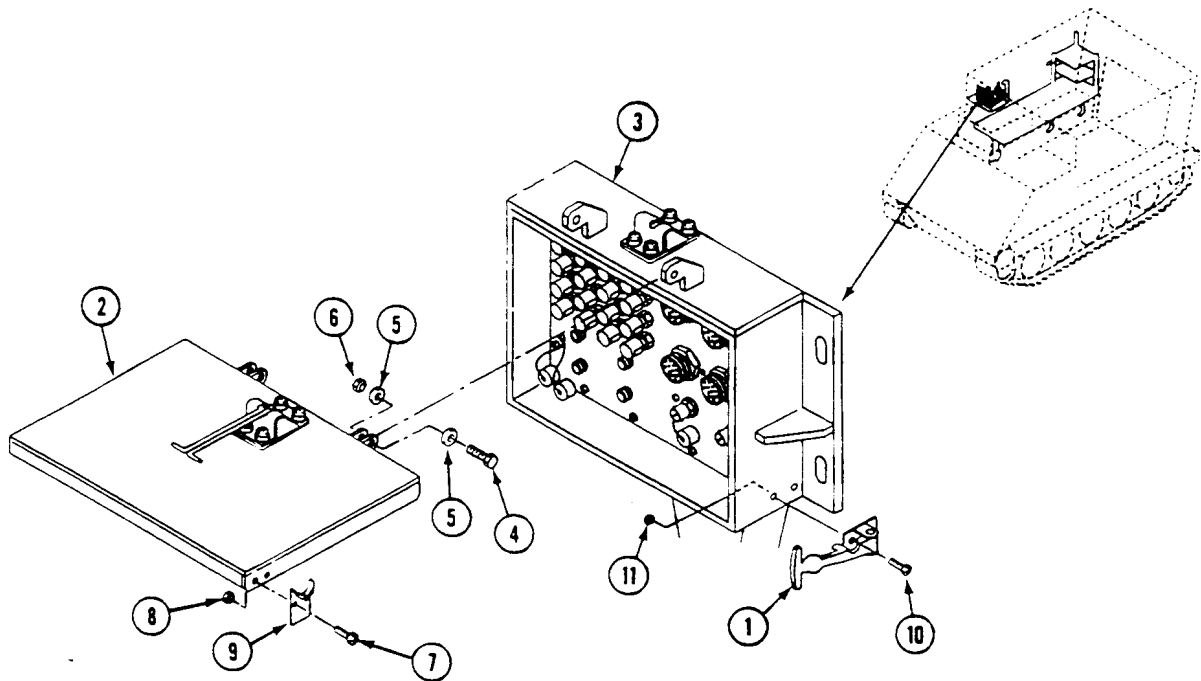
Materials/Parts

Locknut (2)

Locknut (8)

**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.



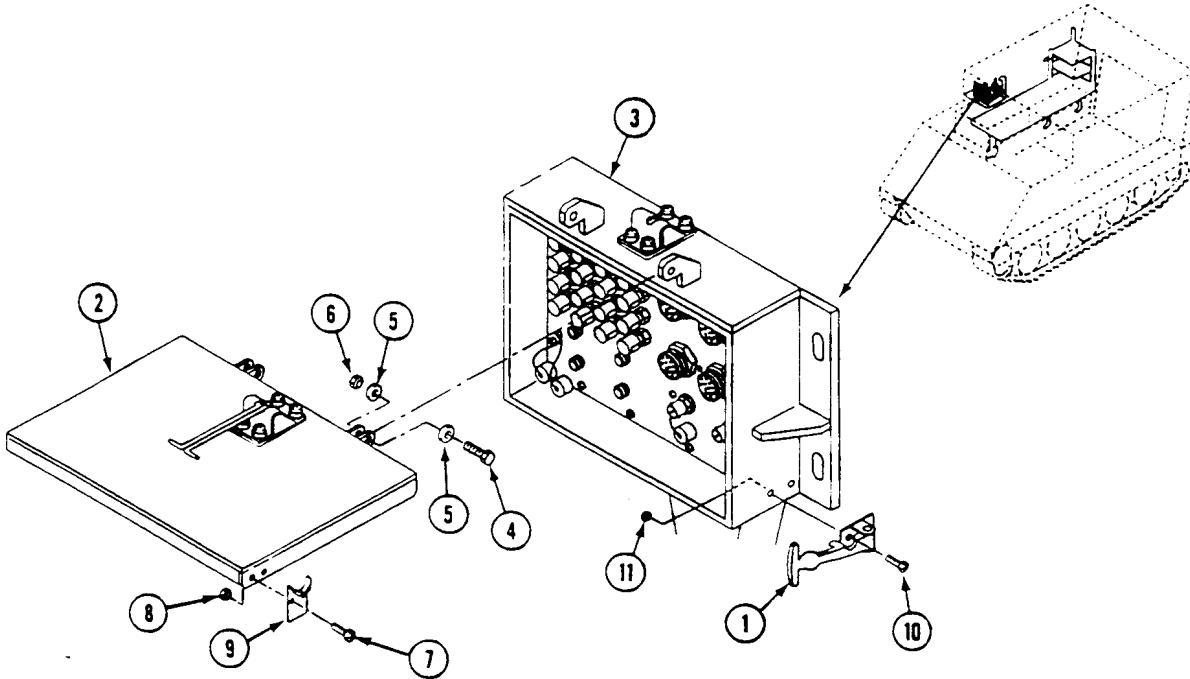


**REPLACE EXTERNAL COMMUNICATION BOX A11 LID AND LATCHES  
(M1068 ONLY) — Continued**

0717 00

**INSTALLATION**

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

**END OF TASK**

**REPLACE RIGHT EQUIPMENT RACK BRACKETS AND MOUNTS (M1068 ONLY)**

**0718 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0718 00-1).  
 Installation (page 0718 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

A.C. power extension box A7 removed (WP 0719 00)

LAN ground box assembly A15 removed (WP 0721 00)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

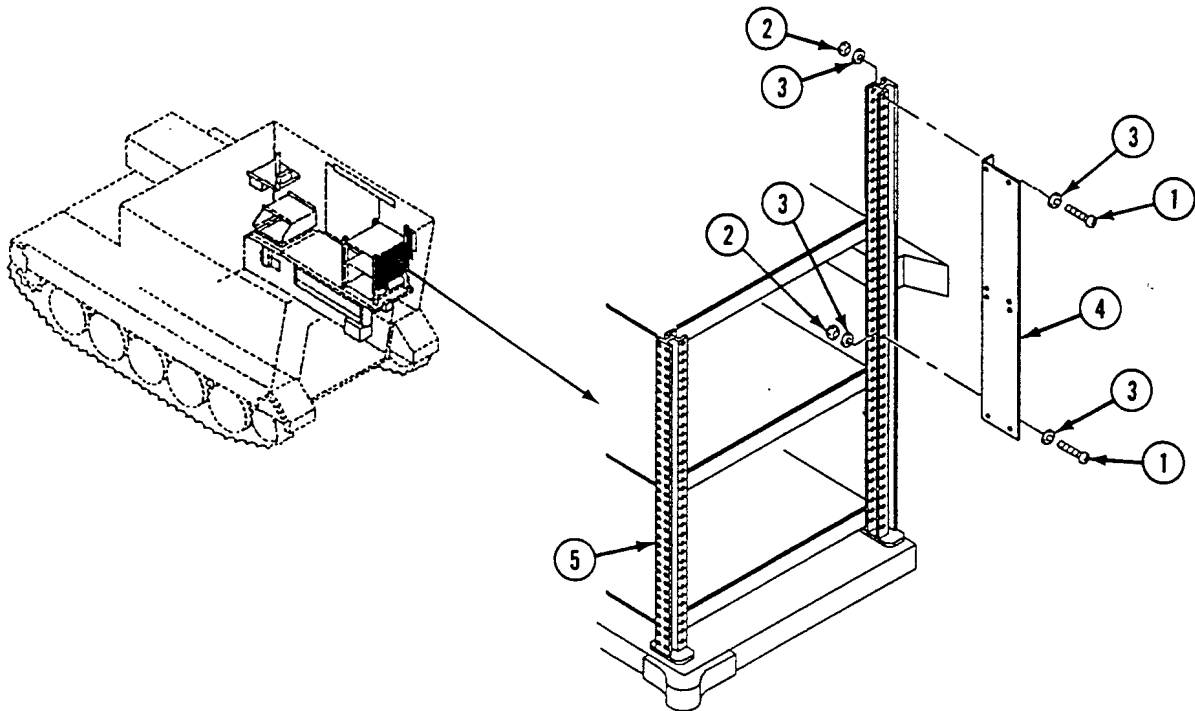
Locknut (3)

Personnel Required

Unit Mechanic

**REMOVAL**

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

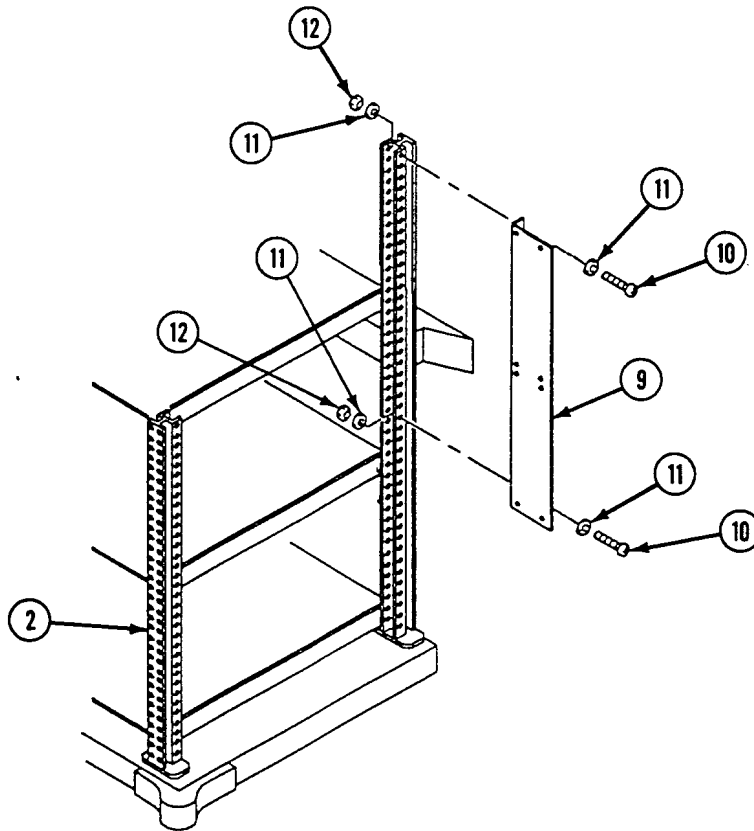


**REPLACE RIGHT EQUIPMENT RACK BRACKETS AND MOUNTS  
(M1068 ONLY) — Continued**

0718 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 0721 00).
2. Install A.C. power extension box A7 (WP 0719 00).

**END OF TASK**

**REPLACE AC POWER EXTENSION BOX A7 (M1068 ONLY)**

**0719 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0719 00-1).  
 Installation (page 0719 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

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 0294 00)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

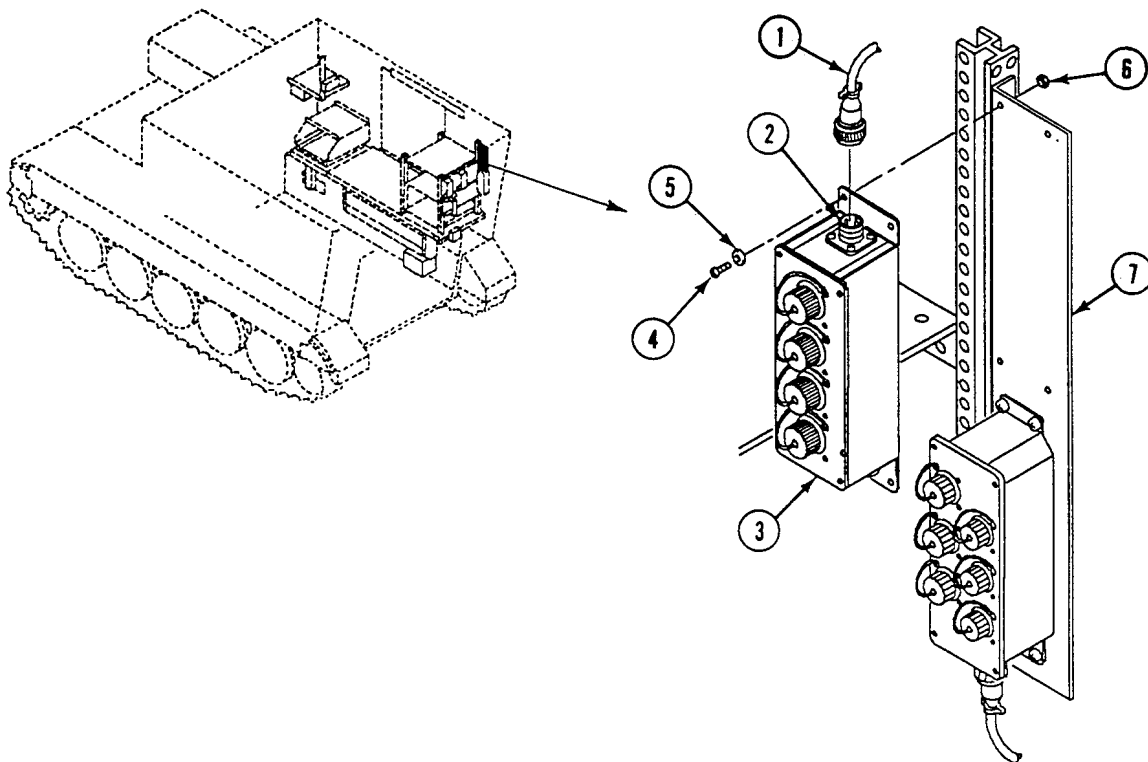
Locknut (4)

Personnel Required

Power-Generation Equipment Repairer 52D10

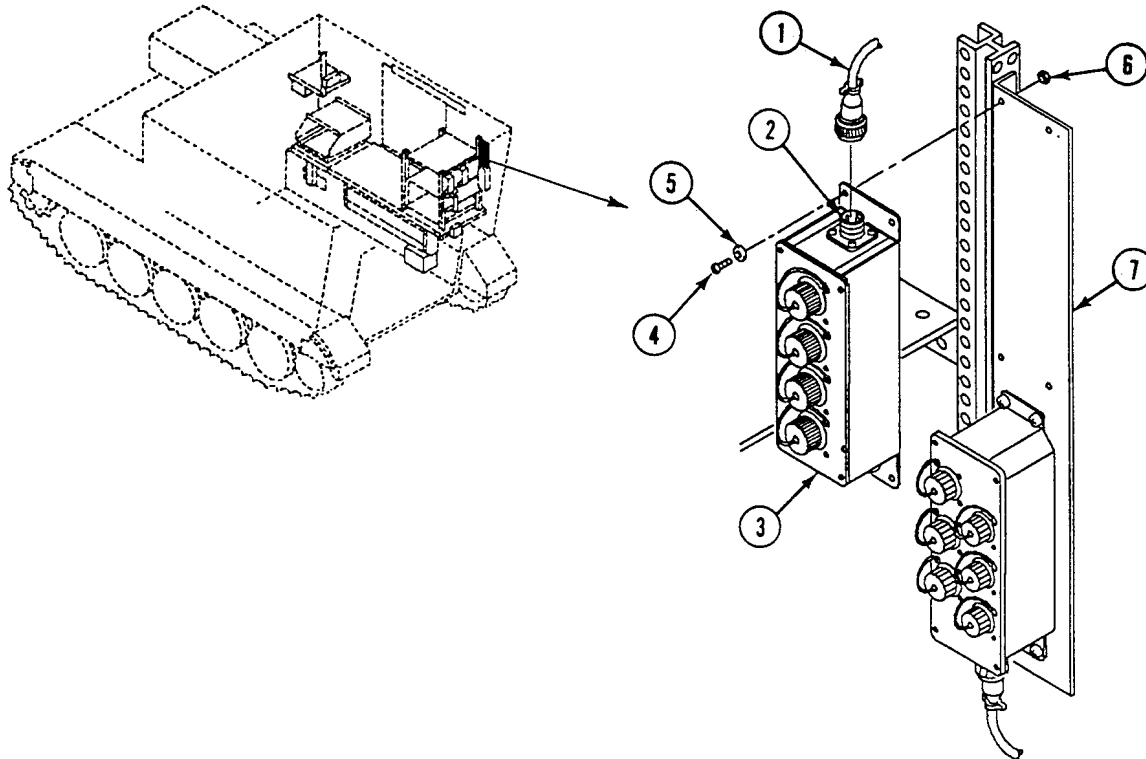
**REMOVAL**

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



**INSTALLATION**

1. Install AC 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 AC power extension box A7 (3).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Turn MASTER SWITCH to ON (see your -10). Check that electrical system works properly. See TM 11-7010-256-12&P.
3. Turn MASTER SWITCH to OFF (see your -10).

**END OF TASK**

**REPLACE AC POWER EXTENSION BOX A19 (M1068 ONLY)**

**0720 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0720 00-1).  
 Installation (page 0720 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

Locknut (4)

Personnel Required

Power-Generation Equipment Repairer 52D10

Equipment Condition

Engine stopped (see your -10)

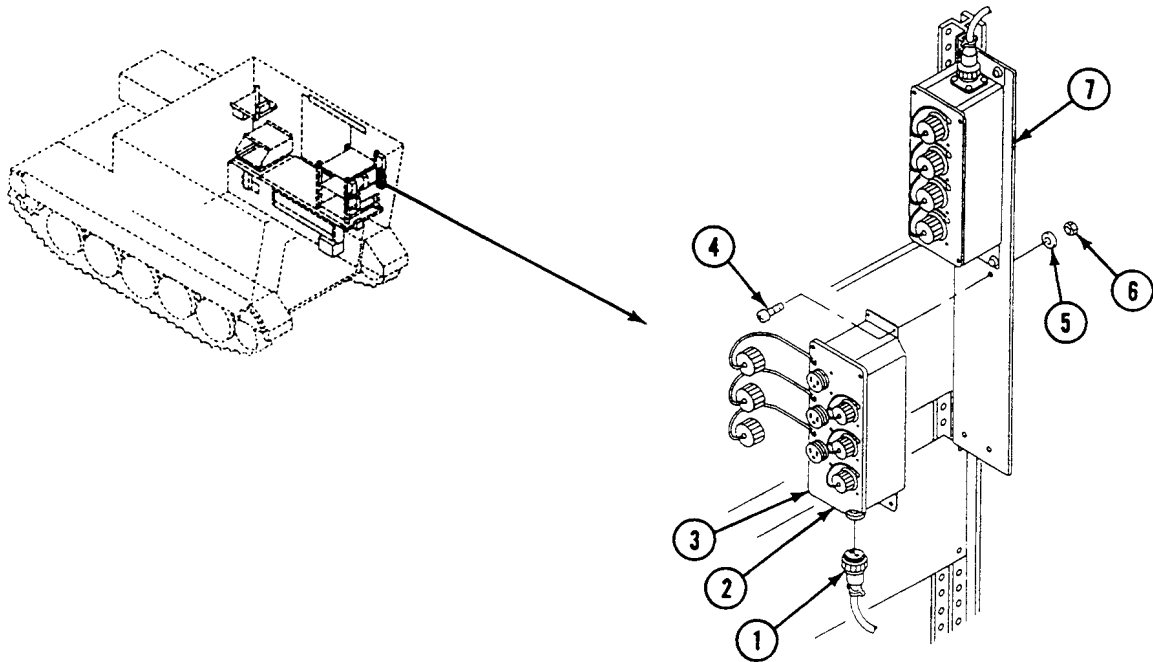
Carrier blocked (see your -10)

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

Battery ground lead disconnected (WP 0294 00)

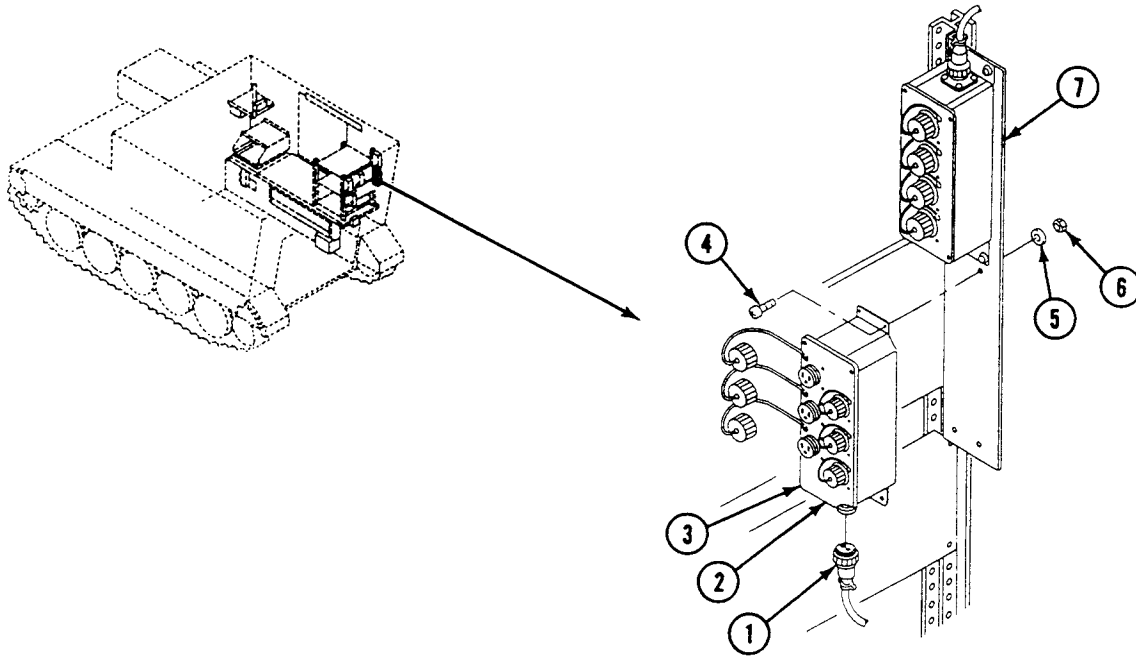
**REMOVAL**

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 0294 00).

**END OF TASK**

**REPLACE LAN GROUND BOX ASSEMBLY A15 (M1068 ONLY)**

**0721 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0721 00-1).
- Installation (page 0721 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

Radio Equipment Tool Kit (WP 0780 00, Item 81)

Personnel Required

Signal Support System Specialist 31U10

Equipment Condition

Engine stopped (see your -10)

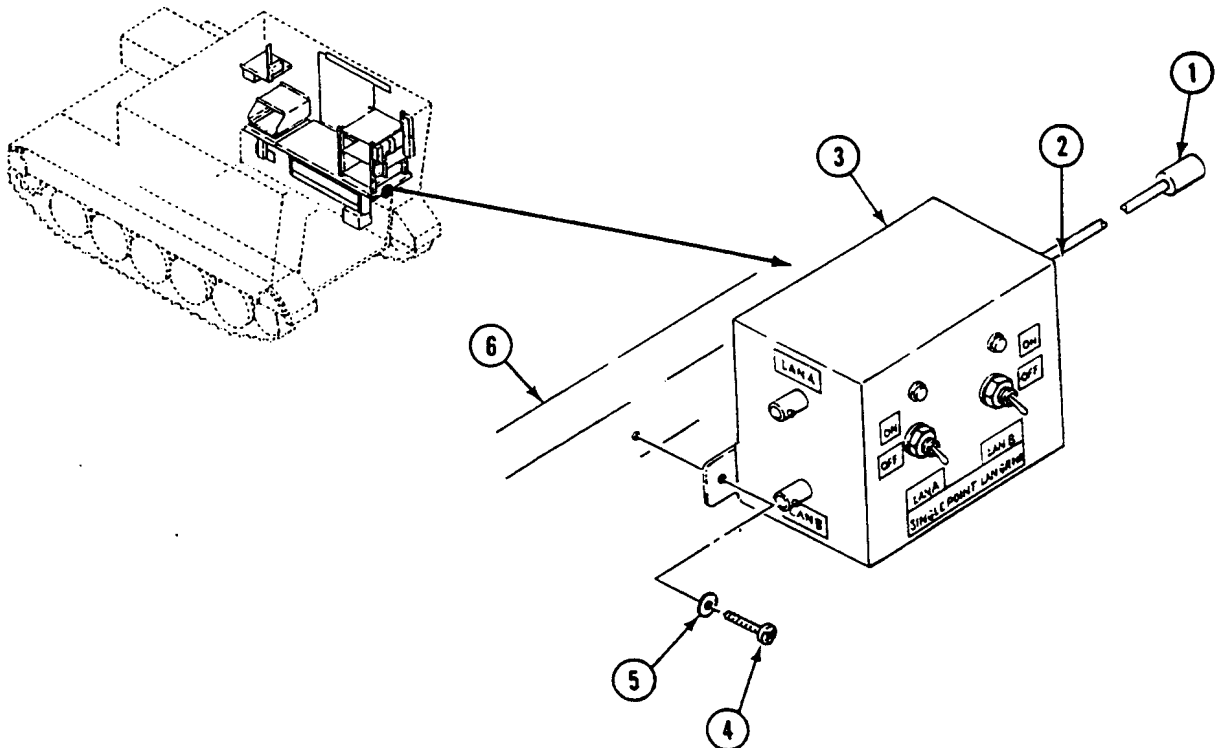
Carrier blocked (see your -10)

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

Battery ground lead disconnected (WP 0294 00)

**REMOVAL**

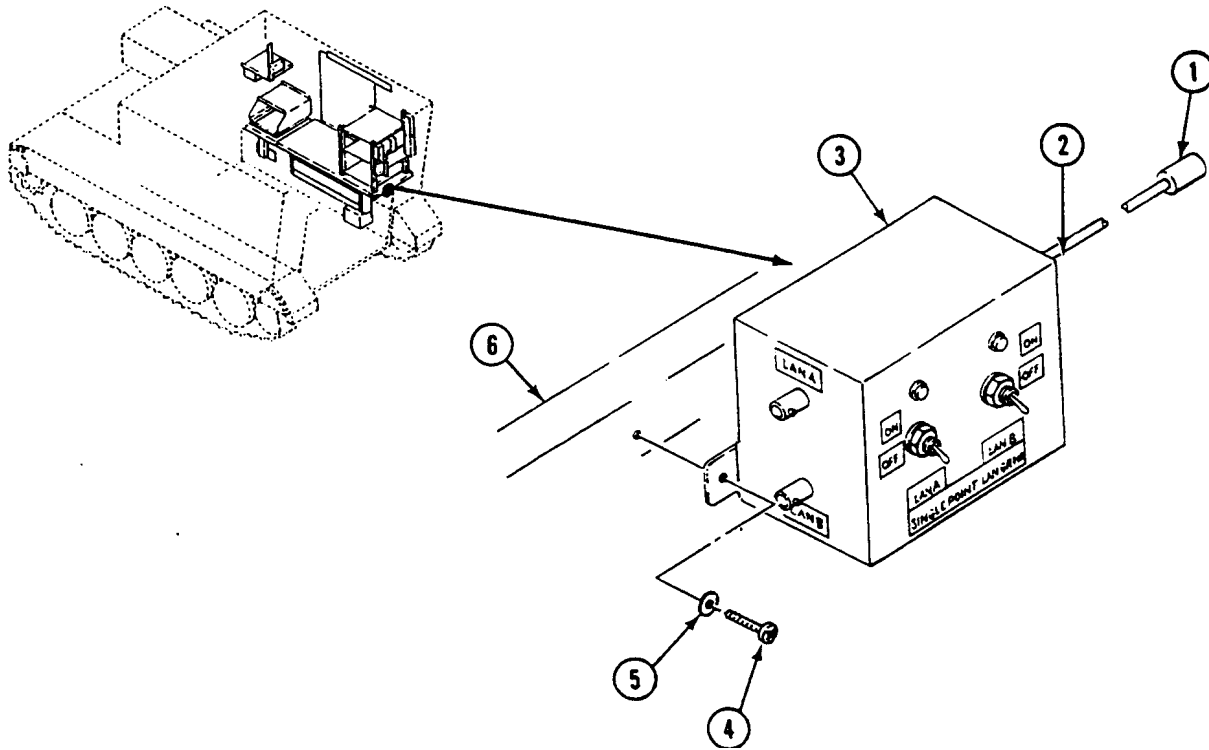
1. Disconnect cable W40 (1) from connector J1 (2) on LAN ground box (3).
2. Remove two screws (4), washers (5), and LAN ground box (3) from work station rack base (6).





**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 0294 00).

**END OF TASK**

**REPAIR LAN GROUND BOX ASSEMBLY A15 (M1068 ONLY)**

**0722 00**

**THIS WORK PACKAGE COVERS:**

Disassembly (page 0722 00-1).  
 Assembly (page 0722 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Signal Support System Specialist 31U10

Tools and Special Tools

Radio Equipment Tool Kit (WP 0780 00, Item 81)

Equipment Condition

LAN ground box assembly A15 removed (WP 0721 00)

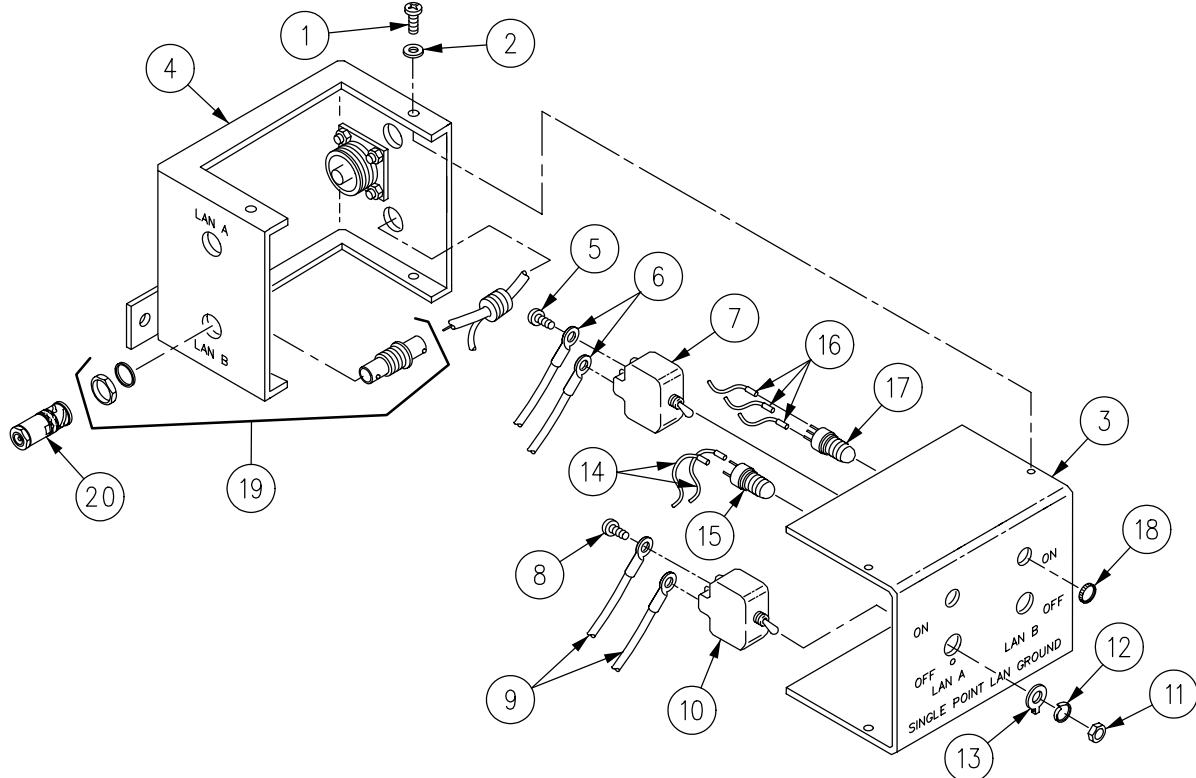
**DISASSEMBLY**

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) and (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) and (17) from box (3).
8. Remove any of four adapters (19) and connectors (20) from box mount (4), but only if necessary.

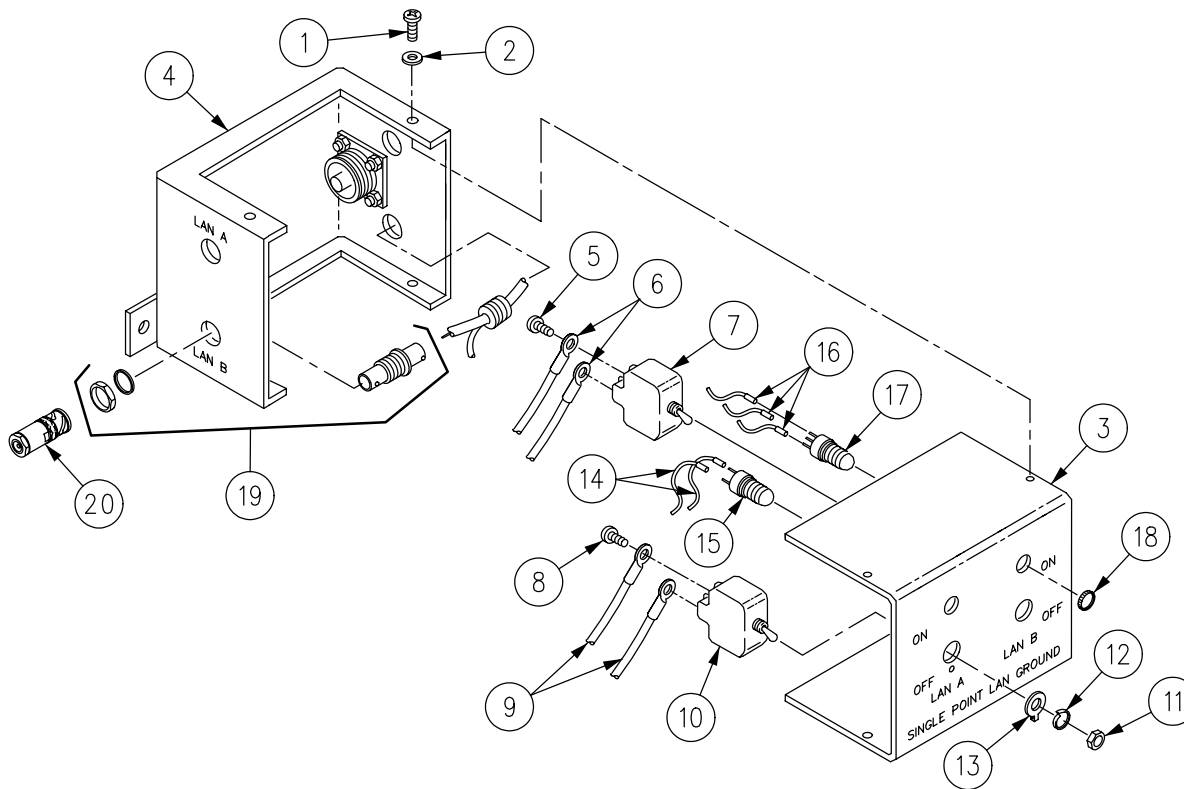


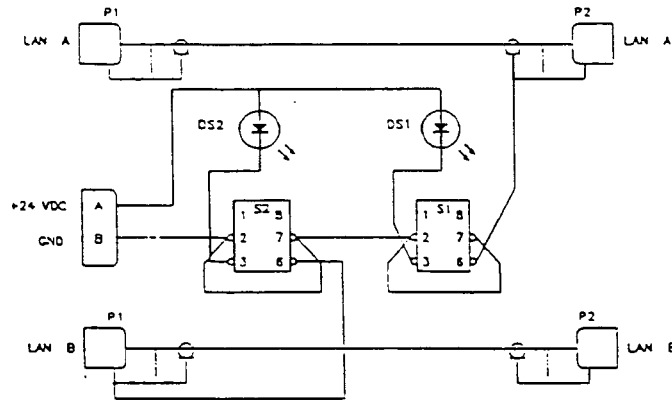
ASSEMBLY

NOTE

Use wiring diagram, page 0722 00-3.

1. If any of four connectors (20) and adapters (19) were removed from box mount (4), install as necessary.
2. Install two lights (15) and (17) and nuts (18) on box (3).
3. Connect three leads (16) to light DS2 (17).
4. Connect two leads (14) to light DS1 (15).
5. Install two switches (7) and (10), two lockrings (13), lockwashers (12), and jamnuts (11) on box (3).
6. Install four leads (9) and screws (8) on switch S1 (10).
7. Install five leads (6) and four screws (5) on switch S2 (7).
8. Install box (3), four washers (2), and screws (1) on box mount (4).





WIRING DIAGRAM

**FOLLOW-THROUGH STEPS**

1. Install LAN ground box assembly A15 (WP 0721 00).

**END OF TASK**



---

**REPLACE EXTERNAL COMMUNICATION BOX A11 (M1068 ONLY)**

---

**0723 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0723 00-1).  
 Installation (page 0723 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

Radio Equipment Tool Kit (WP 0780 00, Item 81)

Materials/Parts

Tie strap (3)

Personnel Required

Signal Support System Specialist 31U10  
 Helper (H)

---

Equipment Condition

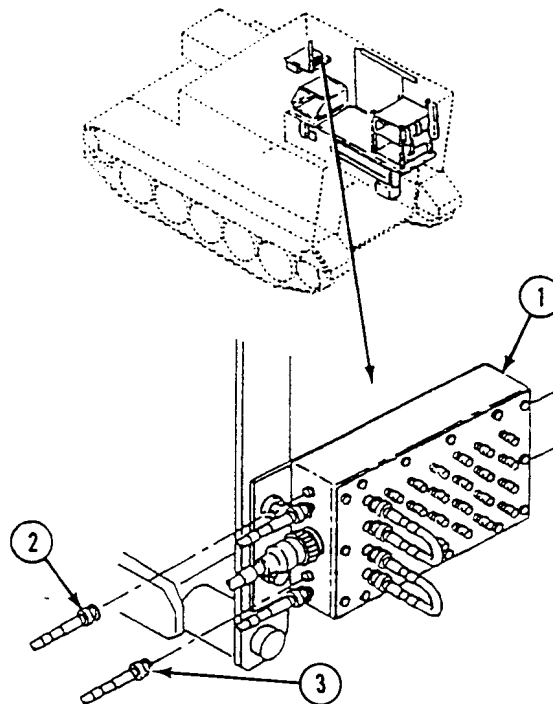
Engine stopped (see your -10)  
 Carrier blocked (see your -10)  
 All external power disconnected (TM 11-7010-256-12&P)  
 Battery ground lead disconnected (WP 0294 00)

**REMOVAL**

**NOTE**

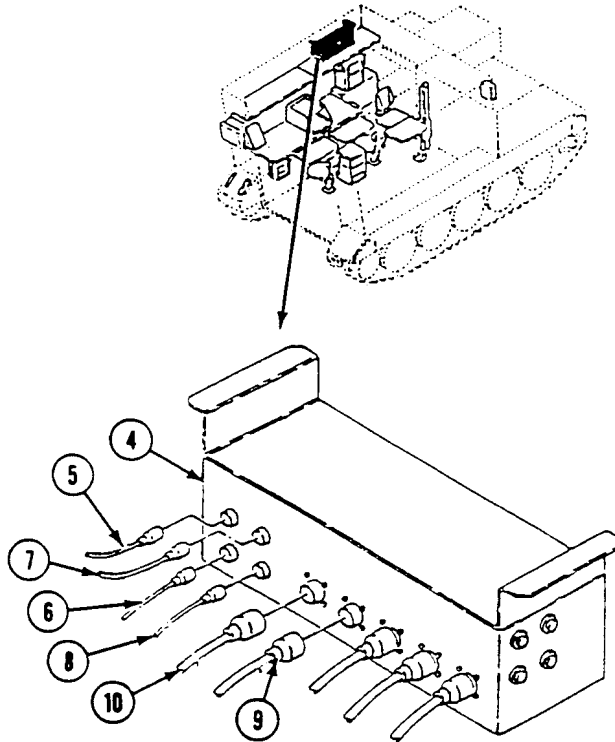
**Tag all cables for identification before removing them. Replace pads only if damaged.**

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



**REPLACE EXTERNAL COMMUNICATION BOX A11 (M1068 ONLY) — Continued****0723 00**

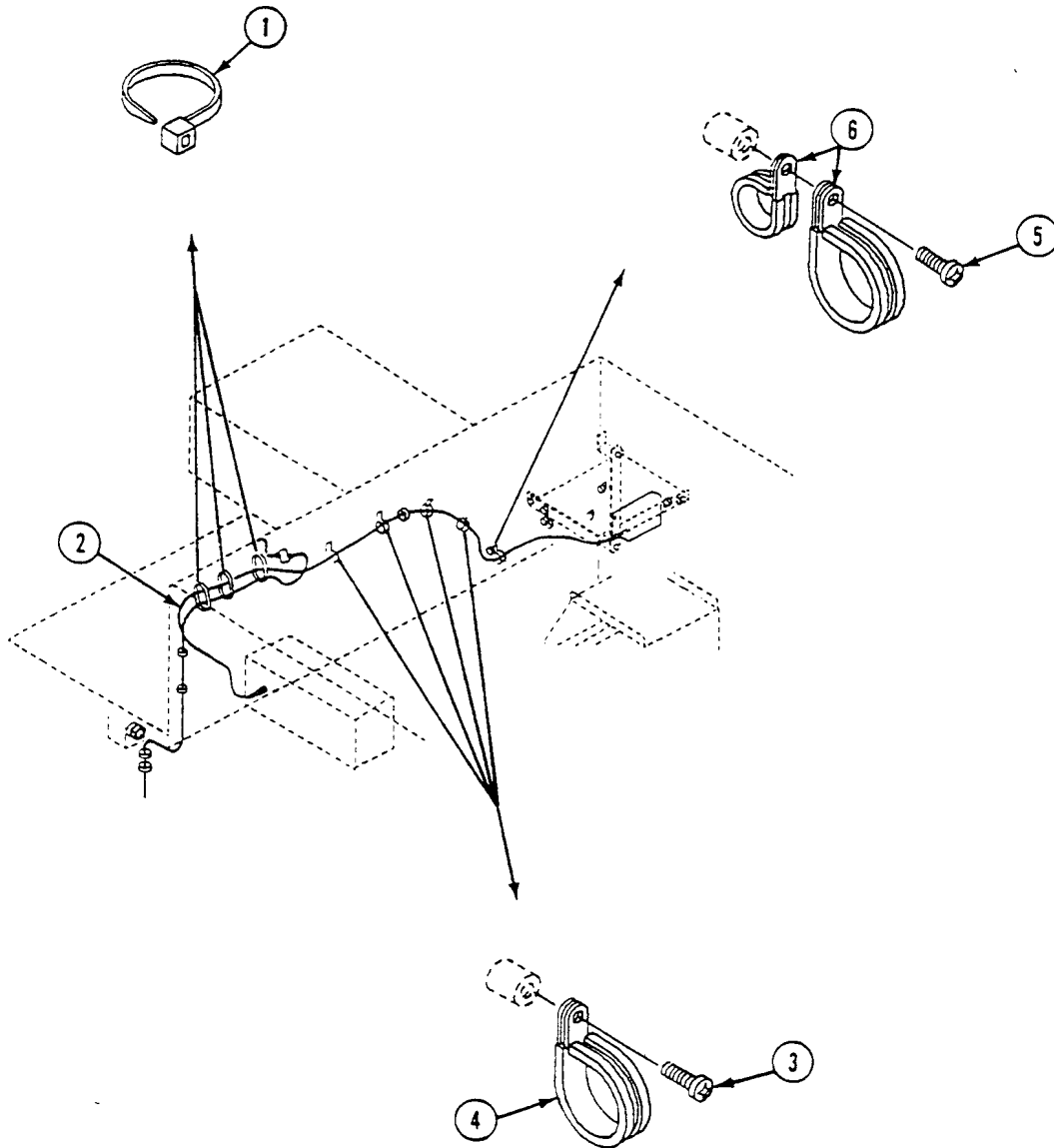
2. Disconnect cable W111 (5) from J125, cable W112 (6) from J123, cable W113 (7) from J126, cable W114 (8) from J124, cable W115 (9) from J136, and cable W118 (10) from J135 and from signal patch panel box A10 (4).



REPLACE EXTERNAL COMMUNICATION BOX A11 (M1068 ONLY) — Continued

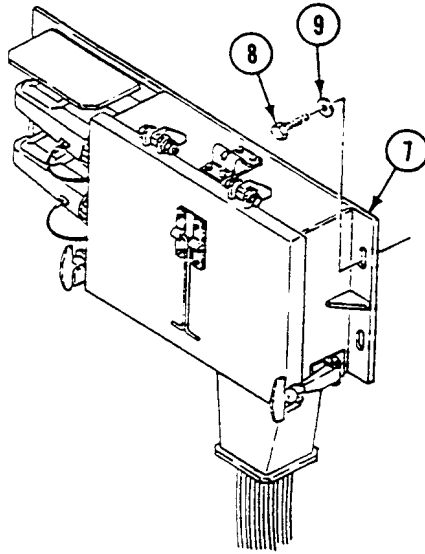
0723 00

3. Remove three tie straps (1) from cable bundle (2). Discard tie 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.



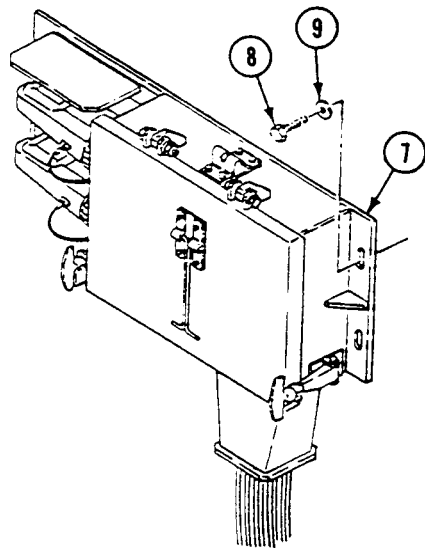


6. Have helper hold external communication box A11 (7) in place. Remove four screws (8) and washers (9) holding box to front bulkhead.
7. Remove external communication box A11 (7). Have helper guide cables through hull opening.

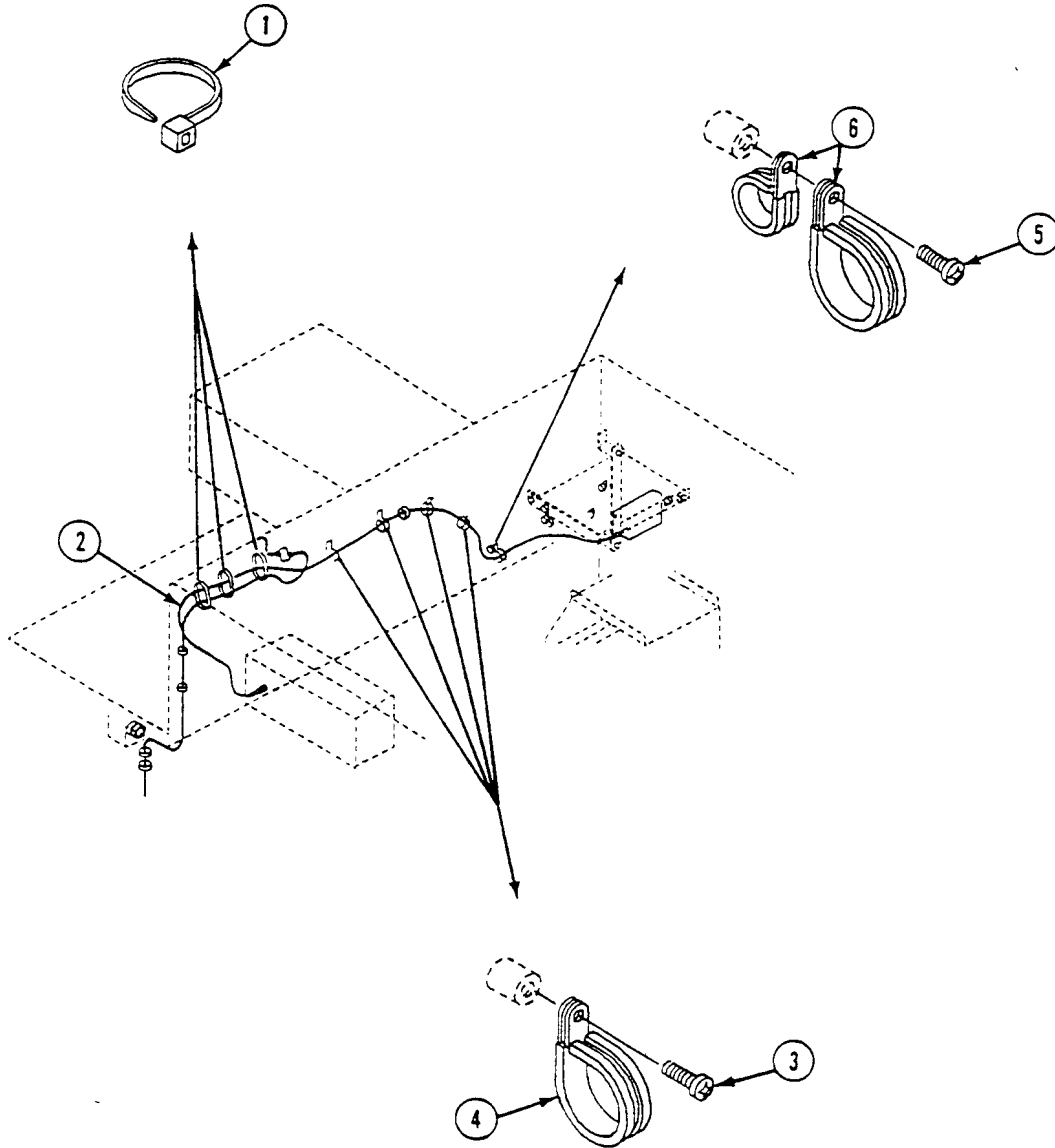


### INSTALLATION

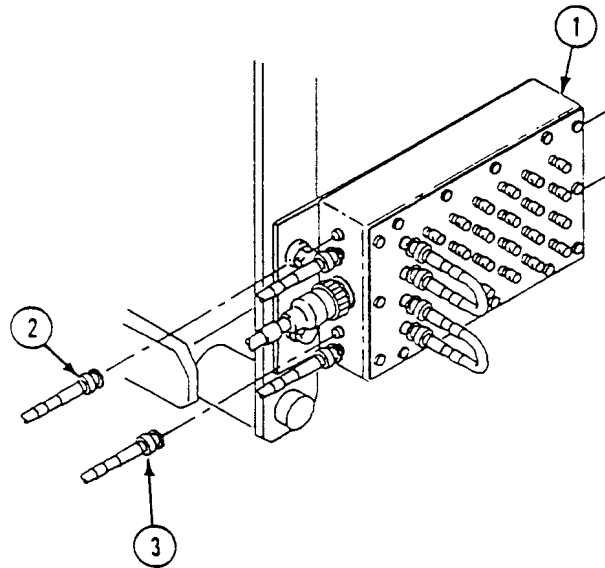
1. Position external communication box A11 (7) on front bulkhead. Have helper guide cables through hull opening.
2. Have helper hold external communication box A11 (7) in place. Secure box to front bulkhead with four screws (8) and washers (9).



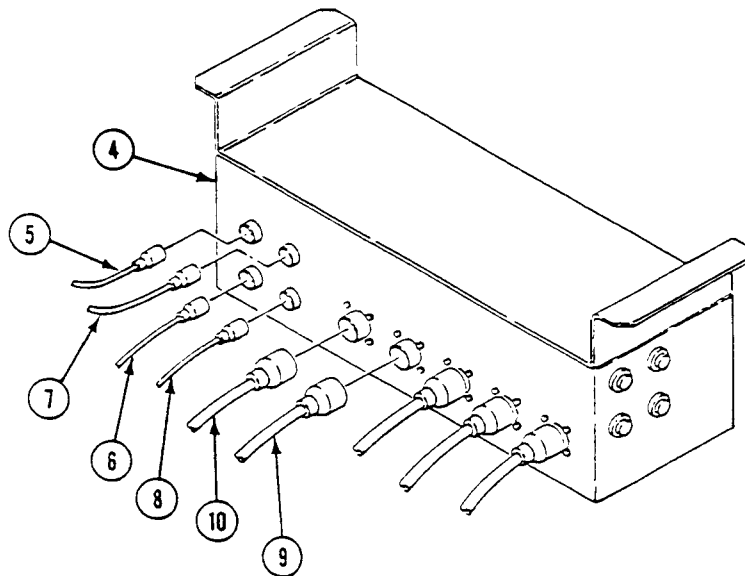
3. Route cable bundle (2) in carrier. Secure with three new tie straps (1).
4. Secure cable bundle (2) to carrier.
  - a. Use four clamps (4) and screws (3).
  - b. Use clamps (6) and screw (5).



5. Connect cable W101 (2) from J1 and cable W102 (3) from J4 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 0294 00).
2. Turn MASTER SWITCH to ON (see your -10). Check that electrical system works properly. See TM 11-7010-256-12&P.
3. Turn MASTER SWITCH to OFF (see your -10).

**END OF TASK**

**REPLACE SIGNAL PATCH PANEL BOX A10 (M1068 ONLY)**

**0724 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0724 00-1).  
 Installation (page 0724 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

Radio Equipment Tool Kit (WP 0780 00, Item 81)

Materials/Parts

Lockwasher (4)

Personnel Required

Signal Support System Specialist 31U10

Equipment Condition

Engine stopped (see your -10)

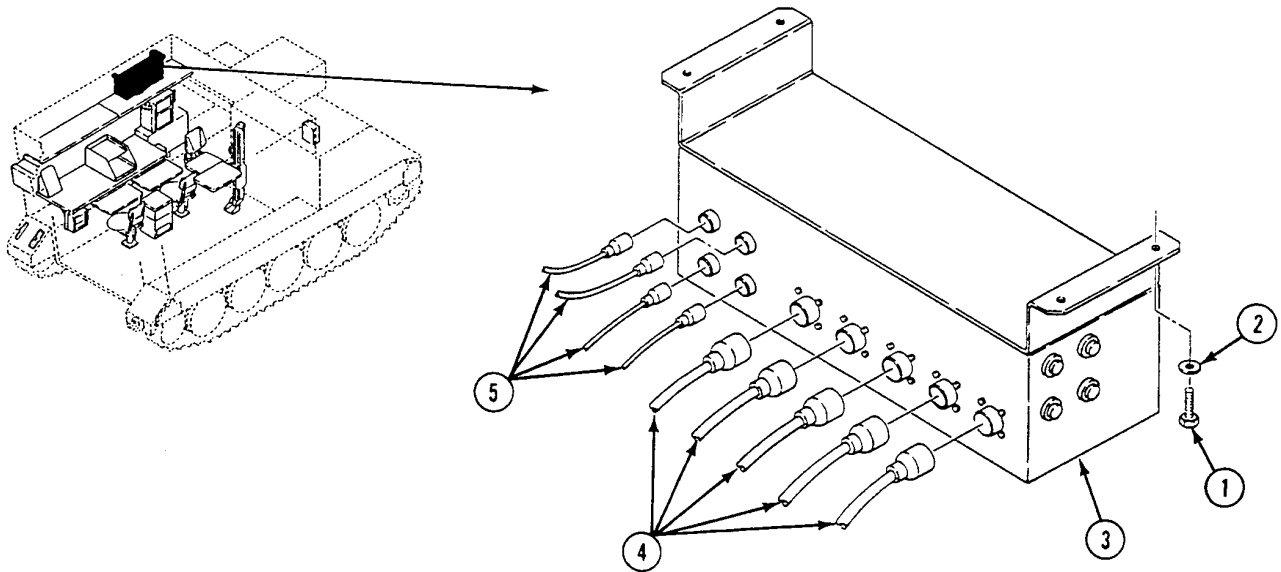
Carrier blocked (see your -10)

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

Battery ground lead disconnected (WP 0294 00)

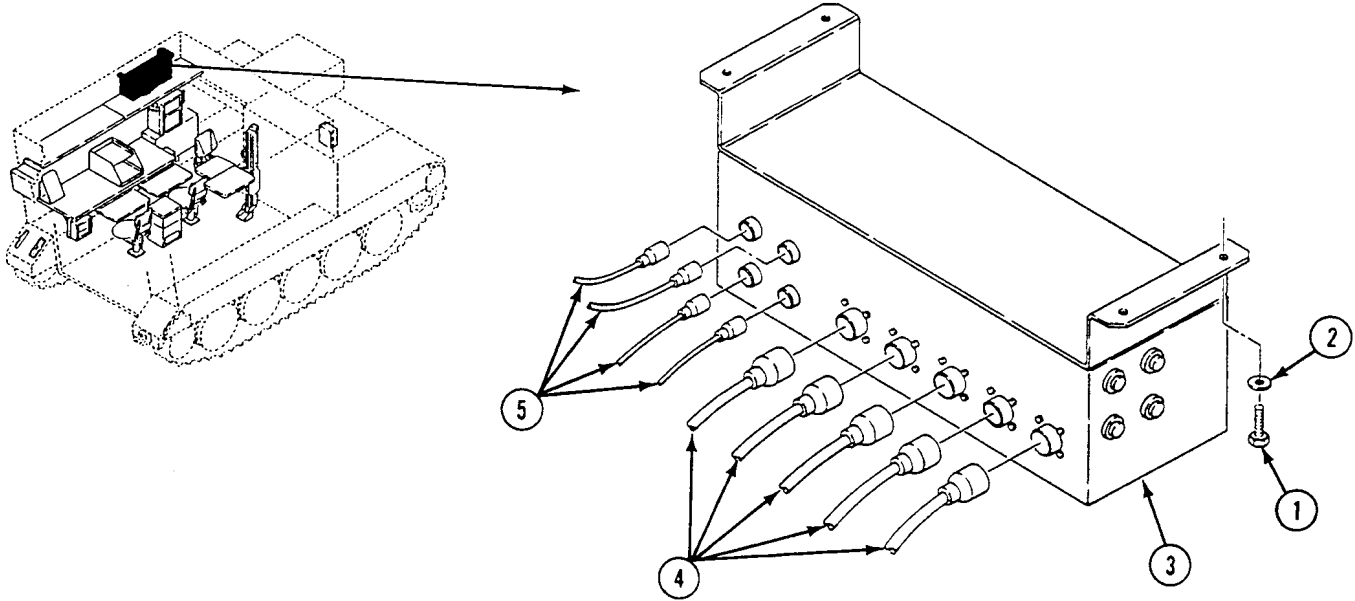
**REMOVAL**

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 0294 00).

**END OF TASK**

**REPLACE APIU RACK MOUNT AND BRACKET (M1068 ONLY)**

**0725 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0725 00-1).  
 Installation (page 0725 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

Locknut (16)

Personnel Required

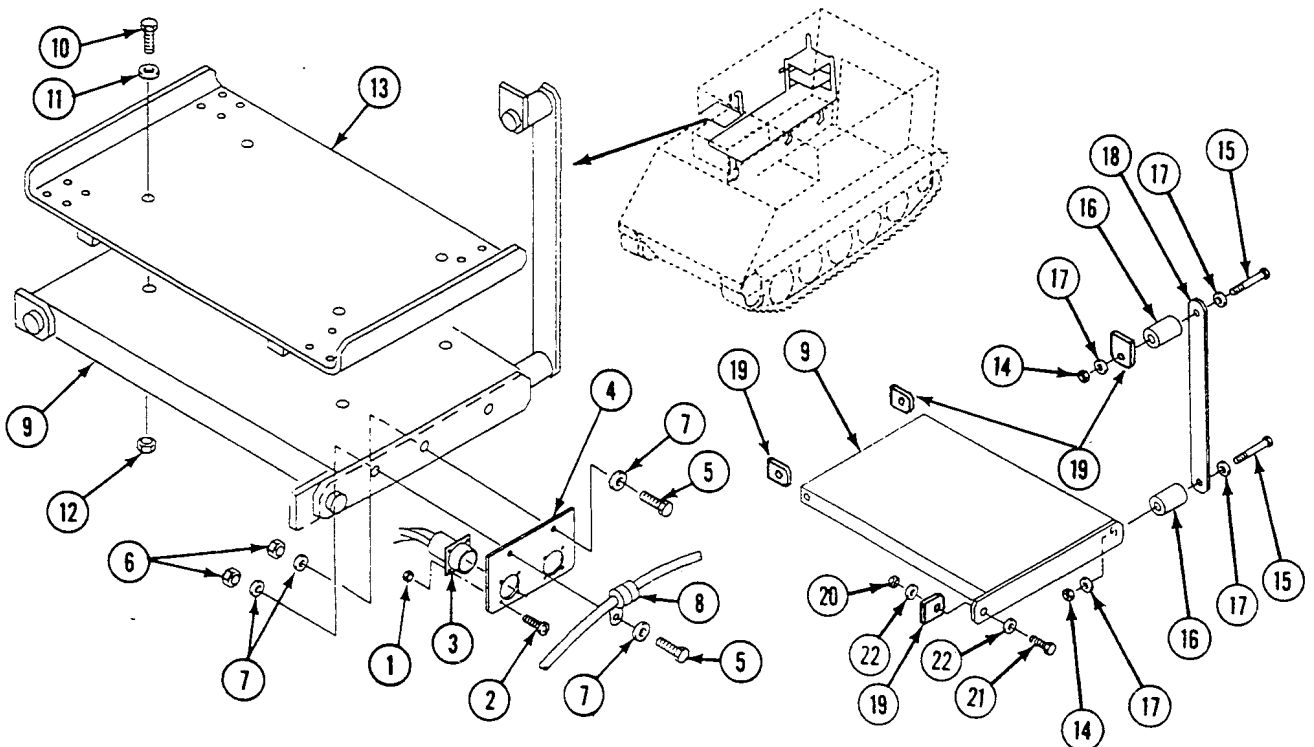
Unit Mechanic

Equipment Condition

Engine stopped (see your -10)  
 Carrier blocked (see your -10)  
 All external power disconnected  
 (TM 11-7010-256-12&P)  
 Electronic communication equipment removed  
 (TM 11-7010-256-12&P)  
 Curbside data panel assembly A12 removed  
 (WP 0716 00)  
 Battery ground lead disconnected (WP 0294 00)

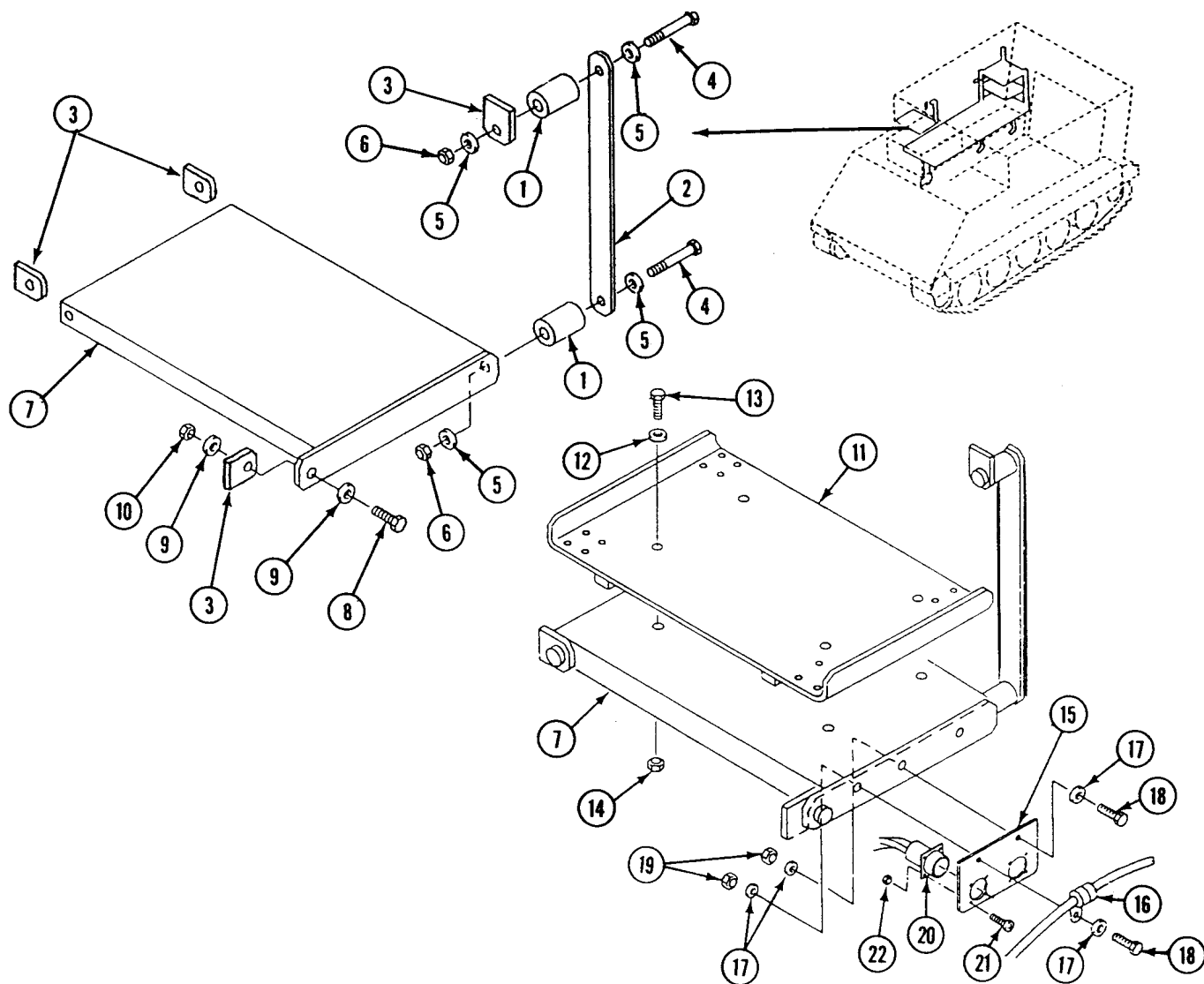
**REMOVAL**

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 locknuts.
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 locknut (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 the Adaptive Programmable Interface Unit (APIU) rack (7). Secure with four washers (12), screws (13), and new locknuts (14).
5. Install bracket (15) and clamp (16) on the Adaptive Programmable Interface Unit (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 0294 00).
2. Install electronic communication equipment. See TM 11-7010-256-12&P.
3. Install curbside data panel assembly A12 (WP 0716 00).

**END OF TASK**





**REPLACE AC POWER EXTENSION BOX A18 AND BRACKET  
(M1068 ONLY)**

**0726 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0726 00-1).  
Installation (page 0726 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

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

Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Locknut (4)

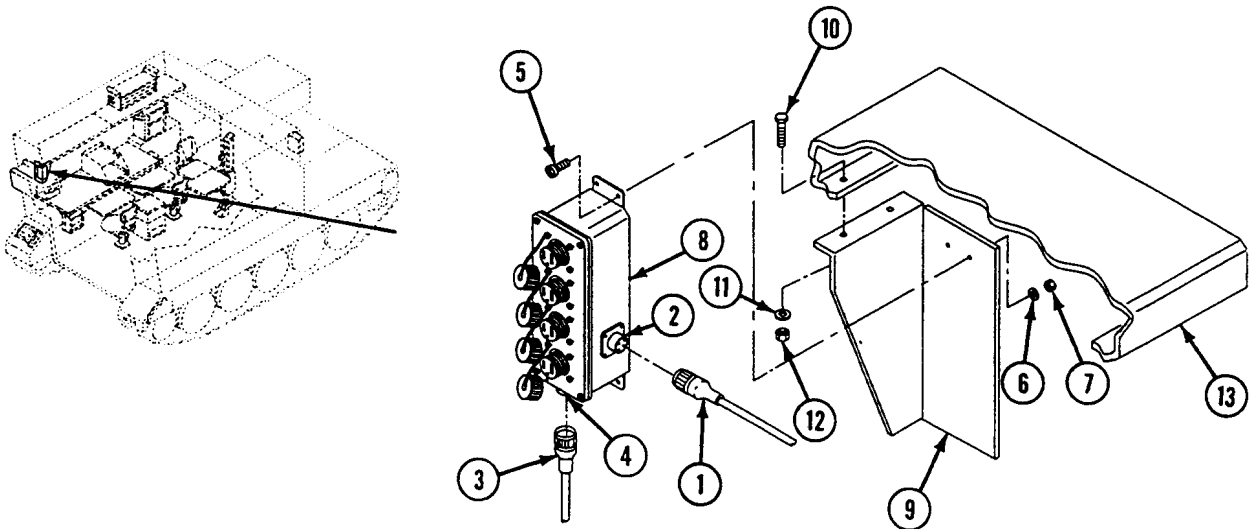
Lockwasher (2)

Personnel Required

Unit Mechanic

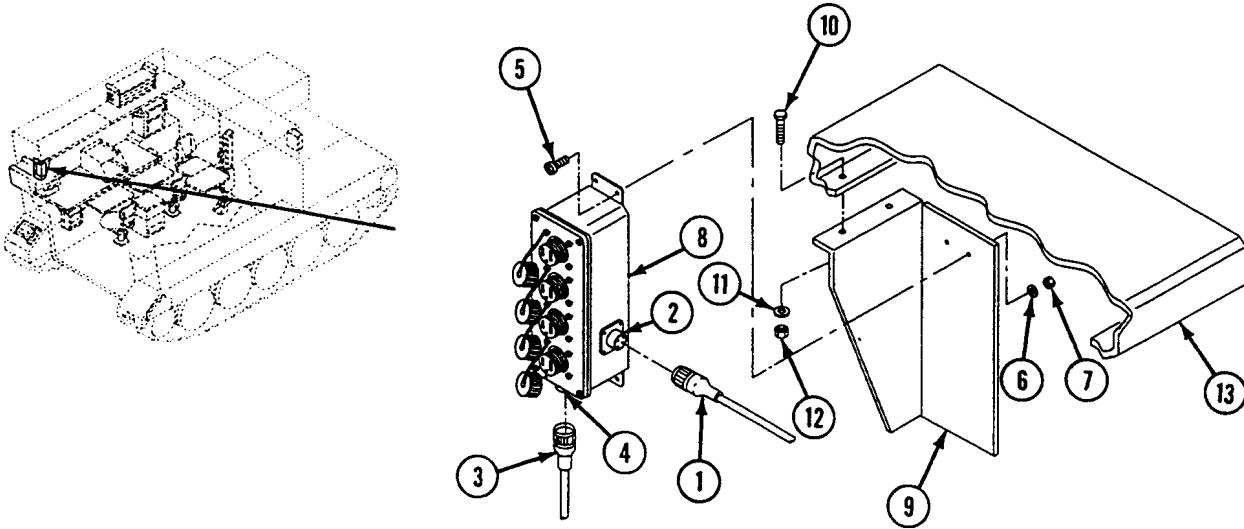
**REMOVAL**

1. Disconnect cable W252 plug P1 (1) from power extension box A18 jack J1 (2).
2. Disconnect cable W251 plug P2 (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 P2 (3) to power extension box A18 jack J6 (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 0294 00).

**END OF TASK**

**REPLACE ROADSIDE DATA PANEL ASSEMBLY A13 AND BRACKET (M1068 ONLY)**

**0727 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0727 00-1).
- Installation (page 0727 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Tools and Special Tools

Radio Equipment Tool Kit (WP 0780 00, Item 81)

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

Materials/Parts

Locknut (2)

Battery ground lead disconnected (WP 0294 00)

Personnel Required

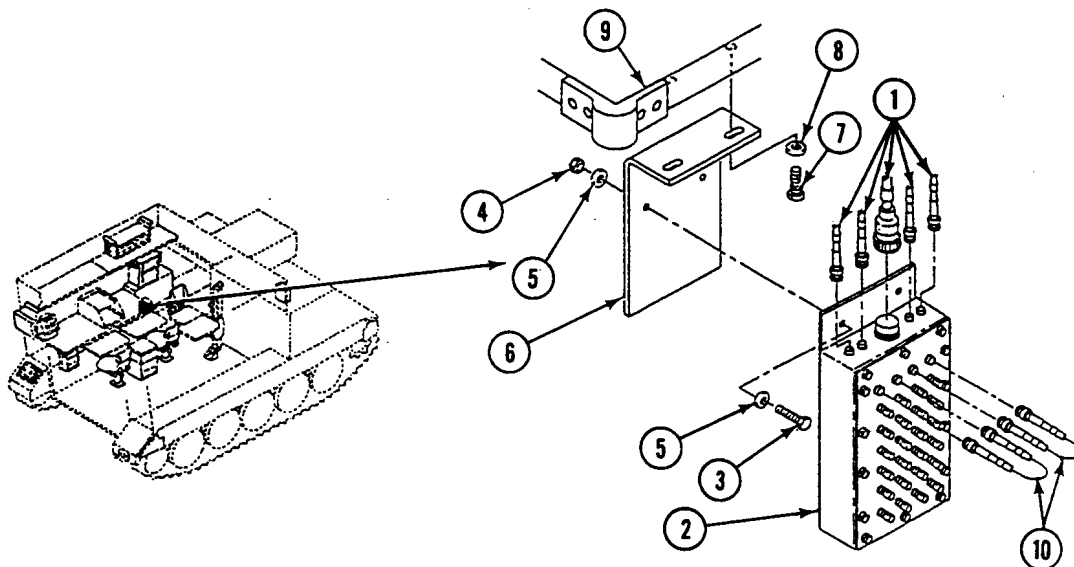
Signal Support System Specialist 31U10

**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).

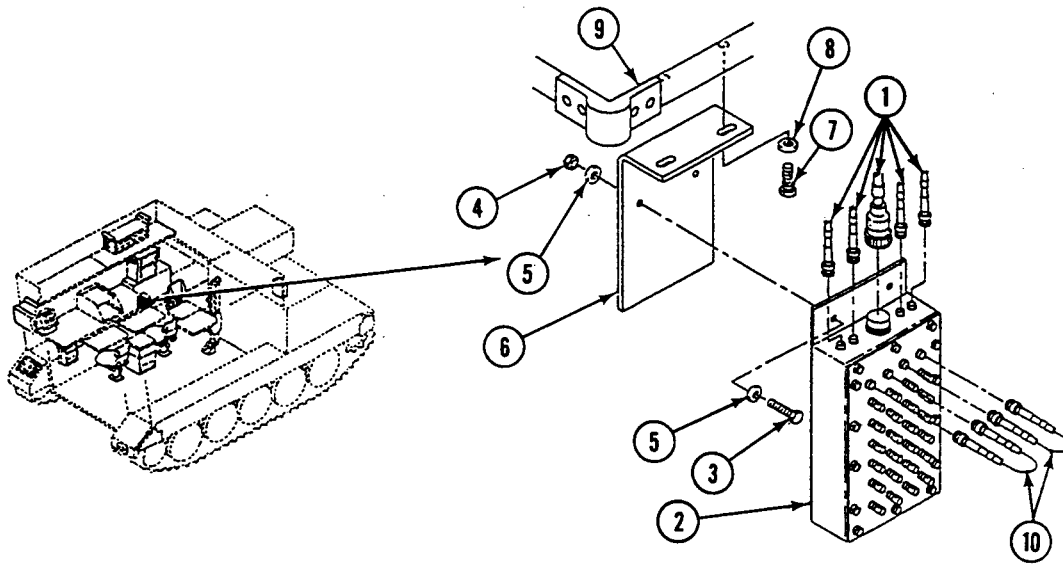


**REPLACE ROADSIDE DATA PANEL ASSEMBLY A13 AND BRACKET  
(M1068 ONLY) — Continued**

0727 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 0294 00).

**END OF TASK**

---

**REPLACE INVERTER HOUSING A2 TERMINAL BLOCKS  
TB1 AND TB2 (M1068 ONLY)**

---

**0728 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0728 00-2).  
Installation (page 0728 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Materials/Parts

Locknut (2)

Locknut (4)

Lockwasher (10)

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

Battery ground lead disconnected (WP 0294 00)

---

**REPLACE INVERTER HOUSING A2 TERMINAL BLOCKS TB1 AND TB2 (M1068 ONLY) — Continued**

0728 00

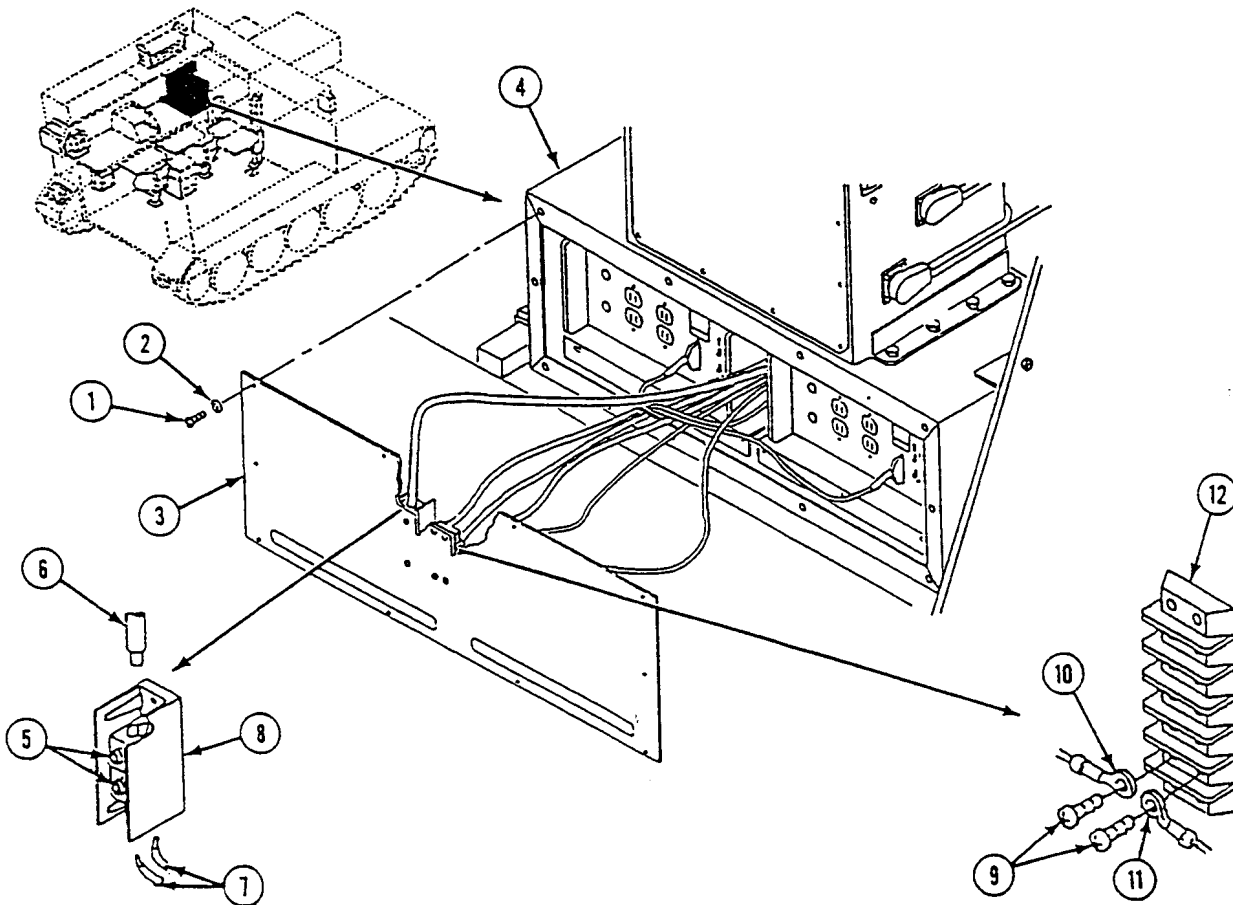
**REMOVAL**

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

**NOTE**

**Tag all leads before disconnecting.**

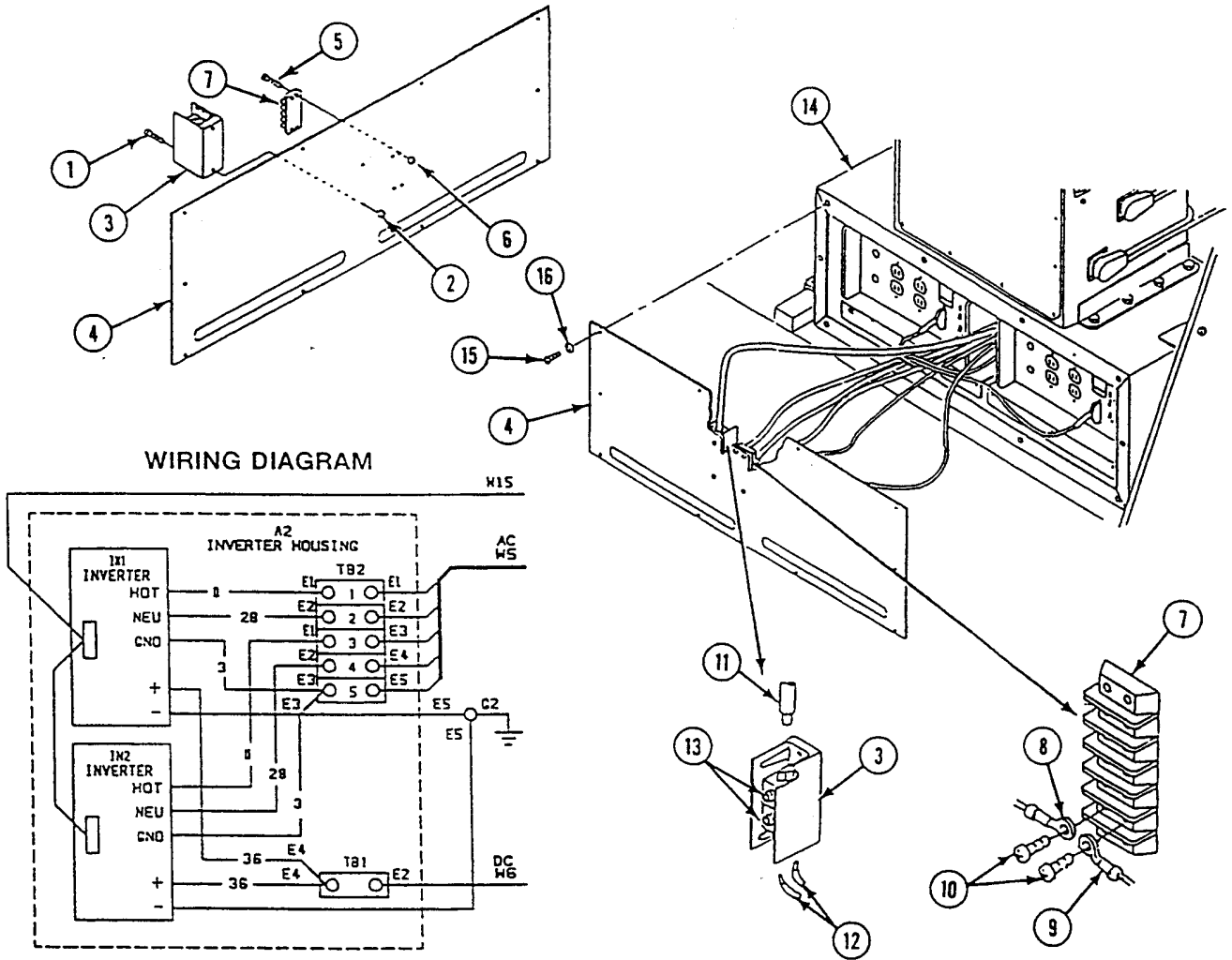
2. Loosen two set screws (5) and remove cable W6 lead E2 (6) and two inverter leads E4 (7) from terminal block TB1 (8).
3. Remove ten screws (9), cable W5 leads E1 through E5 (10), and six inverter leads (11) from terminal block TB2 (12).



**REPLACE INVERTER HOUSING A2 TERMINAL BLOCKS TB1 AND TB2 (M1068 ONLY) — Continued**

0728 00

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.



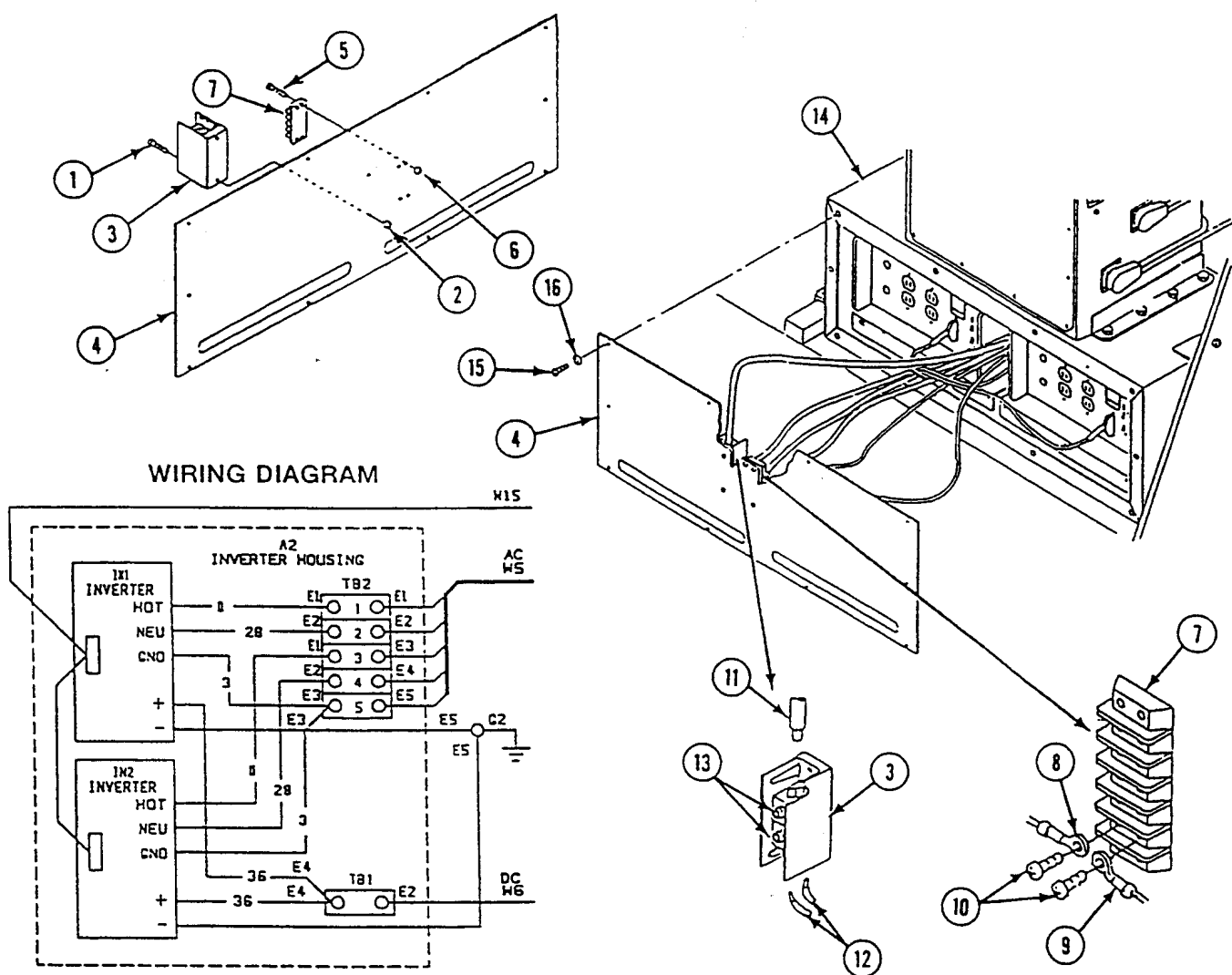


**REPLACE INVERTER HOUSING A2 TERMINAL BLOCKS TB1 AND TB2 (M1068 ONLY) — Continued**

0728 00

**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 0294 00).

**END OF TASK**

**REPLACE POWER CONTROL ENCLOSURE AC AND DC METERS AND LIGHT INDICATORS (M1068 ONLY)**

**0729 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0729 00-1).  
 Installation (page 0729 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

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 0294 00)

Materials/Parts

Primer (WP 0782 00, Item 54)

Sealing compound (WP 0782 00, Item 67)

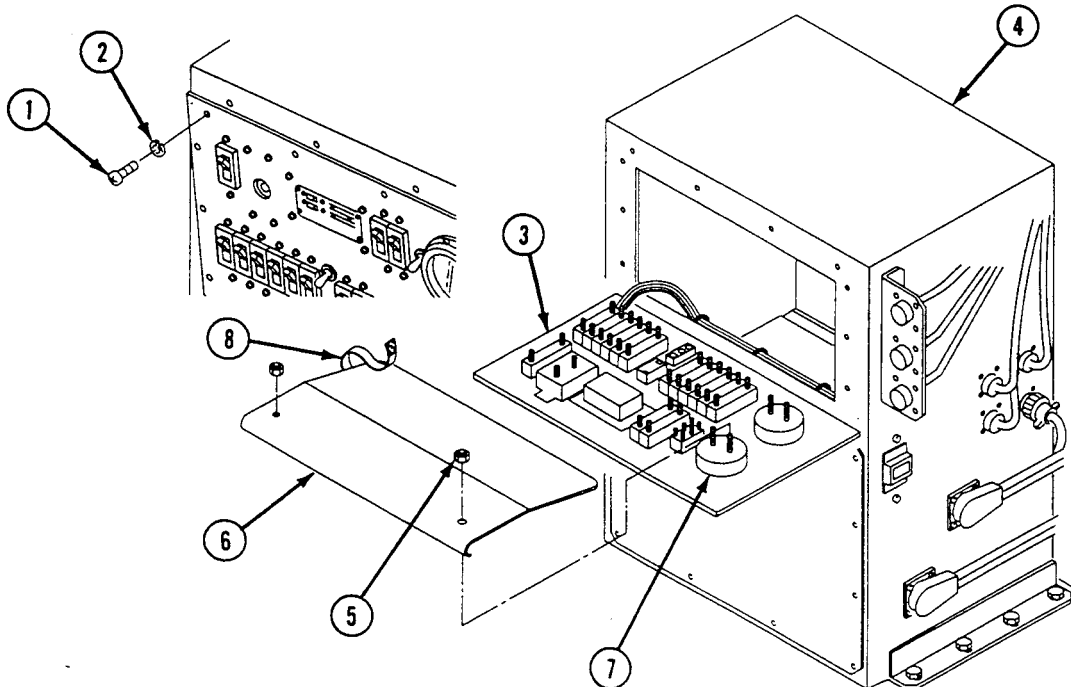
Locknut (6)

Lockwasher (10)

Lockwasher (2)

**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.



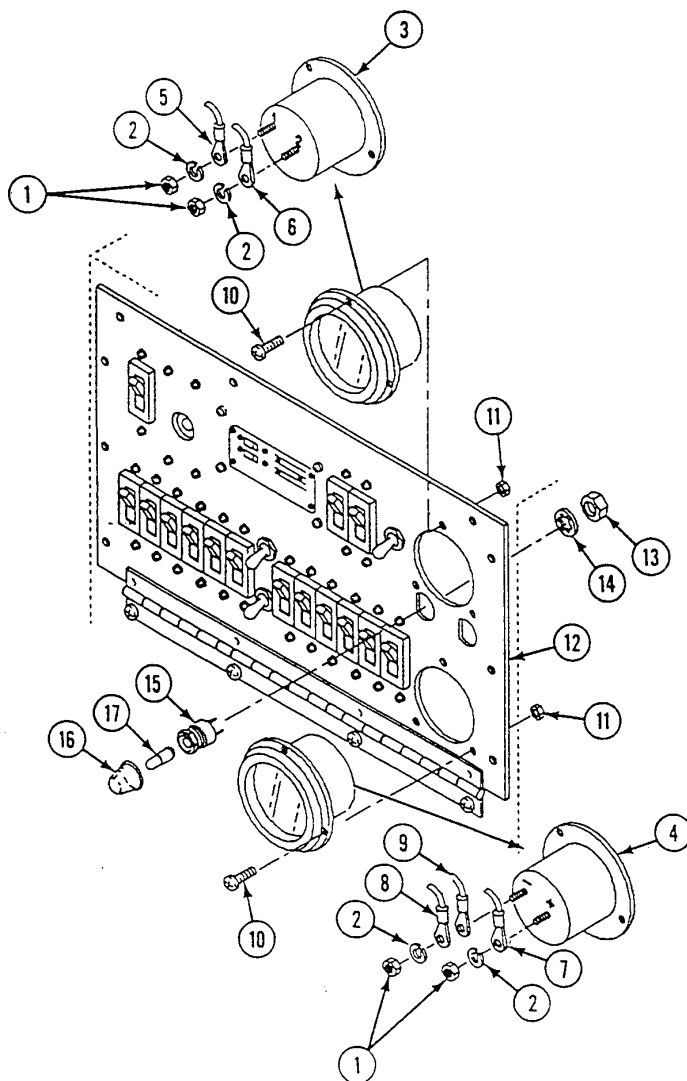
**REPLACE POWER CONTROL ENCLOSURE AC AND DC METERS AND LIGHT INDICATORS (M1068 ONLY) — Continued**

0729 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).
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). Discard lockwashers.
10. If necessary, remove lens (16) and bulb (17) from indicator light (15).

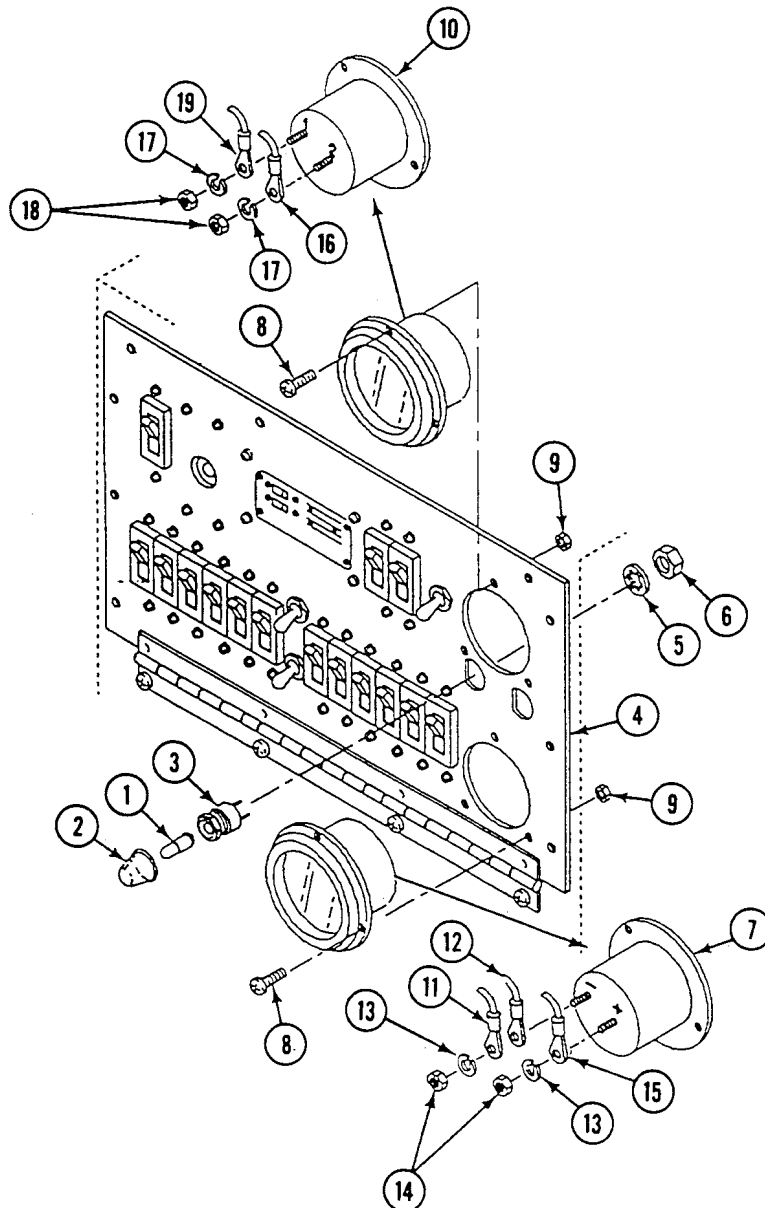


**REPLACE POWER CONTROL ENCLOSURE AC AND DC METERS AND LIGHT INDICATORS (M1068 ONLY) — Continued**

0729 00

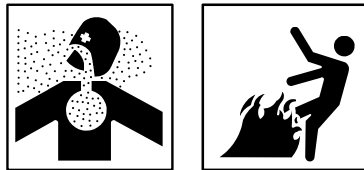
**INSTALLATION**

1. If bulb (1) or lens (2) was removed, install on indicator light (3).
2. Install two indicator lights (3) on faceplate (4). Secure with two new 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 (M1068 ONLY) — Continued**

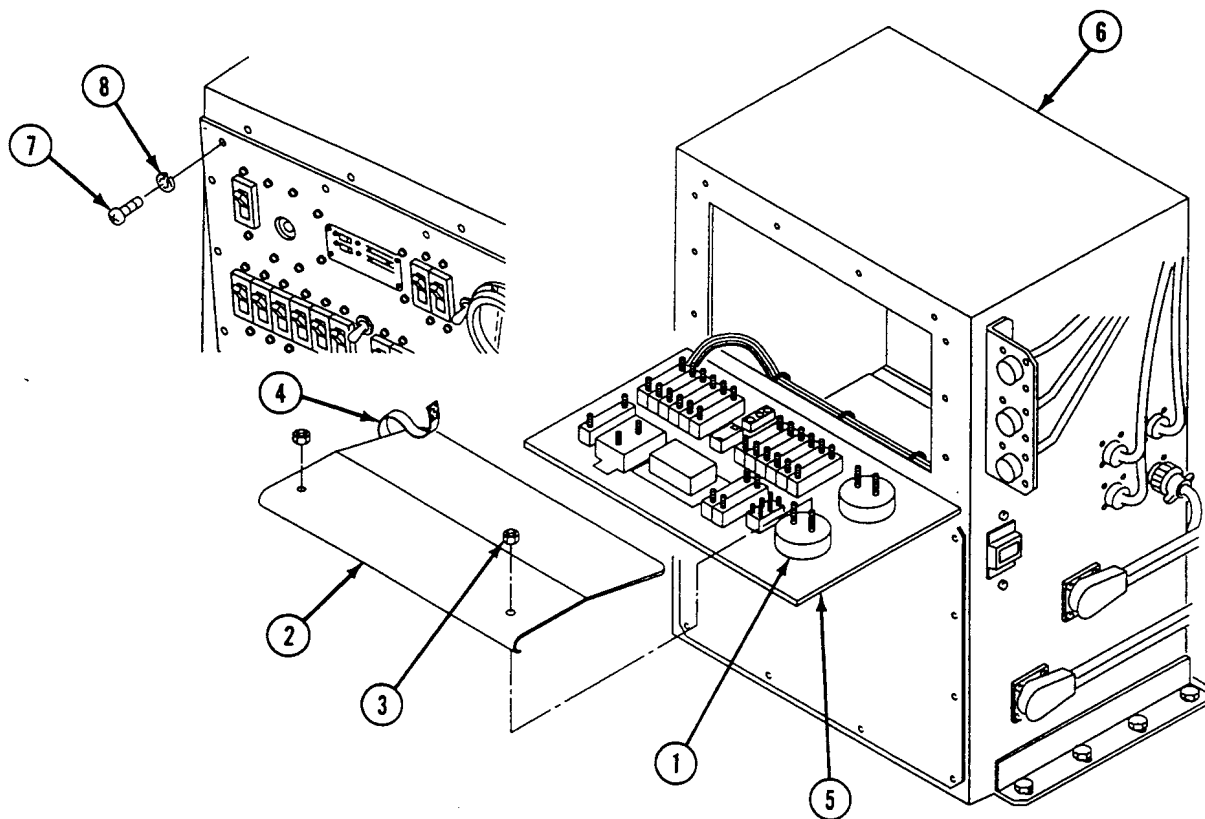
0729 00

**WARNING**


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

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

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 0294 00).

**END OF TASK**

**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET (M1068 ONLY)**

**0730 00**

**THIS WORK PACKAGE COVERS:**

Disassembly (page 0730 00-1).  
 Assembly (page 0730 00-5).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

References

Wiring Diagram (FO-7)

Materials/Parts

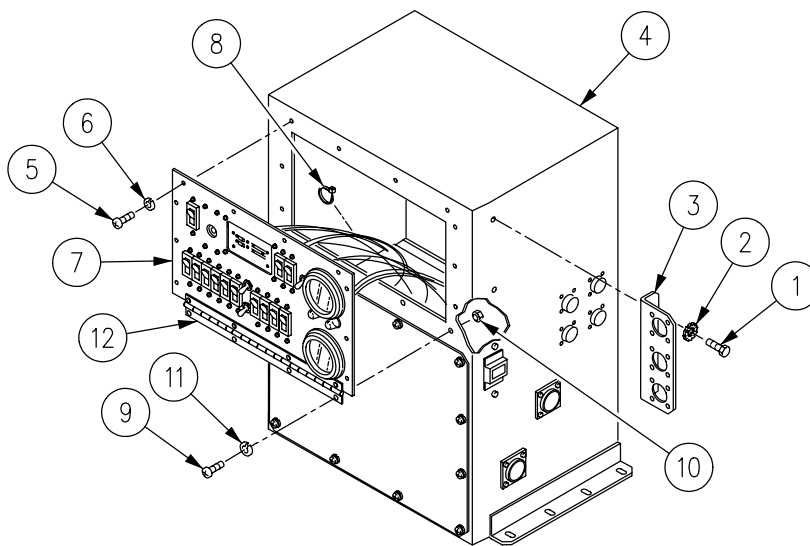
Primer (WP 0782 00, Item 54)  
 Sealing compound (WP 0782 00, Item 67)  
 Locknut (4)  
 Locknut (4)  
 Lockwasher (4)  
 Lockwasher (6)  
 Lockwasher (10)  
 Tie strap (AR)

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 0294 00)

**DISASSEMBLY**

1. Remove two screws (1), lockwashers (2), and bracket (3) from enclosure (4). Discard lockwashers.
2. Remove ten screws (5), lockwashers (6), and faceplate assembly (7) from enclosure (4). Lower faceplate (7). Discard lockwashers.
3. Remove tie straps (8) from leads as required. Discard tie straps.
4. Remove four screws (9), locknuts (10), and washers (11) from faceplate hinge (12). Discard locknuts.



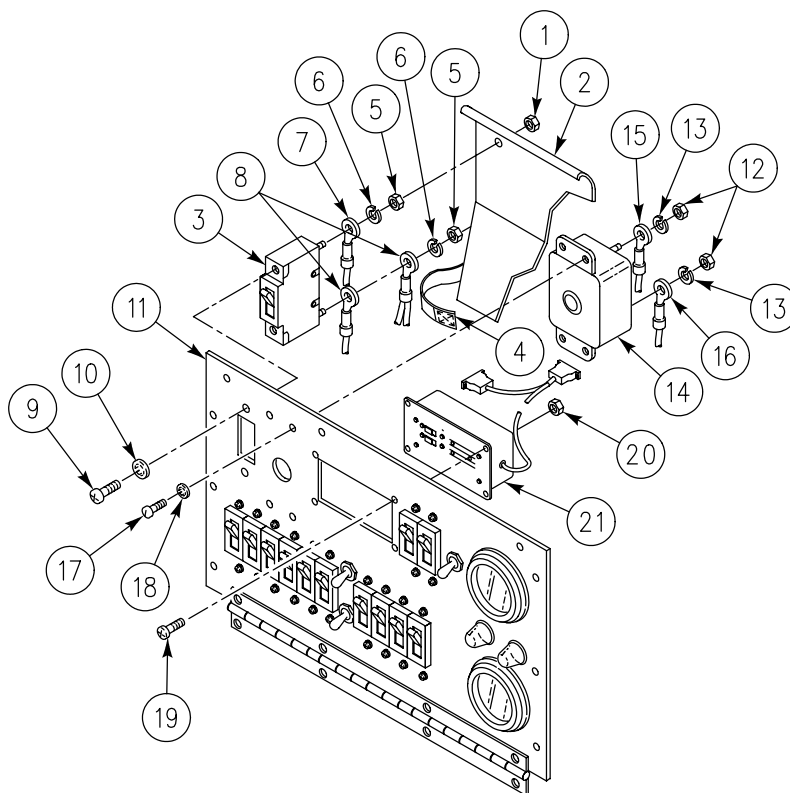
**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET  
(M1068 ONLY) — Continued**

0730 00

**NOTE**

**Tag all leads before removal. There are 12 circuit breakers. All circuit breakers are removed in the same way. The art work shows the removal of only one circuit breaker. Use wiring diagram (see FO-7).**

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).
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.



**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET  
(M1068 ONLY) — Continued**

0730 00

**NOTE**

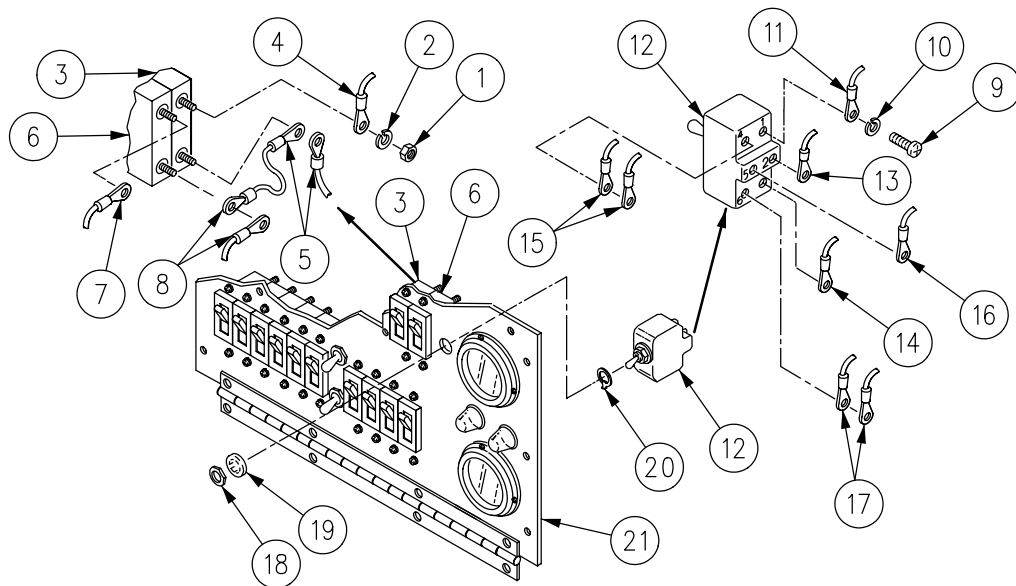
**All leads for CB3 and CB4 are secured with a washer and a nut. Art work shows the removal of only one washer and one nut.**

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).

**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).

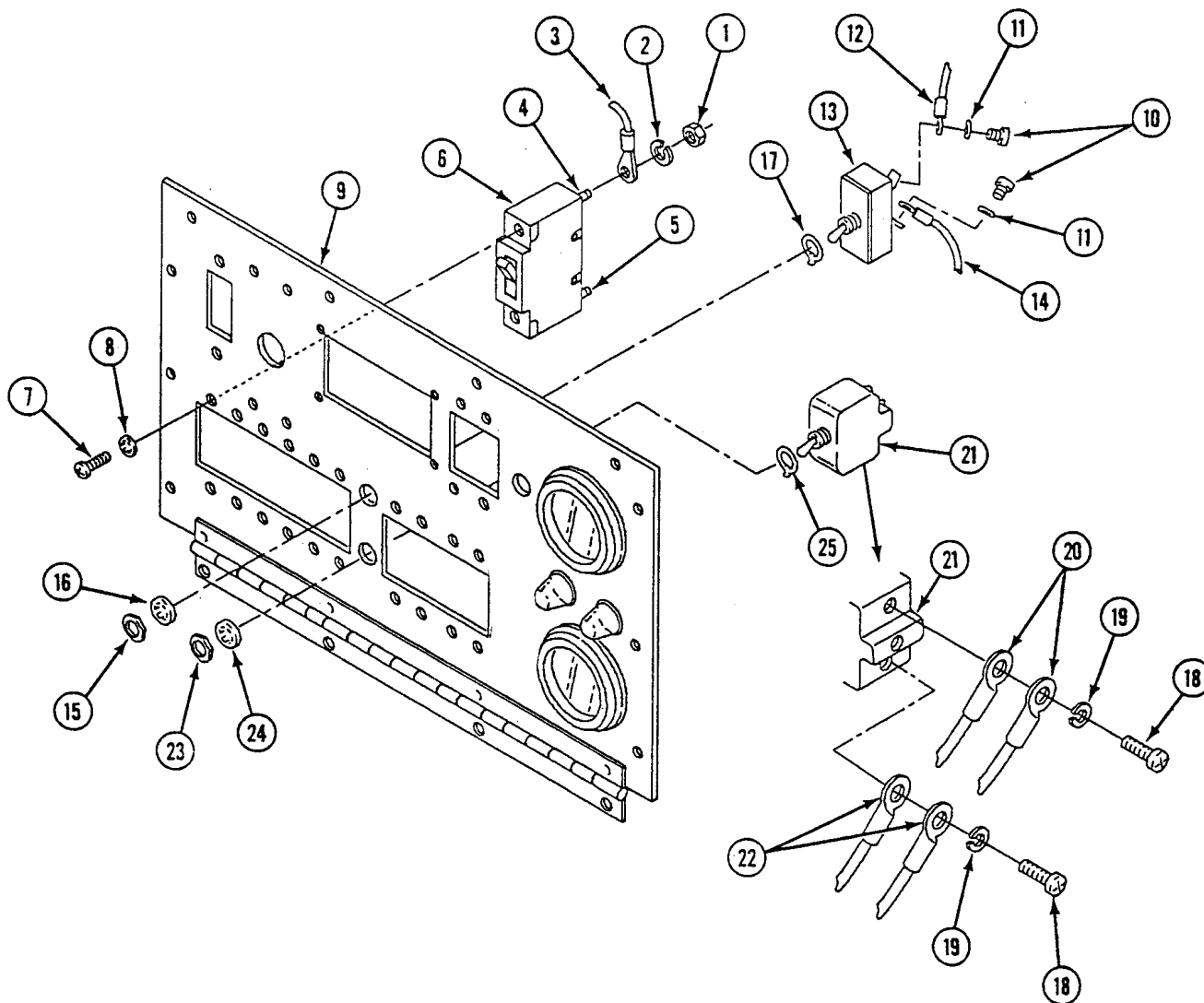




**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET  
(M1068 ONLY) — Continued**

0730 00

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).



**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET  
(M1068 ONLY) — Continued**

0730 00

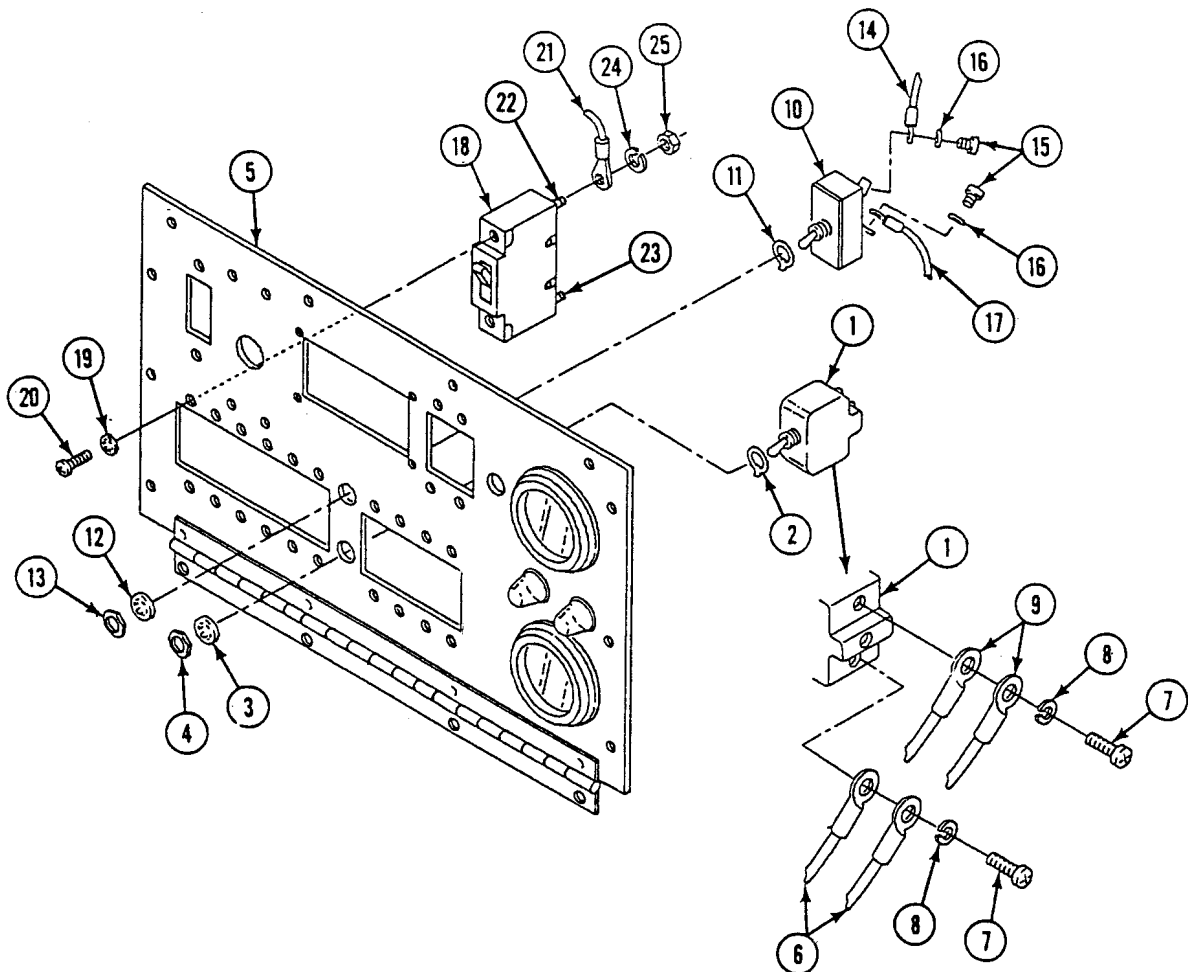
**ASSEMBLY**

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. All circuit breakers are installed in the same way. Art work shows the installation of one circuit breaker. Use wiring diagram (see FO-7).**

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).



**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET  
(M1068 ONLY) — Continued**

0730 00

**NOTE**

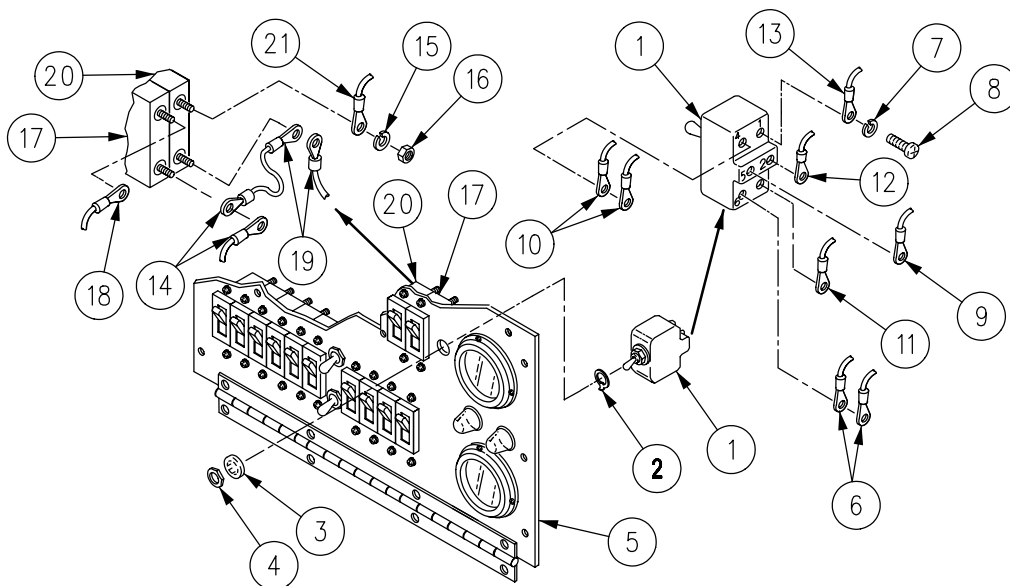
**All S2 leads are secured with a washer and a screw. The art work shows the installation of only one washer and one screw.**

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.**

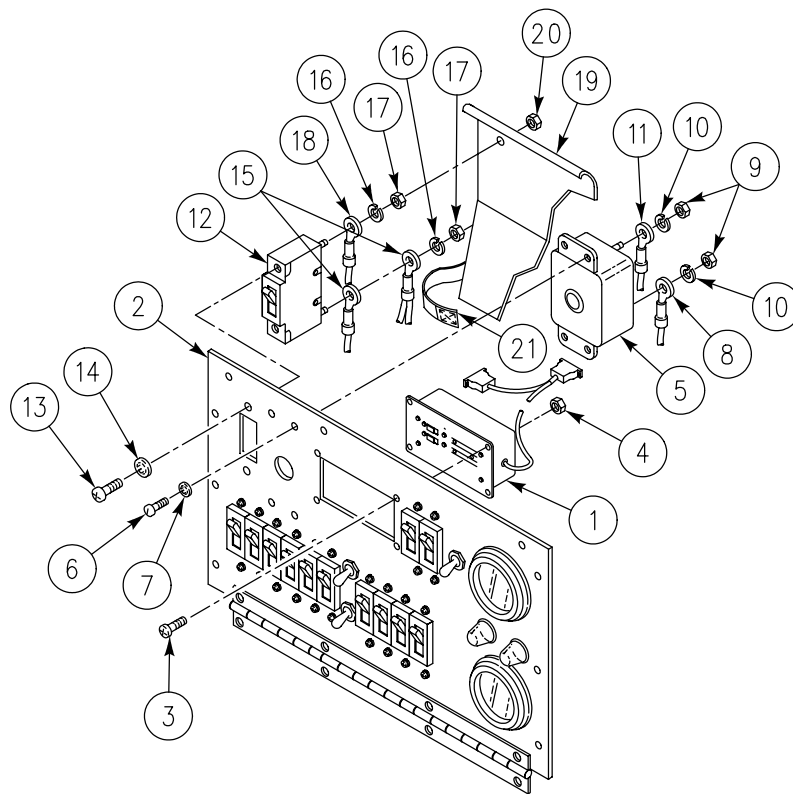
16. Install circuits 13B and 13C leads (14), lockwasher (15), and nut (16) on terminal 2 of circuit breaker CB4 (17).
17. Install circuit 12A lead (18), lockwasher (15), and nut (16) on terminal 1 of circuit breaker CB4 (17).
18. Install circuits 13B and 13A leads (19), lockwasher (15), and nut (16) 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  
(M1068 ONLY) — Continued**

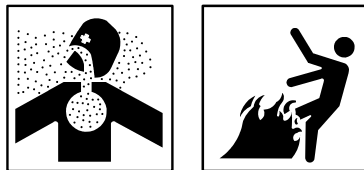
0730 00

20. Install cascade remote harness RPI (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).



**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET  
(M1068 ONLY) — Continued**

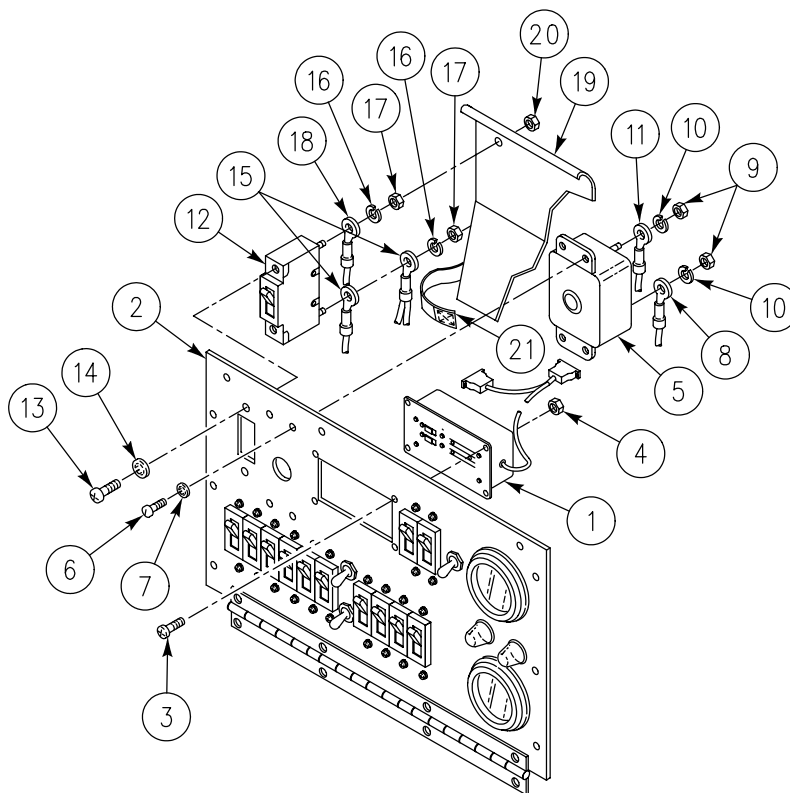
0730 00

**WARNING**


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

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

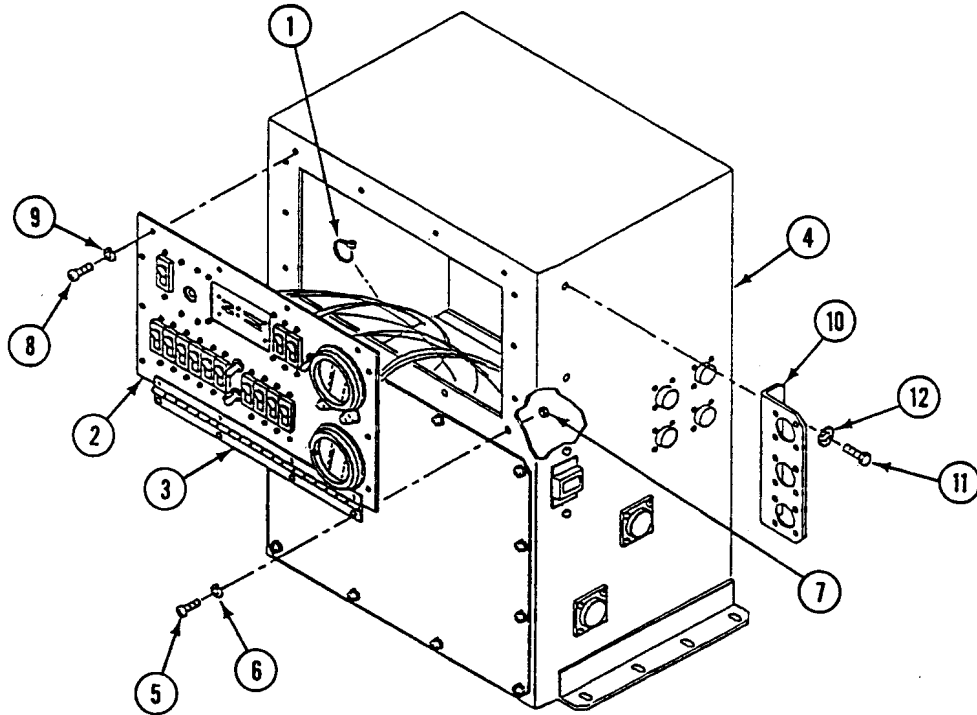
27. Apply primer and sealing compound to threads of terminal 1 of circuit breaker CB1 (12).
28. Install safety cover (19) and nut (20) on terminal 2 of circuit breaker CB1 (12). Wrap velcro strap (21) around local wiring.



**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET  
(M1068 ONLY) — Continued**

0730 00

29. Install new tie 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 0294 00).

**END OF TASK**



**REPLACE POWER CONTROL ENCLOSURE ASSEMBLY A1 (M1068 ONLY)**

**0731 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0731 00-1).  
 Installation (page 0731 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

Lockwasher (2)

Personnel Required

Power-Generation Equipment Repairer 52D10

Helper (H)

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 0294 00)

Roadside data panel A13 removed (WP 0727 00)

Cascade remote harness W15 removed (WP 0745 00)

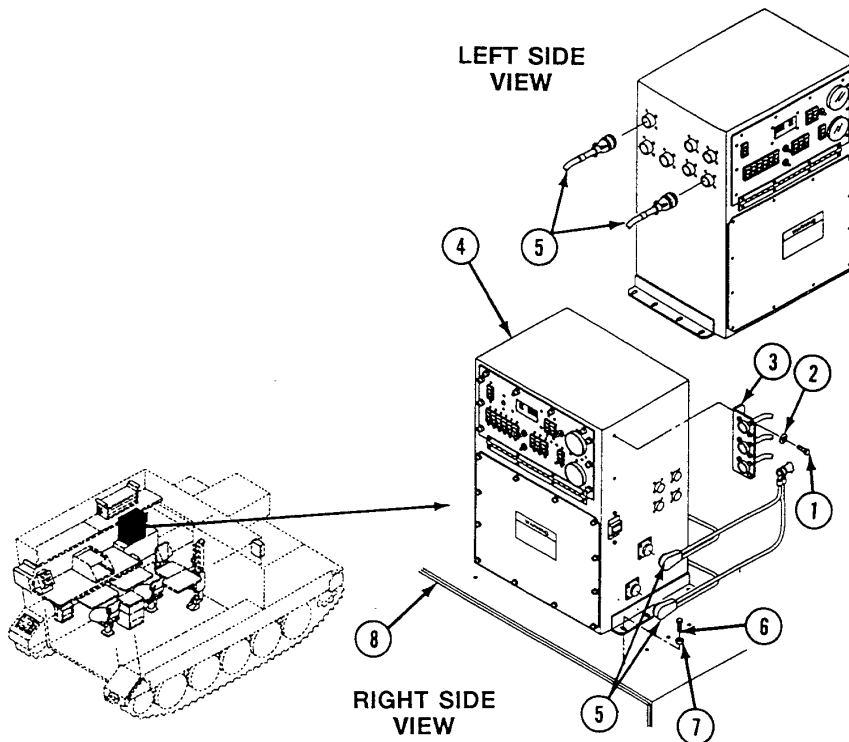
**REMOVAL**

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.**

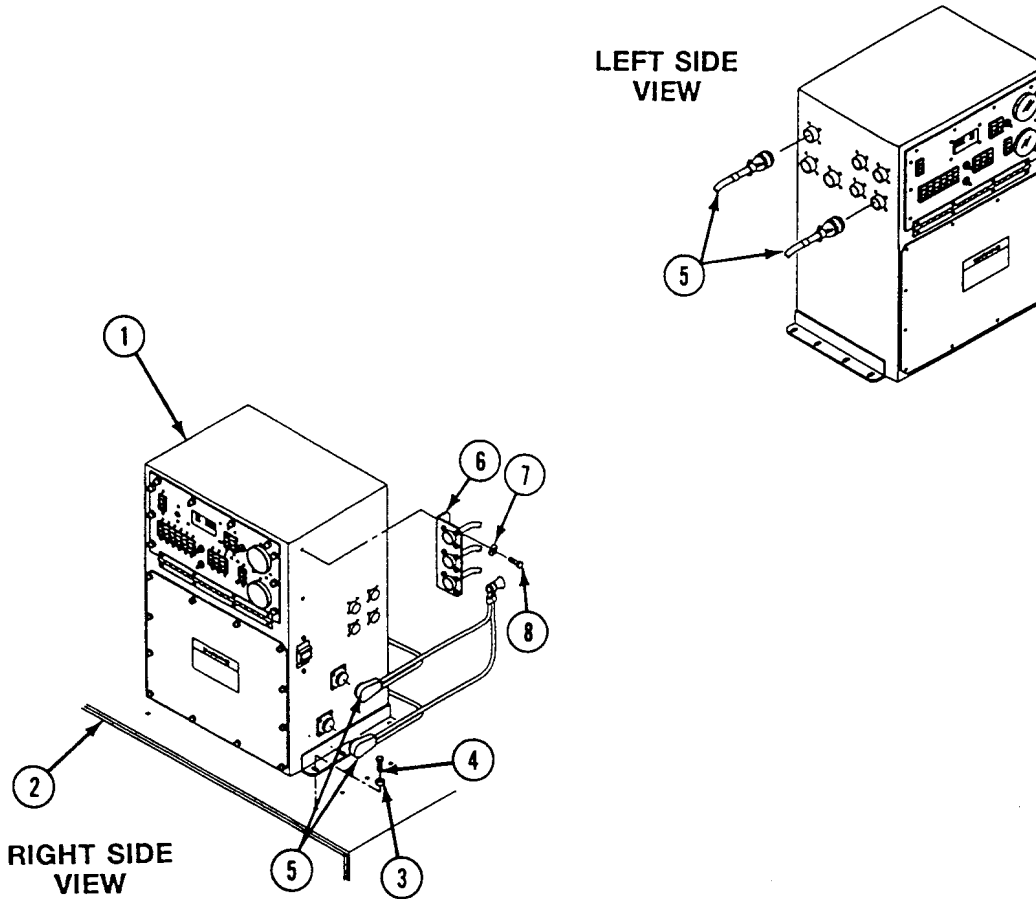
2. Disconnect all cables/connectors (5) from left and right sides of power control enclosure (4).
3. Remove eight screws (6), washers (7), and power control enclosure (4) from inverter housing (8). Have helper assist.





**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 0745 00).
2. Install roadside data panel A13 (WP 0727 00).
3. Connect battery ground lead (WP 0294 00).

**END OF TASK**

**REPLACE POWER CONTROL ENCLOSURE CIRCUIT 44A  
LEAD (M1068 ONLY)**

**0732 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0732 00-1).  
Installation (page 0732 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

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 0294 00)

Materials/Parts

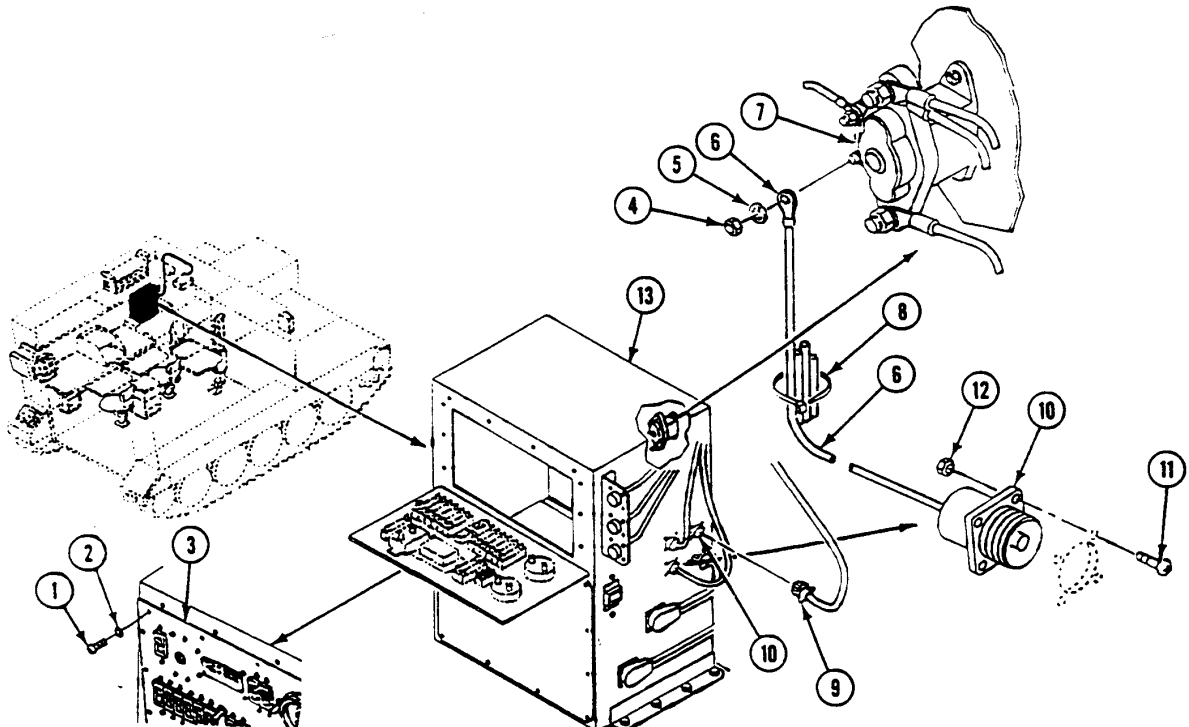
Locknut (4)

Lockwasher (10)

Tie strap (AR)

**REMOVAL**

1. Remove ten screws (1) and lockwashers (2), and lower faceplate (3). Discard lockwashers.
2. Remove nut (4), lockwasher (5), and lead 44A (6) from terminal X1 of relay K6 (7). Do not discard lockwasher.
3. Remove tie straps (8) holding lead 44A (6) to other leads. Discard tie straps.
4. Disconnect cable plug W38 P7 (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.

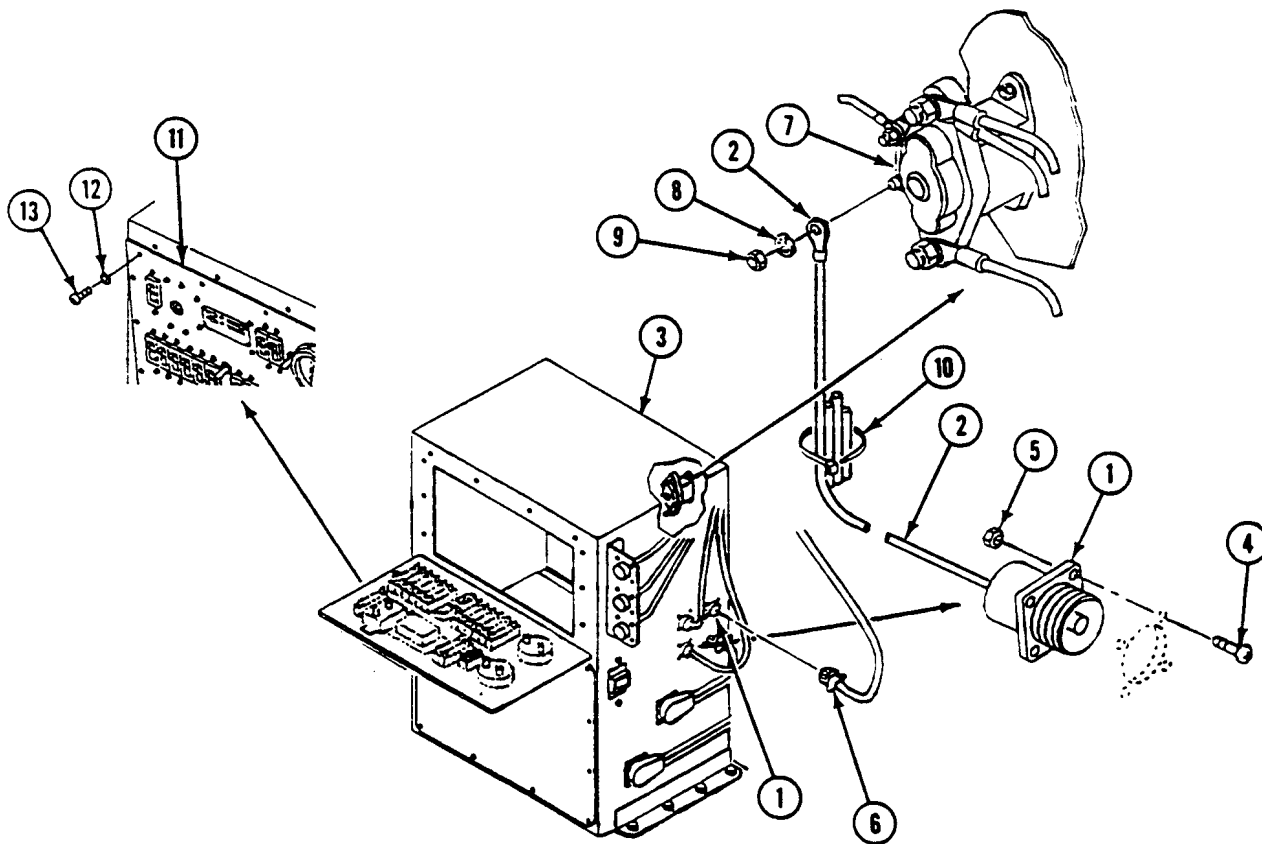


**REPLACE POWER CONTROL ENCLOSURE CIRCUIT 44A LEAD (M1068 ONLY) — Continued**

0732 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 W38 P7 (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 tie straps (10) as required.
5. Raise faceplate (11) and secure to power control enclosure (3) with ten new lockwashers (12) and screws (13).


**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**

**REPLACE/REPAIR POWER SUPPLY STORAGE BOX  
ASSEMBLY (M1068 ONLY)**

**0733 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0733 00-1).
- Disassembly (page 0733 00-2).
- Assembly (page 0733 00-3).
- Installation (page 0733 00-4).

**INITIAL SETUP:**

Maintenance Level

Unit

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 W252 disconnected (WP 0753 00)
- Stowage items removed from stowage box

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

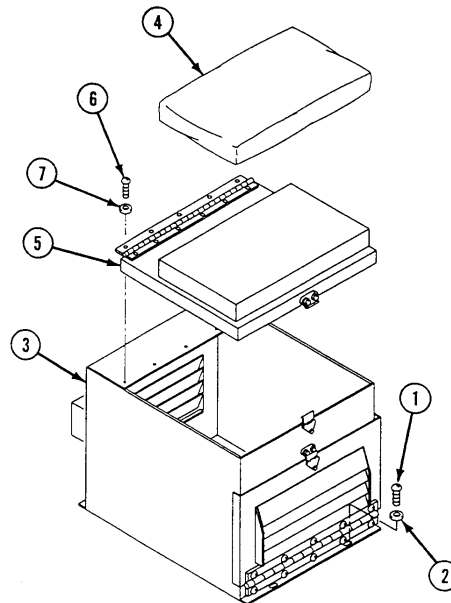
- Locknut
- Lockwasher (5)

Personnel Required

Unit Mechanic

**REMOVAL**

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



---

**REPLACE/REPAIR POWER SUPPLY STORAGE BOX ASSEMBLY  
(M1068 ONLY) — Continued**

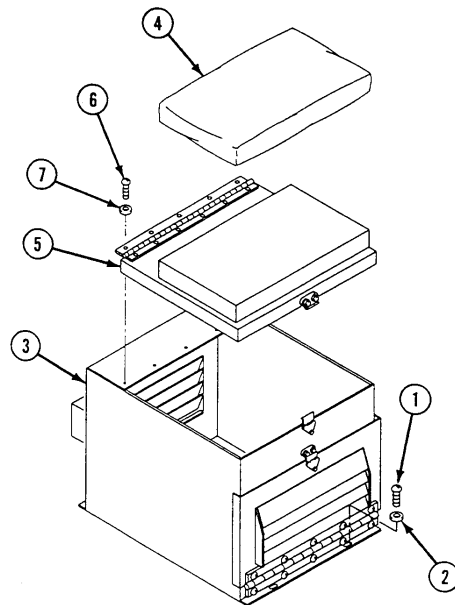
---

0733 00

**DISASSEMBLY****NOTE**

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

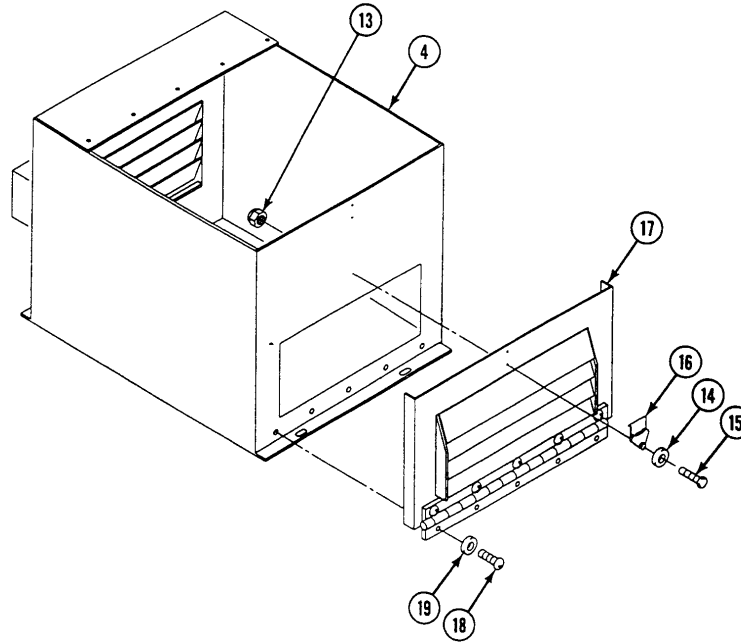
1. Remove seat cushion (4) from lid (5).
2. Remove five screws (6), lockwashers (7), and lid (5) from box (3). Discard lockwashers.



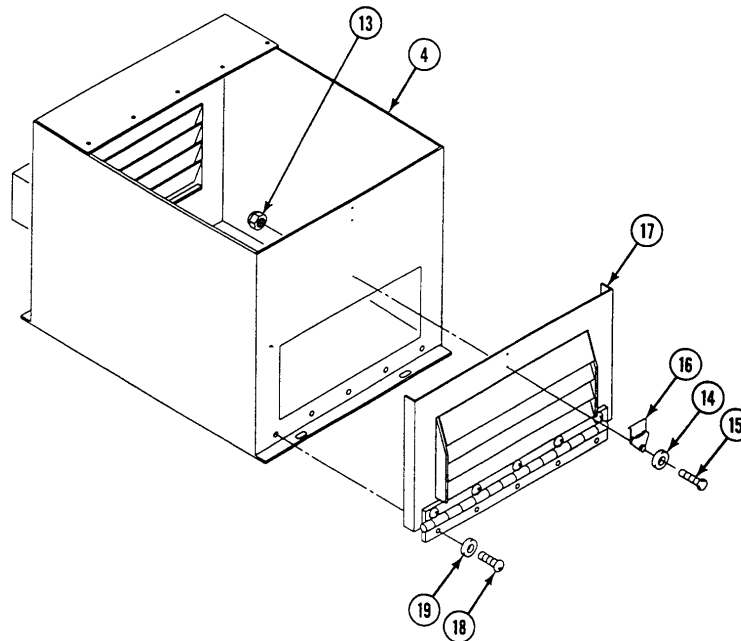
**REPLACE/REPAIR POWER SUPPLY STORAGE BOX ASSEMBLY  
(M1068 ONLY) — Continued**

0733 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).

**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).



**REPLACE/REPAIR POWER SUPPLY STORAGE BOX ASSEMBLY  
(M1068 ONLY) — Continued**

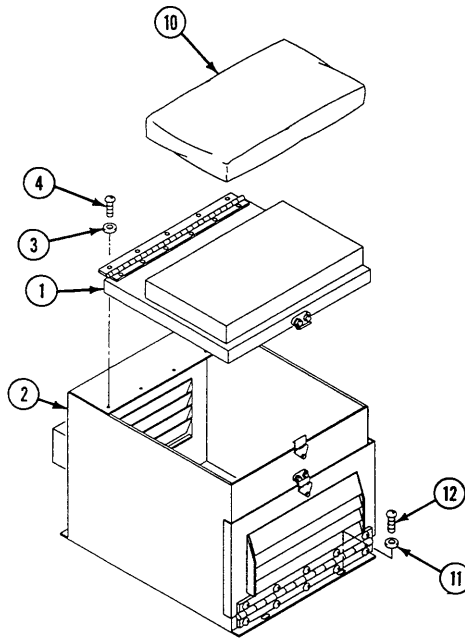
0733 00

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

**NOTE**

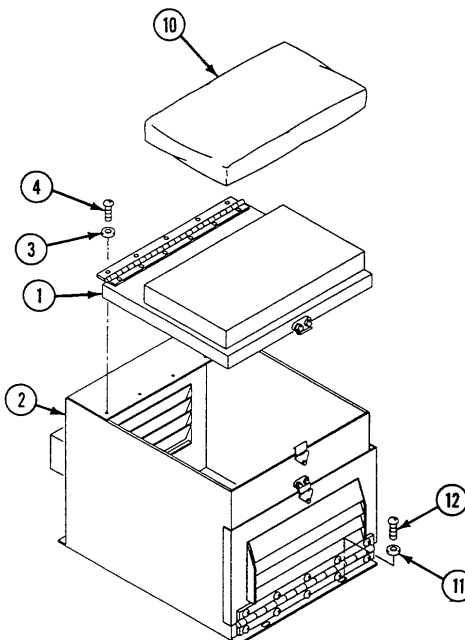
**If removed, install seat cushion pad in seat cushion cover.**

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



**INSTALLATION**

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



---

**REPLACE/REPAIR POWER SUPPLY STORAGE BOX ASSEMBLY  
(M1068 ONLY) — Continued**

---

**0733 00**

**FOLLOW-THROUGH STEPS**

1. Install cables W42, W43, and W252 (WP 0753 00).
2. Replace items/contents into storage box.
3. Install UPS power supply. See TM 11-7010-256-12&P.

**END OF TASK**





**REPLACE TENT INTERFACE PANEL BOX ASSEMBLY A5 (M1068 ONLY)**

**0734 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0734 00-1).  
 Installation (page 0734 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)  
 Radio Equipment Tool Kit (WP 0780 00, Item 81)

Personnel Required

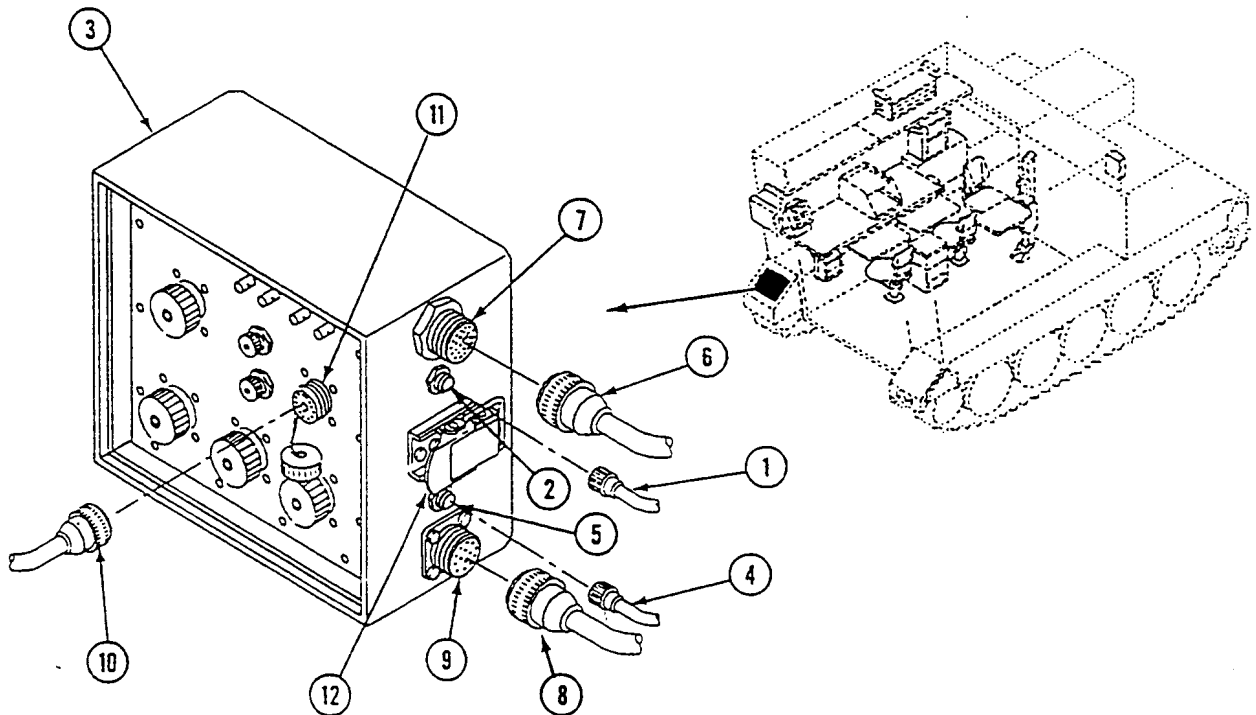
Power Generation Equipment Repairer 52D10  
 Signal Support System Specialist 31U10

Equipment Condition

Engine stopped (see your -10)  
 Carrier blocked (see your -10)  
 All external power disconnected (TM 11-7010-256-12&P)  
 Battery ground lead disconnected (WP 0294 00)

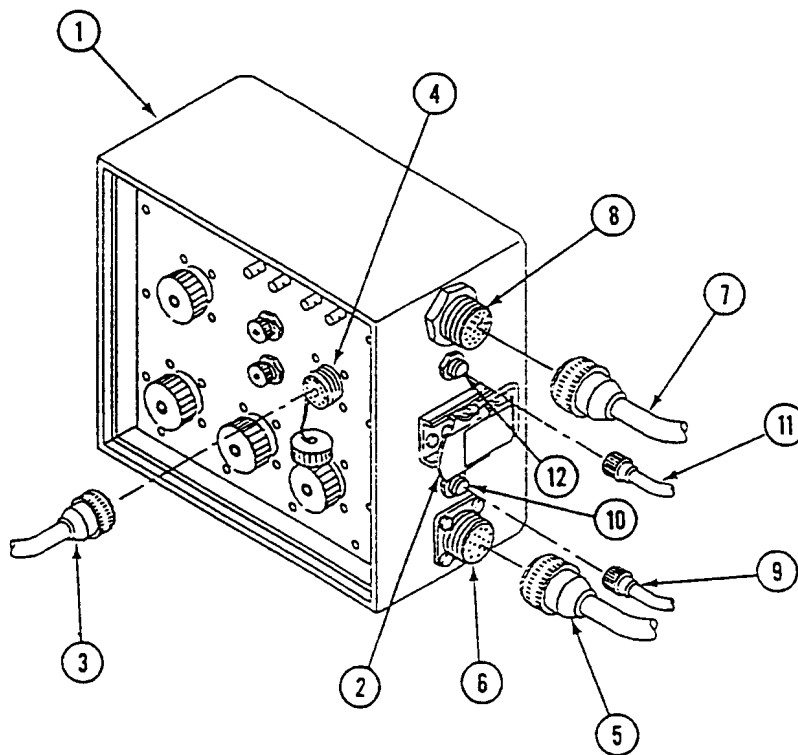
**REMOVAL**

1. Disconnect W32 P8 (1) from J10 (2) of tent interface panel (3).
2. Disconnect W32 P9 (4) from J9 (5) of tent interface panel (3).
3. Disconnect W32 P7 (6) from J8 (7) of tent interface panel (3).
4. Disconnect W32 P6 (8) from J7 (9) of tent interface panel (3).
5. Disconnect W129 P1 (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 W129 P1 (3) to J137 (4) of tent interface panel (1).
3. Connect W32 P6 (5) to J7 (6) of tent interface panel (1).
4. Connect W32 P7 (7) to J8 (8) of tent interface panel (1).
5. Connect W32 P9 (9) to J9 (10) of tent interface panel (1).
6. Connect W32 P8 (11) to J10 (12) of tent interface panel (1).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**

**REPLACE AC POWER EXTENSION BOX A6 AND DC POWER EXTENSION BOX A9 AND MOUNT (M1068 ONLY)**

**0735 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0735 00-1).  
 Installation (page 0735 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

Locknut (8)

Personnel Required

Power-Generation Equipment Repairer 52D10

Equipment Condition

Engine stopped (see your -10)

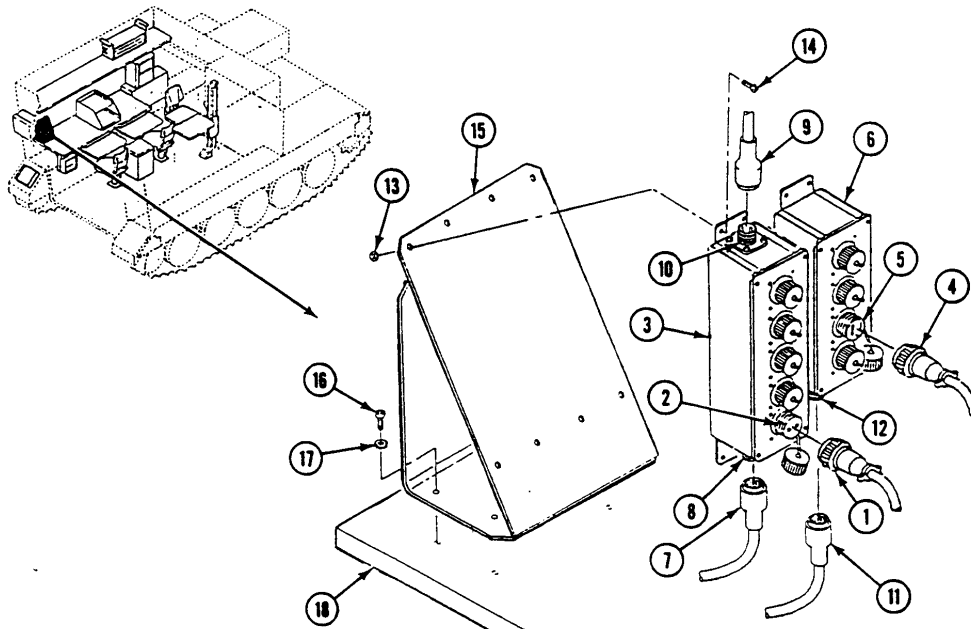
Carrier blocked (see your -10)

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

Battery ground lead disconnected (WP 0294 00)

**REMOVAL**

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

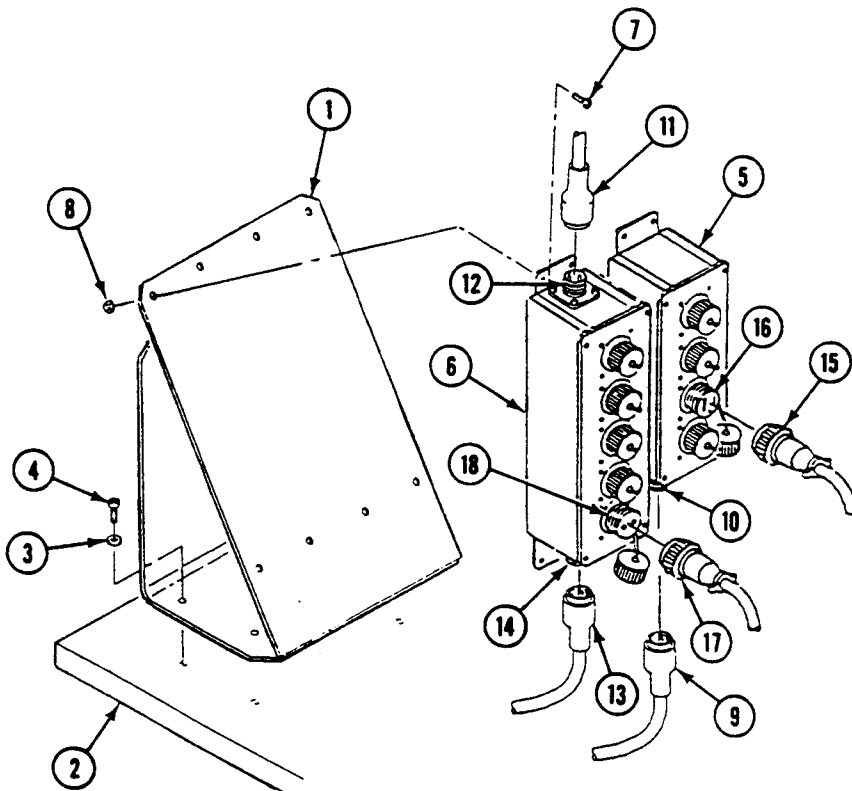


**REPLACE AC POWER EXTENSION BOX A6 AND DC POWER EXTENSION BOX A9 AND MOUNT (M1068 ONLY) — Continued**

0735 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 0294 00).

**END OF TASK**

**REPLACE/REPAIR POWER DISTRIBUTION BOX A3 (M1068 ONLY)**

**0736 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0736 00-1).
- Disassembly (page 0736 00-2).
- Assembly (page 0736 00-3).
- Installation (page 0736 00-4).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10  
Helper (H)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

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 0294 00)

Materials/Parts

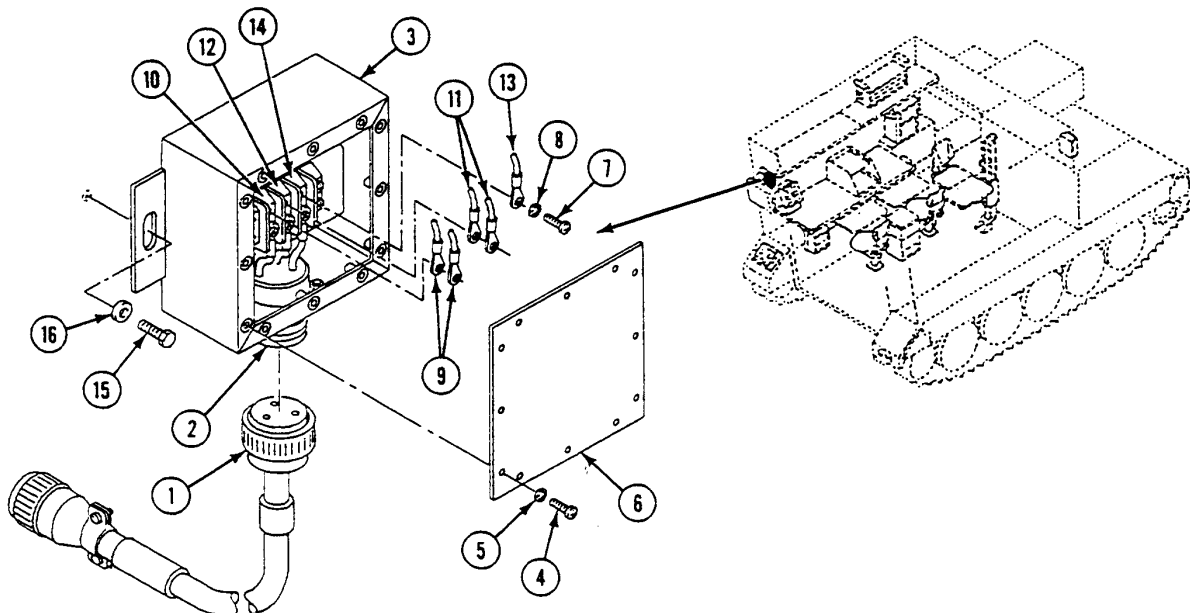
Locknut (4)  
Lockwasher (12)

**REMOVAL**

**NOTE**

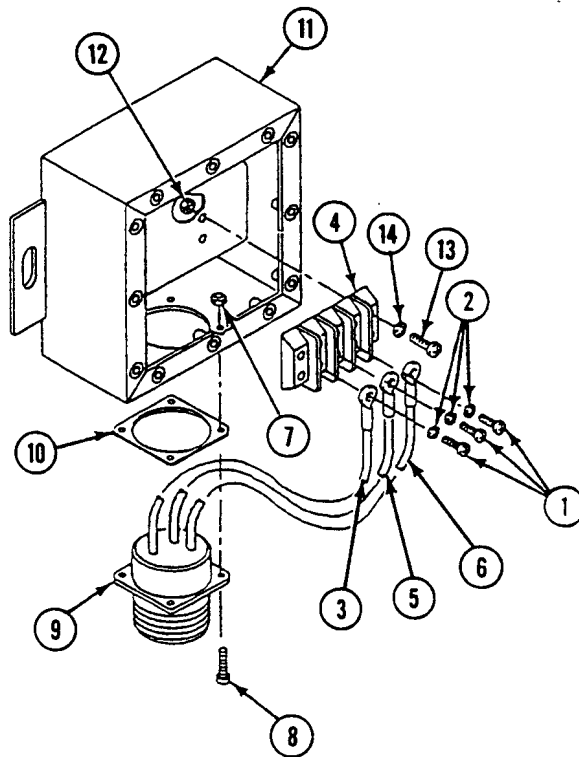
**Tag all wires before removal.**

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.



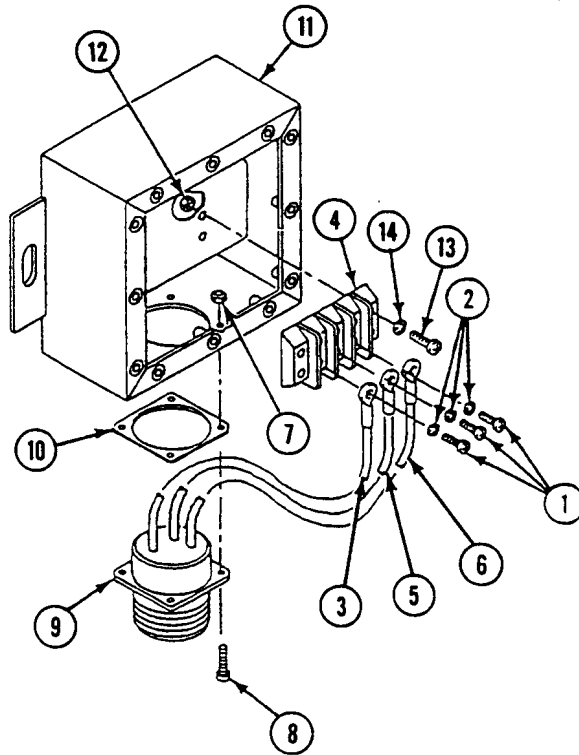
**DISASSEMBLY**

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**

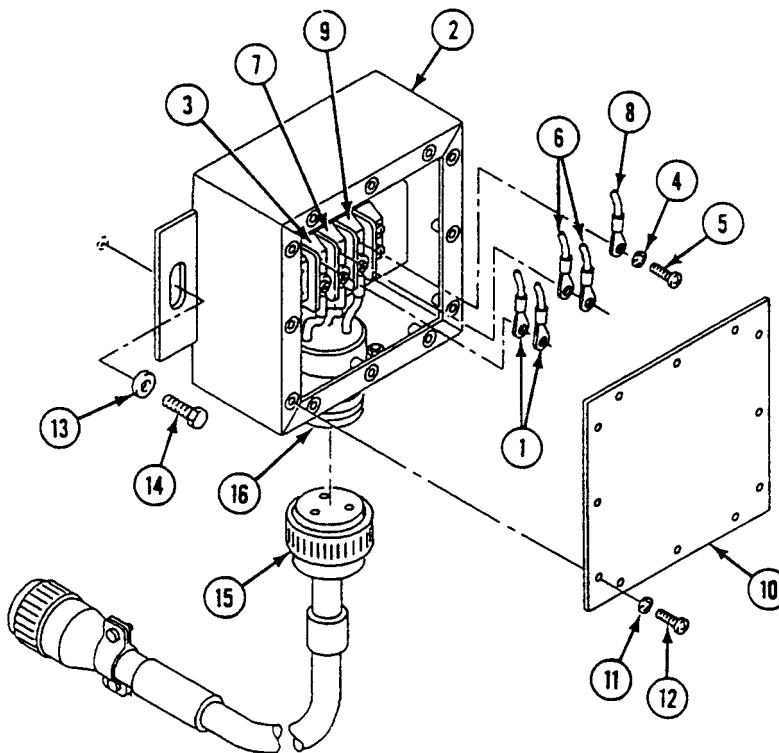
1. Install terminal block (4), four lockwashers (14), screws (13), and nuts (12) on power distribution box (11).
2. Install gasket (10), connector (9), four screws (8), and new locknuts (7) on power distribution box (11).
3. Install circuit 3 lead (6), lockwasher (2), and screw (1) on terminal 3 of terminal 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 circuit 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 0294 00).

**END OF TASK**

**REPLACE POWER ENTRY BOX ASSEMBLY A4 (M1068 ONLY)**

**0737 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0737 00-1).  
 Installation (page 0737 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10  
 Helper (H)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

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 0294 00)

Materials/Parts

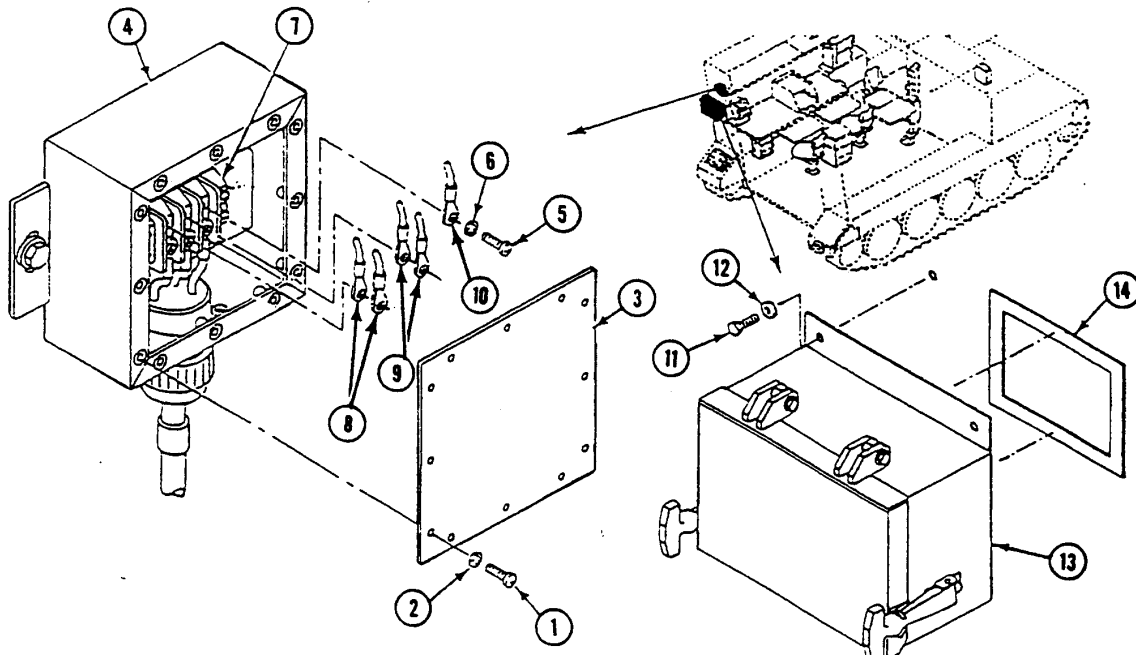
Adhesive (WP 0782 00, Item 3)  
 Lockwasher (12)

**REMOVAL**

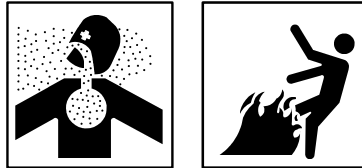
**NOTE**

**Tag all leads during removal for proper installation later.**

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.



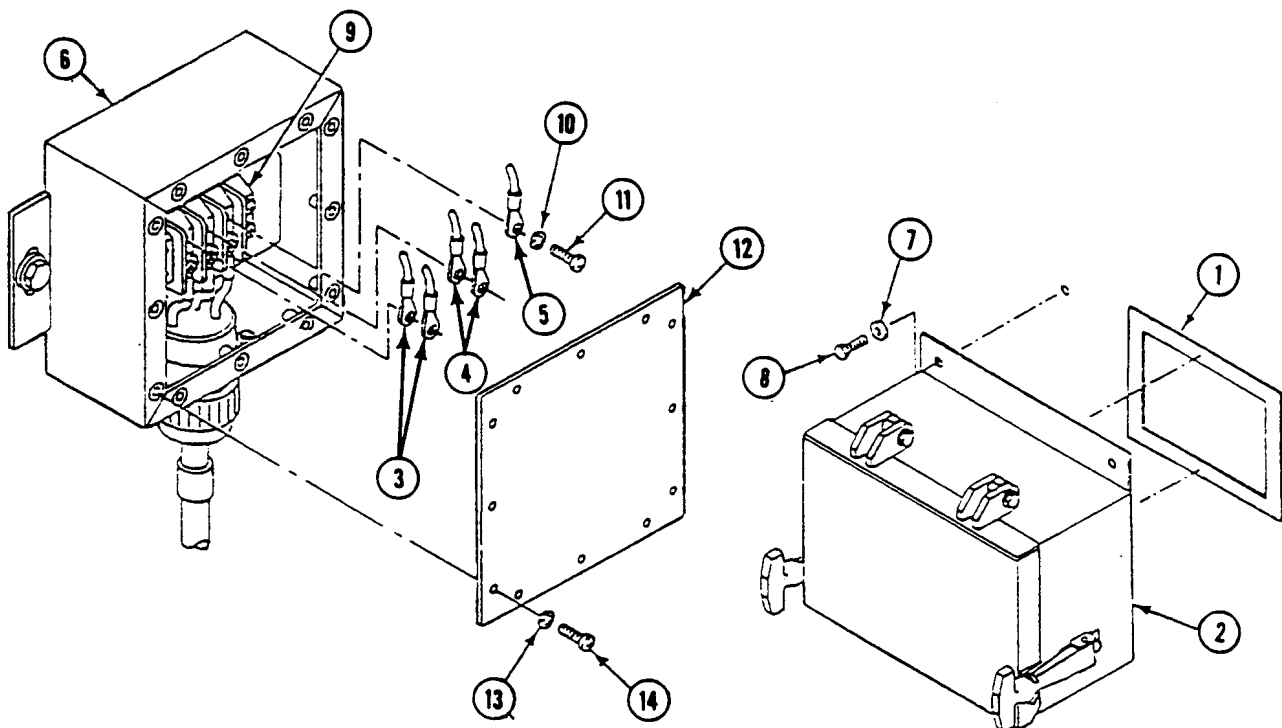
## INSTALLATION

**WARNING**

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

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

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 0294 00).

**END OF TASK**



**REPLACE FLUORESCENT LIGHT ASSEMBLIES (M1068 ONLY)**

**0738 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0738 00-1).  
 Installation (page 0738 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

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 0294 00)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Personnel Required

Power-Generation Equipment Repairer 52D10

References

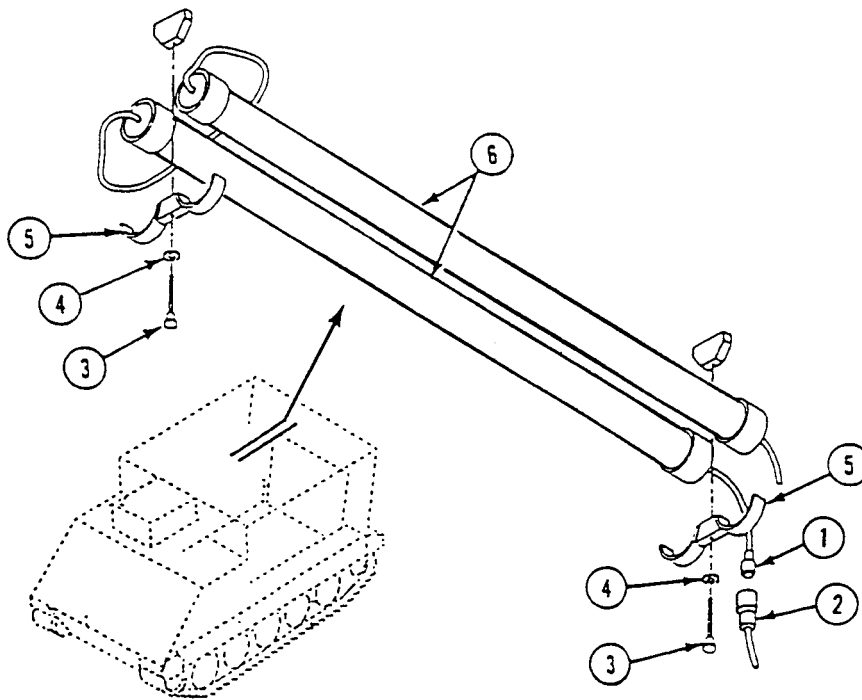
TM 10-5410-229-13&P

**REMOVAL**

**NOTE**

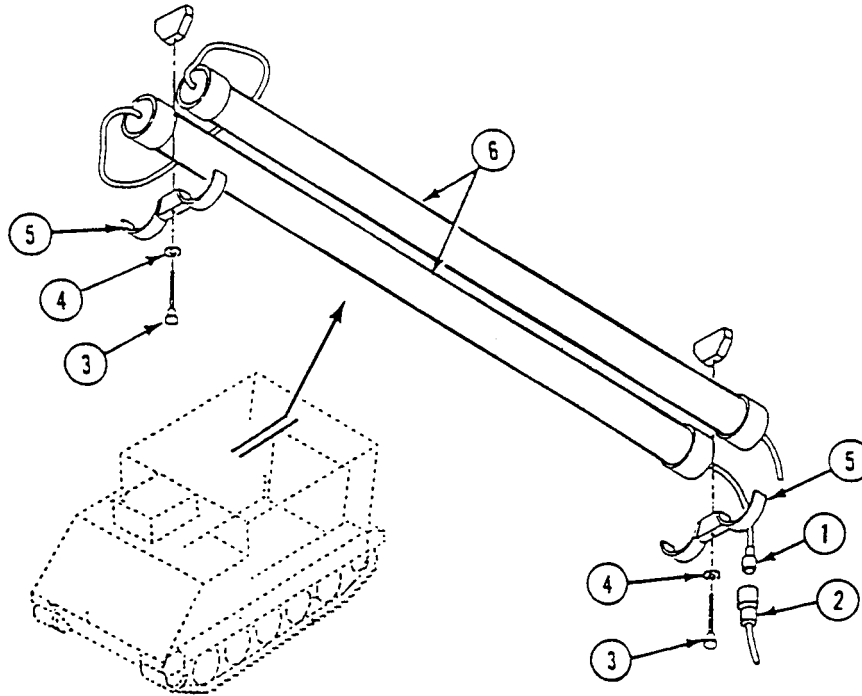
**For repair of fluorescent light assemblies, see TM 10-5410-229-13&P.**

1. Disconnect fluorescent light assembly electrical connector P1 (1) from cable W11 P2 (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 W11 P2 (2).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**

**REPLACE POWER DISTRIBUTION CABLE (W3) (M1068 ONLY)**

**0739 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0739 00-1).  
 Installation (page 0739 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

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

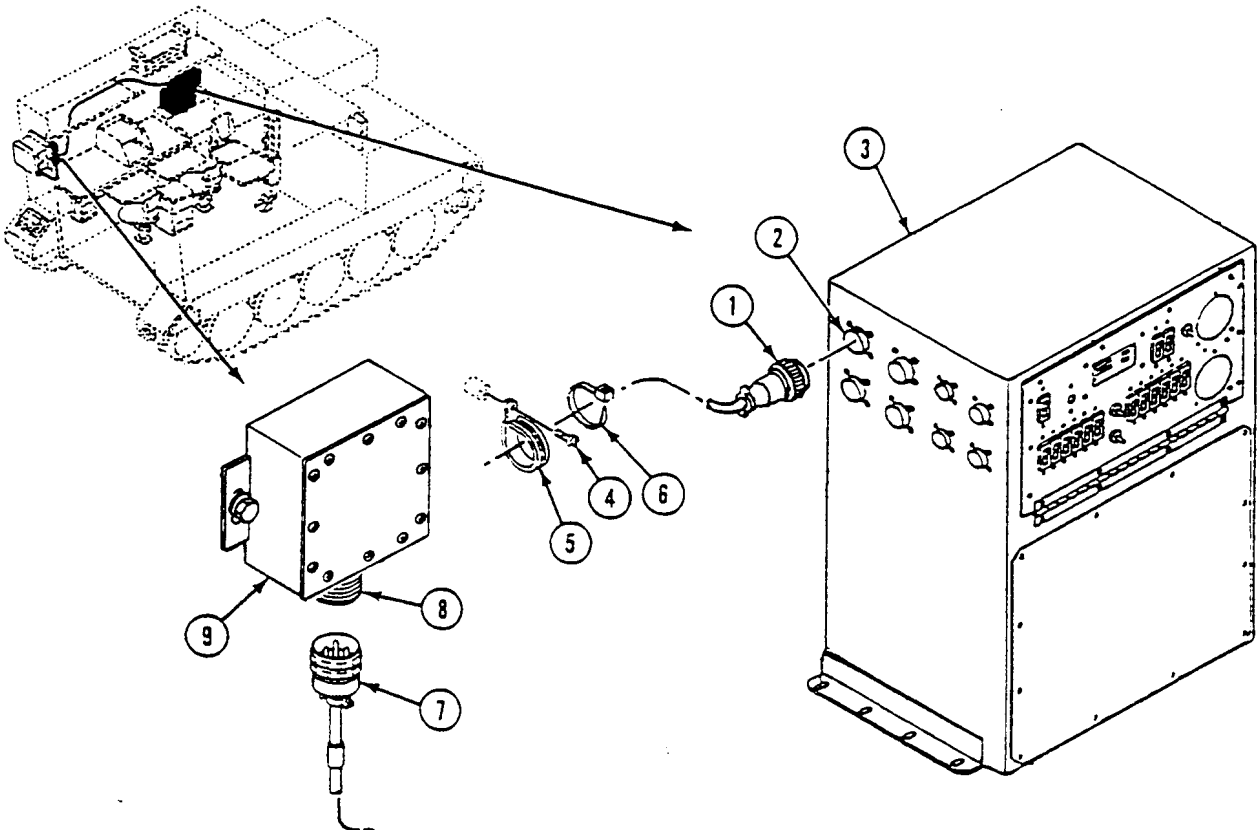
Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Tie strap (6)

**REMOVAL**

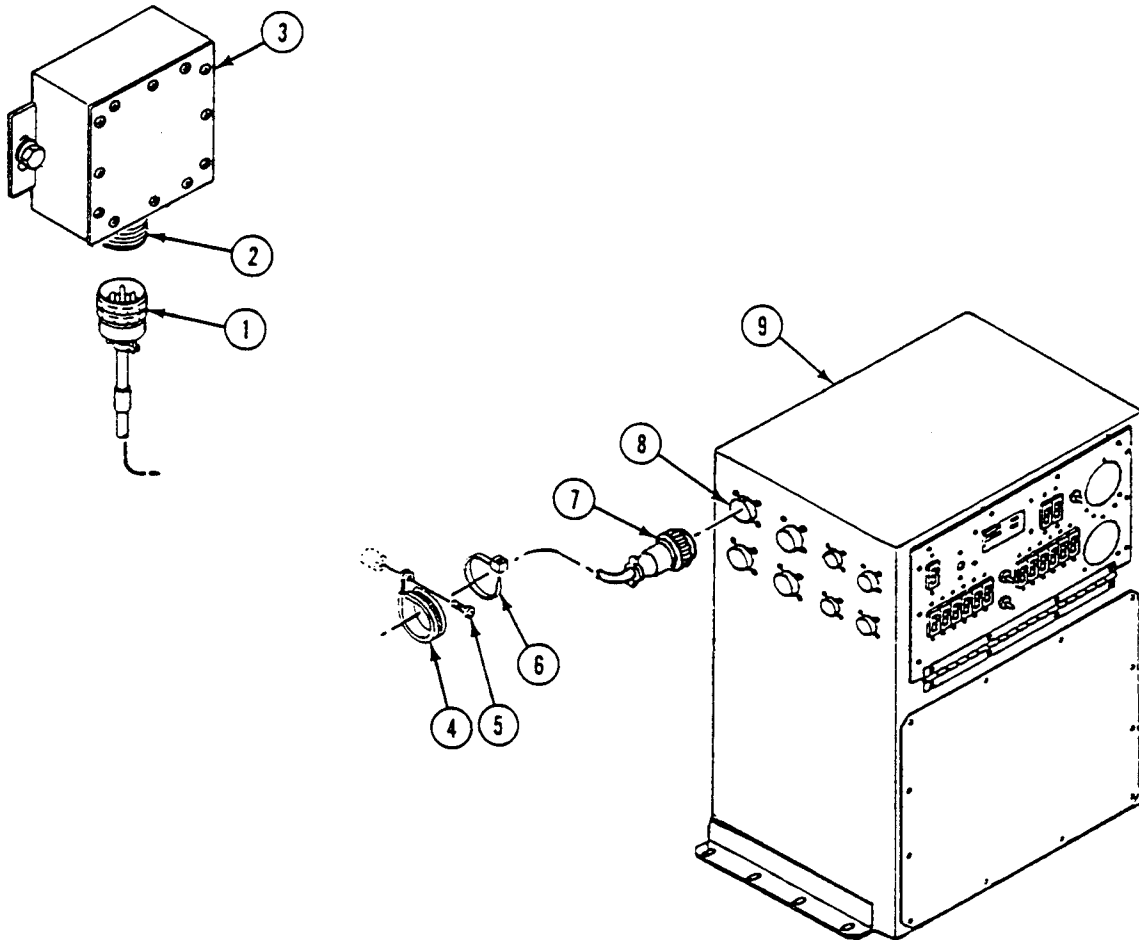
1. Disconnect W3 cable plug P3 (1) from jack J24 (2) on power control enclosure A1 (3).
2. Remove four screws (4) and clamps (5) from hull weldnut. Remove clamps (5) from harness W3.
3. Cut six tie straps (6). Discard tie straps.
4. Disconnect W3 cable plug P1 (7) from jack J1 (8) on power distribution 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 tie 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 0294 00).
2. Turn MASTER SWITCH to ON (see your -10). Check that electrical system works properly. See TM 11-7010-256-12&P.
3. Turn MASTER SWITCH to OFF (see your -10).

**END OF TASK**

---

**REPLACE DC BATTERY CABLE (W4) (M1068 ONLY)**

---

**0740 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0740 00-2).  
 Installation (page 0740 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)  
 Digital Multimeter (WP 0780 00, Item 43)  
 Electrical Tool Kit (WP 0780 00, Item 80)

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 0294 00)

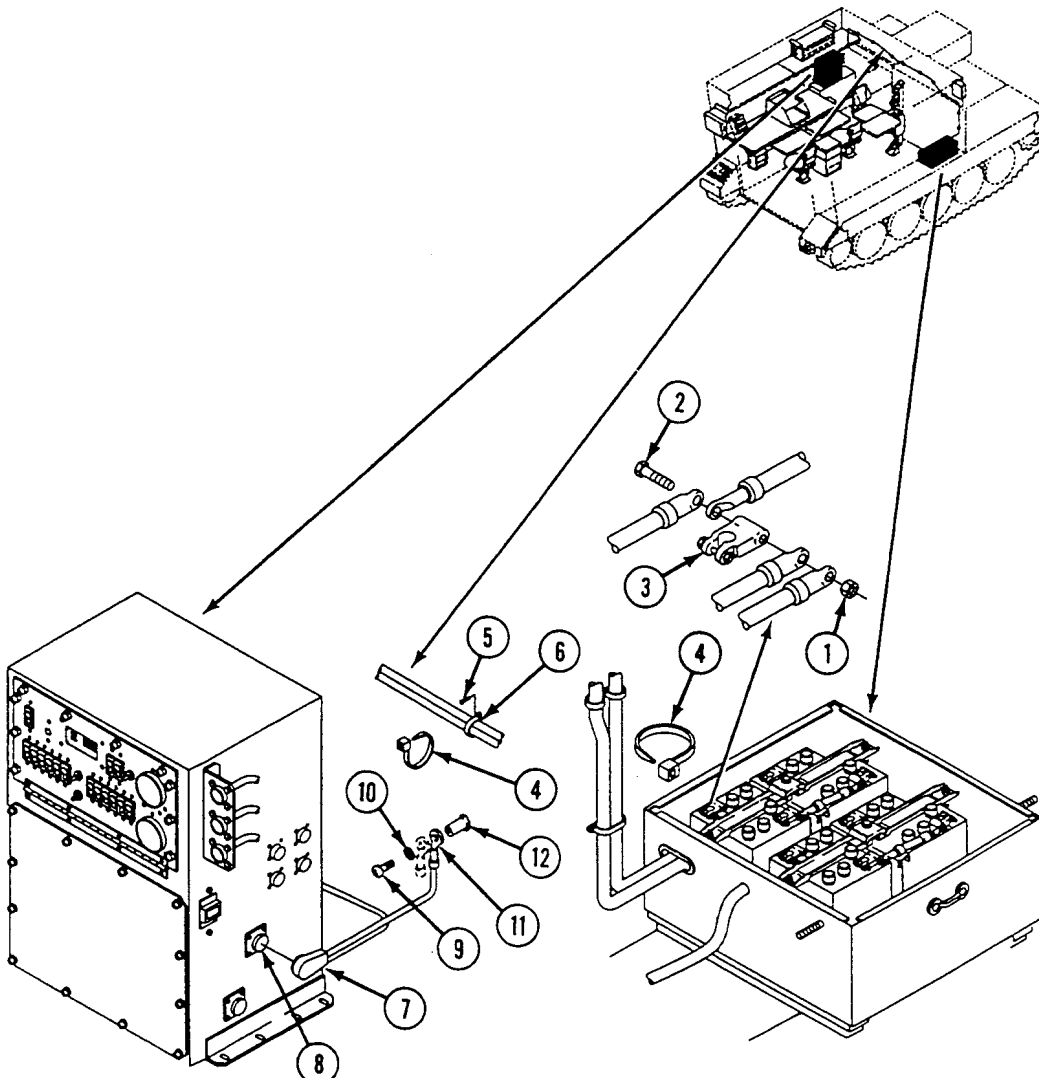
Materials/Parts

Lockwasher  
 Tie strap (8)

---

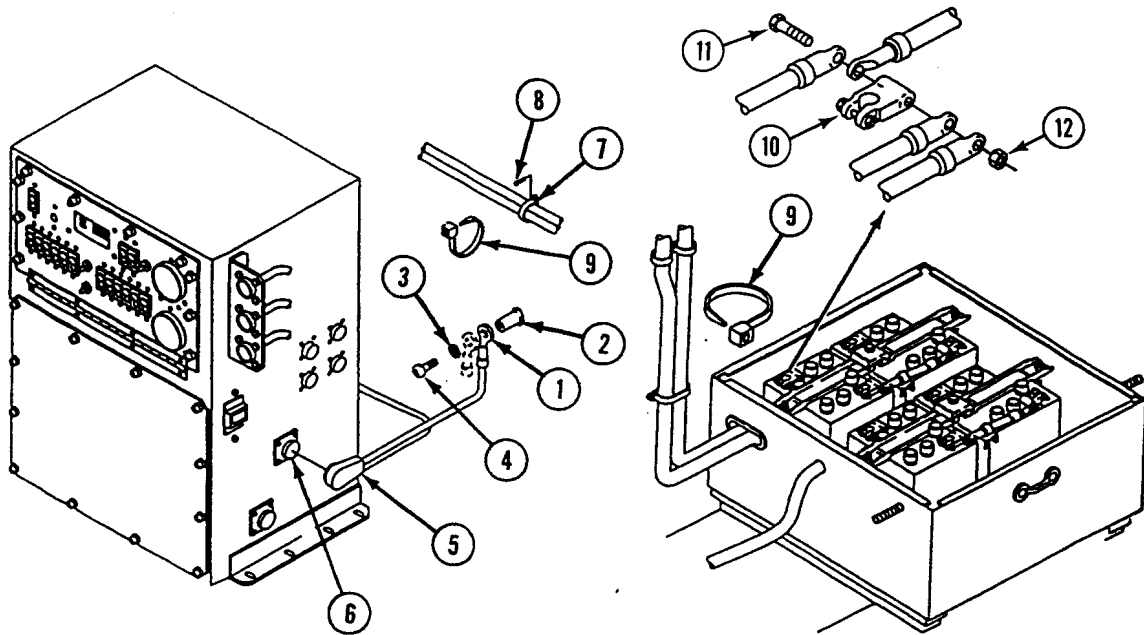
**REMOVAL**

1. Remove nut (1) and screw (2) and disconnect cable W4 E2 from positive battery terminal (3).
2. Remove and discard eight tie 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 W4 cable 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 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 0294 00).
2. Turn MASTER SWITCH to ON (see your -10). Check that electrical system works properly. See TM 11-7010-256-12&P.
3. Turn MASTER SWITCH to OFF (see your -10).

**END OF TASK**



---

**REPLACE/REPAIR INVERTER AC CABLE (W5) (M1068 ONLY)**

---

**0741 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0741 00-2).  
 Installation (page 0741 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

Digital Multimeter (WP 0780 00, Item 43)  
 Electrical Tool Kit (WP 0780 00, Item 80)  
 General Mechanic's Tool Kit (WP 0780 00, Item 29)

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 0294 00)

Materials/Parts

Lockwasher (10)

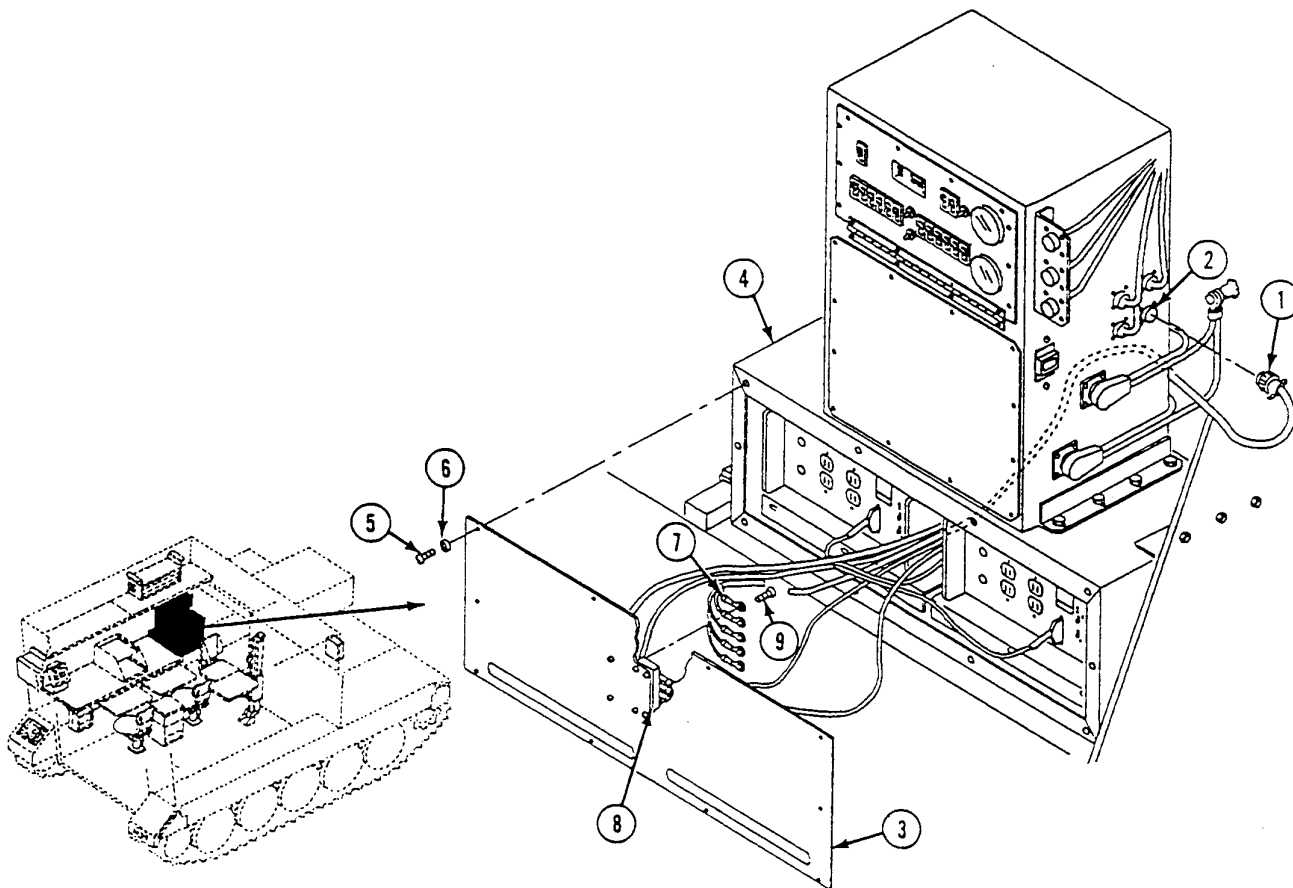
---

## REMOVAL

## NOTE

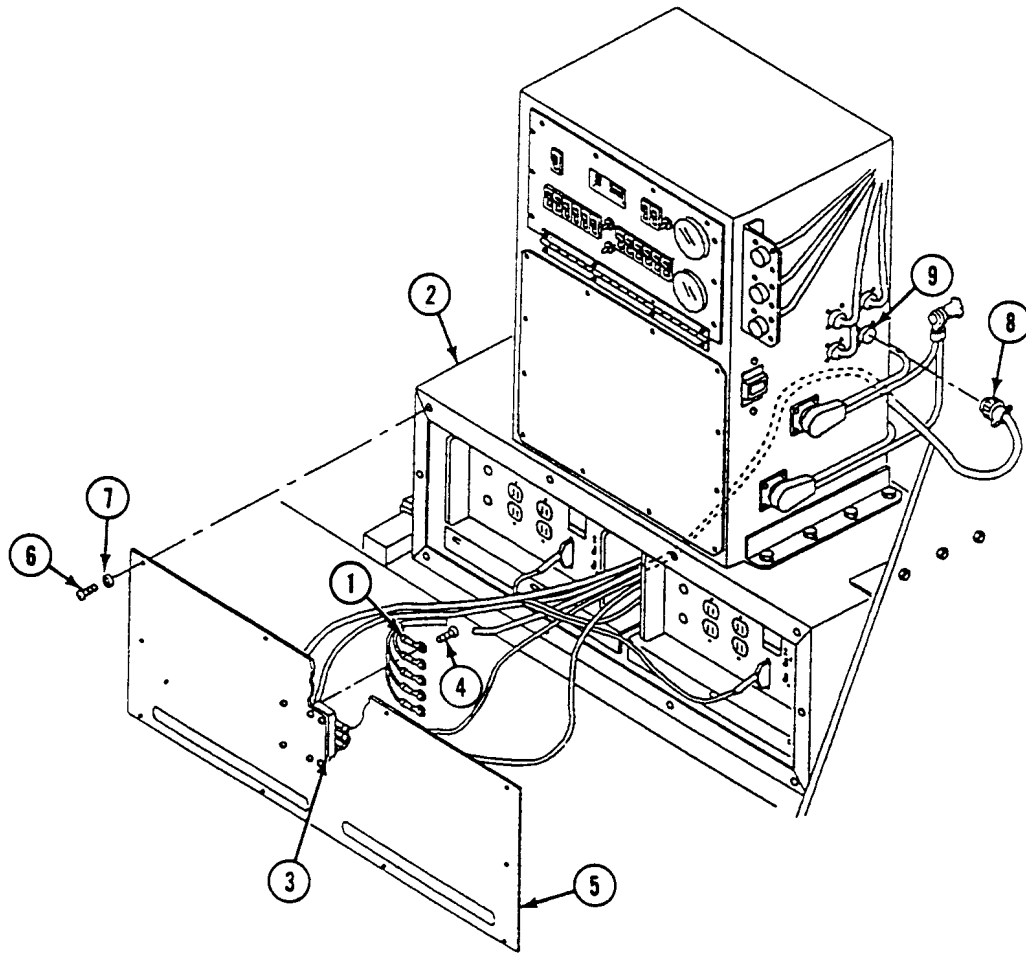
Tag all cables and leads before removal.

1. Disconnect cable W5 P6 (1) from power control box A1 jack J27 (2).
2. Remove faceplate (3) on inverter housing A2 (4) by removing ten 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 faceplate (5) to front of inverter housing A2 (1) using ten 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 0294 00).
2. Turn MASTER SWITCH to ON (see your -10). Check that electrical system works properly. See TM 11-7010-256-12&P.
3. Turn MASTER SWITCH to OFF (see your -10).

**END OF TASK**





**REPLACE INVERTER DC CABLE (W6) (M1068 ONLY)**

**0742 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0742 00-1).
- Installation (page 0742 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

- Digital Multimeter (WP 0780 00, Item 43)
- Electrical Repair Kit (WP 0780 00, Item 80)
- General Mechanic's Tool Kit (WP 0780 00, Item 29)

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 0294 00)

Materials/Parts

- Lockwasher (10)
- Lockwasher (1)

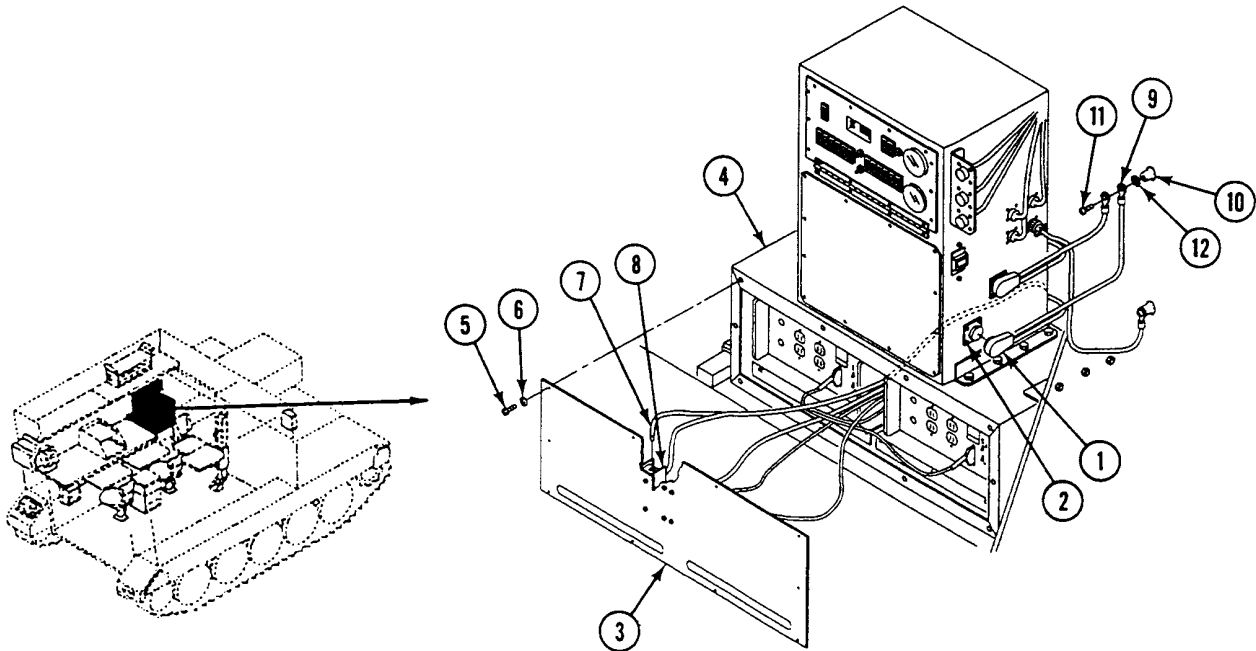
**REMOVAL**

1. Disconnect cable W6 plug (1) from power control box A1 jack J26 (2).
2. Remove faceplate (3) on inverter housing A2 (4) by removing ten 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**

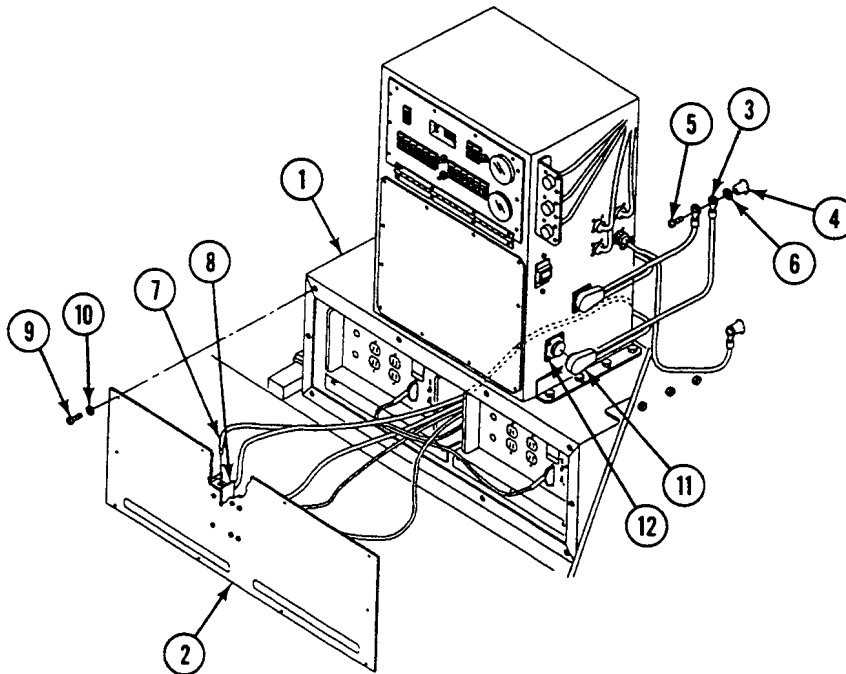
**Ground post is located on hull wall between power control box A1 and driver's station.**

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.



**REPLACE INVERTER DC CABLE (W6) (M1068 ONLY) — Continued****0742 00****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 faceplate (2) to front of inverter housing A2 (1) using ten 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 0294 00).
2. Turn MASTER SWITCH to ON (see your -10). Check that electrical system works properly. See TM 11-7010-256-12&P.
3. Turn MASTER SWITCH to OFF (see your -10).

**END OF TASK**

**REPLACE AC POWER EXTENSION CABLE (W7) (M1068 ONLY)**

**0743 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0743 00-1).  
 Installation (page 0743 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

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 0294 00)

Materials/Parts

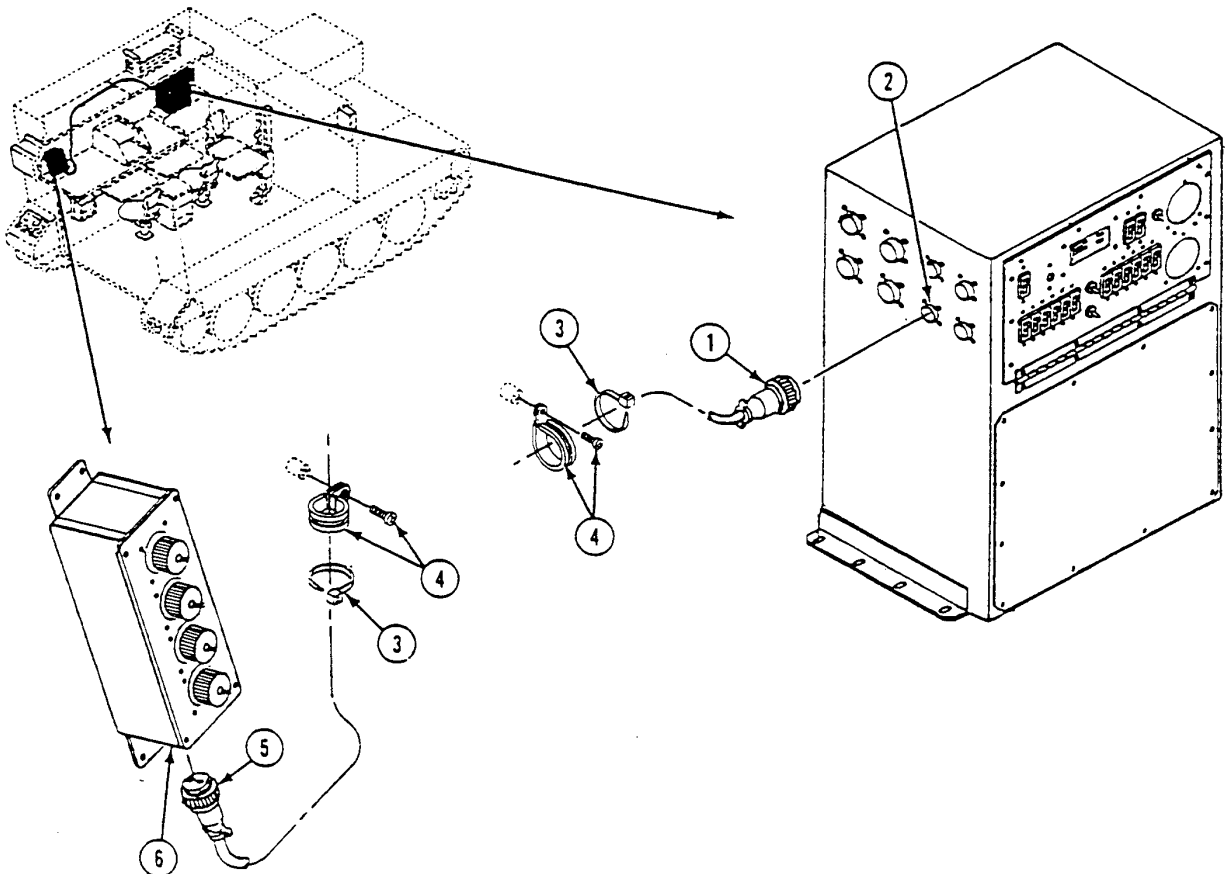
Tie strap (6)

Personnel Required

Power-Generation Equipment Repairer 52D10

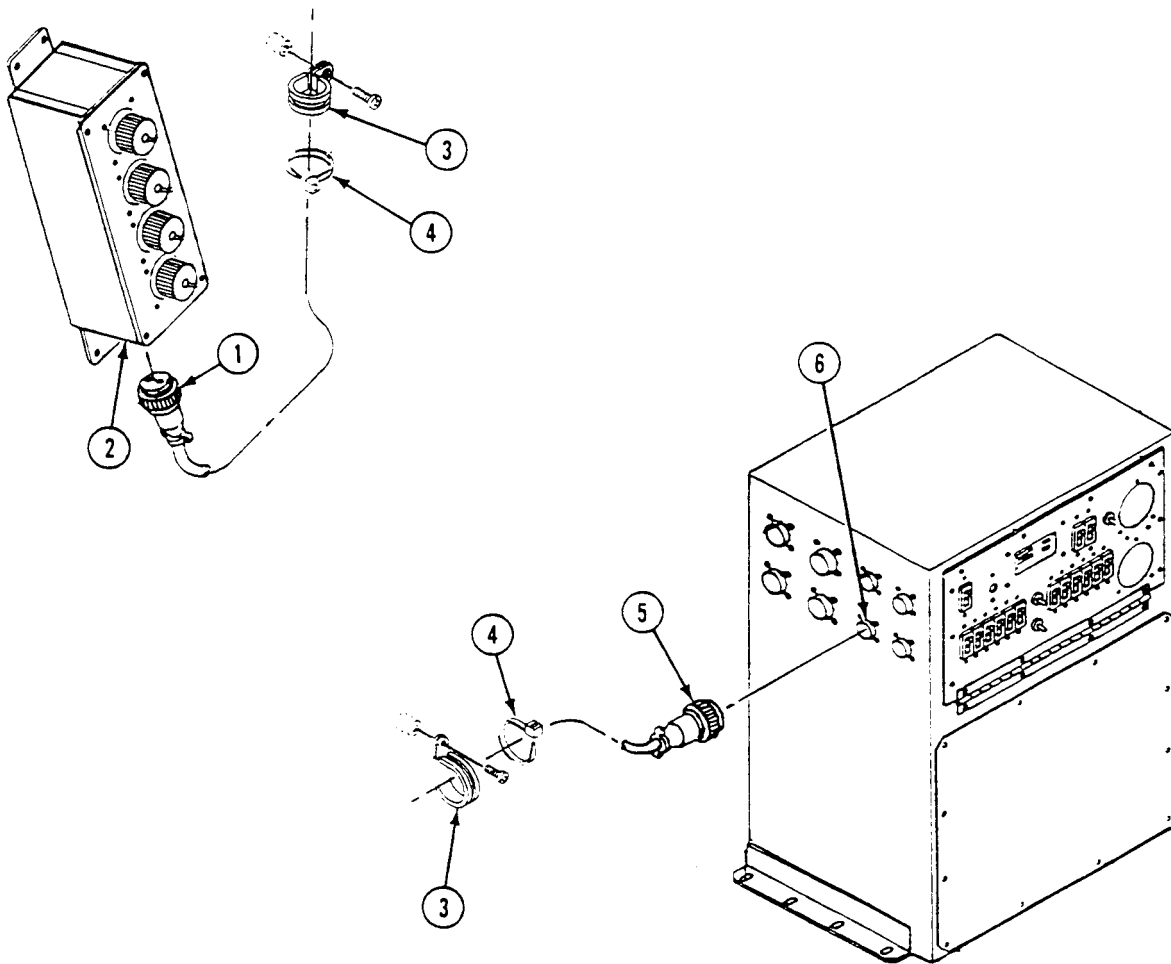
**REMOVAL**

1. Disconnect cable W7 plug P10 (1) from power control box A1 jack J30 (2).
2. Remove and discard six tie 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 tie 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 0294 00).
2. Turn MASTER SWITCH to ON (see your -10). Check that electrical system works properly. See TM 11-7010-256-12&P.
3. Turn MASTER SWITCH to OFF (see your -10).

**END OF TASK**

**REPLACE AC POWER EXTENSION CABLE (W8) (M1068 ONLY)**

**0744 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0744 00-1).  
 Installation (page 0744 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

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

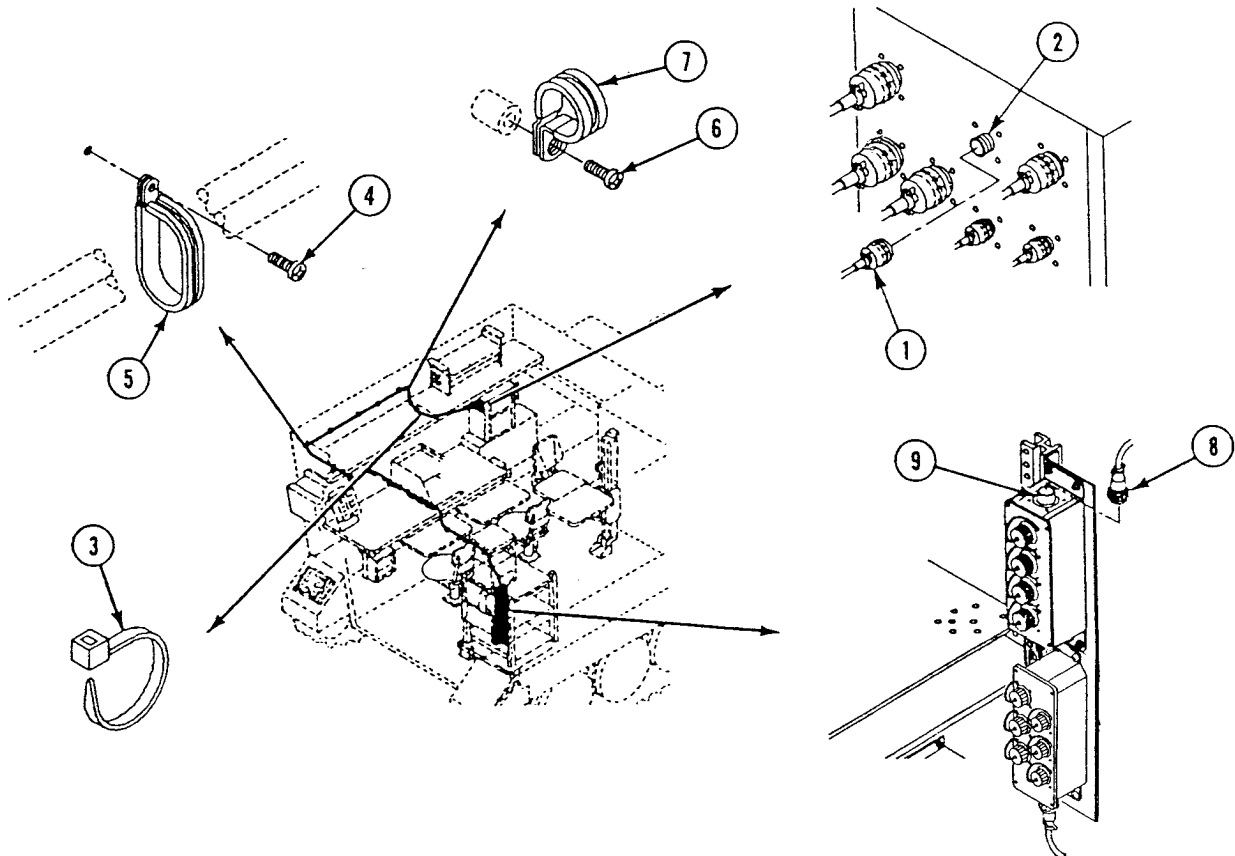
Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Tie strap (16)

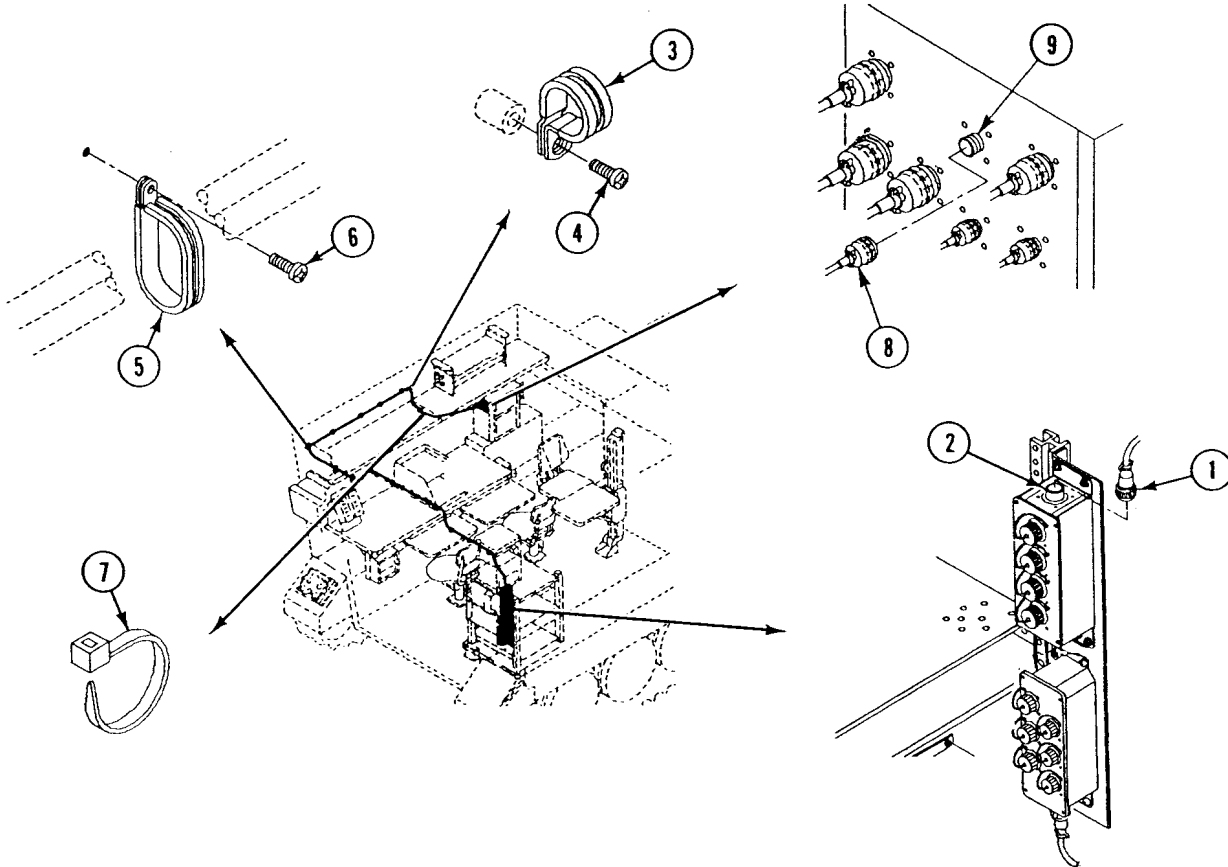
**REMOVAL**

1. Disconnect cable W8 plug P11 (1) from power control box A1 jack J31 (2).
2. Remove and discard 16 tie 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 tie straps (7).
6. Connect cable W8 plug P11 (8) to power control box A1 jack J31 (9).



**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Turn MASTER SWITCH to ON (see your -10). Check that electrical system works properly. See TM 11-7010-256-12&P.
3. Turn MASTER SWITCH to OFF (see your -10).

**END OF TASK**

**REPLACE CASCADE REMOTE HARNESS (M1068 ONLY)**

**0745 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0745 00-1).  
 Installation (page 0745 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

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 0294 00)

Materials/Parts

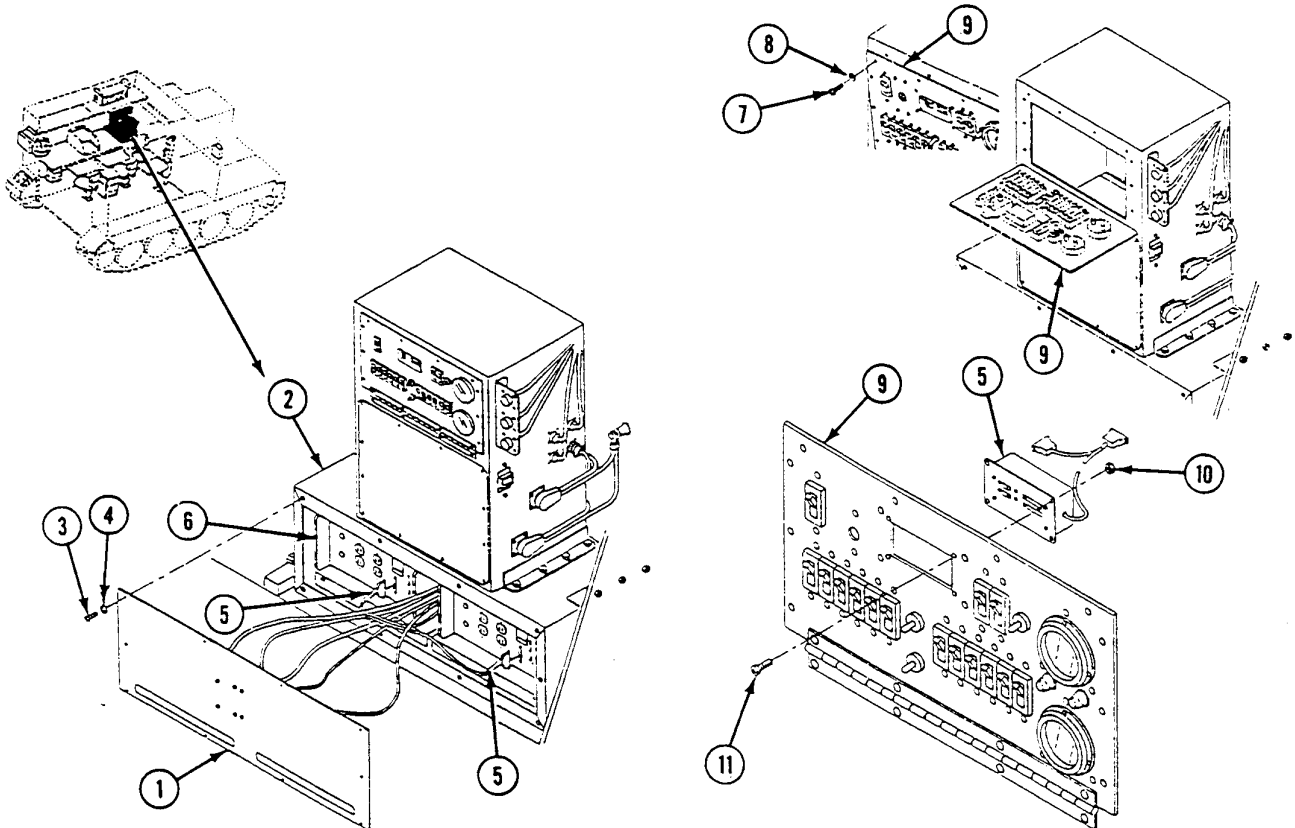
Locknut (4)

Lockwasher (10)

Lockwasher (10)

**REMOVAL**

1. Remove faceplate (1) on inverter housing A2 (2) by removing ten screws (3) and lockwashers (4). Discard lockwashers.
2. Loosen captive screws on connectors and disconnect RP1 harness (5) from inverters (6).
3. Remove ten 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.



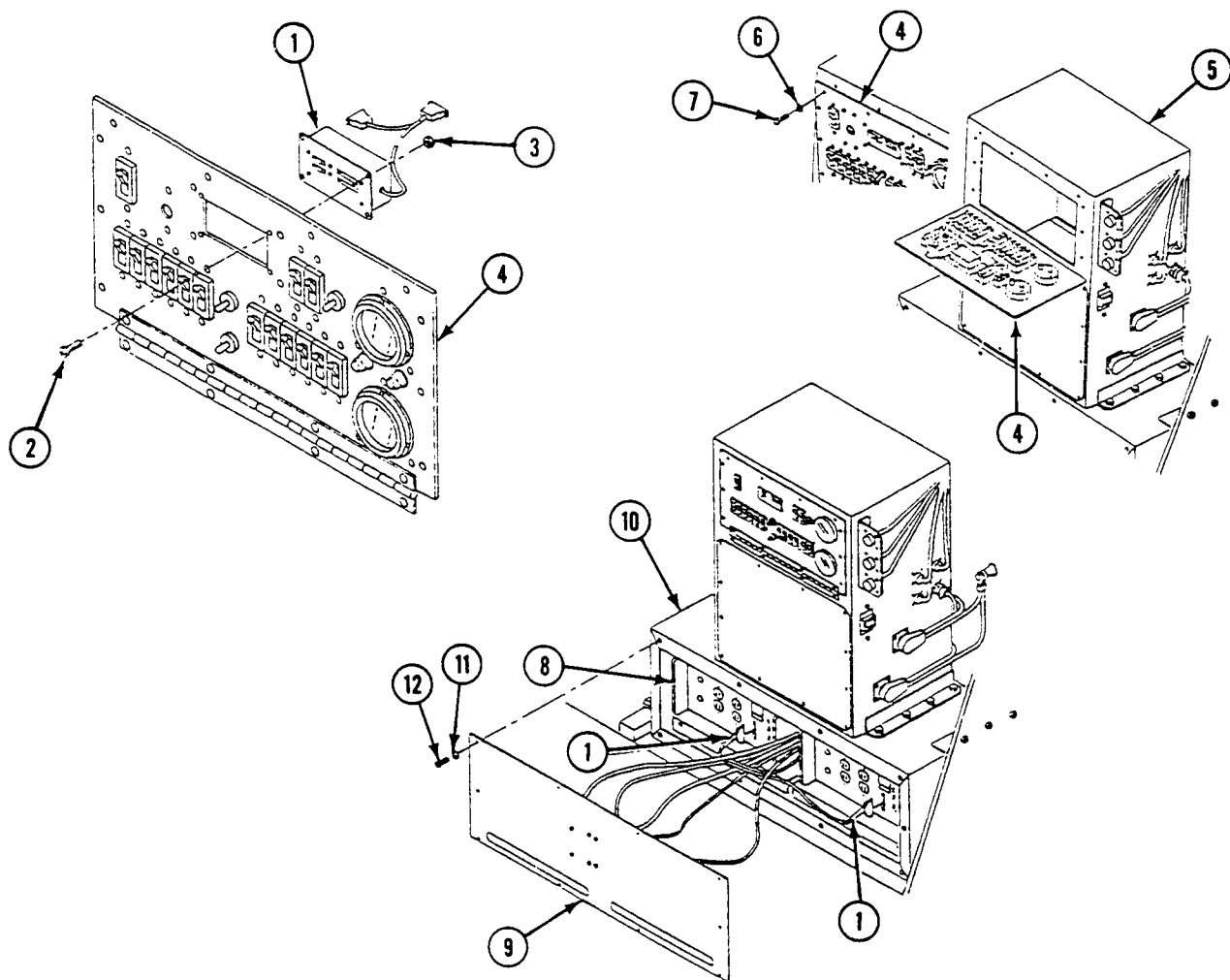


**REPLACE CASCADE REMOTE HARNESS (M1068 ONLY) — Continued**

0745 00

**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 ten new lockwashers (6) and screws (7).
3. Connect RP1 harness (1) to front of inverters (8). Tighten captive screws on connectors.
4. Install faceplate (9) on front of inverter housing A2 (10) with ten new lockwashers (11) and screws (12).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**

**REPLACE DC POWER EXTENSION CABLE (W10) (M1068 ONLY)**

**0746 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0746 00-1).  
 Installation (page 0746 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

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

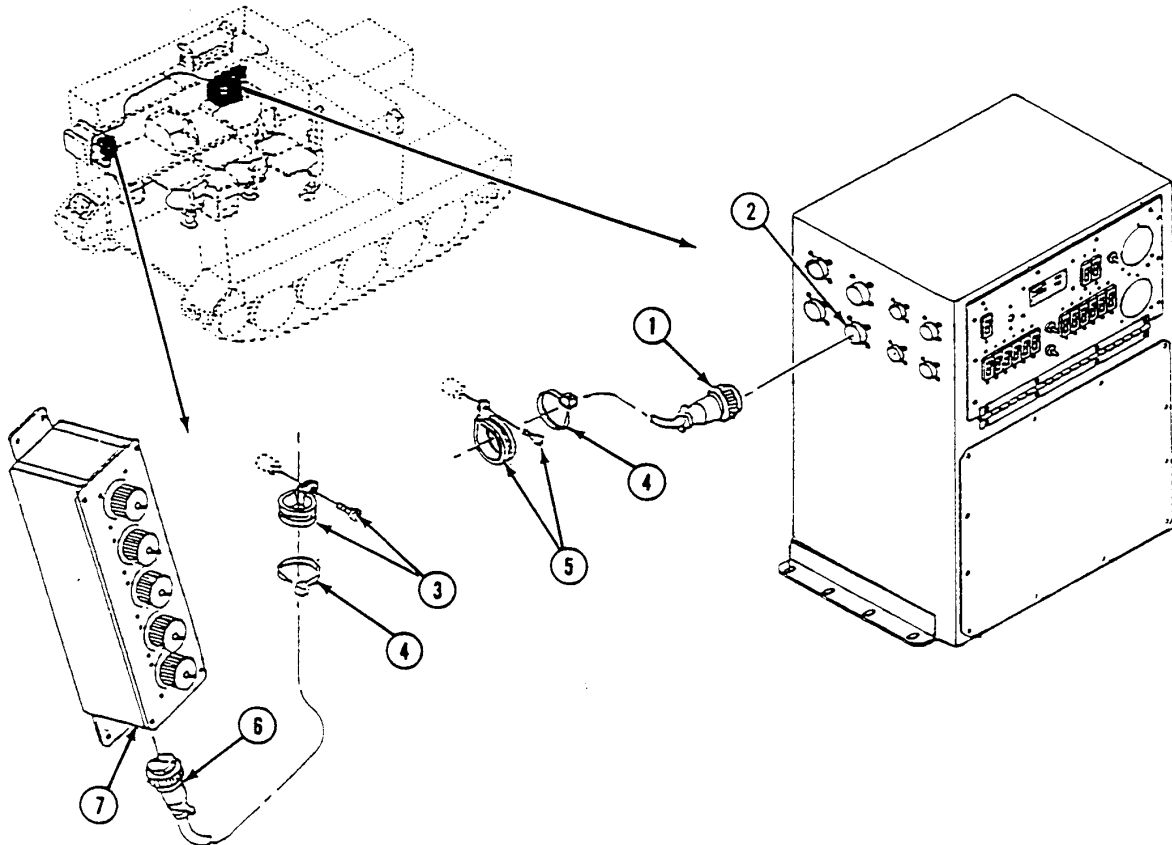
Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Tie strap (6)

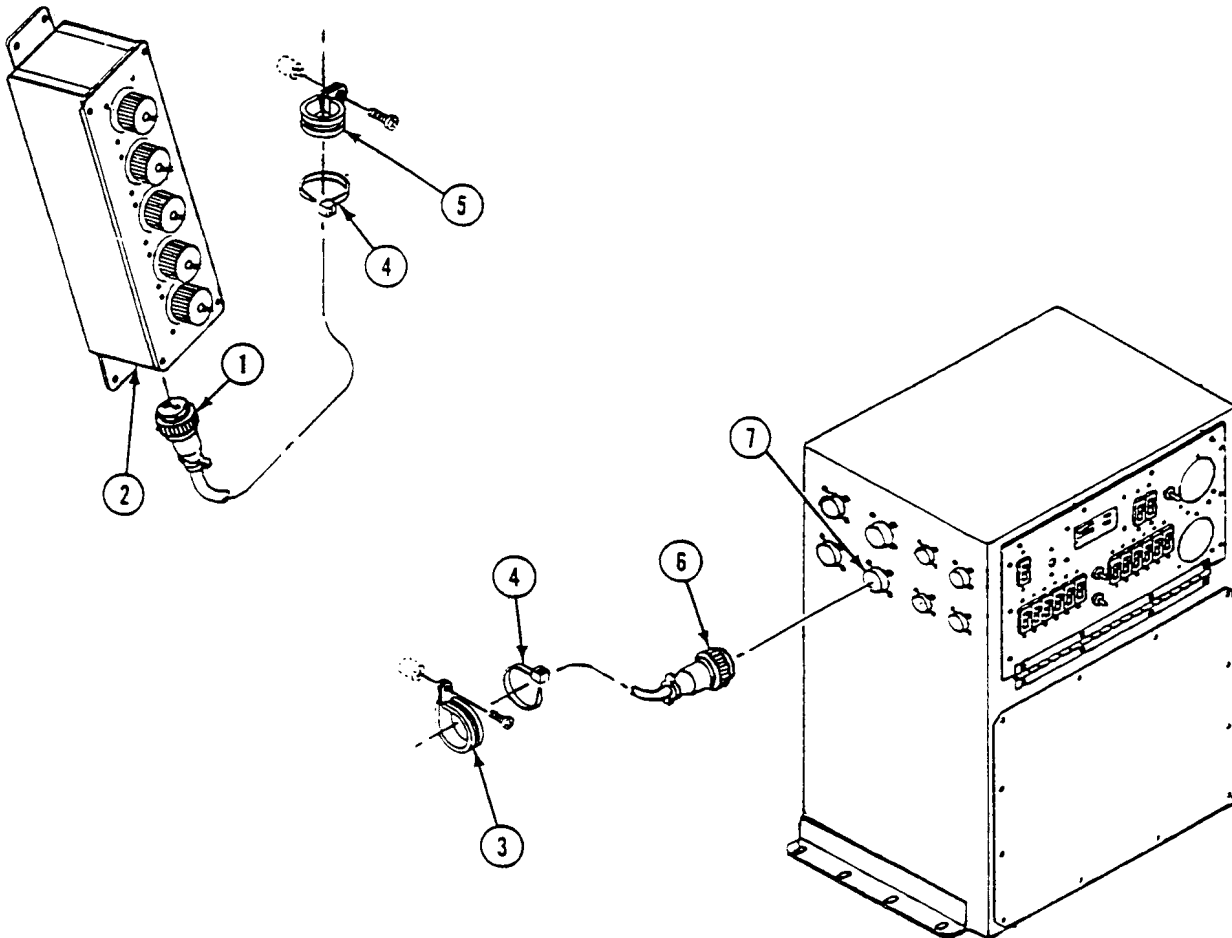
**REMOVAL**

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 tie 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 tie 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 0294 00).
2. Turn MASTER SWITCH to ON (see your -10). Check that electrical system works properly. See TM 11-7010-256-12&P
3. Turn MASTER SWITCH to OFF (see your -10).

**END OF TASK**

**REPLACE AC LIGHT CABLE (W11) (M1068 ONLY)**

**0747 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0747 00-1).  
 Installation (page 0747 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

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

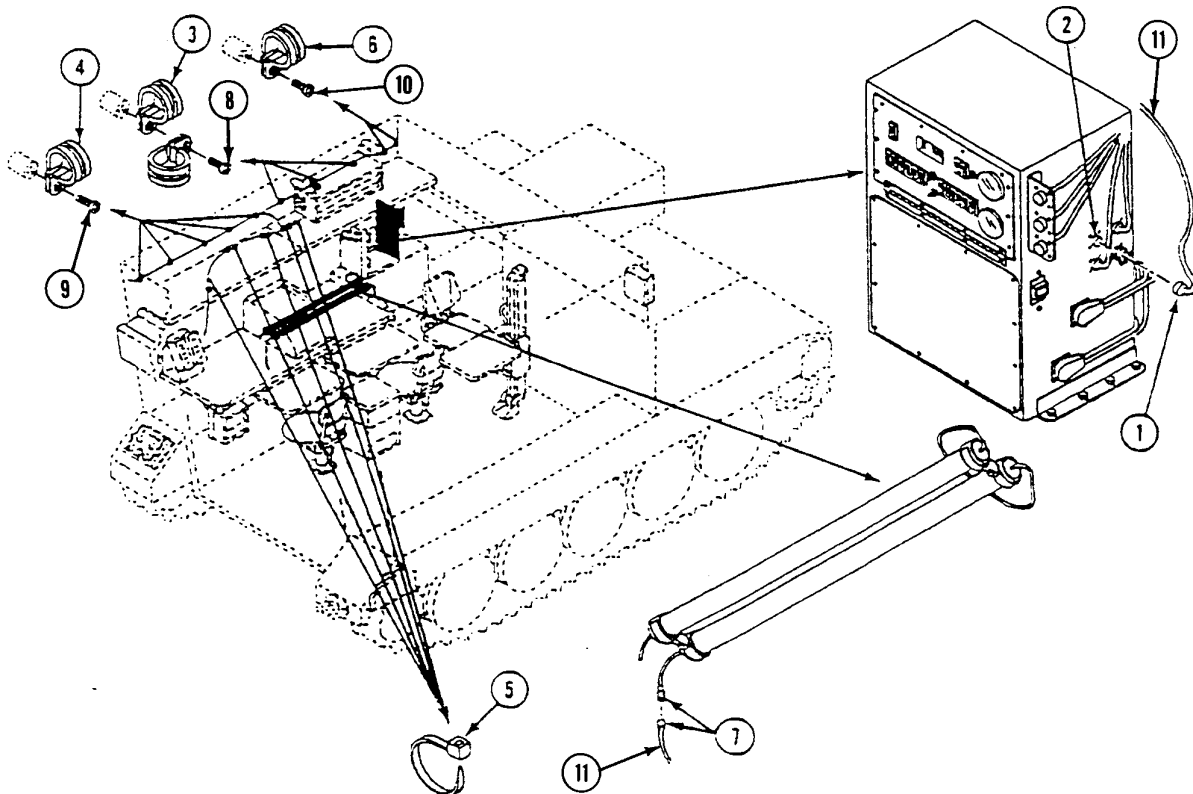
Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Tie strap (5)

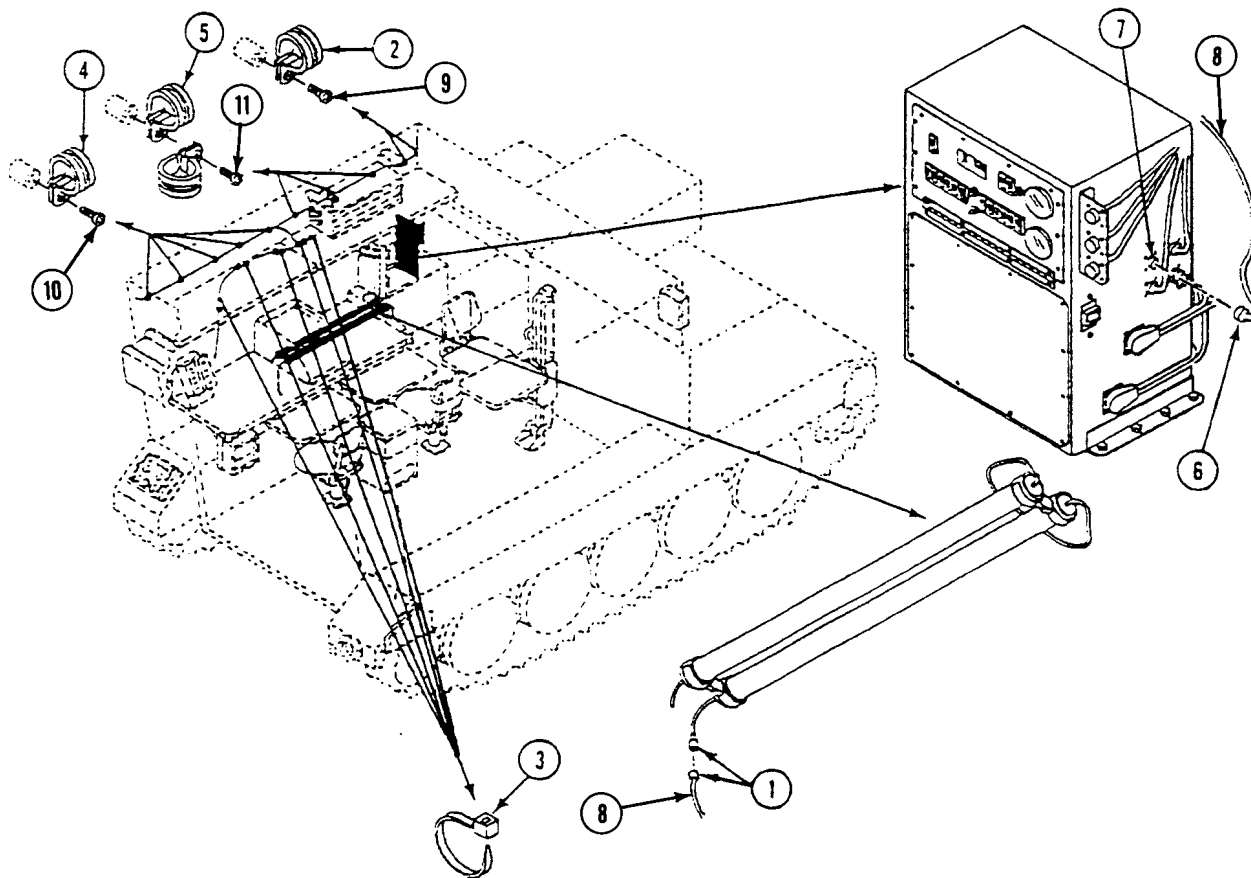
**REMOVAL**

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 tie straps (5).
5. Remove two screws (10) and loop clamps (6).
6. Disconnect cable W11 plug P2 (11) from AC light plug P1 (7).
7. Remove cable W11 (12) from carrier.



**INSTALLATION**

1. Install cable W11 (8) in carrier.
2. Connect cable W11 plug P2 (8) 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 tie 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 0294 00).
2. Turn MASTER SWITCH to ON (see your -10). Check that electrical system works properly. See TM 11-7010-256-12&P
3. Turn MASTER SWITCH to OFF (see your -10).

**END OF TASK**

**REPLACE GROUND STRAP (W12) (M1068 ONLY)**

**0748 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0748 00-1).
- Installation (page 0748 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

Lockwasher

Lockwasher

Personnel Required

Power-Generation Equipment Repairer 52D10

Equipment Condition

Engine stopped (see your -10)

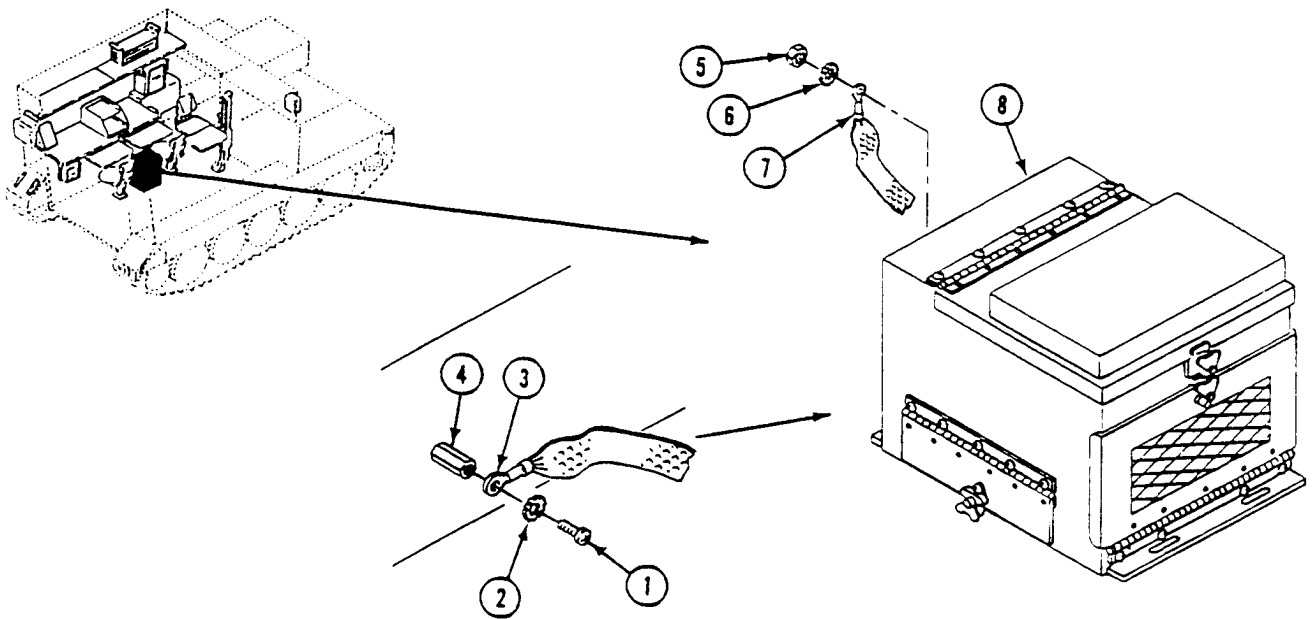
Carrier blocked (see your -10)

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

Battery ground lead disconnected (WP 0294 00)

**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.

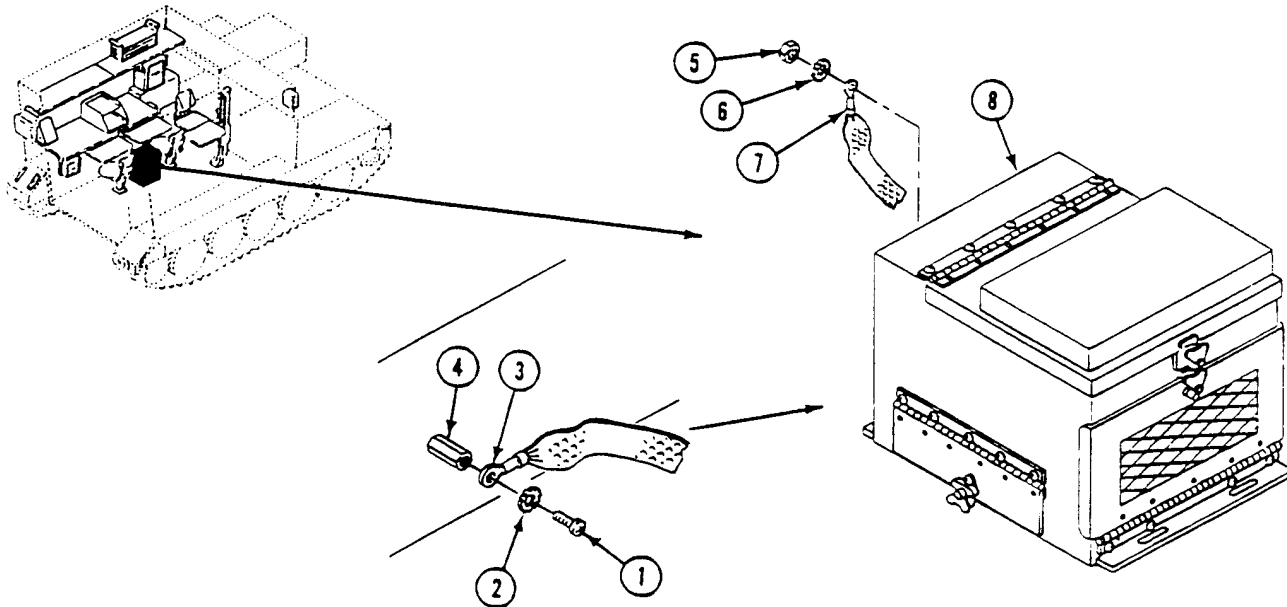


**REPLACE GROUND STRAP (W12) (M1068 ONLY) — Continued**

0748 00

**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 0294 00).
2. Turn MASTER SWITCH to ON (see your -10). Check that electrical system works properly. See TM 11-7010-256-12&P.
3. Turn MASTER SWITCH to OFF (see your -10).

**END OF TASK**

**REPLACE HARNESS W32 (M1068 ONLY)**

**0749 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0749 00-1).  
 Installation (page 0749 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Disconnect all external power (TM 11-7010-256-12&P)

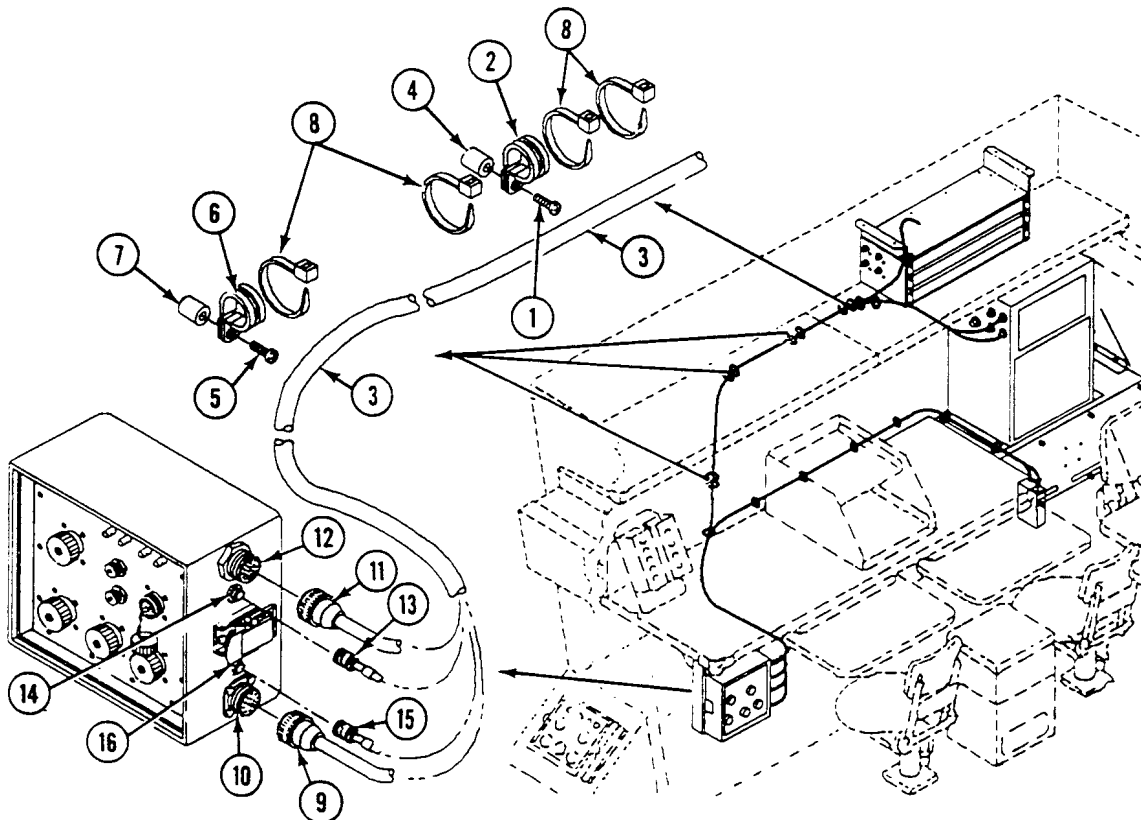
Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Tie strap (11)

**REMOVAL**

1. Remove screw (1) and clamp (2) from W32 harness (3) and weldnut (4).
2. Remove three screws (5) and clamps (6) from W32 harness (3) and weldnuts (7).
3. Remove six tie straps (8) from W32 harness (3). Discard tie 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).

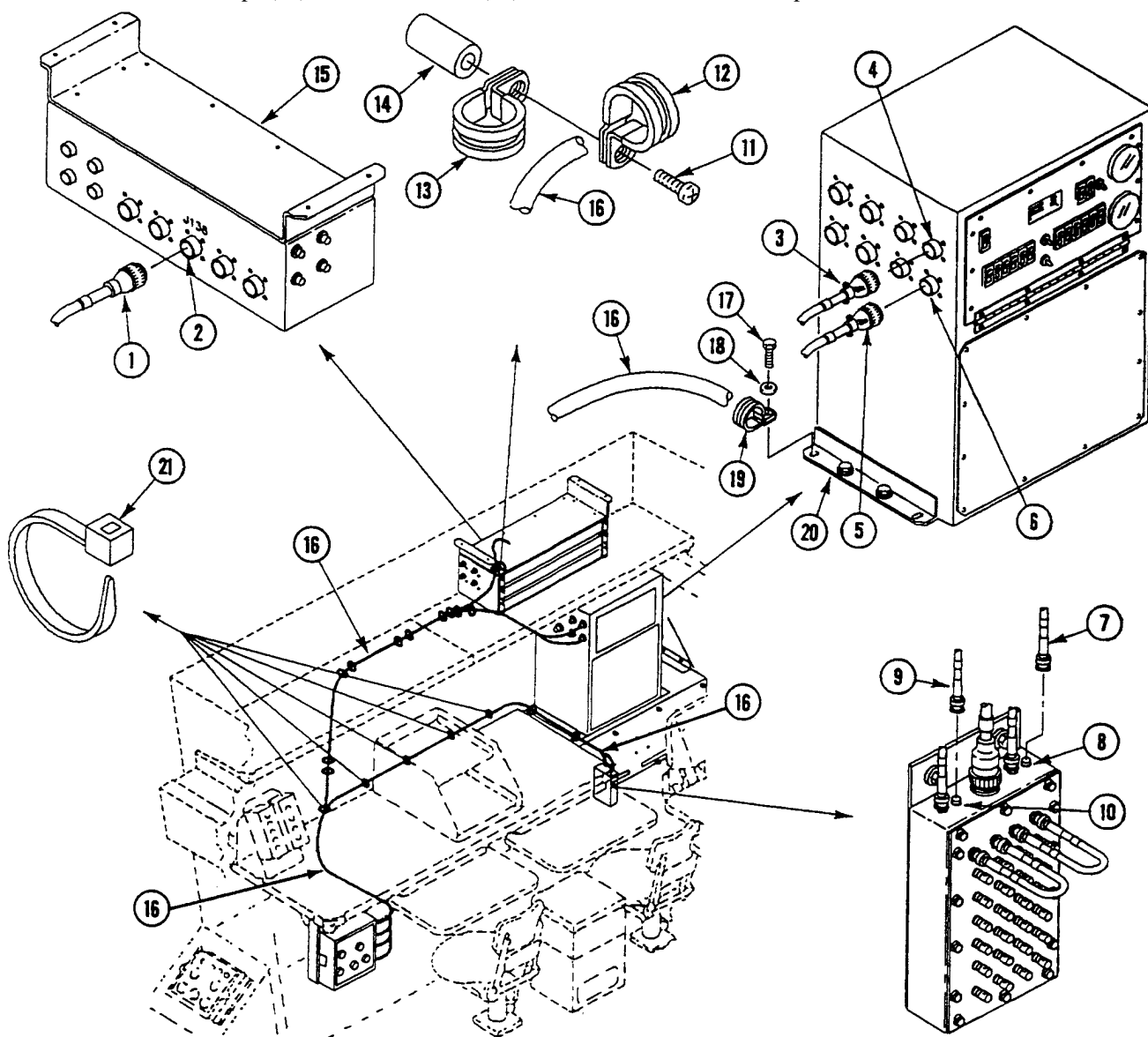




REPLACE HARNESS W32 (M1068 ONLY) — Continued

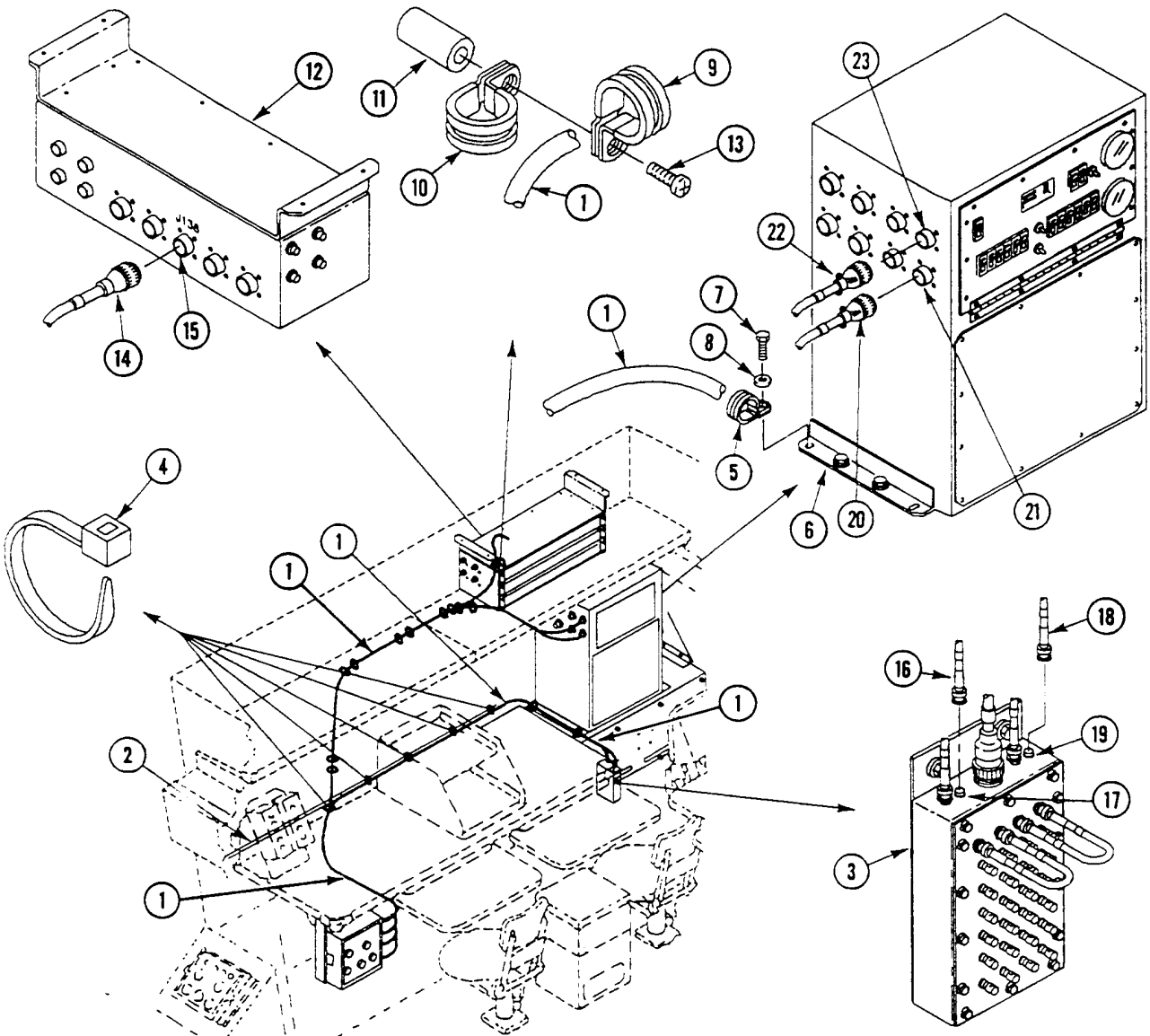
0749 00

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 tie straps (21) and W32 harness (16) from carrier. Discard tie straps.



**INSTALLATION**

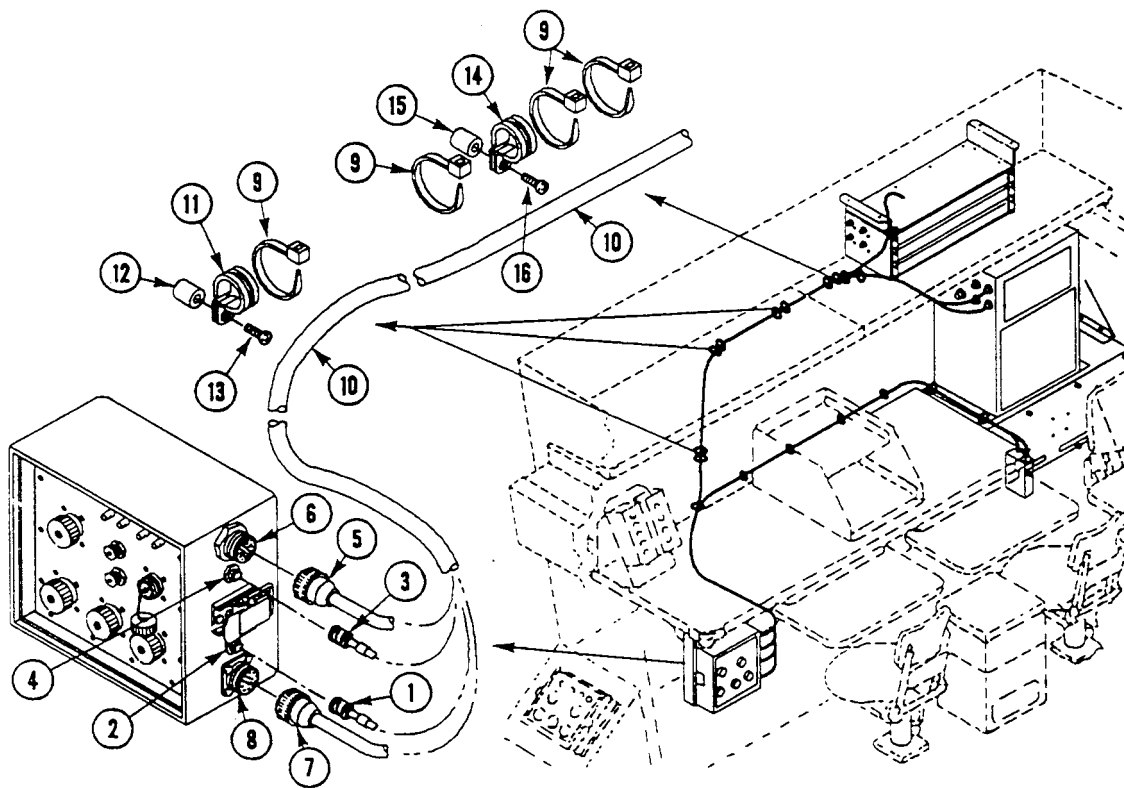
1. Route branch of W32 harness (1) along fuel line (2) to data panel assembly A13 (3). Secure W32 harness with five new tie straps (4).
2. Install two clamps (5) on W32 harness (1) and secure to power control enclosure A1 (6) with two screws (7) and washers (8).
3. Install clamp (9) on W32 harness (1) and secure clamps (9) and (10) to weldnut (11) below patch panel box A10 (12) with screw (13).
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 (M1068 ONLY) — Continued**

0749 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 tie 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 0294 00).

**END OF TASK**

**REPLACE CABLE W35, CABLE W28, AND CABLE ADAPTER (M1068 ONLY)**

**0750 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0750 00-1).  
 Installation (page 0750 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

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

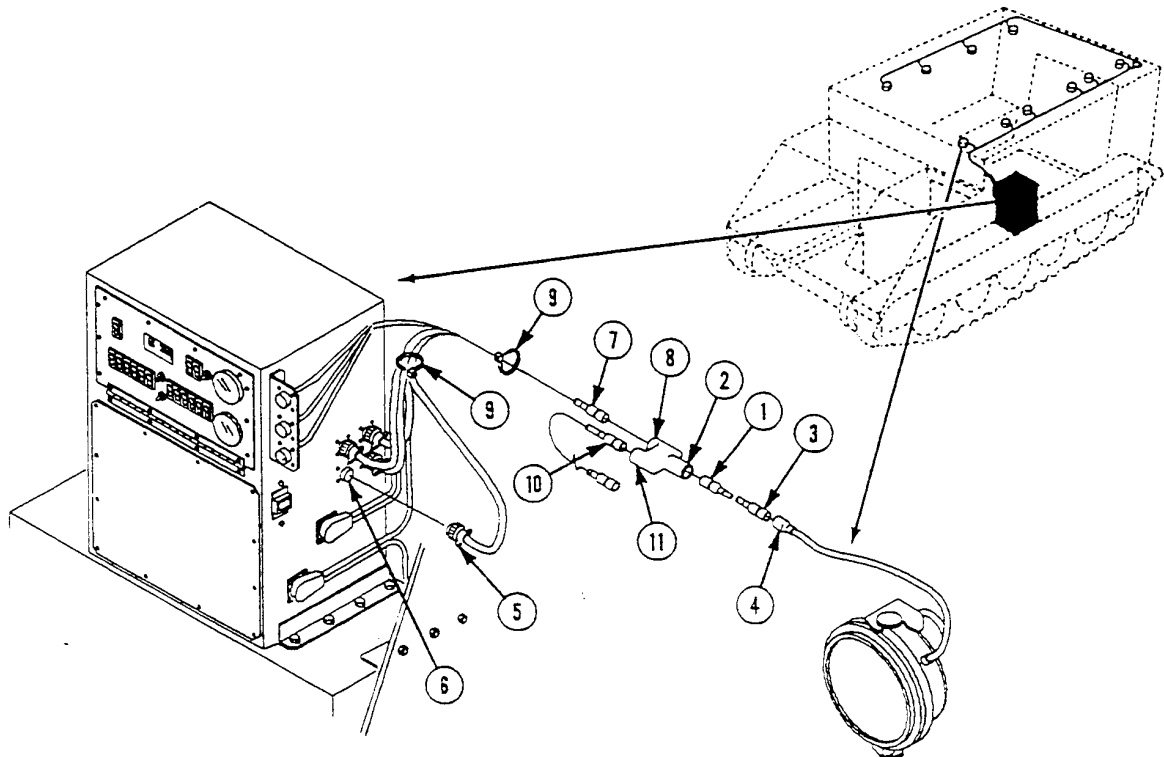
Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Tie strap (5)

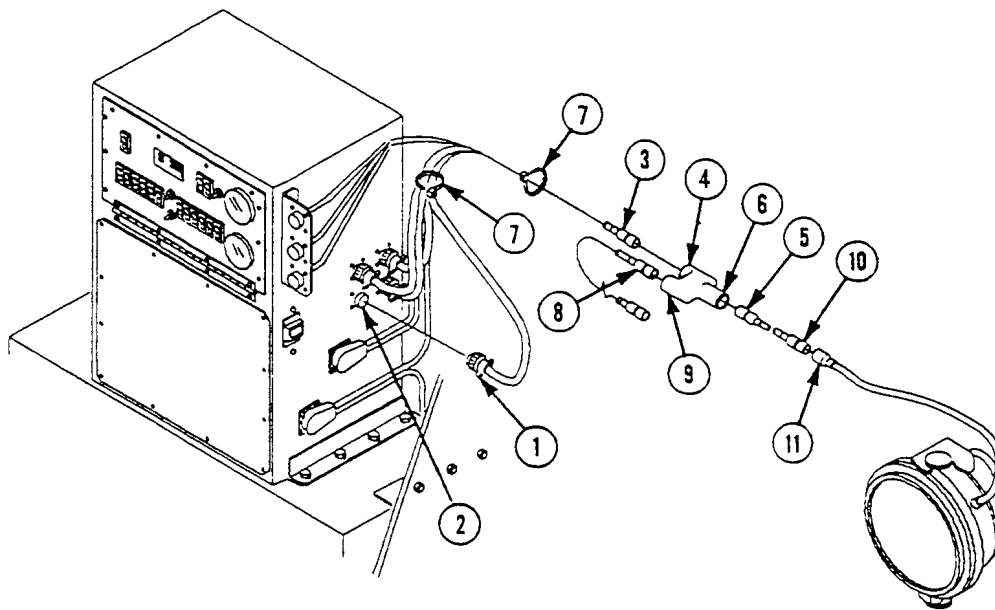
**REMOVAL**

1. Disconnect cable plug W28 P1 (1) from connector adapter plug T1 P1 (2).
2. Disconnect cable plug W28 P2 (3) from circuit 38B lead (4).
3. Disconnect cable plug W35 P9 (5) from power control enclosure jack A1 J29 (6).
4. Disconnect cable plug W35 P1 (7) from connector adapter plug T1 P2 (8).
5. Remove five tie straps (9) and cable W35 from carrier. Discard tie straps.
6. Disconnect circuit 38B lead (10) from connector adapter plug T1 P3 (11).



**INSTALLATION**

1. Connect cable plug W35 P9 (1) to power control enclosure jack A1 J29 (2).
2. Connect cable plug W35 P1 (3) to connector adapter plug T1 P2 (4).
3. Connect cable plug W28 P1 (5) to connector adapter plug T1 P1 (6).
4. Secure cable W35 with five new tie straps (7).
5. Connect circuit 38B lead (8) to connector adapter plug T1 P3 (9).
6. Connect circuit 38B lead (10) to cable plug W28 P2 (11).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**

**REPLACE CABLE W38, CABLE W29, AND CABLE ADAPTER (M1068 ONLY)**

**0751 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0751 00-1).
- Installation (page 0751 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

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

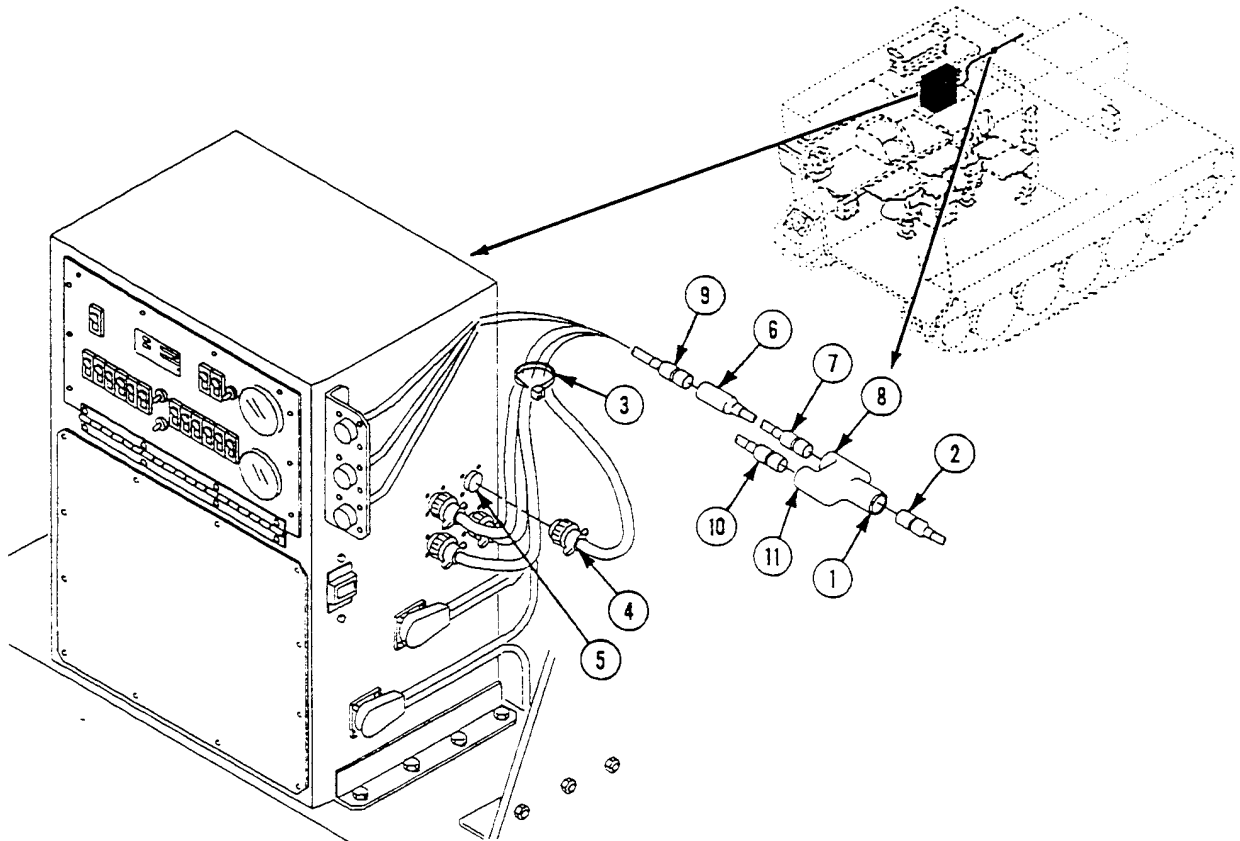
Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Tie strap

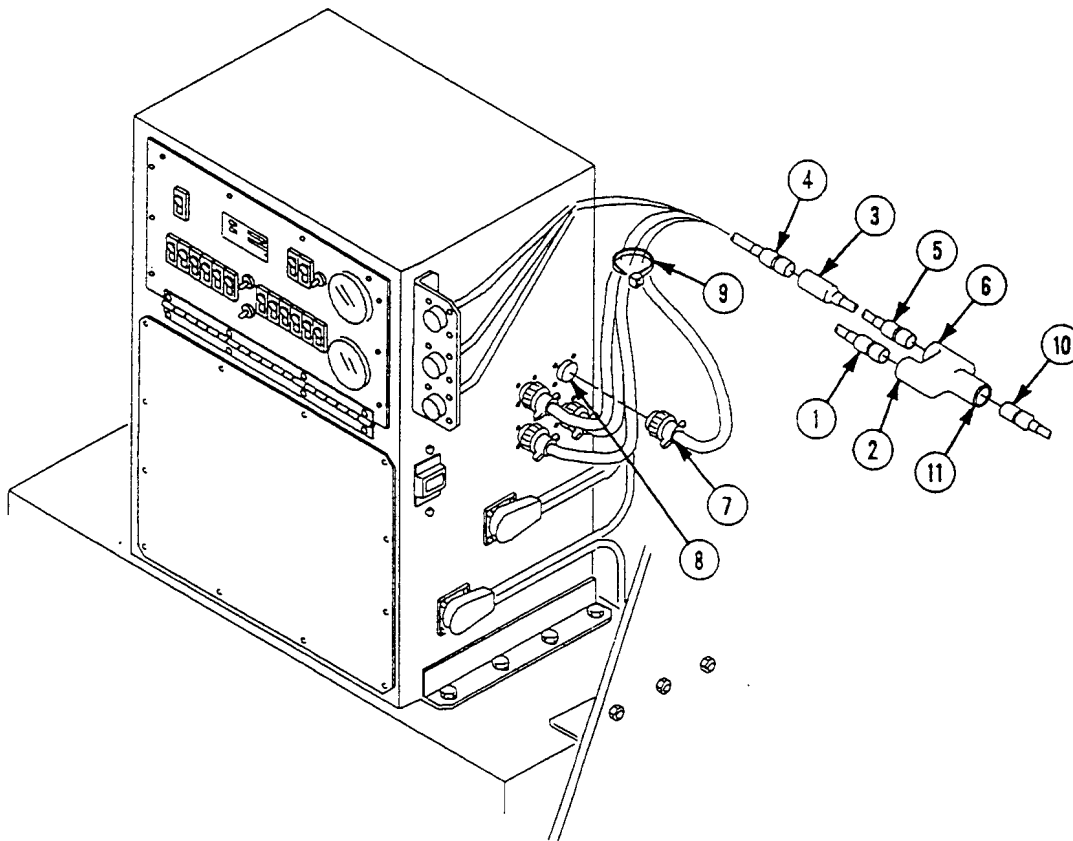
**REMOVAL**

1. Disconnect connector adapter plug T2 P1 (1) from circuit 415 lead (2).
2. Remove tie strap (3) from cables. Discard tie strap.
3. Disconnect cable plug W38 P7 (4) from power control enclosure jack A1 J28 (5).
4. Disconnect cable plugs W29 P2 (6) and W29 P1 (7) from adapter plug T2 P2 (8) and cable plug W38 P6 (9).
5. Remove dummy connector plug (10) from connector adapter plug T2 P3 (11).



**INSTALLATION**

1. Install dummy connector plug (1) in connector adapter plug T2 P3 (2).
2. Connect cable plug W29 P2 (3) to cable plug W38 P6 (4).
3. Connect cable plug W29 P1 (5) to connector adapter plug T2 P2 (6).
4. Connect cable plug W38 P7 (7) to power control enclosure jack A1 J28 (8).
5. Secure cables with new tie strap (9).
6. Connect connector adapter plug T2 P1 (10) to circuit 415 lead (11).



**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**

**REPLACE SINGLE POINT LAN CABLE (W40) (M1068 ONLY)**

**0752 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0752 00-1).  
 Installation (page 0752 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Signal Support System Specialist 31U10

Tools and Special Tools

Radio Equipment Tool Kit (WP 0780 00, Item 81)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

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

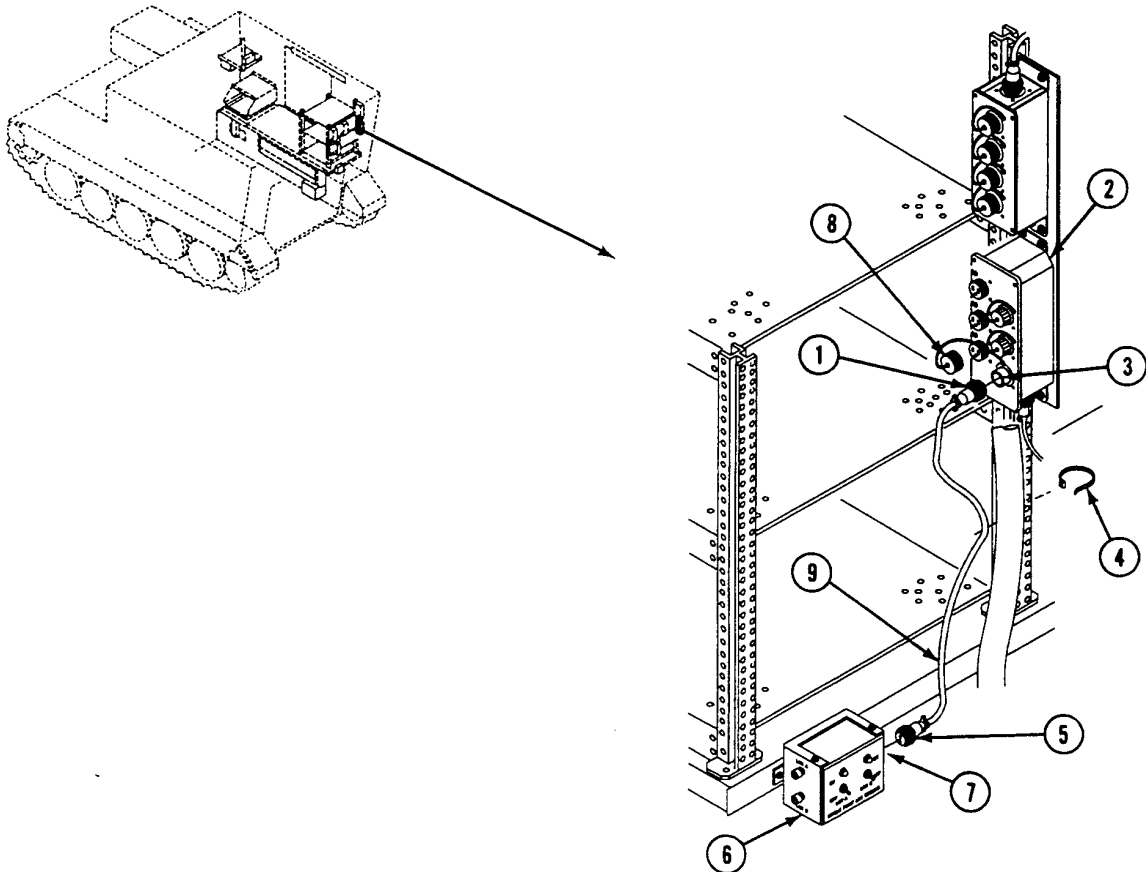
Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Tie strap

**REMOVAL**

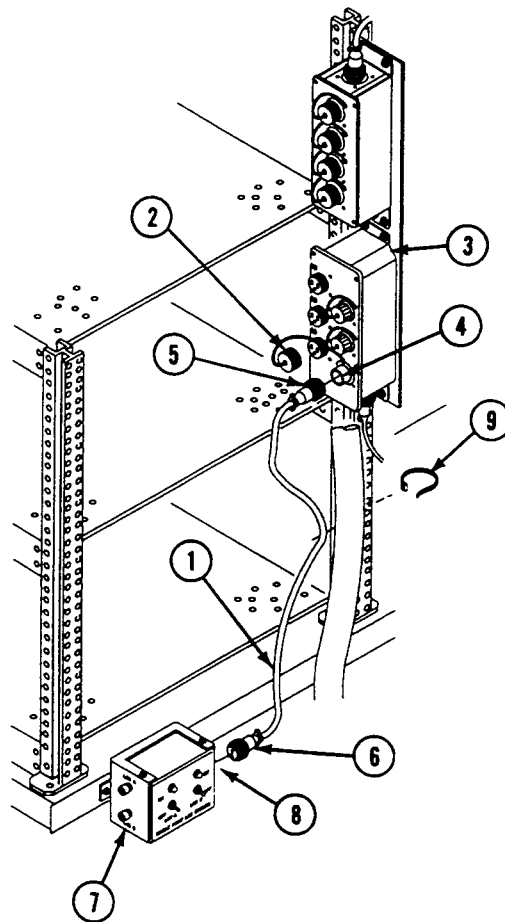
1. Disconnect cable W40 plug P1 (1) from DC power extension box A8 (2) jack J17 (3).
2. Remove tie strap (4). Discard tie strap.
3. Disconnect cable W40 plug P2 (5) from single point LAN ground box A15 (6) jack J1 (7).
4. Install dust cap (8) on DC power extension box A8 (2) jack J17 (3).
5. Remove cable 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 tie strap (9).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Turn MASTER SWITCH to ON (see your -10). Check that electrical system works properly. See TM 11-7010-256-12&P.
3. Turn MASTER SWITCH to OFF (see your -10).

**END OF TASK**

**REPLACE CABLES W42, W43, AND W251 (M1068 ONLY)**

**0753 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0753 00-1).  
 Installation (page 0753 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

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 0294 00)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

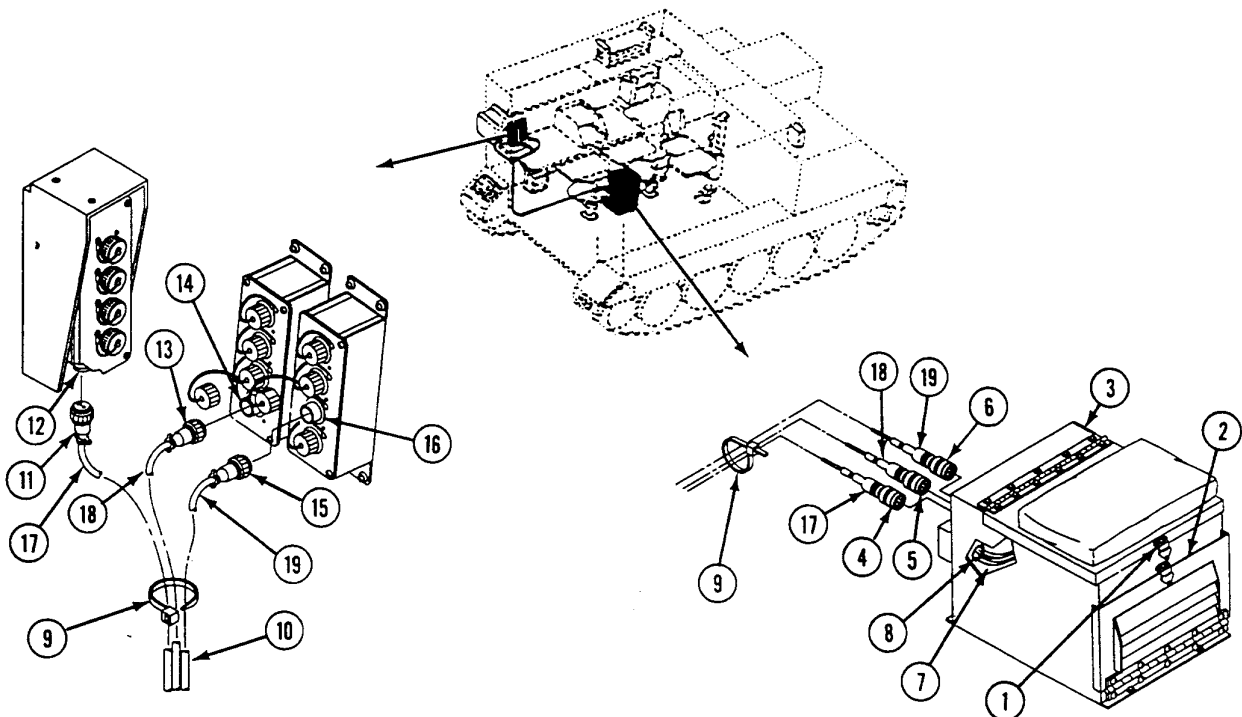
Tie strap (6)

Personnel Required

Power-Generation Equipment Repairer 52D10

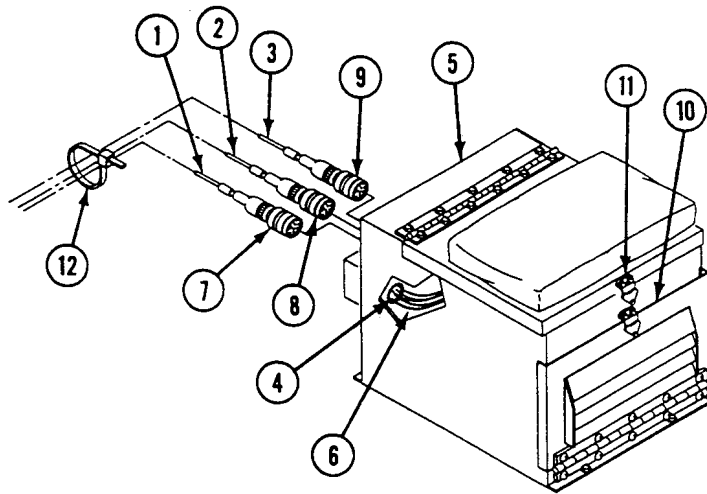
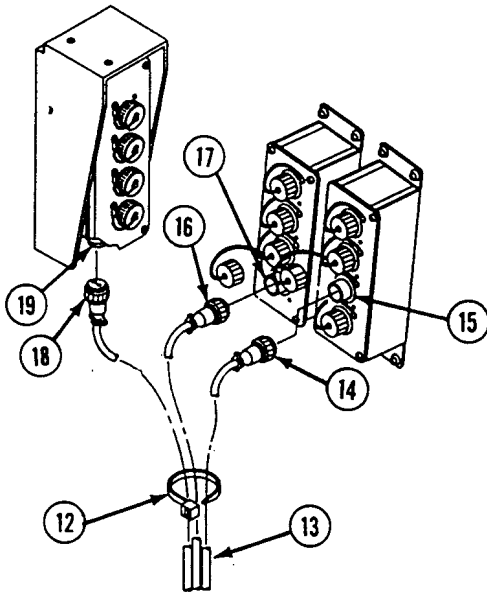
**REMOVAL**

1. Release catch (1) and open cover (2) on power supply storage box (3).
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 tie straps (9) from cables (10). Discard tie straps.
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 tie 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 0294 00).

**END OF TASK**

**REPLACE CABLE W45 (M1068 ONLY)**

**0754 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0754 00-1).  
 Installation (page 0754 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

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

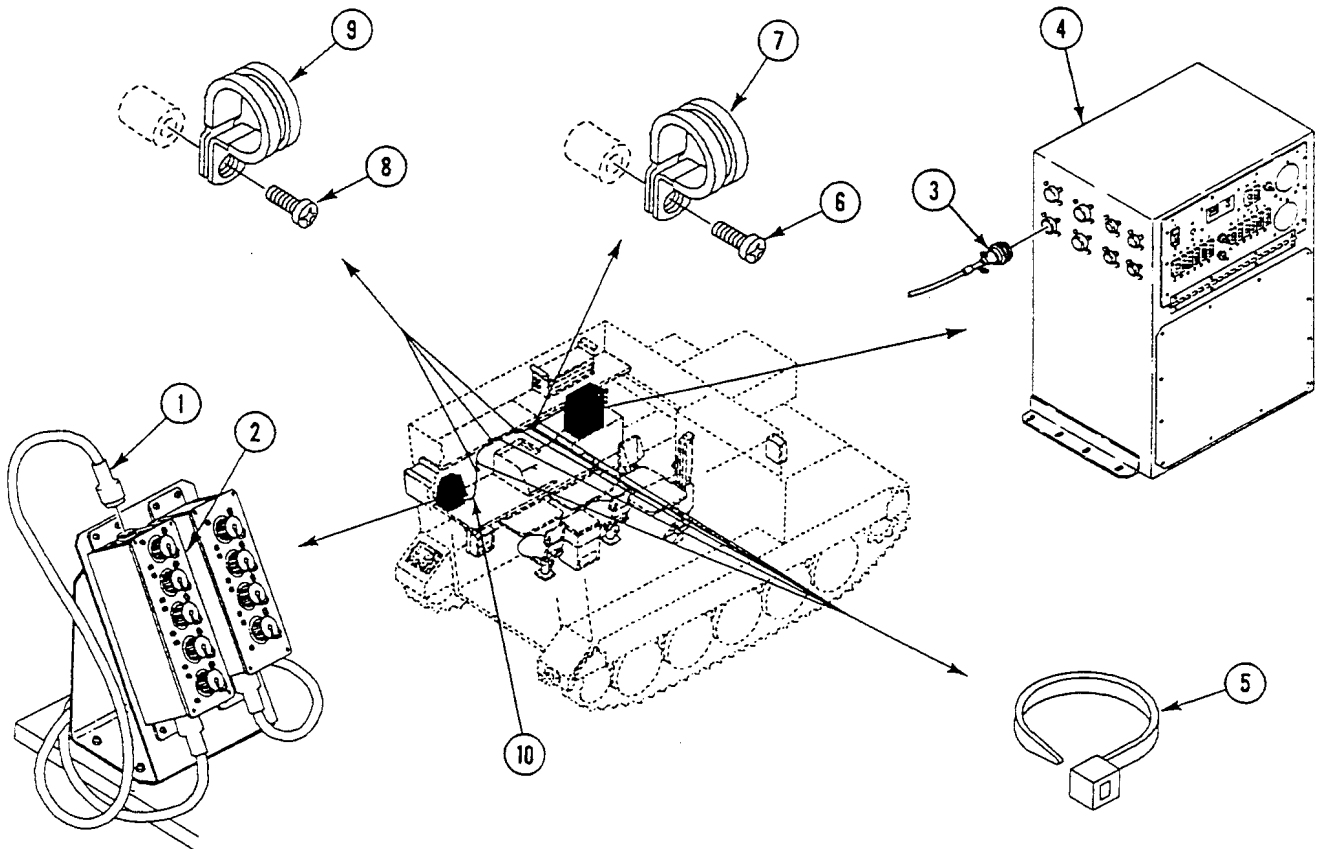
Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Tie strap (6)

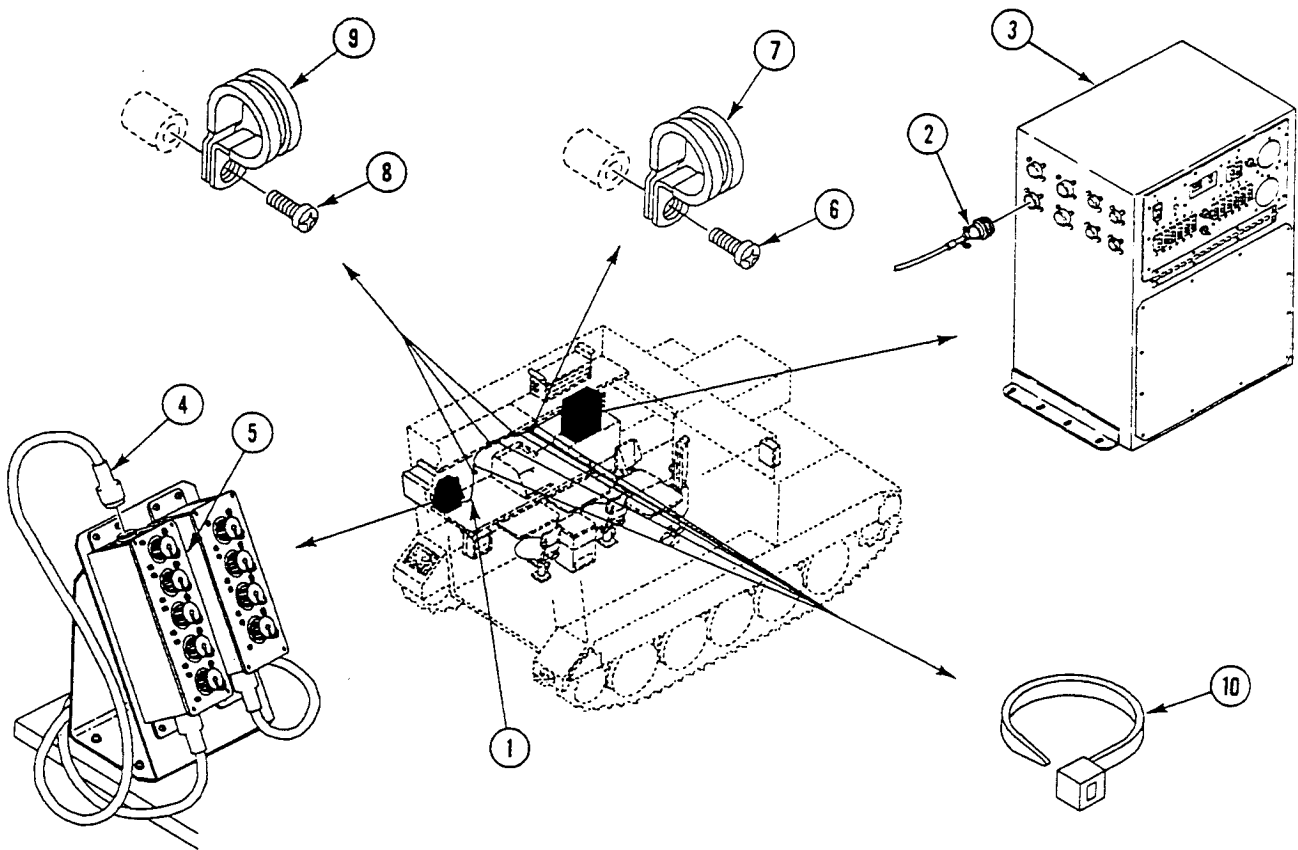
**REMOVAL**

1. Disconnect cable plug W45 P1 (1) from DC power extension box jack A9 J2 (2).
2. Disconnect cable plug W45 P13 (3) from power control enclosure jack A1 J33 (4).
3. Remove six tie straps (5) from cables. Discard tie 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 W45 P13 (2) into power control enclosure jack A1 J33 (3).
2. Connect cable plug W45 P1 (4) into DC power extension box jack A9 J2 (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 tie straps (10) evenly between clamps (9).



**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**

---

**REPLACE AC CABLE ASSEMBLY (W252) (M1068 ONLY)**

---

**0755 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0755 00-2).  
Installation (page 0755 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)

Tools and Special Tools

General Mechanic's Tool Kit WP 0780 00, Item 29

Carrier blocked (see your -10)

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

Materials/Parts

Tie strap (2)

Tie strap (6)

Battery ground lead disconnected (WP 0294 00)

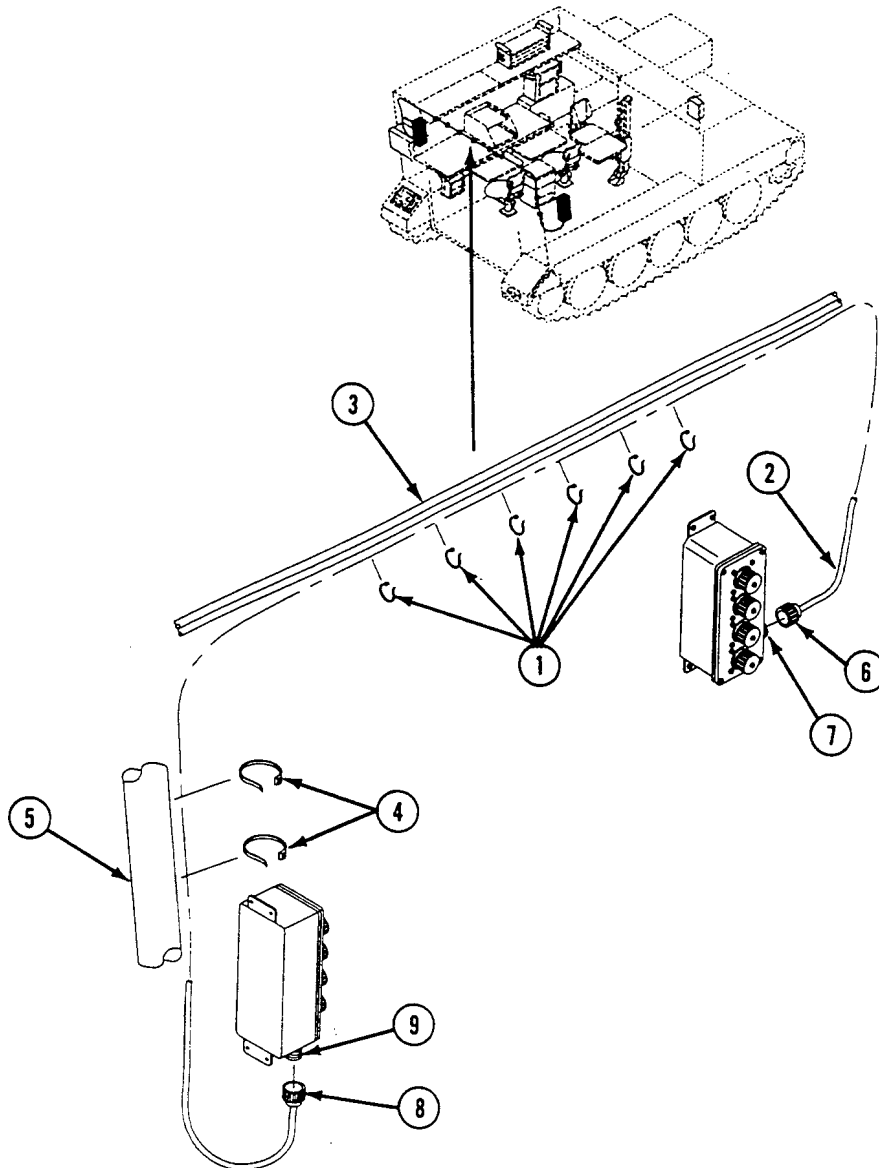
Personnel Required

Unit Mechanic

---

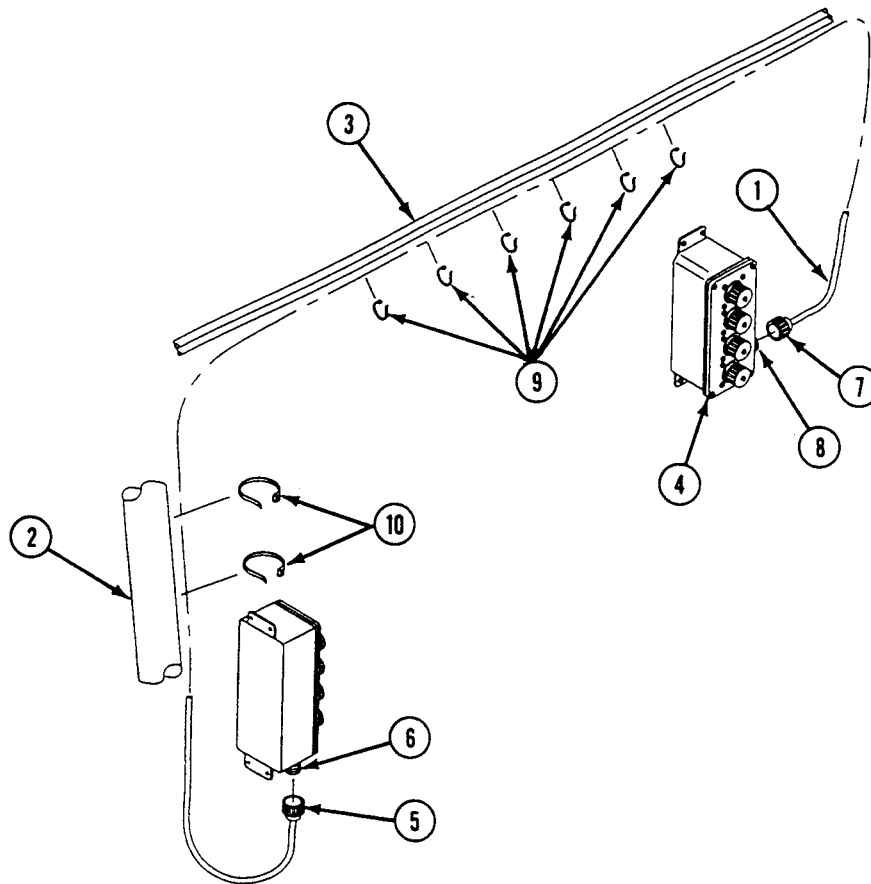
**REMOVAL**

1. Remove six tie straps (1) and cable W252 (2) from existing wiring harness (3) along top rear hull. Discard tie straps.
2. Remove two tie straps (4) and cable W252 (2) from fuel filler tube (5). Discard tie 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 six new tie straps (9) and to fuel filler tube (2) with two new tie straps (10).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**





**REPLACE LAN A OR B CABLE (W103/W104) (M1068 ONLY)**

**0756 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0756 00-1).  
 Installation (page 0756 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

Electronic Equipment Tool Kit (WP 0780 00, Item 81)

Materials/Parts

Locknut (2)

Tie strap (9)

Personnel Required

Unit Level Communications Maintainer 31V10

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

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

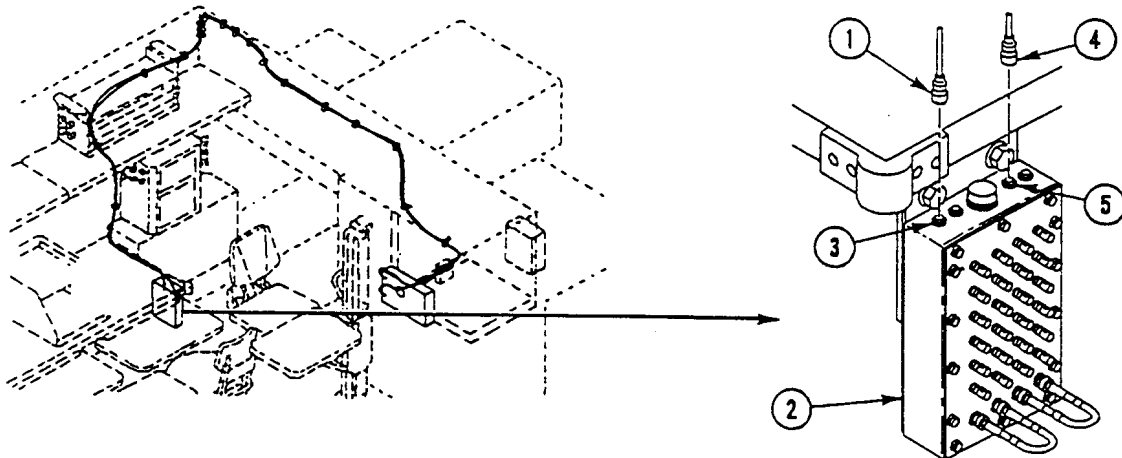
Battery ground lead disconnected (WP 0294 00)

**REMOVAL**

**NOTE**

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

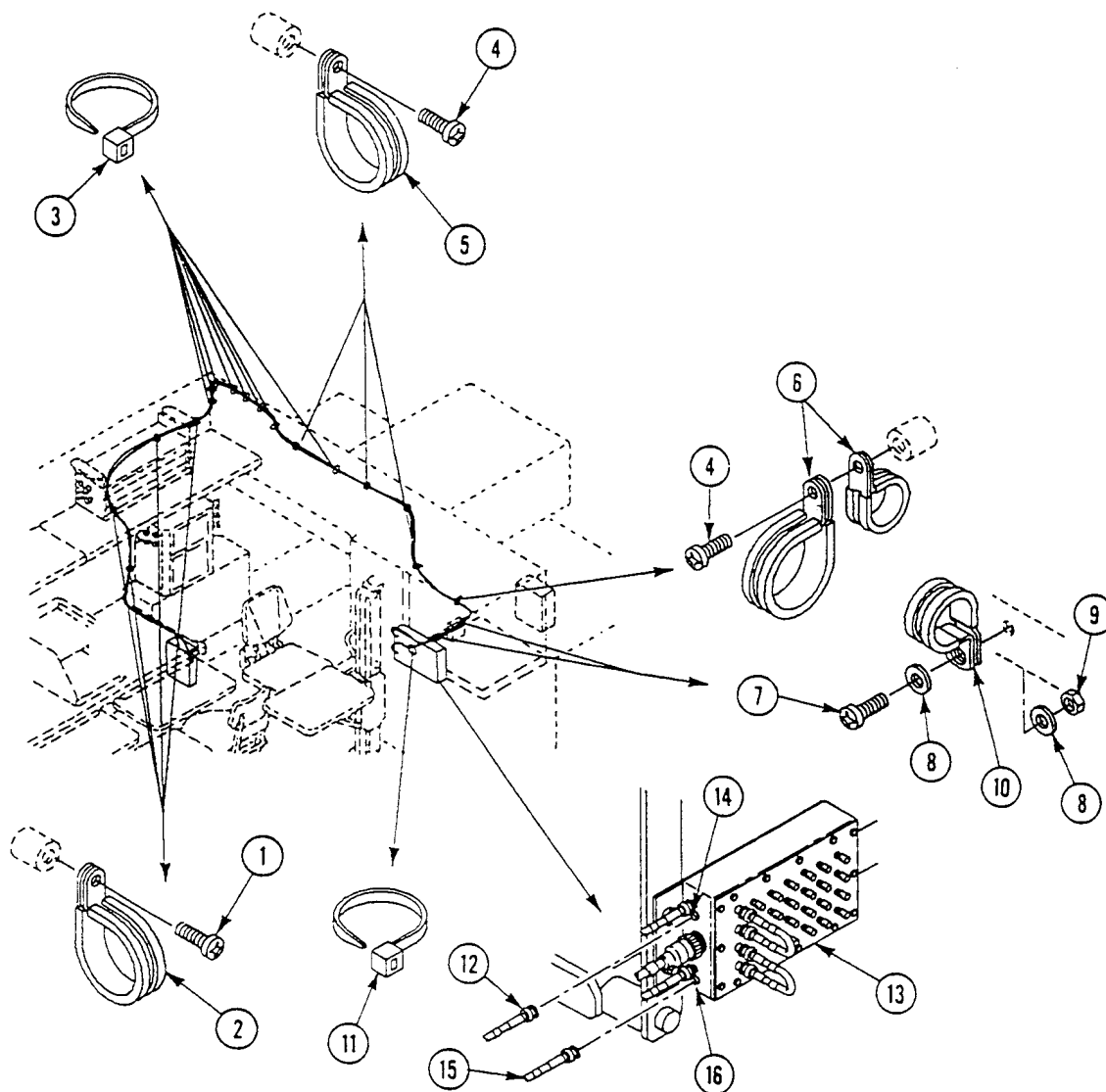
1. Remove cable W103 plug P2 (1) from roadside data box A13 (2) jack J5 (3) or W104 plug P2 (4) from roadside data box A13 (2) jack J2 (5).



REPLACE LAN A OR B CABLE (W103/W104) (M1068 ONLY) — Continued

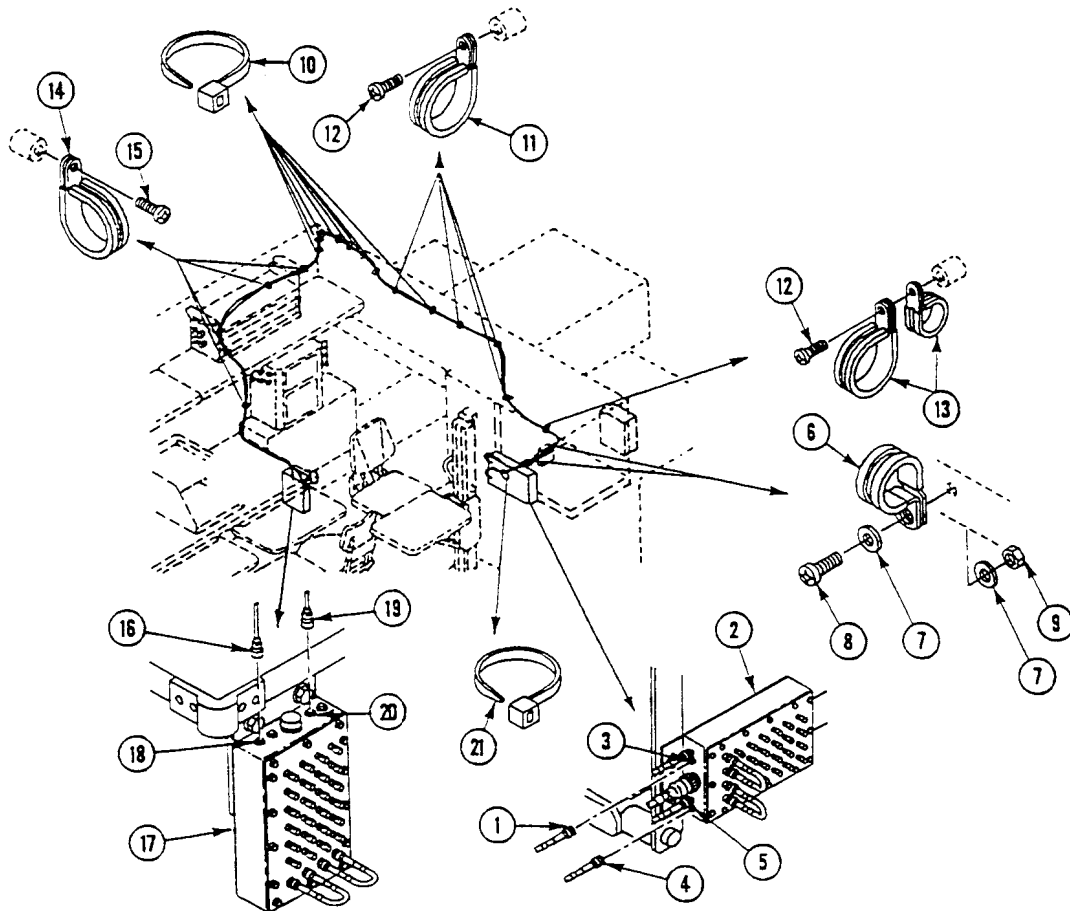
0756 00

2. Remove four screws (1) and clamps (2).
3. Remove eight tie straps (3). Discard tie 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 tie strap (11). Discard tie 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 J2 (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 tie 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 tie straps (21).



**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 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 CABLE W124 (M1068 ONLY)**

**0757 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0757 00-1).  
 Installation (page 0757 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Signal Support System Specialist 31U10

Tools and Special Tools

Electronic Equipment Tool Kit (WP 0780 00, Item 81)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

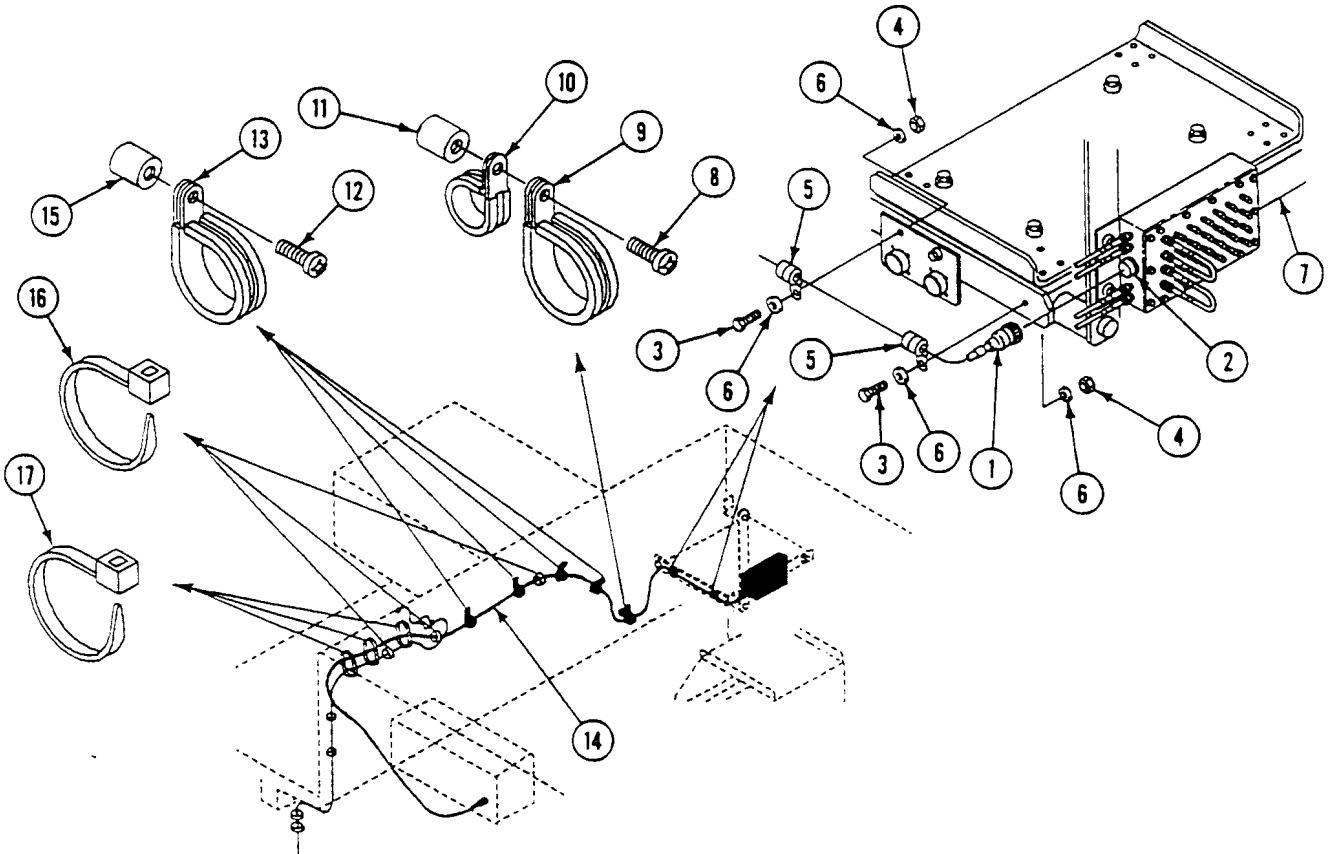
Materials/Parts

Locknut (2)

Tie strap (6)

**REMOVAL**

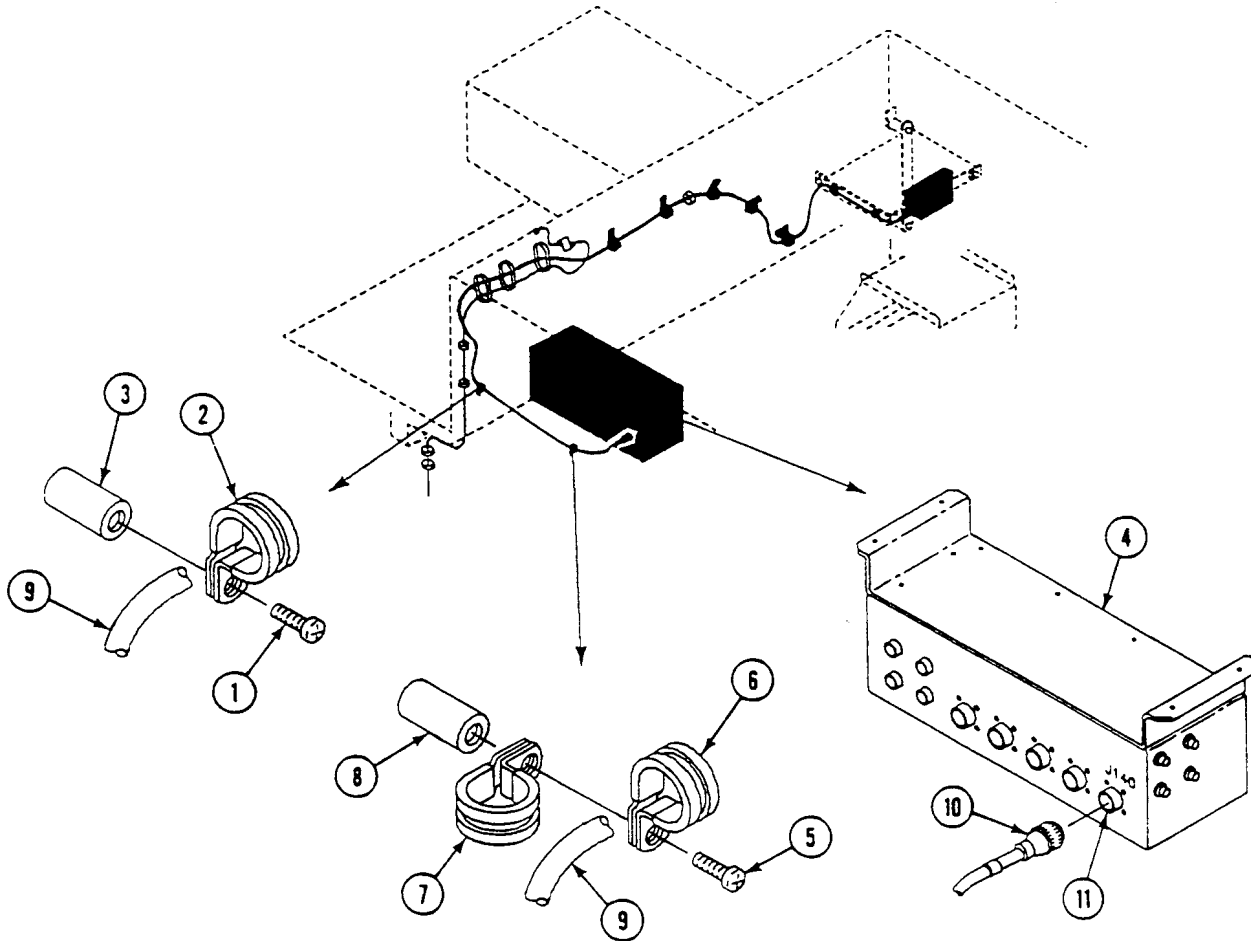
1. Disconnect cable W124 plug P1 (1) from Data Panel Assembly A12 jack J3 (2).
2. Remove two screws (3), locknuts (4), clamps (5), and four washers (6) from APIU rack (7). Discard locknuts.
3. Remove screw (8), clamp (9), and clamp (10) from weldnut (11).
4. Remove four screws (12) and clamps (13) from cables (14) and weldnuts (15).
5. Remove three tie straps (16) from cables (14). Discard tie straps.
6. Remove three tie straps (17) from cables (14). Discard tie straps.



REPLACE CABLE W124 (M1068 ONLY) — Continued

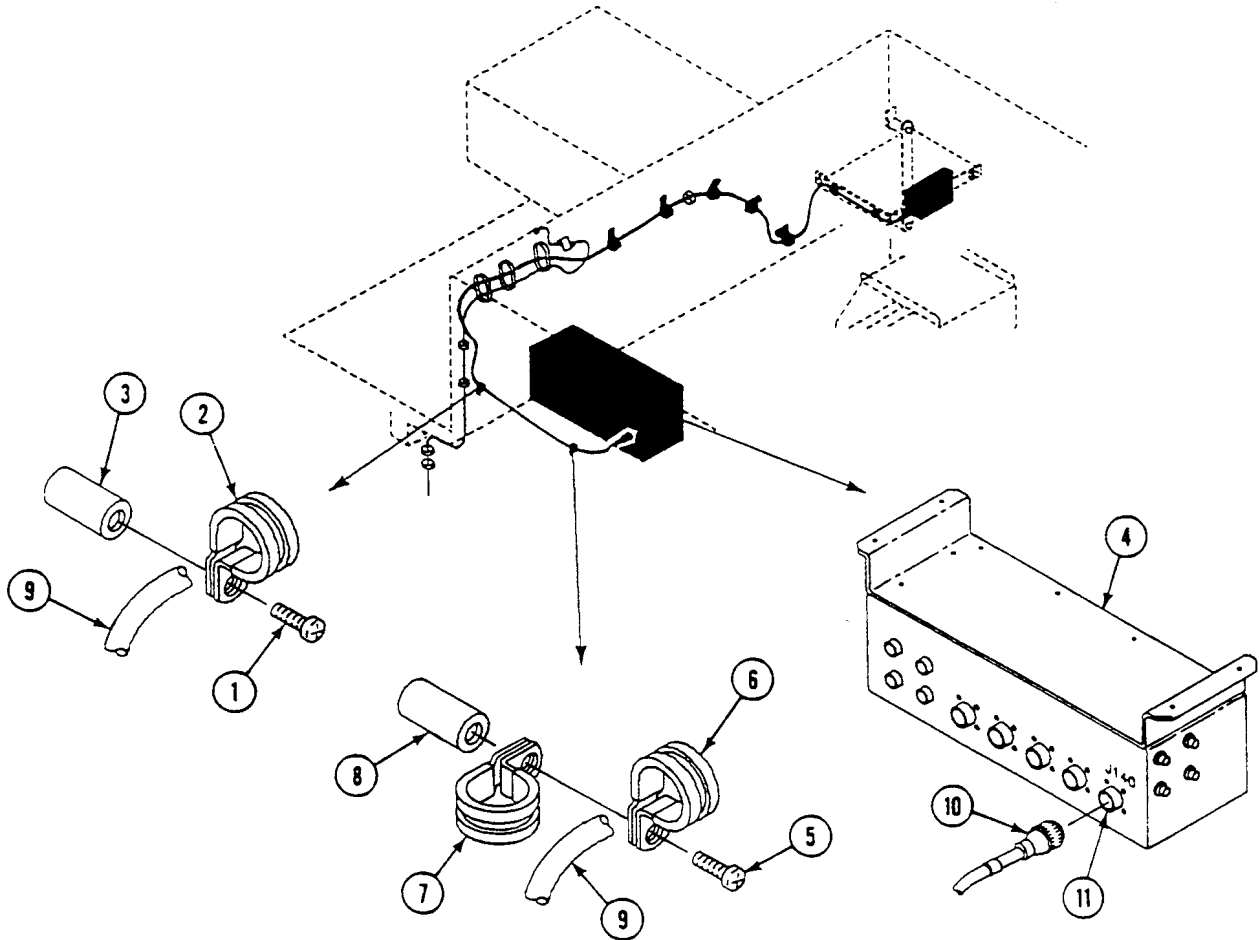
0757 00

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).

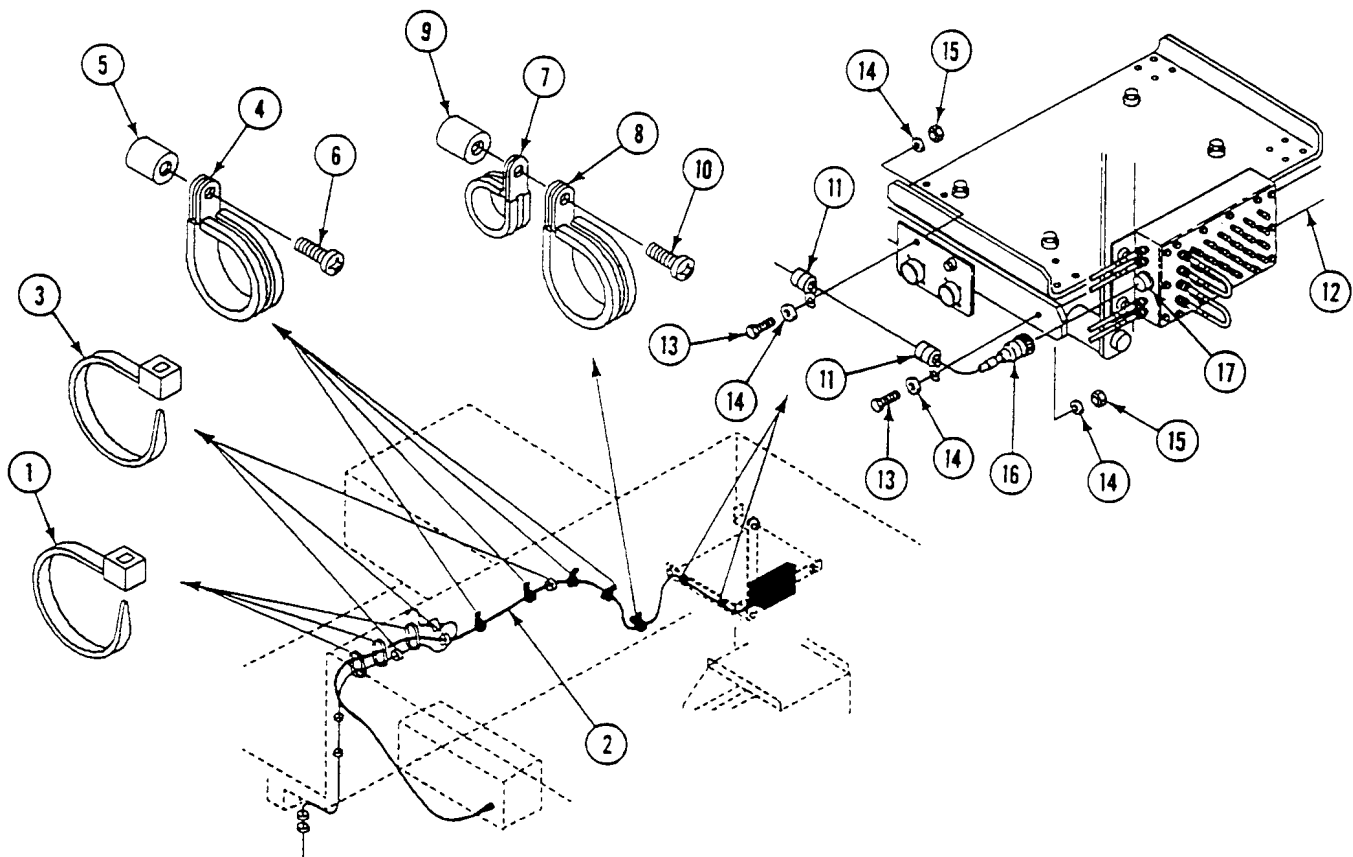




**REPLACE CABLE W124 (M1068 ONLY) — Continued**

**0757 00**

5. Install three new tie straps (1) on cables (2).
6. Install three new tie 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 0294 00).

**END OF TASK**

**REPLACE CABLE W126 (M1068 ONLY)**

**0758 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0758 00-1).  
 Installation (page 0758 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Signal Support System Specialist 31U10

Tools and Special Tools

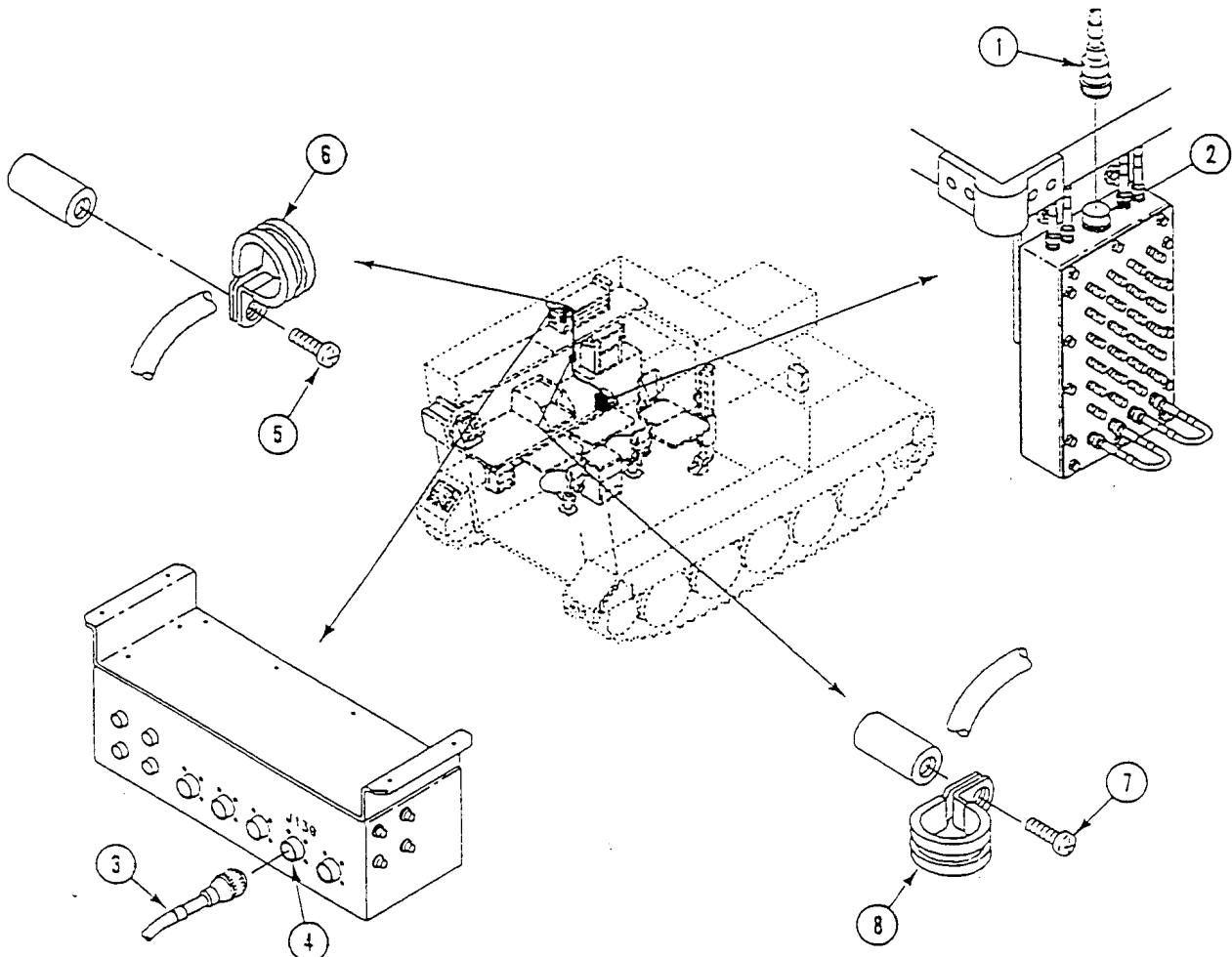
Electronic Equipment Tool Kit (WP 0780 00, Item 81)

Equipment Condition

Engine stopped (see your -10)  
 Carrier blocked (see your -10)  
 Battery ground lead disconnected (WP 0294 00)

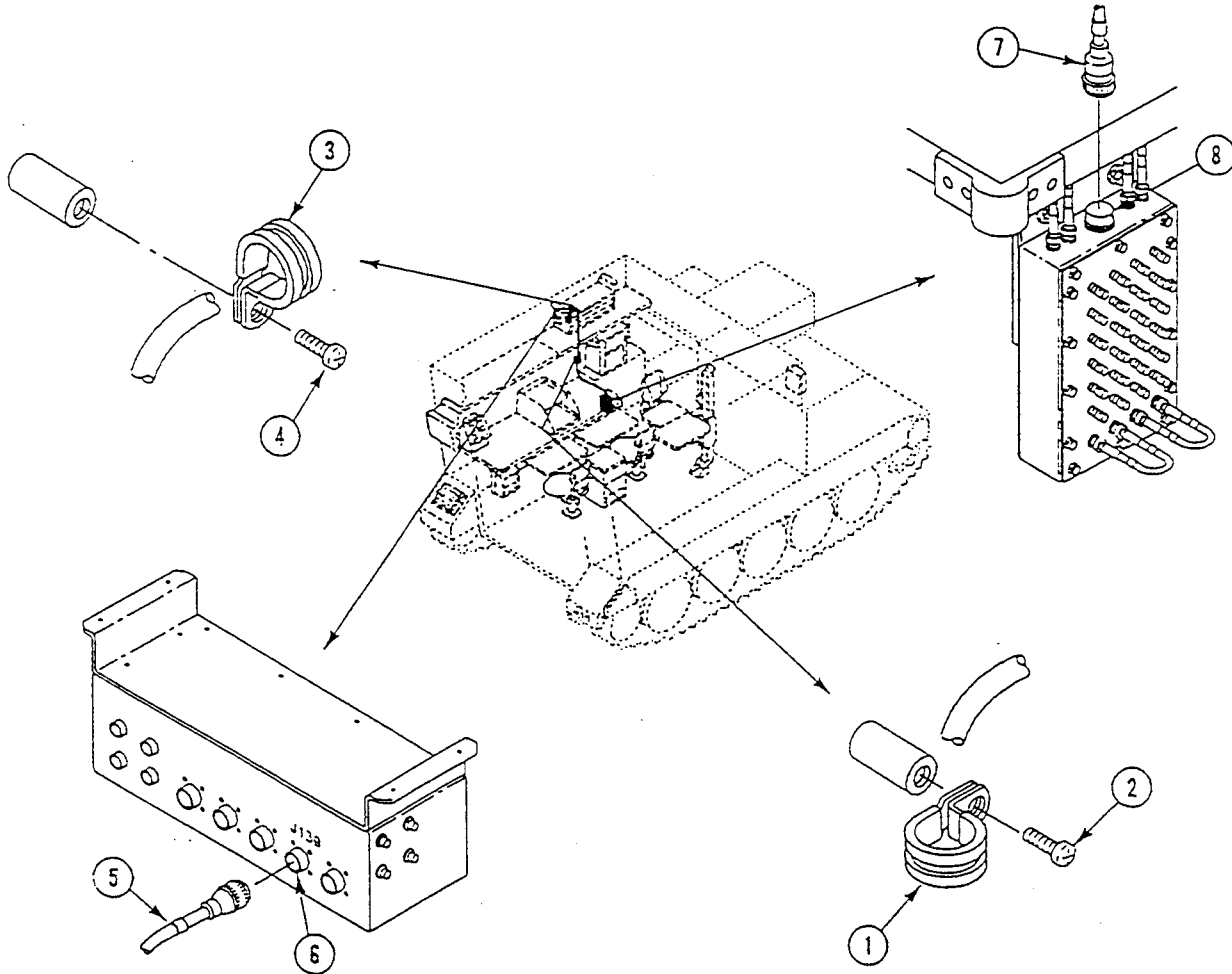
**REMOVAL**

1. Disconnect cable plug W126 P1 (1) from data panel assembly jack A13 J3 (2).
2. Disconnect cable plug W126 P108 (3) from patch panel box jack A10 J139 (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 W126 P108 (5) to patch panel box jack A10 J139 (6).
4. Connect cable plug W126 P1 (7) to data panel assembly jack A13 J3 (8).



**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**

**REPAIR CABLE ASSEMBLY (W4/W6) (M1068 ONLY)**

**0759 00**

**THIS WORK PACKAGE COVERS:**

Disassembly (page 0759 00-1).  
 Assembly (page 0759 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

WP 0312 00

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)  
 Soldering Torch Kit (WP 0780 00, Item 70)

Equipment Condition

Cable Assembly W4 removed (WP 0740 00)  
 Cable Assembly W6 removed (WP 0742 00)

Personnel Required

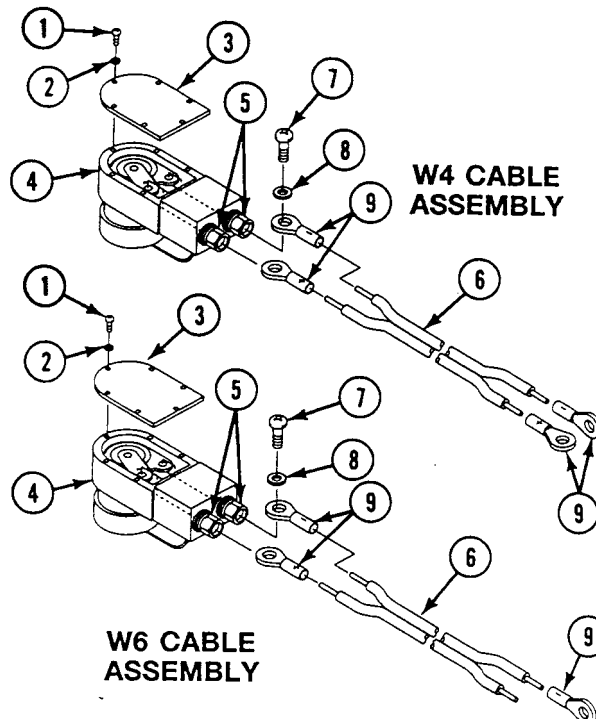
Unit Mechanic

**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.

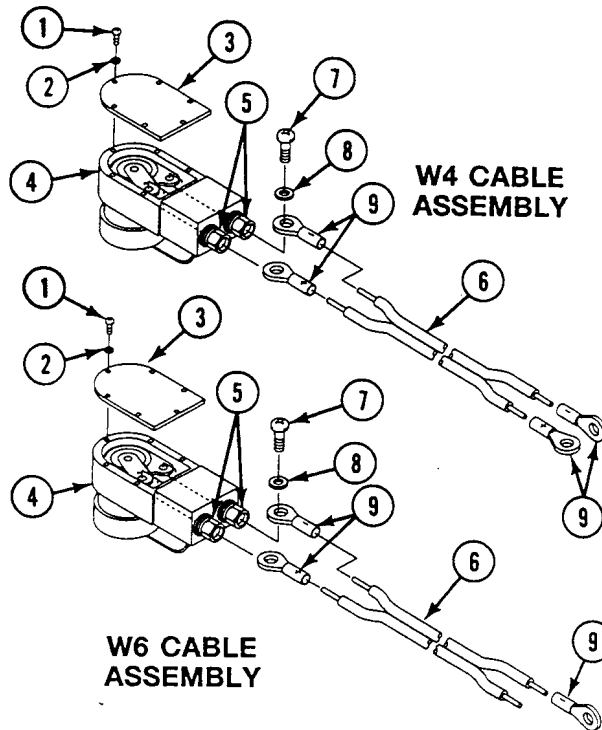
Position the terminals on the cables as shown.

1. Install terminals (9) on cables (6) (WP 0312 00).
2. Strip 1 inch to 1-1/2 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**

CHAPTER 42

UNIT MAINTENANCE INSTRUCTIONS  
FOR COMMUNICATION SYSTEM

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>   | <u>Sequence No.</u> |
|--|---------------------|
| REPLACE C-2298/VRC INTERCOM STATION BRACKET (M901A1 ONLY).....   | 0760 00             |
| REPLACE AS-1729/VRC ANTENNA GUARD (M901A1 ONLY).....   | 0761 00             |
| REPLACE MX-7777B/GRC OR MX-7778A/GRC TRANSIENT SUPPRESSOR MOUNTS AND<br>GROUND LEAD (M901A1 ONLY)..... | 0762 00             |



---

**REPLACE C-2298/VRC INTERCOM STATION BRACKET (M901A1 ONLY)**

---

**0760 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0760 00-1).  
 Installation (page 0760 00-2).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Intercom removed

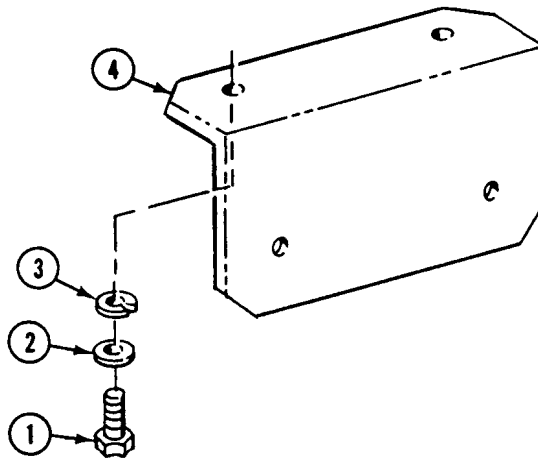
Materials/Parts

Lockwasher (2)

---

**REMOVAL**

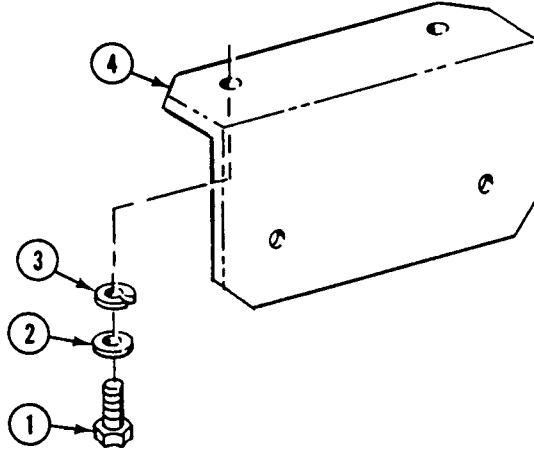
1. Remove two screws (1), washers (2), lockwashers (3), and bracket (4) from hull. Discard lockwashers.





**INSTALLATION**

1. Install bracket (4), on hull with two new lockwashers (3), washers (2), and screws (1).

**FOLLOW-THROUGH STEPS**

1. Install intercom.

**END OF TASK**

**REPLACE AS-1729/VRC ANTENNA GUARD (M901A1 ONLY)**

**0761 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0761 00-1).  
 Installation (page 0761 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

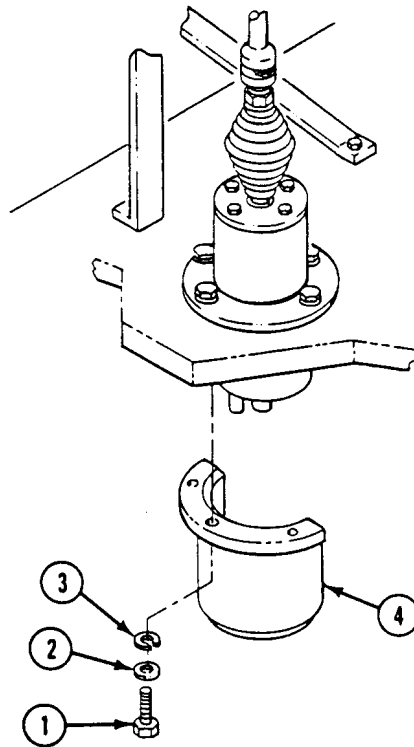
Carrier blocked (see your -10)

Materials/Parts

Lockwasher (3)

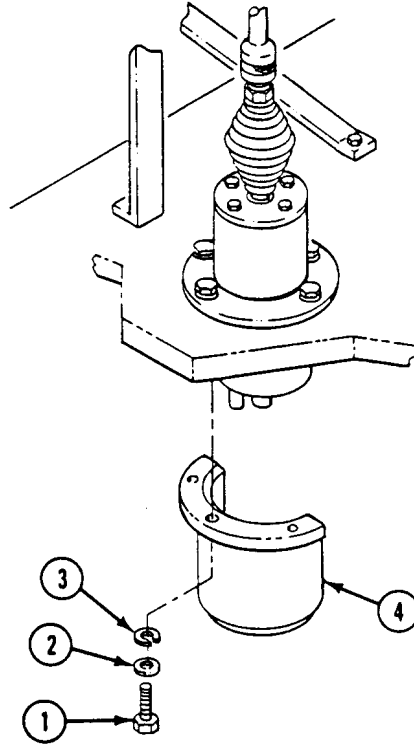
**REMOVAL**

1. Remove three screws (1), lockwashers (2), washers (3), and guard (4). Discard lockwashers.



**INSTALLATION**

1. Install guard (4) on hull with three washers (3), new lockwashers (2), and screws (1).

**END OF TASK**

**REPLACE MX-7777B/GRC OR MX-7778A/GRC TRANSIENT SUPPRESSOR MOUNTS AND GROUND LEAD (M901A1 ONLY)**

**0762 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0762 00-1).
- Installation (page 0762 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10).

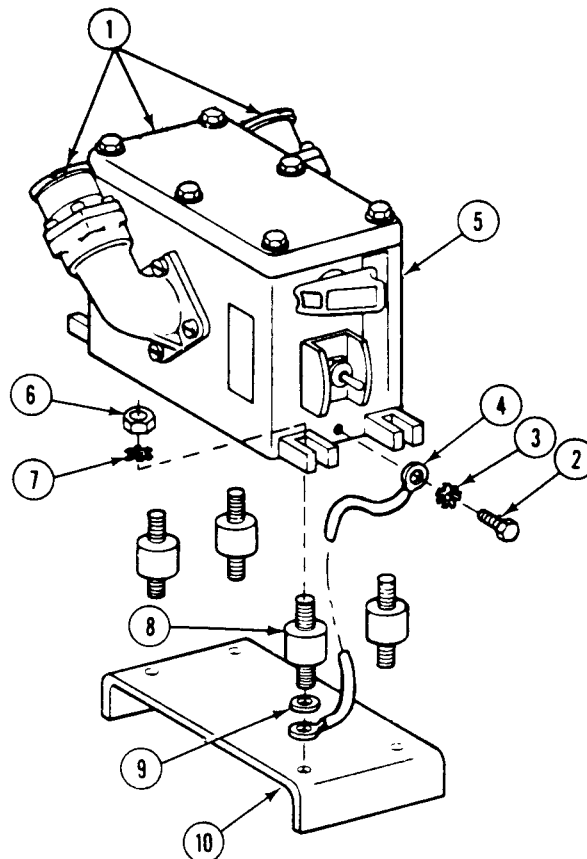
Carrier blocked (see your -10)

Materials/Parts

- Lockwasher
- Lockwasher (4)

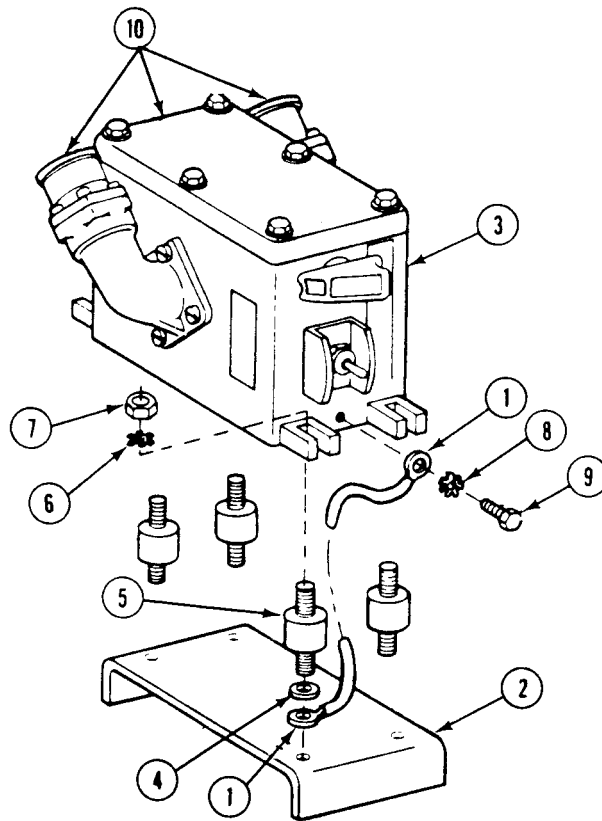
**REMOVAL**

1. Tag and disconnect three electrical connectors from three connectors (1).
2. Remove screw (2), lockwasher (3), and upper end of ground strap (4) from transient suppressor (5). Discard lockwasher.
3. Remove four nuts (6), lockwashers (7), and transient suppressor (5) from four mounts (8). Discard lockwashers.
4. Remove four mounts (8), washers (9), and lower end of ground strap (4) from mount (10).



**REPLACE MX-777B/GRC OR MX-778A/GRC TRANSIENT SUPPRESSOR MOUNTS  
AND GROUND LEAD (M901A1 ONLY) — Continued****0762 00****INSTALLATION**

1. Remove paint where ground strap (1) lug contacts mount (2) and transient suppressor (3) before attaching ground strap.
2. Install lower end of ground strap (1) and four washers (4) on mounts (5) and mount (2).
3. Install transient suppressor (3), four new lockwashers (6), and nuts (7) on four mounts (5).
4. Install upper end of ground strap (1), new lockwasher (8), and screw (9) on transient suppressor (3).
5. Connect three electrical cables to three connectors (10) per tagged identification.

**END OF TASK**

CHAPTER 43

UNIT MAINTENANCE INSTRUCTIONS  
FOR FIRE EXTINGUISHER SYSTEM

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>   | <u>Sequence No.</u> |
|--|---------------------|
| REPLACE EXTERNAL HANDLE SHIELD (M113A2, M901A1, AND M1059 ONLY)..... | 0763 00             |
| REPLACE EXTERNAL HANDLE SHIELD (M577A2 AND M1068 ONLY).....          | 0764 00             |
| REPLACE EXTERNAL HANDLE SHIELD (M1064 ONLY).....                     | 0765 00             |
| REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL HANDLE.....     | 0766 00             |
| REPLACE EXTERNAL CABLE TUBE.....                                     | 0767 00             |
| REPLACE CYLINDER DISCHARGE TUBES.....                                | 0768 00             |
| REPLACE FIRE EXTINGUISHER CYLINDER AND MOUNT.....                    | 0769 00             |
| REPLACE PORTABLE FIRE EXTINGUISHER MOUNT (ALL EXCEPT M1068).....     | 0770 00             |
| REPLACE FIRE EXTINGUISHER AND MOUNT (M1059 ONLY).....                | 0771 00             |
| REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER MOUNT (M1068 ONLY).....    | 0772 00             |



**REPLACE EXTERNAL HANDLE SHIELD (M113A2, M901A1,  
AND M1059 ONLY)**

**0763 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0763 00-1).
- Installation (page 0763 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

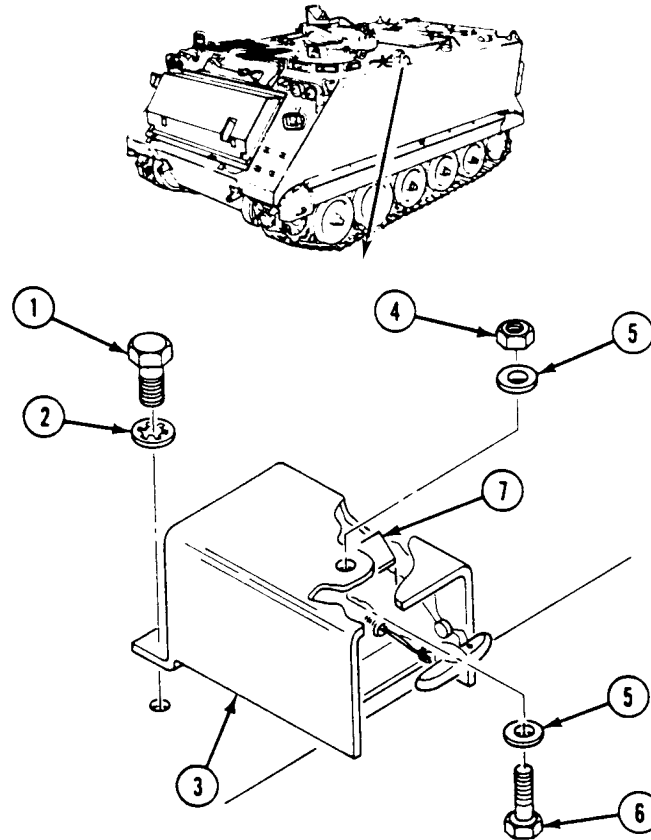
Carrier blocked (see your -10)

Materials/Parts

- Locknut
- Lockwasher (2)
- Shield

**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.





---

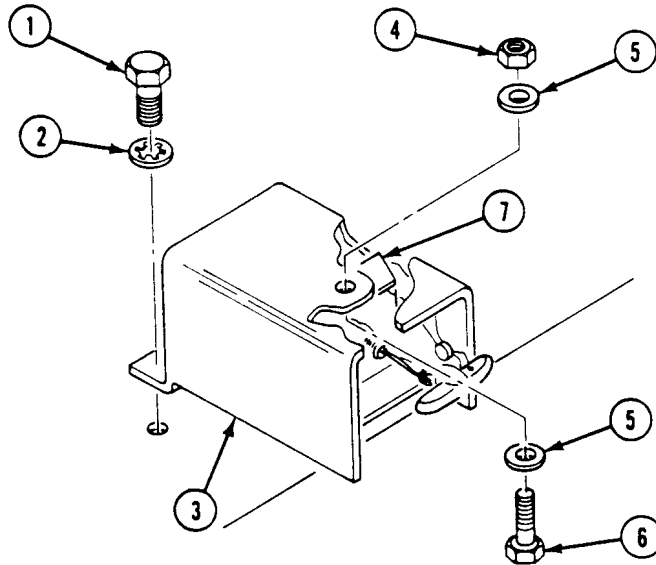
**REPLACE EXTERNAL HANDLE SHIELD (M113A2, M901A1, AND M1059 ONLY) — Continued**

---

0763 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 (M577A2 AND M1068 ONLY)**

**0764 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0764 00-1).  
 Installation (page 0764 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

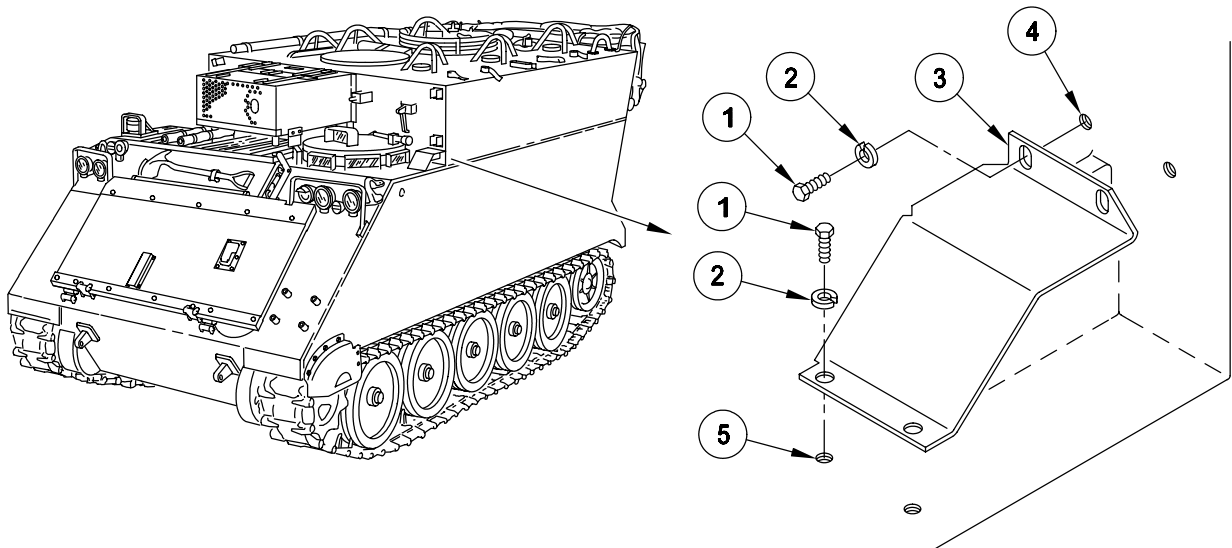
Carrier blocked (see your -10)

Materials/Parts

Lockwasher (4)

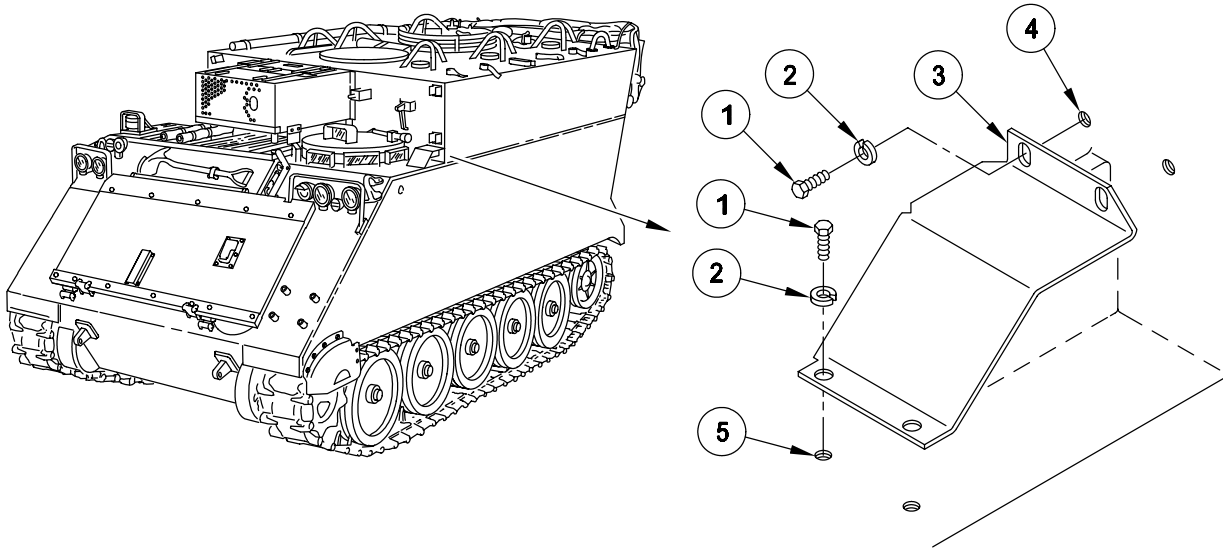
**REMOVAL**

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 (M1064 ONLY)**

---

**0765 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0765 00-1).
  - Clean, Inspect, and Repair (page 0765 00-2).
  - Installation (page 0765 00-2).
- 

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

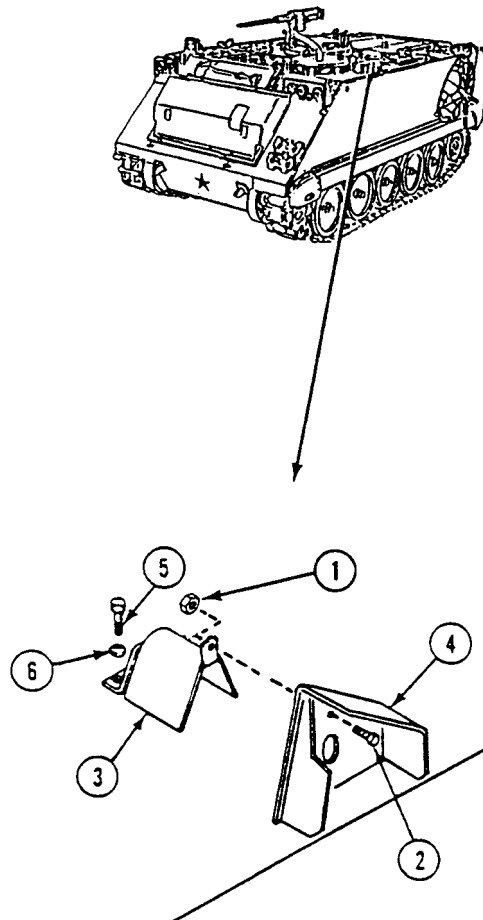
Materials/Parts

Locknut

Lockwasher (2)

**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.

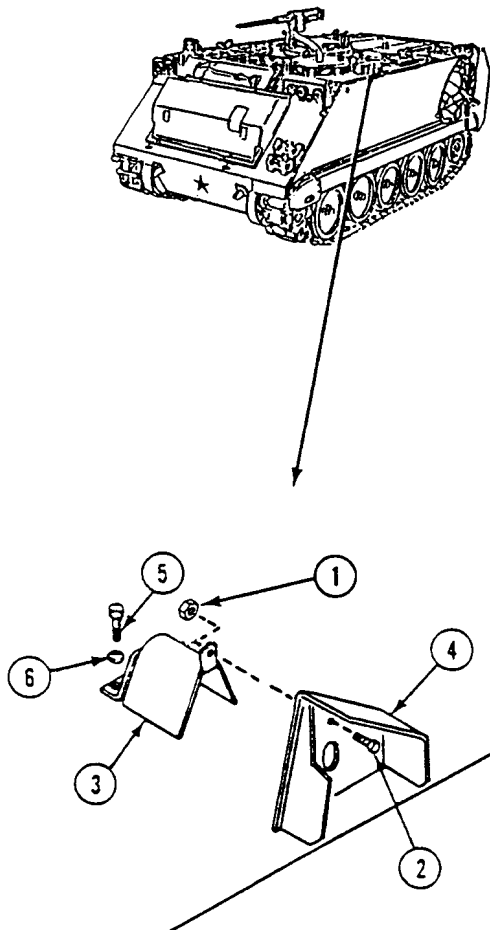


**CLEAN, INSPECT, AND REPAIR**

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**

---

**0766 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0766 00-2).  
Installation (page 0766 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)  
Lead Seal Hand Press (WP 0780 00, Item 46)

Equipment Condition

Engine stopped (see your -10)  
Carrier blocked (see your -10)  
External handle shield removed (WP 0763 00,  
WP 0764 00, or WP 0765 00)

Materials/Parts

Seal wire

---

REMOVAL

**WARNING**



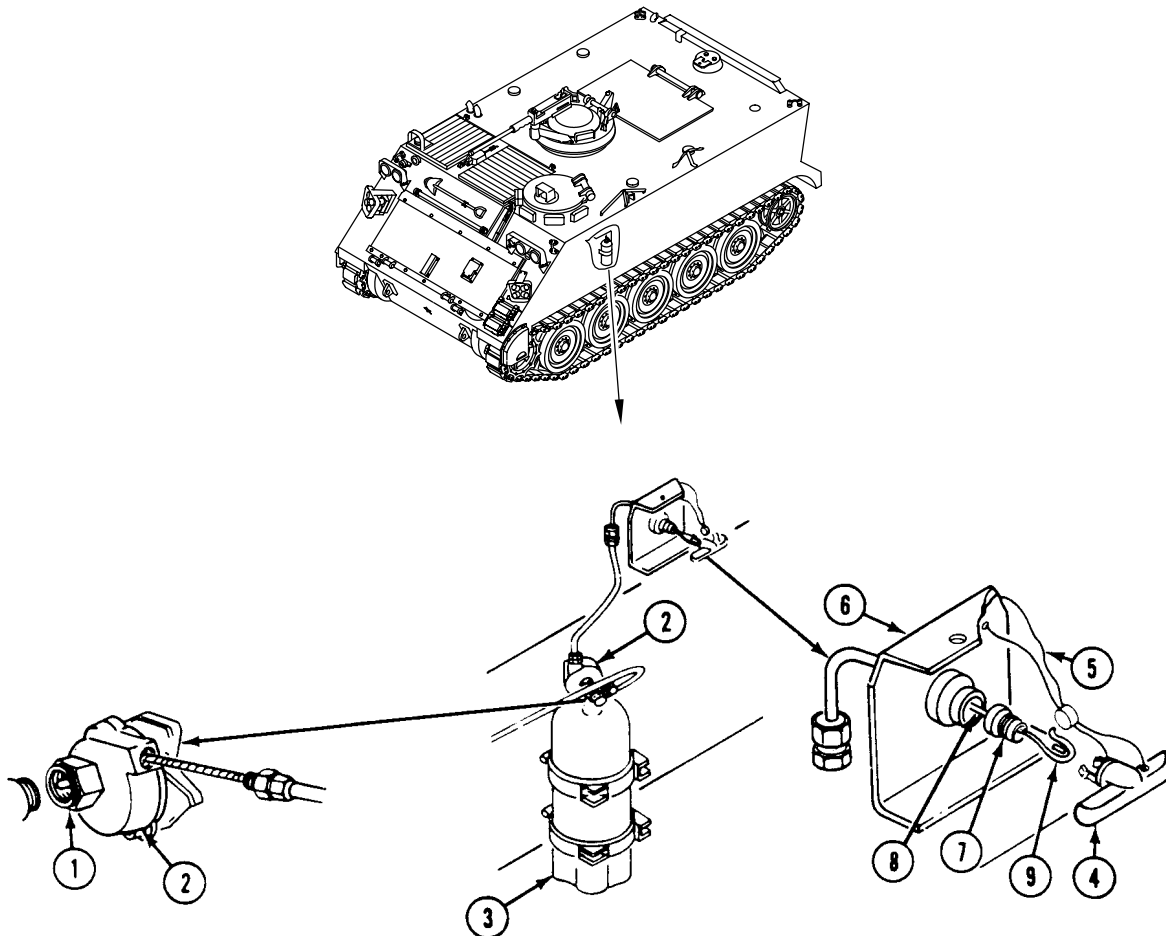
**You could be injured if cylinder discharges when it is out of its mounting brackets or is dropped. Handle with great care.**

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.**

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).
4. Slide insert (7) down cable (8) until wedge (9) can be seen. Remove wedge and cable from insert.



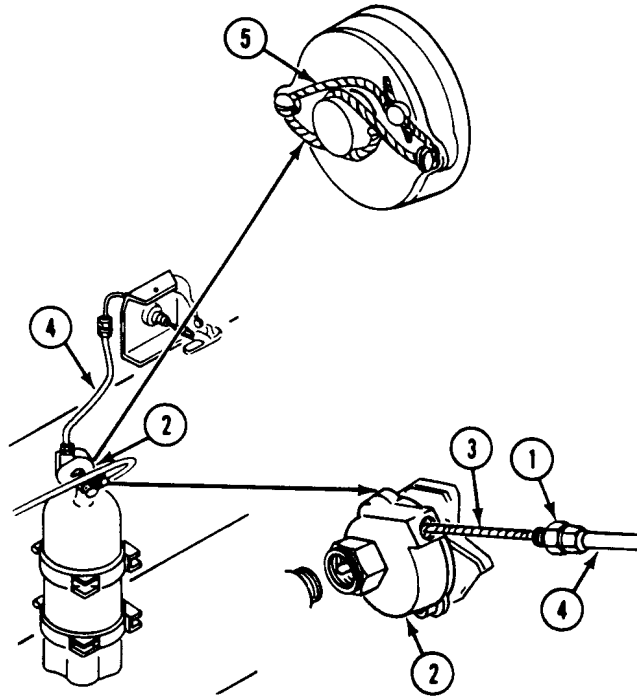
---

**REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL  
HANDLE — Continued**

---

0766 00

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).



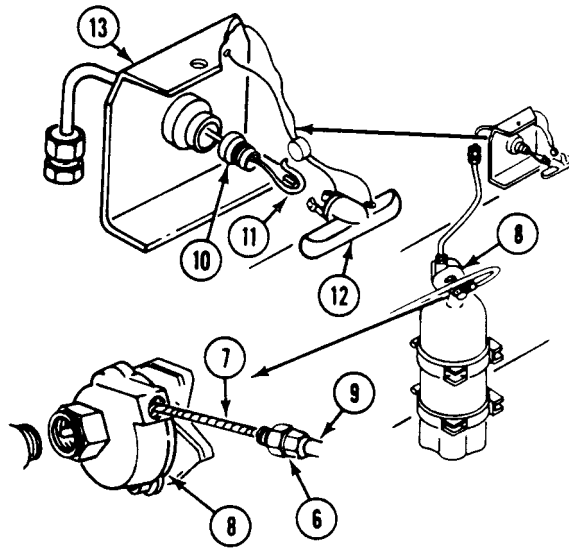


**REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL HANDLE — Continued**

0766 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).



**REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL HANDLE — Continued**

0766 00

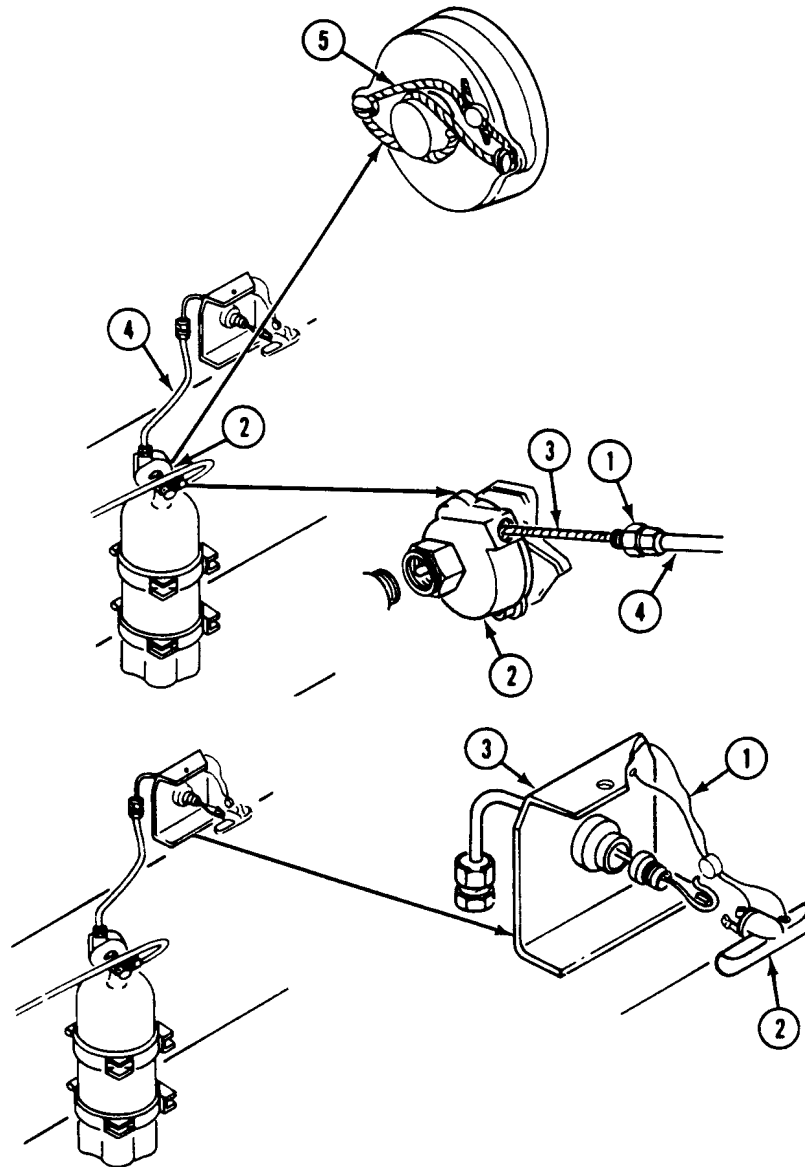
6. Install valve (2) on fire extinguisher cylinder (10). Secure with captive nut (11).

**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 0763 00, WP 0764 00, or WP 0765 00).

**END OF TASK**



---

**REPLACE EXTERNAL CABLE TUBE**

**0767 00**

---

**THIS WORK PACKAGE COVERS:**

Removal (page 0767 00-2).  
 Installation (page 0767 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

External handle shield removed (WP 0763 00,  
 WP 0764 00, or WP 0765 00)

External handle and insert removed (WP 0766 00)

Materials/Parts

Adapter

Nut

Sleeve

Sleeve

Tube

---

## REMOVAL

## NOTE

For M113A2, slide spill liner to access engine compartment fire extinguisher.

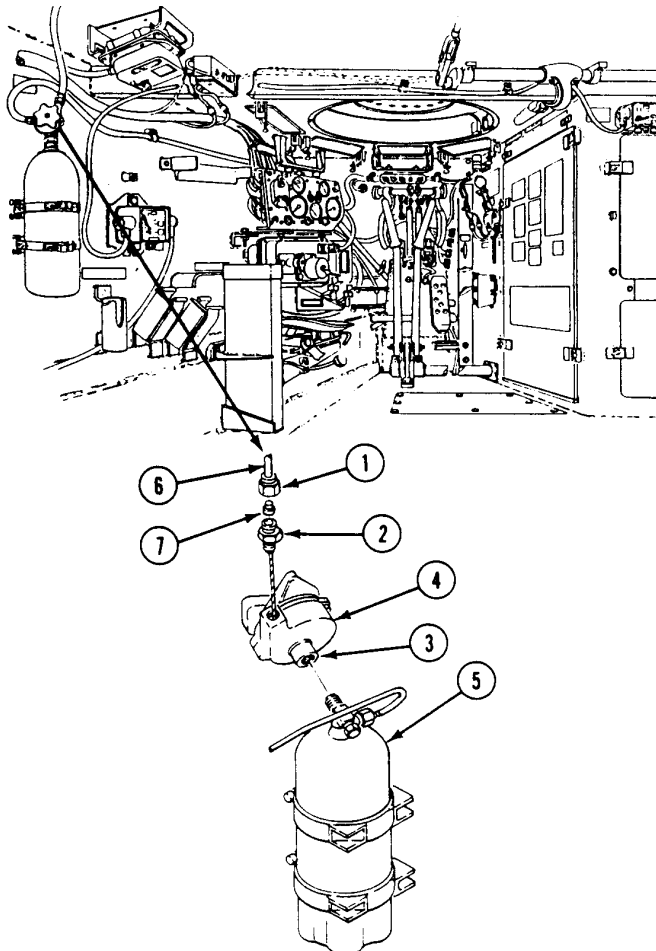
1. Loosen nut (1) on control valve adapter (2).

## WARNING



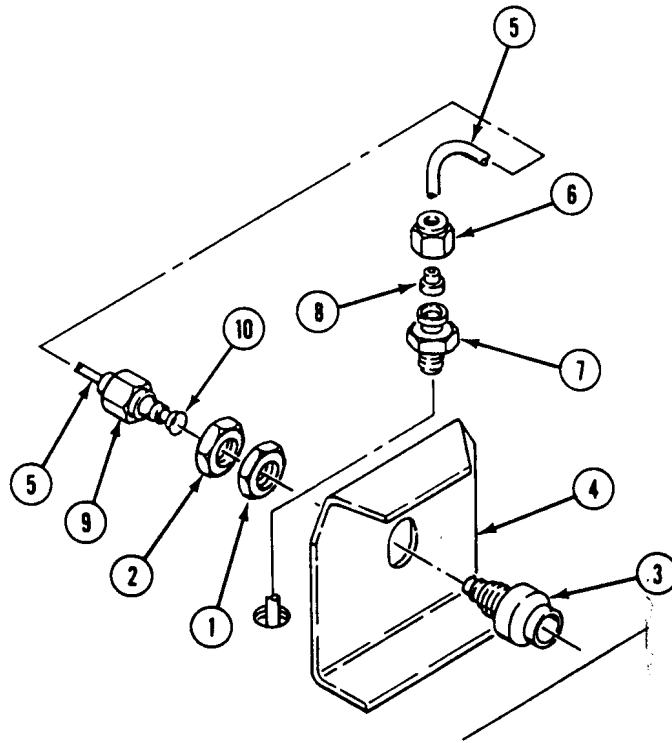
**You could be injured if cylinder discharges when it is out of its mounting brackets or is dropped. Handle with great care.**

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. Remove control valve (4) and cable from tube (6).
5. Cut sleeve (6) and nut (1) from tube (7). Discard sleeve and nut.



**REPLACE EXTERNAL CABLE TUBE — Continued****0767 00**

6. Remove nut (1) and jam nut (2) from adapter (3). Remove adapter from support bracket (4).
7. Remove cable tube (5) from support bracket (4). Slide nut (1) and jam nut (2) from tube (5).
8. Loosen nut (6) on adapter (7).
9. Pull tube (5) through adapter (7). Remove adapter from hull plate.
10. Cut tube (5) above sleeve (8). Remove two nuts (6) and (9) and remove tube with sleeve (10). Discard tube and sleeve.



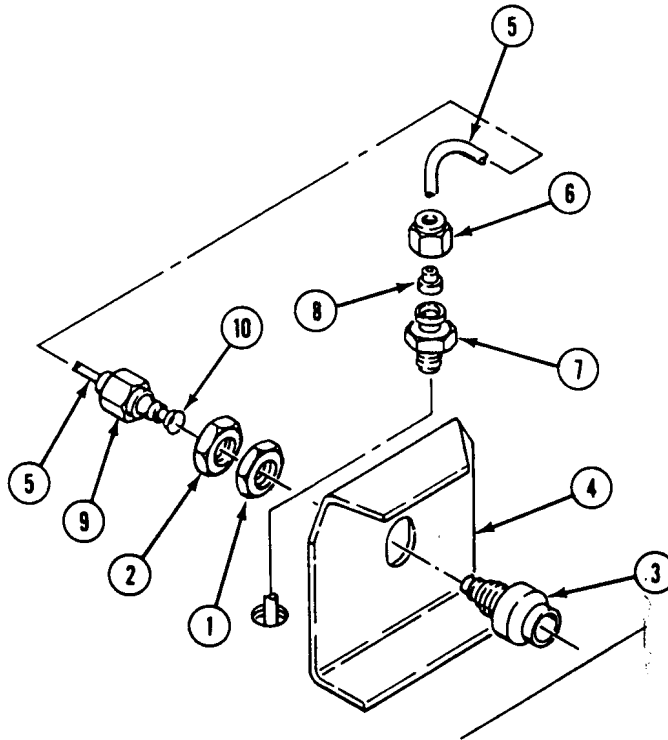
**INSTALLATION**

1. Install new sleeve (8), two nuts (6) and (9), and adapter (7) on new tube (5).

**NOTE**

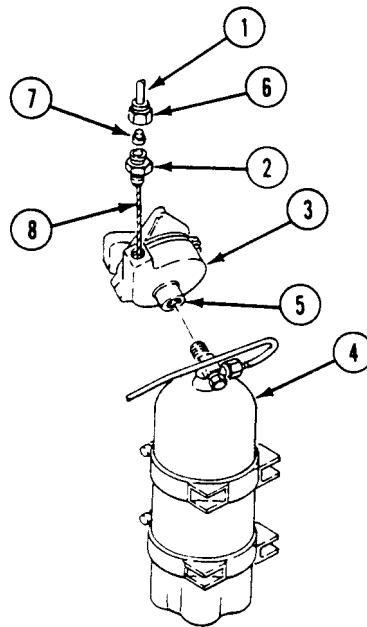
**Make sure nuts, sleeves, and adapter are installed in the proper order and facing the right direction as in illustration.**

2. Install adapter (7) in hull plate. Secure tube (5) 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 (5) on adapter (3). Secure with flared sleeve (10) and nut (9).



**REPLACE EXTERNAL CABLE TUBE — Continued****0767 00**

5. Slide tube (5) through hole in hull plate.
6. Install new adapter (10) on control valve (11).
7. Install control valve (11) on fire extinguisher cylinder (12). Secure with captive nut (13).
8. Install new nut (14) and new sleeve (15) on tube (5).
9. Route cable (16) through tube (5). Tighten nut (14) on adapter (10).

**FOLLOW-THROUGH STEPS**

1. Install external handle and insert (WP 0766 00).
2. Install external handle shield (WP 0763 00, WP 0764 00, or WP 0765 00).

**END OF TASK**





**REPLACE CYLINDER DISCHARGE TUBES**

**0768 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0768 00-1).
- Installation (page 0768 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

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 (if bottom discharge tube is to be removed) (WP 0131 00)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Materials/Parts

Lockwasher (6)

Personnel Required

Unit Mechanic

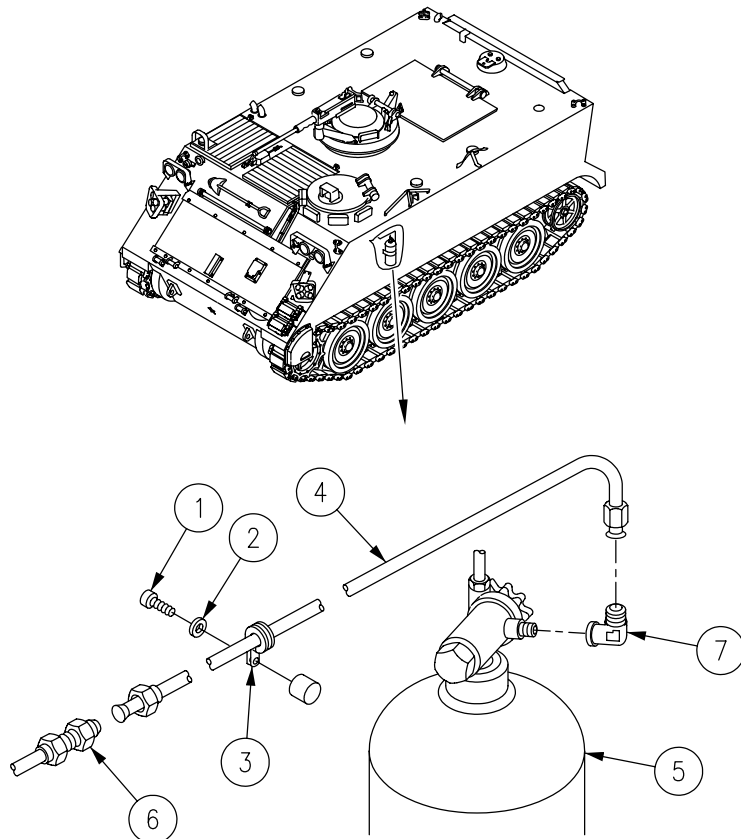
**REMOVAL**

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

**NOTE**

**If periscope power cable is stowed behind cylinder discharge tube, move cable away from work area to prevent damage to cable. Elbow will be removed for M1064 only.**

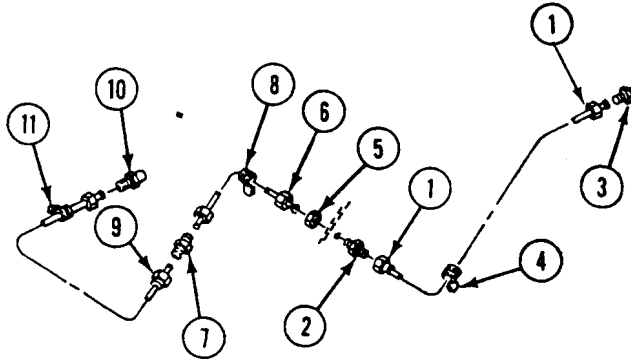
2. Remove tube (4) and elbow (7) from fire extinguisher cylinder (5) and nipple (6). Remove clamp (3) from tube.



## REPLACE CYLINDER DISCHARGE TUBES — Continued

0768 00

3. Remove tube (1) from nipple (2). Remove nipple (3) and clamp (4) from tube.
4. Remove nut (5) and nipple (2) from driver's bulkhead.
5. Remove tube (6) from nut (5) and nipple (7). Remove clamp (8) from tube.
6. Remove tube (9) from nipple (7).
7. Remove nozzle (10), and three clamps (11) from tube (9).

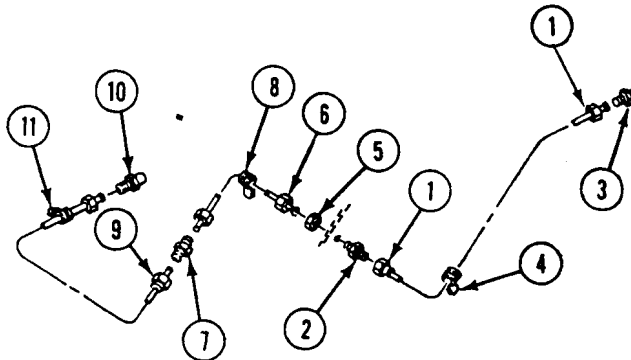


## INSTALLATION

## NOTE

If periscope power cable was removed, stow excess cable behind fire extinguisher.

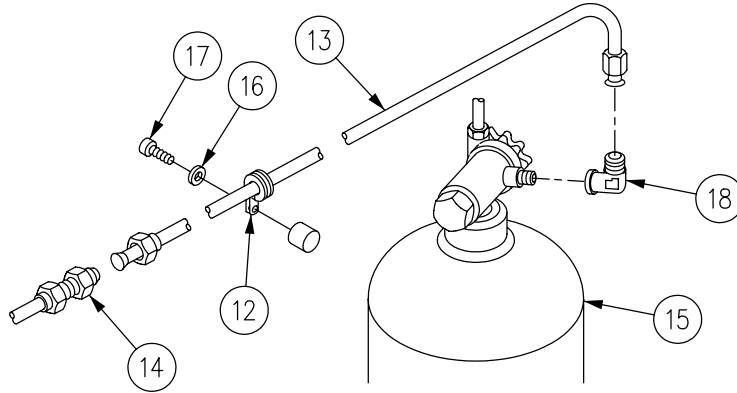
1. Place three clamps (11) on tube (9). Install nozzle (10) and nipple (7) on tube.
2. Install nipple (2) in driver's bulkhead. Secure with nut (5).
3. Place clamp (8) on tube (6). Install tube on two nipples (2) and (7).
4. Place clamp (4) on tube (1). Install two nipples (2) and (3) on tube.



**REPLACE CYLINDER DISCHARGE TUBES — Continued**

**0768 00**

5. Place clamp (12) and elbow (18) on tube (13). Install tube on nipple (14) and fire extinguisher cylinder (15).
6. Align six clamps (12) with six hull weldnuts. Secure clamps to weldnuts with six new lockwashers (16) and screws (17).



**FOLLOW-THROUGH STEPS**

1. If removed, install power plant (WP 0131 00).
2. Close power plant access door (see your -10).
3. Raise trim vane (see your -10).

**END OF TASK**



---

**REPLACE FIRE EXTINGUISHER CYLINDER AND MOUNT**

---

**0769 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0769 00-2).  
 Installation (page 0769 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)  
 Socket Wrench Set (WP 0780 00, Item 95)  
 Torque Wrench (WP 0780 00, Item 106)

Equipment Condition

Engine stopped (see your -10)  
 Carrier blocked (see your -10)  
 Control valve removed (WP 0766 00)  
 Discharge tube removed from cylinder (WP 0768 00)

Materials/Parts

Cotter pin (4)

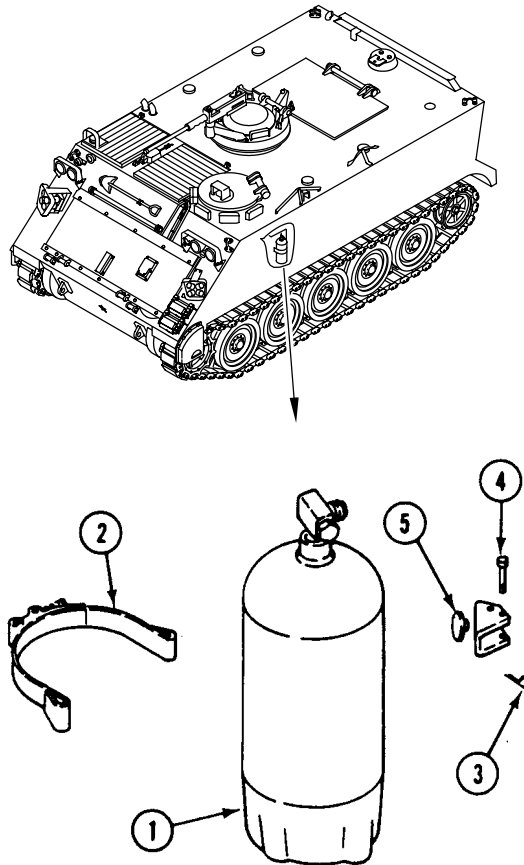
---

## REMOVAL

**WARNING**

**You could be injured if cylinder discharges when it is out of its mounting brackets or is dropped. Handle with great care.**

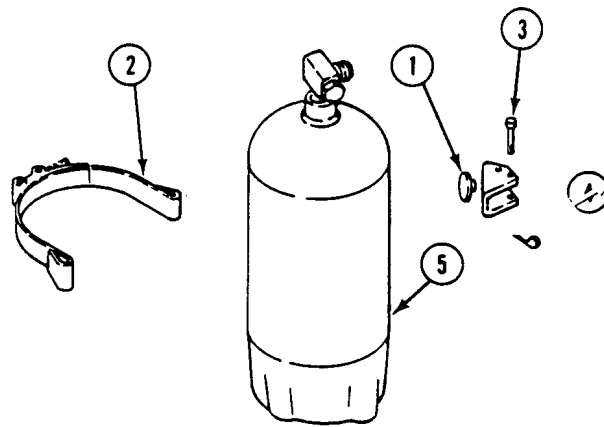
1. Support cylinder (1) and loosen two clamps (2). Remove cylinder from four hull brackets.
2. Remove four cotter pins (3), pins (4), and two clamps (2) from hull brackets. Discard cotter pins.
3. If needed, remove four bumpers (5) from hull brackets.



**INSTALLATION****NOTE**

The carbon dioxide (CO<sub>2</sub>) 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 (1) in hull brackets.
2. Place two clamps (2) on hull brackets. Secure with four pins (3) and new cotter pins (4).
3. Hold cylinder (5) on hull brackets. Secure with two clamps (2). TIGHTEN CLAMPS TO 51-59 LB-IN (5-6 N·M) TORQUE. Use torque wrench and socket set.

**FOLLOW-THROUGH STEPS**

1. Install discharge tube on cylinder (WP 0768 00).
2. Install control valve (WP 0766 00).

**END OF TASK**





---

**REPLACE PORTABLE FIRE EXTINGUISHER MOUNT (ALL EXCEPT M1068)**

---

**0770 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0770 00-2).  
Installation (page 0770 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Materials/Parts

Cotter pin (4)

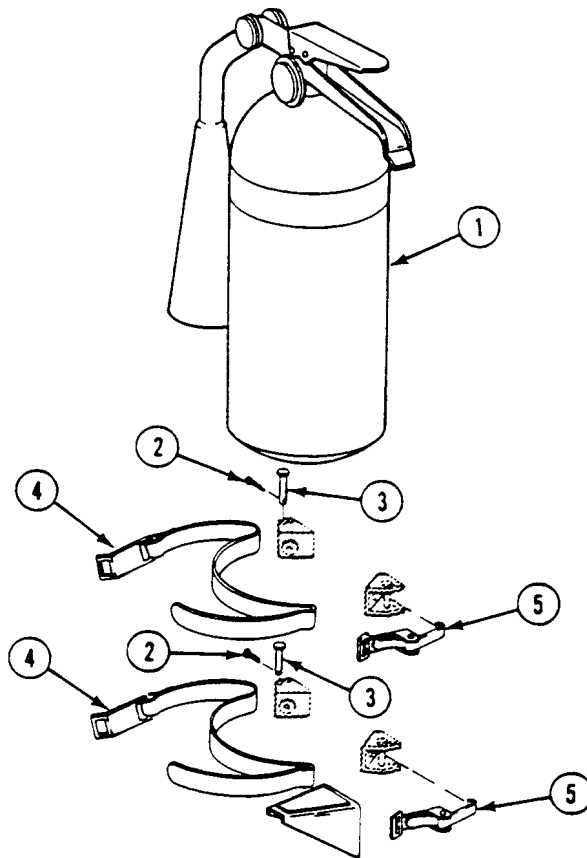
---

## REMOVAL

**WARNING**

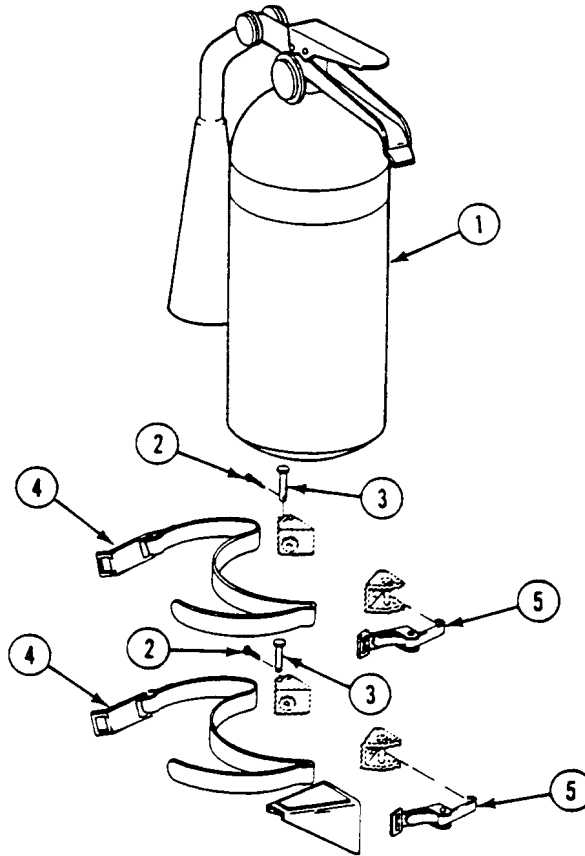
**You could be injured if cylinder discharges when it is out of its mounting brackets or is dropped. Handle with great care.**

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).



**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 (M1059 ONLY)**

---

**0771 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0771 00-2).
  - Clean, Inspect, and Repair (page 0771 00-3).
  - Installation (page 0771 00-3).
- 

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Materials/Parts

Locknut

---

REMOVAL

**WARNING**

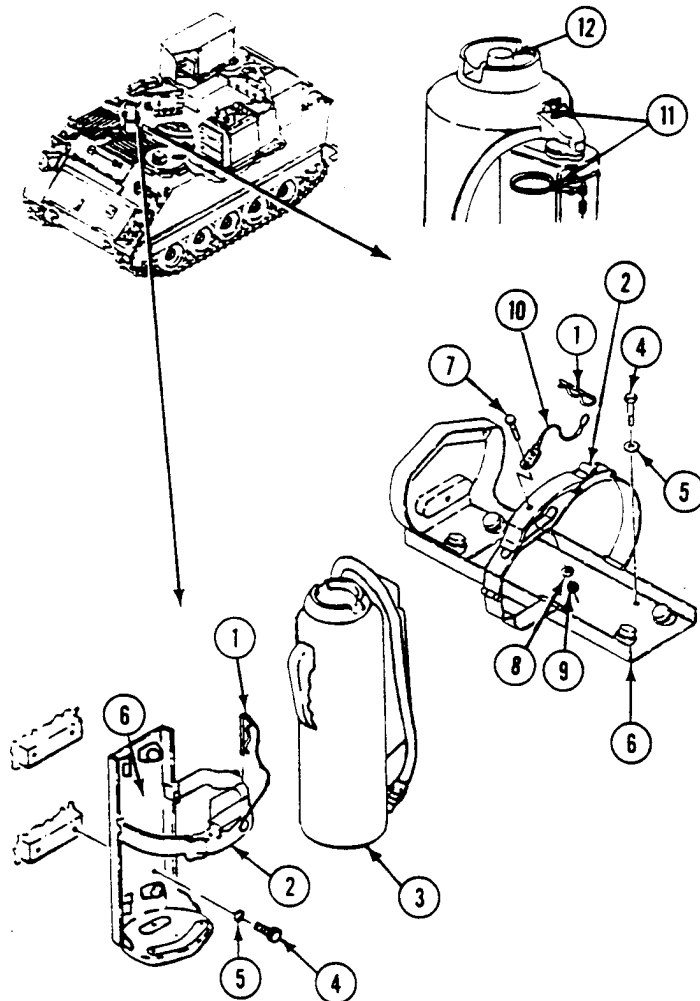


**You could be injured if cylinder discharges when it is out of its mounting brackets or is dropped. Handle with great care.**

**NOTE**

**Two fire extinguishers 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.

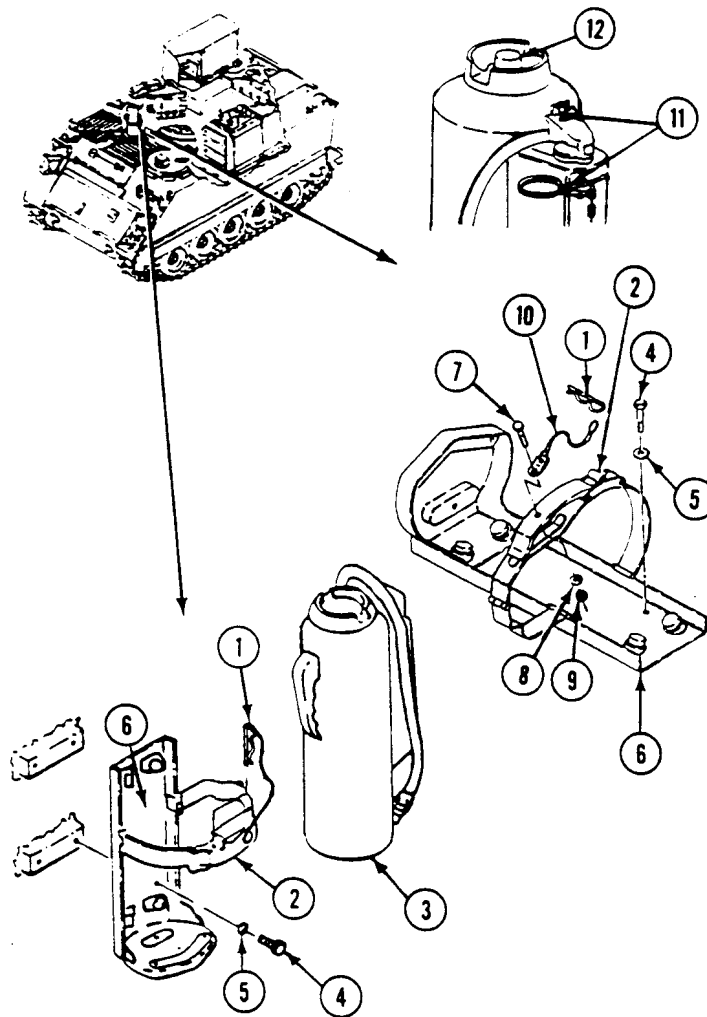


**CLEAN, INSPECT, AND REPAIR**

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 (3) in mount (6). Secure with strap (2).
4. Install pin (1) in strap (2).

**END OF TASK**





---

**REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER  
MOUNT (M1068 ONLY)**

---

**0772 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0772 00-2).
  - Disassembly (page 0772 00-3).
  - Assembly (page 0772 00-4).
  - Installation (page 0772 00-5).
- 

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

- Drill Set (WP 0780 00, Item 23)
- General Mechanic's Tool Kit (WP 0780 00, Item 29)
- Portable Electric Drill (WP 0780 00, Item 22)

Materials/Parts

- Cotter pin
- Lockwasher (4)
- Lockwasher (2)
- Rivet (as required)
- Rivet (2)

Personnel Required

Unit Mechanic

Equipment Condition

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

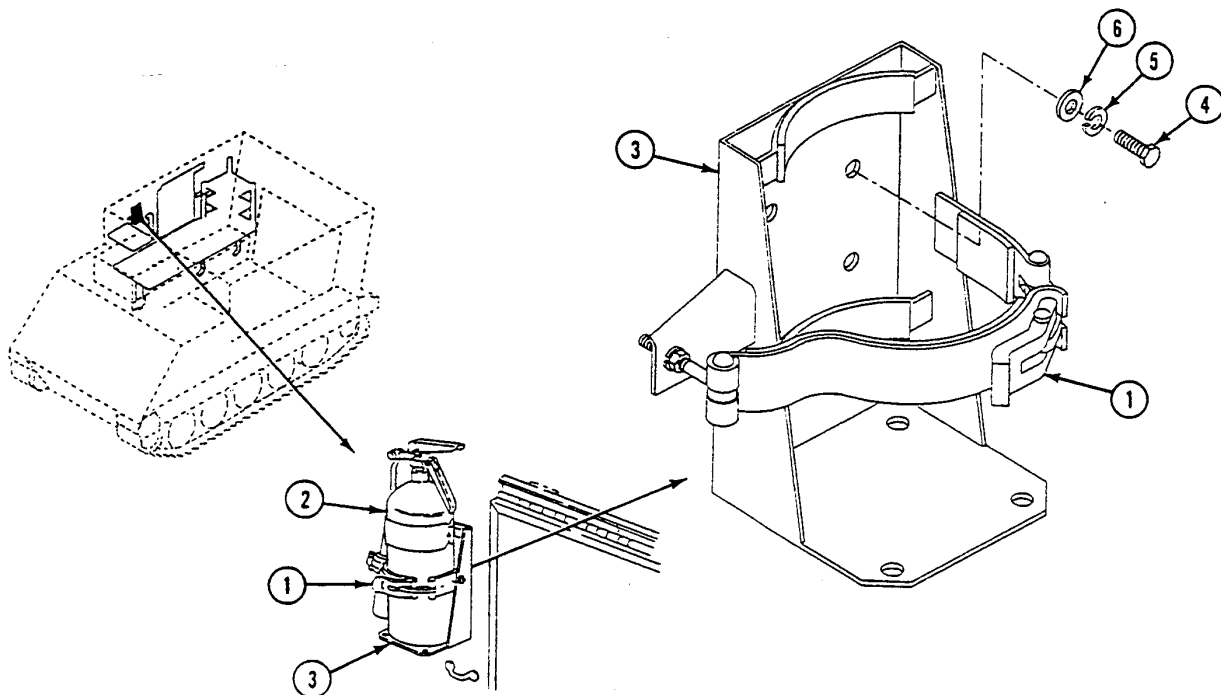
**REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER MOUNT (M1068 ONLY) — Continued**

0772 00

**REMOVAL****WARNING**

**You could be injured if cylinder discharges when it is out of its mounting brackets or is dropped. Handle with great care.**

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.

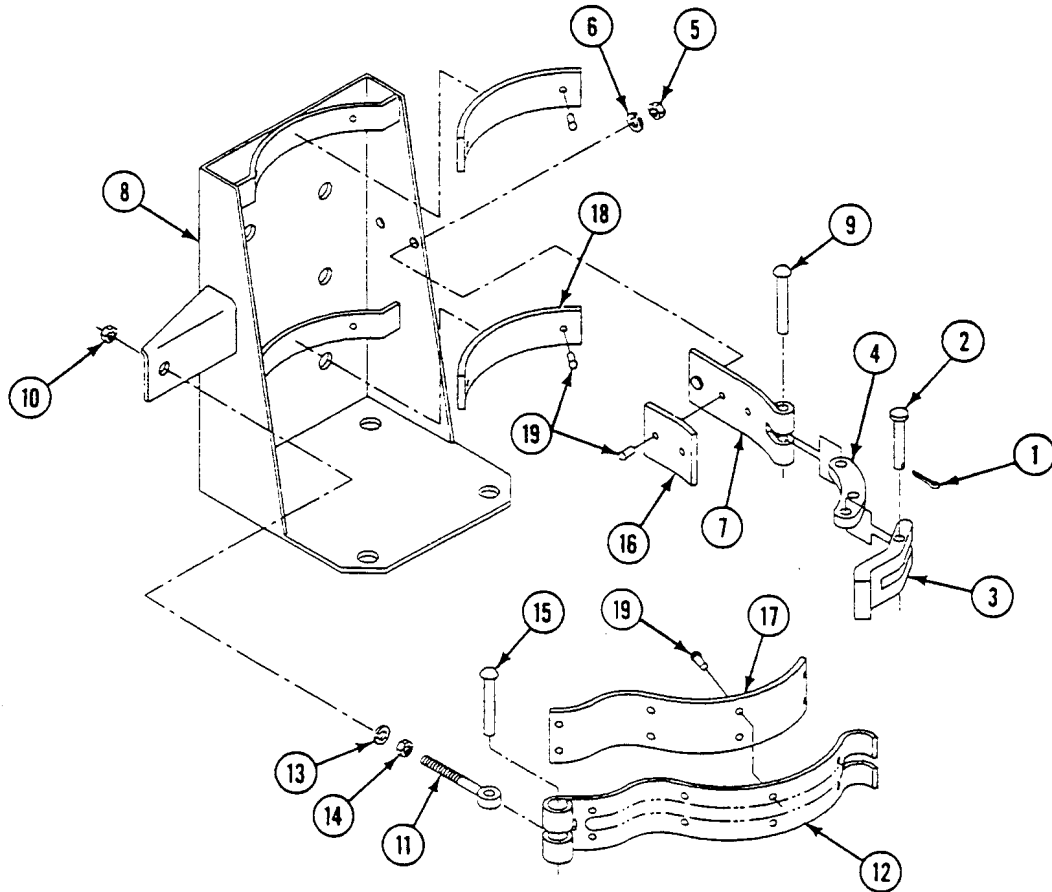


**REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER MOUNT (M1068 ONLY) — Continued**

0772 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), or (18) on arm assembly (7) or (12) or bracket (8) needs to be replaced, drill out rivets (19) and remove lining. Discard rivets.

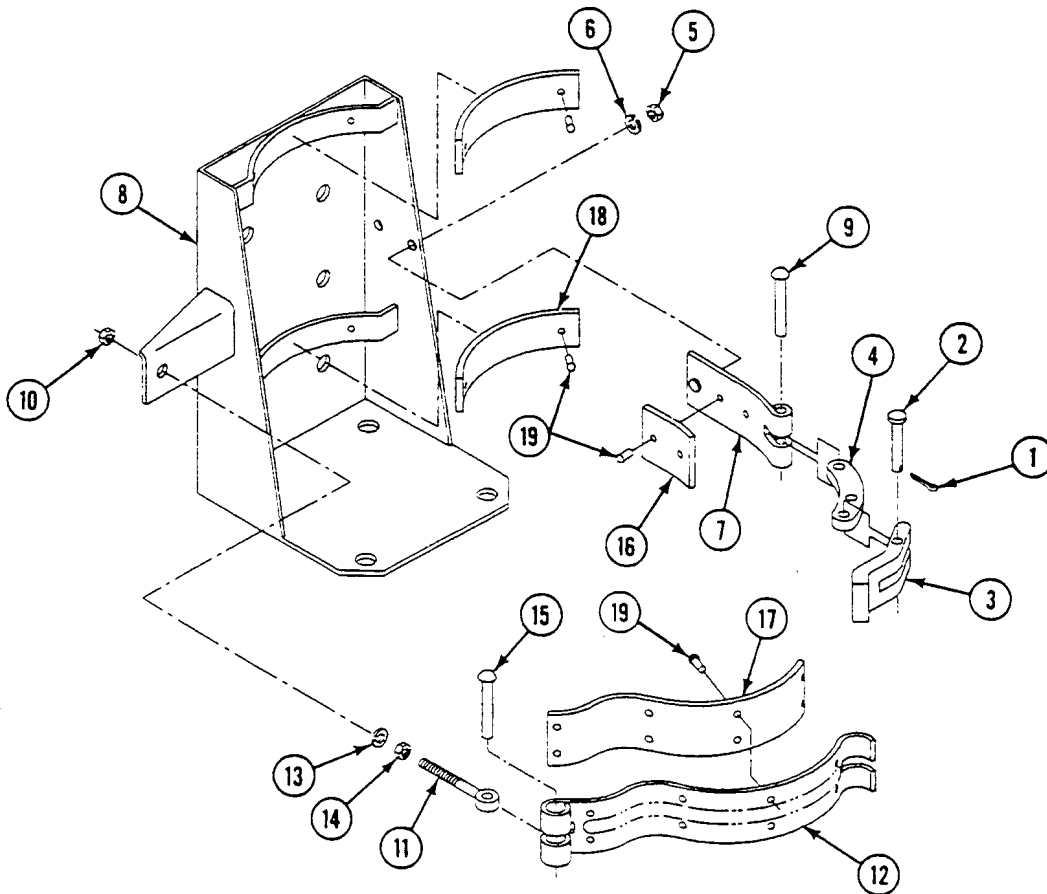


**REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER MOUNT (M1068 ONLY) — Continued**

**0772 00**

**ASSEMBLY**

1. If lining (16), (17), or (18) was removed from arm assembly (7) or (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).

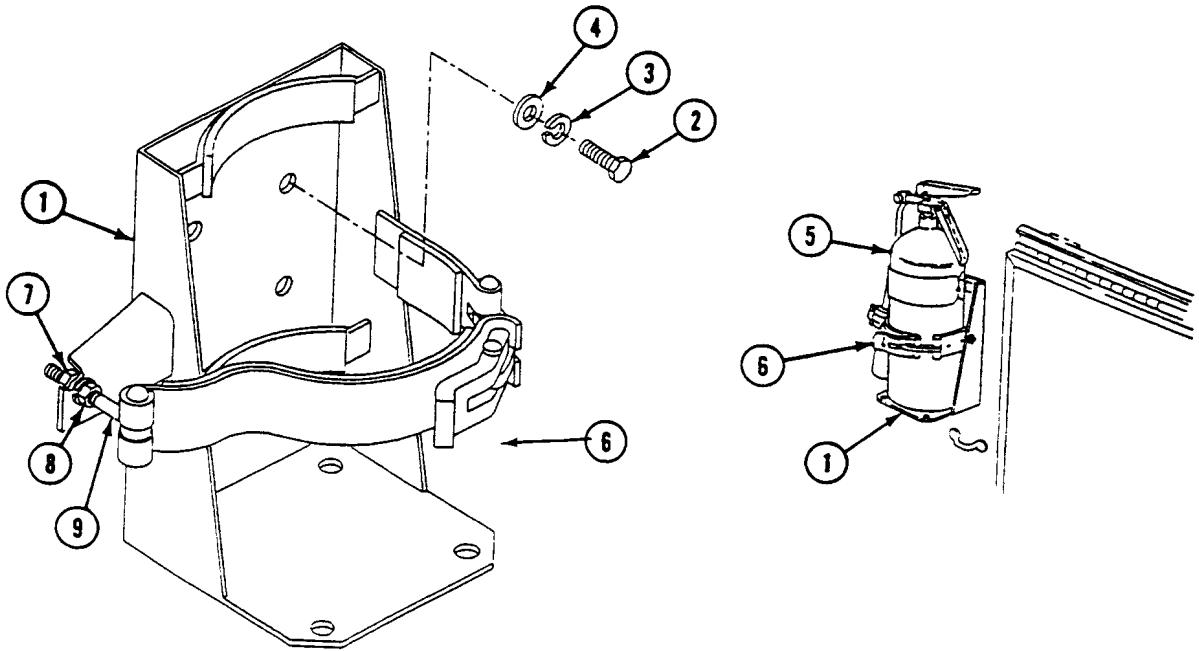


**REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER MOUNT (M1068 ONLY) — Continued**

**0772 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) or (8) on rod end connector (9) to clamp fire extinguisher securely.



**END OF TASK**



CHAPTER 44

UNIT MAINTENANCE INSTRUCTIONS  
FOR CHEMICAL AGENT AUTOMATIC ALARM KIT (M113A2 ONLY)

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| REPLACE M8 CHEMICAL ALARM DISTRIBUTION BOX (M113A2 ONLY)..... | 0773 00             |
| REPAIR M8 CHEMICAL ALARM JUNCTION BOX (M113A2 ONLY).....      | 0774 00             |
| REPLACE M42 ALARM UNIT CABLE (M113A2 ONLY).....               | 0775 00             |
| REPLACE CHEMICAL AGENT WIRING HARNESS (M113A2 ONLY).....      | 0776 00             |
| REPLACE ALARM KIT MOUNTING BRACKETS (M113A2 ONLY).....        | 0777 00             |





**REPLACE M8 CHEMICAL ALARM DISTRIBUTION BOX (M113A2 ONLY)**

**0773 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0773 00-1).  
 Installation (page 0773 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)  
 Socket Wrench Set (WP 0780 00, Item 96)  
 Torque Wrench (WP 0780 00, Item 100)

Equipment Condition

Engine stopped (see your -10)  
 Carrier blocked (see your -10)  
 Ramp lowered (see your -10)  
 Battery ground lead disconnected (WP 0294 00)

Materials/Parts

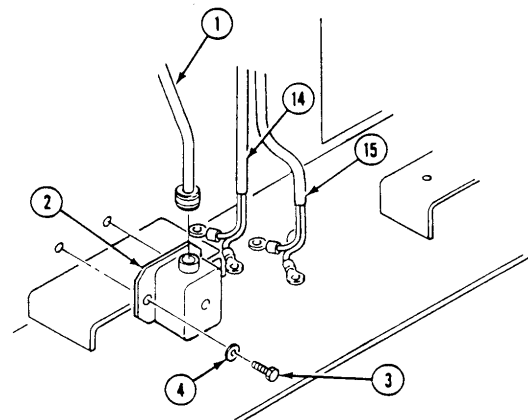
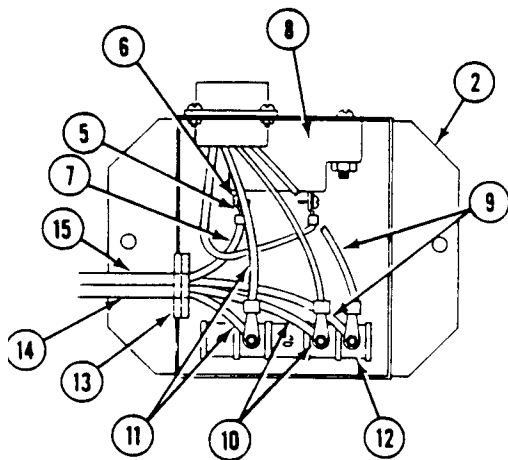
Grommet  
 Lockwasher  
 Lockwasher (2)

**REMOVAL**

**NOTE**

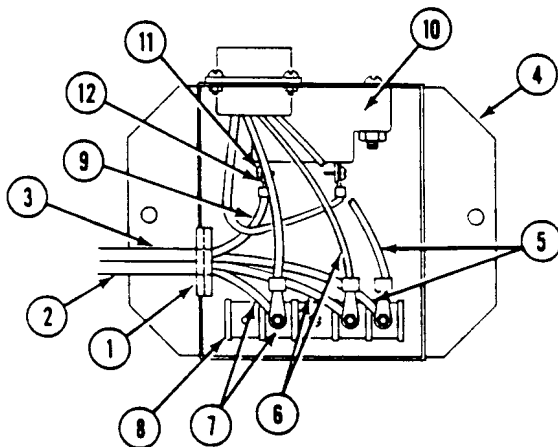
**Tag all leads for later installation**

1. Disconnect wiring harness (1) from distribution box (2).
2. Remove two mounting screws (3) and lockwashers (4) from distribution box (2). Remove distribution box. Discard lockwashers.
3. Remove screw (5), lockwasher (6), and circuit 6B lead (7) from circuit breaker (8). Discard lockwasher.
4. Disconnect circuits 7B and 7C (9), 509A and 509B (10), and 509C and 509D (11) from terminal board (12).
5. Remove grommet (13) and harness (14) and (15) from distribution box (2). Discard grommet.

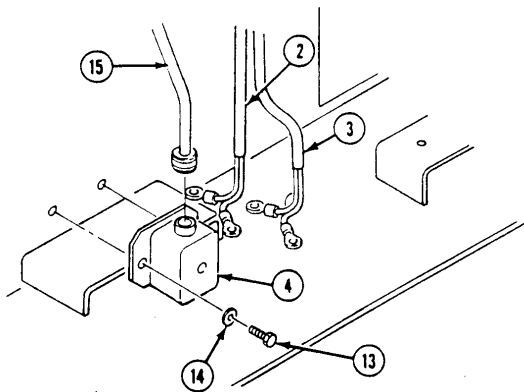


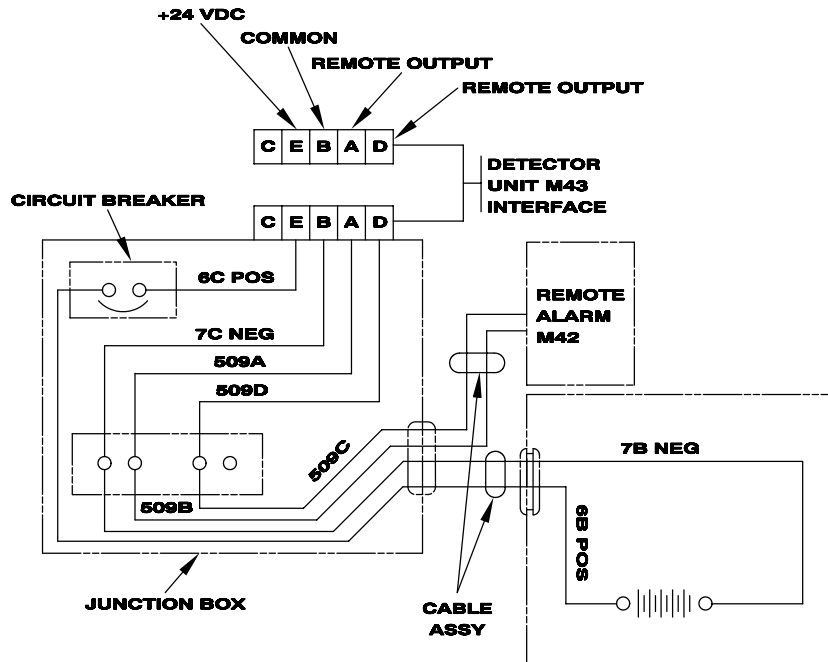
**INSTALLATION**

1. Place new grommet (1) on harness (2) and (3). Install grommet (1) and harness (2) and (3) in distribution box (4).
2. Pair up circuit leads 7B and 7C (5) and 509A and 509B (6) and 509C and 509D (7), and install on terminal board (8) as shown.
3. Install circuit lead 6B (9) on circuit breaker (10) terminal. Secure with screw (11) and new lockwasher (12).



4. Install two mounting screws (13) and new lockwashers (14) on distribution box (4). TORQUE SCREWS TO 73-79 LB-IN (8-9 N·M). Use torque wrench and socket set.
5. Connect wiring harness (15) to distribution box (4).





**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Raise and lock ramp (see your -10).
3. Stop engine (see your -10).

**END OF TASK**



---

**REPAIR M8 CHEMICAL ALARM JUNCTION BOX (M113A2 ONLY)**

---

**0774 00**

**THIS WORK PACKAGE COVERS:**

Disassembly (page 0774 00-2).  
Assembly (page 0774 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Distribution box removed (WP 0773 00)

Materials/Parts

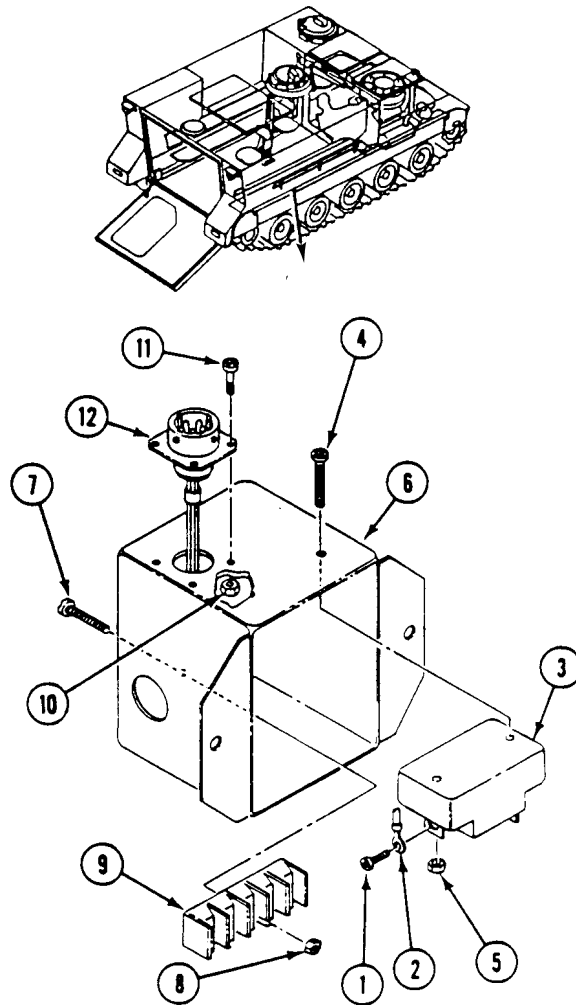
Locknut (3)

Locknut (4)

---

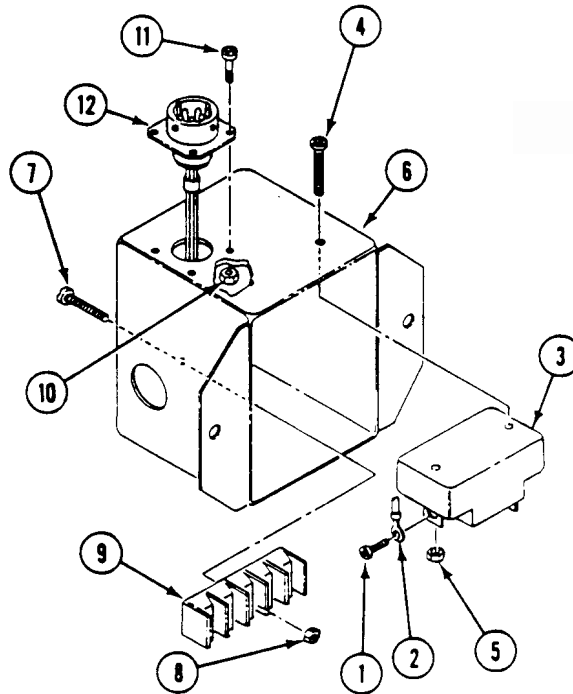
**DISASSEMBLY**

1. Remove screw (1) and lead (2) from circuit breaker (3).
2. Remove two screws (4), locknuts (5), from circuit breaker (3) and distribution box (6). Remove circuit breaker. Discard locknuts.
3. Remove screws (7), locknut (8), and terminal board (9) from distribution box (6). Discard locknut.
4. Remove four locknuts (10), screws (11), and receptacle (12) from distribution box (6). Discard locknuts.



**ASSEMBLY**

1. Install receptacle (12), four screws (11), and new locknuts (10) on distribution box (6).
2. Install circuit breaker (3) on distribution box (6). Secure with two screws (4) and new locknuts (5).
3. Secure lead (2) to circuit breaker (3) with screw (1).
4. Install terminal board (9), screw (7), and new locknut (8) in distribution box (6).

**FOLLOW-THROUGH STEPS**

1. Install distribution box (WP 0773 00).

**END OF TASK**





**REPLACE M42 ALARM UNIT CABLE (M113A2 ONLY)**

**0775 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0775 00-1).
- Installation (page 0775 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- Battery ground lead disconnected (WP 0294 00)
- Distribution box removed (WP 0773 00)

Tools and Special Tools

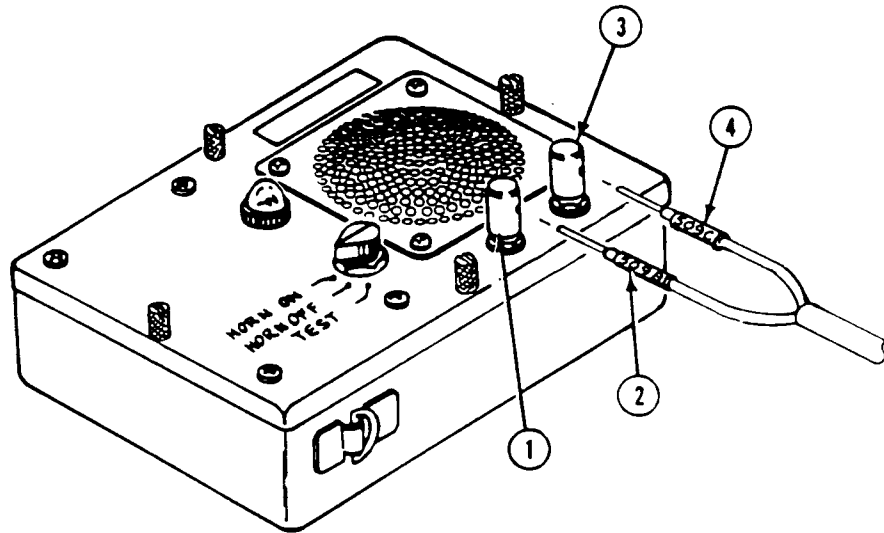
General Mechanic's Tool Kit (WP 0780 00, Item 29)

Personnel Required

Unit Mechanic

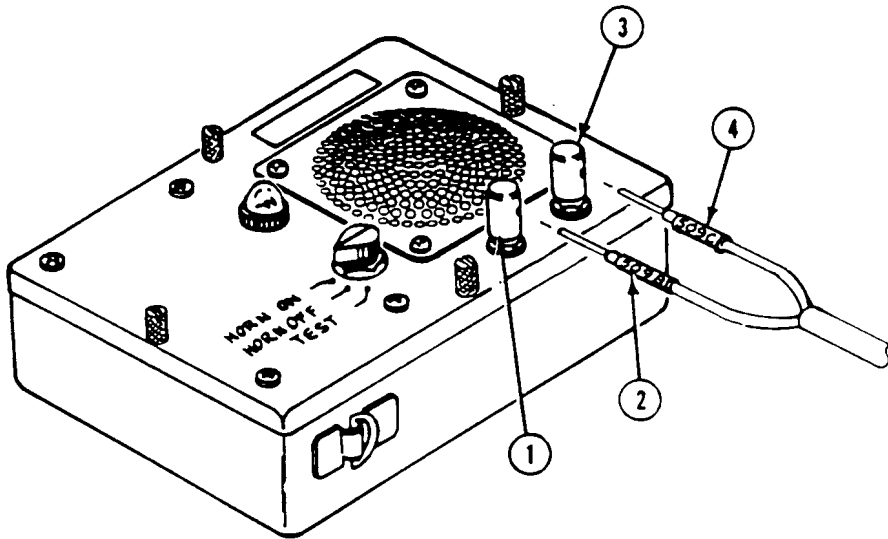
**REMOVAL**

1. Push in on terminal (1) and remove circuit lead 509B (2).
2. Push in on terminal (3) and remove circuit lead 509C (4).



**INSTALLATION**

1. Push in on terminal (3) and install circuit lead 509C (4).
2. Push in on terminal (1) and install circuit lead 509B (2).

**FOLLOW-THROUGH STEPS**

1. Connect circuit 509B and 509C leads to terminal board (WP 0773 00).
2. Install distribution box (WP 0773 00).
3. Connect battery ground lead (WP 0294 00).

**END OF TASK**

---

**REPLACE CHEMICAL AGENT WIRING HARNESS (M113A2 ONLY)**

---

**0776 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0776 00-2).  
 Installation (page 0776 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Helper (H)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0294 00)

Materials/Parts

Locknut (2)

Lockwasher (2)

---

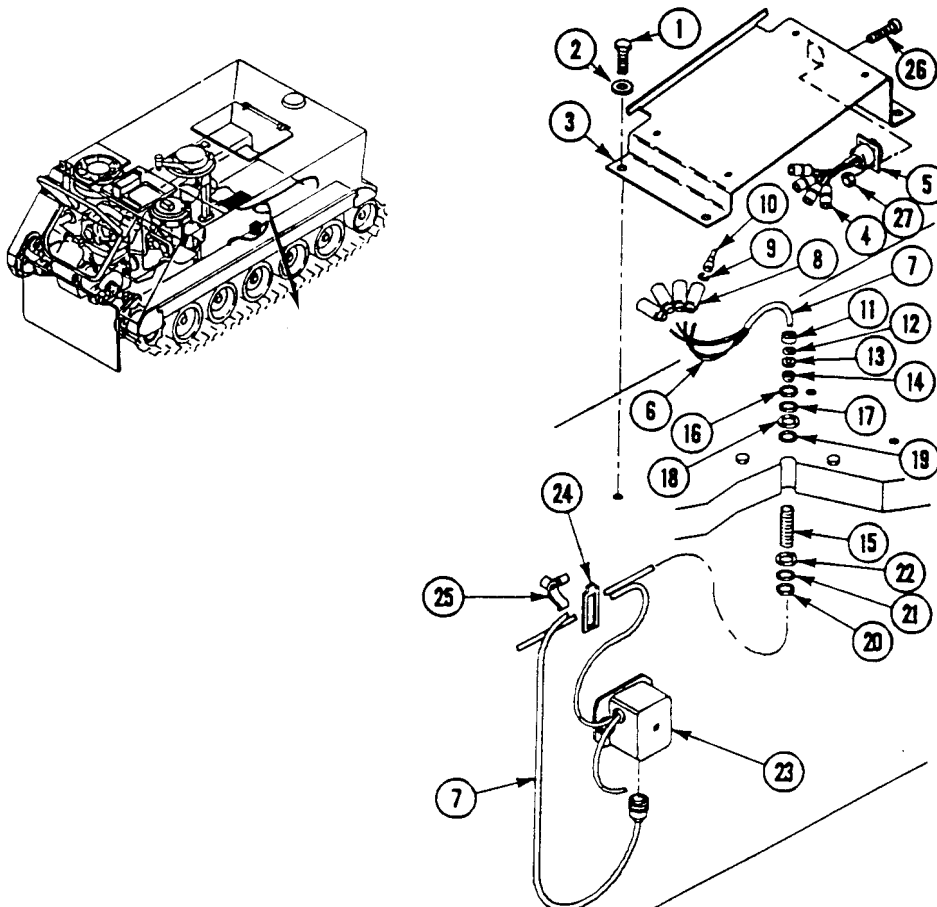
**REMOVAL**

1. Remove four screws (1) and washers (2) from hull and bracket (3).
2. Disconnect and tag four leads (4) of extension harness (5) from four leads (6) of main harness (7).

**NOTE**

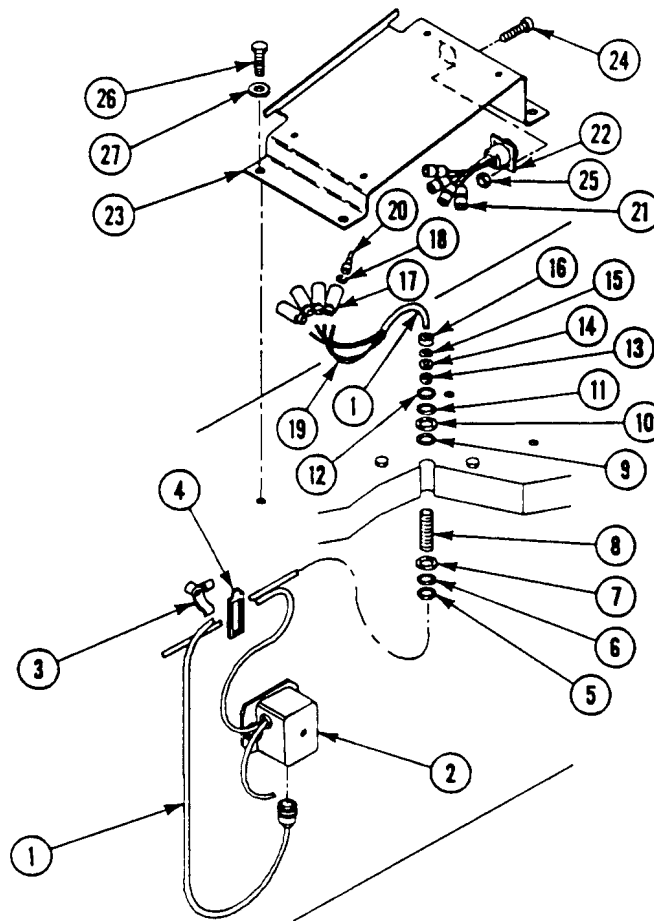
**If extension harness only is being replaced, go to REMOVAL Step 9 and INSTALLATION Step 9.**

3. Slide four shells (8) back on leads (6). Remove four slotted washers (9) and shells (8) from four leads (6) and contacts (10).
4. Remove coupling nut (11), spring washer (12), packing (13), and rubber bushing (14) from main harness (7) and bushing (15).
5. Remove locknut (16), lockwasher (17), washer (18), and washer insulator (19) from main harness (7) and bushing (15). Discard locknut and lockwasher.
6. Remove locknut (20), lockwasher (21), washer (22), and bushing (15) from hull and main harness (7). Remove and discard locknut and lockwasher from bushing.
7. Disconnect main harness (7) from distribution box (23).
8. Remove clip (24) and main harness (7) from cradle (25).
9. Remove four screws (26), nuts (27), and extension harness (5) from detector bracket (3).



**INSTALLATION**

1. Connect main harness (1) to distribution box (2).
2. Secure main harness (1) to cradle (3) with clip (4).
3. Slide new locknut (5), new lockwasher (6), washer (7), and new bushing (8) on main harness (1).
4. Insert main harness (1) and bushing (8) through top.
5. Install washer insulator (9) washer (10), new lockwasher (11), and new locknut (12) on main harness (1) and bushing (8).
6. Install rubber bushing (13), packing (14), spring washer (15), and coupling nut (16) on main harness (1) and bushing (8).
7. Tighten locknut (5).
8. Install four shells (17) and slotted washers (18) on leads (19) and contacts (20).
9. Connect four leads (19) of main harness (1) to four leads (21) of extension harness (22).
10. Install extension harness (22) on detector bracket (23) with four screws (24) and nuts (25).
11. Install detector bracket (23) on hull with four screws (26) and washers (27).



**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).

**END OF TASK**



---

**REPLACE ALARM KIT MOUNTING BRACKETS (M113A2 ONLY)**

---

**0777 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0777 00-2).  
 Installation (page 0777 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0780 00, Item 29)  
 Socket Wrench Set (WP 0780 00, Item 96)  
 Torque Wrench (WP 0780 00, Item 102)

References

TM 3-6665-225-12

Equipment Condition

Engine stopped (see your -10)  
 Carrier blocked (see your -10)  
 Ramp lowered (see your -10)  
 Battery ground lead disconnected (WP 0294 00)

Materials/Parts

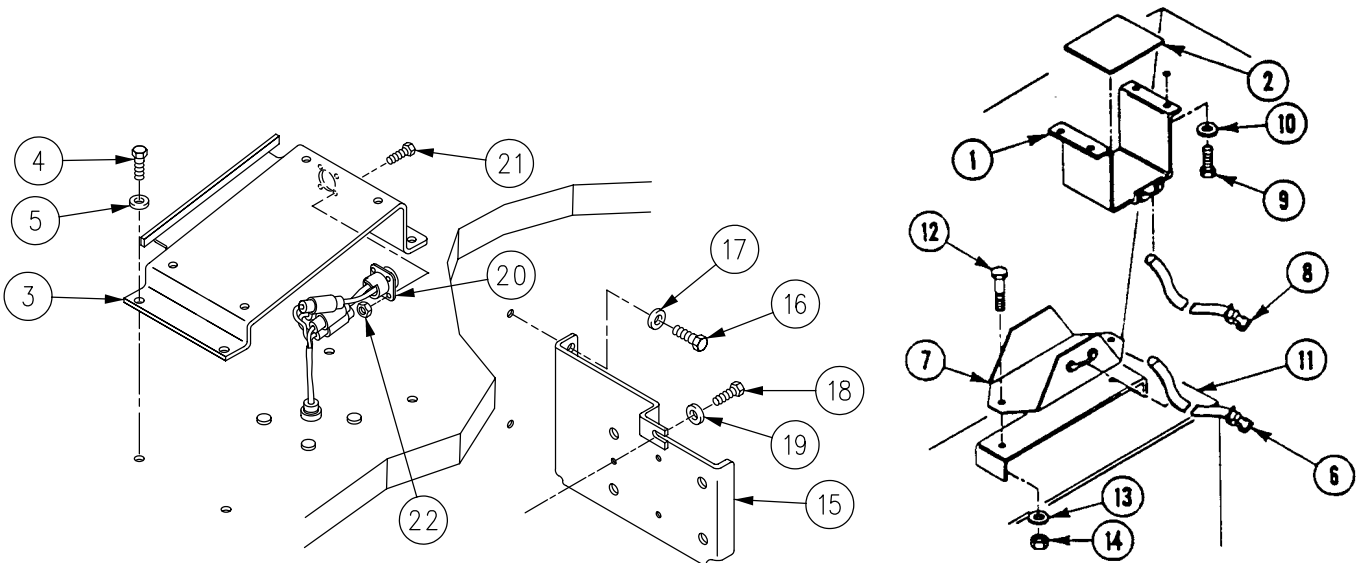
Adhesive (WP 0782 00, Item 2)  
 Locknut (2)  
 Lockwasher (3)

---



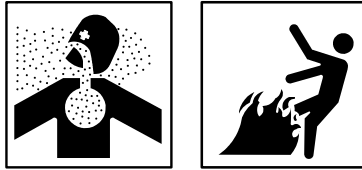
**REMOVAL**

1. Remove strap (6) from refill bracket (7).
2. Remove refill unit from refill bracket (7). See TM 3-6665-225-12.
3. Remove two locknuts (14), screws (12), washers (13), and refill bracket (7) from battery box cover (11). Discard locknuts.
4. Remove alarm unit from bracket (15). See TM 3-6665-225-12.
5. Remove two screws (16), lockwashers (17), and bracket (15) from bulkhead. Discard lockwashers.
6. Remove screw (18), lockwasher (19), and bracket (15) from radio shelf. Discard lockwasher.
7. Remove strap (8) and battery from bracket (1).
8. Remove five screws (9), washers (10), and bracket (1) from hull top.
9. If damaged, remove pad (2) from bracket (1). Discard pad.
10. Remove detector unit from bracket (3). See TM 3-6665-225-12.
11. Remove four screws (4), washers (5), and bracket (3) from hull.
12. Remove four screws (21), nuts (22), and harness connector (20) from bracket (3).



INSTALLATION

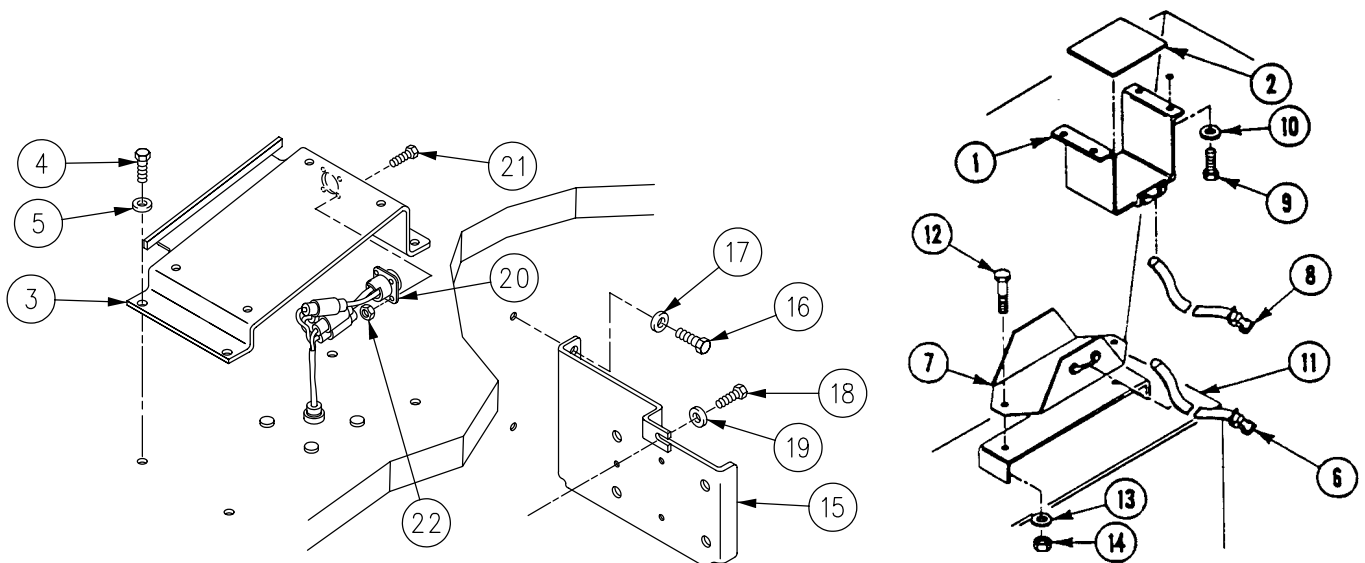
**WARNING**



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

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

1. Apply a thin coat of adhesive to mating surfaces of bracket (1) and new pad (2). Allow 10-20 minutes drying time. Press surfaces together firmly.
2. Secure bracket (3) to top of carrier with four screws (4) and washers (5). TIGHTEN SCREWS TO 264-284 LB-IN (30-32 N·M) TORQUE. Use torque wrench.
3. Install harness connector (20) on bracket (3). Secure with four screws (21) and nuts (22).
4. Install detector unit in bracket (3). See TM 3-6665-225-12.
5. Install strap (6) on bracket (7). Install strap (8) on bracket (1).
6. Secure bracket (1) to hull top with four screws (9) and washers (10). TIGHTEN SCREWS TO 264-284 LB-IN (30-32 N·M) TORQUE. Use torque wrench.
7. Install battery in bracket (1). Secure with strap (8). See TM 3-6665-225-12.
8. Secure refill bracket (7) to battery box cover (11) with two screws (12), washers (13), and new locknuts (14).
9. Install refill unit in bracket (7). Secure with strap (6). See TM 3-6665-225-12.
10. Install alarm unit bracket (15) on bulkhead. Secure with two screws (16) and new lockwashers (17).
11. Secure alarm unit bracket (15) to radio shelf with screw (18) and washer (19).



**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0294 00).
2. Raise and lock ramp (see your -10).
3. Stop engine (see your -10).

**END OF TASK**

CHAPTER 45

UNIT SUPPORTING INFORMATION

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| REFERENCES.....   | .0778 00            |
| MAINTENANCE ALLOCATION CHART (MAC).....                           | .0779 00            |
| COMMON TOOLS AND SUPPLEMENTS AND SPECIAL TOOLS/FIXTURES LIST..... | .0780 00            |
| FABRICATED TOOLS.....   | .0781 00            |
| EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST.....               | .0782 00            |
| M113A2 ELECTRICAL WIRING DIAGRAM 100 AMP GENERATOR.....           | FO-1                |
| M113A2 ELECTRICAL WIRING DIAGRAM 200 AMP GENERATOR.....           | FO-2                |
| M577A2 ELECTRICAL WIRING DIAGRAM.....                             | FO-3                |
| M901A1 ELECTRICAL WIRING DIAGRAM.....                             | FO-4                |
| M1064 ELECTRICAL WIRING DIAGRAM (200 AMP)(1 OF 4).....            | FO-5                |
| M1064 ELECTRICAL WIRING DIAGRAM (200 AMP)(2 OF 4).....            | FO-5                |
| M1064 ELECTRICAL WIRING DIAGRAM (200 AMP)(3 OF 4).....            | FO-5                |
| M1064 ELECTRICAL WIRING DIAGRAM (200 AMP)(4 OF 4).....            | FO-5                |
| M1068 ELECTRICAL WIRING DIAGRAM.....                              | FO-6                |
| M1068 ELECTRICAL COMMUNICATION EQUIPMENT (1 OF 3).....            | FO-7                |
| M1068 ELECTRICAL COMMUNICATION EQUIPMENT (2 OF 3).....            | FO-7                |
| M1068 ELECTRICAL COMMUNICATION EQUIPMENT (3 OF 3).....            | FO-7                |
| M1068 POWER CONTROL ENCLOSURE (1 OF 2).....                       | FO-8                |
| M1068 POWER CONTROL ENCLOSURE (2 OF 2).....                       | FO-8                |
| M1059 ELECTRICAL WIRING DIAGRAM.....                              | FO-9                |



**REFERENCES****0778 00****SCOPE**

This appendix lists all technical manuals, lubrication orders, miscellaneous publications, and forms referenced in this manual.

**TECHNICAL MANUALS**

|  |                     |
|--|---------------------|
| Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Purifier, Air; M2A2 and Precleaner and Particulate Filter Assembly; M1A1-19.....   | TM 3-4240-276-30&P  |
| Generator Set, Smoke, Mechanical; Pulse Jet, M157A2, W/120 Gallon Fog Oil Tank.....  | TM 3-1040-283-10    |
| Inspection, Care, and Maintenance of Antifriction Bearings.....  | TM 9-214            |
| Operator's and Organizational Manual; Alarm, Chemical Agent, Automatic, Portable.....  | TM 3-6665-255-12    |
| Operator's Manual for Mortar, 120MM: Towed M120 and Mortar, 120MM: Carrier-Mounted M121 .....  | TM 9-1015-250-10    |
| Operator's Manual for Carrier, Personnel, Full Tracked; Armored Fire Support, M981.....  | TM 9-2350-266-10    |
| Operator's Manual for Carriers, Personnel, Full Tracked, Armored, M113A2; Carrier, Command Post, Light Tracked, M577A2; Carrier, Mortar, 120MM, M121, Self-Propelled, M1064; Carrier, Standardized Integrated Command Post System, M1068; Carrier Smoke Generator, Full Tracked, M1059; Combat Vehicle, Anti-Tank, Improved Tow Vehicle, M901A1..... | TM 9-2350-261-10    |
| Operator's Manual for Combat Vehicle, Anti-Tank, Improved Tow Vehicle, M901A1.....   | TM 9-2350-259-10    |
| Operator's Manual for Tester, Airflow, Gas-Particulate Filter Unit; M39.....   | TM 3-6680-316-10    |
| Operator's and Organizational Maintenance Manual Including Repair Parts and Special Tools List for Simplified Test Equipment for Internal Combustion Engines.....  | TM 9-4910-571-12&P  |
| Operator's and Unit Maintenance Manual (Including Repair Parts and Special Tools Lists) for Tactical Command Systems used in M1068 Standardized Integrated Command Post System (SICPS).....  | TM 11-7010-256-12&P |
| 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 |
| Operator's, Unit, Direct Support and General Support Maintenance Manual for Lead-Acid Storage Batteries.....   | TM 9-6140-200-14    |
| Organizational, Direct Support, and General Support Maintenance Manual (Including Repair Parts and Special Tools List) for; Heaters, Vehicular Compartment.....  | TM 9-2540-205-24&P  |
| Organizational, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Combat Vehicle, Anti-Tank, Improved Tow Vehicle, M901A1.....  | TM 9-2350-259-24P   |
| Operator, Unit, Direct Support and General Support Maintenance (Including Repair Parts and Special Tools List) for Heater, Vehicular Compartment Model A-20.....   | TM 9-2540-207-14&P  |
| Operator, Unit, and Direct Support Maintenance Manual with Repair Parts and Special Tools List 5KW, 28VDC Auxiliary Power Unit (APU).....  | TM 9-6115-664-13&P  |
| Painting Instructions for Army Materiel.....   | TM 43-0139          |
| Procedures for Destruction of Electronics Materiel to Prevent Enemy Use.....   | TM 750-244-2        |

**REFERENCES — Continued**

**0778 00**

Procedures for Destruction of Equipment in Federal Supply Classifications 1000, 1005, 1010, 1015, 1020, 1025, 1030, 1055, 1090, and 1095 to Prevent Enemy Use.....TM 750-244-7

Procedures for Destruction of Tank-automotive Equipment to Prevent Enemy Use.....TM 750-244-6

Unit, Direct Support and General Support Maintenance Manual Standards for Inspection and Classification of Tracks, Track Components and Solid-Rubber Tires .....TM 9-2530-200-24

Unit and Direct Support Maintenance (Including Repair Parts and Special Tools List) (Including Depot Repair Parts) for Mortar, 120MM; Towed M120; Mortar 120MM; Carrier-Mounted M121; Trailer, Mortar, 120MM; M1100.....TM 9-1015-250-23&P

Unit and Intermediate Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for 107MM Mortar Turntable and Mount, 81MM Mortar Turntable and Mount, and 81MM Mortar Bipod Assembly.....TM 9-1015-232-23&P

Unit Maintenance, Direct Support and General Support Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools List) for Carriers, Personnel, Full Tracked, Armored, M113A2; Carrier, Command Post, Light Tracked, M577A2; Carrier, Mortar, 120MM, M121, Self-Propelled, M1064; Carrier, Standardized Integrated Command Post System, M1068; Carrier, Smoke Generator, Full Tracked, M1059, Combat Vehicle, Anti-Tank, Improved Tow Vehicle, M901A1.....TM 9-2350-261-24P

Unit Maintenance Manual (Including Repair Parts and Special Tool List) for Generator Set, Smoke, Mechanical; Pulse Jet, M157A2, W/120 Gallon Fog Oil Tank.....TM 3-1040-283-20&P

Unit Maintenance Manual for Combat Vehicle, Anti-Tank, Improved TOW Vehicle, M901A1 .....TM 9-2350-259-20

**FIELD MANUALS**

First Aid.....FM 4-25.11

Desert Operations.....FM 90-3

Operator's Circular Welding Theory and Application .....TC 9-237

Operation and Maintenance of Ordnance Materiel in Cold Weather .....FM 9-207

**LUBRICATION ORDERS**

Lubrication Order: Combat Vehicle, Anti-Tank, Improved TOW M901.....LO 9-2350-259-12

**OTHER PUBLICATIONS**

Army Oil Analysis Program (AOAP).....TB 43-0211

CARC Spot Painting .....TB 43-0242

Expendable Items (except Medical, Class V, Repair Parts and Heraldic Items).....CTA 50-970

Operator's Circular Welding Theory and Application .....TC 9-237

The Army Maintenance Management System (TAMMS).....DA Pam 738-750

Use of Antifreeze Solutions, Antifreeze Extender, Cleaning Compounds and Test Kit in Engine Cooling Systems .....TB 750-651

**FORMS**

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

Equipment Inspection and Maintenance Worksheet.....DA Form 2404  
 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 Deficiency Report.....SF 368  
 Recommended Changes to Publications and Blank Forms.....DA Form 2028

**MILITARY SPECIFICATIONS**

Additive, Antifreeze Extender, Liquid Cooling Systems .....MIL-A-53009A(1)  
 Carriers, Personnel, Full-Track, Armored; M113A2 and M113A3; Mortars, Self-Propelled;  
 M106A2 (107MM), M125A2 (81MM) and M1064, M1064A3 (120MM); Smoke  
 GeneratorS: M1059, M1059A3 and M58; Processing for Storage and Shipment of .....MIL-DTL-45306H  
 Coating, Epoxy, High Solids .....MIL-PRF-22750F  
 Fuel Oil, Diesel; for Posts, Camps and Stations .....A-A-52557A  
 Grease, Aircraft and Instrument, Gear and Actuator Screw.....MIL-PRF-23827C(1)  
 Grease, Automotive and Artillery .....MIL-PRF-10924H  
 Grease, Wire Rope - Exposed Gear .....MIL-PRF-18458C  
 Hydraulic Fluid, Rust Inhibited, Fire Resistant, Synthetic Hydrocarbon Base.....MIL-PRF-46170D  
 Lubricating Oil, Gear, Multipurpose (Metric) .....MIL-PRF-2105E  
 Lubricating Oil, General Purpose, Preservative (Water-Displacing, Low Temperature) .....MIL-PRF-32033(1)  
 Lubricating Oil, Internal Combustion Engine, Arctic .....MIL-PRF-46167C  
 Lubricating Oil, Internal Combustion Engine, Combat/Tactical Service .....MIL-PRF-2104H  
 Lubricating Oil, Internal Combustion Engine, Preservative Break-In .....MIL-PRF-21260E  
 Lubricating Oil, Preservative, Medium .....MIL-PRF-3150D(2)





## 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.

Section V. The MAC for the mounts and turntables used on the M1064 for the M121, 4.7 inch, 120-mm mortar is in TM 9-1015-250-23. The maintenance allocation chart for the turntable used in the M1064 is in TM 9-1015-232-23. The MAC for the M157 Pulse Jet Generator set used in M1059 is in TM 3-1040-283-20&P. The MAC for the M901 Turret is covered in TM 9-2350-259-20. The MAC for the M981 Turret and Communication Equipment is covered in TM 9-2350-266-20. The MAC for the M1068 Common Hardware System (CHS) is covered in TM 11-7010-256-12&P. The MAC for the M1068 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.

## 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.

- (1) *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, page 0779 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.

Table 1. MAINTENANCE ALLOCATION CHART, SECTION II

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY   | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|------------------------|---------------------------------|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|                        |                                 |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|                        |                                 |                                | C                        | O   | F                 | H                  | D     |   |                        |
| 01                     | ENGINE                          |                                |                          |     |                   |                    |       |   |                        |
| 0100                   | POWER PLANT                     | Remove                         |                          | 2.5 |                   |                    |       | 1   | A                      |
|                        |                                 | Install                        |                          | 3.0 |                   |                    |       | 1   |                        |
| 0100                   | ENGINE                          | Test                           |                          | 0.1 |                   |                    |       | 2 3 4 5 6                                 |                        |
|                        |                                 | Service                        |                          | 0.2 |                   |                    |       |   | J                      |
|                        |                                 | Replace                        |                          |     | 7.0               |                    |       | 1   |                        |
|                        |                                 | Repair                         |                          |     |                   |                    |       | 7 8 9                                     | B                      |
|                        |                                 | Overhaul                       |                          |     |                   |                    | 50.0  |   |                        |
|                        | HEAD CYLINDER                   | Inspect                        |                          |     | 0.5               |                    |       |   |                        |
|                        |                                 | Replace                        |                          |     | 0.9               |                    |       | 10  |                        |
|                        |                                 | Repair                         |                          |     | 12.0              |                    |       | 11 12 13                                  |                        |
|                        |                                 | Overhaul                       |                          |     |                   |                    | 12.0  |   |                        |
|                        | SLEEVE, CYLINDER                | Replace                        |                          |     |                   |                    | 7.2   | 14  |                        |
| 0102                   | SEAL, OIL,<br>CRANKSHAFT, FRONT | Replace                        |                          |     | 4.0               |                    |       | 15  |                        |
|                        | SEAL, OIL,<br>CRANKSHAFT, REAR  | Replace                        |                          |     | 4.0               |                    |       | 16  |                        |
|                        | CRANKSHAFT                      | Replace                        |                          |     |                   |                    | 17.0  |   |                        |
|                        |                                 | Repair                         |                          |     |                   |                    | 0.5   |   |                        |
| 0103                   | FLYWHEEL                        | Replace                        |                          |     | 5.2               |                    |       | 17  |                        |
|                        |                                 | Repair                         |                          |     |                   |                    | 0.5   |   |                        |
|                        | HOUSING, FLYWHEEL               | Replace                        |                          |     |                   |                    | 3.5   | 18  |                        |
| 0104                   | PISTONS                         | Replace                        |                          |     |                   |                    | 16.0  | 19 20                                     |                        |
|                        | RINGS                           | Replace                        |                          |     |                   |                    | 16.5  | 21  |                        |
|                        | RETAINER, PISTON<br>PIN         | Replace                        |                          |     |                   |                    | 16.5  | 22  |                        |
| 0105                   | ARM, ROCKER                     | Adjust                         |                          |     | 1.0               |                    |       |   |                        |
|                        |                                 | Replace                        |                          |     | 2.0               |                    |       |   |                        |
|                        |                                 | Repair                         |                          |     | 2.0               |                    |       |   |                        |
|                        | CAMSHAFT                        | Replace                        |                          |     |                   |                    | 26.0  | 23  |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY | (3)<br>MAINTENANCE<br>FUNCTION   | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |  |
|------------------------|-------------------------------|----------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|--|
|                        |                               |                                  | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |  |
|                        |                               |                                  | C                        | O   | F                 | H                  | D     |   |                        |  |
| 0106                   | GEAR, TIMING,<br>CAMSHAFT     | Replace                          |                          |     |                   | 4.0                |       | 24  |                        |  |
|                        | GEAR, TIMING,<br>CRANKSHAFT   | Replace                          |                          |     |                   | 4.0                |       | 25 26                                     |                        |  |
|                        | GUIDE, VALVE                  | Replace                          |                          |     | 12.0              |                    |       | 27 28                                     |                        |  |
|                        | INSERT, VALVE SEATS           | Replace                          |                          |     |                   | 12.0               |       | 29 30                                     |                        |  |
|                        | SPRING, VALVE                 | Replace                          |                          |     | 12.0              |                    |       | 31 32                                     |                        |  |
|                        | VALVE, EXHAUST                | Adjust                           |                          |     | 2.0               |                    |       | 33  |                        |  |
|                        |                               | Replace                          |                          |     | 12.0              |                    |       |   |                        |  |
|                        | FILTER, ENGINE OIL            | Service                          |                          | 0.1 |                   |                    |       |   |                        |  |
|                        |                               | Replace                          |                          | 0.5 |                   |                    |       |   |                        |  |
|                        |                               | Repair                           |                          | 0.8 |                   |                    |       |   |                        |  |
|                        |                               | GEAR, DRIVE, OIL<br>PUMP         | Replace                  |     |                   |                    | 6.1   |   | 34                     |  |
|                        |                               | PUMP, ENGINE OIL                 | Replace                  |     |                   |                    | 3.0   |   |                        |  |
|                        |                               |                                  | Repair                   |     |                   |                    | 3.6   |   |                        |  |
| 0108                   | OIL COOLER, ENGINE            | Inspect                          |                          |     | 0.2               |                    |       |   |                        |  |
|                        |                               | Replace                          |                          |     | 2.0               |                    |       |   |                        |  |
|                        |                               | Repair                           |                          |     | 2.0               |                    |       |   |                        |  |
| 03                     | MANIFOLD, EXHAUST             | Replace                          |                          |     | 0.5               |                    |       |   |                        |  |
| 0301                   | FUEL SYSTEM                   |                                  |                          |     |                   |                    |       |   |                        |  |
|                        | INJECTOR, FUEL,<br>ENGINE     | Test                             |                          |     |                   | 0.2                |       | 35 36                                     |                        |  |
|                        |                               | Adjust                           |                          |     | 0.3               |                    |       | 44  |                        |  |
|                        |                               | Replace                          |                          |     | 0.6               |                    |       | 37  |                        |  |
|                        |                               | Repair                           |                          |     |                   | 2.0                |       | 38 39 40 41<br>42 43                      |                        |  |
|                        |                               | LEVER, CONTROL,<br>FUEL INJECTOR | Adjust                   |     |                   | 0.3                |       |   |                        |  |
|                        |                               | Replace                          |                          |     | 1.0               |                    |       |   |                        |  |
|                        | TUBES, FUEL<br>INJECTOR       | Replace                          |                          |     | 0.2               |                    |       |   |                        |  |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY           | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|------------------------|---|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|                        |   |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|                        |   |                                | C                        | O   | F                 | H                  | D     |   |                        |
| 0302                   | PUMP, FUEL, ENGINE                      | Test                           |                          |     | 0.5               |                    |       | 46  |                        |
|                        |   | Replace                        |                          | 1.5 |                   |                    |       |   |                        |
| 0304                   | LINES, FUEL,<br>INJECTOR                | Repair                         |                          |     |                   | 2.0                |       | 45  |                        |
|                        |   | Replace                        |                          |     | 1.5               |                    |       |   |                        |
| 0304                   | CLEANER, AIR,<br>ENGINE                 | Service                        | 0.3                      |     |                   |                    |       |   |                        |
|                        |   | Replace                        |                          | 1.0 |                   |                    |       |   |                        |
| 0304                   | ELEMENT                                 | Repair                         |                          |     | 0.2               |                    |       |   | D                      |
|                        |   | Service                        | 0.1                      |     |                   |                    |       |   |                        |
| 0304                   | VALVE, AIR CONTROL                      | Replace                        |                          | 2.0 |                   |                    |       |   | D                      |
|                        |   | Repair                         |                          |     |                   | 1.0                |       |   |                        |
| 0305                   | BLOWER, AIR, ENGINE                     | Replace                        |                          |     | 1.6               |                    |       |   |                        |
|                        |   | Repair                         |                          |     |                   | 4.0                |       |   |                        |
| 0305                   | COUPLING, BLOWER<br>DRIVE               | Replace                        |                          |     | 0.9               |                    |       | 47  |                        |
|                        |   | Replace                        |                          |     | 0.9               |                    |       |   |                        |
| 0306                   | GEAR, DRIVE, AIR<br>BLOWER              | Replace                        |                          | 0.2 |                   |                    |       | 48  |                        |
|                        |   | Replace                        |                          | 1.1 | 1.6               |                    |       |   |                        |
| 0306                   | FUEL RETURN LINE<br>TANK, FUEL, BOLT-ON | Repair                         |                          |     | 0.5               |                    |       | 49  |                        |
|                        |   | Adjust                         |                          |     | 0.2               |                    |       |   |                        |
| 0308                   | GOVERNOR                                | Replace                        |                          |     | 0.5               |                    |       |   |                        |
|                        |   | Repair                         |                          |     |                   | 2.0                |       |   |                        |
| 0309                   | FILTER, FUEL,<br>PRIMARY                | Service                        | 0.1                      |     |                   |                    |       |   | J                      |
|                        |   | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
| 0309                   | FILTER, FUEL,<br>SECONDARY              | Repair                         |                          | 0.2 |                   |                    |       |   |                        |
|                        |   | Service                        | 0.1                      |     |                   |                    |       |   |                        |
|                        |   | Replace                        |                          | 0.2 |                   |                    |       |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER       | (2)<br>COMPONENT/<br>ASSEMBLY          | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|------------------------------|--|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|                              |  |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|                              |  |                                | C                        | O   | F                 | H                  | D     |   |                        |
| 0311                         | HEATER ASSEMBLY,<br>AIR BOX            | Repair                         |                          | 0.2 |                   |                    |       |   |                        |
|                              |  | Replace                        |                          | 0.5 |                   |                    |       |   |                        |
|                              | BRACKET, ASSEMBLY,<br>THROTTLE CONTROL | Repair                         |                          | 0.6 |                   |                    |       | E   |                        |
|                              |  | Replace                        |                          | 0.5 |                   |                    |       |   |                        |
|                              |  | Repair                         |                          | 1.5 |                   |                    |       |   |                        |
|                              |  | Adjust                         |                          | 0.5 |                   |                    |       |   |                        |
|                              |  | Replace                        |                          | 0.5 |                   |                    |       |   |                        |
| Repair                       |  | 0.1                            |                          |     |                   |                    |       |   |                        |
| 04                           | EXHAUST SYSTEM                         |                                |                          |     |                   |                    |       |   |                        |
| 0401                         | JOINT, EXHAUST                         | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
|                              |  | Repair                         |                          | 0.2 |                   |                    |       |   |                        |
| 05                           | COOLING SYSTEM                         |                                |                          |     |                   |                    |       |   |                        |
| 0501                         | RADIATOR                               | Test                           |                          |     | 0.2               |                    |       |   |                        |
|                              |  | Service                        | 0.2                      | 0.5 |                   |                    | 50    | J   |                        |
|                              |  | Replace                        |                          | 3.0 |                   |                    |       |   |                        |
|                              |  | Repair                         |                          |     | 2.0               |                    |       |   |                        |
| 0504                         | THERMOSTAT                             | Test                           |                          | 0.9 |                   |                    |       |   |                        |
|                              |  | Replace                        |                          | 0.8 |                   |                    |       |   |                        |
|                              |  | Replace                        |                          | 1.2 |                   |                    |       |   |                        |
| 0505                         | PUMP, COOLANT                          | Repair                         |                          |     | 1.8               |                    |       |   |                        |
|                              |  | Adjust                         |                          | 0.2 |                   |                    |       |   |                        |
|                              |  | Replace                        |                          | 0.9 |                   |                    |       |   |                        |
| 0505                         | BELT, PUMP DRIVE                       | Adjust                         |                          | 0.1 |                   |                    |       |   |                        |
|                              |  | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
|                              | BELT, FAN DRIVE                        | Service                        | 0.2                      | 0.5 |                   |                    |       | J   |                        |
|                              |  | Replace                        |                          | 3.2 |                   |                    |       |   |                        |
| FAN ASSEMBLY,<br>VENTILATING | Repair                                 |                                |                          |     |                   | 4.7                |       |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY                       | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|------------------------|---|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|                        |   |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|                        |   |                                | C                        | O   | F                 | H                  | D     |   |                        |
| 06                     | GEARBOX ASSEMBLY,<br>FAN                            | Replace                        |                          |     | 2.0               |                    |       |   |                        |
|                        |   | Repair                         |                          |     |                   | 2.0                |       |   |                        |
| 0601                   | ELECTRICAL SYSTEM<br>BELT, DRIVE<br>GENERATOR       | Adjust                         |                          | 0.1 |                   |                    |       |   |                        |
|                        |   | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
| 0602                   | GENERATOR<br>REGULATOR (SOLID<br>STATE)             | Replace                        |                          | 1.2 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          |     | 2.0               |                    |       | F   |                        |
| 0603                   | STARTER   | Adjust                         |                          | 0.1 |                   |                    |       |   |                        |
|                        |   | Replace                        |                          | 0.3 |                   |                    |       |   |                        |
| 0606                   | SOLENOID,<br>SUSPENSION<br>SWITCH, NEUTRAL<br>START | Repair                         |                          |     | 2.0               |                    |       |   |                        |
|                        |   | Adjust                         |                          | 0.2 |                   |                    |       |   |                        |
| 0607                   | PANEL, MASTER<br>SWITCH                             | Adjust                         |                          | 0.1 |                   |                    |       |   |                        |
|                        |   | Replace                        |                          | 0.3 |                   |                    |       |   |                        |
| 0607                   | PANEL ASSEMBLY,<br>WARNING LIGHT                    | Replace                        |                          |     | 0.4               |                    |       |   |                        |
|                        |   | Repair                         |                          | 0.2 |                   |                    |       |   |                        |
| 0607                   | PANEL ASSY,<br>INSTRUMENT                           | Replace                        |                          | 0.3 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          |     | 0.2               |                    |       | D   |                        |
|                        |   | Replace                        |                          |     | 0.5               |                    |       |   |                        |
|                        |   | Repair                         |                          | 0.5 |                   |                    |       | E   |                        |



MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY         | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|------------------------|---------------------------------------|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|                        |                                       |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|                        |                                       |                                | C                        | O   | F                 | H                  | D     |   |                        |
| 0608                   | HARNESS, WIRING,<br>INSTRUMENT PANEL  | Replace                        |                          |     | 2.0               |                    |       | E   |                        |
|                        | DISTRIBUTION BOX                      | Repair                         |                          | 0.2 |                   |                    |       |   |                        |
|                        |                                       | Replace                        |                          |     | 0.8               |                    |       |   |                        |
|                        | POWER SUPPLY<br>INFRARED              | Repair                         |                          |     | 1.2               |                    |       |   |                        |
|                        |                                       | Test                           |                          | 0.1 |                   |                    |       |   |                        |
| 0609                   | DOME LIGHT                            | Replace                        |                          | 0.9 |                   |                    |       |   |                        |
|                        |                                       | Repair                         |                          |     | 2.0               |                    |       | E   |                        |
|                        | BLACKOUT MARKER<br>LIGHT              | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
|                        |                                       | Repair                         |                          | 0.5 |                   |                    |       | C   |                        |
|                        | LIGHT ASSEMBLY,<br>TAIL               | Replace                        |                          | 0.3 |                   |                    |       |   |                        |
|                        |                                       | Repair                         |                          | 0.2 |                   |                    |       | C   |                        |
|                        | HEADLIGHT,<br>BLACKOUT                | Replace                        |                          | 0.3 |                   |                    |       |   |                        |
|                        |                                       | Repair                         |                          | 0.2 |                   |                    |       | C   |                        |
|                        | INFRARED<br>HEADLIGHT                 | Replace                        |                          | 0.3 |                   |                    |       |   |                        |
|                        |                                       | Repair                         |                          | 0.2 |                   |                    |       | C   |                        |
| 0610                   | SERVICE HEADLIGHT                     | Replace                        |                          | 0.3 |                   |                    |       |   |                        |
|                        |                                       | Repair                         |                          | 0.2 |                   |                    |       | C   |                        |
|                        | SWITCH, STOP LIGHT                    | Adjust                         |                          | 0.2 |                   |                    |       |   |                        |
| 0611                   | LEAD, DIFFERENTIAL<br>OIL TEMPERATURE | Replace                        |                          | 0.3 |                   |                    |       |   |                        |
|                        |                                       | Repair                         |                          | 0.2 |                   |                    |       | C   |                        |
|                        | HORN                                  | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
|                        | LEAD, HORN                            | Replace                        |                          | 0.3 |                   |                    |       |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER   | (2)<br>COMPONENT/<br>ASSEMBLY    | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|--|----------------------------------|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|  |                                  |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|  |                                  |                                | C                        | O   | F                 | H                  | D     |   |                        |
| 0612   | BATTERY                          | Repair                         |                          | 0.2 |                   |                    |       |   | C                      |
|  |                                  | Test                           |                          | 0.2 |                   |                    |       |   |                        |
|  |                                  | Service                        | 0.1                      | 0.2 |                   |                    |       |   | U                      |
|  |                                  | Replace                        |                          | 0.5 |                   |                    |       |   |                        |
|  |                                  | Repair                         |                          |     | 3.0               |                    |       |   |                        |
|  | BOX ASSEMBLY,<br>BATTERY (M1064) | Service                        |                          | 0.3 |                   |                    |       |   |                        |
|  |                                  | Replace                        |                          | 0.3 |                   |                    |       |   |                        |
|  |                                  | Repair                         |                          | 0.2 |                   |                    |       |   | C                      |
|  |                                  | Replace                        |                          | 0.4 |                   |                    |       |   |                        |
|  |                                  | Repair                         |                          | 0.9 |                   |                    |       |   | C                      |
| 0613   | LEAD, BATTERY                    | Replace                        |                          | 0.5 |                   |                    |       |   |                        |
|  |                                  | Repair                         |                          | 0.8 |                   |                    |       |   | C                      |
|  |                                  | Replace                        |                          |     | 0.3               |                    |       |   |                        |
|  |                                  | Repair                         |                          | 0.2 |                   |                    |       |   | C                      |
|  |                                  | Replace                        |                          |     | 0.4               |                    |       | 62  |                        |
|  | RECEPTACLE,<br>AUXILIARY         | Repair                         |                          | 0.2 |                   |                    |       |   | C                      |
|  |                                  | Replace                        |                          |     | 0.4               |                    |       |   |                        |
|  |                                  | Repair                         |                          | 0.2 |                   |                    |       |   | C                      |
|  |                                  | Replace                        |                          |     | 0.5               |                    |       |   |                        |
|  |                                  | Repair                         |                          | 0.2 |                   |                    |       |   | C                      |
| WIRE HARNESS,<br>BATTERY TO RADIO                                  | Replace                          |                                |                          | 0.3 |                   |                    |       |   |                        |
|  | Repair                           |                                | 0.2                      |     |                   |                    |       | C   |                        |
|  | Replace                          |                                |                          | 0.4 |                   |                    |       |   |                        |
|  | Repair                           |                                | 0.2                      |     |                   |                    |       | C   |                        |
|  | Replace                          |                                |                          | 0.4 |                   |                    |       |   |                        |
| WIRING HARNESS,<br>MAIN FORWARD                                    | Repair                           |                                | 0.2                      |     |                   |                    |       | C   |                        |
|  | Replace                          |                                |                          | 0.4 |                   |                    |       |   |                        |
|  | Repair                           |                                | 0.2                      |     |                   |                    |       | C   |                        |
|  | Replace                          |                                |                          | 0.4 |                   |                    |       |   |                        |
|  | Repair                           |                                | 0.2                      |     |                   |                    |       | C   |                        |
| WIRING HARNESS,<br>MAIN REAR                                       | Replace                          |                                |                          | 0.5 |                   |                    |       |   |                        |
|  | Repair                           |                                | 0.2                      |     |                   |                    |       | C   |                        |
|  | Replace                          |                                |                          | 0.5 |                   |                    |       |   |                        |
|  | Repair                           |                                | 0.2                      |     |                   |                    |       | C   |                        |
|  | Replace                          |                                | 0.3                      |     |                   |                    |       |   |                        |
| WIRING HARNESS,<br>HEADLIGHT                                       | Repair                           |                                | 0.2                      |     |                   |                    |       | C   |                        |
|  | Replace                          |                                | 0.3                      |     |                   |                    |       |   |                        |
|  | Repair                           |                                | 0.2                      |     |                   |                    |       | C   |                        |
|  | Replace                          |                                | 0.3                      |     |                   |                    |       |   |                        |
|  | Repair                           |                                | 0.2                      |     |                   |                    |       | C   |                        |
| LEAD ASSEMBLY,<br>MASTER SWITCH TO<br>DISTRIBUTION BOX<br>(M577A2) | Replace                          |                                | 0.3                      |     |                   |                    |       |   |                        |
|  | Repair                           |                                | 0.2                      |     |                   |                    |       | C   |                        |
|  | Replace                          |                                | 0.3                      |     |                   |                    |       |   |                        |
|  | Repair                           |                                | 0.2                      |     |                   |                    |       | C   |                        |
|  | Replace                          |                                | 0.3                      |     |                   |                    |       |   |                        |
| LEAD ASSEMBLY,<br>UTILITY OUTLET<br>(M577A2)                       | Repair                           |                                | 0.2                      |     |                   |                    |       | C   |                        |
|  | Replace                          |                                | 0.3                      |     |                   |                    |       |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY                             | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |       |
|------------------------|---|--------------------------------|--------------------------|-----|-------------------|--------------------|---|------------------------|-------|
|                        |   |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT |   |                        | DEPOT |
|                        |   |                                | C                        | O   | F                 | H                  |   |                        | D     |
|                        | LEAD ASSEMBLY,<br>AUXILIARY POWER<br>UNIT (M577A2)        | Repair                         |                          | 0.2 |                   |                    |   | C                      |       |
|                        |   | Replace                        |                          | 0.3 |                   |                    |   |                        |       |
|                        | LEAD ASSEMBLY,<br>MASTER SWITCH TO<br>DOME LIGHT (M577A2) | Repair                         |                          | 0.2 |                   |                    |   | C                      |       |
|                        |   | Replace                        |                          | 0.3 |                   |                    |   |                        |       |
|                        | LEAD ASSEMBLY,<br>WIRE HARNESS TO<br>DOME LIGHT (M1059)   | Repair                         |                          | 0.2 |                   |                    |   | C                      |       |
|                        |   | Replace                        |                          | 0.3 |                   |                    |   |                        |       |
|                        | WIRE HARNESS,<br>RADIO                                    | Repair                         |                          | 0.2 |                   |                    |   | C                      |       |
|                        |   | Replace                        |                          | 0.3 |                   |                    |   |                        |       |
|                        | WIRING HARNESS,<br>RADIAC                                 | Repair                         |                          | 0.2 |                   |                    |   | C                      |       |
|                        |   | Replace                        |                          | 0.2 |                   |                    |   | C                      |       |
|                        | WIRE HARNESS,<br>TRAILER LIGHT                            | Repair                         |                          | 0.2 |                   |                    |   |                        |       |
|                        |   | Replace                        |                          | 0.4 |                   |                    |   | C                      |       |
|                        | RECEPTACLE,<br>GENERATOR SET<br>(M577A2)                  | Repair                         |                          | 0.6 |                   |                    |   |                        |       |
|                        |   | Replace                        |                          |     |                   | 1.2                |   |                        |       |
| 0614                   | RECEPTACLE,<br>TRAILER COUPLING                           | Repair                         |                          | 0.3 |                   |                    |   |                        |       |
|                        |   | Replace                        |                          | 0.4 |                   |                    |   |                        |       |
| 0618                   | HARNESS, WIRING<br>TRANSMISSION                           | Repair                         |                          | 0.6 |                   |                    |   |                        |       |
| 07                     |   | Replace                        |                          |     |                   | 1.2                |   |                        |       |
| 0705                   | LINKAGE,<br>TRANSMISSION<br>CONTROL                       | Adjust                         |                          | 0.3 |                   |                    |   |                        |       |
|                        |   | Replace                        |                          | 0.2 |                   |                    |   |                        |       |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY        | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |       |
|------------------------|--------------------------------------|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|-------|
|                        |                                      |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |       |
|                        |                                      |                                | C                        | O   | F                 | H                  | D     |   |                        |       |
| 0710                   | SELECTOR,<br>TRANSMISSION<br>RANGE   | Repair                         |                          | 0.3 |                   |                    |       |   |                        |       |
|                        |                                      | Adjust                         |                          | 0.3 |                   |                    |       |   |                        |       |
|                        |                                      | Replace                        |                          | 0.5 |                   |                    |       |   |                        |       |
|                        | TRANSMISSION<br>ASSEMBLY             | Repair                         |                          | 0.7 |                   |                    |       |   |                        |       |
|                        |                                      | Service                        | 0.2                      |     |                   |                    |       |   |                        |       |
|                        |                                      | Replace                        |                          |     | 10.0              |                    |       |   |                        |       |
| 0713                   | OIL SEAL, REAR<br>CLUTCH PACK        | Repair                         |                          |     | 1.0               |                    |       | 52 53 54 55<br>56 57 58 59<br>60 61 62    | G                      |       |
|                        |                                      | Replace                        |                          |     |                   |                    | 14.6  |   |                        |       |
| 0714                   | CONTROL VALVE                        | Replace                        |                          |     |                   |                    |       | 25.0                                      |                        |       |
| 0721                   | PUMP                                 | Repair                         |                          |     |                   |                    |       |   |                        |       |
|                        |                                      | Replace                        |                          |     |                   |                    |       |   | 59 60                  |       |
| 08                     | TRANSFER & FINAL<br>DRIVE ASSEMBLIES | Repair                         |                          |     |                   |                    |       |   | 63 64 65 66            | K     |
|                        |                                      | Replace                        |                          |     |                   |                    |       |   | 1.5                    |       |
| 0801                   | MOUNT, TRANSFER<br>GEARCASE          | Repair                         |                          |     |                   |                    |       |   | 5.5                    |       |
|                        |                                      | Replace                        |                          |     |                   |                    |       |   | 1.5                    |       |
| 0801                   | TRANSFER GEARCASE                    | Repair                         |                          |     |                   |                    |       |   | 2.2                    |       |
|                        |                                      | Replace                        |                          |     |                   |                    |       |   | 1.2                    | 67 68 |
| 0801                   | FINAL DRIVE<br>ASSEMBLY              | Replace                        |                          | 1.6 |                   |                    |       |   |                        | 69 70 |
|                        |                                      | Service                        | 0.1                      |     |                   |                    |       |   |                        |       |
|                        |                                      | Replace                        |                          |     | 12.4              |                    |       |   |                        |       |
|                        |                                      | Repair                         |                          |     |                   |                    |       |   |                        | 6.2   |
| 0801                   | FINAL DRIVE<br>ASSEMBLY              | Service                        | 0.1                      |     |                   |                    |       |   |                        |       |
|                        |                                      | Replace                        |                          | 1.6 |                   |                    |       |   |                        | 72    |
| 0801                   | FINAL DRIVE<br>ASSEMBLY              | Repair                         |                          |     |                   |                    |       |   |                        | 73 75 |
|                        |                                      | Replace                        |                          |     |                   |                    |       |   | 5.2                    |       |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY                 | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |                     | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|------------------------|---|--------------------------------|--------------------------|-----|-------------------|--------------------|---------------------|---|------------------------|
|                        |   |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT               |   |                        |
|                        |   |                                | C                        | O   | F                 | H                  | D                   |   |                        |
| 0802                   | ENGINE QUICK<br>DISCONNECT<br>LINKAGE         | Adjust                         |                          | 0.2 |                   |                    |                     |   |                        |
|                        |   | Replace                        |                          | 1.6 |                   |                    |                     |   |                        |
| 09                     | PROPELLER SHAFTS,<br>U-JOINTS & CLAMPS        |                                |                          |     |                   |                    |                     |   |                        |
| 0900                   | SPIDERS                                       | Service                        | 0.2                      |     |                   |                    | 76                  |   |                        |
|                        |   | Replace                        |                          | .06 |                   |                    |                     |   |                        |
| 11                     | REAR AXLE                                     |                                |                          |     |                   |                    |                     |   |                        |
| 1124                   | BAND, STEERING,<br>BRAKE DIFFERENTIAL         | Adjust                         |                          | 0.3 |                   |                    |                     |   |                        |
|                        |   | Replace                        |                          | 1.1 |                   |                    |                     |   |                        |
|                        |   | Repair                         |                          |     | 1.6               |                    |                     |   |                        |
|                        | OIL FILTER,<br>DIFFERENTIAL                   | Service                        |                          | 0.2 |                   |                    |                     |   |                        |
|                        |   | Replace                        |                          | 0.9 |                   |                    |                     |   |                        |
|                        |   | Repair                         |                          | 0.3 |                   |                    |                     | C   |                        |
|                        | DIFFERENTIAL<br>CONTROL                       | Service                        | 0.1                      |     |                   |                    |                     |   |                        |
|                        |   | Replace                        |                          | 3.8 |                   |                    |                     |   |                        |
|                        |   | Repair                         |                          |     |                   | 16.0               | 1 77 78 79 80<br>81 | H   |                        |
|                        | MOUNT,<br>DIFFERENTIAL                        | Replace                        |                          | 0.5 |                   |                    | 69                  |   |                        |
| 13                     | WHEELS & TRACKS                               |                                |                          |     |                   |                    |                     |   |                        |
| 1301                   | BAR, TORSION                                  | Replace                        | 0.9                      |     |                   |                    | 82 83 84            |   |                        |
|                        | BEARING, TRUNNION,<br>SUPPORT ARM<br>ASSEMBLY | Replace                        |                          | 0.7 |                   |                    | 81                  |   |                        |
|                        | SEAL, TRUNNION,<br>SUPPORT ARM<br>ASSEMBLY    | Replace                        |                          | 0.6 |                   |                    | 81                  |   |                        |
|                        | BEARING, SPINDLE,<br>SUPPORT ARM<br>ASSEMBLY  | Replace                        |                          | 0.6 |                   |                    | 86 87               |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY             | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|------------------------|---|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|                        |   |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|                        |   |                                | C                        | O   | F                 | H                  | D     |   |                        |
| 1303                   | SEAL, SPINDLE,<br>SUPPORT ARM<br>ASSEMBLY | Replace                        |                          | 0.6 |                   |                    |       | 86  |                        |
|                        | SUPPORT ARM<br>ASSEMBLY, ROAD<br>WHEEL    | Service                        |                          | 0.2 |                   |                    |       |   |                        |
|                        | ADJUSTER<br>ASSEMBLY, TRACK<br>TENSION    | Repair                         |                          | 2.0 |                   |                    |       |   |                        |
|                        |   | Adjust                         |                          | 0.2 |                   |                    |       |   |                        |
|                        | ARM ASSEMBLY,<br>IDLER                    | Replace                        |                          |     | 0.6               |                    |       |   |                        |
|                        |   | Repair                         |                          |     |                   | 1.1                |       |   | E                      |
|                        |   | Service                        |                          |     | 0.2               |                    |       |   |                        |
| 1305                   | BEARING, IDLER HUB                        | Replace                        |                          | 0.7 |                   |                    |       |   |                        |
|                        | Repair                                    |                                |                          |     | 1.0               |                    |       |   |                        |
|                        | SEAL, SPINDLE IDLER<br>ARM ASSEMBLY       | Replace                        |                          | 0.8 |                   |                    |       | 99  |                        |
|                        | Replace                                   |                                |                          | 0.8 |                   |                    |       | 86  |                        |
|                        | TRACK ASSEMBLY<br>SHOE, TRACK             | Adjust                         |                          | 0.2 |                   |                    |       | 84 85 89 90                               | I                      |
|                        | Inspect                                   |                                |                          | 0.2 |                   |                    |       | 88  | C                      |
|                        | Replace                                   |                                |                          | 0.3 |                   |                    |       |   |                        |
|                        | Repair                                    |                                |                          | 0.2 |                   |                    |       |   |                        |
|                        | TRACK ASSEMBLY,<br>T130                   | Replace                        |                          |     | 1.4               |                    |       |   | S                      |
|                        | TRACK ASSEMBLY,<br>T150                   | Replace                        |                          |     | 1.5               |                    |       |   | S                      |
| 1311                   | ROAD WHEEL                                | Replace                        |                          | 0.3 |                   |                    |       | 91  |                        |
| 14                     | STEERING                                  |                                |                          |     |                   |                    |       |   |                        |
| 1403                   | ARM ASSEMBLY,<br>STEERING                 | Adjust                         |                          | 0.3 |                   |                    |       |   |                        |
|                        |   | Replace                        |                          | 0.5 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          | 0.3 |                   |                    |       |   | C                      |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY                               | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|------------------------|---|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|                        |   |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|                        |   |                                | C                        | O   | F                 | H                  | D     |   |                        |
| 15                     | BRAKE ASSEMBLY,<br>PIVOT, STEER                             | Replace                        |                          | 0.4 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          |     | 0.6               |                    |       | 92  | E                      |
|                        | CYLINDER, MASTER,<br>PIVOT STEER                            | Service                        |                          | 0.1 |                   |                    |       |   |                        |
|                        |   | Adjust                         |                          | 0.6 |                   |                    |       |   |                        |
|                        | CONTROLS AND<br>LINKAGE,<br>DIFFERENTIAL<br>STEERING BRAKES | Replace                        |                          | 0.8 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          |     | 1.0               |                    |       | 93  |                        |
|                        |   | Inspect                        | 0.2                      |     |                   |                    |       |   |                        |
|                        |   | Replace                        |                          | 4.0 |                   |                    |       |   |                        |
|                        | TOWING<br>ATTACHMENTS<br>PINTLE, TOWING                     | Service                        | 0.1                      |     |                   |                    |       |   |                        |
|                        |   | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
| Repair                 |   |                                | 0.4                      |     |                   |                    |       | C   |                        |
| 16                     | SPRINGS AND SHOCK<br>ABSORBERS                              |                                |                          |     |                   |                    |       |   |                        |
| 1604                   | SHOCK ABSORBER<br>ASSEMBLY                                  | Replace                        |                          | 0.4 |                   |                    |       | 94  |                        |
|                        |   | Repair                         |                          |     | 0.5               |                    |       |   |                        |
| 18                     | HULL  |                                |                          |     |                   |                    |       |   |                        |
| 1800                   | TRIM VANE ASSY  | Adjust                         |                          | 0.2 |                   |                    |       |   |                        |
| 1801                   | GRILL ASSEMBLY,<br>POWER PLANT                              | Replace                        |                          |     |                   |                    | 2.2   |   |                        |
|                        |   | Repair                         |                          |     |                   | 1.8                |       |   |                        |
|                        | DOOR ASSEMBLY,<br>POWER PLANT                               | Replace                        |                          | 0.5 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          | 1.0 |                   |                    |       |   | C                      |
|                        | TRIM VANE<br>ASSEMBLY                                       | Replace                        |                          | 0.3 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          | 0.5 |                   |                    |       |   | C                      |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER            | (2)<br>COMPONENT/<br>ASSEMBLY             | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|-----------------------------------|---|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|                                   |   |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|                                   |   |                                | C                        | O   | F                 | H                  | D     |   |                        |
| 1803                              | RELEASE ASSEMBLY,<br>TRIM VANE            | Adjust                         |                          | 0.1 |                   |                    |       |   | C                      |
|                                   |   | Replace                        |                          | 0.3 |                   |                    |       |   |                        |
|                                   |   | Repair                         |                          | 0.5 |                   |                    |       |   |                        |
|                                   | COVER, ENGINE<br>ACCESS                   | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
|                                   |   | Repair                         |                          | 1.0 |                   |                    |       |   |                        |
|                                   | INSERT, THREADED<br>COVER, CARGO<br>HATCH | Replace                        |                          |     |                   | 0.3                |       | 95 96                                     |                        |
|                                   |   | Replace                        |                          | 0.5 |                   |                    |       |   |                        |
|                                   |   | Repair                         |                          | 0.3 |                   |                    |       |   |                        |
|                                   | CUPOLA ASSEMBLY,<br>COMMANDER'S           | Replace                        |                          |     | 2.1               |                    |       |   |                        |
|                                   |   | Repair                         |                          |     | 3.1               |                    |       |   | C                      |
|                                   | RAMP ASSEMBLY                             | Replace                        |                          |     |                   |                    | 3.5   |   |                        |
|                                   |   | Repair                         |                          |     | 0.6               |                    |       |   |                        |
|                                   | DOOR ASSEMBLY,<br>RAMP                    | Replace                        |                          |     | 0.7               |                    |       |   |                        |
|                                   |   | Repair                         |                          |     | 0.2               |                    |       |   | E                      |
|                                   | COVER ASSEMBLY,<br>COMMANDER'S<br>HATCH   | Adjust                         |                          | 0.2 |                   |                    |       |   |                        |
| Replace                           |   |                                | 0.5                      |     |                   |                    |       |   |                        |
| Repair                            |   |                                | 0.2                      |     |                   |                    |       | C   |                        |
| RELEASE ASSEMBLY,<br>PERISCOPE    | Replace                                   |                                | 0.3                      |     |                   |                    |       |   |                        |
|                                   | Repair                                    |                                | 0.6                      |     |                   |                    |       |   |                        |
|                                   | Adjust                                    |                                | 0.2                      |     |                   |                    |       |   |                        |
| COVER ASSEMBLY,<br>DRIVER'S HATCH | Replace                                   |                                | 0.5                      |     |                   |                    |       |   |                        |
|                                   | Repair                                    |                                | 0.2                      |     |                   |                    |       | C   |                        |
|                                   | Replace                                   |                                | 0.5                      |     |                   |                    |       |   |                        |
| 1806                              | SEAT, COMMANDER'S                         | Replace                        |                          | 0.5 |                   |                    |       |   |                        |
|                                   |   | Repair                         |                          | 1.5 |                   |                    |       | C   |                        |



MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY     | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |       |
|------------------------|-----------------------------------|--------------------------------|--------------------------|-----|-------------------|--------------------|---|------------------------|-------|
|                        |                                   |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT |   |                        | DEPOT |
|                        |                                   |                                | C                        | O   | F                 | H                  |   |                        | D     |
| 1807                   | PLATFORM,<br>COMMANDER'S          | Replace                        |                          | 0.5 |                   |                    |   |                        |       |
|                        | SEAT, DRIVER'S                    | Repair                         |                          | 1.5 |                   |                    |   | C                      |       |
|                        |                                   | Replace                        |                          | 0.5 |                   |                    |   |                        |       |
|                        | ASSEMBLY, STOWAGE<br>BOX (M1068)  | Repair                         |                          | 1.5 |                   |                    |   | C                      |       |
|                        |                                   | Replace                        |                          | 0.2 |                   |                    |   |                        |       |
|                        | ASSY, WORKSURFACE<br>(M1068)      | Repair                         |                          | 0.5 |                   |                    |   |                        |       |
|                        |                                   | Replace                        |                          | 0.3 |                   |                    |   |                        |       |
|                        | SEAT, COMMANDER'S<br>(M1068)      | Repair                         |                          | 0.2 |                   |                    |   |                        |       |
|                        |                                   | Replace                        |                          | 0.5 |                   |                    |   |                        |       |
|                        | SEAT, CREW STATION<br>(M1068)     | Repair                         |                          | 1.5 |                   |                    |   |                        |       |
|                        |                                   | Replace                        |                          | 0.5 |                   |                    |   |                        |       |
|                        | CONTAINER<br>ASSEMBLY, AMMO       | Repair                         |                          | 1.5 |                   |                    |   |                        |       |
| Replace                |                                   |                                | 0.5                      |     |                   |                    |   |                        |       |
| 1808                   | RACK, AMMO                        | Repair                         |                          | 0.1 |                   |                    |   | C                      |       |
|                        |                                   | Replace                        |                          | 0.9 |                   |                    |   |                        |       |
| 22                     | MISCELLANEOUS<br>HULL ACCESSORIES | Repair                         |                          | 0.4 |                   |                    |   |                        |       |
|                        |                                   | Replace                        |                          | 0.4 |                   |                    |   |                        |       |
| 2201                   | COVERED EXTENSION<br>(M577A2)     | Repair                         |                          | 0.3 |                   |                    |   |                        |       |
|                        |                                   | Replace                        |                          | 1.0 |                   |                    |   |                        |       |
| 2205                   | CURTAIN, BLACKOUT<br>(M577A2)     | Repair                         |                          |     | 3.0               |                    |   | E                      |       |
|                        |                                   | Replace                        |                          | 0.2 |                   |                    |   |                        |       |
| 2205                   | PUMP, BILGE                       | Repair                         |                          |     | 0.2               |                    |   |                        |       |
|                        |                                   | Service                        | 0.3                      |     |                   |                    |   |                        |       |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY  | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|------------------------|--------------------------------|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|                        |                                |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|                        |                                |                                | C                        | O   | F                 | H                  | D     |   |                        |
| 24                     | HYDRAULIC LIFT<br>COMPONENTS   | Replace                        |                          | 0.8 |                   |                    |       |   |                        |
|                        |                                | Repair                         |                          |     | 1.2               |                    |       |   |                        |
| 2404                   | TANK, HYDR FLUID               | Service                        |                          | 0.7 |                   |                    | 37    |   |                        |
|                        |                                | Replace                        |                          | 0.8 |                   |                    | 37    |   |                        |
|                        |                                | Repair                         |                          | 0.9 |                   |                    | 37    |   |                        |
|                        | TANK, RAMP SYSTEM              | Replace                        |                          | 0.7 |                   |                    |       |   |                        |
|                        |                                | Repair                         |                          |     |                   | 1.0                |       | D   |                        |
| 2407                   | CYLINDER, RAMP                 | Replace                        |                          | 1.3 |                   |                    |       |   |                        |
|                        |                                | Repair                         |                          |     | 0.8               |                    |       |   |                        |
| 29                     | AUXILIARY<br>GENERATOR         |                                |                          |     |                   |                    |       |   |                        |
| 2901                   | GENERATOR SET<br>(M577A2)      | Service                        | 0.1                      |     |                   |                    |       |   |                        |
|                        |                                | Adjust                         |                          | 0.2 |                   |                    |       |   |                        |
|                        |                                | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
|                        |                                | Repair                         |                          |     |                   | 3.2                |       |   |                        |
|                        |                                | Overhaul                       |                          |     |                   |                    | 60    |   |                        |
|                        | AUXILIARY PWR UNIT<br>(M1068)  | Service                        | 0.1                      | 0.3 |                   |                    |       |   |                        |
|                        |                                | Repair                         | 0.2                      | 0.5 | 1.8               |                    |       |   |                        |
| 33                     | SPECIAL PURPOSE<br>KITS        |                                |                          |     |                   |                    |       |   |                        |
| 3301                   | SHIPPING<br>CONTAINERS, ENGINE | Replace                        |                          |     | 0.2               |                    |       |   |                        |
|                        |                                | Repair                         |                          |     | 1.5               |                    |       |   |                        |
| 3303                   | BOX, CONTROL,<br>HEATER        | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
|                        |                                | Repair                         |                          | 0.2 |                   |                    |       |   |                        |
|                        | FILTER, FUEL                   | Service                        |                          | 0.2 |                   |                    |       |   |                        |
|                        |                                | Replace                        |                          | 0.3 |                   |                    |       |   |                        |
|                        | HEATER, COOLANT                | Replace                        |                          | 0.4 |                   |                    |       |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER        | (2)<br>COMPONENT/<br>ASSEMBLY   | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |      |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|-------------------------------|---|--------------------------------|--------------------------|------|-------------------|--------------------|-------|---|------------------------|
|                               |   |                                | UNIT                     |      | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|                               |   |                                | C                        | O    | F                 | H                  | D     |   |                        |
| 3307                          | HEATER, PERSONNEL<br>(ALL CARRIERS)                                     | Repair                         |                          |      | 1.2               |                    |       | 97 98                                     | Q                      |
|                               |   | Replace                        |                          | 0.3  |                   |                    |       |   |                        |
|                               | PUMP, FUEL, HEATERS   | Service                        |                          | 0.1  |                   |                    |       |   |                        |
|                               |   | Replace                        |                          | 0.2  |                   |                    |       |   |                        |
|                               | HEATER CONTROL<br>BOX   | Replace                        |                          | 0.5  |                   |                    |       | 37  |                        |
|                               |   | Repair                         |                          | 1.9  |                   |                    |       | 37 74                                     |                        |
|                               | HEATER, PERSONNEL<br>DRIVER'S<br>WINDSHIELD                             | Replace                        |                          | 0.3  |                   |                    |       | 97 98                                     |                        |
|                               |   | Install                        |                          | 0.1  |                   |                    |       |   |                        |
|                               | ELECTRONIC<br>EQUIPMENT<br>WINTERIZATION<br>HEATER KIT (M577A2<br>ONLY) | Repair                         |                          | 0.2  |                   |                    |       |   |                        |
|                               |   | Install                        |                          |      | 6.0               |                    |       |   |                        |
|                               | ENGINE COOLANT<br>HEATER KIT (ALL<br>CARRIERS)                          | Repair                         |                          |      | 8.2               |                    |       |   |                        |
|                               |   | Install                        |                          |      | 20.0              |                    |       |   |                        |
|                               | FUEL SUPPLY<br>ADAPTER KIT (M577A2<br>ONLY)                             | Repair                         |                          |      | 5.3               |                    |       |   |                        |
|                               |   | Install                        |                          |      | 0.6               |                    |       |   |                        |
|                               | PERSONNEL HEATER<br>KIT (ALL CARRIERS<br>EXCEPT M577A2)                 | Repair                         |                          |      | 0.5               |                    |       |   |                        |
| Install                       |   |                                |                          | 10.0 |                   |                    |       |   |                        |
| ANCHOR KIT (M113A2,<br>M1059) | Repair  |                                |                          | 10.6 |                   |                    |       |   |                        |
|                               | Install   |                                |                          | 1.0  |                   |                    |       |   |                        |
| APU COVER (M577A2)            | Repair  |                                | 0.2                      |      |                   |                    |       |   |                        |
|                               | Replace   |                                | 0.1                      |      |                   |                    |       |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY              | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |                                     | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|------------------------|--|--------------------------------|--------------------------|-----|-------------------|--------------------|-------------------------------------|---|------------------------|
|                        |  |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT                               |   |                        |
|                        |  |                                | C                        | O   | F                 | H                  | D                                   |   |                        |
|                        | ADAPTER ASSEMBLY                           | Repair                         |                          |     | 0.5               |                    |                                     |   |                        |
|                        |  | Replace                        |                          | 0.1 |                   |                    | 37                                  |   |                        |
|                        | ARTILLERY<br>COMMUNICATION KIT<br>(M577A2) | Repair                         |                          | 0.1 |                   |                    | 37                                  |   |                        |
|                        |  | Install                        |                          |     | 6.0               |                    |                                     |   |                        |
|                        | BRACKET, DOOR                              | Repair                         |                          |     | 1.2               |                    |                                     |   |                        |
|                        |  | Replace                        |                          | 0.1 |                   |                    | 37                                  |   |                        |
|                        | CAPSTAN KIT<br>(M113A2, M1059)             | Repair                         |                          | 0.1 |                   |                    | 37                                  |   |                        |
|                        |  | Install                        |                          |     | 3.0               |                    |                                     |   |                        |
|                        | CHAIN ASSY LITTER C                        | Repair                         |                          | 0.3 |                   |                    |                                     |   |                        |
|                        |  | Replace                        |                          | 0.1 |                   |                    | 37                                  |   |                        |
|                        | CHEMICAL ALARM<br>KIT                      | Repair                         |                          | .5  |                   |                    | 37                                  |   |                        |
|                        |  | Install                        |                          |     |                   |                    |                                     |   |                        |
|                        | COOLANT HEATER                             | Replace                        |                          |     |                   |                    |                                     |   |                        |
|                        |  | Repair                         |                          |     |                   |                    |                                     |   |                        |
|                        | COOLANT HEATER                             | Test                           |                          |     | 0.8               |                    | 29 41                               |   |                        |
|                        |  | Adjust                         |                          | 0.5 |                   |                    | 32 34 37 44<br>53 67                |   |                        |
|                        |  | Install                        |                          |     | 3.3               |                    | 32 34 37 44<br>53 67                |   |                        |
|                        |  | Replace                        |                          | 4.0 |                   |                    | 32 34 37 44<br>53 67                |   |                        |
|                        | GUN SHIELD KIT<br>(M113A2)                 | Repair                         |                          | 0.7 | 0.3               |                    | 27 29 31 32<br>34 37 41 44<br>53 67 |   |                        |
|                        |  | Install                        |                          |     | 10.0              |                    |                                     |   |                        |
|                        |  | Repair                         |                          |     | 0.8               |                    |                                     |   |                        |
|                        | HTR KIT, ENG COOL                          | Replace                        |                          |     |                   |                    |                                     |   |                        |
|                        |  | Service                        |                          | 0.2 |                   |                    | 32 37                               |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY       | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|------------------------|-------------------------------------|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|                        |                                     |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|                        |                                     |                                | C                        | O   | F                 | H                  | D     |   |                        |
|                        |                                     | Remove/<br>Install             |                          |     | 10.0              |                    |       | 41  |                        |
|                        |                                     | Repair                         |                          | .3  |                   |                    |       | 31 32 37 44<br>74                         |                        |
|                        | DUCT ASSY                           | Replace                        |                          | 0.2 |                   |                    |       | 37  |                        |
|                        |                                     | Repair                         |                          | 0.2 |                   |                    |       | 37  |                        |
|                        | LITTER KIT (M113A2)                 | Install                        |                          | 0.3 |                   |                    |       |   |                        |
|                        |                                     | Repair                         |                          | 0.5 |                   |                    |       |   |                        |
|                        |                                     | Replace                        |                          |     |                   |                    |       |   |                        |
|                        | LITTER KIT                          | Inspect                        | 0.1                      |     |                   |                    |       |   |                        |
|                        |                                     | Remove/<br>Install             |                          | 0.3 |                   |                    |       | 37  |                        |
|                        | MACHINE GUN<br>SHIELD KIT           | Remove/<br>Install             |                          |     | 10                |                    |       | 29 37                                     |                        |
|                        |                                     | Repair                         |                          | 0.6 |                   |                    |       | 37  |                        |
|                        | MOUNTING ARM ASSY                   | Replace                        |                          | 0.1 |                   |                    |       | 37  |                        |
|                        |                                     | Repair                         |                          | 0.4 | 0.9               |                    |       | 29 37                                     |                        |
|                        | NON-SKID RAMP KIT<br>(M1064)        | Install                        |                          |     | 4.0               |                    |       |   |                        |
|                        |                                     | Repair                         |                          |     | 1.3               |                    |       |   |                        |
|                        | PLATFORM ASSY GUN<br>M              | Replace                        |                          | 0.1 |                   |                    |       | 37  |                        |
|                        |                                     | Repair                         |                          | 0.5 |                   |                    |       | 37  |                        |
|                        | RESTRICTOR ASSY                     | Replace                        |                          | 0.2 |                   |                    |       | 37  |                        |
|                        |                                     | Repair                         |                          | 0.2 |                   |                    |       | 37  |                        |
|                        | SMOKE GENERATOR<br>ASSEMBLY (M1059) | Service                        |                          |     |                   |                    |       |   | M                      |
|                        |                                     | Replace                        |                          | .5  |                   |                    |       |   |                        |
|                        |                                     | Repair                         |                          |     |                   |                    |       |   | M                      |
|                        | SOCKET ASSY, PINTLE                 | Replace                        |                          | 0.1 |                   |                    |       | 37  |                        |
|                        |                                     | Repair                         |                          | 0.1 | 0.1               |                    |       | 29 37                                     |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY                                    | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|------------------------|--|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|                        |  |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|                        |  |                                | C                        | O   | F                 | H                  | D     |   |                        |
|                        | SUPPORT ASSEMBLY,<br>SMOKE GENERATOR<br>(M1059)                  | Replace                        |                          | 1.0 |                   |                    |       |   |                        |
|                        |  | Repair                         |                          | 0.5 |                   |                    |       |   |                        |
|                        | SUPPORT POST LITTER  | Replace                        |                          | 0.5 |                   |                    | 37    |   |                        |
|                        |  | Repair                         |                          | 0.5 |                   |                    | 37    |   |                        |
|                        | ADAPTER FUEL TANK<br>(M1059)                                     | Service                        | 0.1                      |     |                   |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
|                        |  | Repair                         |                          | 0.5 |                   |                    |       |   |                        |
|                        | PANEL ASSEMBLY<br>OPERATORS (M1059)                              | Replace                        |                          | 0.5 |                   |                    |       | M   |                        |
|                        |  | Repair                         |                          |     |                   |                    |       | N   |                        |
|                        | FOG OIL TANK<br>MODULE (M1059)                                   | Replace                        |                          | 1.0 |                   |                    |       | M   |                        |
|                        |  | Repair                         |                          | 0.5 |                   |                    |       | N   |                        |
|                        | CABLE ASSEMBLY<br>OPERATOR'S PANEL<br>MAIN POWER (M1059)         | Replace                        |                          | 0.2 |                   |                    |       | C   |                        |
|                        |  | Repair                         |                          | 0.5 |                   |                    |       |   |                        |
|                        | CABLE ASSEMBLY,<br>PANEL TO<br>COMPRESSOR (M1059)                | Replace                        |                          | 0.2 |                   |                    |       | C   |                        |
|                        |  | Repair                         |                          | 0.5 |                   |                    |       |   |                        |
|                        | CABLE ASSEMBLY,<br>PANEL TO PUMP<br>(M1059)                      | Replace                        |                          | 0.3 |                   |                    |       | D   |                        |
|                        |  | Repair                         |                          |     | 0.5               |                    |       |   |                        |
|                        | CABLE ASSEMBLY,<br>PANEL TO ACCESS<br>PLATE (M1059)              | Replace                        |                          | 0.8 |                   |                    |       | D   |                        |
|                        |  | Repair                         |                          |     | 0.5               |                    |       |   |                        |
|                        | CABLE ASSEMBLY,<br>SMOKE GENERATOR<br>TO ACCESS PLATE<br>(M1059) | Replace                        |                          | 0.5 |                   |                    |       | D   |                        |
|                        |  | Repair                         |                          |     | 0.5               |                    |       |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER                           | (2)<br>COMPONENT/<br>ASSEMBLY                   | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|--|---|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|  |   |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|  |   |                                | C                        | O   | F                 | H                  | D     |   |                        |
| 42<br><br>4202                                   | PUMP ASSEMBLY,<br>FOG OIL (M1059)               | Replace                        |                          | 0.8 |                   |                    |       |   | M                      |
|  |   | Repair                         |                          |     |                   |                    |       |   | N                      |
|  | AIR COMPRESSOR<br>ASSEMBLY (M1059)              | Replace                        |                          | 0.5 |                   |                    |       |   | M                      |
|  | ELECTRICAL<br>EQUIPMENT                         |                                |                          |     |                   |                    |       |   |                        |
|  | CABLE ASSY, AC<br>POWER EXT (W7, W8)<br>(M1068) | Replace                        |                          | 0.4 |                   |                    |       |   |                        |
|  |   | Repair                         |                          |     | 0.3               |                    |       |   |                        |
|  | CABLE ASSY (W4)<br>(M1068)                      | Replace                        |                          | 0.3 |                   |                    |       |   |                        |
|  |   | Repair                         |                          | 0.3 |                   |                    |       |   |                        |
|  | POWER DISTRIBUTION<br>ASSY (A3) (M1068)         | Replace                        |                          | 0.1 |                   |                    |       |   |                        |
|  |   | Repair                         |                          | 0.3 |                   |                    |       |   |                        |
|  | INVERTER (IN1, IN2)<br>(M1068)                  | Replace                        |                          |     | 0.6               |                    |       |   |                        |
|  | CABLE ASSY,<br>INVERTED (W5)<br>(M1068)         | Replace                        |                          | 0.4 |                   |                    |       |   |                        |
|  |   | Repair                         |                          | 0.3 |                   |                    |       |   |                        |
|  | CABLE ASSY (W6)<br>(M1068)                      | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
|  |   | Repair                         |                          | 0.2 |                   |                    |       |   |                        |
|  | HOUSING ASSY,<br>INVERTER (A2)<br>(M1068)       | Replace                        |                          |     | 0.6               |                    |       |   |                        |
|  | Repair  |                                | 0.4                      | 0.8 |                   |                    |       |   |                        |
| CABLE ASSY, DC<br>POWER EXT (W9, W10)<br>(M1068) | Replace   |                                | 0.4                      |     |                   |                    |       |   |                        |
|  | Repair  |                                |                          | 0.3 |                   |                    |       |   |                        |
| CABLE ASSY, AC<br>LIGHT CORD (W11)<br>(M1068)    | Replace   |                                | 0.4                      |     |                   |                    |       |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY                      | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|------------------------|--|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|                        |  |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|                        |  |                                | C                        | O   | F                 | H                  | D     |   |                        |
|                        | CABLE ASSY (W3)<br>(M1068)                         | Repair                         |                          |     | 0.3               |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.4 |                   |                    |       |   |                        |
|                        | CABLE ASSY, SINGLE<br>POINT LAN (W40)<br>(M1068)   | Repair                         |                          |     | 0.3               |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.1 |                   |                    |       |   |                        |
|                        | CABLE ASSY, DC<br>INPUT (W42) (M1068)              | Repair                         |                          | 0.2 |                   |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.4 |                   |                    |       |   |                        |
|                        | CABLE ASSY, AC<br>INPUT (W43) (M1068)              | Repair                         |                          |     | 0.3               |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.4 |                   |                    |       |   |                        |
|                        | CABLE ASSY (W32)<br>(M1068)                        | Repair                         |                          |     | 0.3               |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.6 |                   |                    |       |   |                        |
|                        | BOX ASSY, EXT,<br>COMM (ALL) (M1068)               | Repair                         |                          |     | 0.5               |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.3 |                   |                    |       |   |                        |
|                        | CABLE ASSY, LAN<br>(W101, W102) (M1068)            | Repair                         |                          |     | 1.1               |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
|                        | CABLE, RADIO<br>FREQUENCY (M1068)                  | Repair                         |                          | 0.1 |                   |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
|                        | BOX ASSY, POWER<br>ENTRY (A4) (M1068)              | Repair                         |                          | 0.1 |                   |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.3 |                   |                    |       |   |                        |
|                        | CABLE ASSY, POWER<br>ENTRY INPUT (W13)<br>(M1068)  | Repair                         |                          |     | 0.6               |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.3 |                   |                    |       | P   |                        |
|                        | CABLE ASSY, POWER<br>ENTRY OUTPUT (W14)<br>(M1068) | Repair                         |                          | 0.2 | 0.4               |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.3 |                   |                    |       | P   |                        |



MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY                    | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|------------------------|--|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|                        |  |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|                        |  |                                | C                        | O   | F                 | H                  | D     |   |                        |
|                        | ENCLOSURE ASSY,<br>POWER CONTROL (A1)<br>(M1068) | Repair                         |                          | 0.2 | 0.4               |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
|                        | FACEPLATE ASSY,<br>POWER CONTROL<br>(M1068)      | Repair                         |                          | 0.6 | 1.1               |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.4 |                   |                    |       |   |                        |
|                        | CABLE ASSY, EXT<br>POWER INPUT (W1)<br>(M1068)   | Repair                         |                          | 0.5 |                   |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.1 |                   |                    |       |   |                        |
|                        | CABLE ASSY, POWER,<br>EXT AC (W2) (M1068)        | Repair                         |                          | 0.2 | 0.4               |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.1 |                   |                    |       |   |                        |
|                        | PANEL ASSY, TENT<br>INT BOX (A5) (M1068)         | Repair                         |                          | 0.1 |                   |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
|                        | MOUNT ASSY,<br>FACSIMILE MACH<br>(M1068)         | Repair                         |                          |     | 0.5               |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.1 |                   |                    |       |   |                        |
|                        | BOX ASSY, POWER<br>SUPPLY STORAGE<br>(M1068)     | Repair                         |                          | 0.2 |                   |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.1 |                   |                    |       |   |                        |
|                        | BOX, AC POWER (A6,<br>A7) (M1068)                | Repair                         |                          | 0.2 |                   |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.1 |                   |                    |       |   |                        |
|                        | BOX, DC POWER (A8,<br>A9) (M1068)                | Repair                         |                          |     | 0.3               |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.1 |                   |                    |       |   |                        |
|                        | GROUND BOX, SINGLE<br>POINT LAN (A15)<br>(M1068) | Repair                         |                          |     | 0.4               |                    |       |   |                        |
|                        |  | Replace                        |                          | 0.1 |                   |                    |       |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY                               | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|------------------------|---|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|                        |   |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|                        |   |                                | C                        | O   | F                 | H                  | D     |   |                        |
|                        |   | Repair                         |                          | 0.2 |                   |                    |       |   |                        |
|                        | MOUNT, V2 PRINTER<br>(12383945) (M1068)                     | Replace                        |                          | 0.1 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          | 0.3 |                   |                    |       |   |                        |
|                        | PATCH PANEL BOX<br>(A10) (M1068)                            | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          | 0.5 |                   |                    |       |   |                        |
|                        | DATA PANEL ASSY<br>(A12) (M1068)                            | Replace                        |                          | 0.6 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          |     | 0.8               |                    |       |   |                        |
|                        | DATA PANEL ASSY<br>(A13) (M1068)                            | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          |     | 0.8               |                    |       |   |                        |
|                        | BOX ASSY, POWER<br>EXT (A16, A17) (M1068)                   | Replace                        |                          | 0.3 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          | 0.7 |                   |                    |       |   |                        |
| 47                     | GAUGES (NON-<br>ELECTRICAL)                                 |                                |                          |     |                   |                    |       |   |                        |
| 4701                   | SHAFT, ASSEMBLY<br>FLEXIBLE<br>SPEEDOMETER OR<br>TACHOMETER | Replace                        |                          | 0.5 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          | 0.2 |                   |                    |       |   |                        |
| 76                     | FIXED FIRE<br>EXTINGUISHER<br>SYSTEM                        |                                |                          |     |                   |                    |       |   |                        |
| 7603                   | CONTROLS, FIXED<br>FIRE EXTINGUISHER                        | Adjust                         |                          | 0.2 |                   |                    |       |   |                        |
|                        |   | Replace                        |                          | 0.4 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          | 0.5 |                   |                    |       |   |                        |
|                        | CYLINDER  | Service                        |                          |     | 0.4               |                    |       |   |                        |
|                        |   | Replace                        |                          | 0.2 |                   |                    |       |   |                        |
|                        |   | Test                           |                          | 0.2 |                   |                    |       |   |                        |
| 7638                   | PORTABLE FIRE<br>EXTINGUISHER<br>(M1059)                    | Inspect                        | 0.1                      |     |                   |                    |       |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| (1)<br>GROUP<br>NUMBER | (2)<br>COMPONENT/<br>ASSEMBLY                                 | (3)<br>MAINTENANCE<br>FUNCTION | (4)<br>MAINTENANCE LEVEL |     |                   |                    |       | (5)<br>TOOLS AND<br>EQUIPMENT<br>REF CODE | (6)<br>REMARKS<br>CODE |
|------------------------|---|--------------------------------|--------------------------|-----|-------------------|--------------------|-------|---|------------------------|
|                        |   |                                | UNIT                     |     | DIRECT<br>SUPPORT | GENERAL<br>SUPPORT | DEPOT |   |                        |
|                        |   |                                | C                        | O   | F                 | H                  | D     |   |                        |
| 7638                   | PORTABLE FIRE<br>EXTINGUISHER<br>(M1059)                      | Service                        |                          |     | 0.5               |                    |       |   |                        |
|                        |   | Replace                        |                          | 0.1 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          |     | 1.0               |                    |       |   |                        |
|                        |   | Inspect                        | 0.1                      |     |                   |                    |       |   |                        |
| 91                     | CHEMICAL<br>BIOLOGICAL AND<br>RADIOLOGICAL (CBR)<br>EQUIPMENT | Service                        |                          |     | 0.5               |                    |       |   |                        |
|                        |   | Replace                        |                          | 0.1 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          |     | 1.0               |                    |       |   |                        |
| 9116                   | SHOCK MTG INSTL,<br>CRB                                       | Repair                         |                          | 0.7 |                   |                    | 37    |   |                        |
| 9131                   | CHEM AGENT AUTO<br><br>DISTRIB BOX<br><br>RPR PAD, BTRY BRK   | Remove/<br>Install             |                          | 1.8 |                   |                    |       | 4 32 37                                   |                        |
|                        |   | Replace                        |                          | 0.2 |                   |                    |       | 31 37                                     |                        |
|                        |   | Repair                         |                          | 0.3 |                   |                    |       | 31 37                                     |                        |
|                        |   | Repair                         |                          | 0.1 |                   |                    |       | 4 31 37                                   |                        |

Table 2. TOOLS AND TEST REQUIREMENTS, SECTION III

| EQUIPMENT<br>REF CODE | MAINTENANCE<br>LEVEL | NOMENCLATURE   | NATIONAL<br>STOCK NUMBER | TOOL<br>NUMBER         |
|-----------------------|----------------------|--|--------------------------|------------------------|
| 1                     | O                    | SLING, POWER PACK: USED TO LIFT<br>POWER PLANT, ENGINE AND<br>DIFFERENTIAL   | 4910-00-646-6893         | 10942647               |
| 2                     | F                    | MANOMETER, U-TUBE: USED<br>W/4720-00-271-9839 HOSE, 6810-00-<br>285-3450 MERCURY, AND 8950-00-<br>823-7664 FOOD COLORING TO<br>CHECK CRANKCASE PRESSURE,<br>EXHAUST BACK PRESSURE, AIR<br>BOX PRESSURE, AND AIR INTAKE<br>RESTRICTIONS | 6685-00-857-4895         | KM-J21478-1            |
| 3                     | F                    | TUBING, NONMETAL: USED W/6685-<br>00-857-4895 MANOMETER  | 4720-00-271-9839         | MIL-R-6855             |
| 4                     | F                    | MERCURY, REAGENT: USED W/6685-<br>00-857-4895 MANOMETER  | 6810-00-285-3450         | MIL-M191 GR2           |
| 5                     | F                    | GAUGE ASSEMBLY: USED W/4910-<br>00-019-5241 ADAPTER TO CHECK<br>CYLINDER COMPRESSION   | 4910-00-870-6283         | 10899180               |
| 6                     | F                    | ADAPTER, CYLINDER: USED<br>W/4910-00-870-6283 GAUGE<br>ASSEMBLY TO CHECK CYLINDER<br>COMPRESSION   | 4910-00-019-5241         | 10934456, J<br>7915-03 |
| 7                     | H                    | CRADLE ASSEMBLY: USED W/4910-<br>00-737-0432 AND 2520-01-006-4589<br>BRACKETS AND 4910-00-795-0189<br>STAND TO SUPPORT ENGINE OUT<br>OF CARRIER FOR MAINTENANCE  | 4910-00-795-0198         | 7950198                |
| 8                     | H                    | STAND, MAINTENANCE: USED<br>W/4910-00-795-0198 CRADLE<br>ASSEMBLY, 2520-00-006-4589<br>BRACKETS TO SUPPORT ENGINE<br>OUT OF CARRIER FOR<br>MAINTENANCE   | 4910-00-795-0189         | 7950189,<br>MIL-45004  |
| 9                     | H                    | BRACKET: USED FOR MOUNTING<br>ENGINE IN 4910-00-795-0189 CRADLE<br>ASSEMBLY  | 2520-01-006-4589         | 11678105               |
| 10                    | F                    | STUD, CYLINDER HEAD: USED TO<br>ALIGN CYLINDER HEAD  | 4910-00-491-6634         | KM-J-9965              |

## MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| EQUIPMENT<br>REF CODE | MAINTENANCE<br>LEVEL | NOMENCLATURE   | NATIONAL<br>STOCK NUMBER | TOOL<br>NUMBER |
|-----------------------|----------------------|--|--------------------------|----------------|
| 11                    | H                    | INSTALLER BODY, INJECTOR: USED<br>W/4940-00-711-1919 INSTALLER<br>BODY TO INSTALL INJECTOR TUBE                      | 4940-00-711-1918         | 10881893       |
| 12                    | H                    | INSTALLER PILOT, INJECTOR: USED<br>W/4940-00-711-1918 INSTALLER<br>BODY TO INSTALL INJECTOR TUBE                     | 4940-00-711-1919         | 10881896       |
| 13                    | H                    | INSTALLER FLARING DIE,<br>INJECTOR: USED W/4910-00-711-1918<br>TO FLARE SMALL END OF INJECTOR<br>TUBE                | 4940-00-711-1920         | 10881892       |
| 14                    | H                    | REMOVER, CYLINDER LINER  | 5120-00-937-6140         | J-22490        |
| 15                    | H                    | EXPANDER, FRONT OIL SEAL: USED<br>TO EXPAND CRANKSHAFT FRONT<br>OIL SEAL WHEN INSTALLING<br>ENGINE LOWER FRONT COVER | 4910-00-591-6640         | 10949378       |
| 16                    | H                    | EXPANDER, REAR OIL SEAL: USED<br>TO EXPAND REAR OIL SEAL   | 5120-00-918-0587         | KM-J-9769      |
| 17                    | F                    | HOOK, LIFTING: USED TO LIFT<br>FLYWHEEL  | 4910-00-722-3877         | 10881880       |
| 18                    | H                    | STUD, FLYWHEEL ALINING: USED<br>TO ALIGN FLYWHEEL HOUSING OR<br>ENGINE LOWER FRONT COVER                             | 5120-00-872-6015         | KM-J-7540      |
| 19                    | H                    | CLAMP SET, HOLD DOWN<br>CYLINDER: USED TO LOCATE<br>CYLINDER LINES WHEN<br>INSTALLING PISTONS                        | 5120-00-999-8618         | J-21793-01     |
| 20                    | H                    | COMPRESSOR, PISTON RING: USED<br>TO COMPRESS PISTON RINGS WHEN<br>INSTALLING PISTON IN CYLINDER<br>LINER             | 5120-00-901-8651         | KM-J-6883-01   |
| 21                    | H                    | REMOVER AND REPLACER: USED<br>TO REMOVE AND REPLACE PISTON<br>RINGS  | 5120-00-494-1846         | KM-J-8128      |
| 22                    | H                    | REPLACER, PISTON PIN RETAINERS:<br>USED TO REPLACE PISTON PIN<br>RETAINERS   | 5120-00-733-8874         | 10881874       |

## MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| EQUIPMENT<br>REF CODE | MAINTENANCE<br>LEVEL | NOMENCLATURE   | NATIONAL<br>STOCK NUMBER | TOOL<br>NUMBER |
|-----------------------|----------------------|--|--------------------------|----------------|
| 23                    | H                    | REMOVER AND REPLACER: USED TO REMOVE AND REPLACE CAMSHAFT BEARINGS                                       | 5180-00-591-6630         | 10949461       |
| 24                    | H                    | PULLER KIT, MECHANICAL: USED TO REMOVE CAMSHAFT GEAR AND BLOWER GEARS                                    | 5120-00-338-6721         | 8708724        |
| 25                    | H                    | PULLER, MECHANICAL: USED TO REMOVE CRANKSHAFT TIMING GEAR  | 5120-00-740-3345         | KM-J-4871      |
| 26                    | H                    | REPLACER, CRANKSHAFT TIMING GEAR: USED TO INSTALL CRANKSHAFT TIMING GEAR ON CRANKSHAFT (INSTALLING TOOL) | 4910-00-736-1371         | 10949377       |
| 27                    | F                    | REMOVER, VALVE GUIDE: USED TO REMOVE VALVE GUIDE   | 4910-00-591-6632         | 10949450       |
| 28                    | F                    | REPLACER, VALVE GUIDE: USED TO INSTALL VALVE GUIDE (INSTALLING TOOL)                                     | 5120-00-872-6014         | KM-J-9729      |
| 29                    | H                    | REPLACER, VALVE SEAT INSERT: USED TO INSTALL VALVE SEAT INSERTS IN CYLINDER HEAD (INSTALLING TOOL)       | 4910-00-603-8925         | 10949451       |
| 30                    | H                    | TOOL KIT, VALVE SEAT INSERT: USED TO REMOVE VALVE SEAT INSERTS   | 5180-00-591-6631         | 10949470       |
| 31                    | F                    | COMPRESSOR, VALVE SPRING: USED W/4910-00-918-0583 ADAPTER TO REMOVE EXHAUST VALVE SPRINGS                | 5120-00-733-8888         | 10881822       |
| 32                    | F                    | ADAPTER, VALVE SPRING COMPRESSOR: USED W/5120-00-733-8888 COMPRESSOR TO REMOVE EXHAUST VALVE SPRINGS     | 4910-00-918-0583         | KM-J-7455-4    |
| 33                    | F                    | GAUGE, THICKNESS: USED TO CHECK VALVE CLEARANCE (VALVE GAUGE ADJUSTING)                                  | 5220-00-176-0638         | KM-J-9708      |
| 34                    | H                    | INSTALLER, OIL PUMP DRIVE GEAR   | 5120-00-591-6639         | 10949379       |
| 35                    | H                    | TEST FIXTURE: USED W/4910-00-255-8641 TESTER TO TEST INJECTORS   | 4910-00-355-6248         | 65-9288-9237   |

## MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| EQUIPMENT<br>REF CODE | MAINTENANCE<br>LEVEL | NOMENCLATURE  | NATIONAL<br>STOCK NUMBER | TOOL<br>NUMBER |
|-----------------------|----------------------|---|--------------------------|----------------|
| 36                    | H                    | TESTER, INJECTOR: USED W/4910-00-355-6248                                     | 4910-00-255-8641         | 3YFL-05008     |
| 37                    | H                    | ADAPTER, NEEDLE VALVE: USED W/4910-00-355-6248 TEST FIXTURE                   | 4910-00-764-5626         | YA-396         |
| 38                    | F                    | REMOVER, INJECTOR: USED TO REMOVE INJECTOR ASSEMBLY FROM CYLINDER HEAD        | 5120-00-219-8400         | 10881891       |
| 39                    | H                    | REAMER: USED TO CLEAN FLAT PORTION OF INJECTOR NUT SPRAY TIP SEAT             | 5110-00-019-5240         | 10881903       |
| 40                    | H                    | REAMER, SECOND OPERATION: USED TO CLEAN INJECTOR COPPER TUBE                  | 5110-00-294-4606         | 10881907       |
| 41                    | H                    | REAMER, USED TO REAM CARBON FROM INJECTOR SPRAY TIP                           | 5110-00-219-8399         | 5344968        |
| 42                    | H                    | REAMER, FIRST OPERATION: USED TO CLEAN INJECTOR TUBE                          | 5110-00-785-1016         | 10881897       |
| 43                    | H                    | REMOVER, SPRAY TIP: USED TO REMOVE SPRAY TIP FROM INJECTOR NUT                | 5120-00-355-6167         | 10919988       |
| 44                    | H                    | REFINISHER, INJECTOR TUBE TIP: USED TO FACE SMALL END OF INJECTOR TUBE        | 5120-00-785-1017         | 10881902       |
| 45                    | H                    | GAUGE: USED TO TIME INJECTOR  | 5220-00-387-9581         | 10881887       |
| 46                    | F                    | WRENCH: USED TO TORQUE FUEL LINE NUTS   | 5120-00-019-5232         | 10881875       |
| 47                    | F                    | GAUGE, FUEL PRESSURE: USED TO CHECK FUEL PUMP OUTPUT PRESSURE                 | 6620-00-671-4509         | 10934455       |
| 48                    | H                    | INSTALLING HOOK, BLOWER DRIVE CAM: USED TO INSTALL BLOWER DRIVE CAM IN SPRING | 4910-00-591-6633         | KM-J-5209      |
| 49                    | O                    | WRENCH, OPEN END AND BOX: USED TO TORQUE FUEL RETURN LINE NUTS                | 5120-00-740-3347         | 10949344       |
| 50                    | O                    | HOSE ASSEMBLY: USED TO DRAIN BOLT-ON FUEL TANK                                | 4720-00-454-8608         | 11633323       |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| EQUIPMENT<br>REF CODE | MAINTENANCE<br>LEVEL | NOMENCLATURE  | NATIONAL<br>STOCK NUMBER | TOOL<br>NUMBER |
|-----------------------|----------------------|---|--------------------------|----------------|
| 51                    | O                    | TOOL, RADIATOR CLEANING   | 4910-00-611-6559         | 11678393       |
| 52                    | H                    | LIFTING STRAP: USED W/4910-00-673-3801 EYE TO CHECK CONVERTER MOUNTING SPACING OR REMOVE OR INSTALL CONVERTER DRIVE COVER   | 4910-00-572-8608         | 8356175        |
| 53                    | H                    | HOLDER, STATOR ROLLERS: USED TO HOLD STATOR ROLLERS AND SPRING DURING ASSEMBLY  | 4910-00-572-8688         | 8356195        |
| 54                    | H                    | EYE, LIFTING, ADAPTER HOIST: USED W/4910-00-572-8608 STRAP TO LIFT HIGH RANGE CLUTCH PACKAGE & CONVERTER DRIVER COVER   | 4910-00-673-3801         | 10865773       |
| 55                    | H                    | HANDLE, REPLACERS: USED W/5120-00-572-8660, 5120-00-572-8615, 5120-00-572-8656 AND 5120-00-572-8658, REPLACERS TO INSTALL FRONT OIL PUMP SEAL, HIGH CLUTCH HOUSING BUSHING, OUTPUT BEARING AND SEAL, CONVERTER DRIVE COVER BUSHING AND OUTPUT SHAFT BUSHING | 5120-00-316-9182         | 7950864        |
| 56                    | H                    | REPLACER: USED W/5120-00-316-9182 HANDLE TO INSTALL HIGH CLUTCH HOUSING BEARING (DRIVER PLUG)   | 5120-00-572-8656         | 8356202        |
| 57                    | H                    | SNAP RING DRIVER KIT: USED TO INSTALL TURBINE SHAFT SNAP RINGS  | 5120-00-572-8663         | 8356191        |
| 58                    | H                    | PULLER BOLT: USED TO REMOVE GROUND SLEEVE DIAPHRAGM ASSEMBLY  | 4910-00-572-8699         | 8356200        |
| 59                    | F                    | REPLACER: USED W/5120-00-316-9182 HANDLE TO INSTALL OUTPUT BEARING AND OIL SEAL (DRIVER PLUG BEARING)   | 5120-00-572-8615         | 8356185        |
| 60                    | F                    | PULLER: USED TO REMOVE REAR SEAL  | 5120-00-572-8712         | 8356201        |



## MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| EQUIPMENT<br>REF CODE | MAINTENANCE<br>LEVEL | NOMENCLATURE  | NATIONAL<br>STOCK NUMBER | TOOL<br>NUMBER |
|-----------------------|----------------------|---|--------------------------|----------------|
| 61                    | F                    | PRESSURE GAUGE KIT: USED TO CHECK TRANSMISSION OIL PRESSURE   | 4910-00-572-8612         | 8356176        |
| 62                    | F                    | SLING, TRANSMISSION: USED TO LIFT TRANSMISSION AND TO MOUNT TRANSMISSION IN STAND (ADAPTER HOIST)   | 4910-00-572-8614         | 8356184        |
| 63                    | H                    | COMPRESSOR, CLUTCH PACKAGE: USED TO COMPRESS AND HOLD CLUTCH PACKAGE DURING INSTALLATION AND REMOVAL OR TO COMPRESS REVERSE CLUTCH PACKAGE TO REMOVE OR INSTALL HOLDING PIN | 4910-00-572-8643         | 8356187        |
| 64                    | H                    | REMOVER AND REPLACER, TOOL KIT: USED TO REMOVE AND REPLACE CLUTCH PISTON RETURN SPRING RETAINING RING   | 5120-00-572-8607         | 8356170        |
| 65                    | H                    | REPLACER: USED W/5120-00-316-9182 HANDLE TO INSTALL HIGH CLUTCH HOUSING BEARING (DRIVER PLUG BEARING)   | 5120-00-572-8658         | 8356174        |
| 66                    | H                    | BOLT, CLAMPING: USED TO HOLD INTERMEDIATE CLUTCH BACK PLATE IN POSITION DURING BUILD UP AND DISASSEMBLY   | 4910-00-572-8701         | 8356186        |
| 67                    | H                    | GUIDE BOLT SET: USED TO POSITION FRONT AND REAR OIL PUMPS AND FRONT AND REAR PILOT TUBES AND DIAPHRAGM  | 4910-00-572-8710         | 8356165        |
| 68                    | H                    | REPLACER: USED W/5120-00-316-9182 HANDLE TO INSTALL FRONT OIL PUMP SEAL (DRIVER PLUG BEARING)   | 5120-00-572-8660         | 8356173        |
| 69                    | O                    | REMOVER AND REPLACER: USED TO REMOVE AND REPLACE TRANSFER GEARCASE AND DIFFERENTIAL RESILIENT MOUNTS  | 5120-00-740-3346         | 10943279       |
| 70                    | O                    | ADAPTER: APPLY TORQUE TO TRANSFER GEARCASE LEFT MOUNT   | 1025 00-215 8200         | 11663358-2     |

## MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| EQUIPMENT<br>REF CODE | MAINTENANCE<br>LEVEL | NOMENCLATURE  | NATIONAL<br>STOCK NUMBER | TOOL<br>NUMBER |
|-----------------------|----------------------|---|--------------------------|----------------|
| 71                    | H                    | REPLACER: USED TO INSTALL<br>TRANSFER GEARCASE RETAINER<br>AND HOUSING BEARING CUPS   | 5120-00-776-1864         | 10886353       |
| 72                    | O                    | LIFTING BAR: USED TO REMOVE<br>AND REPLACE FINAL DRIVER   | 5120-00-918-0586         | 11589384       |
| 73                    | H                    | REMOVER AND REPLACER: USED<br>TO REMOVE AND REPLACE OUTPUT<br>SHAFT BEARING   | 5120-00-771-7019         | 10874765       |
| 74                    | H                    | REMOVER AND REPLACER, OIL<br>SEAL: USED TO REMOVE AND<br>REPLACE FINAL DRIVE OUTPUT<br>SHAFT OIL SEAL   | 5120-00-771-7020         | 10875335       |
| 75                    | F                    | REMOVER AND REPLACER, OIL<br>SEAL: USED TO REMOVE AND<br>REPLACE FINAL DRIVE OUTPUT<br>SHAFT SPACER, RETAINER AND<br>BEARING; AND USED W/5315-00-834-<br>0118 PIN AND 5120-00-678-2796<br>REPLACER COMPENSATING IDLER<br>ARM SPINDLE INNER AND OUTER<br>BEARING | 5120-00-771-7018         | 10875326       |
| 76                    | O                    | ADAPTER, TORQUE WRENCH: USED<br>TO TORQUE POWER TRAIN<br>UNIVERSAL JOINT SCREWS   | 5120-00-977-7421         | 10917666       |
| 77                    | H                    | TOOL, GAUGE, DIFFERENTIAL<br>BACKLASH: USED AS ALINING<br>TOOL IN CONJUNCTION WITH DIAL<br>INDICATOR  | 5120-00-074-1164         | 10942815       |
| 78                    | H                    | DRIVER PLUG, BEARING AND<br>BUSHING: USED TO REMOVE AND<br>REPLACE RIGHT ANGLE DRIVE<br>PINION INNER AND OUTER<br>BEARINGS  | 5120-00-649-8126         | 10865981       |
| 79                    | H                    | REMOVER AND REPLACER: USED<br>W/5120-00-678-2798 REMOVER AND<br>REPLACER TO REMOVE RIGHT<br>ANGLE PINION GEAR FROM<br>HOUSING   | 5120-00-649-8140         | 10865984       |

## MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| EQUIPMENT<br>REF CODE | MAINTENANCE<br>LEVEL | NOMENCLATURE   | NATIONAL<br>STOCK NUMBER | TOOL<br>NUMBER |
|-----------------------|----------------------|--|--------------------------|----------------|
| 80                    | H                    | REMOVER AND REPLACER, SLEEVE, SNAP RING: USED TO REPLACE RIGHT ANGLE DRIVE HUB BEARING   | 5120-00-678-2789         | 10865770       |
| 81                    | O                    | REMOVER AND REPLACER: USED TO REMOVE RIGHT ANGLE DRIVE PINION GEAR: USED W/5120-00-649-8140 SLEEVE TO REMOVE RIGHT DRIVE CARRIER AND OUTER BEARING, AND TO REPLACE RIGHT ANGLE DRIVE PINION BEARING CAP OIL SEAL OR DIFFERENTIAL SHAFT BEARING CAP OIL SEAL; REMOVE AND REPLACE IDLER AND ROAD WHEEL ARM HOUSING BEARINGS AND OIL SEAL | 5120-00-678-2798         | 8763117        |
| 82                    | O                    | WRENCH, PLUG: USED TO REMOVE AND REPLACE TORSION BAR PLUG  | 5120-00-053-3625         | 10932504       |
| 83                    | O                    | ADAPTER, MECHANICAL PULLER: USED W/5120-00-557-3615 PULLER TO REMOVE TORSION BAR   | 5120-00-322-5953         | 7083703        |
| 84                    | O                    | PULLER, SLIDE HAMMER TYPE: USED W/5120-00-322-5953 ADAPTER TO REMOVE TORSION BAR; AND W/5120-00-933-8458 TO REMOVE TRACK PIN   | 5120-00-557-3615         | 5573615        |
| 85                    | O                    | ADAPTER, PULLER, TO PULL TRACK PIN: USED WITH PULLER 5120-00-557-3615  | 5120-00-933-8458         | 11592843       |
| 86                    | O                    | REPLACER, OIL SEAL: USED TO INSTALL IDLER AND ROAD WHEEL HUB OIL SEALS   | 5365-00-004-0763         | 10863001       |
| 87                    | O                    | REPLACER, WHEEL HUB: USED TO INSTALL ROAD WHEEL HUB INNER AND OUTER BEARING CUPS   | 5120-01-102-4627         | 12269371       |
| 88                    | O                    | GAUGE, SPROCKET WEAR: USED TO CHECK DRIVER SPROCKET WEAR, AND TRACK BUSHING WEAR   | 5120-01-041-9920         | 12253280       |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0779 00

| EQUIPMENT<br>REF CODE | MAINTENANCE<br>LEVEL | NOMENCLATURE   | NATIONAL<br>STOCK NUMBER | TOOL<br>NUMBER |
|-----------------------|----------------------|--|--------------------------|----------------|
| 89                    | O                    | FIXTURE, TRACK CONNECTION:<br>USED TO DISCONNECT AND<br>CONNECT TRACKS (2 REQUIRED<br>PER OPERATION) | 5120-01-041-4624         | 12253183       |
| 90                    | O                    | DRIFT PIN: USED TO DISCONNECT<br>TRACKS AND CHECK TRACK  | 5120-01-006-8847         | 11678718       |
| 91                    | O                    | LIFTER, ROAD WHEEL: USED TO<br>LIFT ROAD WHEELS  | 5120-01-062-5607         | 11268612       |
| 92                    | F                    | REMOVER AND REPLACER: USED<br>TO REMOVE AND REPLACE PIVOT<br>STEER PISTON DRAG UNIT                  | 5120-00-966-5951         | 10932469       |
| 93                    | F                    | SOCKET, SOCKET WRENCH:<br>REMOVE AND REPLACE MASTER<br>CYLINDER RESILIENT VALVE                      | 5120-00-557-8171         | 11633523       |
| 94                    | O                    | REMOVER, SHOCK ABSORBER:<br>USED TO REMOVE SHOCK<br>ABSORBER   | 5120-01-102-4628         | 12269380       |
| 95                    | H                    | TOOL SET: USED TO REMOVE AND<br>REPLACE OVERSIZE ROSAN<br>INSERTS                                    | 5180-00-966-5961         | 10932474       |
| 96                    | H                    | HOLDER KIT, OVERSIZE ROSAN<br>INSERT   | 5180-00-966-5958         | 10932383       |
| 97                    | H                    | REMOVER, FUEL VALVE SCREEN:<br>USED TO REMOVE HEATER FUEL<br>VALVE SCREEN                            | 5120-00-735-5871         | 735871         |
| 98                    | H                    | SCRAPER, CARBON: USED TO<br>REMOVE CARBON FROM HEATER<br>COMBUSTION CHAMBER                          | 5120-00-735-5872         | 7355872        |
| 99                    | O                    | REPLACER, IDLER HUB BEARING:<br>USED TO INSTALL IDLER HUB<br>BEARING                                 | 5120-01-102-4627         | 12269371       |
| 100                   | O                    | SCALE, SPRING DIAL INDICATOR:<br>USED TO ADJUST DIFFERENTIAL<br>STEERING BRAKES                      | 6670-00-259-4634         | AA-S-133       |

Table 3. REMARKS, SECTION IV

| REMARKS CODE | REMARKS  |
|--------------|--|
| A            | 1. 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.<br>2. THE POWER PLANT IS NOT AN AUTHORIZED REPLACEMENT PART. |
| B            | COMPLETE REPAIR IS AUTHORIZED AT GENERAL SUPPORT MAINTENANCE. SEE TM 9-2350-261-24P 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 9-2350-261-24P.  |
| D            | REPAIR IS LIMITED TO PARTS AUTHORIZED IN TM 9-2350-261-24P.  |
| E            | COMPLETE REPAIR IS AUTHORIZED AT DIRECT SUPPORT MAINTENANCE. SEE TM 9-2350-261-24P 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 9-2350-261-24P FOR PARTS REPLACED BY UNIT MAINTENANCE. SEE TM 9-2520-254-34P FOR PARTS REPLACED BY DIRECT SUPPORT MAINTENANCE.                            |
| H            | COMPLETE REPAIR IS AUTHORIZED AT GENERAL SUPPORT MAINTENANCE. SEE TM 9-2350-261-24P FOR PARTS REPLACED BY UNIT MAINTENANCE. SEE TM 9-2520-238-34P FOR PARTS REPLACED BY DIRECT SUPPORT MAINTENANCE.                            |
| I            | 1. TRACK SHOE REMOVAL MAY BE REQUIRED TO ADJUST THE TRACK PROPERLY.<br>2. THE TRACK ASSEMBLY IS NOT AUTHORIZED AS A REPAIR PART.   |
| J            | SEE TM 9-2350-261-10 AND TB 750-651 FOR CREW SERVICE.  |
| K            | THE ASSEMBLY IS NOT AUTHORIZED AS A REPAIR PART.   |
| M            | SEE TM 3-1040-283-20&P FOR CREW SERVICES, UNIT REPAIR, AND MAINTENANCE ALLOCATION CHART (MAC).   |
| N            | SEE TM 3-1040-283-20&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 9-2450-207-14&P FOR UNIT REPAIR, DIRECT SUPPORT REPAIR AND MAINTENANCE ALLOCATION CHART (MAC).  |
| R            | SEE TM 9-6115-664-13&P FOR UNIT REPAIR, DIRECT SUPPORT REPAIR AND MAINTENANCE ALLOCATION CHART (MAC).  |
| S            | REPLACEMENT TIME IS FOR ONE SIDE ONLY.   |

**COMMON TOOLS AND SUPPLEMENTS AND SPECIAL TOOLS/FIXTURES LIST**

**0780 00**

**INTRODUCTION**

**Scope**

This work package lists all common tools, supplements and special tools/fixtures needed to maintain the M113A2, M577A2, M901A1, M1059, M1064, and M1068 carriers.

Common and special tools for the 120-mm (4.7-inch) M298 mortar, mortar mounts, and turntables are listed in TM 9-1015-250-23.

**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 0780 00, Item 105)”).

*Column (2) — Name.* This column lists the item by noun nomenclature and other descriptive features (e.g., “Wrench set, socket, 1/4 inch 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)<br>ITEM NO. | (2)<br>ITEM NAME                                 | (3)<br>NATIONAL STOCK NUMBER | (4)<br>PART NUMBER | (5)<br>REFERENCE  |
|-----------------|--|------------------------------|--------------------|-------------------|
| 1               | ADAPTER  | 5120-00-933-8458             | 11592843           | TM 9-2350-261-24P |
| 2               | ADAPTER, SPDL, SANDER                            | 5130-00-293-2330             | CP-50              | SC4910-95-CL-A74  |
| 3               | ADAPTER, SOCKET, TORQUE                          | 5120-00-227-8088             | A-A-2172           | SC4910-95-CL-A72  |
| 4               | ADAPTER, SOCKET, TORQUE, 1/2 TO 3/8 INCH DRIVE   | 5120-00-240-8703             | A-A-2172           | SC4931-95-CL-A22  |
| 5               | ADAPTER, SOCKET, WRENCH, 3/4 X 1/2 INCH          | 5120-00-144-5207             | 11655788-3         | SC4931-95-CL-A22  |
| 6               | ADAPTER, TORQUE WRENCH, 7C U-JOINT               | 5120-00-213-6976             | 11663358-1         | TM 9-2350-261-24P |
| 7               | ADAPTER, TORQUE WRENCH, 6C U-JOINT               | 5120-00-215-8200             | 11663358-2         | TM 9-2350-261-24P |
| 8               | ADAPTER, TORQUE WRENCH, 1/2 INCH DRIVE 9/16 INCH | 5120-00-977-7421             | 10917666           | TM 9-2350-261-24P |
| 9               | ADAPTER, TORSION BAR                             | 5120-01-017-5328             | 12251805           | TM 9-2350-261-24P |
| 10              | ADJUSTING TOOL, STEER CENTERING                  | 2530-01-249-6439             | J35223             | TM 9-2350-261-24P |
| 11              | BAR, LIFTING, FINAL DRIVE                        | 5120-00-918-0586             | 11589384           | TM 9-2350-261-24P |

## COMMON TOOLS AND SUPPLEMENTS AND SPECIAL TOOLS/FIXTURES

0780 00

## LIST — Continued

| (1)<br>ITEM<br>NO. | (2)<br>ITEM NAME                        | (3)<br>NATIONAL STOCK<br>NUMBER | (4)<br>PART NUMBER | (5)<br>REFERENCE  |
|--------------------|---|---------------------------------|--------------------|-------------------|
| 12                 | BATTERY TERMINAL CLEANER                | 5120-00-926-5175                | BT1                | SC4910-95-CL-A74  |
| 13                 | BLADE, HAND HACKSAW                     | 5110-00-277-4588                | 31-51024           | SC4910-95-CL-A74  |
| 14                 | BRACKET, ANGLE, LIFTING                 | 5340-01-264-5991                | 12354718           | TM 9-2350-261-24P |
| 15                 | CALKING GUN                             | 5120-00-679-5655                | 101                | TM 9-2350-261-24P |
| 16                 | CAN, RADIATOR FILLING                   | 7240-00-499-8028                | MIL-C-43522        | TM 9-2350-261-24P |
| 17                 | CLEANING TOOL, RADIATOR                 | 4910-00-611-6559                | 11678393           | TM 9-2350-261-24P |
| 18                 | CRIMPING TOOL, TERMINAL                 | 5120-00-432-7836                | MY28               | TM 9-2350-261-24P |
| 19                 | CRIMPING TOOL                           | 5120-00-596-9313                | M22520/5-100       | SC5180-95-CL-A52  |
| 20                 | CROW FOOT ATTACHMENT                    | 5120-00-184-8397                | FC18A              | TM 9-2350-261-24P |
| 21                 | DRILL, PORTABLE ELECTRIC 1/4 INCH       | 5130-00-889-8994                | W-D-661            | SC4910-95-CL-A72  |
| 22                 | DRILL, PORTABLE ELECTRIC 1/2 INCH       | 5130-00-293-1849                | W-D-661            | SC4910-95-CL-A74  |
| 23                 | DRILL SET                               | 5133-00-293-0983                | DB129B             | SC4910-95-CL-A74  |
| 24                 | FITTING KIT, TUBE-PIPE                  | 4730-00-470-6625                | 51025              | SC4910-95-CL-A74  |
| 25                 | FIXTURE, TRACK CONNECTING               | 5120-01-041-4624                | 12253183           | TM 9-2350-261-24P |
| 26                 | FRAME, HACKSAW                          | 5110-00-289-9657                | 163-20             | SC4910-95-CL-A74  |
| 27                 | GAUGE, OIL PRESSURE                     | 6695-01-242-6795                | 11650182           | TM 9-2350-261-24P |
| 28                 | GAUGE, TRACK AND SPROCKET               | 5120-01-041-9920                | 12253280           | TM 9-2350-261-24P |
| 29                 | GENERAL MECHANIC'S TOOL KIT             | 5180-00-177-7033                | SC5180-90-CL-N26   | SC5180-90-CL-N26  |
| 30                 | GLOVES, WELDER'S                        | 8415-00-268-7859                | A-A-50022          | SC4910-95-CL-A72  |
| 31                 | GOGGLES, INDUSTRIAL                     | 4240-00-052-3776                | A-A-1110           | SC4910-95-CL-A74  |
| 32                 | GUN, AIR BLOW                           | 4940-00-333-5541                | DGA520             | SC4910-95-CL-A74  |
| 33                 | GUN, SOLDERING                          | 3439-00-618-6623                | D550-3             | SC4910-95-CL-A74  |
| 34                 | HEATER, GUN                             | 4940-00-561-1002                | 500A               | SC5180-95-CL-B19  |
| 35                 | HELMET, WELDER'S                        | 4240-00-540-0623                | A-A-1994           | SC4940-95-CL-A08  |
| 36                 | HOSE ASSEMBLY                           | 4720-00-454-8608                | 11633323           | TM 9-2350-261-24P |
| 37                 | JACK, HYDRAULIC, HAND (12 TON CAPACITY) | 5120-00-224-7330                | E12-9A             | SC4910-95-CL-A74  |
| 38                 | LIFTER, ROAD WHEEL (T130)               | 5120-01-062-5607                | 12268612           | TM 9-2350-261-24P |
| 39                 | LIFTER, ROAD WHEEL (T150)               | 5120-01-496-3694                | 12474852           | TM 9-2350-261-24P |
| 40                 | LUBRICATING GUN, HAND                   | 4930-00-253-2478                | 1142               | SC4910-95-CL-A74  |
| 41                 | BODY AND FENDER REPAIR KIT              | 5180-00-754-0643                | SC5180-90-CL-N34   | SC5180-90-CL-N34  |

**COMMON TOOLS AND SUPPLEMENTS AND SPECIAL TOOLS/FIXTURES**  
**LIST — Continued**

0780 00

| (1)<br>ITEM<br>NO. | (2)<br>ITEM NAME                     | (3)<br>NATIONAL STOCK<br>NUMBER | (4)<br>PART NUMBER  | (5)<br>REFERENCE  |
|--------------------|--------------------------------------|---------------------------------|---------------------|-------------------|
| 42                 | MIRROR, INSPECTION                   | 5120-00-596-1098                | 24                  | TM 9-2350-261-24P |
| 43                 | MULTIMETER                           | 6625-01-139-2512                | T00377              | SC4910-95-CL-A74  |
| 44                 | PLIERS, ELECTRICAL CONNECTOR         | 5120-00-624-8065                | AT508K              | TM 9-2350-261-24P |
| 45                 | PLIERS SET, RETAINING                | 5120-00-789-0492                | 4440R               | TM 9-2350-261-24P |
| 46                 | PRESS, LEAD SEAL, HAND               | 5120-00-224-7592                |                     | TM 9-2350-261-24P |
| 47                 | PULLER, BATTERY TERMINAL             | 5120-00-944-4268                | 21                  | SC4910-95-CL-A74  |
| 48                 | PULLER KIT, UNIVERSAL                | 5180-01-048-2153                | J24171              | TM 9-2350-261-24P |
| 49                 | PULLER, MECHANICAL                   | 5120-00-557-3615                | 5573615             | TM 9-2350-261-24P |
| 50                 | PULLER, MECHANICAL                   | 5120-00-595-9305                | GGG-P-781           | SC4910-95-CL-A74  |
| 51                 | PUNCH, DRIVE PIN                     | 5120-01-006-8847                | 11678718            | TM 9-2350-261-24P |
| 52                 | RADIATOR TESTING KIT                 | 4910-00-728-8227                | ST255A              | TM 9-2350-261-24P |
| 53                 | REMOVAL TOOL, OIL FILTER             | 5120-00-865-0933                | 2304                | SC4910-95-CL-A74  |
| 54                 | REMOVAL TOOL, SHOCK                  | 5120-01-102-4628                | 12269380            | TM 9-2350-261-24P |
| 55                 | REMOVER AND REPLACER                 | 4910-01-128-0092                | 12269522            | TM 9-2350-261-24P |
| 56                 | REMOVER AND REPLACER                 | 5120-00-740-3346                | 10943279            | TM 9-2350-261-24P |
| 57                 | REMOVER AND REPLACER                 | 5120-00-678-2789                | 10865770            | TM 9-2350-261-24P |
| 58                 | REPLACER, GREASE CAP                 | 5120-00-678-2796                | 10863002            | TM 9-2350-261-24P |
| 59                 | REPLACER, IDLER BEARING              | 5120-01-102-4627                | 12269371            | TM 9-2350-261-24P |
| 60                 | RIVET, BLIND, HAND                   | 5120-00-017-2849                | 250K                | TM 9-2350-261-24P |
| 61                 | ROD, GROUND (COMES IN 3<br>SECTIONS) | 5975-00-642-8937                | 6-1-1912-21-<br>48A | TM 9-2350-261-24P |
| 62                 | SANDER, ELECTRICAL DISK              | 5130-00-596-9728                | 00-S-90             | SC4910-95-CL-A73  |
| 63                 | SCALE, WEIGHING                      | 6670-00-254-4634                | AAA-S-133           | TM 9-2350-261-24P |
| 64                 | SCREW, CAP, SOCKET HEAD              | 5305-00-983-7456                | MS16998-97          | TM 9-2350-261-24P |
| 65                 | SCREWDRIVER SET, CROSS-TIP           | 5130-01-115-6873                | SDDZ50              | SC4910-95-CL-A74  |
| 66                 | SLING, ENDLESS                       | 3940-00-675-5003                | PD101-96            | TM 9-2350-261-24P |
| 67                 | SLING, ENGINE AND TRANSMISSION       | 1450-01-240-2206                | 12350306            | TM 9-2350-261-24P |
| 68                 | SLING ASSEMBLY                       | 4910-00-646-6893                | 10942647            | TM 9-2350-261-24P |
| 69                 | SOCKET, UNIVERSAL                    | 5120-00-237-0978                | A-A-1401            | SC4910-95-CL-A74  |
| 70                 | SOLDER TORCH KIT                     | 3439-00-542-0531                | JT25                | SC4910-95-CL-A74  |
| 71                 | SPACER, RING                         | 5365-00-004-0763                | 10863001            | TM 9-2350-261-24P |
| 72                 | STAND, TEST, RADIATOR                | 4910-00-078-9190                | MILS4534            | TM 9-2350-261-24P |



## COMMON TOOLS AND SUPPLEMENTS AND SPECIAL TOOLS/FIXTURES

0780 00

## LIST — Continued

| (1)<br>ITEM<br>NO. | (2)<br>ITEM NAME                              | (3)<br>NATIONAL STOCK<br>NUMBER | (4)<br>PART NUMBER | (5)<br>REFERENCE   |
|--------------------|---|---------------------------------|--------------------|--------------------|
| 73                 | STE/ICER-R TEST SET                           | 4910-01-222-6589                | 12259266           | TM 9-4910-571-12&P |
| 74                 | STRIPPER, WIRE, HAND                          | 5110-00-268-4224                | GA116              | TM 9-2350-261-24P  |
| 75                 | TAPE, MEASURING                               | 5120-00-554-7085                | GGG-T-106          | TM 9-2350-261-24P  |
| 76                 | TENSIOMETER, V-BELT                           | 6635-00-921-6255                | 12998F             | TM 9-2350-261-24P  |
| 77                 | TESTER, ANTIFREEZE AND BATTERY                | 6630-00-105-1418                | 10425              | SC4910-95-CL-A74   |
| 78                 | TEST KIT, ALTERNATOR                          | 6625-01-505-5996                | 12358697           | TM 9-2350-261-24P  |
| 79                 | TEST KIT, RESERVE ALKALINITY                  | 6630-01-011-5039                | 311521             | TM 9-2350-261-24P  |
| 80                 | TOOL KIT, ELECTRICAL                          | 5180-00-876-9336                | 7550526            | SC4910-95-CL-A74   |
| 81                 | TOOL KIT, ELECTRONIC EQUIPMENT                | 5180-00-064-5178                | TK-101/G           | SC5180-91-CL-R13   |
| 82                 | TOOL, TRACK PIN ALIGNMENT                     | 5220-01-504-2610                | 12474881           | TM 9-2350-261-24P  |
| 83                 | WISE, MACHINIST                               | 5120-00-293-1439                | 504M2              | SC4910-95-CL-A74   |
| 84                 | WELDING MACHINE, ARC                          | 3431-01-032-6289                | 7550000            | TM 9-2350-261-24P  |
| 85                 | WELDING SHOP, TRAILER MOUNTED                 | 3431-01-090-1231                | 11022000           | SC3431-95-CL-A04   |
| 86                 | WRENCH, ADJUSTABLE                            | 5120-00-423-6728                | AC115              | TM 9-2350-261-24P  |
| 87                 | WRENCH, ADJUSTABLE, 0 TO 3-5/8<br>INCH        | 5120-00-449-8083                | WA615              | SC4910-95-CL-A74   |
| 88                 | WRENCH, ADJUSTABLE, 1-5/16 X 12<br>INCH       | 5120-00-264-3796                | MPA339             | SC4910-95-CL-A74   |
| 89                 | INSERTER, SCREW                               | 5120-01-159-6487                | CR12W              | TM 9-2350-261-24P  |
| 90                 | WRENCH, OPEN END 1 X 1 1/8 INCH               | 5120-00-187-7133                | S3236              | SC4910-95-CL-A74   |
| 91                 | WRENCH, OPEN END, 1-15/16 X 1-1/2<br>INCH     | 5120-00-277-2323                | 39A                | TM 9-2350-261-24P  |
| 92                 | WRENCH, OPEN END BOX                          | 5120-00-740-3347                | 10949344           | TM 9-2350-261-24P  |
| 93                 | WRENCH, PIPE                                  | 5120-00-277-1461                | MPA345             | SC4910-95-CL-A74   |
| 94                 | WRENCH SET, OPEN END, FIXED                   | 5120-00-148-7918                | B107.6TY2          | SC4910-95-CL-A74   |
| 95                 | WRENCH SET, SOCKET, 1/4 INCH<br>DRIVE         | 5120-00-081-2305                | GGG-W-641          | SC4910-95-CL-A74   |
| 96                 | WRENCH SET, SOCKET, 3/8 INCH<br>DRIVE         | 5120-00-322-6231                | GGG-W-641          | SC4910-95-CL-A74   |
| 97                 | WRENCH SET, SOCKET, 3/4 INCH<br>DRIVE         | 5120-00-204-1999                | FED STD 353        | SC4910-95-CL-A72   |
| 98                 | WRENCH, SOCKET, 3/4 INCH DRIVE,<br>15/16 INCH | 5120-00-181-6813                | A-A-1394           | SC4910-95-CL-A74   |
| 99                 | WRENCH, SOCKET ATTACHMENT                     | 5120-00-053-3625                | 10932504           | TM 9-2350-261-24P  |

**COMMON TOOLS AND SUPPLEMENTS AND SPECIAL TOOLS/FIXTURES  
LIST — Continued**

**0780 00**

| (1)<br>ITEM<br>NO. | (2)<br>ITEM NAME                          | (3)<br>NATIONAL STOCK<br>NUMBER | (4)<br>PART NUMBER | (5)<br>REFERENCE  |
|--------------------|---|---------------------------------|--------------------|-------------------|
| 100                | WRENCH, TORQUE, 3/8 DRIVE, 0-150<br>LB-IN | 5120-00-230-6380                | TE-12A             | TM 9-2350-261-24P |
| 101                | WRENCH, TORQUE, 3/8 DRIVE, 0-200<br>LB-IN | 5120-00-853-4538                | F200-1             | SC4910-95-CL-A72  |
| 102                | WRENCH, TORQUE, 3/8 DRIVE, 0-600<br>LB-IN | 5120-00-542-5681                | B58                | SC5180-95-CL-A12  |
| 103                | WRENCH, TORQUE, 1/2 DRIVE, 0-175<br>LB-FT | 5120-00-640-6364                | A-A-2411           | SC4910-95-CL-A74  |
| 104                | WRENCH, TORQUE, 1/2 DRIVE, 0-150<br>LB-FT | 5120-00-247-2540                | F150               | SC4910-95-CL-A74  |
| 105                | WRENCH, TORQUE, 3/4 DRIVE, 0-600<br>LB-FT | 5120-00-221-7983                | TE602A             | SC4910-95-CL-A74  |
| 106                | WRENCH, TORQUE, 1/4 DRIVE, 0-75<br>LB-IN  | 5120-01-112-9532                | TQSC6A             | SC4910-95-CL-A72  |



---

**FABRICATED TOOLS**

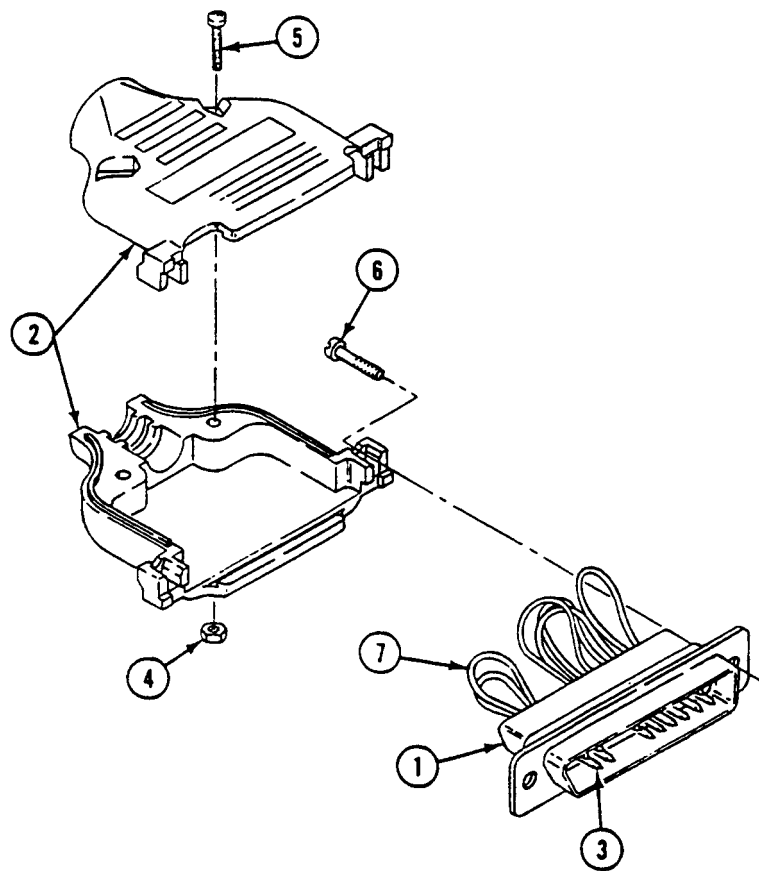
---

**0781 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.



Inverter Test Solo Plug (M1068 Only)

## 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.

**EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST**

**0782 00**

**INTRODUCTION**

**Scope**

This appendix lists expendable supplies and materials you will need to maintain the M113A2, M577A2, M901A1, M1059, M1064, and M1068 carriers. These items are authorized to you by CTA 50-970, *Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items)*.

The expendable supplies and materials you will need to maintain the 4.7-inch (120-mm) M298 mortar, mortar mounts, and turntable used on the M1064 carrier are listed in TM 9-1015-250-23.

**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 Materials/Parts to identify the material (e.g., “Automotive grease (Item 9)”).

*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)<br>ITEM<br>NUMBER | (2)<br>LEVEL | (3)<br>NATIONAL<br>STOCK NUMBER | (4)<br>ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER | (5)<br>U/M |
|-----------------------|--------------|---------------------------------|---|------------|
| 1                     | O            | 5350-00-221-0872                | ABRASIVE CLOTH (CROCUS)<br>(81348) P-C-458        | SH         |
| 2                     | O            | 8040-00-664-4318                | ADHESIVE<br>(18876) 9995460                       | CA         |
| 3                     | O            | 8040-01-068-2423                | ADHESIVE<br>(94960) 2141PT                        | PT         |
| 4                     | O            | 8040-00-833-9563                | ADHESIVE (RTV)<br>(81349) MIL-A-46106 GP1 TY1     | KT         |
| 5                     | O            | 9150-00-985-7244                | AIRCRAFT GREASE<br>(81349) MILG23827              | OZ         |
| 6                     | O            | 4720-01-074-4978                | AIR DUCT HOSE<br>(19207) 8724783-3                | FT         |
| 7                     | O            | 6850-00-181-7940                | ANTIFREEZE<br>(81349) MILA46153                   | GL         |
| 8                     | O            | 8030-00-251-3980                | ANTISEIZE COMPOUND<br>(81349) MIL-A-907           | LB         |
| 9                     | O            | 9150-01-197-7692                | AUTOMOTIVE GREASE<br>(81349) MIL-G-10924          | LB         |

## EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST — Continued

0782 00

| (1)<br>ITEM<br>NUMBER | (2)<br>LEVEL | (3)<br>NATIONAL<br>STOCK NUMBER | (4)<br>ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER    | (5)<br>U/M |
|-----------------------|--------------|---------------------------------|--|------------|
| 10                    | O            | 8030-00-290-5141                | BITUMINOUS COMPOUND<br>(81349) MIL-C-450             | GL         |
| 11                    | O            | 8020-00-297-6657                | BRUSH, PAINT, SASH & TRIM<br>(81348) H-B-491         | EA         |
| 12                    | O            | 8030-00-577-4740                | CAULKING COMPOUND<br>(81348) TT-C-1796               | GL         |
| 13                    | O            | 4010-00-585-2108                | CHAIN END RING BEAD<br>(16003) C43974                | EA         |
| 14                    | O            | 7920-00-044-9281                | CLEANING CLOTH<br>(51200) MIRACLEWIPEL001            | LB         |
| 15                    | O            | 6850-00-227-1887                | CLEANING COMPOUND<br>(81349) MILC43454               | QT         |
| 16                    | O            | 6850-01-277-0595                | CLEANING COMPOUND, SOLVENT<br>(59557) 134 HI-SOLV    | CT         |
| 17                    | O            | 8030-00-244-1299                | CORROSION PREVENTIVE COMPOUND<br>(81349) MILC16173   | GL         |
| 18                    | O            | 8020-00-720-9739                | CORROSION RESISTANT COMPOUND<br>(81349) MIL-C-81706  | OZ         |
| 19                    | O            | 9150-01-152-4119                | ENGINE LUBRICATING OIL<br>(81349) MILL2104GRADE15W40 | GL         |
| 20                    | O            | 8010-00-959-4661                | EPOXY COATING KIT<br>(81349) MIL-C-22750             | EA         |
| 21                    | O            | 8010-01-313-8702                | EPOXY COATING KIT<br>(81349) MIL-PRF-22750           | KT         |
| 22                    | O            | 9150-00-231-9062                | GENERAL LUBRICATING OIL<br>(81348) VVL800            | GL         |
| 23                    | O            | 7930-00-531-9715                | GENERAL PURPOSE DETERGENT<br>(81349) MIL-D-16791     | GL         |
| 24                    | O            | 9150-01-197-7690                | GREASE, AUTOMOTIVE 1.75 LB<br>(81349) MIL-G-10924    | CN         |
| 25                    | O            | 9150-01-197-7689                | GREASE, AUTOMOTIVE 6.5 LB<br>(81349) MIL-G-10924     | CN         |
| 26                    | O            | 9150-00-190-0906                | GREASE, AUTOMOTIVE 25 LB<br>(81349) MIL-G-10924      | CN         |
| 27                    | O            | 9150-00-111-6256                | HYDRAULIC FLUID (FRH)<br>(81349) MIL-PRF-46170       | QT         |
| 28                    | O            | 9150-00-935-9807                | HYDRAULIC FLUID (OHT)<br>(81349) MIL-H-6083          | QT         |

## EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST — Continued

0782 00

| (1)<br>ITEM<br>NUMBER | (2)<br>LEVEL | (3)<br>NATIONAL<br>STOCK NUMBER | (4)<br>ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER | (5)<br>U/M |
|-----------------------|--------------|---------------------------------|---|------------|
| 29                    | O            | 5970-01-159-8000                | INSULATING COMPOUND<br>(83574) PR1568AEROSOL      | OZ         |
| 30                    | O            | 5970-00-063-1495                | INSULATION SLEEVING<br>(81349) M23053/1-103-0     | FT         |
| 31                    | O            | 5970-00-063-1499                | INSULATION SLEEVING<br>(81349) M23053/1-102-0     | FT         |
| 32                    | O            | 5970-00-063-1496                | INSULATION SLEEVING<br>(81349) M23053/1-105-0     | FT         |
| 33                    | O            | 5970-00-954-1624                | INSULATION SLEEVING<br>(81349) M23053/5-107-0     | FT         |
| 34                    | O            | 5970-01-044-4531                | INSULATION SLEEVING<br>(81349) M23053/1-104-0     | FT         |
| 35                    | O            | 5970-00-816-6056                | INSULATION TAPE<br>(81348) HH-I-595-B-108-0       | FT         |
| 36                    | O            | 6640-00-285-4694                | LENS PAPER<br>(81348) NNN-P-40                    | EA         |
| 37                    | O            | 9150-00-292-9689                | LUBRICATING OIL, WEAPONS<br>(81349) MIL-L-14107   | QT         |
| 38                    | O            | 6810-00-286-3785                | METHYL ISOBUTYL KETONE<br>(81349) D1153           | GL         |
| 39                    | O            | 9150-00-754-2595                | MOLYBDENUM D GREASE<br>(81349) MIL-G-21164        | LB         |
| 40                    | O            | 9505-00-293-4208                | NON-ELECTRICAL WIRE<br>(96906) MS20995C32         | LB         |
| 41                    | O            | 4720-00-177-0671                | NONMETALLIC HOSE<br>(19207) 11662995              | EA         |
| 42                    | O            | 4720-01-114-7686                | NONMETALLIC HOSE<br>(19207) 11662995-2            | EA         |
| 43                    | O            | 4720-01-106-6616                | NONMETALLIC HOSE<br>(19207) 11662995-3            | EA         |
| 44                    | O            | 4720-00-177-0672                | NONMETALLIC HOSE<br>(19207) 11662996              | EA         |
| 45                    | O            | 4720-00-491-0102                | HOSE NONMETALLIC<br>(96906) MS521301A203R         | FT         |
| 46                    | O            | 5330-00-807-2874                | NONMETALLIC SPECIAL SEAL<br>(19207) 10861633      | EA         |
| 47                    | O            | 4720-01-063-1848                | NONMETALLIC TUBING<br>(19207) 11678025            | FT         |



## EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST — Continued

0782 00

| (1)<br>ITEM<br>NUMBER | (2)<br>LEVEL | (3)<br>NATIONAL<br>STOCK NUMBER | (4)<br>ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER        | (5)<br>U/M |
|-----------------------|--------------|---------------------------------|--|------------|
| 48                    | O            | 8125-01-082-9697                | OIL SAMPLE BOTTLES<br>(81996) PD8125-1                   | EA         |
| 49                    | O            | 8010-01-419-1162                | PAINT, SEAFOAM GREEN<br>(81349) M22750-002Q-24533        | KT         |
| 50                    | O            | 5350-01-127-6855                | PAPER, ABRASIVE<br>(58536) A-A-1201                      | EA         |
| 51                    | O            | 8105-00-837-7754                | PLASTIC BAG<br>(58536) A-A-1779                          | EA         |
| 52                    | O            | 9330-00-614-9056                | PLASTIC SHEET<br>(19207) 10943241                        | EA         |
| 53                    | O            | 8010-01-193-0519                | PRIMER<br>(81349) MIL-P-53030                            | QT         |
| 54                    | O            | 8010-00-292-1127                | PRIMER COATING<br>(81348) TT-P-664                       | GL         |
| 55                    | O            | 8010-00-515-2208                | PRIMER COATING<br>(81348) TT-P-1757                      | GL         |
| 56                    | O            | 9320-00-272-2990                | RUBBER ADHESIVE TAPE<br>(81349) MIL-T-6841               | FT         |
| 57                    | O            | 9390-00-142-6414                | RUBBER SPECIAL SEAL<br>(19207) 10932464                  | EA         |
| 58                    | O            | 8030-00-900-2373                | SEALING COMPOUND PRIMER<br>(05972) 764-55-MIL-S-22473    | GL         |
| 59                    | O            | 8030-00-656-1426                | SEALING COMPOUND<br>(62377) MIL-S-45180TY3               | PT         |
| 60                    | O            | 8030-01-166-0675                | SEALING COMPOUND<br>(05972) 567-47                       | TU         |
| 61                    | O            | 8030-00-159-8177                | SEALING COMPOUND<br>(81349) MIL-S-12158                  | KT         |
| 62                    | O            | 8030-00-081-2326                | SEALING COMPOUND<br>(05972) 078-21                       | CC         |
| 63                    | O            | 8030-00-753-5004                | SEALING COMPOUND<br>(83574) PR-1440B-1/2                 | OZ         |
| 64                    | O            | 8030-00-252-3391                | SEALING COMPOUND<br>(81349) MIL-S-45180TY2               | OZ         |
| 65                    | O            | 8030-00-204-9149                | SEALING COMPOUND<br>(05972) 592-41                       | TU         |
| 66                    | O            | 8030-00-275-8110                | SEALING COMPOUND, ADHESIVE CURING<br>(81349) MIL-S-11031 | KT         |

## EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST — Continued

0782 00

| (1)<br>ITEM<br>NUMBER | (2)<br>LEVEL | (3)<br>NATIONAL<br>STOCK NUMBER | (4)<br>ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER    | (5)<br>U/M |
|-----------------------|--------------|---------------------------------|--|------------|
| 67                    | O            | 8030-00-081-2339                | SEALING COMPOUND<br>(05972) 088-21-MIL-S-22473       | BX         |
| 68                    | O            | 8105-00-290-0340                | SHIPPING SACK<br>(58536) A-A-160                     | BX         |
| 69                    | O            | 6850-00-880-7616                | SILICONE COMPOUND<br>(81349) MILS8660                | OZ         |
| 70                    | O            | 6810-00-264-6618                | SODIUM BICARBONATE<br>(81348) O-S-576                | LB         |
| 71                    | O            | 3439-00-453-5472                | TIN ALLOY SOLDER<br>(81348) SN60WRMAP2 0.036 1LB     | LB         |
| 72                    | O            | 4020-00-270-8673                | TWINE, FIBROUS<br>(75678) 22340-9                    | SP         |
| 73                    | O            | 5610-00-141-7838                | WALKWAY COMPOUND — NON SKID<br>(80244) MIL-W-5044TY2 | GL         |
| 74                    | O            | 4010-00-724-8287                | WELDED CHAIN<br>(19207) 10932700P                    | FT         |
| 75                    | O            | 4010-01-029-8248                | WELDLESS CHAIN<br>(80205) NAS1455B1-600              | EA         |
| 76                    | O            | 7920-00-205-1711                | WIPING RAG<br>(58536) A-A-2522                       | LB         |



INDEX

| <u>Subject</u>                                     | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| 30 Cal. Gun Mount Adapter Assembly                 |                                 |
| Installation .....                                 | 0665 00-1                       |
| Removal .....                                      | 0665 00-1                       |
| 5.0 KW Auxiliary Power Unit                        |                                 |
| Replace .....                                      | 0473 00-1                       |
| 7.62MM M60 Machine Gun Mount Assembly              |                                 |
| Installation .....                                 | 0664 00-2                       |
| Removal .....                                      | 0664 00-1                       |
| <br><b>A</b><br>                                   |                                 |
| Accelerator Linkage                                |                                 |
| Transmission and Lower                             |                                 |
| Assembly .....                                     | 0398 00-2                       |
| Disassembly .....                                  | 0398 00-1                       |
| Inspection-Acceptance and Rejection Criteria ..... | 0397 00-4, 0398 00-2            |
| Installation .....                                 | 0397 00-4                       |
| Removal .....                                      | 0397 00-1                       |
| Upper  |                                 |
| Assembly .....                                     | 0400 00-2                       |
| Disassembly .....                                  | 0400 00-1                       |
| Inspection-Acceptance and Rejection Criteria ..... | 0400 00-2                       |
| Installation .....                                 | 0399 00-3                       |
| Removal .....                                      | 0399 00-1                       |
| Accelerator Pedal                                  |                                 |
| Lower  |                                 |
| Adjustment .....                                   | 0395 00-2                       |
| Inspection-Acceptance and Rejection Criteria ..... | 0395 00-1                       |
| Installation .....                                 | 0395 00-2                       |
| Removal .....                                      | 0395 00-1                       |
| Upper  |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0396 00-2                       |
| Installation .....                                 | 0396 00-3                       |
| Removal .....                                      | 0396 00-1                       |
| Access Cover                                       |                                 |
| Driver's Compartment                               |                                 |
| Clean, Inspect, and Repair .....                   | 0439 00-2                       |
| Installation .....                                 | 0439 00-2                       |
| Removal .....                                      | 0439 00-1                       |
| Fuel Tank  |                                 |
| M577A2 and M1068                                   |                                 |
| Installation .....                                 | 0156 00-2                       |
| Removal .....                                      | 0156 00-1                       |
| M981 and M1064                                     |                                 |
| Installation .....                                 | 0145 00-2                       |
| Removal .....                                      | 0145 00-1                       |
| Hull Front   |                                 |
| Installation .....                                 | 0429 00-2                       |
| Removal .....                                      | 0429 00-1                       |

INDEX, cont'd

| <u>Subject</u>                           | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Power Plant Bottom                       |                                 |
| Clean, Inspect, and Repair .....         | 0434 00-3                       |
| Installation .....                       | 0434 00-3                       |
| Removal .....                            | 0434 00-2                       |
| Access Door, Radiator                    |                                 |
| Assembly .....                           | 0205 00-2                       |
| Disassembly .....                        | 0205 00-1                       |
| Seals and Fasteners                      |                                 |
| Installation .....                       | 0204 00-3                       |
| Removal .....                            | 0204 00-1                       |
| Repair .....                             | 0204 00-2                       |
| Access Panel, Power Plant                |                                 |
| Installation .....                       | 0430 00-2                       |
| Removal .....                            | 0430 00-1                       |
| Adapter                                  |                                 |
| Speedometer Cable                        |                                 |
| Installation .....                       | 0248 00-2                       |
| Removal .....                            | 0248 00-1                       |
| Tachometer Cable                         |                                 |
| Installation .....                       | 0246 00-3                       |
| Removal .....                            | 0246 00-1                       |
| Adjustable Idler and Pulley, Fan Drive   |                                 |
| Installation .....                       | 0213 00-2                       |
| Removal .....                            | 0213 00-1                       |
| Adjuster, Track Tension                  |                                 |
| Clean, Inspect, and Replace .....        | 0378 00-2                       |
| Installation .....                       | 0378 00-2                       |
| Removal .....                            | 0378 00-1                       |
| Adjustment Linkage                       |                                 |
| 100 Amp Generator                        |                                 |
| Installation .....                       | 0227 00-4                       |
| Removal .....                            | 0227 00-1                       |
| 200 Amp Generator                        |                                 |
| Installation .....                       | 0228 00-4                       |
| Removal .....                            | 0228 00-1                       |
| Admittance Buzzer and Switch             |                                 |
| Clean, Inspect, and Repair .....         | 0282 00-2                       |
| Installation .....                       | 0282 00-2                       |
| Removal .....                            | 0282 00-1                       |
| Air Box Drain Hoses, Tubes, and Fittings |                                 |
| Installation .....                       | 0126 00-2                       |
| Removal .....                            | 0126 00-1                       |

INDEX, cont'd

| <u>Subject</u>                                  | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Air Box Heater                                  |                                 |
| Ignition Air Pump                               |                                 |
| Installation .....                              | 0177 00-2                       |
| Removal .....                                   | 0177 00-1                       |
| Ignition Coil                                   |                                 |
| Installation .....                              | 0176 00-2                       |
| Removal .....                                   | 0176 00-1                       |
| Installation .....                              | 0180 00-2                       |
| Removal .....                                   | 0180 00-1                       |
| Solenoid Valve                                  |                                 |
| Installation .....                              | 0179 00-3                       |
| Removal .....                                   | 0179 00-1                       |
| Wiring Harness                                  |                                 |
| Installation .....                              | 0181 00-2                       |
| Removal .....                                   | 0181 00-1                       |
| Air Box Heater to Fuel Return Tee Tube and Hose |                                 |
| Installation .....                              | 0169 00-4                       |
| Removal .....                                   | 0169 00-1                       |
| Air Cleaner                                     |                                 |
| Cover   |                                 |
| Installation .....                              | 0184 00-2                       |
| Removal .....                                   | 0184 00-2                       |
| Filter Element                                  |                                 |
| Servicing .....                                 | 0182 00-1                       |
| Hoses   |                                 |
| Installation .....                              | 0183 00-2                       |
| Removal .....                                   | 0183 00-1                       |
| Housing   |                                 |
| Installation .....                              | 0185 00-2                       |
| Removal .....                                   | 0185 00-1                       |
| Restriction Indicator and Hose                  |                                 |
| Installation .....                              | 0186 00-2                       |
| Removal .....                                   | 0186 00-1                       |
| Air Control Valve                               |                                 |
| Installation .....                              | 0187 00-4                       |
| Removal .....                                   | 0187 00-1                       |
| Air Control Valve Cable                         |                                 |
| Installation .....                              | 0188 00-2                       |
| Removal .....                                   | 0188 00-1                       |
| Air Intake Pipes, Heater                        |                                 |
| All Except M1064                                |                                 |
| Installation .....                              | 0622 00-3                       |
| Removal .....                                   | 0622 00-2                       |
| M1064 Only                                      |                                 |
| Installation .....                              | 0623 00-2                       |
| Removal .....                                   | 0623 00-1                       |

INDEX, cont'd

| <u>Subject</u>                    | <u>WP Sequence No.-Page No.</u> |
|-----------------------------------|---------------------------------|
| Air Pump Vanes                    |                                 |
| Installation .....                | 0178 00-2                       |
| Removal .....                     | 0178 00-1                       |
| Air Ventilator, Rear Compartment  |                                 |
| Installation .....                | 0471 00-3                       |
| Removal .....                     | 0471 00-2                       |
| Alternator/Generator Test Kit     |                                 |
| Connect .....                     | 0019 00-1                       |
| Disconnect .....                  | 0019 00-5                       |
| Ammunition Rack                   |                                 |
| Horizontal                        |                                 |
| Assembly .....                    | 0508 00-4                       |
| Cleaning .....                    | 0508 00-4                       |
| Disassembly .....                 | 0508 00-2                       |
| Inspection and Repair .....       | 0508 00-4                       |
| Installation .....                | 0507 00-3                       |
| Removal .....                     | 0507 00-2                       |
| Vertical                          |                                 |
| Installation .....                | 0506 00-3                       |
| Removal .....                     | 0506 00-2                       |
| Ammunition Stowage Rack           |                                 |
| Installation .....                | 0547 00-2                       |
| Removal .....                     | 0547 00-1                       |
| Anchor, Torsion Bar               |                                 |
| Clean, Inspect, and Replace ..... | 0386 00-2                       |
| Installation .....                | 0386 00-2                       |
| Removal .....                     | 0386 00-2                       |
| Antenna                           |                                 |
| Cover                             |                                 |
| Installation .....                | 0528 00-2                       |
| Removal .....                     | 0528 00-1                       |
| Guard                             |                                 |
| Installation .....                | 0527 00-2                       |
| Removal .....                     | 0527 00-1                       |
| Mast Base Assembly                |                                 |
| Assembly .....                    | 0554 00-7                       |
| Disassembly .....                 | 0554 00-6                       |
| Installation .....                | 0554 00-7                       |
| Removal .....                     | 0554 00-1                       |
| Mast Bracket Assembly             |                                 |
| Assembly .....                    | 0554 00-7                       |
| Disassembly .....                 | 0554 00-6                       |
| Installation .....                | 0554 00-7                       |
| Removal .....                     | 0554 00-1                       |

INDEX, cont'd

| <u>Subject</u>                             | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Arm Assembly, Idler Wheel                  |                                 |
| Clean, Inspect, and Replace .....          | 0377 00-2                       |
| Installation .....                         | 0377 00-3                       |
| Removal .....                              | 0377 00-2                       |
| Armor                                      |                                 |
| Side                                       |                                 |
| Installation .....                         | 0474 00-2                       |
| Removal .....                              | 0474 00-1                       |
| Smoke Generator                            |                                 |
| Installation .....                         | 0713 00-3                       |
| Removal .....                              | 0713 00-2                       |
| Armor Shield                               |                                 |
| Commander's Cupola                         |                                 |
| Installation .....                         | 0663 00-3                       |
| Removal .....                              | 0663 00-2                       |
| Rear                                       |                                 |
| Installation .....                         | 0668 00-3                       |
| Removal .....                              | 0668 00-1                       |
| Rear, Mounting Arm Lock Assembly and Mount |                                 |
| Installation .....                         | 0669 00-2                       |
| Removal .....                              | 0669 00-1                       |
| Artillery Communication Kit, Inside Cable  |                                 |
| Installation .....                         | 0662 00-2                       |
| Removal .....                              | 0662 00-1                       |
| Auxiliary Power (Slave) Receptacle         |                                 |
| All Except M577A2 and M1068                |                                 |
| Installation .....                         | 0218 00-4                       |
| Removal .....                              | 0218 00-1                       |
| M577A2 and M1068                           |                                 |
| Installation .....                         | 0219 00-4                       |
| Removal .....                              | 0219 00-1                       |
| Auxiliary Power Unit                       |                                 |
| Hoses                                      |                                 |
| Fuel Supply, Bulkhead-to-Hull              |                                 |
| Installation .....                         | 0596 00-4                       |
| Removal .....                              | 0596 00-2                       |
| Fuel Supply, Valve-to-Bulkhead             |                                 |
| Installation .....                         | 0595 00-4                       |
| Removal .....                              | 0595 00-2                       |
| Valve, Fuel Shutoff                        |                                 |
| Installation .....                         | 0594 00-3                       |
| Removal .....                              | 0594 00-2                       |



INDEX, cont'd

| <u>Subject</u>                      | <u>WP Sequence No.-Page No.</u> |
|-------------------------------------|---------------------------------|
| Auxiliary Tank                      |                                 |
| Installation .....                  | 0206 00-3                       |
| Removal .....                       | 0206 00-1                       |
| Auxiliary Tank Deaeration Hoses     |                                 |
| Installation .....                  | 0209 00-2                       |
| Removal .....                       | 0209 00-1                       |
| Auxiliary Tank to Coolant Pump Tube |                                 |
| Installation .....                  | 0207 00-2                       |
| Removal .....                       | 0207 00-1                       |
| Auxiliary Tank to Radiator Tube     |                                 |
| Installation .....                  | 0208 00-2                       |
| Removal .....                       | 0208 00-1                       |
| Azimuth Lock, Commander's Cupola    |                                 |
| Installation .....                  | 0453 00-2                       |
| Removal .....                       | 0453 00-1                       |
| <b>B</b>                            |                                 |
| Backrest, Personnel Seat            |                                 |
| Installation .....                  | 0497 00-3                       |
| Removal .....                       | 0497 00-2                       |
| Balance Hose                        |                                 |
| Installation .....                  | 0203 00-2                       |
| Removal .....                       | 0203 00-1                       |
| Base, Smoke Grenade Launcher        |                                 |
| Installation .....                  | 0576 00-2                       |
| Removal .....                       | 0576 00-1                       |
| Batteries and Retainers             |                                 |
| All Except M1064                    |                                 |
| Clean and Inspect .....             | 0302 00-3                       |
| Installation .....                  | 0302 00-3                       |
| Removal .....                       | 0302 00-1                       |
| M1064 Only                          |                                 |
| Clean and Inspect .....             | 0303 00-3                       |
| Installation .....                  | 0303 00-3                       |
| Removal .....                       | 0303 00-1                       |
| Battery                             |                                 |
| Access Cover                        |                                 |
| M1068 Only                          |                                 |
| Installation .....                  | 0297 00-2                       |
| Removal .....                       | 0297 00-1                       |
| M577A2 Only                         |                                 |
| Installation .....                  | 0296 00-2                       |
| Removal .....                       | 0296 00-1                       |

INDEX, cont'd

| <u>Subject</u>                               | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Box  |                                 |
| Assembly .....                               | 0305 00-3                       |
| Clean and Inspect .....                      | 0305 00-2                       |
| Disassembly .....                            | 0305 00-1                       |
| Cover and Ground Lead                        |                                 |
| Clean, Inspect, and Repair .....             | 0295 00-3                       |
| Installation .....                           | 0295 00-4                       |
| Removal .....                                | 0295 00-1                       |
| Drawer                                       |                                 |
| Assembly .....                               | 0306 00-3                       |
| Clean and Inspect .....                      | 0306 00-3                       |
| Disassembly .....                            | 0306 00-1                       |
| Leads  |                                 |
| M1068 Only                                   |                                 |
| Clean, Inspect, and Repair .....             | 0298 00-3                       |
| Installation .....                           | 0298 00-4                       |
| Removal .....                                | 0298 00-1                       |
| M577A2 Only                                  |                                 |
| Clean, Inspect, and Repair .....             | 0299 00-2                       |
| Installation .....                           | 0299 00-3                       |
| Removal .....                                | 0299 00-1                       |
| Battery Box Cover                            |                                 |
| Assembly .....                               | 0304 00-2                       |
| Clean and Inspect .....                      | 0304 00-1                       |
| Disassembly .....                            | 0304 00-1                       |
| Battery Box Insulation and Heat Exchanger    |                                 |
| M113A2, M901A1, and M1059                    |                                 |
| Clean, Inspect, and Repair .....             | 0310 00-2                       |
| Installation .....                           | 0310 00-3                       |
| Removal .....                                | 0310 00-1                       |
| M577A2 and M1068                             |                                 |
| Clean, Inspect, and Repair .....             | 0309 00-3                       |
| Installation .....                           | 0309 00-4                       |
| Removal .....                                | 0309 00-1                       |
| Battery Drawer Insulation and Heat Exchanger |                                 |
| Clean, Inspect, and Repair .....             | 0308 00-3                       |
| Installation .....                           | 0308 00-4                       |
| Removal .....                                | 0308 00-1                       |
| Battery Ground Lead                          |                                 |
| Connect .....                                | 0294 00-2                       |
| Disconnect .....                             | 0294 00-1                       |
| Battery Leads                                |                                 |
| Clean, Inspect, and Repair .....             | 0300 00-3                       |
| Installation .....                           | 0300 00-4                       |
| Removal .....                                | 0300 00-1                       |

INDEX, cont'd

| <u>Subject</u>                    | <u>WP Sequence No.-Page No.</u> |
|-----------------------------------|---------------------------------|
| <b>Bearings and Seals</b>         |                                 |
| Road Wheel Support Arm            |                                 |
| Clean, Inspect, and Replace ..... | 0374 00-3                       |
| Installation .....                | 0374 00-3                       |
| Removal .....                     | 0374 00-1                       |
| <b>Bearings, Idler Wheel Arm</b>  |                                 |
| Clean, Inspect, and Replace ..... | 0376 00-2                       |
| Installation .....                | 0376 00-2                       |
| Removal .....                     | 0376 00-1                       |
| <b>Belt</b>                       |                                 |
| 100 Amp Generator Drive           |                                 |
| Installation .....                | 0226 00-2                       |
| Removal .....                     | 0226 00-1                       |
| Repair or Replacement .....       | 0226 00-2                       |
| 200 Amp Generator Drive           |                                 |
| Installation .....                | 0234 00-2                       |
| Removal .....                     | 0234 00-1                       |
| <b>Belts, Personnel Seat</b>      |                                 |
| Installation .....                | 0496 00-3                       |
| Removal .....                     | 0496 00-2                       |
| <b>Bilge Pump</b>                 |                                 |
| Circuit Breakers                  |                                 |
| Installation .....                | 0327 00-2                       |
| Removal .....                     | 0327 00-1                       |
| System Schematic .....            | 0068 00-1                       |
| <b>Blackout</b>                   |                                 |
| Marker Light                      |                                 |
| Assembly .....                    | 0259 00-2                       |
| Clean, Inspect, and Repair .....  | 0259 00-1                       |
| Disassembly .....                 | 0259 00-1                       |
| Installation .....                | 0258 00-2                       |
| Removal .....                     | 0258 00-1                       |
| <b>Blackout Curtain</b>           |                                 |
| Installation .....                | 0499 00-3                       |
| Removal .....                     | 0499 00-1                       |
| <b>Blackout Headlight</b>         |                                 |
| Clean, Inspect, and Repair .....  | 0260 00-1                       |
| Installation .....                | 0260 00-2                       |
| Removal .....                     | 0260 00-1                       |
| <b>Blower Switch</b>              |                                 |
| Installation .....                | 0336 00-2                       |
| Removal .....                     | 0336 00-1                       |

INDEX, cont'd

| <u>Subject</u>                                     | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Bracket  |                                 |
| Driver's Windshield                                |                                 |
| Installation .....                                 | 0624 00-2                       |
| Removal .....                                      | 0624 00-1                       |
| High-Stow  |                                 |
| Assembly .....                                     | 0477 00-3                       |
| Disassembly .....                                  | 0477 00-2                       |
| Installation .....                                 | 0477 00-4                       |
| Removal .....                                      | 0477 00-1                       |
| Infrared Power Supply Shock Mount                  |                                 |
| Installation .....                                 | 0292 00-2                       |
| Removal .....                                      | 0292 00-1                       |
| Test and Inspection .....                          | 0292 00-1                       |
| Mortar Base Stowage                                |                                 |
| Installation .....                                 | 0544 00-2                       |
| Removal .....                                      | 0544 00-1                       |
| Muffler  |                                 |
| Installation .....                                 | 0191 00-2                       |
| Removal .....                                      | 0191 00-1                       |
| Oil Can  |                                 |
| Clean, Inspect, and Repair .....                   | 0524 00-1                       |
| Installation .....                                 | 0524 00-2                       |
| Removal .....                                      | 0524 00-1                       |
| Personnel Heater Control Box and Intercom Box      |                                 |
| Installation .....                                 | 0555 00-2                       |
| Removal .....                                      | 0555 00-1                       |
| Pivot Steer  |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0411 00-2                       |
| Installation .....                                 | 0411 00-3                       |
| Removal .....                                      | 0411 00-1                       |
| Rifle  |                                 |
| Installation .....                                 | 0525 00-2                       |
| Removal .....                                      | 0525 00-1                       |
| Tripod Stowage                                     |                                 |
| Installation .....                                 | 0551 00-4                       |
| Removal .....                                      | 0551 00-2                       |
| Track Shoe Stowage                                 |                                 |
| Installation .....                                 | 0553 00-2                       |
| Removal .....                                      | 0553 00-1                       |
| Windshield Stowage                                 |                                 |
| Installation .....                                 | 0542 00-2                       |
| Removal .....                                      | 0542 00-1                       |
|  |                                 |
| Brake Assembly, Commander's Cupola                 |                                 |
| Installation .....                                 | 0452 00-2                       |
| Removal .....                                      | 0452 00-1                       |
|  |                                 |
| Brake Disk, Pivot Steer                            |                                 |
| Installation .....                                 | 0414 00-2                       |
| Removal .....                                      | 0414 00-1                       |

INDEX, cont'd

| <u>Subject</u>                                     | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Brake Levers, Differential Steering                |                                 |
| Clean, Inspect, and Repair .....                   | 0394 00-2                       |
| Installation .....                                 | 0394 00-2                       |
| Removal .....                                      | 0394 00-1                       |
| Brake Locking Pawl                                 |                                 |
| Adjustment .....                                   | 0388 00-1                       |
| Brake, Differential                                |                                 |
| Adjustment .....                                   | 0362 00-1                       |
| Breather Hose, Ramp Cylinder                       |                                 |
| All Except M1064                                   |                                 |
| Installation .....                                 | 0591 00-2                       |
| Removal .....                                      | 0591 00-1                       |
| M1064 Only   |                                 |
| Installation .....                                 | 0592 00-2                       |
| Removal .....                                      | 0592 00-1                       |
| Breather, Differential Oil Level Dipstick          |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0357 00-2                       |
| Installation .....                                 | 0357 00-2                       |
| Removal .....                                      | 0357 00-1                       |
| Bulkhead Connection to Primary Fuel Filter Hose    |                                 |
| Installation .....                                 | 0163 00-3                       |
| Removal .....                                      | 0163 00-1                       |
| Bypass Switch, Dome Blackout Light                 |                                 |
| Installation .....                                 | 0281 00-2                       |
| Removal .....                                      | 0281 00-1                       |
| <b>C</b>   |                                 |
| Cable  |                                 |
| AC Cable Assembly (W252)                           |                                 |
| Installation .....                                 | 0755 00-3                       |
| Removal .....                                      | 0755 00-2                       |
| AC Light (W11)                                     |                                 |
| Installation .....                                 | 0747 00-2                       |
| Removal .....                                      | 0747 00-1                       |
| AC Power Extension (W7)                            |                                 |
| Installation .....                                 | 0743 00-2                       |
| Removal .....                                      | 0743 00-1                       |
| AC Power Extension (W8)                            |                                 |
| Installation .....                                 | 0744 00-2                       |
| Removal .....                                      | 0744 00-1                       |
| Air Control Valve                                  |                                 |
| Installation .....                                 | 0188 00-2                       |
| Removal .....                                      | 0188 00-1                       |

INDEX, cont'd

| <u>Subject</u>                   | <u>WP Sequence No.-Page No.</u> |
|----------------------------------|---------------------------------|
| Artillery Communication (Inside) |                                 |
| Installation .....               | 0662 00-2                       |
| Removal .....                    | 0662 00-1                       |
| Cascade Remote Harness           |                                 |
| Installation .....               | 0745 00-2                       |
| Removal .....                    | 0745 00-1                       |
| DC Battery (W4)                  |                                 |
| Installation .....               | 0740 00-3                       |
| Removal .....                    | 0740 00-2                       |
| DC Power Extension (W10)         |                                 |
| Installation .....               | 0746 00-2                       |
| Removal .....                    | 0746 00-1                       |
| Ground Strap (W12)               |                                 |
| Installation .....               | 0748 00-2                       |
| Removal .....                    | 0748 00-1                       |
| Harness (W32)                    |                                 |
| Installation .....               | 0749 00-3                       |
| Removal .....                    | 0749 00-1                       |
| Inverter AC (W5)                 |                                 |
| Installation .....               | 0741 00-3                       |
| Removal .....                    | 0741 00-2                       |
| Inverter DC (W6)                 |                                 |
| Installation .....               | 0742 00-2                       |
| Removal .....                    | 0742 00-1                       |
| LAN A or B (W103/W104)           |                                 |
| Installation .....               | 0756 00-3                       |
| Removal .....                    | 0756 00-1                       |
| Power Distribution (W3)          |                                 |
| Installation .....               | 0739 00-2                       |
| Removal .....                    | 0739 00-1                       |
| Single Point LAN (W40)           |                                 |
| Installation .....               | 0752 00-2                       |
| Removal .....                    | 0752 00-1                       |
| Speedometer                      |                                 |
| Assembly .....                   | 0249 00-2                       |
| Disassembly .....                | 0249 00-1                       |
| Tachometer                       |                                 |
| Installation .....               | 0246 00-3                       |
| Removal .....                    | 0246 00-1                       |
| W124                             |                                 |
| Installation .....               | 0757 00-3                       |
| Removal .....                    | 0757 00-1                       |
| W126                             |                                 |
| Installation .....               | 0758 00-2                       |
| Removal .....                    | 0758 00-1                       |
| W28, W29, and Adapter            |                                 |
| Installation .....               | 0751 00-2                       |
| Removal .....                    | 0751 00-1                       |
| W35, W28, and Adapter            |                                 |
| Installation .....               | 0750 00-2                       |
| Removal .....                    | 0750 00-1                       |

INDEX, cont'd

| <u>Subject</u>                   | <u>WP Sequence No.-Page No.</u> |
|----------------------------------|---------------------------------|
| W4/W6                            |                                 |
| Assembly .....                   | 0759 00-2                       |
| Disassembly .....                | 0759 00-1                       |
| W42, W43, and W251               |                                 |
| Installation .....               | 0753 00-2                       |
| Removal .....                    | 0753 00-1                       |
| W45                              |                                 |
| Installation .....               | 0754 00-2                       |
| Removal .....                    | 0754 00-1                       |
| Cable Assembly                   |                                 |
| Fog Oil Pump                     |                                 |
| Installation .....               | 0701 00-3                       |
| Removal .....                    | 0701 00-2                       |
| Smoke Generator, Internal        |                                 |
| Installation .....               | 0702 00-3                       |
| Removal .....                    | 0702 00-2                       |
| Cable Assembly, Repair           |                                 |
| Assembly .....                   | 0314 00-2                       |
| Clean, Inspect, and Repair ..... | 0314 00-2                       |
| Disassembly .....                | 0314 00-1                       |
| Cable Reel Holder Assembly       |                                 |
| Assembly .....                   | 0510 00-2                       |
| Disassembly .....                | 0510 00-1                       |
| Installation .....               | 0509 00-2                       |
| Removal .....                    | 0509 00-1                       |
| Cable, Control                   |                                 |
| Fuel Cutoff                      |                                 |
| Adjustment .....                 | 0403 00-5                       |
| Installation .....               | 0403 00-4                       |
| Removal .....                    | 0403 00-1                       |
| Hand Throttle                    |                                 |
| Adjustment .....                 | 0402 00-3                       |
| Installation .....               | 0402 00-3                       |
| Removal .....                    | 0402 00-2                       |
| Cap, Oil Filler                  |                                 |
| Installation .....               | 0128 00-3                       |
| Removal .....                    | 0128 00-2                       |
| Capstan Kit                      |                                 |
| Drum Adapter                     |                                 |
| Installation .....               | 0654 00-2                       |
| Removal .....                    | 0654 00-1                       |
| Drum Assembly                    |                                 |
| Installation .....               | 0653 00-2                       |
| Removal .....                    | 0653 00-1                       |

INDEX, cont'd

| <u>Subject</u>                     | <u>WP Sequence No.-Page No.</u> |
|------------------------------------|---------------------------------|
| Cargo Hatch                        |                                 |
| Door                               |                                 |
| Installation .....                 | 0464 00-4                       |
| Removal .....                      | 0464 00-2                       |
| Hold-Open Hook and Bumpers         |                                 |
| Installation .....                 | 0465 00-2                       |
| Removal .....                      | 0465 00-1                       |
| Latch                              |                                 |
| Assembly .....                     | 0469 00-2                       |
| Disassembly .....                  | 0469 00-1                       |
| Latch, Interior                    |                                 |
| Adjustment .....                   | 0463 00-6                       |
| Installation .....                 | 0463 00-4                       |
| Removal .....                      | 0463 00-2                       |
| Support                            |                                 |
| Installation .....                 | 0470 00-2                       |
| Removal .....                      | 0470 00-1                       |
| Chain Assembly                     |                                 |
| Assembly .....                     | 0659 00-3                       |
| Disassembly .....                  | 0659 00-2                       |
| Installation .....                 | 0658 00-2                       |
| Removal .....                      | 0658 00-1                       |
| Chemical Agent Automatic Alarm Kit |                                 |
| Distribution Box                   |                                 |
| Assembly .....                     | 0774 00-3                       |
| Disassembly .....                  | 0774 00-2                       |
| Installation .....                 | 0773 00-2                       |
| Removal .....                      | 0773 00-1                       |
| M42 Alarm Unit Cable               |                                 |
| Installation .....                 | 0775 00-2                       |
| Removal .....                      | 0775 00-1                       |
| Mounting Bracket                   |                                 |
| Installation .....                 | 0777 00-3                       |
| Removal .....                      | 0777 00-2                       |
| Wiring Harness                     |                                 |
| Installation .....                 | 0776 00-3                       |
| Removal .....                      | 0776 00-2                       |
| Circuit 6 Lead                     |                                 |
| Clean, Inspect, and Repair .....   | 0301 00-2                       |
| Installation .....                 | 0301 00-3                       |
| Removal .....                      | 0301 00-1                       |
| Circuit Breaker                    |                                 |
| Dome Light                         |                                 |
| Installation .....                 | 0280 00-2                       |
| Removal .....                      | 0280 00-1                       |



INDEX, cont'd

| <u>Subject</u>                         | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Generator-Regulator, 100 Amp Generator |                                 |
| Installation .....                     | 0231 00-3                       |
| Removal .....                          | 0231 00-1                       |
| Repair or Replacement .....            | 0231 00-2                       |
| Installation .....                     | 0239 00-2                       |
| Removal .....                          | 0239 00-1                       |
| Clamps, Tent                           |                                 |
| Installation .....                     | 0504 00-2                       |
| Removal .....                          | 0504 00-1                       |
| Collector Can, Crankcase Breather      |                                 |
| Installation .....                     | 0127 00-3                       |
| Removal .....                          | 0127 00-2                       |
| Combat Filler Cover and Lock           |                                 |
| Installation .....                     | 0136 00-2                       |
| Removal .....                          | 0136 00-1                       |
| Commander's Cupola                     |                                 |
| Armor Shields                          |                                 |
| Installation .....                     | 0663 00-3                       |
| Removal .....                          | 0663 00-2                       |
| Azimuth Lock                           |                                 |
| Installation .....                     | 0453 00-2                       |
| Removal .....                          | 0453 00-1                       |
| Brake Assembly                         |                                 |
| Installation .....                     | 0452 00-2                       |
| Removal .....                          | 0452 00-1                       |
| Cushioning Pad and Handle              |                                 |
| Installation .....                     | 0450 00-2                       |
| Removal .....                          | 0450 00-1                       |
| Interior Latch                         |                                 |
| Adjustment .....                       | 0454 00-2                       |
| Installation .....                     | 0454 00-2                       |
| Removal .....                          | 0454 00-1                       |
| Machine Gun Mount                      |                                 |
| Assembly .....                         | 0457 00-3                       |
| Clean, Inspect, and Repair .....       | 0457 00-2                       |
| Disassembly .....                      | 0457 00-2                       |
| Installation .....                     | 0457 00-4                       |
| Removal .....                          | 0457 00-1                       |
| Commander's Cupola Cover               |                                 |
| Installation .....                     | 0455 00-3                       |
| Removal .....                          | 0455 00-2                       |
| Commander's Hatch                      |                                 |
| Cover                                  |                                 |
| Installation .....                     | 0461 00-2                       |
| Removal .....                          | 0461 00-1                       |

INDEX, cont'd

| <u>Subject</u>                                     | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Cushioning Pad and Handle                          |                                 |
| Clean, Inspect, and Repair .....                   | 0459 00-1                       |
| Installation .....                                 | 0459 00-2                       |
| Removal .....                                      | 0459 00-1                       |
| Hook and Bumper                                    |                                 |
| Installation .....                                 | 0462 00-4                       |
| Removal .....                                      | 0462 00-2                       |
| Interior Latch                                     |                                 |
| Adjustment .....                                   | 0460 00-3                       |
| Installation .....                                 | 0460 00-2                       |
| Removal .....                                      | 0460 00-1                       |
| Vision Block Locks and Seals                       |                                 |
| Installation .....                                 | 0451 00-3                       |
| Removal .....                                      | 0451 00-1                       |
| Commander's Jump Seat                              |                                 |
| Installation .....                                 | 0490 00-4                       |
| Removal .....                                      | 0490 00-2                       |
| Commander's Platform                               |                                 |
| All Except M577A2 and M1068                        |                                 |
| Assembly .....                                     | 0491 00-3                       |
| Clean, Inspect, and Repair .....                   | 0491 00-3                       |
| Disassembly .....                                  | 0491 00-2                       |
| Installation .....                                 | 0491 00-5                       |
| Removal .....                                      | 0491 00-1                       |
| M577A2 and M1068                                   |                                 |
| Assembly .....                                     | 0492 00-4                       |
| Disassembly .....                                  | 0492 00-3                       |
| Inspection-Acceptance and Rejection Criteria ..... | 0492 00-3                       |
| Installation .....                                 | 0492 00-5                       |
| Removal .....                                      | 0492 00-2                       |
| Commander's Seat                                   |                                 |
| M1068 Only   |                                 |
| Assembly .....                                     | 0486 00-4                       |
| Disassembly .....                                  | 0486 00-2                       |
| Installation .....                                 | 0486 00-6                       |
| Removal .....                                      | 0486 00-1                       |
| M113A2, M1059, and M1064                           |                                 |
| Assembly .....                                     | 0487 00-5                       |
| Clean, Inspect, and Repair .....                   | 0487 00-4                       |
| Disassembly .....                                  | 0487 00-1                       |
| M901A1 Only  |                                 |
| Installation .....                                 | 0494 00-2                       |
| Removal .....                                      | 0494 00-1                       |
| Commander's Seat and Post                          |                                 |
| All Except M1064                                   |                                 |
| Installation .....                                 | 0484 00-3                       |
| Removal .....                                      | 0484 00-1                       |
| M1064 Only   |                                 |
| Installation .....                                 | 0485 00-2                       |
| Removal .....                                      | 0485 00-1                       |

INDEX, cont'd

| <u>Subject</u>   | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Communication Equipment  |                                 |
| Antenna Guard  |                                 |
| Installation .....   | 0761 00-2                       |
| Removal .....  | 0761 00-1                       |
| C-2298/VRC Intercom Station Bracket                                    |                                 |
| Installation .....   | 0760 00-2                       |
| Removal .....  | 0760 00-1                       |
| MX-777B/GRC or MX-777A/GRC Transient Suppressor Mounts and Ground Lead |                                 |
| Installation .....   | 0762 00-2                       |
| Removal .....  | 0762 00-1                       |
| Compartment Blower   |                                 |
| Inspection-Acceptance and Rejection Criteria .....                     | 0335 00-2                       |
| Installation .....   | 0335 00-2                       |
| Removal .....  | 0335 00-1                       |
| Control Box  |                                 |
| Coolant Heater   |                                 |
| Inspection-Acceptance and Rejection Criteria .....                     | 0648 00-2                       |
| Installation .....   | 0648 00-2                       |
| Removal .....  | 0648 00-1                       |
| Personnel Heater   |                                 |
| Assembly .....   | 0614 00-5                       |
| Disassembly .....  | 0614 00-1                       |
| Installation .....   | 0613 00-2                       |
| Removal .....  | 0613 00-1                       |
| Repair or Replacement .....  | 0614 00-4                       |
| Control Valve and Fittings   |                                 |
| Ramp   |                                 |
| Installation .....   | 0589 00-4                       |
| Removal .....  | 0589 00-2                       |
| Coolant Flow Diagram .....   | 0192 00-1                       |
| Coolant Heater   |                                 |
| Bulkhead to Heater Fuel Inlet Hose                                     |                                 |
| Installation .....   | 0644 00-3                       |
| Removal .....  | 0644 00-2                       |
| Control Box  |                                 |
| Inspection-Acceptance and Rejection Criteria .....                     | 0648 00-2                       |
| Installation .....   | 0648 00-2                       |
| Removal .....  | 0648 00-1                       |
| Exhaust Elbow and Pipes  |                                 |
| Installation .....   | 0647 00-3                       |
| Removal .....  | 0647 00-2                       |
| Flame Detector Switch  |                                 |
| Adjust .....   | 0637 00-4                       |
| Assembly .....   | 0637 00-3                       |
| Clean, Inspect, and Repair .....                                       | 0637 00-2                       |
| Disassembly .....  | 0637 00-2                       |
| Inspection-Acceptance and Rejection Criteria .....                     | 0636 00-1                       |
| Installation .....   | 0636 00-2                       |
| Removal .....  | 0636 00-1                       |

**INDEX, cont'd**

| <u>Subject</u>               | <u>WP Sequence No.-Page No.</u> |
|------------------------------|---------------------------------|
| Fuel Inlet Hose              |                                 |
| Installation .....           | 0645 00-3                       |
| Removal .....                | 0645 00-2                       |
| Fuel Pump                    |                                 |
| M113A2, M901A1, and M1059    |                                 |
| Installation .....           | 0640 00-2                       |
| Removal .....                | 0640 00-1                       |
| M577A2 and M1068             |                                 |
| Installation .....           | 0641 00-2                       |
| Removal .....                | 0641 00-1                       |
| Fuel Pump to Bulkhead Hose   |                                 |
| M113A2, M1059, and M901A1    |                                 |
| Installation .....           | 0642 00-2                       |
| Removal .....                | 0642 00-1                       |
| M577A2 and M1068             |                                 |
| Installation .....           | 0643 00-2                       |
| Removal .....                | 0643 00-1                       |
| Igniter                      |                                 |
| Inspection .....             | 0638 00-1                       |
| Installation .....           | 0638 00-2                       |
| Removal .....                | 0638 00-1                       |
| Pump                         |                                 |
| Installation .....           | 0652 00-2                       |
| Removal .....                | 0652 00-1                       |
| Wiring Harness               |                                 |
| Inspection and Repair .....  | 0649 00-2                       |
| Installation .....           | 0649 00-2                       |
| Removal .....                | 0649 00-1                       |
| Coolant Heater and Pump Unit |                                 |
| Inspection and Repair .....  | 0650 00-5                       |
| Installation .....           | 0650 00-5                       |
| Removal .....                | 0650 00-1                       |
| Coolant Heater, Replace      |                                 |
| Inspection and Repair .....  | 0651 00-2                       |
| Installation .....           | 0651 00-3                       |
| Removal .....                | 0651 00-1                       |
| Coolant System               |                                 |
| Servicing .....              | 0193 00-1                       |
| Cooling Fan Assembly         |                                 |
| Installation .....           | 0216 00-3                       |
| Removal .....                | 0216 00-1                       |
| Cooling System               |                                 |
| Servicing .....              | 0194 00-1                       |

INDEX, cont'd

| <u>Subject</u>                     | <u>WP Sequence No.-Page No.</u> |
|------------------------------------|---------------------------------|
| Cover                              |                                 |
| Air Cleaner                        |                                 |
| Installation .....                 | 0184 00-2                       |
| Removal .....                      | 0184 00-2                       |
| Antenna                            |                                 |
| Installation .....                 | 0528 00-2                       |
| Removal .....                      | 0528 00-1                       |
| Commander's Cupola                 |                                 |
| Installation .....                 | 0455 00-3                       |
| Removal .....                      | 0455 00-2                       |
| Commander's Hatch                  |                                 |
| Installation .....                 | 0461 00-2                       |
| Removal .....                      | 0461 00-1                       |
| Driver's Hatch                     |                                 |
| Installation .....                 | 0447 00-3                       |
| Removal .....                      | 0447 00-1                       |
| Hull Access, Driver's Compartment  |                                 |
| Clean, Inspect, and Repair .....   | 0439 00-2                       |
| Installation .....                 | 0439 00-2                       |
| Removal .....                      | 0439 00-1                       |
| Mortar Hatch                       |                                 |
| Installation .....                 | 0468 00-3                       |
| Removal .....                      | 0468 00-1                       |
| Track                              |                                 |
| Installation .....                 | 0365 00-2                       |
| Removal .....                      | 0365 00-1                       |
| Crankcase Breather                 |                                 |
| Collector Can                      |                                 |
| Installation .....                 | 0127 00-3                       |
| Removal .....                      | 0127 00-2                       |
| Hose                               |                                 |
| Installation .....                 | 0127 00-3                       |
| Removal .....                      | 0127 00-2                       |
| Crew Seat                          |                                 |
| Installation .....                 | 0498 00-2                       |
| Removal .....                      | 0498 00-1                       |
| Cross-Shaft Links, Steering levers |                                 |
| Clean, Inspect, and Replace .....  | 0391 00-2                       |
| Installation .....                 | 0391 00-2                       |
| Removal .....                      | 0391 00-1                       |
| Cross-Shafts and Bearings          |                                 |
| Differential                       |                                 |
| Clean, Inspect, and Repair .....   | 0392 00-3                       |
| Installation .....                 | 0392 00-4                       |
| Removal .....                      | 0392 00-2                       |
| Steering Levers                    |                                 |
| Installation .....                 | 0390 00-4                       |
| Removal .....                      | 0390 00-1                       |

**INDEX, cont'd**

| <u>Subject</u>  | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Cushion Base, Low-Stow                                |                                 |
| Installation . . . . .                                | 0475 00-2                       |
| Removal . . . . .                                     | 0475 00-1                       |
| Cushioning Pad and Handle, Commander's Cupola         |                                 |
| Installation . . . . .                                | 0450 00-2                       |
| Removal . . . . .                                     | 0450 00-1                       |
| Cushioning Pad, Driver's Hatch                        |                                 |
| Installation . . . . .                                | 0443 00-2                       |
| Removal . . . . .                                     | 0443 00-1                       |
| Cushions, Personnel Seat                              |                                 |
| M1064 Only  |                                 |
| Installation . . . . .                                | 0497 00-3                       |
| Removal . . . . .                                     | 0497 00-2                       |
| M577A2 Only   |                                 |
| Installation . . . . .                                | 0496 00-3                       |
| Removal . . . . .                                     | 0496 00-2                       |
| Cylinder, Ramp  |                                 |
| Cleaning . . . . .                                    | 0593 00-2                       |
| Installation . . . . .                                | 0593 00-2                       |
| Removal . . . . .                                     | 0593 00-1                       |
| <br><b>D</b><br>                                      |                                 |
| Data Plates, Stencils, Markers, and Decals            |                                 |
| Cleaning . . . . .                                    | 0511 00-2                       |
| Inspection of Installed Items                         |                                 |
| All Models Except M901A1 . . . . .                    | 0518 00-1                       |
| M1059 and M113A2 . . . . .                            | 0521 00-1                       |
| M1064 Only . . . . .                                  | 0520 00-1                       |
| M577A2 and M1068 . . . . .                            | 0522 00-1                       |
| M901A1 Only . . . . .                                 | 0519 00-2                       |
| Installation . . . . .                                | 0511 00-3                       |
| Removal . . . . .                                     | 0511 00-2                       |
| Deaeration Elbow to Radiator Inlet Elbow Coolant Tube |                                 |
| Installation . . . . .                                | 0198 00-2                       |
| Removal . . . . .                                     | 0198 00-1                       |
| Deaeration Hoses, Auxiliary Tank                      |                                 |
| Installation . . . . .                                | 0209 00-2                       |
| Removal . . . . .                                     | 0209 00-1                       |

INDEX, cont'd

| <u>Subject</u>  | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Diagram   |                                 |
| Coolant Flow .....  | 0192 00-1                       |
| Differential Oil Flow .....                               | 0353 00-1                       |
| Engine Fuel System .....                                  | 0162 00-1                       |
| Engine Oil Flow .....                                     | 0121 00-1                       |
| Fuel Flow   |                                 |
| M113A2, M1059, and M901A1 .....                           | 0132 00-1                       |
| M577A2 and M1068 .....                                    | 0133 00-1                       |
| M981 and M1064 .....                                      | 0134 00-1                       |
| Heater Coolant Flow .....                                 | 0635 00-1                       |
| Hydraulic Fluid Flow .....                                | 0578 00-1                       |
| Power Train/Steering/Brakes/Gear Selection/Throttle ..... | 0061 00-1                       |
| Differential  |                                 |
| Brake   |                                 |
| Adjustment .....  | 0362 00-1                       |
| Cross-Shaft Links   |                                 |
| Clean, Inspect, and Repair .....                          | 0393 00-2                       |
| Installation .....  | 0393 00-2                       |
| Removal .....   | 0393 00-1                       |
| Cross-Shafts and Bearings                                 |                                 |
| Clean, Inspect, and Repair .....                          | 0392 00-3                       |
| Installation .....  | 0392 00-4                       |
| Removal .....   | 0392 00-2                       |
| Gasket  |                                 |
| Installation .....  | 0364 00-3                       |
| Removal .....   | 0364 00-1                       |
| Gearbox to Differential Hose and Fittings                 |                                 |
| Inspection-Acceptance and Rejection Criteria .....        | 0359 00-2                       |
| Installation .....  | 0359 00-2                       |
| Removal .....   | 0359 00-1                       |
| High Oil Temperature Switch                               |                                 |
| Installation .....  | 0318 00-2                       |
| Removal .....   | 0318 00-1                       |
| Mounts  |                                 |
| Installation .....  | 0363 00-4                       |
| Removal .....   | 0363 00-1                       |
| Oil Cooler Hose and Fittings                              |                                 |
| Inspection-Acceptance and Rejection Criteria .....        | 0360 00-2                       |
| Installation .....  | 0360 00-2                       |
| Removal .....   | 0360 00-1                       |
| Oil Filter and Fittings                                   |                                 |
| Inspection-Acceptance and Rejection Criteria .....        | 0355 00-2                       |
| Installation .....  | 0355 00-2                       |
| Removal .....   | 0355 00-1                       |
| Oil Filter Element  |                                 |
| Installation .....  | 0356 00-2                       |
| Removal .....   | 0356 00-1                       |
| Oil Filter Pump Hose and Fittings                         |                                 |
| Inspection-Acceptance and Rejection Criteria .....        | 0361 00-2                       |
| Installation .....  | 0361 00-2                       |
| Removal .....   | 0361 00-1                       |

**INDEX, cont'd**

| <u>Subject</u>   | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Oil Level Dipstick and Breather                                  |                                 |
| Inspection-Acceptance and Rejection Criteria . . . . .           | 0357 00-2                       |
| Installation . . . . .   | 0357 00-2                       |
| Removal . . . . .  | 0357 00-1                       |
| Oil Pump   |                                 |
| Inspection-Acceptance and Rejection Criteria . . . . .           | 0354 00-3                       |
| Installation . . . . .   | 0354 00-4                       |
| Removal . . . . .  | 0354 00-1                       |
| Oil Pump, Differential Hose and Fittings                         |                                 |
| Inspection-Acceptance and Rejection Criteria . . . . .           | 0358 00-2                       |
| Installation . . . . .   | 0358 00-2                       |
| Removal . . . . .  | 0358 00-1                       |
| Steering Brake Levers  |                                 |
| Clean, Inspect, and Repair . . . . .                             | 0394 00-2                       |
| Installation . . . . .   | 0394 00-2                       |
| Removal . . . . .  | 0394 00-1                       |
| Differential Shaft   |                                 |
| Transmission   |                                 |
| Clean, Inspect, Repair . . . . .                                 | 0347 00-2                       |
| Installation . . . . .   | 0347 00-2                       |
| Removal . . . . .  | 0347 00-1                       |
| Differential Switch Lead   |                                 |
| Installation . . . . .   | 0319 00-2                       |
| Removal . . . . .  | 0319 00-1                       |
| Dipstick, Final Drive  |                                 |
| Inspect and Repair . . . . .                                     | 0352 00-2                       |
| Installation . . . . .   | 0352 00-2                       |
| Removal . . . . .  | 0352 00-1                       |
| Distribution Box   |                                 |
| Assembly for 100 Amp Generator System (M113A2, M1064, and M1059) |                                 |
| Installation . . . . .   | 0269 00-3                       |
| Removal . . . . .  | 0269 00-1                       |
| Assembly for 100 Amp Generator System (M577A2 Only)              |                                 |
| Installation . . . . .   | 0267 00-3                       |
| Removal . . . . .  | 0267 00-1                       |
| Assembly for 100 Amp Generator System (M901A1 Only)              |                                 |
| Installation . . . . .   | 0268 00-3                       |
| Removal . . . . .  | 0268 00-1                       |
| Assembly for 200 Amp Generator System (M113A2 and M1064)         |                                 |
| Installation . . . . .   | 0270 00-3                       |
| Removal . . . . .  | 0270 00-1                       |
| Assembly for 200 Amp Generator System (M577A2 and M1068)         |                                 |
| Installation . . . . .   | 0266 00-3                       |
| Removal . . . . .  | 0266 00-1                       |
| Assembly for 200 Amp Generator System (M901A1 Only)              |                                 |
| Installation . . . . .   | 0271 00-3                       |
| Removal . . . . .  | 0271 00-1                       |



INDEX, cont'd

| <u>Subject</u>                    | <u>WP Sequence No.-Page No.</u> |
|-----------------------------------|---------------------------------|
| Dome Blackout Light Bypass Switch |                                 |
| Installation .....                | 0281 00-2                       |
| Removal .....                     | 0281 00-1                       |
| Dome Light                        |                                 |
| All Except M577A2 and M1068       |                                 |
| Assembly .....                    | 0274 00-3                       |
| Clean, Inspect, and Repair .....  | 0274 00-2                       |
| Disassembly .....                 | 0274 00-1                       |
| Installation .....                | 0273 00-2                       |
| Removal .....                     | 0273 00-1                       |
| M577A2 and M1068                  |                                 |
| Assembly .....                    | 0276 00-3                       |
| Clean, Inspect, and Repair .....  | 0276 00-2                       |
| Disassembly .....                 | 0276 00-1                       |
| Installation .....                | 0275 00-2                       |
| Removal .....                     | 0275 00-1                       |
| Dome Light Circuit Breaker        |                                 |
| Installation .....                | 0280 00-2                       |
| Removal .....                     | 0280 00-1                       |
| Door                              |                                 |
| Cargo Hatch                       |                                 |
| Installation .....                | 0464 00-4                       |
| Removal .....                     | 0464 00-2                       |
| Power Plant                       |                                 |
| Adjustment .....                  | 0428 00-4                       |
| Assembly .....                    | 0428 00-3                       |
| Disassembly .....                 | 0428 00-2                       |
| Installation .....                | 0427 00-3                       |
| Removal .....                     | 0427 00-1                       |
| Drain Cap and Sight Gauge         |                                 |
| Installation .....                | 0215 00-2                       |
| Removal .....                     | 0215 00-1                       |
| Drain Fuel Tank                   |                                 |
| M113A2, M901A1, and M1059 .....   | 0135 00-1                       |
| Drain Plug                        |                                 |
| Final Drive                       |                                 |
| Installation .....                | 0435 00-2                       |
| Removal .....                     | 0435 00-1                       |
| Fuel Tank                         |                                 |
| Installation .....                | 0145 00-2                       |
| Removal .....                     | 0145 00-1                       |
| Ramp                              |                                 |
| Installation .....                | 0574 00-2                       |
| Removal .....                     | 0574 00-1                       |

**INDEX, cont'd**

| <u>Subject</u>                                     | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| <b>Drive Belt</b>                                  |                                 |
| <b>100 Amp Generator</b>                           |                                 |
| Installation .....                                 | 0226 00-2                       |
| Removal .....                                      | 0226 00-1                       |
| Repair or Replacement .....                        | 0226 00-2                       |
| <b>200 Amp Generator</b>                           |                                 |
| Installation .....                                 | 0234 00-2                       |
| Removal .....                                      | 0234 00-1                       |
| <b>Fan</b>   |                                 |
| Adjustment .....                                   | 0211 00-2                       |
| Installation .....                                 | 0211 00-2                       |
| Removal .....                                      | 0211 00-1                       |
| <b>Driver's Compartment Hull Access Covers</b>     |                                 |
| Clean, Inspect, and Repair .....                   | 0439 00-2                       |
| Installation .....                                 | 0439 00-2                       |
| Removal .....                                      | 0439 00-1                       |
| <b>Driver's Footrest</b>                           |                                 |
| Installation .....                                 | 0482 00-2                       |
| Removal .....                                      | 0482 00-1                       |
| <b>Driver's Hatch</b>                              |                                 |
| <b>Cover</b>                                       |                                 |
| Installation .....                                 | 0447 00-3                       |
| Removal .....                                      | 0447 00-1                       |
| <b>Cushioning Pad</b>                              |                                 |
| Installation .....                                 | 0443 00-2                       |
| Removal .....                                      | 0443 00-1                       |
| <b>Interior Latch</b>                              |                                 |
| Adjustment .....                                   | 0445 00-4                       |
| Installation .....                                 | 0445 00-3                       |
| Removal .....                                      | 0445 00-2                       |
| <b>Interior Lock</b>                               |                                 |
| Adjustment .....                                   | 0445 00-4                       |
| Installation .....                                 | 0445 00-3                       |
| Removal .....                                      | 0445 00-2                       |
| <b>Latch and Bumper</b>                            |                                 |
| Clean, Inspect, and Repair .....                   | 0448 00-3                       |
| Installation .....                                 | 0448 00-4                       |
| Removal .....                                      | 0448 00-1                       |
| <b>M901A1 Only</b>                                 |                                 |
| Assembly .....                                     | 0449 00-11                      |
| Cleaning .....                                     | 0449 00-9                       |
| Disassembly .....                                  | 0449 00-5                       |
| Inspection-Acceptance and Rejection Criteria ..... | 0449 00-9                       |
| Installation .....                                 | 0449 00-14                      |
| Removal .....                                      | 0449 00-1                       |
| Repair or Replacement .....                        | 0449 00-9                       |

INDEX, cont'd

| <u>Subject</u>                                       | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Periscope Guard and Quick Release Assembly           |                                 |
| Assembly .....                                       | 0446 00-6                       |
| Clean, Inspect, and Repair .....                     | 0446 00-6                       |
| Disassembly .....                                    | 0446 00-4                       |
| Installation .....                                   | 0446 00-9                       |
| Removal .....  | 0446 00-2                       |
| Vision Block Locks and Seals                         |                                 |
| Clean .....  | 0444 00-2                       |
| Installation .....                                   | 0444 00-3                       |
| Removal .....  | 0444 00-1                       |
| Driver's Seat  |                                 |
| Assembly .....                                       | 0479 00-3                       |
| Disassembly .....                                    | 0479 00-2                       |
| Driver's Seat Assembly                               |                                 |
| Installation .....                                   | 0478 00-2                       |
| Removal .....  | 0478 00-1                       |
| Driver's Seat Mount                                  |                                 |
| Assembly .....                                       | 0481 00-3                       |
| Clean, Inspect, and Repair .....                     | 0481 00-2                       |
| Disassembly .....                                    | 0481 00-2                       |
| Installation .....                                   | 0480 00-2                       |
| Removal .....  | 0480 00-1                       |
| Driver's Seat Post Assembly                          |                                 |
| Assembly .....                                       | 0483 00-5                       |
| Clean, Inspect, and Repair .....                     | 0483 00-5                       |
| Disassembly .....                                    | 0483 00-3                       |
| Installation .....                                   | 0483 00-8                       |
| Removal .....  | 0483 00-2                       |
| Driver's Windshield and Brackets                     |                                 |
| Installation .....                                   | 0624 00-2                       |
| Removal .....  | 0624 00-1                       |
| Duct, Personnel Heater                               |                                 |
| Assembly .....                                       | 0618 00-2                       |
| Disassembly .....                                    | 0618 00-1                       |
| <b>E</b>   |                                 |
| Electrical/Communication Equipment                   |                                 |
| AC and DC Power Extension Boxes A6 and A9 and Mounts |                                 |
| Installation .....                                   | 0735 00-2                       |
| Removal .....  | 0735 00-1                       |
| AC Cable Assembly (W252)                             |                                 |
| Installation .....                                   | 0755 00-3                       |
| Removal .....  | 0755 00-2                       |

## INDEX, cont'd

| <u>Subject</u>                                 | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| AC Light Cable (W11)                           |                                 |
| Installation .....                             | 0747 00-2                       |
| Removal .....                                  | 0747 00-1                       |
| AC Power Extension Box A19                     |                                 |
| Installation .....                             | 0720 00-2                       |
| Removal .....                                  | 0720 00-1                       |
| AC Power Extension Box A7                      |                                 |
| Installation .....                             | 0719 00-2                       |
| Removal .....                                  | 0719 00-1                       |
| AC Power Extension Cable (W7)                  |                                 |
| Installation .....                             | 0743 00-2                       |
| Removal .....                                  | 0743 00-1                       |
| AC Power Extension Cable (W8)                  |                                 |
| Installation .....                             | 0744 00-2                       |
| Removal .....                                  | 0744 00-1                       |
| APIU Rack Mount and Bracket                    |                                 |
| Installation .....                             | 0725 00-2                       |
| Removal .....                                  | 0725 00-1                       |
| Cable Assembly (W4/W6)                         |                                 |
| Assembly .....                                 | 0759 00-2                       |
| Disassembly .....                              | 0759 00-1                       |
| Cable W35, W28, and Cable Adapter              |                                 |
| Installation .....                             | 0750 00-2                       |
| Removal .....                                  | 0750 00-1                       |
| Cable W38, W29, and Cable Adapter              |                                 |
| Installation .....                             | 0751 00-2                       |
| Removal .....                                  | 0751 00-1                       |
| Cascade Remote Harness                         |                                 |
| Installation .....                             | 0745 00-2                       |
| Removal .....                                  | 0745 00-1                       |
| Curbside Data Panel Assembly A12               |                                 |
| Installation .....                             | 0716 00-2                       |
| Removal .....                                  | 0716 00-1                       |
| DC Battery Cable (W4)                          |                                 |
| Installation .....                             | 0740 00-3                       |
| Removal .....                                  | 0740 00-2                       |
| DC Power Extension Cable (W10)                 |                                 |
| Installation .....                             | 0746 00-2                       |
| Removal .....                                  | 0746 00-1                       |
| External Communication Box A11                 |                                 |
| Installation .....                             | 0723 00-4                       |
| Removal .....                                  | 0723 00-1                       |
| External Communication Box A11 Lid and Latches |                                 |
| Installation .....                             | 0717 00-2                       |
| Removal .....                                  | 0717 00-1                       |
| Fluorescent Light Assemblies                   |                                 |
| Installation .....                             | 0738 00-2                       |
| Removal .....                                  | 0738 00-1                       |
| Ground Strap (W12)                             |                                 |
| Installation .....                             | 0748 00-2                       |
| Removal .....                                  | 0748 00-1                       |

INDEX, cont'd

| <u>Subject</u>  | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Harness (W32)   |                                 |
| Installation .....  | 0749 00-3                       |
| Removal .....   | 0749 00-1                       |
| Inverter AC Cable (W5)  |                                 |
| Installation .....  | 0741 00-3                       |
| Removal .....   | 0741 00-2                       |
| Inverter DC Cable (W6)  |                                 |
| Installation .....  | 0742 00-2                       |
| Removal .....   | 0742 00-1                       |
| Inverter Housing A2 Terminal Blocks TB1 and TB2               |                                 |
| Installation .....  | 0728 00-4                       |
| Removal .....   | 0728 00-2                       |
| LAN A or B (W103/W104) Cables                                 |                                 |
| Installation .....  | 0756 00-3                       |
| Removal .....   | 0756 00-1                       |
| LAN Ground Box Assembly A15                                   |                                 |
| Assembly .....  | 0722 00-2                       |
| Disassembly .....   | 0722 00-1                       |
| Installation .....  | 0721 00-2                       |
| Removal .....   | 0721 00-1                       |
| Power Control Enclosure AC and DC Meters and Light Indicators |                                 |
| Installation .....  | 0729 00-3                       |
| Removal .....   | 0729 00-1                       |
| Power Control Enclosure Assembly A1                           |                                 |
| Installation .....  | 0731 00-2                       |
| Removal .....   | 0731 00-1                       |
| Power Control Enclosure Circuit 44A Lead                      |                                 |
| Installation .....  | 0732 00-2                       |
| Removal .....   | 0732 00-1                       |
| Power Control Enclosure Faceplate and Bracket                 |                                 |
| Assembly .....  | 0730 00-5                       |
| Disassembly .....   | 0730 00-1                       |
| Power Distribution Box A3                                     |                                 |
| Assembly .....  | 0736 00-3                       |
| Disassembly .....   | 0736 00-2                       |
| Installation .....  | 0736 00-4                       |
| Removal .....   | 0736 00-1                       |
| Power Distribution Cable (W3)                                 |                                 |
| Installation .....  | 0739 00-2                       |
| Removal .....   | 0739 00-1                       |
| Power Entry Box Assembly A4                                   |                                 |
| Installation .....  | 0737 00-2                       |
| Removal .....   | 0737 00-1                       |
| Power Extension Box A18 and Bracket                           |                                 |
| Installation .....  | 0726 00-2                       |
| Removal .....   | 0726 00-1                       |
| Power Supply Storage Box Assembly                             |                                 |
| Assembly .....  | 0733 00-3                       |
| Disassembly .....   | 0733 00-2                       |
| Installation .....  | 0733 00-4                       |
| Removal .....   | 0733 00-1                       |

**INDEX, cont'd**

| <u>Subject</u>                               | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Right Equipment Rack Brackets and Mounts     |                                 |
| Installation .....                           | 0718 00-2                       |
| Removal .....                                | 0718 00-1                       |
| Roadside Data Panel Assembly A13 and Bracket |                                 |
| Installation .....                           | 0727 00-2                       |
| Removal .....                                | 0727 00-1                       |
| Signal Patch Panel Box A10                   |                                 |
| Installation .....                           | 0724 00-2                       |
| Removal .....                                | 0724 00-1                       |
| Single Point LAN Cable (W40)                 |                                 |
| Installation .....                           | 0752 00-2                       |
| Removal .....                                | 0752 00-1                       |
| Tent Interface Panel Box Assembly A5         |                                 |
| Installation .....                           | 0734 00-2                       |
| Removal .....                                | 0734 00-1                       |
| W124 Cable                                   |                                 |
| Installation .....                           | 0757 00-3                       |
| Removal .....                                | 0757 00-1                       |
| W126 Cable                                   |                                 |
| Installation .....                           | 0758 00-2                       |
| Removal .....                                | 0758 00-1                       |
| W42, W43, and W251 Cables                    |                                 |
| Installation .....                           | 0753 00-2                       |
| Removal .....                                | 0753 00-1                       |
| W45 Cable                                    |                                 |
| Installation .....                           | 0754 00-2                       |
| Removal .....                                | 0754 00-1                       |
| Electronic Equipment Heater                  |                                 |
| Air Intake Hose and Exhaust Pipe             |                                 |
| Installation .....                           | 0634 00-2                       |
| Removal .....                                | 0634 00-1                       |
| Battery-to-Control Box Lead                  |                                 |
| Installation .....                           | 0631 00-2                       |
| Removal .....                                | 0631 00-1                       |
| Bulkhead to Heater Hoses                     |                                 |
| Installation .....                           | 0629 00-4                       |
| Removal .....                                | 0629 00-2                       |
| Control Box-To-Fuel Pump Lead                |                                 |
| Installation .....                           | 0632 00-3                       |
| Removal .....                                | 0632 00-2                       |
| Fuel Pump                                    |                                 |
| Installation .....                           | 0626 00-3                       |
| Removal .....                                | 0626 00-2                       |
| Fuel Pump to Bulkhead Connection Hose        |                                 |
| Installation .....                           | 0628 00-3                       |
| Removal .....                                | 0628 00-1                       |
| Heater Component Maintenance .....           | 0625 00-1                       |
| Heater Control Box                           |                                 |
| Installation .....                           | 0630 00-2                       |
| Removal .....                                | 0630 00-1                       |

INDEX, cont'd

| <u>Subject</u>   | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Shutoff Valve to Fuel Pump Hose                            |                                 |
| Installation .....   | 0627 00-3                       |
| Removal .....  | 0627 00-1                       |
| Electronic Equipment Heater Assembly and Mounting Brackets |                                 |
| Installation .....   | 0633 00-3                       |
| Removal .....  | 0633 00-2                       |
| Element, Air Cleaner                                       |                                 |
| Servicing .....  | 0182 00-1                       |
| Enclosure, Generator Set                                   |                                 |
| Installation .....   | 0472 00-2                       |
| Removal .....  | 0472 00-1                       |
| Engine Air Inlet Elbow to Air Box Heater Hoses             |                                 |
| Installation .....   | 0168 00-3                       |
| Removal .....  | 0168 00-1                       |
| Engine Coolant Heater System                               |                                 |
| Drain .....  | 0639 00-2                       |
| Fill .....   | 0639 00-3                       |
| Engine Coolant Heater, Hoses and Fittings                  |                                 |
| Installation .....   | 0646 00-7                       |
| Removal .....  | 0646 00-1                       |
| Engine Coolant Pump  |                                 |
| Idler Pulley and Belts                                     |                                 |
| Installation .....   | 0196 00-2                       |
| Removal .....  | 0196 00-1                       |
| Installation .....   | 0197 00-2                       |
| Removal .....  | 0197 00-1                       |
| Engine Coolant Temperature Switch                          |                                 |
| Installation .....   | 0317 00-2                       |
| Removal .....  | 0317 00-1                       |
| Engine Fuel Pump   |                                 |
| Installation .....   | 0171 00-3                       |
| Removal .....  | 0171 00-1                       |
| Engine Fuel Pump to Secondary Fuel Filter Hose             |                                 |
| Installation .....   | 0165 00-3                       |
| Removal .....  | 0165 00-1                       |
| Engine Fuel System Diagram .....                           | 0162 00-1                       |
| Engine Low Oil Pressure Switch                             |                                 |
| Installation .....   | 0316 00-2                       |
| Removal .....  | 0316 00-1                       |

**INDEX, cont'd**

| <u>Subject</u>                                     | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Engine Mount, Front                                |                                 |
| Installation .....                                 | 0122 00-2                       |
| Removal .....                                      | 0122 00-1                       |
| Engine Oil Filter Assembly                         |                                 |
| Installation .....                                 | 0124 00-2                       |
| Removal .....                                      | 0124 00-1                       |
| Engine Oil Filter Bracket, Hoses, and Fittings     |                                 |
| Installation .....                                 | 0125 00-3                       |
| Removal .....                                      | 0125 00-2                       |
| Engine Oil Filter Element and Parts                |                                 |
| Installation .....                                 | 0123 00-3                       |
| Removal .....                                      | 0123 00-1                       |
| Engine Oil Flow Diagram .....                      | 0121 00-1                       |
| Engine Power Disconnect                            |                                 |
| Adjustment .....                                   | 0408 00-3                       |
| Installation .....                                 | 0408 00-2                       |
| Removal .....                                      | 0408 00-1                       |
| Engine Start Switch                                |                                 |
| Installation .....                                 | 0243 00-2                       |
| Removal .....                                      | 0243 00-1                       |
| Equipment Description                              |                                 |
| Capabilities and Features .....                    | 0002 00-1                       |
| Differences Between Carriers .....                 | 0002 00-5                       |
| Equipment Data .....                               | 0002 00-5                       |
| Location and Description of Major Components ..... | 0002 00-1                       |
| Equipment Stowage Shelf                            |                                 |
| Installation .....                                 | 0503 00-2                       |
| Removal .....                                      | 0503 00-1                       |
| Exhaust Elbow and Pipes, Coolant Heater            |                                 |
| Installation .....                                 | 0647 00-3                       |
| Removal .....                                      | 0647 00-2                       |
| Exhaust Pipes                                      |                                 |
| Installation .....                                 | 0189 00-2                       |
| Removal .....                                      | 0189 00-1                       |
| Exhaust Pipes, Heater                              |                                 |
| All Except M1064                                   |                                 |
| Installation .....                                 | 0622 00-3                       |
| Removal .....                                      | 0622 00-2                       |



INDEX, cont'd

| <u>Subject</u>                                       | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| M1064 Only   |                                 |
| Installation .....                                   | 0623 00-2                       |
| Removal .....  | 0623 00-1                       |
| Expendable/Durable Supplies and Materials List ..... | 0782 00-1                       |
| Eye, Towing Hook                                     |                                 |
| Installation .....                                   | 0418 00-2                       |
| Removal .....  | 0418 00-1                       |
| <b>F</b>   |                                 |
| Fabricated Tools .....                               | 0781 00-1                       |
| Fan Drive  |                                 |
| Adjustable Idler and Pulley                          |                                 |
| Installation .....                                   | 0213 00-2                       |
| Removal .....  | 0213 00-1                       |
| Belts  |                                 |
| Adjustment .....                                     | 0211 00-2                       |
| Installation .....                                   | 0211 00-2                       |
| Removal .....  | 0211 00-1                       |
| Fixed Idler and Pulley                               |                                 |
| Installation .....                                   | 0212 00-2                       |
| Removal .....  | 0212 00-1                       |
| Pulley and Access Cover                              |                                 |
| Installation .....                                   | 0214 00-2                       |
| Removal .....  | 0214 00-1                       |
| Filler Cap   |                                 |
| Fuel Tank  |                                 |
| Installation .....                                   | 0137 00-2                       |
| Removal .....  | 0137 00-1                       |
| Strainer Parts                                       |                                 |
| M577A2 and M1068                                     |                                 |
| Installation .....                                   | 0154 00-3                       |
| Removal .....  | 0154 00-2                       |
| M981 and M1064                                       |                                 |
| Installation .....                                   | 0144 00-2                       |
| Removal .....  | 0144 00-1                       |
| Filler Cover and Lock                                |                                 |
| Combat   |                                 |
| Installation .....                                   | 0136 00-2, 0210 00-2            |
| Removal .....  | 0136 00-1, 0210 00-1            |
| Fuel Tank  |                                 |
| Installation .....                                   | 0143 00-2                       |
| Removal .....  | 0143 00-1                       |
| Filler Flange, Fuel Tank                             |                                 |
| Installation .....                                   | 0157 00-2                       |
| Removal .....  | 0157 00-1                       |

INDEX, cont'd

| <u>Subject</u>                              | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Filler Tube                                 |                                 |
| Final Drive                                 |                                 |
| Inspect and Repair .....                    | 0352 00-2                       |
| Installation .....                          | 0352 00-2                       |
| Removal .....                               | 0352 00-1                       |
| Filter Assembly, Engine Oil                 |                                 |
| Removal .....                               | 0124 00-1, 0124 00-2            |
| Filter Element and Parts, Engine Oil        |                                 |
| Installation .....                          | 0123 00-3                       |
| Removal .....                               | 0123 00-1                       |
| Filter Screen, Fuel Cap                     |                                 |
| Cleaning .....                              | 0150 00-1                       |
| Filter Switch and Mount Bracket, M3 NBC Kit |                                 |
| Installation .....                          | 0674 00-3                       |
| Removal .....                               | 0674 00-2                       |
| Filters and Hoses, M13 NBC Kit              |                                 |
| Installation .....                          | 0671 00-8                       |
| Removal .....                               | 0671 00-2                       |
| Final Drive                                 |                                 |
| Clean, Inspect, and Repair .....            | 0350 00-3                       |
| Drain Plug                                  |                                 |
| Installation .....                          | 0435 00-2                       |
| Removal .....                               | 0435 00-1                       |
| Installation .....                          | 0350 00-3                       |
| Removal .....                               | 0350 00-1                       |
| Final Drive Pinion Oil Seal                 |                                 |
| Inspect and Repair .....                    | 0351 00-2                       |
| Installation .....                          | 0351 00-2                       |
| Removal .....                               | 0351 00-1                       |
| Final Drive Shaft                           |                                 |
| Left  |                                 |
| Installation .....                          | 0348 00-2                       |
| Removal .....                               | 0348 00-1                       |
| Right                                       |                                 |
| Installation .....                          | 0349 00-2                       |
| Removal .....                               | 0349 00-1                       |
| Fire Extinguisher System                    |                                 |
| Control Valve and External Handle           |                                 |
| Installation .....                          | 0766 00-4                       |
| Removal .....                               | 0766 00-2                       |

INDEX, cont'd

| <u>Subject</u>   | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Cylinder and Mount                                     |                                 |
| Installation . . . . .                                 | 0769 00-3                       |
| Removal . . . . .                                      | 0769 00-2                       |
| Cylinder Discharge Tubes                               |                                 |
| Installation . . . . .                                 | 0768 00-2                       |
| Removal . . . . .                                      | 0768 00-1                       |
| External Cable Tube                                    |                                 |
| Installation . . . . .                                 | 0767 00-4                       |
| Removal . . . . .                                      | 0767 00-2                       |
| External Handle Shield                                 |                                 |
| M1064 Only   |                                 |
| Clean, Inspect, and Repair . . . . .                   | 0765 00-2                       |
| Installation . . . . .                                 | 0765 00-2                       |
| Removal . . . . .                                      | 0765 00-1                       |
| M113A2, M901A1, and M1059                              |                                 |
| Installation . . . . .                                 | 0763 00-2                       |
| Removal . . . . .                                      | 0763 00-1                       |
| M577A2 and M1068                                       |                                 |
| Installation . . . . .                                 | 0764 00-2                       |
| Removal . . . . .                                      | 0764 00-1                       |
| Extinguisher and Mount                                 |                                 |
| Clean, Inspect, and Repair . . . . .                   | 0771 00-3                       |
| Installation . . . . .                                 | 0771 00-3                       |
| Removal . . . . .                                      | 0771 00-2                       |
| Portable Fire Extinguisher Mount                       |                                 |
| All Except M1068                                       |                                 |
| Installation . . . . .                                 | 0770 00-3                       |
| Removal . . . . .                                      | 0770 00-2                       |
| M1068 Only   |                                 |
| Assembly . . . . .                                     | 0772 00-4                       |
| Disassembly . . . . .                                  | 0772 00-3                       |
| Installation . . . . .                                 | 0772 00-5                       |
| Removal . . . . .                                      | 0772 00-2                       |
| Fittings   |                                 |
| Differential Gearbox to Differential Hose              |                                 |
| Inspection-Acceptance and Rejection Criteria . . . . . | 0359 00-2                       |
| Installation . . . . .                                 | 0359 00-2                       |
| Removal . . . . .                                      | 0359 00-1                       |
| Differential Oil Filter to Pump Hose                   |                                 |
| Inspection-Acceptance and Rejection Criteria . . . . . | 0361 00-2                       |
| Installation . . . . .                                 | 0361 00-2                       |
| Removal . . . . .                                      | 0361 00-1                       |
| Differential Oil Pump to Differential Hose             |                                 |
| Inspection-Acceptance and Rejection Criteria . . . . . | 0358 00-2                       |
| Installation . . . . .                                 | 0358 00-2                       |
| Removal . . . . .                                      | 0358 00-1                       |
| Differential to Oil Cooler Hose                        |                                 |
| Inspection-Acceptance and Rejection Criteria . . . . . | 0360 00-2                       |
| Installation . . . . .                                 | 0360 00-2                       |
| Removal . . . . .                                      | 0360 00-1                       |

INDEX, cont'd

| <u>Subject</u>                                     | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Fuel Tank-to-Bulkhead                              |                                 |
| Installation .....                                 | 0141 00-6                       |
| Removal .....                                      | 0141 00-1                       |
| Fuel Vent  |                                 |
| Installation .....                                 | 0160 00-4                       |
| Removal .....                                      | 0160 00-1                       |
| Fixed Idler and Pulley, Fan Drive                  |                                 |
| Installation .....                                 | 0212 00-2                       |
| Removal .....                                      | 0212 00-1                       |
| Flame Detector Switch, Coolant Heater              |                                 |
| Adjust .....                                       | 0637 00-4                       |
| Assembly .....                                     | 0637 00-3                       |
| Clean, Inspect, and Repair .....                   | 0637 00-2                       |
| Disassembly .....                                  | 0637 00-2                       |
| Inspection-Acceptance and Rejection Criteria ..... | 0636 00-1                       |
| Installation .....                                 | 0636 00-2                       |
| Removal .....                                      | 0636 00-1                       |
| Floor Plates                                       |                                 |
| M1059 Only   |                                 |
| Clean, Inspect, and Repair .....                   | 0438 00-3                       |
| Installation .....                                 | 0438 00-3                       |
| Removal .....                                      | 0438 00-2                       |
| M1064 Only   |                                 |
| Installation .....                                 | 0437 00-3                       |
| Removal .....                                      | 0437 00-2                       |
| M1068 Only   |                                 |
| Installation .....                                 | 0440 00-2                       |
| Removal .....                                      | 0440 00-1                       |
| M901A1 Only  |                                 |
| Installation .....                                 | 0441 00-4                       |
| Removal .....                                      | 0441 00-2                       |
| Rear   |                                 |
| Installation .....                                 | 0436 00-2                       |
| Removal .....                                      | 0436 00-1                       |
| Fog Oil Pump, Cable Assembly                       |                                 |
| Installation .....                                 | 0701 00-3                       |
| Removal .....                                      | 0701 00-2                       |
| Fog Oil Tank Module                                |                                 |
| Installation .....                                 | 0695 00-5                       |
| Removal .....                                      | 0695 00-2                       |

INDEX, cont'd

| <u>Subject</u>   | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Fog Oil Tank, Quick Disconnect to Adapter Access Plate |                                 |
| Installation .....                                     | 0711 00-3                       |
| Removal .....  | 0711 00-2                       |
| Footrest, Driver's                                     |                                 |
| Installation .....                                     | 0482 00-2                       |
| Removal .....  | 0482 00-1                       |
| Frame, Blackout Curtain                                |                                 |
| Installation .....                                     | 0499 00-3                       |
| Removal .....  | 0499 00-1                       |
| Frame, Stowage, Rear External                          |                                 |
| Installation .....                                     | 0538 00-2                       |
| Removal .....  | 0538 00-1                       |
| Front Bilge Pump                                       |                                 |
| Pipes  |                                 |
| Installation .....                                     | 0323 00-2                       |
| Removal .....  | 0323 00-1                       |
| Strainer   |                                 |
| Installation .....                                     | 0322 00-2                       |
| Removal .....  | 0322 00-1                       |
| Front Bilge Valve                                      |                                 |
| Inspection-Acceptance and Rejection Criteria .....     | 0324 00-1                       |
| Installation .....                                     | 0324 00-2                       |
| Removal .....  | 0324 00-1                       |
| Front Dome Light Switch                                |                                 |
| Installation .....                                     | 0278 00-2                       |
| Removal .....  | 0278 00-1                       |
| Fuel Can Lid Assembly, Smoke Generator                 |                                 |
| Installation .....                                     | 0706 00-3                       |
| Removal .....  | 0706 00-2                       |
| Fuel Cap Vent and Filter Screen                        |                                 |
| Cleaning .....   | 0150 00-1                       |
| Fuel Control Cable                                     |                                 |
| Adjustment .....                                       | 0403 00-5                       |
| Installation .....                                     | 0403 00-4                       |
| Removal .....  | 0403 00-1                       |
| Fuel Filter  |                                 |
| Mounting Bracket                                       |                                 |
| Installation .....                                     | 0175 00-2                       |
| Removal .....  | 0175 00-1                       |

**INDEX, cont'd**

| <u>Subject</u>  | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Mounting Bracket (M577A2 and M1068 With 200 Amp Generator)      |                                 |
| Installation .....  | 0233 00-2                       |
| Removal .....   | 0233 00-1                       |
| Fuel Filter Elements  |                                 |
| Installation .....  | 0174 00-2                       |
| Removal .....   | 0174 00-1                       |
| Fuel Filter/Bracket   |                                 |
| Personnel Heater  |                                 |
| Installation .....  | 0616 00-3                       |
| Removal .....   | 0616 00-2                       |
| Fuel Flow Diagram   |                                 |
| M113A2, M1059, and M901A1 With Inside Tank or Compartment ..... | 0132 00-1                       |
| M577A2 and M1068 .....  | 0133 00-1                       |
| M981 and M1064 With External Fuel Tanks .....                   | 0134 00-1                       |
| Fuel Hose   |                                 |
| Left to Right Cylinder Head                                     |                                 |
| Installation .....  | 0167 00-2                       |
| Removal .....   | 0167 00-1                       |
| Secondary Fuel Filter to Left Cylinder Head                     |                                 |
| Installation .....  | 0166 00-3                       |
| Removal .....   | 0166 00-1                       |
| Fuel Inlet Hose, Coolant Heater to Bulkhead                     |                                 |
| Installation .....  | 0644 00-3                       |
| Removal .....   | 0644 00-2                       |
| Fuel Lines and Guards, Smoke Generator                          |                                 |
| Installation .....  | 0707 00-3                       |
| Removal .....   | 0707 00-2                       |
| Fuel Pump   |                                 |
| Coolant Heater  |                                 |
| M113A2, M901A1, and M1059                                       |                                 |
| Installation .....  | 0640 00-2                       |
| Removal .....   | 0640 00-1                       |
| M577A2 and M1068  |                                 |
| Installation .....  | 0641 00-2                       |
| Removal .....   | 0641 00-1                       |
| Electronic Equipment Heater                                     |                                 |
| Installation .....  | 0626 00-3                       |
| Removal .....   | 0626 00-2                       |
| Engine  |                                 |
| Installation .....  | 0171 00-3                       |
| Removal .....   | 0171 00-1                       |
| Hose, Tee Connection to Fuel Pump                               |                                 |
| Installation .....  | 0605 00-3                       |
| Removal .....   | 0605 00-2                       |

INDEX, cont'd

| <u>Subject</u>                                     | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Fuel Pump Hose                                     |                                 |
| Installation .....                                 | 0608 00-2                       |
| Removal .....                                      | 0608 00-1                       |
| Fuel Quantity Selector Switch                      |                                 |
| Installation .....                                 | 0337 00-2                       |
| Removal .....                                      | 0337 00-1                       |
| Fuel Quantity Transmitter                          |                                 |
| M113A2, M1059, and M901A1                          |                                 |
| Installation .....                                 | 0138 00-2                       |
| Removal .....                                      | 0138 00-1                       |
| M577A2 and M1068                                   |                                 |
| Cleaning .....                                     | 0155 00-2                       |
| Installation .....                                 | 0155 00-2                       |
| Removal .....                                      | 0155 00-1                       |
| M981 and M1064                                     |                                 |
| Installation .....                                 | 0146 00-3                       |
| Removal .....                                      | 0146 00-1                       |
| Fuel Return  |                                 |
| Hoses, Tubes, and Fittings                         |                                 |
| M1064 Only   |                                 |
| Installation .....                                 | 0152 00-6                       |
| Removal .....                                      | 0152 00-1                       |
| M577A2 and M1068                                   |                                 |
| Installation .....                                 | 0159 00-5                       |
| Removal .....                                      | 0159 00-1                       |
| M981 Only  |                                 |
| Installation .....                                 | 0149 00-7                       |
| Removal .....                                      | 0149 00-1                       |
| Fuel Select Switch to Gauge Lead                   |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0250 00-1                       |
| Installation .....                                 | 0250 00-2                       |
| Removal .....                                      | 0250 00-1                       |
| Fuel Shutoff Valve                                 |                                 |
| Auxiliary Power Unit                               |                                 |
| Installation .....                                 | 0594 00-3                       |
| Removal .....                                      | 0594 00-2                       |
| Installation .....                                 | 0615 00-2                       |
| Removal .....                                      | 0615 00-1                       |
| Fuel Supply  |                                 |
| Hoses, Tubes, and Fittings                         |                                 |
| M1064 Only   |                                 |
| Installation .....                                 | 0151 00-6                       |
| Removal .....                                      | 0151 00-1                       |
| M577A2 and M1068                                   |                                 |
| Installation .....                                 | 0158 00-5                       |
| Removal .....                                      | 0158 00-1                       |

INDEX, cont'd

| <u>Subject</u>                          | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| M981 Only                               |                                 |
| Installation .....                      | 0148 00-7                       |
| Removal .....                           | 0148 00-1                       |
| Fuel Supply Hoses                       |                                 |
| Auxiliary Power Unit Bulkhead-to-Hull   |                                 |
| Installation .....                      | 0596 00-4                       |
| Removal .....                           | 0596 00-2                       |
| Auxiliary Power Unit Valve-to-Bulkhead  |                                 |
| Installation .....                      | 0595 00-4                       |
| Removal .....                           | 0595 00-2                       |
| Fuel Tank                               |                                 |
| Access Covers                           |                                 |
| M577A2 and M1068                        |                                 |
| Installation .....                      | 0156 00-2                       |
| Removal .....                           | 0156 00-1                       |
| M981 and M1064                          |                                 |
| Installation .....                      | 0145 00-2                       |
| Removal .....                           | 0145 00-1                       |
| All Except M1064                        |                                 |
| Repair .....                            | 0140 00-1                       |
| Drain                                   |                                 |
| M113A2, M901A1, and M1059 .....         | 0135 00-1                       |
| M577A2 and M1068 .....                  | 0153 00-1                       |
| M981 and M1064 .....                    | 0142 00-1                       |
| Drain Plugs                             |                                 |
| Installation .....                      | 0145 00-2                       |
| Removal .....                           | 0145 00-1                       |
| Filler Cover and Lock                   |                                 |
| Installation .....                      | 0143 00-2                       |
| Removal .....                           | 0143 00-1                       |
| Filler Flange                           |                                 |
| Installation .....                      | 0157 00-2                       |
| Removal .....                           | 0157 00-1                       |
| M113A2, M901A1, and M1059               |                                 |
| Assembly .....                          | 0139 00-7                       |
| Cleaning, Inspection, and Repair .....  | 0139 00-7                       |
| Disassembly .....                       | 0139 00-6                       |
| Installation .....                      | 0139 00-10                      |
| Removal .....                           | 0139 00-1                       |
| M577A2 and M1068                        |                                 |
| Installation .....                      | 0161 00-4                       |
| Removal .....                           | 0161 00-1                       |
| M981 and M1064                          |                                 |
| Installation .....                      | 0147 00-6                       |
| Removal .....                           | 0147 00-1                       |
| Fuel Tank Filler Cap and Strainer Parts |                                 |
| Installation .....                      | 0137 00-2                       |
| Removal .....                           | 0137 00-1                       |



INDEX, cont'd

| <u>Subject</u>  | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Fuel Vent Hoses, Tubes, and Fittings                        |                                 |
| Installation .....  | 0160 00-4                       |
| Removal .....   | 0160 00-1                       |
| <b>G</b>  |                                 |
| Gasket, Differential  |                                 |
| Installation .....  | 0364 00-3                       |
| Removal .....   | 0364 00-1                       |
| Gauge Lead, Fuel Select Switch                              |                                 |
| Inspection-Acceptance and Rejection Criteria .....          | 0250 00-1                       |
| Installation .....  | 0250 00-2                       |
| Removal .....   | 0250 00-1                       |
| Gauges, Instrument Panel                                    |                                 |
| Installation .....  | 0244 00-2                       |
| Removal .....   | 0244 00-1                       |
| Gearbox to Differential Hose and Fittings                   |                                 |
| Inspection-Acceptance and Rejection Criteria .....          | 0359 00-2                       |
| Installation .....  | 0359 00-2                       |
| Removal .....   | 0359 00-1                       |
| General Information   |                                 |
| Destruction of Army Materiel to Prevent Enemy Use .....     | 0001 00-7                       |
| Maintenance Forms, Records, and Reports .....               | 0001 00-7                       |
| Nomenclature Cross-Reference .....                          | 0001 00-7                       |
| Preparation for Storage or Shipment .....                   | 0001 00-7                       |
| Reporting Equipment Improvement Recommendations (EIR) ..... | 0001 00-7                       |
| Safety, Care, and Handling .....                            | 0001 00-10                      |
| Scope .....   | 0001 00-1                       |
| Generator   |                                 |
| 100 Amp Generator   |                                 |
| Installation .....  | 0227 00-4                       |
| Removal .....   | 0227 00-1                       |
| 200 Amp Generator   |                                 |
| Installation .....  | 0228 00-4                       |
| Removal .....   | 0228 00-1                       |
| Generator Drive Belt  |                                 |
| 100 Amp Generator   |                                 |
| Installation .....  | 0226 00-2                       |
| Removal .....   | 0226 00-1                       |
| Repair or Replacement .....                                 | 0226 00-2                       |
| 200 Amp Generator   |                                 |
| Installation .....  | 0234 00-2                       |
| Removal .....   | 0234 00-1                       |

INDEX, cont'd

| <u>Subject</u>                            | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Generator Field Switch                    |                                 |
| Installation .....                        | 0232 00-2                       |
| Removal .....                             | 0232 00-1                       |
| Repair or Replacement .....               | 0232 00-1                       |
| Generator Set, Enclosure                  |                                 |
| Installation .....                        | 0472 00-2                       |
| Removal .....                             | 0472 00-1                       |
| Generator-Regulator, Circuit Breaker      |                                 |
| Installation .....                        | 0231 00-3                       |
| Removal .....                             | 0231 00-1                       |
| Repair or Replacement .....               | 0231 00-2                       |
| Glow Plug Cable Assembly, Smoke Generator |                                 |
| Installation .....                        | 0714 00-4                       |
| Removal .....                             | 0714 00-1                       |
| Grenade Stowage Box                       |                                 |
| Installation .....                        | 0540 00-2                       |
| Removal .....                             | 0540 00-1                       |
| Grill, Power Plant                        |                                 |
| Lower Grill .....                         | 0130 00-11                      |
| Raise Grill .....                         | 0130 00-2                       |
| Ground Lead                               |                                 |
| Battery                                   |                                 |
| Connect .....                             | 0294 00-2                       |
| Disconnect .....                          | 0294 00-1                       |
| Horn                                      |                                 |
| Installation .....                        | 0255 00-2                       |
| Removal .....                             | 0255 00-1                       |
| Instrument Panel                          |                                 |
| Installation .....                        | 0238 00-2                       |
| Removal .....                             | 0238 00-1                       |
| Guard                                     |                                 |
| Antenna                                   |                                 |
| Installation .....                        | 0527 00-2                       |
| Removal .....                             | 0527 00-1                       |
| Stoplight/Taillight                       |                                 |
| Installation .....                        | 0272 00-4                       |
| Removal .....                             | 0272 00-1                       |
| Guide, Oil Gauge Rod                      |                                 |
| Installation .....                        | 0129 00-2                       |
| Removal .....                             | 0129 00-1                       |

INDEX, cont'd

| <u>Subject</u>                            | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Gun Traverse Restrictor                   |                                 |
| Installation .....                        | 0667 00-2                       |
| Removal .....                             | 0667 00-1                       |
| <b>H</b>                                  |                                 |
| Hand Throttle Control Cable               |                                 |
| Adjustment .....                          | 0402 00-3                       |
| Installation .....                        | 0402 00-3                       |
| Removal .....                             | 0402 00-2                       |
| Hatch, Mortar, Interior Release Mechanism |                                 |
| Adjustment .....                          | 0466 00-4                       |
| Installation .....                        | 0466 00-3                       |
| Removal .....                             | 0466 00-2                       |
| Headlight                                 |                                 |
| Blackout                                  |                                 |
| Assembly .....                            | 0261 00-2                       |
| Clean, Inspect, and Repair .....          | 0260 00-1                       |
| Cleaning .....                            | 0261 00-1                       |
| Disassembly .....                         | 0261 00-1                       |
| Installation .....                        | 0260 00-2                       |
| Removal .....                             | 0260 00-1                       |
| High Beam Selector Switch                 |                                 |
| Installation .....                        | 0285 00-2                       |
| Removal .....                             | 0285 00-1                       |
| Service and Infrared                      |                                 |
| Assembly .....                            | 0257 00-2                       |
| Clean, Inspect, and Repair .....          | 0257 00-2                       |
| Disassembly .....                         | 0257 00-1                       |
| Installation .....                        | 0256 00-2                       |
| Removal .....                             | 0256 00-1                       |
| Headlight Guard                           |                                 |
| Installation .....                        | 0262 00-2                       |
| Removal .....                             | 0262 00-1                       |
| Heat Exchanger                            |                                 |
| Battery Box Insulation                    |                                 |
| M113A2, M901A1, and M1059                 |                                 |
| Clean, Inspect, and Repair .....          | 0310 00-2                       |
| Installation .....                        | 0310 00-3                       |
| Removal .....                             | 0310 00-1                       |
| M577A2 and M1068                          |                                 |
| Clean, Inspect and Repair .....           | 0309 00-3                       |
| Installation .....                        | 0309 00-4                       |
| Removal .....                             | 0309 00-1                       |
| Battery Drawer Insulation                 |                                 |
| Clean, Inspect, and Repair .....          | 0308 00-3                       |
| Installation .....                        | 0308 00-4                       |
| Removal .....                             | 0308 00-1                       |

INDEX, cont'd

| <u>Subject</u>                                | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Heater Coolant Flow Diagram .....             | 0635 00-1                       |
| Heater Fuel Lines                             |                                 |
| Bleeding Air From System .....                | 0599 00-1                       |
| Heater Fuel Pump                              |                                 |
| Service Bendix/Facet .....                    | 0597 00-1                       |
| Service Walbro .....                          | 0597 00-2                       |
| Heater Tube, Bulkhead Connection              |                                 |
| Installation .....                            | 0607 00-4                       |
| Removal .....                                 | 0607 00-2                       |
| High-Stow Bracket                             |                                 |
| Assembly .....                                | 0477 00-3                       |
| Disassembly .....                             | 0477 00-2                       |
| Installation .....                            | 0477 00-4                       |
| Removal .....                                 | 0477 00-1                       |
| High-Stow Launcher Support                    |                                 |
| Assembly .....                                | 0476 00-3                       |
| Disassembly .....                             | 0476 00-2                       |
| Installation .....                            | 0476 00-4                       |
| Removal .....                                 | 0476 00-1                       |
| Hold-Open Hook and Bumper, Commander's Cupola |                                 |
| Installation .....                            | 0456 00-2                       |
| Removal .....                                 | 0456 00-1                       |
| Hook and Bumper, Commander's Hatch            |                                 |
| Installation .....                            | 0462 00-4                       |
| Removal .....                                 | 0462 00-2                       |
| Horn and Ground Lead                          |                                 |
| Installation .....                            | 0255 00-2                       |
| Removal .....                                 | 0255 00-1                       |
| Horn Switch                                   |                                 |
| Installation .....                            | 0252 00-2                       |
| Removal .....                                 | 0252 00-1                       |
| Hoses   |                                 |
| Air Box Heater to Fuel Return Tee             |                                 |
| Installation .....                            | 0169 00-4                       |
| Removal .....                                 | 0169 00-1                       |
| Air Cleaner Restriction Indicator             |                                 |
| Installation .....                            | 0186 00-2                       |
| Removal .....                                 | 0186 00-1                       |

INDEX, cont'd

| <u>Subject</u>                                       | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Bulkhead Connection to Primary Fuel Filter           |                                 |
| Installation .....                                   | 0163 00-3                       |
| Removal .....  | 0163 00-1                       |
| Bulkhead to Ramp Cylinder                            |                                 |
| Installation .....                                   | 0590 00-3                       |
| Removal .....  | 0590 00-2                       |
| Crankcase Breather                                   |                                 |
| Installation .....                                   | 0127 00-3                       |
| Removal .....  | 0127 00-2                       |
| Electronic Equipment Heater                          |                                 |
| Heater Fuel Pump to Bulkhead Connection              |                                 |
| Installation .....                                   | 0628 00-3                       |
| Removal .....  | 0628 00-1                       |
| Shutoff Valve to Fuel Pump                           |                                 |
| Installation .....                                   | 0627 00-3                       |
| Removal .....  | 0627 00-1                       |
| Electronic Equipment Heater, Bulkhead to Heater Hose |                                 |
| Installation .....                                   | 0629 00-4                       |
| Removal .....  | 0629 00-2                       |
| Engine Air Inlet Elbow to Air Box Heater             |                                 |
| Installation .....                                   | 0168 00-3                       |
| Removal .....  | 0168 00-1                       |
| Engine Fuel Pump to Secondary Fuel Filter            |                                 |
| Installation .....                                   | 0165 00-3                       |
| Removal .....  | 0165 00-1                       |
| Fuel Pump to Bulkhead                                |                                 |
| Installation .....                                   | 0606 00-2                       |
| Removal .....  | 0606 00-1                       |
| Fuel Supply  |                                 |
| Auxiliary Power Unit Bulkhead-to-Hull                |                                 |
| Installation .....                                   | 0596 00-4                       |
| Removal .....  | 0596 00-2                       |
| Auxiliary Power Unit Valve-to-Bulkhead               |                                 |
| Installation .....                                   | 0595 00-4                       |
| Removal .....  | 0595 00-2                       |
| Fuel Tank to Fuel Pump                               |                                 |
| Installation .....                                   | 0604 00-3                       |
| Removal .....  | 0604 00-2                       |
| Fuel Tank-to-Bulkhead                                |                                 |
| Installation .....                                   | 0141 00-6                       |
| Removal .....  | 0141 00-1                       |
| Fuel Vent  |                                 |
| Installation .....                                   | 0160 00-4                       |
| Removal .....  | 0160 00-1                       |
| Left Cylinder Head Fuel Return                       |                                 |
| Installation .....                                   | 0170 00-2                       |
| Removal .....  | 0170 00-1                       |
| Primary Fuel Filter to Engine Fuel Pump              |                                 |
| Installation .....                                   | 0164 00-3                       |
| Removal .....  | 0164 00-1                       |

INDEX, cont'd

| <u>Subject</u>                         | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Ramp Control Valve to Hydraulic Tank   |                                 |
| Installation .....                     | 0583 00-3                       |
| Removal .....                          | 0583 00-2                       |
| Ramp Pump to Pressure Relief Valve     |                                 |
| Clean, Inspect, and Repair .....       | 0581 00-3                       |
| Installation .....                     | 0581 00-3                       |
| Removal .....                          | 0581 00-2                       |
| Relief Valve Tee to Quick Disconnect   |                                 |
| Installation .....                     | 0582 00-3                       |
| Removal .....                          | 0582 00-1                       |
| <br>Hoses, Tubes, and Fittings         |                                 |
| Fuel Return                            |                                 |
| M1064 Only                             |                                 |
| Installation .....                     | 0152 00-6                       |
| Removal .....                          | 0152 00-1                       |
| M577A2 and M1068                       |                                 |
| Installation .....                     | 0159 00-5                       |
| Removal .....                          | 0159 00-1                       |
| M981 Only                              |                                 |
| Installation .....                     | 0149 00-7                       |
| Removal .....                          | 0149 00-1                       |
| Fuel Supply                            |                                 |
| M1064 Only                             |                                 |
| Installation .....                     | 0151 00-6                       |
| Removal .....                          | 0151 00-1                       |
| M577A2 and M1068                       |                                 |
| Installation .....                     | 0158 00-5                       |
| Removal .....                          | 0158 00-1                       |
| M981 Only                              |                                 |
| Installation .....                     | 0148 00-7                       |
| Removal .....                          | 0148 00-1                       |
| <br>Housing, Air Cleaner               |                                 |
| Installation .....                     | 0185 00-2                       |
| Removal .....                          | 0185 00-1                       |
| <br>Hub, Road Wheel                    |                                 |
| Clean, Inspect, and Replace .....      | 0373 00-2                       |
| Installation .....                     | 0373 00-2                       |
| Removal .....                          | 0373 00-1                       |
| <br>Hull                               |                                 |
| Poppet Valves                          |                                 |
| Installation .....                     | 0435 00-2                       |
| Removal .....                          | 0435 00-1                       |
| Welding, repair by .....               | 0575 00-1                       |
| <br>Hydraulic Fluid Flow Diagram ..... | 0578 00-1                       |
| <br>Hydraulic Pump, Ramp               |                                 |
| Installation .....                     | 0588 00-3                       |
| Removal .....                          | 0588 00-2                       |

INDEX, cont'd

| <u>Subject</u>                              | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Hydraulic Tank                              |                                 |
| Assembly .....                              | 0586 00-3                       |
| Clean, Inspect, and Repair .....            | 0585 00-4                       |
| Disassembly .....                           | 0586 00-1                       |
| Fill Hydraulic Tank .....                   | 0585 00-7                       |
| Installation .....                          | 0585 00-4                       |
| Removal .....                               | 0585 00-2                       |
| Strainer                                    |                                 |
| Installation .....                          | 0584 00-3                       |
| Removal .....                               | 0584 00-2                       |
| <b>I</b>                                    |                                 |
| Idler Pulley and Belts, Engine Coolant Pump |                                 |
| Installation .....                          | 0196 00-2                       |
| Removal .....                               | 0196 00-1                       |
| Idler Wheel                                 |                                 |
| Installation .....                          | 0375 00-2                       |
| Removal .....                               | 0375 00-1                       |
| Idler Wheel Arm Assembly                    |                                 |
| Clean, Inspect, and Replace .....           | 0377 00-2                       |
| Installation .....                          | 0377 00-3                       |
| Removal .....                               | 0377 00-2                       |
| Igniter, Coolant Heater                     |                                 |
| Inspection .....                            | 0638 00-1                       |
| Installation .....                          | 0638 00-2                       |
| Removal .....                               | 0638 00-1                       |
| Ignition Coil, Air Box Heater               |                                 |
| Installation .....                          | 0176 00-2                       |
| Removal .....                               | 0176 00-1                       |
| Indicator Lights, Panel                     |                                 |
| Installation .....                          | 0240 00-2                       |
| Removal .....                               | 0240 00-1                       |
| Indicator, Air Cleaner Restriction          |                                 |
| Installation .....                          | 0186 00-2                       |
| Removal .....                               | 0186 00-1                       |
| Instrument Panel                            |                                 |
| Gauges                                      |                                 |
| Installation .....                          | 0244 00-2                       |
| Removal .....                               | 0244 00-1                       |
| Mounts and Ground Lead                      |                                 |
| Installation .....                          | 0238 00-2                       |
| Removal .....                               | 0238 00-1                       |

## INDEX, cont'd

| <u>Subject</u>                | <u>WP Sequence No.-Page No.</u> |
|-------------------------------|---------------------------------|
| On-Off Switches               |                                 |
| Installation .....            | 0241 00-2                       |
| Removal .....                 | 0241 00-1                       |
| Instrument Panel Tachometer   |                                 |
| Installation .....            | 0245 00-2                       |
| Removal .....                 | 0245 00-1                       |
| Interior Latch                |                                 |
| Commander's Cupola            |                                 |
| Adjustment .....              | 0454 00-2                       |
| Installation .....            | 0454 00-2                       |
| Removal .....                 | 0454 00-1                       |
| Commander's Hatch             |                                 |
| Adjustment .....              | 0460 00-3                       |
| Installation .....            | 0460 00-2                       |
| Removal .....                 | 0460 00-1                       |
| Driver's Hatch                |                                 |
| Adjustment .....              | 0445 00-4                       |
| Installation .....            | 0445 00-3                       |
| Removal .....                 | 0445 00-2                       |
| Interior Lock, Driver's Hatch |                                 |
| Adjustment .....              | 0445 00-4                       |
| Installation .....            | 0445 00-3                       |
| Removal .....                 | 0445 00-2                       |
| <b>J</b>                      |                                 |
| Jump Seat, Commander's        |                                 |
| Installation .....            | 0490 00-4                       |
| Removal .....                 | 0490 00-2                       |
| <b>L</b>                      |                                 |
| Latch                         |                                 |
| Cargo Hatch                   |                                 |
| Assembly .....                | 0469 00-2                       |
| Disassembly .....             | 0469 00-1                       |
| Interior, Cargo Hatch         |                                 |
| Adjustment .....              | 0463 00-6                       |
| Installation .....            | 0463 00-4                       |
| Removal .....                 | 0463 00-2                       |
| Launch Tube, Stowage Bracket  |                                 |
| Installation .....            | 0550 00-2                       |
| Removal .....                 | 0550 00-1                       |
| Launcher Support, High-Stow   |                                 |
| Assembly .....                | 0476 00-3                       |
| Disassembly .....             | 0476 00-2                       |
| Installation .....            | 0476 00-4                       |
| Removal .....                 | 0476 00-1                       |



INDEX, cont'd

| <u>Subject</u>  | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Lead  |                                 |
| Battery   |                                 |
| Clean, Inspect, and Repair .....                            | 0300 00-3                       |
| Installation .....  | 0300 00-4                       |
| Removal .....   | 0300 00-1                       |
| Circuit 49, Master Switch to Distribution Box Wire Assembly |                                 |
| All Except M577A2 and M1068                                 |                                 |
| Installation .....  | 0225 00-4                       |
| Removal .....   | 0225 00-1                       |
| Repair .....  | 0225 00-3                       |
| M577A2 and M1068  |                                 |
| Installation .....  | 0235 00-2                       |
| Removal .....   | 0235 00-1                       |
| Repair or Replacement .....                                 | 0235 00-2                       |
| Circuit 6   |                                 |
| Clean, Inspect, and Repair .....                            | 0301 00-2                       |
| Installation .....  | 0301 00-3                       |
| Removal .....   | 0301 00-1                       |
| Left Cylinder Head Fuel Return Tube and Hose                |                                 |
| Installation .....  | 0170 00-2                       |
| Removal .....   | 0170 00-1                       |
| Left Final Drive Shaft                                      |                                 |
| Installation .....  | 0348 00-2                       |
| Removal .....   | 0348 00-1                       |
| Left Side Rack Base   |                                 |
| Installation .....  | 0532 00-3                       |
| Removal .....   | 0532 00-2                       |
| Left to Right Cylinder Head Fuel Hose                       |                                 |
| Installation .....  | 0167 00-2                       |
| Removal .....   | 0167 00-1                       |
| Left/Right Steering Levers                                  |                                 |
| Clean, Inspect, and Replace .....                           | 0389 00-3                       |
| Installation .....  | 0389 00-4                       |
| Removal .....   | 0389 00-1                       |
| Lifting Eye   |                                 |
| Installation .....  | 0416 00-2                       |
| Removal .....   | 0416 00-1                       |
| Light   |                                 |
| Blackout Marker   |                                 |
| Assembly .....  | 0259 00-2                       |
| Clean, Inspect, and Repair .....                            | 0259 00-1                       |
| Disassembly .....   | 0259 00-1                       |
| Installation .....  | 0258 00-2                       |
| Removal .....   | 0258 00-1                       |

INDEX, cont'd

| <u>Subject</u>                   | <u>WP Sequence No.-Page No.</u> |
|----------------------------------|---------------------------------|
| Dome                             |                                 |
| All Except M577A2 and M1068      |                                 |
| Assembly .....                   | 0274 00-3                       |
| Clean, Inspect, and Repair ..... | 0274 00-2                       |
| Disassembly .....                | 0274 00-1                       |
| Installation .....               | 0273 00-2                       |
| Removal .....                    | 0273 00-1                       |
| M577A2 and M1068                 |                                 |
| Assembly .....                   | 0276 00-3                       |
| Clean, Inspect, and Repair ..... | 0276 00-2                       |
| Disassembly .....                | 0276 00-1                       |
| Installation .....               | 0275 00-2                       |
| Removal .....                    | 0275 00-1                       |
| Left Stoplight                   |                                 |
| Installation .....               | 0263 00-2                       |
| Removal .....                    | 0263 00-1                       |
| Left Taillight                   |                                 |
| Installation .....               | 0263 00-2                       |
| Removal .....                    | 0263 00-1                       |
| Right Stoplight                  |                                 |
| Installation .....               | 0265 00-2                       |
| Removal .....                    | 0265 00-1                       |
| Stoplight-Taillight and Guards   |                                 |
| Installation .....               | 0272 00-4                       |
| Removal .....                    | 0272 00-1                       |
| Light Switch, Main               |                                 |
| Installation .....               | 0242 00-2                       |
| Removal .....                    | 0242 00-1                       |
| Linkage                          |                                 |
| Control, Trim Vane               |                                 |
| Assembly .....                   | 0423 00-2                       |
| Disassembly .....                | 0423 00-1                       |
| Ramp                             |                                 |
| M1064 Only                       |                                 |
| Clean, Inspect, and Repair ..... | 0560 00-3                       |
| Installation .....               | 0560 00-3                       |
| Removal .....                    | 0560 00-1                       |
| M113, M901A1, and M1059          |                                 |
| Installation .....               | 0558 00-4                       |
| Removal .....                    | 0558 00-2                       |
| M577A2 and M1068                 |                                 |
| Clean, Inspect, and Repair ..... | 0563 00-3                       |
| Installation .....               | 0563 00-4                       |
| Removal .....                    | 0563 00-2                       |
| Steering                         |                                 |
| Adjustment .....                 | 0387 00-1                       |

INDEX, cont'd

| <u>Subject</u>                                       | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Linkage, Accelerator and Transmission Throttle Valve |                                 |
| Adjust Governor Linkage .....                        | 0401 00-2                       |
| Adjust Idle Stop .....                               | 0401 00-6                       |
| Adjust Throttle Valve Linkage .....                  | 0401 00-4                       |
| Adjust Upper Accelerator Detent Plunger .....        | 0401 00-9                       |
| Adjust Upper Accelerator Pedal Detent Stop .....     | 0401 00-7                       |
| Adjust Upper Accelerator Pedal Toe Stop .....        | 0401 00-8                       |
| Check Operation .....                                | 0401 00-9                       |
| Linkage, Range Selector                              |                                 |
| Adjustment .....                                     | 0407 00-4                       |
| Clean, Inspect, and Repair .....                     | 0407 00-2                       |
| Installation .....                                   | 0407 00-3                       |
| Removal .....  | 0407 00-1                       |
| Links  |                                 |
| Differential Cross-Shaft                             |                                 |
| Clean, Inspect, and Repair .....                     | 0393 00-2                       |
| Installation .....                                   | 0393 00-2                       |
| Removal .....  | 0393 00-1                       |
| Pivot Steer Handles                                  |                                 |
| Inspection-Acceptance and Rejection Criteria .....   | 0410 00-2                       |
| Installation .....                                   | 0410 00-3                       |
| Removal .....  | 0410 00-1                       |
| Litter Kit   |                                 |
| Chain Assembly                                       |                                 |
| Assembly .....                                       | 0659 00-3                       |
| Disassembly .....                                    | 0659 00-2                       |
| Installation .....                                   | 0658 00-2                       |
| Removal .....  | 0658 00-1                       |
| Post Assembly  |                                 |
| Assembly .....                                       | 0661 00-2                       |
| Cleaning, Inspection, and Repair .....               | 0661 00-2                       |
| Disassembly .....                                    | 0661 00-1                       |
| Installation .....                                   | 0660 00-2                       |
| Removal .....  | 0660 00-1                       |
| Lock, Ramp   |                                 |
| Adjustment   |                                 |
| M1064 Only .....                                     | 0559 00-2                       |
| M113A2, M901A1, and M1059 .....                      | 0556 00-3                       |
| M577A2 and M1068 .....                               | 0561 00-1                       |
| Low-Stow Cushion Base                                |                                 |
| Installation .....                                   | 0475 00-2                       |
| Removal .....  | 0475 00-1                       |

INDEX, cont'd

| <u>Subject</u>   | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| <b>M</b>   |                                 |
| Machine Gun Armor Shield Kit                             |                                 |
| 30 Cal. Gun Mount Adapter Assembly                       |                                 |
| Installation .....                                       | 0665 00-1                       |
| Removal .....  | 0665 00-1                       |
| 7.62MM M60 Machine Gun Mount Assembly                    |                                 |
| Installation .....                                       | 0664 00-2                       |
| Removal .....  | 0664 00-1                       |
| Armor Shield, Rear, Mounting Arm Lock Assembly and Mount |                                 |
| Installation .....                                       | 0669 00-2                       |
| Removal .....  | 0669 00-1                       |
| Gun Traverse Restrictor                                  |                                 |
| Installation .....                                       | 0667 00-2                       |
| Removal .....  | 0667 00-1                       |
| Rear Armor Shields                                       |                                 |
| Installation .....                                       | 0668 00-3                       |
| Removal .....  | 0668 00-1                       |
| Rear Gun Pintle Socket                                   |                                 |
| Installation .....                                       | 0666 00-2                       |
| Removal .....  | 0666 00-1                       |
| Machine Gun Mount Stops, Commander's Cupola              |                                 |
| Installation .....                                       | 0458 00-2                       |
| Removal .....  | 0458 00-1                       |
| Machine Gun Mount, Commander's Cupola                    |                                 |
| Assembly .....   | 0457 00-3                       |
| Clean, Inspect, and Repair .....                         | 0457 00-2                       |
| Disassembly .....  | 0457 00-2                       |
| Installation .....                                       | 0457 00-4                       |
| Removal .....  | 0457 00-1                       |
| Main Light Switch  |                                 |
| Installation .....                                       | 0242 00-2                       |
| Removal .....  | 0242 00-1                       |
| Maintenance Allocation Chart (MAC) .....                 | 0779 00-1                       |
| Malfunction/Symptom Index                                |                                 |
| Bilge Pumps .....  | 0006 00-2                       |
| Charging System .....                                    | 0006 00-1                       |
| Chemical Agent Auto Alarm System .....                   | 0006 00-3                       |
| Communication Equipment (M1068 Only) .....               | 0006 00-3                       |
| Electrical Power Equipment (M1068 Only) .....            | 0006 00-2                       |
| Electrical System .....                                  | 0006 00-1                       |
| Engine System .....                                      | 0006 00-1                       |
| Personnel Heater .....                                   | 0006 00-2                       |
| Ramp System .....  | 0006 00-2                       |
| Smoke Grenade System .....                               | 0006 00-2                       |
| Speedometer/Tachometer .....                             | 0006 00-3                       |
| Steering System .....                                    | 0006 00-2                       |
| Winterization System .....                               | 0006 00-2                       |

INDEX, cont'd

| <u>Subject</u>                                       | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Map Board  |                                 |
| M1068 Only   |                                 |
| Installation .....                                   | 0535 00-2                       |
| Removal .....  | 0535 00-1                       |
| M577A2 Only  |                                 |
| Installation .....                                   | 0534 00-3                       |
| Removal .....  | 0534 00-2                       |
| Map Storage Box                                      |                                 |
| Assembly .....                                       | 0537 00-2                       |
| Disassembly .....                                    | 0537 00-1                       |
| Installation .....                                   | 0536 00-2                       |
| Removal .....  | 0536 00-1                       |
| Marine Recovery Kit                                  |                                 |
| Stowage Hooks and Brackets                           |                                 |
| Installation .....                                   | 0656 00-2                       |
| Removal .....  | 0656 00-1                       |
| Tarpaulin and Straps                                 |                                 |
| Installation .....                                   | 0655 00-2                       |
| Removal .....  | 0655 00-1                       |
| Towlines   |                                 |
| Clean, Inspect, and Repair .....                     | 0657 00-2                       |
| Installation .....                                   | 0657 00-3                       |
| Removal .....  | 0657 00-1                       |
| Master Cylinders and Hoses, Pivot Steer              |                                 |
| Installation .....                                   | 0412 00-2                       |
| Removal .....  | 0412 00-1                       |
| Master Switch  |                                 |
| Panel Assembly                                       |                                 |
| Early Slave Receptacle (All Except M577A2 and M1068) |                                 |
| Installation .....                                   | 0223 00-3                       |
| Removal .....  | 0223 00-1                       |
| Early Slave Receptacle (M577A2 and M1068)            |                                 |
| Installation .....                                   | 0224 00-5                       |
| Removal .....  | 0224 00-1                       |
| To Distribution Box Wire Assembly (Circuit 49 Lead)  |                                 |
| All Except M577A2 and M1068                          |                                 |
| Installation .....                                   | 0225 00-4                       |
| Removal .....  | 0225 00-1                       |
| Repair .....   | 0225 00-3                       |
| M577A2 and M1068                                     |                                 |
| Installation .....                                   | 0235 00-2                       |
| Removal .....  | 0235 00-1                       |
| Repair or Replacement .....                          | 0235 00-2                       |
| Master Switch Assembly                               |                                 |
| Installation .....                                   | 0221 00-4                       |
| Removal .....  | 0221 00-1                       |

**INDEX, cont'd**

| <u>Subject</u>                                   | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Master Switch Panel Assembly                     |                                 |
| Late Slave Receptacle                            |                                 |
| Installation . . . . .                           | 0222 00-3                       |
| Removal . . . . .                                | 0222 00-1                       |
| Master Switch Panel Lead Assembly to Dome Lights |                                 |
| Installation . . . . .                           | 0277 00-2                       |
| Removal . . . . .                                | 0277 00-1                       |
| Materials and Expendable Supplies List . . . . . | 0782 00-1                       |
| Missile Rack                                     |                                 |
| Assembly . . . . .                               | 0548 00-4                       |
| Clean, Inspect, and Repair . . . . .             | 0548 00-3                       |
| Disassembly . . . . .                            | 0548 00-3                       |
| Installation . . . . .                           | 0548 00-4                       |
| Removal . . . . .                                | 0548 00-2                       |
| Missile Rack Retainers                           |                                 |
| Installation . . . . .                           | 0549 00-2                       |
| Removal . . . . .                                | 0549 00-1                       |
| Mortar Hatch                                     |                                 |
| Covers   |                                 |
| Installation . . . . .                           | 0468 00-3                       |
| Removal . . . . .                                | 0468 00-1                       |
| Interior Release Mechanisms                      |                                 |
| Adjustment . . . . .                             | 0466 00-4                       |
| Installation . . . . .                           | 0466 00-3                       |
| Removal . . . . .                                | 0466 00-2                       |
| Mortar Hatch, Exterior Catches and Bumpers       |                                 |
| Adjustment . . . . .                             | 0467 00-5                       |
| Installation . . . . .                           | 0467 00-4                       |
| Removal . . . . .                                | 0467 00-2                       |
| Mount  |                                 |
| Dome Light                                       |                                 |
| Assembly . . . . .                               | 0276 00-3                       |
| Clean, Inspect, and Repair . . . . .             | 0276 00-2                       |
| Disassembly . . . . .                            | 0276 00-1                       |
| Driver's Seat                                    |                                 |
| Assembly . . . . .                               | 0481 00-3                       |
| Clean, Inspect, and Repair . . . . .             | 0481 00-2                       |
| Disassembly . . . . .                            | 0481 00-2                       |
| Installation . . . . .                           | 0480 00-2                       |
| Removal . . . . .                                | 0480 00-1                       |
| Differential                                     |                                 |
| Installation . . . . .                           | 0363 00-4                       |
| Removal . . . . .                                | 0363 00-1                       |

INDEX, cont'd

| <u>Subject</u>  | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Engine, Front   |                                 |
| Installation .....                                    | 0122 00-2                       |
| Removal .....   | 0122 00-1                       |
| Fire Extinguisher, Portable                           |                                 |
| All Except M1068                                      |                                 |
| Installation .....                                    | 0770 00-3                       |
| Removal .....   | 0770 00-2                       |
| M1068 Only  |                                 |
| Assembly .....  | 0772 00-4                       |
| Disassembly .....                                     | 0772 00-3                       |
| Installation .....                                    | 0772 00-5                       |
| Removal .....   | 0772 00-2                       |
| Instrument Panel                                      |                                 |
| Installation .....                                    | 0238 00-2                       |
| Removal .....   | 0238 00-1                       |
| Ramp Door   |                                 |
| Adjustment .....                                      | 0283 00-3                       |
| Clean, Inspect, and Repair .....                      | 0283 00-2                       |
| Installation .....                                    | 0283 00-2                       |
| Removal .....   | 0283 00-1                       |
| Shock Absorber  |                                 |
| Installation .....                                    | 0381 00-2                       |
| Removal .....   | 0381 00-1                       |
| Tent Frame  |                                 |
| Installation .....                                    | 0505 00-3                       |
| Removal .....   | 0505 00-1                       |
| Track Tension Adjuster                                |                                 |
| Clean, Inspect, and Replace .....                     | 0378 00-2                       |
| Installation .....                                    | 0378 00-2                       |
| Removal .....   | 0378 00-1                       |
| Traversing Unit                                       |                                 |
| Installation .....                                    | 0552 00-2                       |
| Removal .....   | 0552 00-1                       |
| Mounting Bracket                                      |                                 |
| Fuel Filter (M577A2 and M1068 With 200 Amp Generator) |                                 |
| Installation .....                                    | 0233 00-2                       |
| Removal .....   | 0233 00-1                       |
| Muffler And Brackets                                  |                                 |
| Installation .....                                    | 0191 00-2                       |
| Removal .....   | 0191 00-1                       |
| Muffler Extension and Valve                           |                                 |
| Installation .....                                    | 0190 00-3                       |
| Removal .....   | 0190 00-1                       |
| Multiple Pin and Socket Identification                |                                 |
| Inspection-Acceptance and Rejection Criteria .....    | 0311 00-1                       |

**INDEX, cont'd**

Subject WP Sequence No.-Page No.

**N**

|   |           |
|---|-----------|
| NATO Auxiliary Power (Slave) Receptacle |           |
| Installation . . . . .                  | 0220 00-3 |
| Removal . . . . .                       | 0220 00-2 |

NBC Kit

M13

|                                     |           |
|-------------------------------------|-----------|
| Filter Switch and Mount Bracket     |           |
| Installation . . . . .              | 0673 00-3 |
| Removal . . . . .                   | 0673 00-2 |
| Filters and Hoses (M1068 Only)      |           |
| Installation . . . . .              | 0681 00-4 |
| Removal . . . . .                   | 0681 00-2 |
| Filters and Hoses (M577A2 Only)     |           |
| Installation . . . . .              | 0671 00-8 |
| Removal . . . . .                   | 0671 00-2 |
| Heater Hoses                        |           |
| Installation . . . . .              | 0682 00-5 |
| Removal . . . . .                   | 0682 00-2 |
| Heater Wiring Harness (M1068 Only)  |           |
| Installation . . . . .              | 0684 00-5 |
| Removal . . . . .                   | 0684 00-1 |
| Heater Wiring Harness (M577A2 Only) |           |
| Installation . . . . .              | 0670 00-3 |
| Removal . . . . .                   | 0670 00-1 |
| Heaters and Mounts                  |           |
| Installation . . . . .              | 0672 00-4 |
| Removal . . . . .                   | 0672 00-2 |
| Precleaner and Frame                |           |
| Installation . . . . .              | 0680 00-2 |
| Removal . . . . .                   | 0680 00-1 |

M14

|   |           |
|---|-----------|
| NBC Hoses and Brackets (M113A2 Ambulance) |           |
| Installation . . . . .                    | 0688 00-4 |
| Removal . . . . .                         | 0688 00-2 |

M3

|  |           |
|--|-----------|
| Control Box                                  |           |
| Installation . . . . .                       | 0675 00-2 |
| Removal . . . . .                            | 0675 00-1 |
| Filter Switch and Mount Bracket              |           |
| Installation . . . . .                       | 0674 00-3 |
| Removal . . . . .                            | 0674 00-2 |
| Filter Switch Assembly (M113A2 Ambulance)    |           |
| Installation . . . . .                       | 0686 00-3 |
| Removal . . . . .                            | 0686 00-1 |
| Heater Control Box                           |           |
| Installation . . . . .                       | 0683 00-2 |
| Removal . . . . .                            | 0683 00-1 |
| Heater Hoses and Fittings (M113A2 Ambulance) |           |
| Installation . . . . .                       | 0685 00-5 |
| Removal . . . . .                            | 0685 00-2 |



INDEX, cont'd

| <u>Subject</u>   | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Heaters and Controllers (M113A2 Ambulance Only)                |                                 |
| Installation .....   | 0687 00-3                       |
| Removal .....  | 0687 00-1                       |
| M42  |                                 |
| Orifice Connector Assembly                                     |                                 |
| Installation .....   | 0692 00-2                       |
| Removal .....  | 0692 00-1                       |
| Ventilated Face Mask Gas Filter                                |                                 |
| Installation .....   | 0693 00-3                       |
| Removal .....  | 0693 00-2                       |
| Ventilated Face Mask Heater                                    |                                 |
| Installation .....   | 0694 00-2                       |
| Removal .....  | 0694 00-1                       |
| Ventilated Face Mask Hose Assembly                             |                                 |
| Installation .....   | 0691 00-2                       |
| Removal .....  | 0691 00-1                       |
| M8A3   |                                 |
| Cables, Switch Assembly, and Brackets                          |                                 |
| Installation .....   | 0676 00-4                       |
| Removal .....  | 0676 00-2                       |
| Hoses and Brackets   |                                 |
| Installation .....   | 0677 00-4                       |
| Removal .....  | 0677 00-2                       |
| M8A3/M13   |                                 |
| Air Purifier/Precleaner and Frame                              |                                 |
| Installation .....   | 0678 00-3                       |
| Removal .....  | 0678 00-2                       |
| M8A3/M13/M14   |                                 |
| Orifice Connector Assembly, Support, Quick Disconnect Assembly |                                 |
| Installation .....   | 0679 00-3                       |
| Removal .....  | 0679 00-2                       |
| M8A3/M14   |                                 |
| Air Purifier and Frame   |                                 |
| Installation .....   | 0689 00-3                       |
| Removal .....  | 0689 00-2                       |
| Cables and Switch Assembly                                     |                                 |
| Installation .....   | 0690 00-3                       |
| Removal .....  | 0690 00-2                       |
| Neutral Start Switch   |                                 |
| Clean, Inspect, and Replace .....                              | 0406 00-2                       |
| Installation .....   | 0406 00-2                       |
| Removal .....  | 0406 00-1                       |
| <b>O</b>   |                                 |
| Oil Can Bracket  |                                 |
| Clean, Inspect, and Repair .....                               | 0524 00-1                       |
| Installation .....   | 0524 00-2                       |
| Removal .....  | 0524 00-1                       |

**INDEX, cont'd**

| <u>Subject</u>                                     | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Oil Cooler Hose, Fittings, Differential            |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0360 00-2                       |
| Installation .....                                 | 0360 00-2                       |
| Removal .....                                      | 0360 00-1                       |
| Oil Cooler to Transmission Hose and Fittings       |                                 |
| Clean, Inspect, and Repair .....                   | 0339 00-2                       |
| Installation .....                                 | 0339 00-3                       |
| Removal .....                                      | 0339 00-1                       |
| Oil Filler Cap and Tube                            |                                 |
| Installation .....                                 | 0128 00-3                       |
| Removal .....                                      | 0128 00-2                       |
| Oil Filter and Fittings, Differential              |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0355 00-2                       |
| Installation .....                                 | 0355 00-2                       |
| Removal .....                                      | 0355 00-1                       |
| Oil Filter Element, Differential                   |                                 |
| Installation .....                                 | 0356 00-2                       |
| Removal .....                                      | 0356 00-1                       |
| Oil Filter Pump Hose, Differential                 |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0361 00-2                       |
| Installation .....                                 | 0361 00-2                       |
| Removal .....                                      | 0361 00-1                       |
| Oil Gauge Rod                                      |                                 |
| Installation .....                                 | 0129 00-2                       |
| Removal .....                                      | 0129 00-1                       |
| Oil Level Dipstick, Breather, Differential         |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0357 00-2                       |
| Installation .....                                 | 0357 00-2                       |
| Removal .....                                      | 0357 00-1                       |
| Oil Pump, Differential                             |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0354 00-3                       |
| Installation .....                                 | 0354 00-4                       |
| Removal .....                                      | 0354 00-1                       |
| Oil Seal, Final Drive Pinion                       |                                 |
| Inspect and Repair .....                           | 0351 00-2                       |
| Installation .....                                 | 0351 00-2                       |
| Removal .....                                      | 0351 00-1                       |

INDEX, cont'd

| <u>Subject</u>                     | <u>WP Sequence No.-Page No.</u> |
|------------------------------------|---------------------------------|
| On-Off Switches, Instrument Panel  |                                 |
| Installation .....                 | 0241 00-2                       |
| Removal .....                      | 0241 00-1                       |
| Operator's Seat                    |                                 |
| Assembly .....                     | 0488 00-4                       |
| Disassembly .....                  | 0488 00-3                       |
| Installation .....                 | 0488 00-5                       |
| Removal .....                      | 0488 00-2                       |
| <b>P</b>                           |                                 |
| Pad                                |                                 |
| Cushioning                         |                                 |
| Installation .....                 | 0523 00-2                       |
| Removal .....                      | 0523 00-1                       |
| Tow Cable                          |                                 |
| Installation .....                 | 0420 00-2                       |
| Removal .....                      | 0420 00-1                       |
| Pad, Cushioning, Commander's Hatch |                                 |
| Clean, Inspect, and Repair .....   | 0459 00-1                       |
| Installation .....                 | 0459 00-2                       |
| Removal .....                      | 0459 00-1                       |
| Panel                              |                                 |
| Indicator Light                    |                                 |
| Installation .....                 | 0240 00-2                       |
| Removal .....                      | 0240 00-1                       |
| Warning Light                      |                                 |
| Installation .....                 | 0254 00-2                       |
| Removal .....                      | 0254 00-1                       |
| Panel Assembly, Master Switch      |                                 |
| Early Slave Receptacle             |                                 |
| All Except M577A2 and M1068        |                                 |
| Installation .....                 | 0223 00-3                       |
| Removal .....                      | 0223 00-1                       |
| M577A2 and M1068                   |                                 |
| Installation .....                 | 0224 00-5                       |
| Removal .....                      | 0224 00-1                       |
| Late Slave Receptacle              |                                 |
| Installation .....                 | 0222 00-3                       |
| Removal .....                      | 0222 00-1                       |
| Pawl, Brake Locking                |                                 |
| Adjustment .....                   | 0388 00-1                       |
| Periscope Mounting Bracket         |                                 |
| Installation .....                 | 0546 00-3                       |
| Removal .....                      | 0546 00-2                       |

INDEX, cont'd

| <u>Subject</u>                                | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Personnel Heater                              |                                 |
| Air Intake and Exhaust Pipes                  |                                 |
| All Except M1064                              |                                 |
| Installation .....                            | 0622 00-3                       |
| Removal .....                                 | 0622 00-2                       |
| M1064 Only                                    |                                 |
| Installation .....                            | 0623 00-2                       |
| Removal .....                                 | 0623 00-1                       |
| All Except M1064                              |                                 |
| Installation .....                            | 0619 00-5                       |
| Removal .....                                 | 0619 00-2                       |
| Control Box                                   |                                 |
| Assembly .....                                | 0614 00-5                       |
| Disassembly .....                             | 0614 00-1                       |
| Installation .....                            | 0613 00-2                       |
| Removal .....                                 | 0613 00-1                       |
| Repair or Replacement .....                   | 0614 00-4                       |
| Duct  |                                 |
| Assembly .....                                | 0618 00-2                       |
| Disassembly .....                             | 0618 00-1                       |
| Duct and Hoses                                |                                 |
| Installation .....                            | 0617 00-3                       |
| Removal .....                                 | 0617 00-2                       |
| Fuel Filter                                   |                                 |
| Cleaning, Inspection, and Repair .....        | 0598 00-3                       |
| Installation .....                            | 0598 00-4                       |
| Removal .....                                 | 0598 00-2                       |
| Fuel Filter, Hose, Tube, Fittings, and Shield |                                 |
| M1068 Only                                    |                                 |
| Installation .....                            | 0612 00-4                       |
| Removal .....                                 | 0612 00-2                       |
| M577A2 Only                                   |                                 |
| Installation .....                            | 0611 00-4                       |
| Removal .....                                 | 0611 00-2                       |
| Fuel Filter, Hoses, and Fittings (M1064 Only) |                                 |
| Installation .....                            | 0609 00-4                       |
| Removal .....                                 | 0609 00-1                       |
| Fuel Filter/Bracket                           |                                 |
| Installation .....                            | 0616 00-3                       |
| Removal .....                                 | 0616 00-2                       |
| Fuel Pump                                     |                                 |
| M1064 Only                                    |                                 |
| Installation .....                            | 0601 00-3                       |
| Removal .....                                 | 0601 00-2                       |
| M113A2 and M1059                              |                                 |
| Installation .....                            | 0600 00-3                       |
| Removal .....                                 | 0600 00-1                       |
| M577A2 and M1068                              |                                 |
| Installation .....                            | 0602 00-3                       |
| Removal .....                                 | 0602 00-2                       |

INDEX, cont'd

| <u>Subject</u>                                     | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Fuel Supply Hoses                                  |                                 |
| Installation .....                                 | 0603 00-4                       |
| Removal .....                                      | 0603 00-2                       |
| Hose, Fuel Tank to Fuel Pump                       |                                 |
| Installation .....                                 | 0610 00-3                       |
| Removal .....                                      | 0610 00-2                       |
| M1064 Only   |                                 |
| Installation .....                                 | 0621 00-4                       |
| Removal .....                                      | 0621 00-2                       |
| Repair .....                                       | 0620 00-1                       |
| Personnel Seat                                     |                                 |
| Backrest, Cushions, and Straps                     |                                 |
| M1064 Only   |                                 |
| Installation .....                                 | 0497 00-3                       |
| Removal .....                                      | 0497 00-2                       |
| M113A2 Only  |                                 |
| Installation .....                                 | 0495 00-3                       |
| Removal .....                                      | 0495 00-2                       |
| Cushions and Belts (M577A2 Only)                   |                                 |
| Installation .....                                 | 0496 00-3                       |
| Removal .....                                      | 0496 00-2                       |
| Pin, Shock Absorber                                |                                 |
| Installation .....                                 | 0380 00-2                       |
| Removal .....                                      | 0380 00-1                       |
| Pivot Steer  |                                 |
| Bellcranks   |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0411 00-2                       |
| Installation .....                                 | 0411 00-3                       |
| Removal .....                                      | 0411 00-1                       |
| Brackets   |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0411 00-2                       |
| Installation .....                                 | 0411 00-3                       |
| Removal .....                                      | 0411 00-1                       |
| Linkage  |                                 |
| Adjustment .....                                   | 0415 00-1                       |
| Pivot Steer Brake                                  |                                 |
| Disk   |                                 |
| Installation .....                                 | 0414 00-2                       |
| Removal .....                                      | 0414 00-1                       |
| Hoses, Tubes, and Fittings                         |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0413 00-3                       |
| Installation .....                                 | 0413 00-4                       |
| Removal .....                                      | 0413 00-2                       |

**INDEX, cont'd**

| <u>Subject</u>                                     | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Pivot Steer Handles, Links                         |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0410 00-2                       |
| Installation .....                                 | 0410 00-3                       |
| Removal .....                                      | 0410 00-1                       |
| Pivot Steer Master Cylinders, Hoses                |                                 |
| Installation .....                                 | 0412 00-2                       |
| Removal .....                                      | 0412 00-1                       |
| Pivot Steer System                                 |                                 |
| Servicing .....                                    | 0409 00-1                       |
| Test and Inspection .....                          | 0409 00-2                       |
| Plates, Rear Tiedown                               |                                 |
| Installation .....                                 | 0417 00-2                       |
| Removal .....                                      | 0417 00-1                       |
| Platform, Commander's                              |                                 |
| Assembly .....                                     | 0491 00-3                       |
| Clean, Inspect,and Repair .....                    | 0491 00-3                       |
| Disassembly .....                                  | 0491 00-2                       |
| Installation .....                                 | 0491 00-5                       |
| Removal .....                                      | 0491 00-1                       |
| Plug, Final Drive Drain                            |                                 |
| Installation .....                                 | 0435 00-2                       |
| Removal .....                                      | 0435 00-1                       |
| Poppet Valves, Hull                                |                                 |
| Installation .....                                 | 0435 00-2                       |
| Removal .....                                      | 0435 00-1                       |
| Portable Fire Extinguisher Mount                   |                                 |
| All Except M1068                                   |                                 |
| Installation .....                                 | 0770 00-3                       |
| Removal .....                                      | 0770 00-2                       |
| M1068 Only   |                                 |
| Assembly .....                                     | 0772 00-4                       |
| Disassembly .....                                  | 0772 00-3                       |
| Installation .....                                 | 0772 00-5                       |
| Removal .....                                      | 0772 00-2                       |
| Post   |                                 |
| Commander's Platform                               |                                 |
| M577A2 and M1068                                   |                                 |
| Assembly .....                                     | 0492 00-4                       |
| Disassembly .....                                  | 0492 00-3                       |
| Inspection-Acceptance and Rejection Criteria ..... | 0492 00-3                       |
| Installation .....                                 | 0492 00-5                       |
| Removal .....                                      | 0492 00-2                       |

INDEX, cont'd

| <u>Subject</u>                         | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| M1059 Only                             |                                 |
| Installation .....                     | 0485 00-2                       |
| Removal .....                          | 0485 00-1                       |
| Post Assembly                          |                                 |
| Assembly .....                         | 0661 00-2                       |
| Cleaning, Inspection, and Repair ..... | 0661 00-2                       |
| Disassembly .....                      | 0661 00-1                       |
| Installation .....                     | 0660 00-2                       |
| Removal .....                          | 0660 00-1                       |
| Post Assembly, Driver's Seat           |                                 |
| Assembly .....                         | 0483 00-5                       |
| Clean, Inspect, and Repair .....       | 0483 00-5                       |
| Disassembly .....                      | 0483 00-3                       |
| Installation .....                     | 0483 00-8                       |
| Removal .....                          | 0483 00-2                       |
| Power Cable, Intervehicle              |                                 |
| Assembly .....                         | 0315 00-2                       |
| Disassembly .....                      | 0315 00-1                       |
| Power Disconnect                       |                                 |
| Adjustment .....                       | 0408 00-3                       |
| Installation .....                     | 0408 00-2                       |
| Removal .....                          | 0408 00-1                       |
| Power Distribution Box A3              |                                 |
| Assembly .....                         | 0736 00-3                       |
| Disassembly .....                      | 0736 00-2                       |
| Installation .....                     | 0736 00-4                       |
| Removal .....                          | 0736 00-1                       |
| Power Plant                            |                                 |
| Bottom Access Cover                    |                                 |
| Clean, Inspect, and Repair .....       | 0434 00-3                       |
| Installation .....                     | 0434 00-3                       |
| Removal .....                          | 0434 00-2                       |
| Driver's Access Panel                  |                                 |
| Installation .....                     | 0430 00-2                       |
| Removal .....                          | 0430 00-1                       |
| Grill Support Arm                      |                                 |
| Installation .....                     | 0442 00-2                       |
| Removal .....                          | 0442 00-1                       |
| Rear Access Panel                      |                                 |
| M1059 Only                             |                                 |
| Installation .....                     | 0432 00-3                       |
| Removal .....                          | 0432 00-2                       |
| M113A2 and M901A1                      |                                 |
| Installation .....                     | 0431 00-2                       |
| Removal .....                          | 0431 00-1                       |

INDEX, cont'd

| <u>Subject</u>  | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| M577A2, M1068, and M1064  |                                 |
| Installation .....  | 0433 00-2                       |
| Removal .....   | 0433 00-1                       |
| Power Plant Assembly  |                                 |
| Installation .....  | 0131 00-11                      |
| Removal .....   | 0131 00-1                       |
| Power Plant Door  |                                 |
| Adjustment .....  | 0428 00-4                       |
| Assembly .....  | 0428 00-3                       |
| Disassembly .....   | 0428 00-2                       |
| Installation .....  | 0427 00-3                       |
| Removal .....   | 0427 00-1                       |
| Power Plant Door Combat Lock  |                                 |
| Installation .....  | 0426 00-2                       |
| Removal .....   | 0426 00-1                       |
| Power Plant Grill   |                                 |
| Lower Grill .....   | 0130 00-11                      |
| Raise Grill .....   | 0130 00-2                       |
| Power Plant Wiring Harness  |                                 |
| Installation .....  | 0321 00-5                       |
| Removal .....   | 0321 00-1                       |
| Power Supply  |                                 |
| Solid State Infrared  |                                 |
| Installation .....  | 0293 00-3                       |
| Removal .....   | 0293 00-1                       |
| Test and Inspection .....   | 0293 00-2                       |
| Tube Type Infrared  |                                 |
| Installation .....  | 0291 00-3                       |
| Removal .....   | 0291 00-1                       |
| Test and Inspection .....   | 0291 00-2                       |
| Power Supply Shock Mount Brackets, Infrared   |                                 |
| Installation .....  | 0292 00-2                       |
| Removal .....   | 0292 00-1                       |
| Test and Inspection .....   | 0292 00-1                       |
| Preventive Maintenance Checks and Services (PMCS), Including Lubrication Instructions |                                 |
| Annual .....  | 0120 00-151                     |
| Explanation of PMCS Table Entries .....   | 0120 00-13                      |
| General Maintenance Instructions .....  | 0120 00-2                       |
| Lubrication Tables .....  | 0120 00-13                      |
| Maintenance Forms and Records .....   | 0120 00-1                       |
| PMCS Procedures .....   | 0120 00-2                       |
| Scope .....   | 0120 00-1                       |
| Semi-Annual .....   | 0120 00-20                      |
| Warnings and Cautions .....   | 0120 00-1                       |



INDEX, cont'd

| <u>Subject</u>  | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Primary Fuel Filter Assembly  |                                 |
| Installation .....  | 0172 00-3                       |
| Removal .....   | 0172 00-1                       |
| Primary Fuel Filter to Engine Fuel Pump Hose                        |                                 |
| Installation .....  | 0164 00-3                       |
| Removal .....   | 0164 00-1                       |
| Pulley Drive Shaft, Bearing, and Housing                            |                                 |
| Installation .....  | 0217 00-2                       |
| Removal .....   | 0217 00-1                       |
| Pump  |                                 |
| Coolant Heater  |                                 |
| Installation .....  | 0652 00-2                       |
| Removal .....   | 0652 00-1                       |
| Engine Coolant  |                                 |
| Installation .....  | 0197 00-2                       |
| Removal .....   | 0197 00-1                       |
| Hydraulic, Ramp   |                                 |
| Installation .....  | 0588 00-3                       |
| Removal .....   | 0588 00-2                       |
| <b>Q</b>  |                                 |
| Quick Disconnect and Ramp Control Valve Tube to Bulkhead Connection |                                 |
| Installation .....  | 0587 00-4                       |
| Removal .....   | 0587 00-2                       |
| <b>R</b>  |                                 |
| Rack  |                                 |
| Ammunition Stowage  |                                 |
| Installation .....  | 0547 00-2                       |
| Removal .....   | 0547 00-1                       |
| Horizontal Ammunition   |                                 |
| Assembly .....  | 0508 00-4                       |
| Cleaning .....  | 0508 00-4                       |
| Disassembly .....   | 0508 00-2                       |
| Inspection and Repair .....   | 0508 00-4                       |
| Installation .....  | 0507 00-3                       |
| Removal .....   | 0507 00-2                       |
| Missile   |                                 |
| Assembly .....  | 0548 00-4                       |
| Clean, Inspect, and Repair .....                                    | 0548 00-3                       |
| Disassembly .....   | 0548 00-3                       |
| Installation .....  | 0548 00-4                       |
| Removal .....   | 0548 00-2                       |
| Radio Stowage   |                                 |
| Installation .....  | 0539 00-2                       |
| Removal .....   | 0539 00-1                       |

INDEX, cont'd

| <u>Subject</u>  | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Radio Stowage, Left Bulkhead                                  |                                 |
| Installation .....  | 0533 00-3                       |
| Removal .....   | 0533 00-2                       |
| Radio Stowage, Right Front                                    |                                 |
| Installation .....  | 0529 00-2                       |
| Removal .....   | 0529 00-1                       |
| Vertical Ammunition   |                                 |
| Installation .....  | 0506 00-3                       |
| Removal .....   | 0506 00-2                       |
| <br>Rack Base, Right Side                                     |                                 |
| Installation .....  | 0531 00-3                       |
| Removal .....   | 0531 00-2                       |
| <br>Radic Wiring Harness                                      |                                 |
| Installation .....  | 0334 00-2                       |
| Removal .....   | 0334 00-1                       |
| <br>Radiator  |                                 |
| Access Door   |                                 |
| Assembly .....  | 0205 00-2                       |
| Disassembly .....   | 0205 00-1                       |
| Access Door Seals and Fasteners                               |                                 |
| Installation .....  | 0204 00-3                       |
| Removal .....   | 0204 00-1                       |
| Repair .....  | 0204 00-2                       |
| Cleaning .....  | 0195 00-1                       |
| <br>Radiator and Parts  |                                 |
| Installation .....  | 0202 00-4                       |
| Removal .....   | 0202 00-1                       |
| <br>Radiator Outlet Elbow to Coolant Pump Elbow Hose and Tube |                                 |
| Installation .....  | 0199 00-2                       |
| Removal .....   | 0199 00-1                       |
| <br>Radio Operator's Seat                                     |                                 |
| Assembly .....  | 0489 00-4                       |
| Disassembly .....   | 0489 00-2                       |
| Installation .....  | 0489 00-6                       |
| Removal .....   | 0489 00-1                       |
| <br>Radio Stowage Rack  |                                 |
| Left Bulkhead   |                                 |
| Installation .....  | 0533 00-3                       |
| Removal .....   | 0533 00-2                       |
| Right Front   |                                 |
| Installation .....  | 0529 00-2                       |
| Removal .....   | 0529 00-1                       |

INDEX, cont'd

| <u>Subject</u>                            | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Ramp                                      |                                 |
| Control Valve and Fittings                |                                 |
| Installation .....                        | 0589 00-4                       |
| Removal .....                             | 0589 00-2                       |
| Cylinder                                  |                                 |
| Cleaning .....                            | 0593 00-2                       |
| Installation .....                        | 0593 00-2                       |
| Removal .....                             | 0593 00-1                       |
| Cylinder Breather Hose                    |                                 |
| All Except M1064                          |                                 |
| Installation .....                        | 0591 00-2                       |
| Removal .....                             | 0591 00-1                       |
| M1064 Only                                |                                 |
| Installation .....                        | 0592 00-2                       |
| Removal .....                             | 0592 00-1                       |
| Hose, Bulkhead to Cylinder                |                                 |
| Installation .....                        | 0590 00-3                       |
| Removal .....                             | 0590 00-2                       |
| Hydraulic Pump                            |                                 |
| Installation .....                        | 0588 00-3                       |
| Removal .....                             | 0588 00-2                       |
| Inoperable/Unsafe                         |                                 |
| Lower Inoperable/Unsafe Ramp .....        | 0579 00-8                       |
| Raise Inoperable/Unsafe Ramp .....        | 0579 00-1                       |
| Linkage                                   |                                 |
| M1064 Only                                |                                 |
| Clean, Inspect, and Repair .....          | 0560 00-3                       |
| Installation .....                        | 0560 00-3                       |
| Removal .....                             | 0560 00-1                       |
| M113A2, M901A1, and M1059                 |                                 |
| Installation .....                        | 0558 00-4                       |
| Removal .....                             | 0558 00-2                       |
| M577A2 and M1068                          |                                 |
| Clean, Inspect, and Repair .....          | 0563 00-3                       |
| Installation .....                        | 0563 00-4                       |
| Removal .....                             | 0563 00-2                       |
| Ramp Access Door, Stop Bracket            |                                 |
| Installation .....                        | 0573 00-2                       |
| Removal .....                             | 0573 00-1                       |
| Ramp Bracket                              |                                 |
| Installation .....                        | 0572 00-2                       |
| Removal .....                             | 0572 00-2                       |
| Ramp Control Valve to Hydraulic Tank Hose |                                 |
| Installation .....                        | 0583 00-3                       |
| Removal .....                             | 0583 00-2                       |

INDEX, cont'd

| <u>Subject</u>                       | <u>WP Sequence No.-Page No.</u> |
|--------------------------------------|---------------------------------|
| Ramp Door                            |                                 |
| Handles                              |                                 |
| Adjustment . . . . .                 | 0569 00-3                       |
| Installation . . . . .               | 0569 00-2                       |
| Removal . . . . .                    | 0569 00-1                       |
| Hook                                 |                                 |
| All Except M981 and M1064            |                                 |
| Clean, Inspect, and Repair . . . . . | 0568 00-2                       |
| Installation . . . . .               | 0568 00-3                       |
| Removal . . . . .                    | 0568 00-2                       |
| M981 and M1064                       |                                 |
| Installation . . . . .               | 0567 00-2                       |
| Removal . . . . .                    | 0567 00-1                       |
| Shaft                                |                                 |
| Adjustment . . . . .                 | 0569 00-3                       |
| Installation . . . . .               | 0569 00-2                       |
| Removal . . . . .                    | 0569 00-1                       |
| Spring                               |                                 |
| All Except M981 and M1064            |                                 |
| Clean, Inspect, and Repair . . . . . | 0568 00-2                       |
| Installation . . . . .               | 0568 00-3                       |
| Removal . . . . .                    | 0568 00-2                       |
| M981 and M1064                       |                                 |
| Installation . . . . .               | 0567 00-2                       |
| Removal . . . . .                    | 0567 00-1                       |
| Switch And Mount                     |                                 |
| Adjustment . . . . .                 | 0283 00-3                       |
| Clean, Inspect, and Repair . . . . . | 0283 00-2                       |
| Installation . . . . .               | 0283 00-2                       |
| Removal . . . . .                    | 0283 00-1                       |
| Ramp Door Seal                       |                                 |
| Installation . . . . .               | 0566 00-3                       |
| Removal . . . . .                    | 0566 00-1                       |
| Ramp Drain Plugs                     |                                 |
| Installation . . . . .               | 0574 00-2                       |
| Removal . . . . .                    | 0574 00-1                       |
| Ramp Lock                            |                                 |
| Adjustment                           |                                 |
| M1064 Only . . . . .                 | 0559 00-2                       |
| M113A2, M901A1, and M1059 . . . . .  | 0556 00-3                       |
| M577A2 and M1068 . . . . .           | 0561 00-1                       |
| Handle and Arms                      |                                 |
| Installation . . . . .               | 0557 00-3                       |
| Removal . . . . .                    | 0557 00-2                       |
| Lever and Cable                      |                                 |
| Clean, Inspect, and Repair . . . . . | 0562 00-2                       |
| Installation . . . . .               | 0562 00-3                       |
| Removal . . . . .                    | 0562 00-1                       |
| Lock Test . . . . .                  | 0556 00-1                       |
| Seal Test . . . . .                  | 0556 00-2                       |

INDEX, cont'd

| <u>Subject</u>                                     | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Ramp Pump  |                                 |
| Hydraulic Tank Strainer Tube                       |                                 |
| Clean, Inspect, and Repair .....                   | 0580 00-3                       |
| Installation .....                                 | 0580 00-3                       |
| Removal .....                                      | 0580 00-2                       |
| Pressure Relief Valve Hose                         |                                 |
| Clean, Inspect, and Repair .....                   | 0581 00-3                       |
| Installation .....                                 | 0581 00-3                       |
| Removal .....                                      | 0581 00-2                       |
| Ramp Seal  |                                 |
| Installation .....                                 | 0570 00-2                       |
| Removal .....                                      | 0570 00-1                       |
| Ramp Vision Port and Shield                        |                                 |
| Installation .....                                 | 0571 00-2                       |
| Removal .....                                      | 0571 00-1                       |
| Range Selector                                     |                                 |
| Assembly .....                                     | 0405 00-4                       |
| Clean, Inspect, and Repair .....                   | 0405 00-3                       |
| Disassembly .....                                  | 0405 00-1                       |
| Installation .....                                 | 0404 00-2                       |
| Removal .....                                      | 0404 00-1                       |
| Range Selector Linkage                             |                                 |
| Adjustment .....                                   | 0407 00-4                       |
| Clean, Inspect, and Repair .....                   | 0407 00-2                       |
| Installation .....                                 | 0407 00-3                       |
| Removal .....                                      | 0407 00-1                       |
| Rear Access Panel                                  |                                 |
| Power Plant  |                                 |
| M1059 Only   |                                 |
| Installation .....                                 | 0432 00-3                       |
| Removal .....                                      | 0432 00-2                       |
| M113A2 and M901A1                                  |                                 |
| Installation .....                                 | 0431 00-2                       |
| Removal .....                                      | 0431 00-1                       |
| M577A2, M1068, and M1064                           |                                 |
| Installation .....                                 | 0433 00-2                       |
| Removal .....                                      | 0433 00-1                       |
| Rear Bilge Pump                                    |                                 |
| Pipes  |                                 |
| Installation .....                                 | 0326 00-2                       |
| Removal .....                                      | 0326 00-1                       |
| Strainer   |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0325 00-3                       |
| Installation .....                                 | 0325 00-4                       |
| Removal .....                                      | 0325 00-1                       |

INDEX, cont'd

| <u>Subject</u>                                     | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Rear Compartment Air Ventilator                    |                                 |
| Installation .....                                 | 0471 00-3                       |
| Removal .....                                      | 0471 00-2                       |
| Rear Dome Light Switch                             |                                 |
| Installation .....                                 | 0279 00-2                       |
| Removal .....                                      | 0279 00-1                       |
| Rear Gun Pintle Socket                             |                                 |
| Installation .....                                 | 0666 00-2                       |
| Removal .....                                      | 0666 00-1                       |
| Rear Tiedown Plates                                |                                 |
| Installation .....                                 | 0417 00-2                       |
| Removal .....                                      | 0417 00-1                       |
| Rear Utility Outlet Receptacle                     |                                 |
| Inseption-Acceptance and Rejection Criteria .....  | 0332 00-2                       |
| Installation .....                                 | 0332 00-2                       |
| Removal .....                                      | 0332 00-1                       |
| Rear Utility Receptacle Circuit Breakers           |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0333 00-2                       |
| Installation .....                                 | 0333 00-2                       |
| Removal .....                                      | 0333 00-1                       |
| Receptacle   |                                 |
| Auxiliary Power (Slave)                            |                                 |
| All Except M577A2 and M1068                        |                                 |
| Installation .....                                 | 0218 00-4                       |
| Removal .....                                      | 0218 00-1                       |
| M577A2 and M1068                                   |                                 |
| Installation .....                                 | 0219 00-4                       |
| Removal .....                                      | 0219 00-1                       |
| NATO Auxiliary Power (Slave)                       |                                 |
| Installation .....                                 | 0220 00-3                       |
| Removal .....                                      | 0220 00-2                       |
| Receptacle, Repair                                 |                                 |
| Assembly .....                                     | 0313 00-2                       |
| Clean, Inspect, and Repair .....                   | 0313 00-2                       |
| Disassembly .....                                  | 0313 00-1                       |
| Reel Holder Assembly, Cable                        |                                 |
| Assembly .....                                     | 0510 00-2                       |
| Disassembly .....                                  | 0510 00-1                       |
| Installation .....                                 | 0509 00-2                       |
| Removal .....                                      | 0509 00-1                       |

INDEX, cont'd

| <u>Subject</u>   | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| References   |                                 |
| Field Manuals . . . . .                                  | 0778 00-2                       |
| Forms . . . . .  | 0778 00-3                       |
| Lubrication Orders . . . . .                             | 0778 00-2                       |
| Military Specifications . . . . .                        | 0778 00-3                       |
| Other Publications . . . . .                             | 0778 00-2                       |
| Scope . . . . .  | 0778 00-1                       |
| Technical Manuals . . . . .                              | 0778 00-1                       |
| Regulator, Voltage                                       |                                 |
| Adjustment . . . . .                                     | 0229 00-1                       |
| Installation . . . . .                                   | 0230 00-3                       |
| Removal . . . . .  | 0230 00-1                       |
| Repair or Replacement . . . . .                          | 0230 00-2                       |
| Relief Valve Tee to Quick Disconnect Hose                |                                 |
| Installation . . . . .                                   | 0582 00-3                       |
| Removal . . . . .  | 0582 00-1                       |
| Repair Parts, Special Tools, TMDE, and Support Equipment |                                 |
| Common Tools and Equipment . . . . .                     | 0004 00-1                       |
| Repair Parts . . . . .                                   | 0004 00-1                       |
| Special Tools, TMDE, and Support Equipment . . . . .     | 0004 00-1                       |
| Resilient Mount, Transfer Gearcase                       |                                 |
| Clean, Inspect, and Repair . . . . .                     | 0342 00-2                       |
| Installation . . . . .                                   | 0342 00-2                       |
| Removal . . . . .  | 0342 00-1                       |
| Rifle Brackets   |                                 |
| Installation . . . . .                                   | 0525 00-2                       |
| Removal . . . . .  | 0525 00-1                       |
| Rifle Rack   |                                 |
| Installation . . . . .                                   | 0493 00-2                       |
| Removal . . . . .  | 0493 00-1                       |
| Right Equipment Rack, Brackets and Mounts                |                                 |
| Installation . . . . .                                   | 0718 00-2                       |
| Removal . . . . .  | 0718 00-1                       |
| Right Final Drive Shaft                                  |                                 |
| Installation . . . . .                                   | 0349 00-2                       |
| Removal . . . . .  | 0349 00-1                       |
| Road Wheel   |                                 |
| Hub  |                                 |
| Clean, Inspect, and Replace . . . . .                    | 0373 00-2                       |
| Installation . . . . .                                   | 0373 00-2                       |
| Removal . . . . .  | 0373 00-1                       |

INDEX, cont'd

| <u>Subject</u>                                   | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Support Arm, Bearings, and Seals                 |                                 |
| Clean, Inspect, and Replace .....                | 0374 00-3                       |
| Installation .....                               | 0374 00-3                       |
| Removal .....                                    | 0374 00-1                       |
| T130   |                                 |
| Installation .....                               | 0371 00-3                       |
| Removal .....                                    | 0371 00-1                       |
| T150   |                                 |
| Inspection .....                                 | 0372 00-1                       |
| Installation .....                               | 0372 00-4                       |
| Removal .....                                    | 0372 00-1                       |
| <br><b>S</b><br>                                 |                                 |
| Schematic  |                                 |
| 100 Amp Engine Charging System .....             | 0024 00-1                       |
| 200 Amp Engine Charging System .....             | 0025 00-1                       |
| 200 Amp Engine Charging System (M981 Only) ..... | 0026 00-1                       |
| Air Box Heater System .....                      | 0017 00-1                       |
| Bilge Pump System .....                          | 0068 00-1                       |
| Chemical Agent Auto Alarm .....                  | 0098 00-1                       |
| Electrical (M577A2 Only) .....                   | 0056 00-1                       |
| Electrical (M981 Only) .....                     | 0057 00-1                       |
| Electrical System .....                          | 0055 00-1                       |
| Engine Fuel System .....                         | 0015 00-1                       |
| Indicators .....                                 | 0054 00-1                       |
| Ramp .....                                       | 0065 00-1                       |
| Starting System .....                            | 0016 00-1                       |
| Seal   |                                 |
| Idler Wheel Arm                                  |                                 |
| Clean, Inspect, and Replace .....                | 0376 00-2                       |
| Installation .....                               | 0376 00-2                       |
| Removal .....                                    | 0376 00-1                       |
| Ramp   |                                 |
| Installation .....                               | 0570 00-2                       |
| Removal .....                                    | 0570 00-1                       |
| Ramp Door  |                                 |
| Installation .....                               | 0566 00-3                       |
| Removal .....                                    | 0566 00-1                       |
| Seat   |                                 |
| Commander's                                      |                                 |
| Jump   |                                 |
| Installation .....                               | 0490 00-4                       |
| Removal .....                                    | 0490 00-2                       |
| M1068 Only                                       |                                 |
| Assembly .....                                   | 0486 00-4                       |
| Disassembly .....                                | 0486 00-2                       |
| Installation .....                               | 0486 00-6                       |
| Removal .....                                    | 0486 00-1                       |



INDEX, cont'd

| <u>Subject</u>  | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| M113A2, M1059, and M1064                              |                                 |
| Assembly .....  | 0487 00-5                       |
| Clean, Inspect, and Repair .....                      | 0487 00-4                       |
| Disassembly .....                                     | 0487 00-1                       |
| M901A1 Only   |                                 |
| Installation .....                                    | 0494 00-2                       |
| Removal .....   | 0494 00-1                       |
| Crew  |                                 |
| Installation .....                                    | 0498 00-2                       |
| Removal .....   | 0498 00-1                       |
| Driver's  |                                 |
| Assembly .....  | 0479 00-3                       |
| Disassembly .....                                     | 0479 00-2                       |
| Installation .....                                    | 0478 00-2                       |
| Removal .....   | 0478 00-1                       |
| Operator's  |                                 |
| Assembly .....  | 0488 00-4                       |
| Disassembly .....                                     | 0488 00-3                       |
| Installation .....                                    | 0488 00-5                       |
| Removal .....   | 0488 00-2                       |
| Personnel   |                                 |
| M1064 Only  |                                 |
| Installation .....                                    | 0497 00-3                       |
| Removal .....   | 0497 00-2                       |
| M577A2 Only   |                                 |
| Installation .....                                    | 0496 00-3                       |
| Removal .....   | 0496 00-2                       |
| Radio Operator's                                      |                                 |
| Assembly .....  | 0489 00-4                       |
| Disassembly .....                                     | 0489 00-2                       |
| Installation .....                                    | 0489 00-6                       |
| Removal .....   | 0489 00-1                       |
| Seat and Post, Commander's                            |                                 |
| All Except M1064                                      |                                 |
| Installation .....                                    | 0484 00-3                       |
| Removal .....   | 0484 00-1                       |
| M1064 Only  |                                 |
| Installation .....                                    | 0485 00-2                       |
| Removal .....   | 0485 00-1                       |
| Secondary Fuel Filter Assembly                        |                                 |
| Installation .....                                    | 0173 00-3                       |
| Removal .....   | 0173 00-1                       |
| Secondary Fuel Filter to Left Cylinder Head Fuel Hose |                                 |
| Installation .....                                    | 0166 00-3                       |
| Removal .....   | 0166 00-1                       |

**INDEX, cont'd**

| <u>Subject</u>  | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| <b>Service and Infrared Headlights</b>                      |                                 |
| Assembly .....  | 0257 00-2                       |
| Clean, Inspect, and Repair .....                            | 0257 00-2                       |
| Disassembly .....   | 0257 00-1                       |
| Installation .....  | 0256 00-2                       |
| Removal .....   | 0256 00-1                       |
| <b>Service Upon Receipt</b> .....                           |                                 |
| Administrative Storage .....                                | 0119 00-3                       |
| General Instructions .....                                  | 0119 00-1                       |
| Preliminary Checks and Adjustments .....                    | 0119 00-1                       |
| Specific Deprocessing Procedures .....                      | 0119 00-2                       |
| <b>Shelf Assembly, Right Side</b>                           |                                 |
| Installation .....  | 0530 00-3                       |
| Removal .....   | 0530 00-2                       |
| <b>Shelf, Equipment Stowage</b>                             |                                 |
| Installation .....  | 0503 00-2                       |
| Removal .....   | 0503 00-1                       |
| <b>Shock Absorber</b>                                       |                                 |
| Installation .....  | 0379 00-3                       |
| Mount   |                                 |
| Installation .....  | 0381 00-2                       |
| Removal .....   | 0381 00-1                       |
| Pin   |                                 |
| Installation .....  | 0380 00-2                       |
| Removal .....   | 0380 00-1                       |
| Removal .....   | 0379 00-1                       |
| <b>Shock Mount Brackets, Power Supply, Infrared</b>         |                                 |
| Installation .....  | 0292 00-2                       |
| Removal .....   | 0292 00-1                       |
| Test and Inspection .....                                   | 0292 00-1                       |
| <b>Side Armor</b>   |                                 |
| Installation .....  | 0474 00-2                       |
| Removal .....   | 0474 00-1                       |
| <b>Smoke Generator Equipment</b>                            |                                 |
| Adapter Access Plate and Gasket                             |                                 |
| Installation .....  | 0708 00-3                       |
| Removal .....   | 0708 00-1                       |
| Adapter Access Plate to Cover Assembly Air Hose             |                                 |
| Installation .....  | 0710 00-3                       |
| Removal .....   | 0710 00-2                       |
| Adapter Access Plate to Generator Electrical Cable Assembly |                                 |
| Installation .....  | 0703 00-3                       |
| Removal .....   | 0703 00-2                       |

INDEX, cont'd

| <u>Subject</u>   | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Air Compressor Assembly  |                                 |
| Installation .....   | 0704 00-3                       |
| Removal .....  | 0704 00-2                       |
| Air Compressor Electrical Cable Assembly                             |                                 |
| Installation .....   | 0700 00-3                       |
| Removal .....  | 0700 00-2                       |
| Armor  |                                 |
| Installation .....   | 0713 00-3                       |
| Removal .....  | 0713 00-2                       |
| Breather Hose Assembly   |                                 |
| Installation .....   | 0696 00-2                       |
| Removal .....  | 0696 00-1                       |
| Compressor Reservoir to Adapter Access Plate Air Hose                |                                 |
| Installation .....   | 0709 00-3                       |
| Removal .....  | 0709 00-2                       |
| Control Panel Assembly   |                                 |
| Installation .....   | 0698 00-3                       |
| Removal .....  | 0698 00-2                       |
| Cover Assembly Fog Oil Quick Disconnect to Adapter Access Plate Hose |                                 |
| Installation .....   | 0712 00-3                       |
| Removal .....  | 0712 00-2                       |
| Fog Oil Pump Assembly  |                                 |
| Installation .....   | 0705 00-3                       |
| Removal .....  | 0705 00-1                       |
| Fog Oil Pump Electrical Cable Assembly                               |                                 |
| Installation .....   | 0701 00-3                       |
| Removal .....  | 0701 00-2                       |
| Fog Oil Tank Module  |                                 |
| Installation .....   | 0695 00-5                       |
| Removal .....  | 0695 00-2                       |
| Fog Oil Tank Quick Disconnect to Adapter Access Plate                |                                 |
| Installation .....   | 0711 00-3                       |
| Removal .....  | 0711 00-2                       |
| Fuel Can Lid Assembly  |                                 |
| Installation .....   | 0706 00-3                       |
| Removal .....  | 0706 00-2                       |
| Fuel Filter/Water Separator  |                                 |
| Installation .....   | 0715 00-3                       |
| Removal .....  | 0715 00-1                       |
| Repair .....   | 0715 00-2                       |
| Fuel Lines and Guards  |                                 |
| Installation .....   | 0707 00-3                       |
| Removal .....  | 0707 00-2                       |
| Generator Assembly and Support Bracket                               |                                 |
| Installation .....   | 0697 00-5                       |
| Removal .....  | 0697 00-2                       |
| Generator Internal Cable Assembly                                    |                                 |
| Installation .....   | 0702 00-3                       |
| Removal .....  | 0702 00-2                       |
| Glow Plug Cable Assembly   |                                 |
| Installation .....   | 0714 00-4                       |
| Removal .....  | 0714 00-1                       |

INDEX, cont'd

| <u>Subject</u>                                     | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Power Supply Cable Assembly                        |                                 |
| Installation .....                                 | 0699 00-3                       |
| Removal .....                                      | 0699 00-1                       |
| Smoke Grenade Launcher, Guard, Plate, and Base     |                                 |
| Installation .....                                 | 0576 00-2                       |
| Removal .....                                      | 0576 00-1                       |
| Socket Identification, Multiple Pin                |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0311 00-1                       |
| Spacer, Traversing Unit Mount                      |                                 |
| Installation .....                                 | 0552 00-2                       |
| Removal .....                                      | 0552 00-1                       |
| Spare IR (M19) Periscope Stowage Box               |                                 |
| Installation .....                                 | 0526 00-2                       |
| Removal .....                                      | 0526 00-1                       |
| Speedometer  |                                 |
| Cable  |                                 |
| Assembly .....                                     | 0249 00-2                       |
| Disassembly .....                                  | 0249 00-1                       |
| Cable and Adapter                                  |                                 |
| Installation .....                                 | 0248 00-2                       |
| Removal .....                                      | 0248 00-1                       |
| Installation .....                                 | 0247 00-2                       |
| Removal .....                                      | 0247 00-1                       |
| Sprocket Wheel and Track Assemblies (T150)         |                                 |
| Assembly .....                                     | 0384 00-2                       |
| Disassembly .....                                  | 0384 00-1                       |
| Installation .....                                 | 0383 00-2                       |
| Removal .....                                      | 0383 00-1                       |
| Sprocket Wheel Assembly (T130)                     |                                 |
| Clean, Inspect, and Replace .....                  | 0382 00-2                       |
| Installation .....                                 | 0382 00-2                       |
| Removal .....                                      | 0382 00-1                       |
| Start Switch                                       |                                 |
| Clean, Inspect, and Replace .....                  | 0406 00-2                       |
| Installation .....                                 | 0406 00-2                       |
| Removal .....                                      | 0406 00-1                       |
| Starter  |                                 |
| Alternate Installation .....                       | 0236 00-5                       |
| Alternate Removal .....                            | 0236 00-4                       |
| Clean, Inspect, and Repair .....                   | 0236 00-5                       |
| Cleaning .....                                     | 0236 00-2                       |

INDEX, cont'd

| <u>Subject</u>                                | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Ground Leads                                  |                                 |
| Cleaning .....                                | 0237 00-2                       |
| Installation .....                            | 0237 00-2                       |
| Removal .....                                 | 0237 00-1                       |
| Installation .....                            | 0236 00-2                       |
| Removal .....                                 | 0236 00-1                       |
| STE/ICE-R Procedures                          |                                 |
| Battery Evaluation Procedure .....            | 0099 00-12                      |
| Battery Packs .....                           | 0099 00-11                      |
| Battery Test Cards .....                      | 0099 00-11                      |
| Cable Assemblies .....                        | 0099 00-4                       |
| Description of STE/ICE-R Equipment .....      | 0099 00-1                       |
| Description of Test Cards .....               | 0099 00-12                      |
| For Engine RPM                                |                                 |
| Hook-up .....                                 | 0107 00-1                       |
| Removal .....                                 | 0107 00-2                       |
| For Power                                     |                                 |
| Hook-Up .....                                 | 0106 00-1                       |
| Removal .....                                 | 0106 00-2                       |
| For Starter Circuit Tests                     |                                 |
| Hook-up .....                                 | 0108 00-1                       |
| Removal .....                                 | 0108 00-2                       |
| General .....                                 | 0099 00-1                       |
| Individual Batteries .....                    | 0099 00-11                      |
| Manual .....                                  | 0099 00-6                       |
| Readout Display Messages .....                | 0099 00-7                       |
| Series Pairs .....                            | 0099 00-11                      |
| STE/ICE-R Engine Troubleshooting Method ..... | 0099 00-10                      |
| Test 01                                       |                                 |
| Test .....                                    | 0110 00-1                       |
| Test 10                                       |                                 |
| Test .....                                    | 0111 00-1                       |
| Test 13                                       |                                 |
| Test .....                                    | 0112 00-1                       |
| Test 67                                       |                                 |
| Test .....                                    | 0114 00-1                       |
| Test 72                                       |                                 |
| Test .....                                    | 0115 00-1                       |
| Test 73 - Test 75                             |                                 |
| Test .....                                    | 0116 00-1                       |
| Test 74                                       |                                 |
| Test .....                                    | 0117 00-1                       |
| Test 90                                       |                                 |
| Test .....                                    | 0118 00-1                       |
| Test Method .....                             | 0099 00-9                       |
| Transducer Kit (TK) .....                     | 0099 00-6                       |
| Transit Case .....                            | 0099 00-7                       |
| Vehicle Test Card (VTC) .....                 | 0099 00-10                      |
| Vehicle Test Meter (VTM) .....                | 0099 00-2                       |

INDEX, cont'd

| <u>Subject</u>                            | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Steer Linkage, Pivot                      |                                 |
| Adjustment .....                          | 0415 00-1                       |
| Steering Levers Cross-Shaft Links         |                                 |
| Clean, Inspect, and Replace .....         | 0391 00-2                       |
| Installation .....                        | 0391 00-2                       |
| Removal .....                             | 0391 00-1                       |
| Steering Levers Cross-Shafts and Bearings |                                 |
| Installation .....                        | 0390 00-4                       |
| Removal .....                             | 0390 00-1                       |
| Steering Levers, Left/Right               |                                 |
| Clean, Inspect, and Replace .....         | 0389 00-3                       |
| Installation .....                        | 0389 00-4                       |
| Removal .....                             | 0389 00-1                       |
| Steering Linkage                          |                                 |
| Adjustment .....                          | 0387 00-1                       |
| Stencils                                  |                                 |
| Inspection of Installed Items             |                                 |
| M1059 Only .....                          | 0514 00-1                       |
| M1064 Only .....                          | 0517 00-2                       |
| M1068 Only .....                          | 0515 00-1                       |
| M113A2 Only .....                         | 0512 00-2                       |
| M577A2 Only .....                         | 0513 00-1                       |
| M901A1 Only .....                         | 0516 00-2                       |
| M113A2 Only .....                         | 0512 00-1                       |
| Stoplight Switch                          |                                 |
| Adjustment .....                          | 0290 00-2                       |
| Installation .....                        | 0290 00-2                       |
| Removal .....                             | 0290 00-1                       |
| Stoplight, Left                           |                                 |
| Clean, Inspect, and Repair .....          | 0264 00-1                       |
| Installation .....                        | 0264 00-2                       |
| Removal .....                             | 0264 00-1                       |
| Stoplight/Taillight and Guards            |                                 |
| Installation .....                        | 0272 00-4                       |
| Removal .....                             | 0272 00-1                       |
| Stowage Box                               |                                 |
| Grenade                                   |                                 |
| Installation .....                        | 0540 00-2                       |
| Removal .....                             | 0540 00-1                       |
| Periscope                                 |                                 |
| Installation .....                        | 0541 00-2                       |
| Removal .....                             | 0541 00-1                       |

INDEX, cont'd

| <u>Subject</u>                             | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Spare IR (M19) Periscope                   |                                 |
| Installation .....                         | 0526 00-2                       |
| Removal .....                              | 0526 00-1                       |
| Stowage Bracket                            |                                 |
| Launch Tube                                |                                 |
| Installation .....                         | 0550 00-2                       |
| Removal .....                              | 0550 00-1                       |
| Sight Extension Arm                        |                                 |
| Installation .....                         | 0543 00-2                       |
| Removal .....                              | 0543 00-1                       |
| Tripod                                     |                                 |
| Installation .....                         | 0551 00-4                       |
| Removal .....                              | 0551 00-2                       |
| W1, W2, and NATO Slave Cables              |                                 |
| Installation .....                         | 0545 00-2                       |
| Removal .....                              | 0545 00-1                       |
| Stowage Frame, Rear External               |                                 |
| Installation .....                         | 0538 00-2                       |
| Removal .....                              | 0538 00-1                       |
| Stowage Hooks and Brackets                 |                                 |
| Installation .....                         | 0656 00-2                       |
| Removal .....                              | 0656 00-1                       |
| Stowage Rack                               |                                 |
| Ammunition                                 |                                 |
| Installation .....                         | 0547 00-2                       |
| Removal .....                              | 0547 00-1                       |
| Radio                                      |                                 |
| Left Bulkhead                              |                                 |
| Installation .....                         | 0533 00-3                       |
| Removal .....                              | 0533 00-2                       |
| Right Front                                |                                 |
| Installation .....                         | 0529 00-2                       |
| Removal .....                              | 0529 00-1                       |
| Strainer Parts                             |                                 |
| Filler Cap                                 |                                 |
| M577A2 and M1068                           |                                 |
| Installation .....                         | 0154 00-3                       |
| Removal .....                              | 0154 00-2                       |
| M981 and M1064                             |                                 |
| Installation .....                         | 0144 00-2                       |
| Removal .....                              | 0144 00-1                       |
| Strainer Tube, Ramp Pump to Hydraulic Tank |                                 |
| Clean, Inspect, and Repair .....           | 0580 00-3                       |
| Installation .....                         | 0580 00-3                       |
| Removal .....                              | 0580 00-2                       |

INDEX, cont'd

| <u>Subject</u>                   | <u>WP Sequence No.-Page No.</u> |
|----------------------------------|---------------------------------|
| Strainer, Hydraulic Tank         |                                 |
| Installation .....               | 0584 00-3                       |
| Removal .....                    | 0584 00-2                       |
| Straps, Personnel Seat           |                                 |
| Installation .....               | 0497 00-3                       |
| Removal .....                    | 0497 00-2                       |
| Support, Cargo Hatch             |                                 |
| Installation .....               | 0470 00-2                       |
| Removal .....                    | 0470 00-1                       |
| Switch                           |                                 |
| Dome Blackout Light Bypass       |                                 |
| Installation .....               | 0281 00-2                       |
| Removal .....                    | 0281 00-1                       |
| Engine Start                     |                                 |
| Installation .....               | 0243 00-2                       |
| Removal .....                    | 0243 00-1                       |
| Front Dome Light                 |                                 |
| Installation .....               | 0278 00-2                       |
| Removal .....                    | 0278 00-1                       |
| Headlight, High Beam Selector    |                                 |
| Installation .....               | 0285 00-2                       |
| Removal .....                    | 0285 00-1                       |
| Horn                             |                                 |
| Installation .....               | 0252 00-2                       |
| Removal .....                    | 0252 00-1                       |
| Light, Main                      |                                 |
| Installation .....               | 0242 00-2                       |
| Removal .....                    | 0242 00-1                       |
| Rear Dome Light                  |                                 |
| Installation .....               | 0279 00-2                       |
| Removal .....                    | 0279 00-1                       |
| Switch and Mount, Ramp Door      |                                 |
| Adjustment .....                 | 0283 00-3                       |
| Clean, Inspect, and Repair ..... | 0283 00-2                       |
| Installation .....               | 0283 00-2                       |
| Removal .....                    | 0283 00-1                       |
| <b>T</b>                         |                                 |
| Table                            |                                 |
| Left                             |                                 |
| Installation .....               | 0502 00-4                       |
| Removal .....                    | 0502 00-2                       |
| Right Forward                    |                                 |
| Installation .....               | 0501 00-4                       |
| Removal .....                    | 0501 00-2                       |



INDEX, cont'd

| <u>Subject</u>                   | <u>WP Sequence No.-Page No.</u> |
|----------------------------------|---------------------------------|
| Right Rearward                   |                                 |
| Installation .....               | 0500 00-3                       |
| Removal .....                    | 0500 00-2                       |
| Tachometer                       |                                 |
| Cable and Adapter                |                                 |
| Installation .....               | 0246 00-3                       |
| Removal .....                    | 0246 00-1                       |
| Instrument Panel                 |                                 |
| Installation .....               | 0245 00-2                       |
| Removal .....                    | 0245 00-1                       |
| Taillight                        |                                 |
| Left                             |                                 |
| Clean, Inspect, and Repair ..... | 0264 00-1                       |
| Installation .....               | 0264 00-2                       |
| Removal .....                    | 0264 00-1                       |
| Right                            |                                 |
| Installation .....               | 0265 00-2                       |
| Removal .....                    | 0265 00-1                       |
| Wiring Harness                   |                                 |
| Assembly .....                   | 0554 00-7                       |
| Disassembly .....                | 0554 00-6                       |
| Installation .....               | 0554 00-7                       |
| Removal .....                    | 0554 00-1                       |
| Tank                             |                                 |
| Auxiliary                        |                                 |
| Installation .....               | 0206 00-3                       |
| Removal .....                    | 0206 00-1                       |
| Hydraulic                        |                                 |
| Clean, Inspect, and Repair ..... | 0585 00-4                       |
| Fill Hydraulic Tank .....        | 0585 00-7                       |
| Installation .....               | 0585 00-4                       |
| Removal .....                    | 0585 00-2                       |
| Tarpaulin and Straps             |                                 |
| Installation .....               | 0655 00-2                       |
| Removal .....                    | 0655 00-1                       |
| Teleposts And Cover              |                                 |
| Installation .....               | 0331 00-2                       |
| Removal .....                    | 0331 00-1                       |
| Tent                             |                                 |
| Clamps                           |                                 |
| Installation .....               | 0504 00-2                       |
| Removal .....                    | 0504 00-1                       |
| Frame Mounts                     |                                 |
| Installation .....               | 0505 00-3                       |
| Removal .....                    | 0505 00-1                       |

**INDEX, cont'd**

| <u>Subject</u>   | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Light Assembly   |                                 |
| Installation . . . . .   | 0284 00-2                       |
| Removal . . . . .  | 0284 00-1                       |
| Test Kit, Alternator/Generator   |                                 |
| Connect . . . . .  | 0019 00-1                       |
| Disconnect . . . . .   | 0019 00-5                       |
| Theory of Operation . . . . .  | 0003 00-1                       |
| Auxiliary Automotive System . . . . .  | 0003 00-3                       |
| Differential Components . . . . .  | 0003 00-7                       |
| Electrical System . . . . .  | 0003 00-4                       |
| Electrical System (M1064 Only) . . . . .   | 0003 00-18                      |
| Electrical System (M1068 Only) . . . . .   | 0003 00-16                      |
| Electrical System (M113A2 and M1059) . . . . .                                   | 0003 00-10                      |
| Electrical System (M577A2 Only) . . . . .  | 0003 00-14                      |
| Electrical System (M901A1 Only) . . . . .  | 0003 00-12                      |
| Hydraulic System . . . . .   | 0003 00-3                       |
| Kit Integrated Systems . . . . .   | 0003 00-20                      |
| Major Components . . . . .   | 0003 00-5                       |
| Oil Cooling System Components - Engine, Transmission, and Differential . . . . . | 0003 00-8                       |
| Power Plant . . . . .  | 0003 00-1                       |
| Power Plant Components . . . . .   | 0003 00-6                       |
| Scope . . . . .  | 0003 00-1                       |
| Special Equipment . . . . .  | 0003 00-4                       |
| Suspension System . . . . .  | 0003 00-4                       |
| Tracks and Suspension Components . . . . .                                       | 0003 00-9                       |
| Thermostat Housing to Engine Coolant Tube  |                                 |
| Installation . . . . .   | 0201 00-2                       |
| Removal . . . . .  | 0201 00-1                       |
| Thermostat, Housing, and Deaeration Elbow  |                                 |
| Installation . . . . .   | 0200 00-3                       |
| Removal . . . . .  | 0200 00-1                       |
| Throttle Valve Linkage, Accelerator and Transmission                             |                                 |
| Adjust Governor Linkage . . . . .  | 0401 00-2                       |
| Adjust Idle Stop . . . . .   | 0401 00-6                       |
| Adjust Throttle Valve Linkage . . . . .  | 0401 00-4                       |
| Adjust Upper Accelerator Detent Plunger . . . . .                                | 0401 00-9                       |
| Adjust Upper Accelerator Pedal Detent Stop . . . . .                             | 0401 00-7                       |
| Adjust Upper Accelerator Pedal Toe Stop . . . . .                                | 0401 00-8                       |
| Check Operation . . . . .  | 0401 00-9                       |
| Tools, Supplements, and Fixtures List . . . . .                                  | 0780 00-1                       |
| Torsion Bar  |                                 |
| Installation . . . . .   | 0385 00-4                       |
| Removal . . . . .  | 0385 00-2                       |

INDEX, cont'd

| <u>Subject</u>                                     | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Torsion Bar Anchor                                 |                                 |
| Clean, Inspect, and Replace .....                  | 0386 00-2                       |
| Installation .....                                 | 0386 00-2                       |
| Removal .....                                      | 0386 00-2                       |
| Tow Cable, Pad                                     |                                 |
| Installation .....                                 | 0420 00-2                       |
| Removal .....                                      | 0420 00-1                       |
| Towing Hook, Eye                                   |                                 |
| Installation .....                                 | 0418 00-2                       |
| Removal .....                                      | 0418 00-1                       |
| Towing Pintle                                      |                                 |
| Assembly .....                                     | 0419 00-3                       |
| Disassembly .....                                  | 0419 00-2                       |
| Inspection-Acceptance and Rejection Criteria ..... | 0419 00-2                       |
| Installation .....                                 | 0419 00-4                       |
| Removal .....                                      | 0419 00-1                       |
| Towlines   |                                 |
| Clean, Inspect, and Repair .....                   | 0657 00-2                       |
| Installation .....                                 | 0657 00-3                       |
| Removal .....                                      | 0657 00-1                       |
| Track  |                                 |
| T130   |                                 |
| Clean, Inspect, and Repair .....                   | 0366 00-2                       |
| Installation .....                                 | 0366 00-3                       |
| Removal .....                                      | 0366 00-1                       |
| T150   |                                 |
| Installation .....                                 | 0367 00-2                       |
| Removal .....                                      | 0367 00-1                       |
| Tension Adjuster and Mount                         |                                 |
| Clean, Inspect, and Replace .....                  | 0378 00-2                       |
| Installation .....                                 | 0378 00-2                       |
| Removal .....                                      | 0378 00-1                       |
| Track Covers                                       |                                 |
| Installation .....                                 | 0365 00-2                       |
| Removal .....                                      | 0365 00-1                       |
| Track Shoe   |                                 |
| Pad (T150)   |                                 |
| Installation .....                                 | 0370 00-2                       |
| Removal .....                                      | 0370 00-1                       |
| Pad Assembly (T130)                                |                                 |
| Installation .....                                 | 0368 00-2                       |
| Removal .....                                      | 0368 00-2                       |
| Replacement .....                                  | 0368 00-1                       |

INDEX, cont'd

| <u>Subject</u>                                     | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Stowage Bracket                                    |                                 |
| Installation .....                                 | 0553 00-2                       |
| Removal .....                                      | 0553 00-1                       |
| T150   |                                 |
| Installation .....                                 | 0369 00-2                       |
| Removal .....                                      | 0369 00-1                       |
| Trailer Harness                                    |                                 |
| Inspection-Acceptance and Rejection Criteria ..... | 0328 00-2                       |
| Installation .....                                 | 0328 00-2                       |
| Removal .....                                      | 0328 00-1                       |
| Transfer Gearcase                                  |                                 |
| Lifting Eyebolt, Cover, and Plug                   |                                 |
| Inspect and Replace .....                          | 0346 00-2                       |
| Installation .....                                 | 0346 00-2                       |
| Removal .....                                      | 0346 00-1                       |
| Oil Dipstick, Tube, and Guide                      |                                 |
| Clean, Inspect, and Repair .....                   | 0343 00-2                       |
| Installation .....                                 | 0343 00-2                       |
| Removal .....                                      | 0343 00-1                       |
| Oil Filler   |                                 |
| Assembly .....                                     | 0345 00-2                       |
| Clean, Inspect, and Repair .....                   | 0344 00-2, 0345 00-2            |
| Disassembly .....                                  | 0345 00-1                       |
| Installation .....                                 | 0344 00-2                       |
| Removal .....                                      | 0344 00-1                       |
| Resilient Mount                                    |                                 |
| Clean, Inspect, and Repair .....                   | 0342 00-2                       |
| Installation .....                                 | 0342 00-2                       |
| Removal .....                                      | 0342 00-1                       |
| Transmission                                       |                                 |
| Differential Shaft                                 |                                 |
| Clean, Inspect, and Repair .....                   | 0347 00-2                       |
| Installation .....                                 | 0347 00-2                       |
| Removal .....                                      | 0347 00-1                       |
| High Oil Temperature Switch                        |                                 |
| Clean, Inspect, and Repair .....                   | 0320 00-1                       |
| Installation .....                                 | 0320 00-2                       |
| Removal .....                                      | 0320 00-1                       |
| Oil Cooler Hose and Fittings                       |                                 |
| Clean, Inspect, and Repair .....                   | 0338 00-2                       |
| Installation .....                                 | 0338 00-3                       |
| Removal .....                                      | 0338 00-1                       |
| Oil Filter and Drain                               |                                 |
| Clean, Inspect, and Repair .....                   | 0341 00-2                       |
| Installation .....                                 | 0341 00-2                       |
| Removal .....                                      | 0341 00-1                       |

INDEX, cont'd

| <u>Subject</u>                                       | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Range Selector                                       |                                 |
| Assembly . . . . .                                   | 0405 00-4                       |
| Clean, Inspect, and Repair . . . . .                 | 0405 00-3                       |
| Disassembly . . . . .                                | 0405 00-1                       |
| Installation . . . . .                               | 0404 00-2                       |
| Removal . . . . .                                    | 0404 00-1                       |
| Throttle Valve Linkage, Accelerator                  |                                 |
| Adjust Governor Linkage . . . . .                    | 0401 00-2                       |
| Adjust Idle Stop . . . . .                           | 0401 00-6                       |
| Adjust Throttle Valve Linkage . . . . .              | 0401 00-4                       |
| Adjust Upper Accelerator Detent Plunger . . . . .    | 0401 00-9                       |
| Adjust Upper Accelerator Pedal Detent Stop . . . . . | 0401 00-7                       |
| Adjust Upper Accelerator Pedal Toe Stop . . . . .    | 0401 00-8                       |
| Check Operation . . . . .                            | 0401 00-9                       |
| Vent and Filler Tube                                 |                                 |
| Clean, Inspect, and Repair . . . . .                 | 0340 00-2                       |
| Installation . . . . .                               | 0340 00-2                       |
| Removal . . . . .                                    | 0340 00-1                       |
| Transmitter  |                                 |
| Fuel Quantity  |                                 |
| M113A2, M1059, and M901A1                            |                                 |
| Installation . . . . .                               | 0138 00-2                       |
| Removal . . . . .                                    | 0138 00-1                       |
| M577A2 and M1068                                     |                                 |
| Cleaning . . . . .                                   | 0155 00-2                       |
| Installation . . . . .                               | 0155 00-2                       |
| Removal . . . . .                                    | 0155 00-1                       |
| M981 and M1064                                       |                                 |
| Installation . . . . .                               | 0146 00-3                       |
| Removal . . . . .                                    | 0146 00-1                       |
| Traversing Unit Mount and Spacer                     |                                 |
| Installation . . . . .                               | 0552 00-2                       |
| Removal . . . . .                                    | 0552 00-1                       |
| Trim Vane  |                                 |
| Assembly . . . . .                                   | 0422 00-2                       |
| Disassembly . . . . .                                | 0422 00-1                       |
| Installation . . . . .                               | 0421 00-2                       |
| Removal . . . . .                                    | 0421 00-1                       |
| Trim Vane Control Linkage                            |                                 |
| Assembly . . . . .                                   | 0423 00-2                       |
| Disassembly . . . . .                                | 0423 00-1                       |
| Trim Vane Release                                    |                                 |
| Adjustment . . . . .                                 | 0424 00-3                       |
| Assembly . . . . .                                   | 0425 00-2                       |
| Disassembly . . . . .                                | 0425 00-1                       |
| Installation . . . . .                               | 0424 00-2                       |
| Removal . . . . .                                    | 0424 00-1                       |

INDEX, cont'd

| <u>Subject</u>   | <u>WP Sequence No.-Page No.</u> |
|--|---------------------------------|
| Tripod Stowage Brackets  |                                 |
| Installation .....   | 0551 00-4                       |
| Removal .....  | 0551 00-2                       |
| Troubleshooting  |                                 |
| Definitions and Descriptions of Troubleshooting Procedures ..... | 0005 00-1                       |
| Purpose .....  | 0005 00-1                       |
| Troubleshooting Basics .....                                     | 0005 00-2                       |
| Troubleshooting Sample .....                                     | 0005 00-4                       |
| Tubes  |                                 |
| Air Box Heater to Fuel Return Tee                                |                                 |
| Installation .....   | 0169 00-4                       |
| Removal .....  | 0169 00-1                       |
| Fuel Tank-to-Bulkhead  |                                 |
| Installation .....   | 0141 00-6                       |
| Removal .....  | 0141 00-1                       |
| Fuel Vent  |                                 |
| Installation .....   | 0160 00-4                       |
| Removal .....  | 0160 00-1                       |
| Left Cylinder Head Fuel Return                                   |                                 |
| Installation .....   | 0170 00-2                       |
| Removal .....  | 0170 00-1                       |
| Oil Filler   |                                 |
| Installation .....   | 0128 00-3                       |
| Removal .....  | 0128 00-2                       |
| Quick Disconnect and Ramp Control Valve to Bulkhead Connection   |                                 |
| Installation .....   | 0587 00-4                       |
| Removal .....  | 0587 00-2                       |
| <b>U</b>   |                                 |
| Utility Outlet   |                                 |
| Lead Assembly  |                                 |
| Inspection-Acceptance and Rejection Criteria .....               | 0330 00-2                       |
| Installation .....   | 0330 00-2                       |
| Removal .....  | 0330 00-1                       |
| Receptacle   |                                 |
| Inspection-Acceptance and Rejection Criteria .....               | 0329 00-2                       |
| Installation .....   | 0329 00-3                       |
| Removal .....  | 0329 00-1                       |
| <b>V</b>   |                                 |
| Valve  |                                 |
| Air Control  |                                 |
| Installation .....   | 0187 00-4                       |
| Removal .....  | 0187 00-1                       |

INDEX, cont'd

| <u>Subject</u>                                  | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| Fuel Shutoff                                    |                                 |
| Auxiliary Power Unit                            |                                 |
| Installation .....                              | 0594 00-3                       |
| Removal .....                                   | 0594 00-2                       |
| Fuel Shutoff Assembly                           |                                 |
| Installation .....                              | 0615 00-2                       |
| Removal .....                                   | 0615 00-1                       |
| Valves, Hull Poppet                             |                                 |
| Installation .....                              | 0435 00-2                       |
| Removal .....                                   | 0435 00-1                       |
| Vent, Fuel Cap                                  |                                 |
| Cleaning .....                                  | 0150 00-1                       |
| Vision Block Locks and Seals, Commander's Hatch |                                 |
| Installation .....                              | 0451 00-3                       |
| Removal .....                                   | 0451 00-1                       |
| Vision Port, Ramp                               |                                 |
| Installation .....                              | 0571 00-2                       |
| Removal .....                                   | 0571 00-1                       |
| Voltage Regulator                               |                                 |
| Adjustment .....                                | 0229 00-1                       |
| Installation .....                              | 0230 00-3                       |
| Removal .....                                   | 0230 00-1                       |
| Repair or Replacement .....                     | 0230 00-2                       |
| <b>W</b>  |                                 |
| W1, W2, and NATO Slave Cables Stowage Bracket   |                                 |
| Installation .....                              | 0545 00-2                       |
| Removal .....                                   | 0545 00-1                       |
| Warning Light Panel                             |                                 |
| Installation .....                              | 0254 00-2                       |
| Removal .....                                   | 0254 00-1                       |
| Warning Light Panel Assembly                    |                                 |
| Installation .....                              | 0253 00-2                       |
| Removal .....                                   | 0253 00-1                       |
| Warning Panel Lights                            |                                 |
| Clean, Inspect, and Repair .....                | 0251 00-2                       |
| Installation .....                              | 0251 00-2                       |
| Removal .....                                   | 0251 00-1                       |

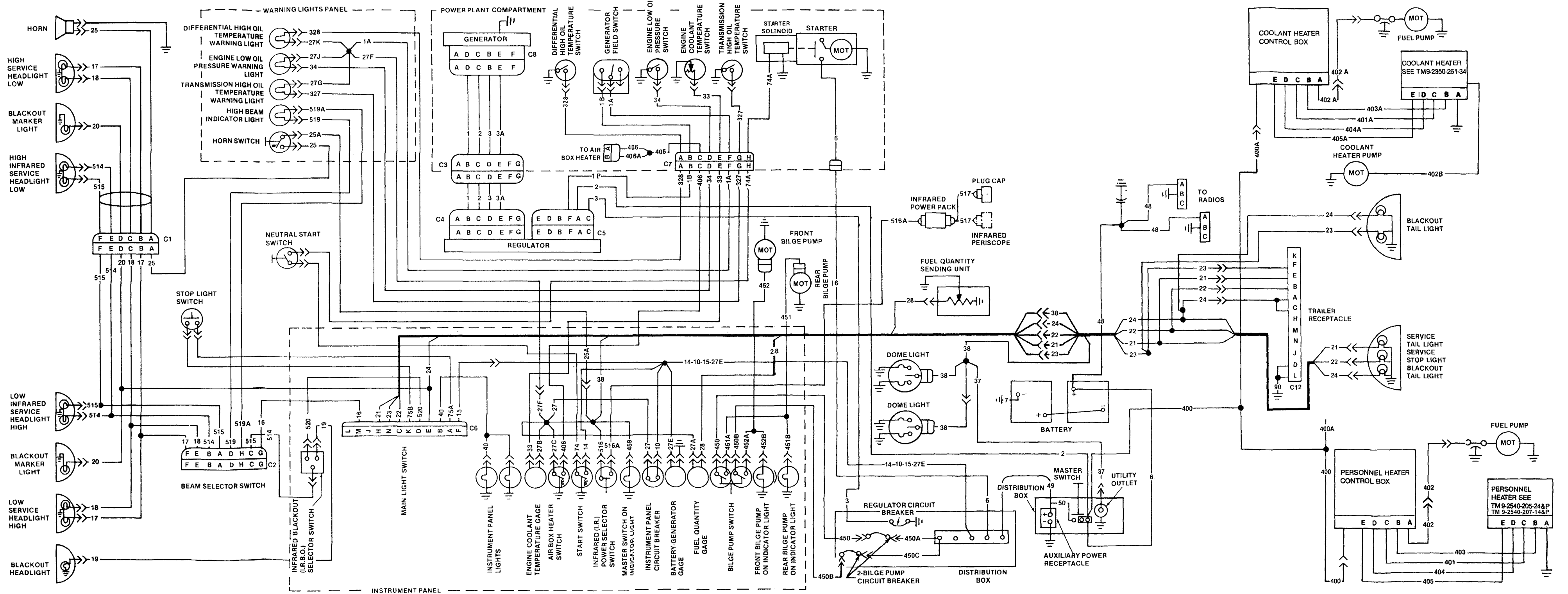
**INDEX, cont'd**

| <u>Subject</u>                                      | <u>WP Sequence No.-Page No.</u> |
|---|---------------------------------|
| <b>Welding</b>                                      |                                 |
| Aluminum Castings . . . . .                         | 0575 00-2                       |
| External Fuel Tanks (M981 and M1064 Only) . . . . . | 0575 00-3                       |
| General Welding Instructions . . . . .              | 0575 00-4                       |
| Magnesium Castings . . . . .                        | 0575 00-2                       |
| MIG Welding Method . . . . .                        | 0575 00-5                       |
| Plastic Molding Material . . . . .                  | 0575 00-3                       |
| Safety Precautions . . . . .                        | 0575 00-1                       |
| Welding Near Mortar Ring (M1064 Only) . . . . .     | 0575 00-4                       |
| <b>Wheel</b>  |                                 |
| <b>Idler</b>  |                                 |
| Installation . . . . .                              | 0375 00-2                       |
| Removal . . . . .                                   | 0375 00-1                       |
| <b>Windshield</b>                                   |                                 |
| <b>Driver's</b>                                     |                                 |
| Installation . . . . .                              | 0624 00-2                       |
| Removal . . . . .                                   | 0624 00-1                       |
| <b>Stowage Bracket</b>                              |                                 |
| Installation . . . . .                              | 0542 00-2                       |
| Removal . . . . .                                   | 0542 00-1                       |
| <b>Wire Rope and Pulleys</b>                        |                                 |
| <b>All Except M1064</b>                             |                                 |
| Installation . . . . .                              | 0564 00-2                       |
| Removal . . . . .                                   | 0564 00-1                       |
| <b>M1064 Only</b>                                   |                                 |
| Installation . . . . .                              | 0565 00-2                       |
| Removal . . . . .                                   | 0565 00-1                       |
| <b>Wiring Harness</b>                               |                                 |
| <b>Air Box Heater</b>                               |                                 |
| Installation . . . . .                              | 0181 00-2                       |
| Removal . . . . .                                   | 0181 00-1                       |
| <b>Battery to Radio, Left Side</b>                  |                                 |
| Installation . . . . .                              | 0307 00-4                       |
| Removal . . . . .                                   | 0307 00-1                       |
| <b>Coolant Pump to Heater</b>                       |                                 |
| Inspection and Repair . . . . .                     | 0649 00-2                       |
| Installation . . . . .                              | 0649 00-2                       |
| Removal . . . . .                                   | 0649 00-1                       |
| <b>M13 NBC Heater</b>                               |                                 |
| <b>M1068 Only</b>                                   |                                 |
| Installation . . . . .                              | 0684 00-5                       |
| Removal . . . . .                                   | 0684 00-1                       |
| <b>M577A2 Only</b>                                  |                                 |
| Installation . . . . .                              | 0670 00-3                       |
| Removal . . . . .                                   | 0670 00-1                       |



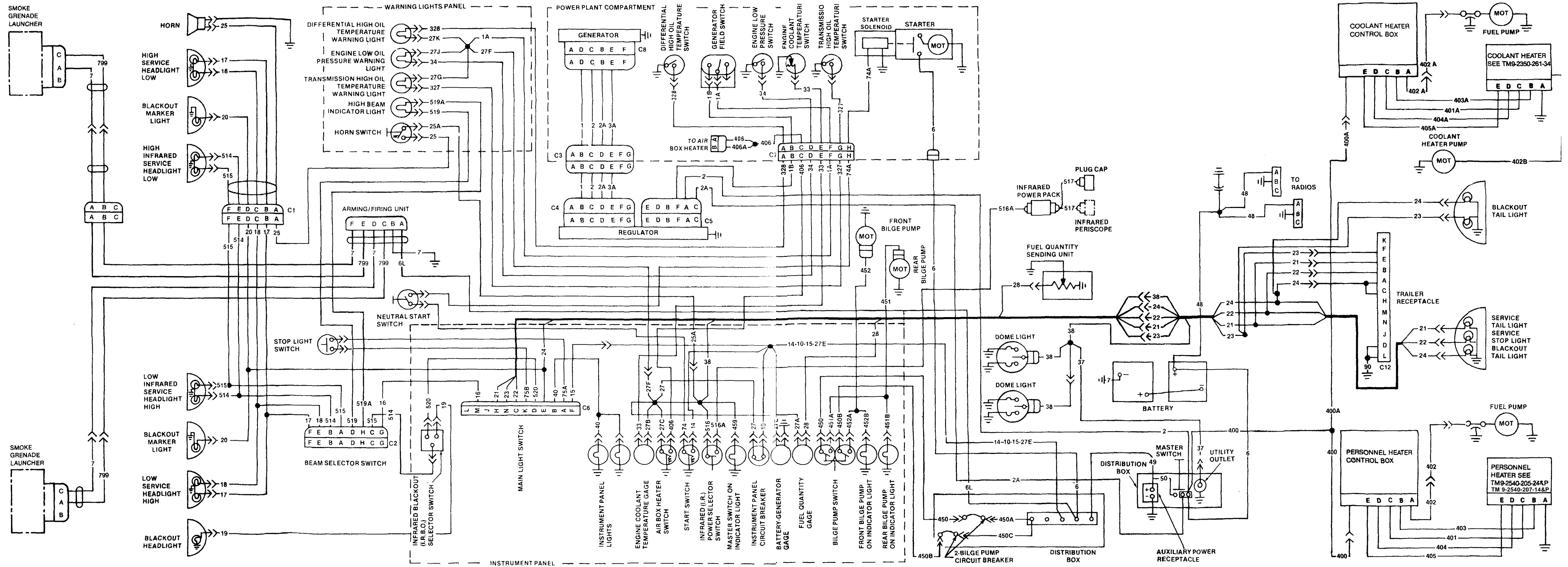
INDEX, cont'd

| <u>Subject</u>              | <u>WP Sequence No.-Page No.</u> |
|-----------------------------|---------------------------------|
| Rear Main                   |                                 |
| M1064                       |                                 |
| Inspect and Repair .....    | 0288 00-13                      |
| Installation .....          | 0288 00-13                      |
| Removal .....               | 0288 00-1                       |
| M113A2, M901A1, and M1059   |                                 |
| Installation .....          | 0289 00-11                      |
| Removal .....               | 0289 00-1                       |
| M577A2 and M1068            |                                 |
| Inspection and Repair ..... | 0287 00-16                      |
| Installation .....          | 0287 00-16                      |
| Removal .....               | 0287 00-1                       |
| Right Headlight             |                                 |
| Inspect and Repair .....    | 0286 00-3                       |
| Installation .....          | 0286 00-3                       |
| Removal .....               | 0286 00-1                       |
| Smoke Grenade Launcher      |                                 |
| Installation .....          | 0577 00-7                       |
| Removal .....               | 0577 00-2                       |
| Wiring Harness, Repair      |                                 |
| Assembly .....              | 0312 00-4                       |
| Disassembly .....           | 0312 00-1                       |



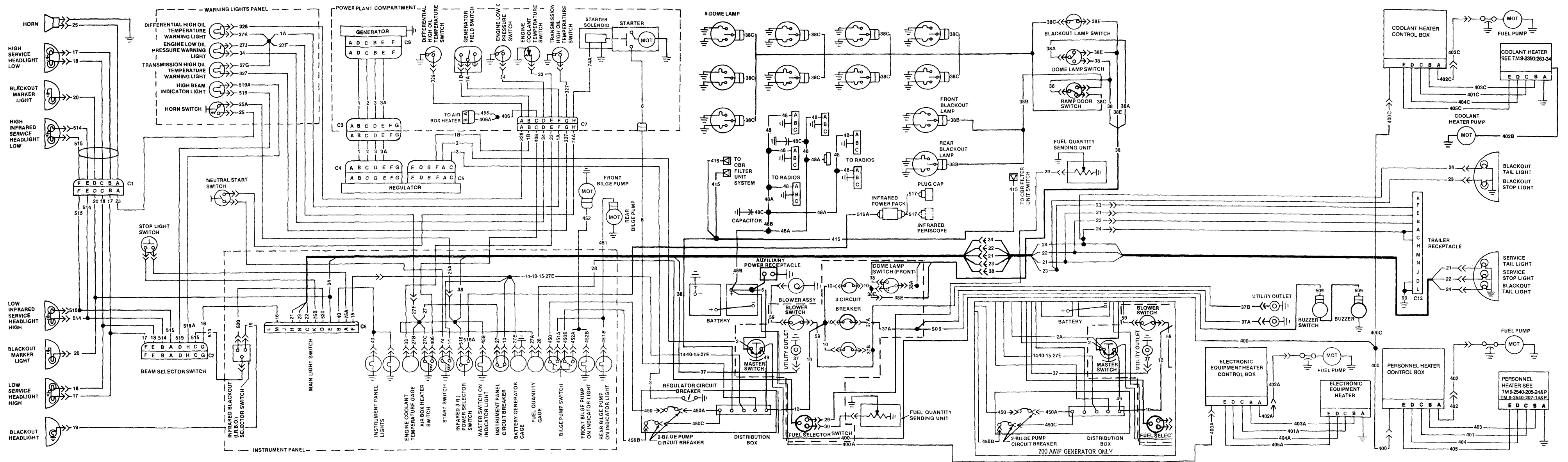
M113A2 ELECTRICAL WIRING DIAGRAM 100 AMP GENERATOR





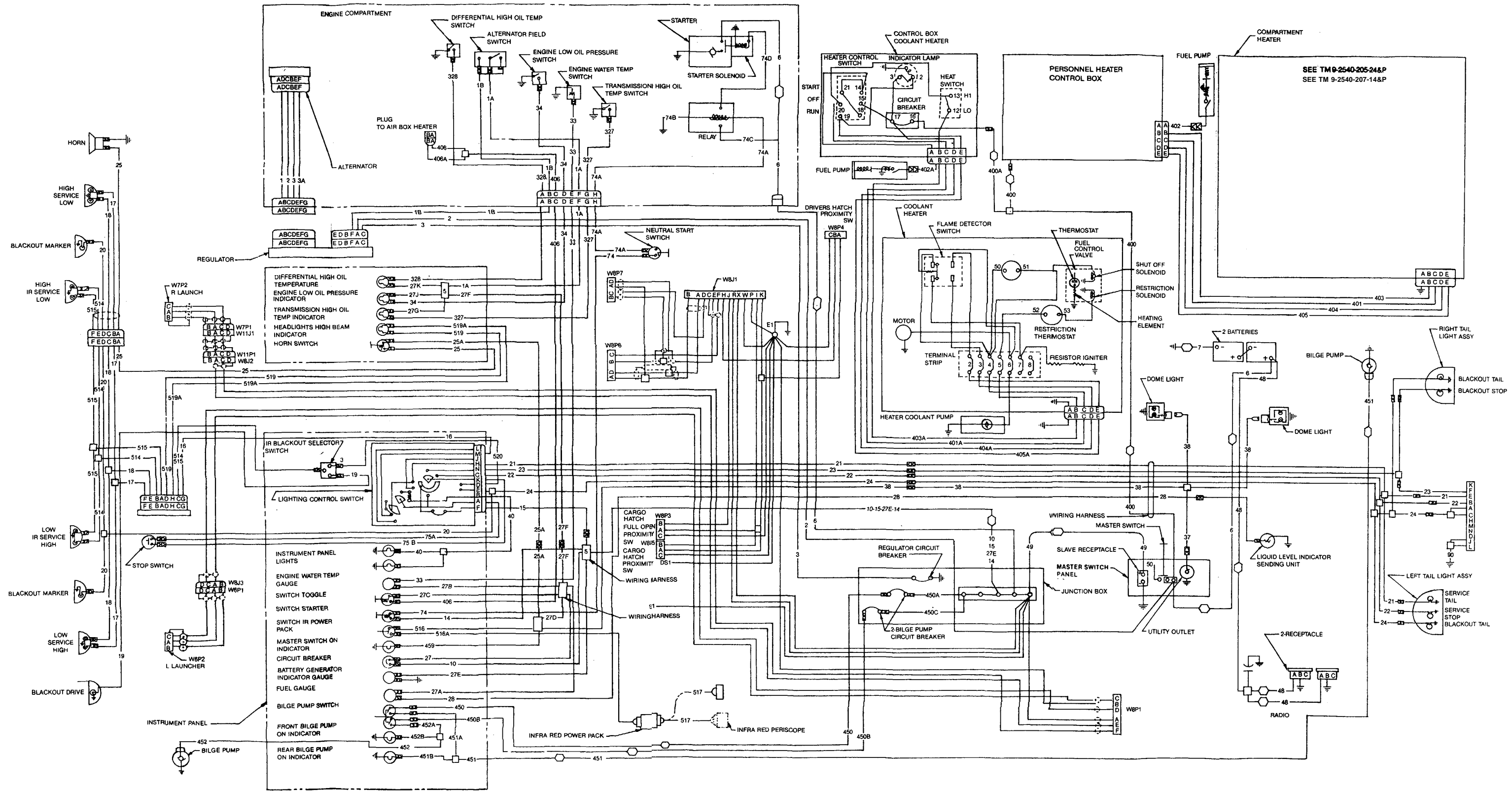
M113A2 ELECTRICAL WIRING DIAGRAM 200 AMP GENERATOR





M577A2 ELECTRICAL WIRING DIAGRAM

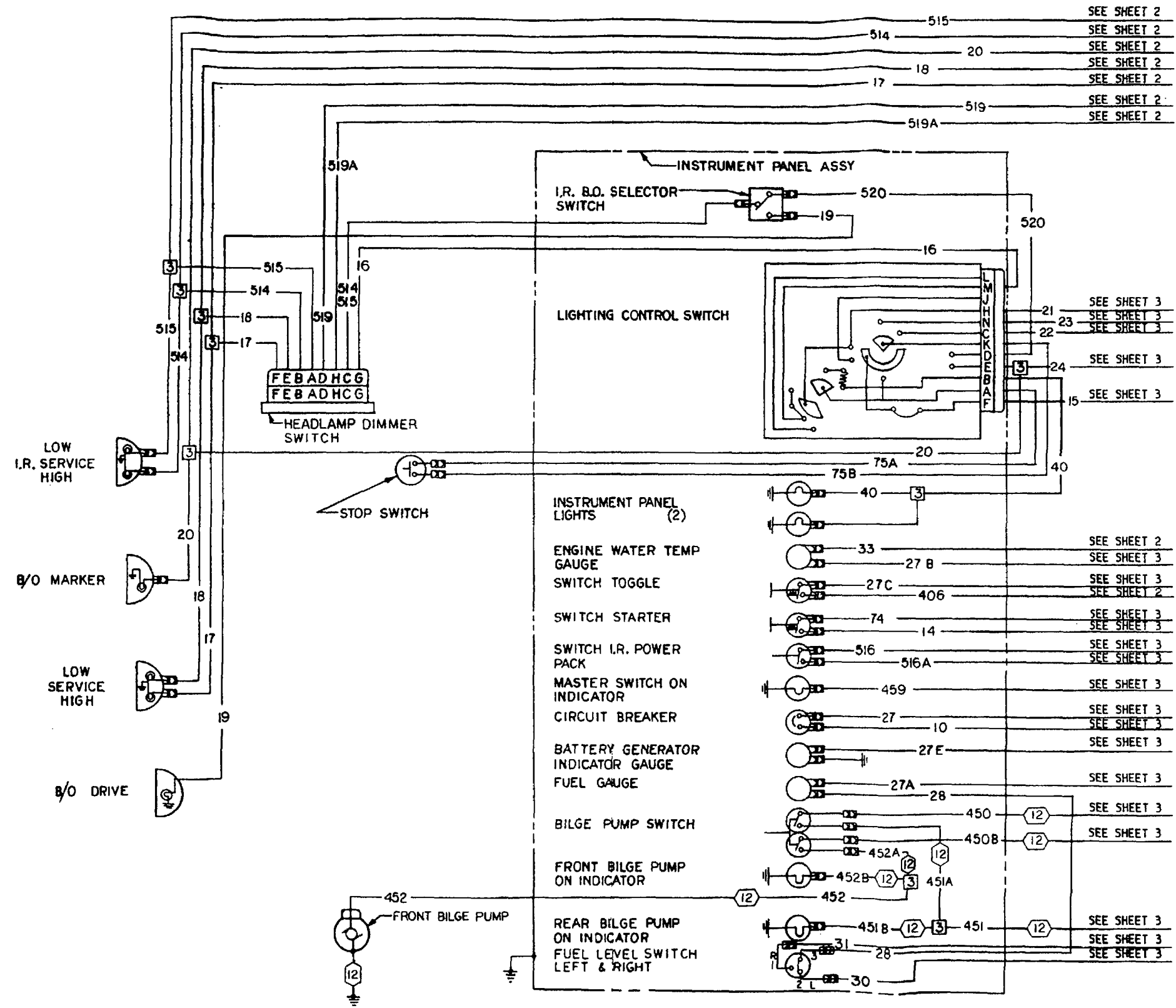




M901A1 ELECTRICAL WIRING DIAGRAM

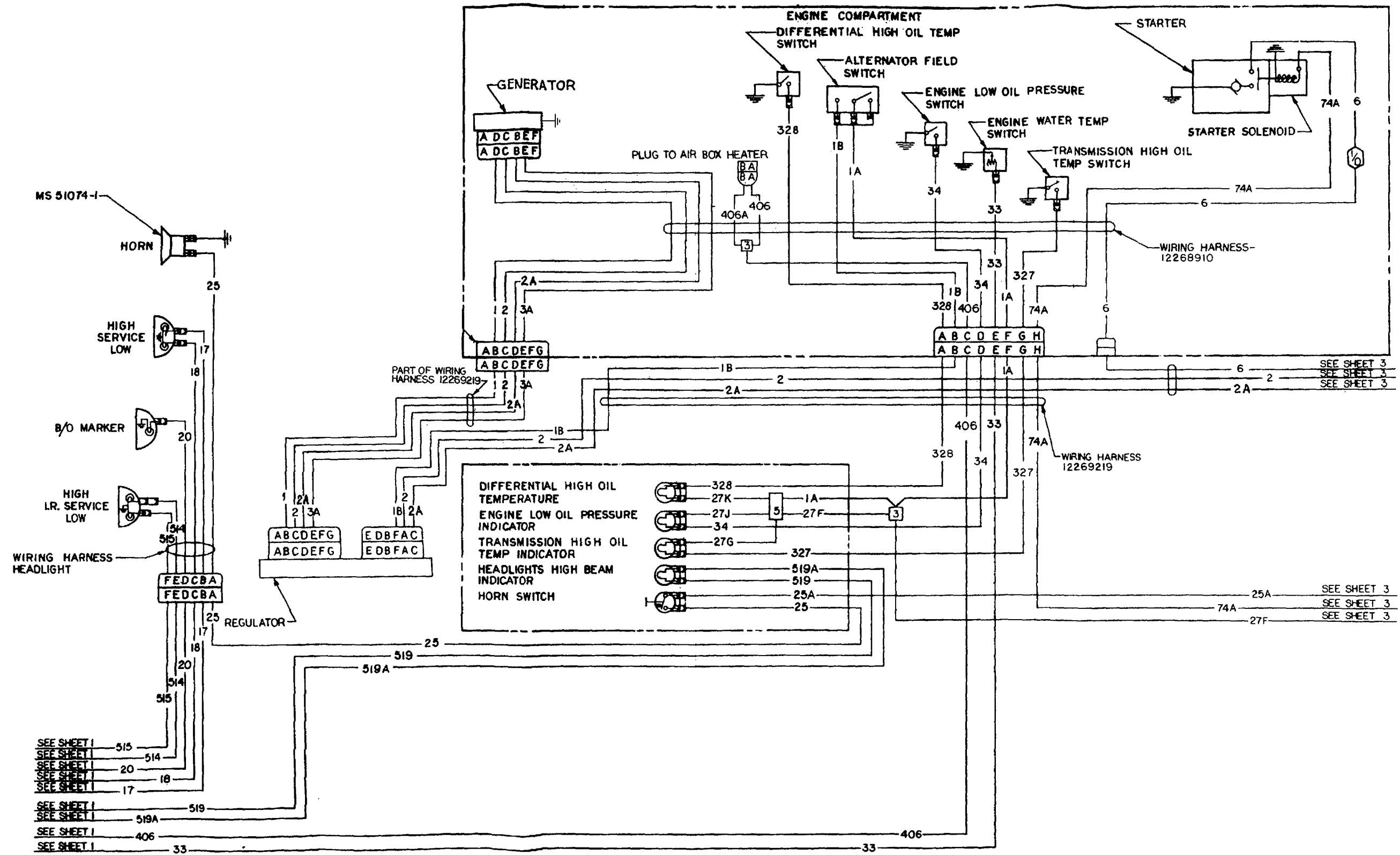






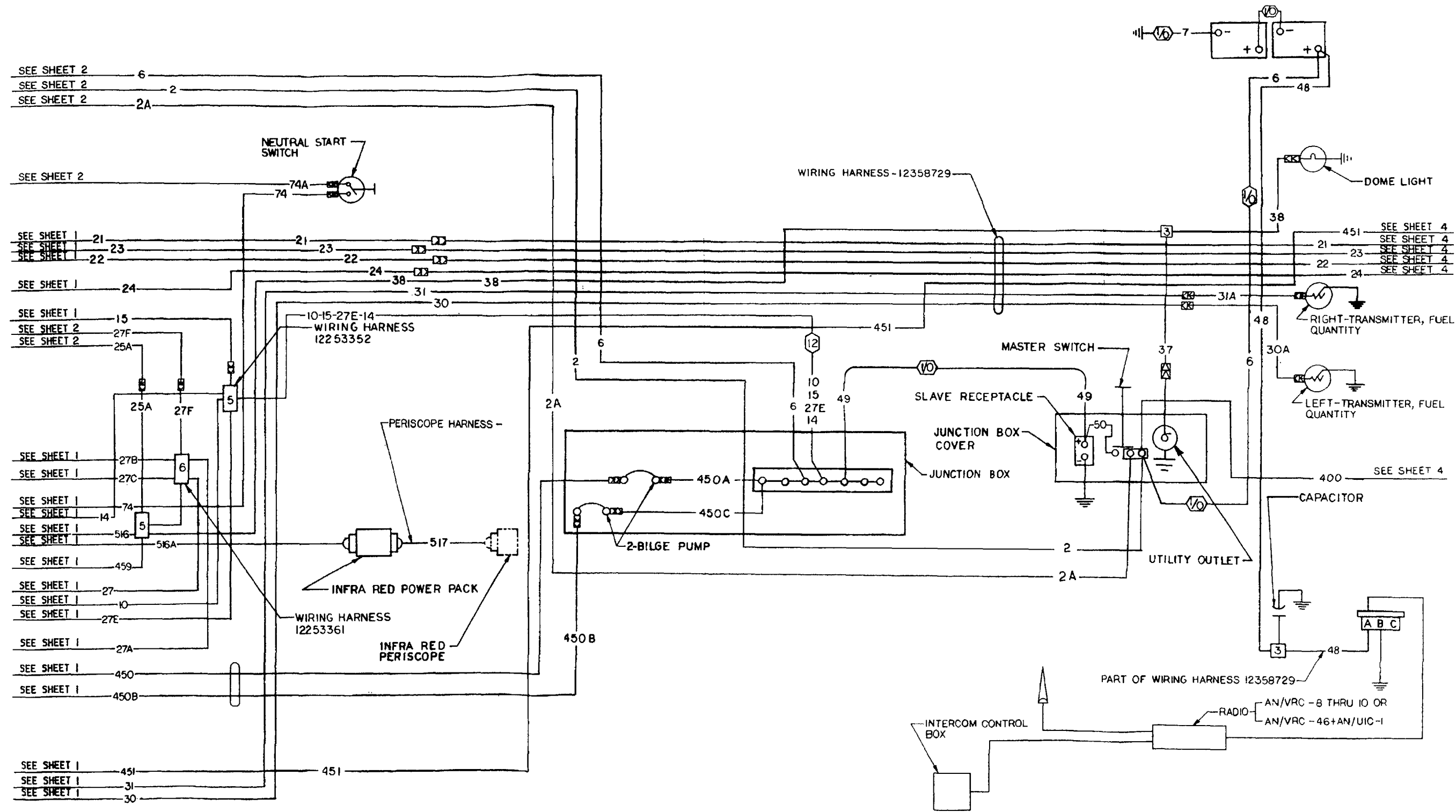
M1064 ELECTRICAL WIRING DIAGRAM (200 AMP)





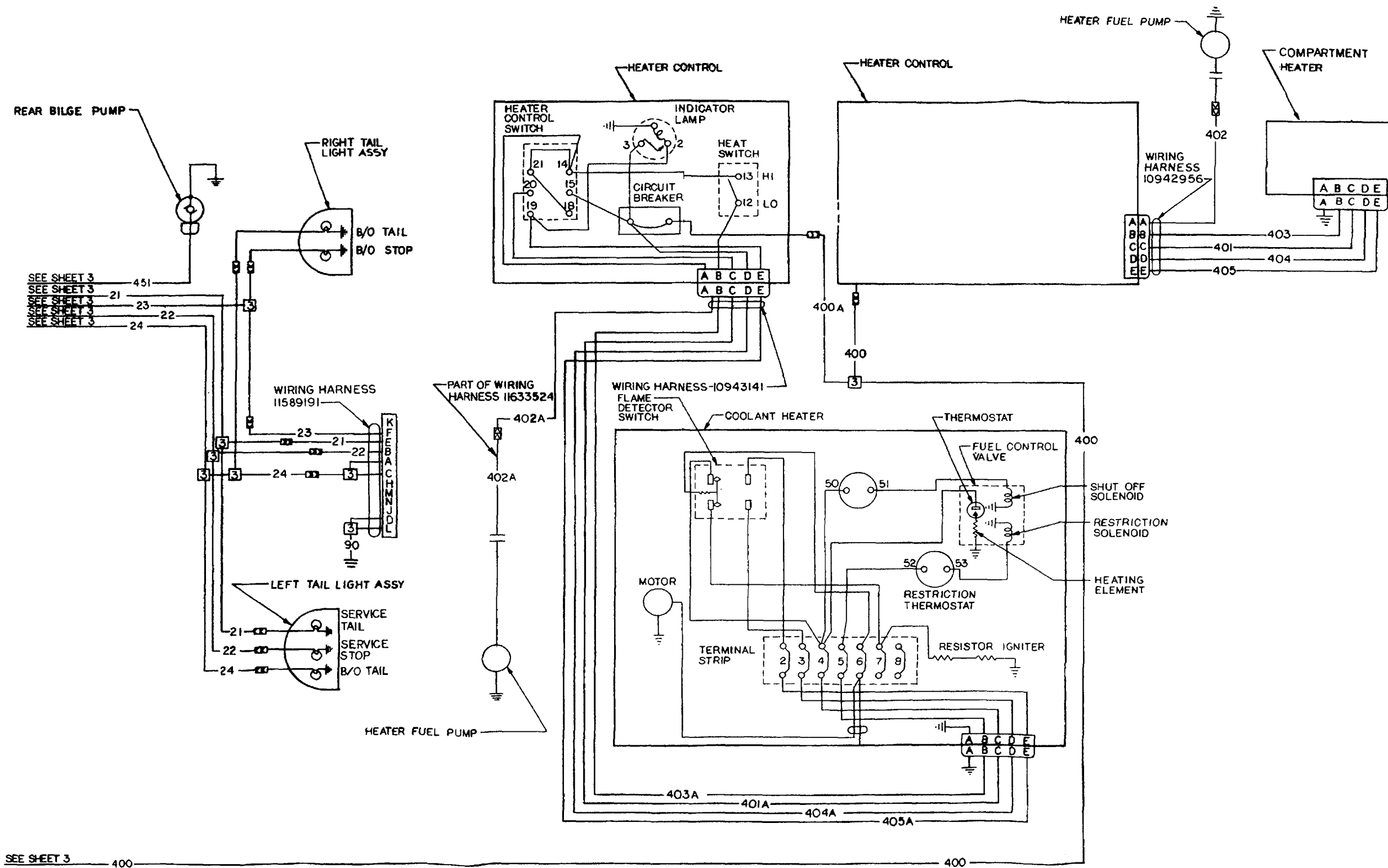
M1064 ELECTRICAL WIRING DIAGRAM (200 AMP)





M1064 ELECTRICAL WIRING DIAGRAM (200 AMP)



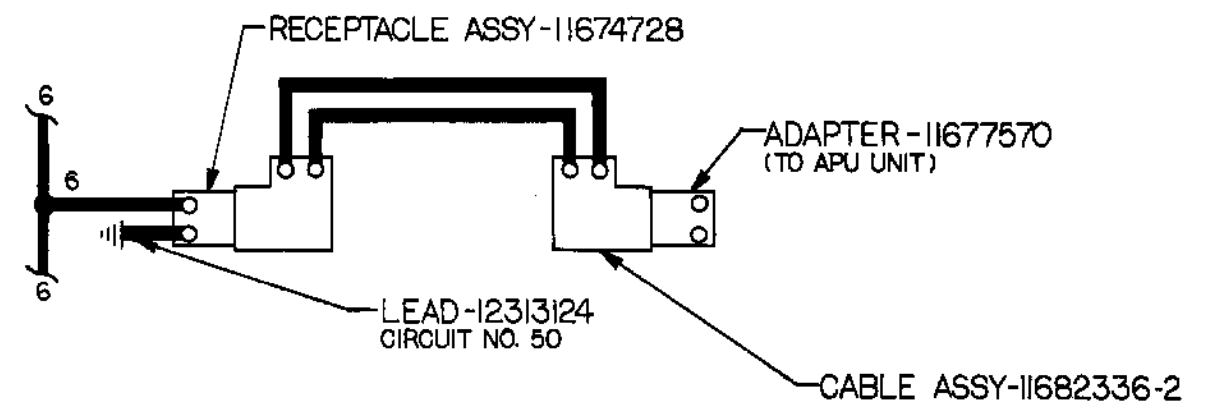


SEE SHEET 3 400

M1064 ELECTRICAL WIRING DIAGRAM (200 AMP)  
FO-5 (Sheet 4 of 4)





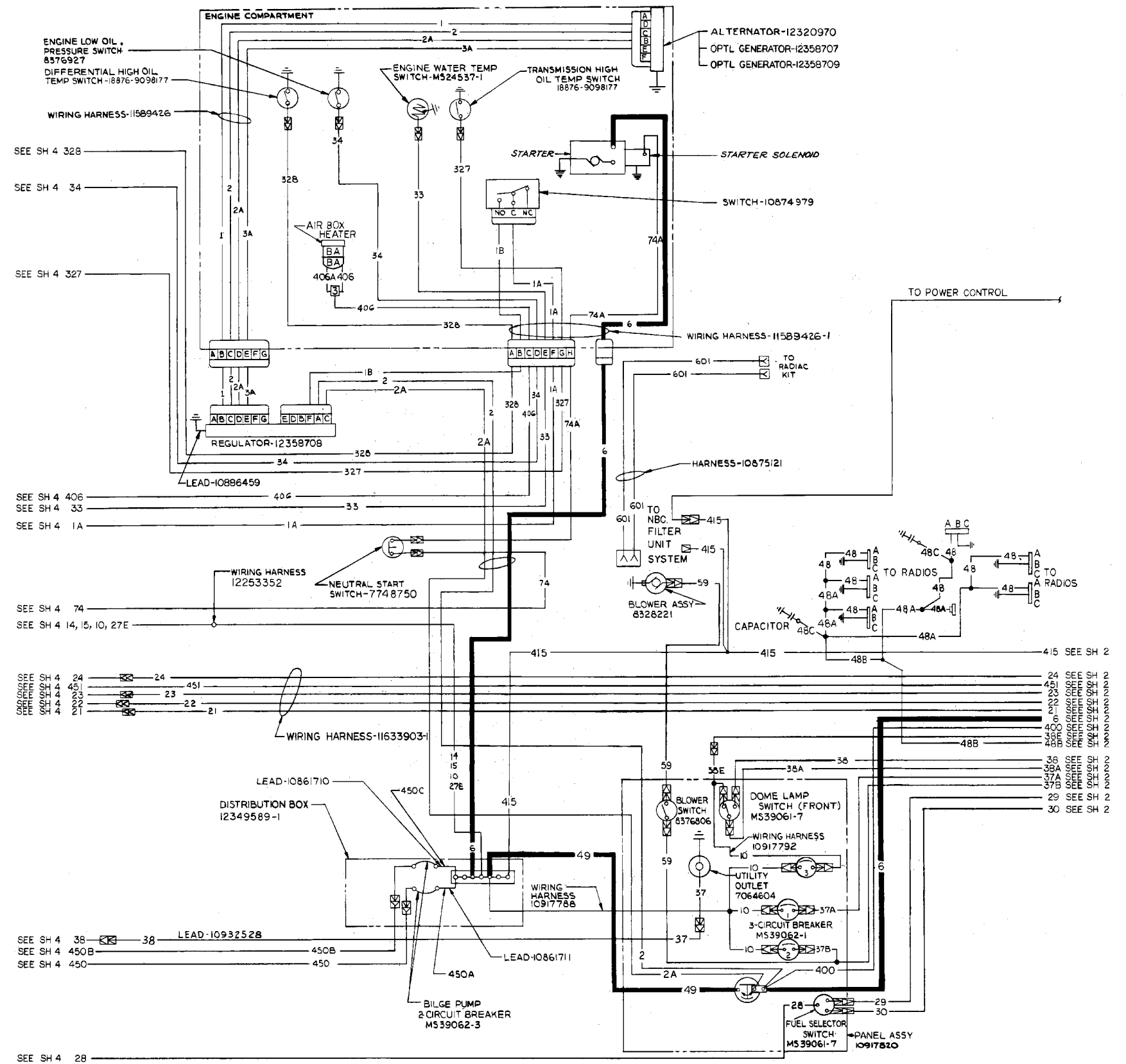


**DETAIL A**

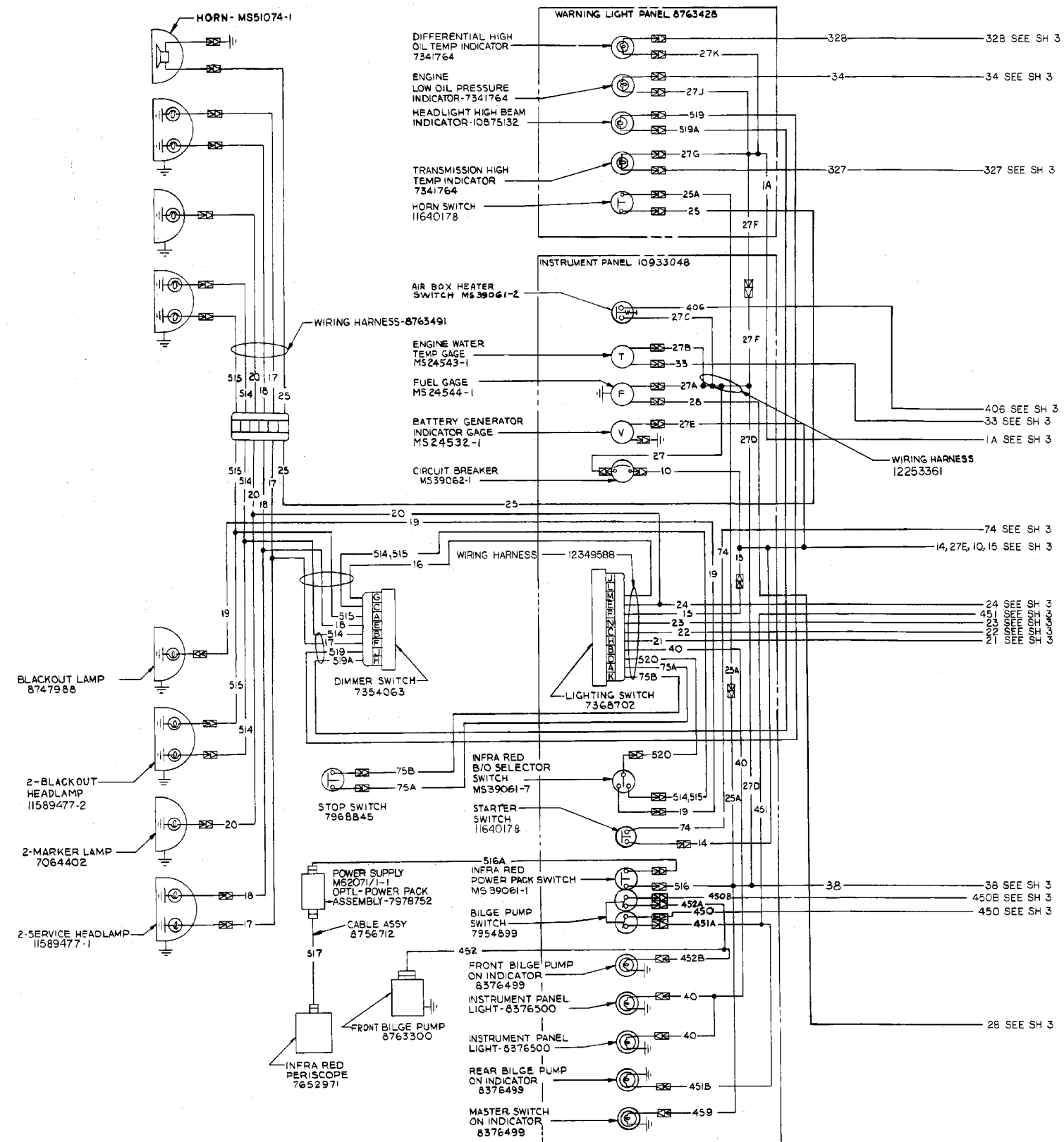












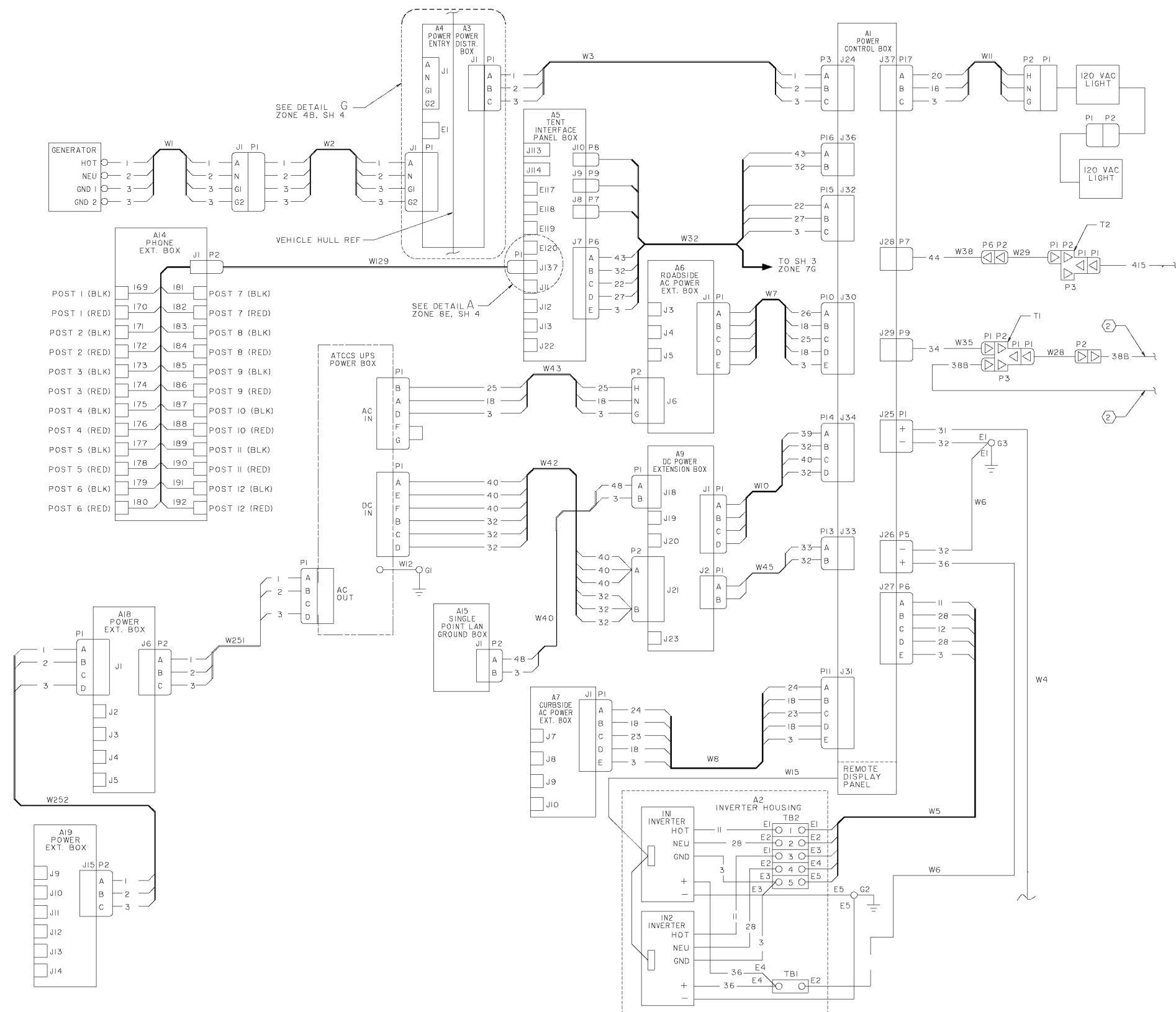




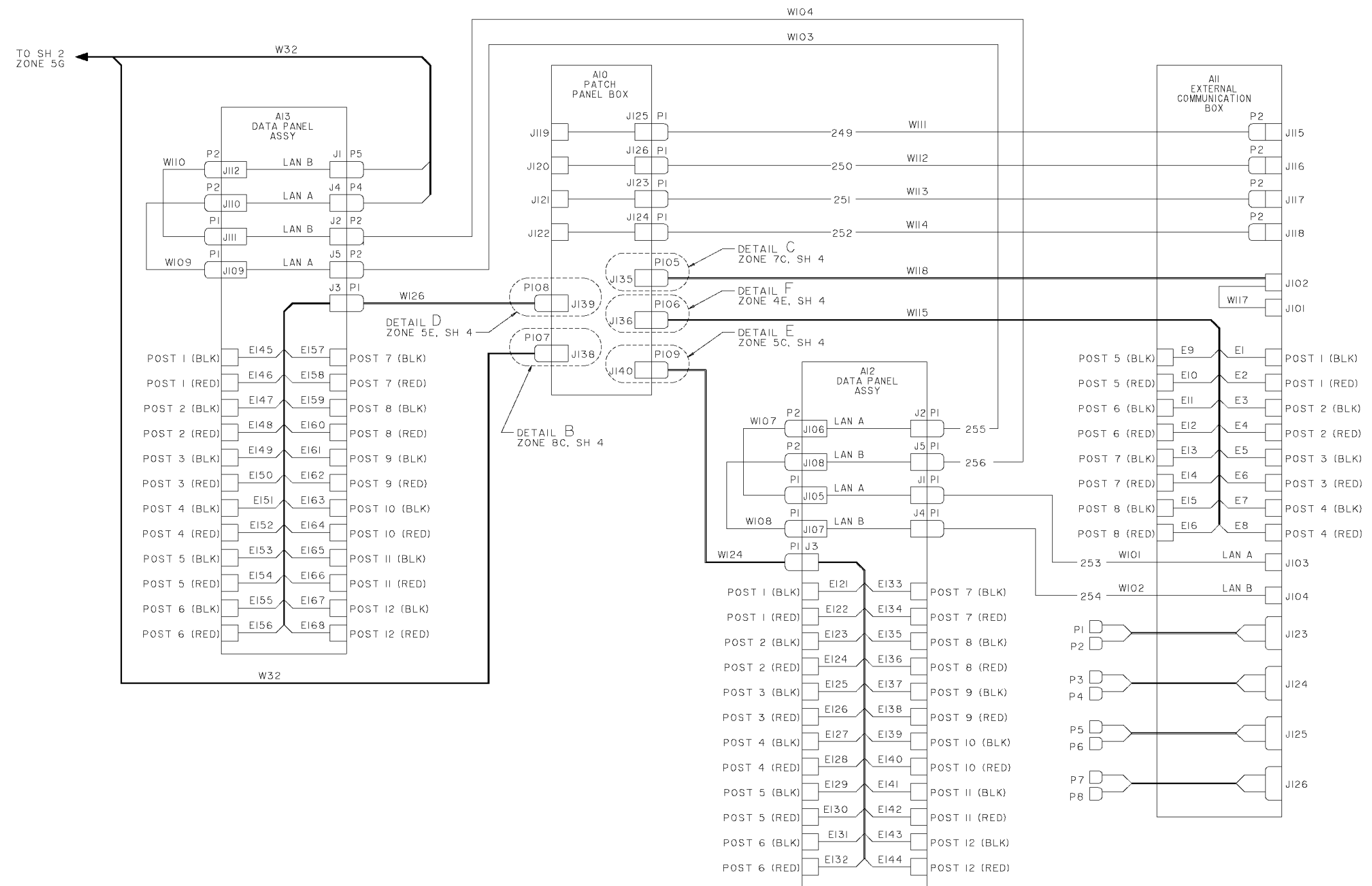
| REF DESIG. | NOMENCLATURE                    | PART NUMBER | ZONE, SH    |
|------------|---------------------------------|-------------|-------------|
| A1         | POWER CONTROL ENCLOSURE         | I2408455-1  | 4H, SH 2    |
| A2         | INVERTER HOUSING                | I2383973    | 4B, SH 2    |
| A3         | POWER DISTRIBUTION BOX          | I2383977    | 6H, SH 2    |
| A4         | POWER ENTRY                     | I2383982    | 6H, SH 2    |
| A5         | TENT INTERFACE PANEL BOX        | I2383862-1  | 5G, SH 2    |
| A6         | ROADSIDE AC POWER EXTENSION BOX | I2383854-1  | 5F, SH 2    |
| A7         | CURBSIDE AC POWER EXTENSION BOX | I2383854-2  | 5C, SH 2    |
|            |                                 |             |             |
| A9         | DC POWER EXTENSION BOX          | I2383859    | 5E, SH 2    |
| A10        | PATCH PANEL BOX                 | I2383948    | 5G, SH 3    |
| A11        | EXTERNAL COMMUNICATION BOX      | I2383967-1  | 3G, SH 3    |
| A12        | DATA PANEL ASSY                 | I2383883-3  | 4E, SH 3    |
| A13        | DATA PANEL ASSY                 | I2383883-4  | 6G, SH 3    |
| A14        | PHONE EXTENSION BOX             | I2383919    | 7F, SH 2    |
| A15        | SINGLE POINT LAN GROUND BOX     | I2383920-1  | 6C, SH 2    |
| A18        | POWER EXTENSION BOX             | I2408396    | 6C, SH 2    |
| A19        | POWER EXTENSION BOX             | I2408397    | 6B, SH 2    |
|            |                                 |             |             |
| ---        | ATCCS UPS POWER BOX             | -----       | 6F, SH 2    |
| ---        | VEHICLE BATTERY                 | -----       | 3B, SH 2    |
| W1         | EXTERNAL POWER INPUT PIGTAIL    | I2383915    | 8G, SH 2    |
| W2         | EXTERNAL AC POWER CABLE         | I2383864    | 7G, SH 2    |
| W3         | POWER DISTRIBUTION CABLE        | I2383899    | 5H, SH 2    |
| W4         | DC BATTERY CABLE                | I2382525    | 3B, SH 2    |
| W5         | INVERTER AC CABLE               | I2383900    | 3B, SH 2    |
| W6         | INVERTER DC CABLE               | I2382524    | 3B,3E, SH 2 |
| W7         | AC POWER EXTENSION CABLE        | I2384084-1  | 4F, SH 2    |
| W8         | AC POWER EXTENSION CABLE        | I2384084-2  | 5C, SH 2    |
|            |                                 |             |             |
| W10        | DC POWER EXTENSION CABLE        | I2384082-2  | 4E, SH 2    |
| W11        | AC LIGHT CABLE                  | I2383861    | 3H, SH 2    |
| W12        | GROUND STRAP                    | I2383863    | 6D, SH 2    |
| W13        | CABLE ASSY POWER INPUT          | I2382097    | 4D, SH 4    |
| W14        | CABLE ASSY POWER OUTPUT         | I2382099    | 4C, SH 4    |
| W15        | SPECIAL PURPOSE CABLE ASSY      | I2384233    | 4C, SH 2    |
| W28        | BLACKOUT LIGHT ADAPTER CABLE    | I2383880-1  | 2F, SH 2    |
| W29        | BLACKOUT LIGHT ADAPTER CABLE    | I2383880-2  | 2F, SH 2    |
| W32        | TENT INTERFACE PANEL CABLE      | I2384081    | 5G, SH 2    |
| W35        | BLACKOUT CABLE                  | I2383904    | 3F, SH 2    |
| W38        | DC MASTER SWITCH CABLE          | I2383913    | 3F, SH 2    |
| W40        | SINGLE POINT LAN CABLE          | I2383924    | 6C, SH 2    |
|            |                                 |             |             |
| W42        | DC INPUT CABLE                  | I2383978-1  | 5E, SH 2    |
| W43        | AC INPUT CABLE                  | I2383979-1  | 5F, SH 2    |
| W45        | CABLE ASSY                      | I2384083    | 4D, SH 2    |
|            |                                 |             |             |
| W101       | LAN A CABLE                     | I2383870-3  | 3E, SH 3    |
| W102       | LAN B CABLE                     | I2383870-4  | 3D, SH 3    |
| W103       | LAN A CABLE                     | I2383871-9  | 4H, SH 3    |
| W104       | LAN B CABLE                     | I2383871-10 | 4G, SH 3    |

| REF DESIG. | NOMENCLATURE              | PART NUMBER | ZONE, SH |
|------------|---------------------------|-------------|----------|
| W107       | LAN JUMPER CABLE          | I2383871-11 | 5E, SH 3 |
| W108       | LAN JUMPER CABLE          | I2383871-12 | 5E, SH 3 |
| W109       | LAN JUMPER CABLE          | I2383871-13 | 7G, SH 3 |
| W110       | LAN JUMPER CABLE          | I2383871-14 | 7F, SH 3 |
| W111       | RF1 CABLE                 | I2383869-1  | 4G, SH 3 |
| W112       | RF2 CABLE                 | I2383869-2  | 4G, SH 3 |
| W113       | RF3 CABLE                 | I2383869-3  | 4G, SH 3 |
| W114       | RF4 CABLE                 | I2383869-4  | 4F, SH 3 |
| W115       | BINDING POSTS CABLE       | I2383908    | 4F, SH 3 |
| W117       | CABLE HOCK CABLE ASSY     | I2383868    | 3F, SH 3 |
| W118       | CABLE HOCK CABLE ASSY     | I2383909    | 4F, SH 3 |
| W124       | DATA PANEL CABLE ASSY     | I2384086-1  | 6F, SH 3 |
| W126       | DATA PANEL CABLE ASSY     | I2384086-2  | 5E, SH 3 |
| W129       | PHONE BOX EXTENSION CABLE | I2383918    | 6F, SH 2 |
| W251       | POWER EXTENSION CABLE     | I2408389-1  | 6C, SH 2 |
| W252       | POWER EXTENSION CABLE     | I2408389-2  | 6B, SH 2 |

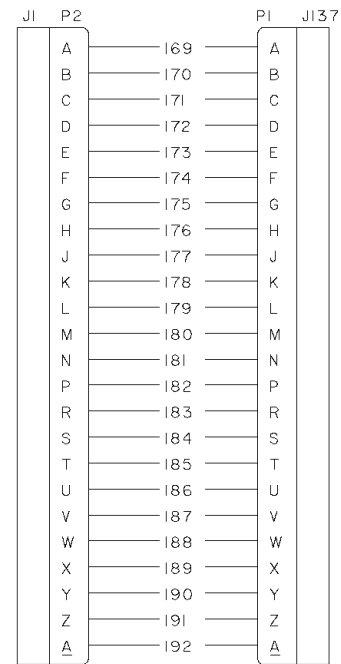




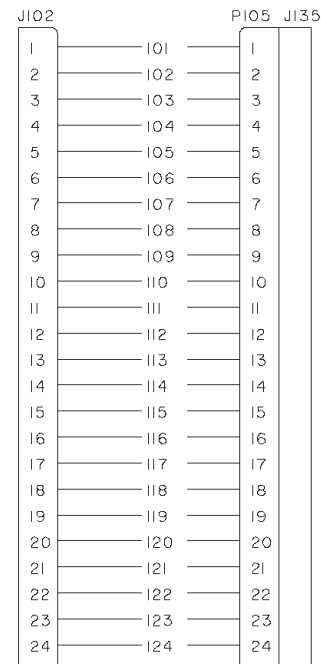




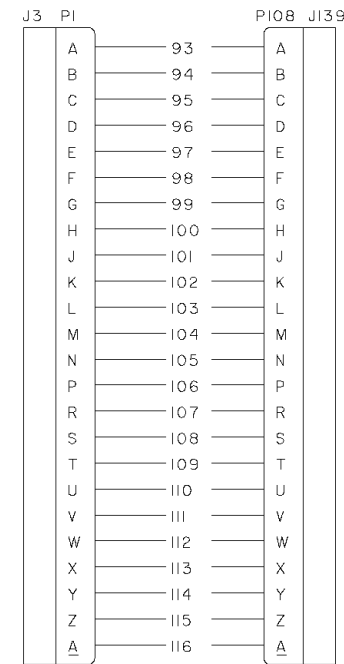




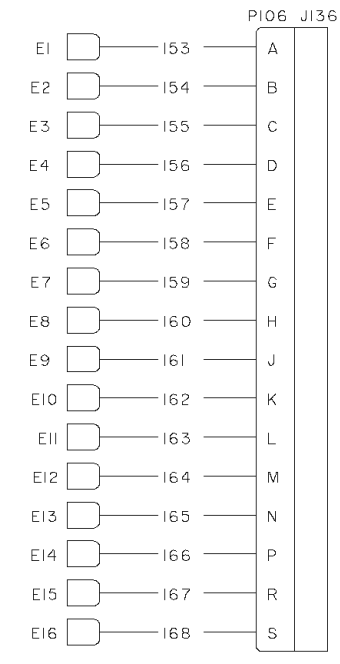
DETAIL A  
PINOUTS FOR A14J1 AND A10J137  
ZONE 6F, SH 2



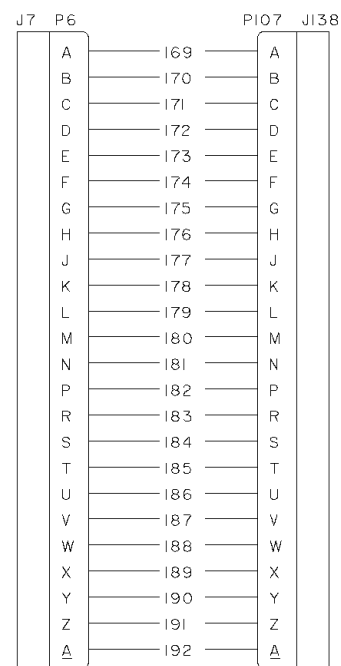
DETAIL C  
PINOUTS FOR A11J102 AND A10J135  
ZONE 4F, SH 3



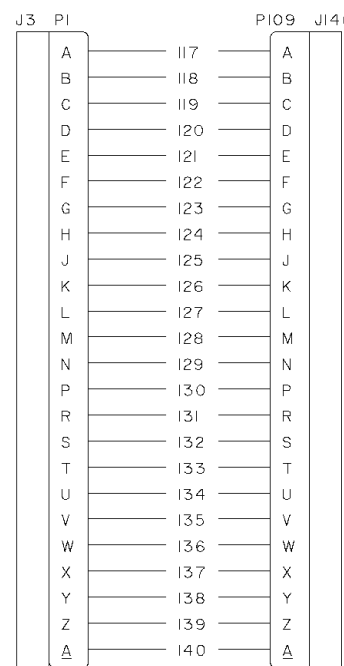
DETAIL D  
PINOUTS FOR A13J3 AND A10J139  
ZONE 6F, SH 3



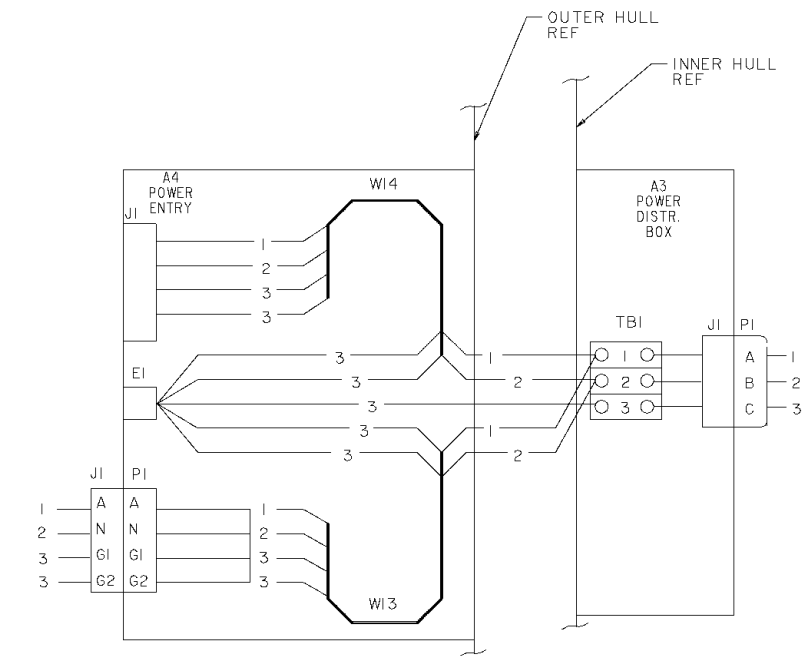
DETAIL F  
PINOUTS FOR A11 POST AND A10J136  
ZONE 5F, SH 3



DETAIL B  
PINOUTS FOR A5J8 AND A10J138  
ZONE 5E, SH 3



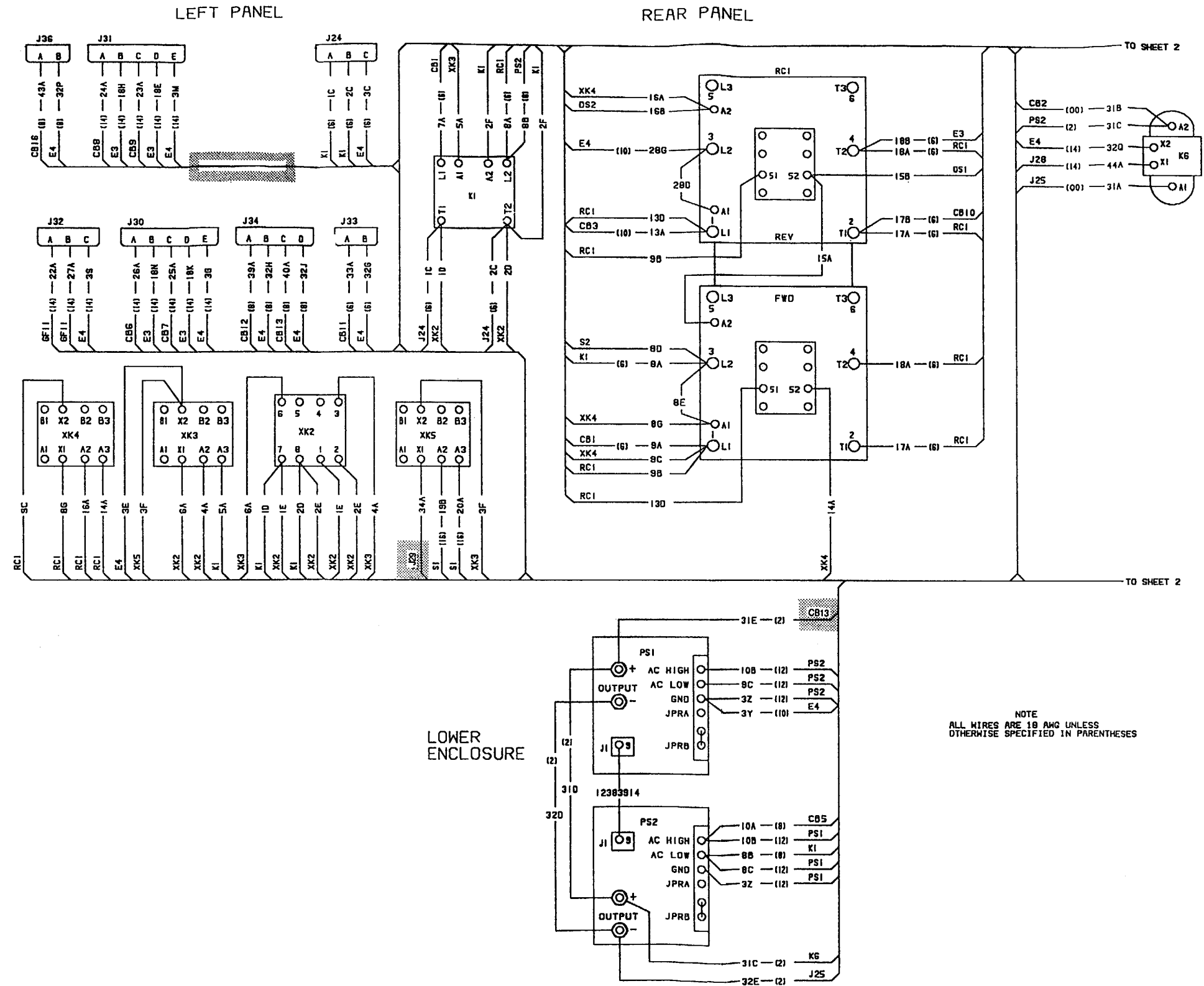
DETAIL E  
PINOUTS FOR A12J3 AND A10J140  
ZONE 4F, SH 3



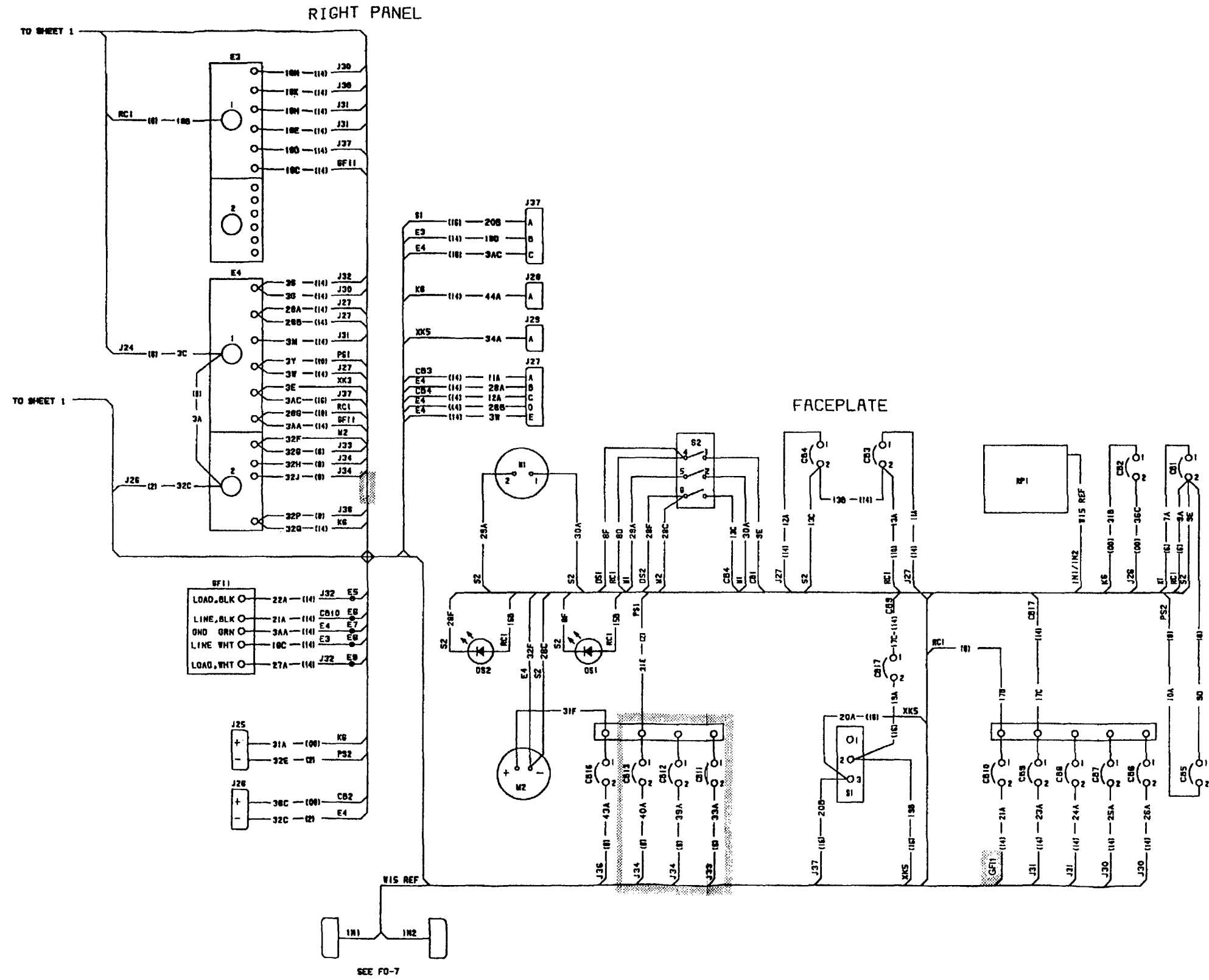
DETAIL G  
ZONE 6H, SH 2



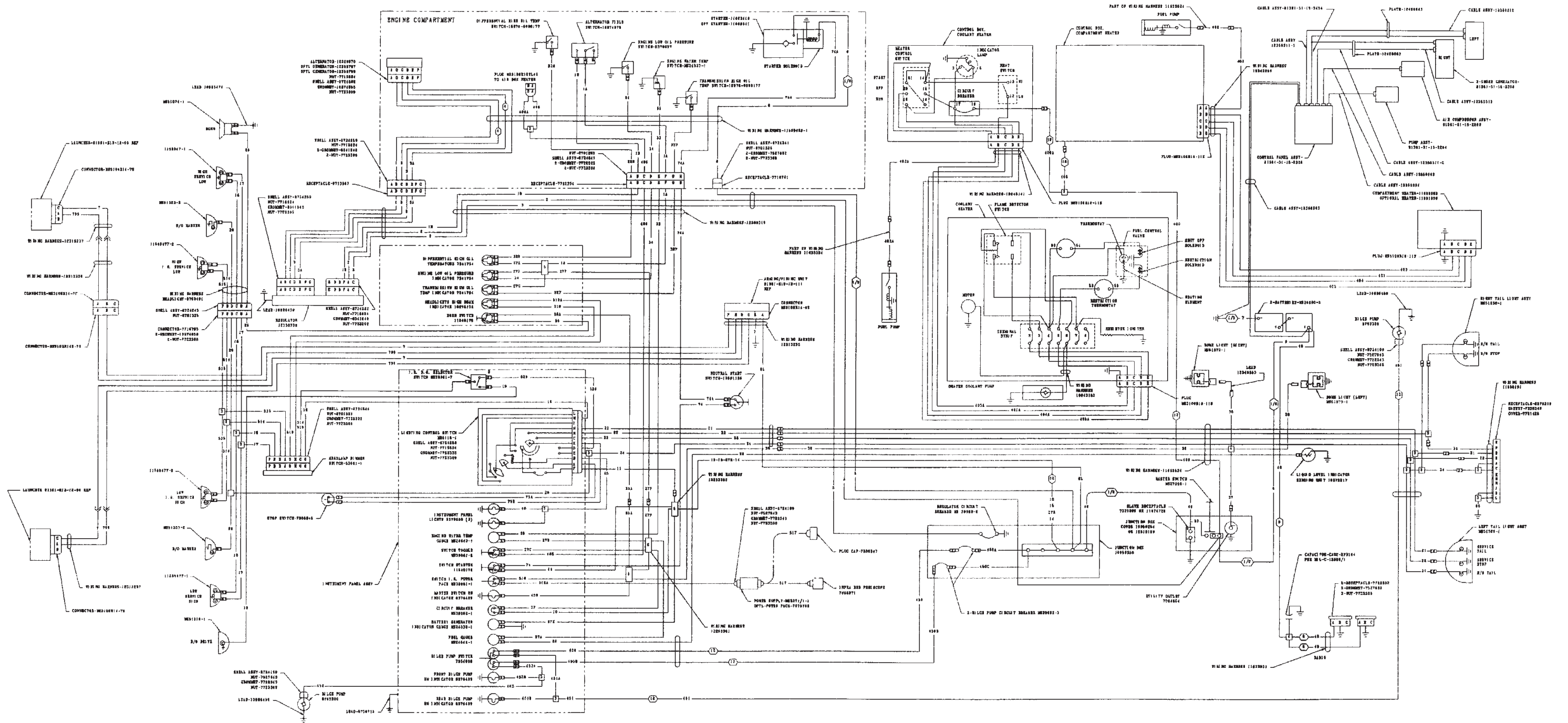














|  |   |      |
|--|---|------|
| <b>RECOMMENDED CHANGES TO PUBLICATIONS<br/>AND BLANK FORMS</b><br><br><b>For use of this form, see AR 25-30; the proponent agency is<br/>ODISC4.</b> | Use Part II (reverse) for Repair Parts and Special Tools Lists (RPSTL) and Supply Catalogs/Supply Manuals SC/SM). | Date |
| <b>TO:</b> (Forward to proponent of publication or form) (Include ZIP Code)  | <b>FROM:</b> (Activity and location) (include ZIP code)   |      |

**PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS**

|   |                        |   |
|---|------------------------|---|
| PUBLICATION/FORM NUMBER<br>TM 9-2350-261-20-4 | DATE<br>26 AUGUST 2005 | TITLE<br>Unit Maintenance Manual for M113A2, M577A2, M1064, M1068, M1059 and M901A1 |
|---|------------------------|---|

| ITEM      | PAGE | PARA | LINE | FIGURE NO. | TABLE | RECOMMENDED CHANGES AND REASON   |
|-----------|------|------|------|------------|-------|--|
| 0052 00-4 |      |      |      |            |       | Inspection Step 1 WP reference should be (WP 0003 00)<br><br><div style="text-align: center; font-size: 4em; opacity: 0.5;">             SAMPLE           </div> |

*\*Reference to line numbers within the paragraph or subparagraph.*

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



|  |   |             |
|--|---|-------------|
| <b>TO: (Forward direct to addressee listed in publication)</b> | <b>FROM: (Activity and location) (Include Zip Code)</b> | <b>Date</b> |
|--|---|-------------|

**PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS**

|  |                               |  |
|--|-------------------------------|--|
| <b>PUBLICATION/FORM NUMBER</b><br>TM 9-2350-261-20-4 | <b>DATE</b><br>26 AUGUST 2005 | <b>TITLE</b><br>Unit Maintenance Manual for M113A2, M577A2, M1064, M1068, M1059 and M901A1 |
|--|-------------------------------|--|

| <b>PAGE NO.</b> | <b>COLM NO.</b> | <b>LINE NO.</b> | <b>NATIONAL STOCK NUMBER</b> | <b>REFERENCE NO.</b> | <b>FIGURE NO.</b> | <b>ITEM NO.</b> | <b>TOTAL NO. OF MAJOR ITEMS SUPPORTED</b> | <b>RECOMMENDED ACTION</b> |
|-----------------|-----------------|-----------------|------------------------------|----------------------|-------------------|-----------------|---|---------------------------|
|-----------------|-----------------|-----------------|------------------------------|----------------------|-------------------|-----------------|---|---------------------------|

|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|

**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**

|                              |   |                  |
|------------------------------|---|------------------|
| <b>TYPED, GRADE OR TITLE</b> | <b>TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION</b> | <b>SIGNATURE</b> |
|------------------------------|---|------------------|

|  |  |      |
|--|--|------|
| <b>RECOMMENDED CHANGES TO PUBLICATIONS<br/>AND BLANK FORMS</b><br><br><b>For use of this form, see AR 25-30; the proponent agency is<br/>ODISC4.</b> | Use Part II (reverse) for Repair<br>Parts and Special Tools Lists<br>(RPSTL) and Supply<br>Catalogs/Supply Manuals SC/SM). | Date |
|--|--|------|

|   |   |
|---|---|
| <b>TO:</b> (Forward to proponent of publication or form) (Include ZIP Code) | <b>FROM:</b> (Activity and location) (include ZIP code) |
|---|---|

**PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS**

|   |                        |   |
|---|------------------------|---|
| PUBLICATION/FORM NUMBER<br>TM 9-2350-261-20-4 | DATE<br>26 AUGUST 2005 | TITLE<br>Unit Maintenance Manual for<br>M113A2, M577A2, M1064, M1068,<br>M1059 and M901A1 |
|---|------------------------|---|

| ITEM | PAGE | PARA | LINE | FIGURE<br>NO. | TABLE | RECOMMENDED CHANGES AND REASON |
|------|------|------|------|---------------|-------|--------------------------------|
|      |      |      |      |               |       |                                |

*\*Reference to line numbers within the paragraph or subparagraph.*

|                       |   |           |
|-----------------------|---|-----------|
| TYPED, GRADE OR TITLE | TELEPHONE EXCHANGE/AUTOVON, PLUS<br>EXTENSION | SIGNATURE |
|-----------------------|---|-----------|

|  |   |             |
|--|---|-------------|
| <b>TO: (Forward direct to addressee listed in publication)</b> | <b>FROM: (Activity and location) (Include Zip Code)</b> | <b>Date</b> |
|--|---|-------------|

**PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS**

|  |                               |  |
|--|-------------------------------|--|
| <b>PUBLICATION/FORM NUMBER</b><br>TM 9-2350-261-20-4 | <b>DATE</b><br>26 AUGUST 2005 | <b>TITLE</b><br>Unit Maintenance Manual for M113A2, M577A2, M1064, M1068, M1059 and M901A1 |
|--|-------------------------------|--|

| <b>PAGE NO.</b> | <b>COLM NO.</b> | <b>LINE NO.</b> | <b>NATIONAL STOCK NUMBER</b> | <b>REFERENCE NO.</b> | <b>FIGURE NO.</b> | <b>ITEM NO.</b> | <b>TOTAL NO. OF MAJOR ITEMS SUPPORTED</b> | <b>RECOMMENDED ACTION</b> |
|-----------------|-----------------|-----------------|------------------------------|----------------------|-------------------|-----------------|---|---------------------------|
|                 |                 |                 |                              |                      |                   |                 |   |                           |

**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).*

|                              |   |                  |
|------------------------------|---|------------------|
| <b>TYPED, GRADE OR TITLE</b> | <b>TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION</b> | <b>SIGNATURE</b> |
|                              |   |                  |

|  |  |      |
|--|--|------|
| <b>RECOMMENDED CHANGES TO PUBLICATIONS<br/>AND BLANK FORMS</b><br><br><b>For use of this form, see AR 25-30; the proponent agency is<br/>ODISC4.</b> | Use Part II (reverse) for Repair<br>Parts and Special Tools Lists<br>(RPSTL) and Supply<br>Catalogs/Supply Manuals SC/SM). | Date |
|--|--|------|

|   |   |
|---|---|
| <b>TO:</b> (Forward to proponent of publication or form) (Include ZIP Code) | <b>FROM:</b> (Activity and location) (include ZIP code) |
|---|---|

**PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS**

|   |                        |   |
|---|------------------------|---|
| PUBLICATION/FORM NUMBER<br>TM 9-2350-261-20-4 | DATE<br>26 AUGUST 2005 | TITLE<br>Unit Maintenance Manual for<br>M113A2, M577A2, M1064, M1068,<br>M1059 and M901A1 |
|---|------------------------|---|

| ITEM | PAGE | PARA | LINE | FIGURE<br>NO. | TABLE | RECOMMENDED CHANGES AND REASON |
|------|------|------|------|---------------|-------|--------------------------------|
|      |      |      |      |               |       |                                |

*\*Reference to line numbers within the paragraph or subparagraph.*

|                       |   |           |
|-----------------------|---|-----------|
| TYPED, GRADE OR TITLE | TELEPHONE EXCHANGE/AUTOVON, PLUS<br>EXTENSION | SIGNATURE |
|-----------------------|---|-----------|

|  |   |             |
|--|---|-------------|
| <b>TO: (Forward direct to addressee listed in publication)</b> | <b>FROM: (Activity and location) (Include Zip Code)</b> | <b>Date</b> |
|--|---|-------------|

**PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS**

|  |                               |  |
|--|-------------------------------|--|
| <b>PUBLICATION/FORM NUMBER</b><br>TM 9-2350-261-20-4 | <b>DATE</b><br>26 AUGUST 2005 | <b>TITLE</b><br>Unit Maintenance Manual for M113A2, M577A2, M1064, M1068, M1059 and M901A1 |
|--|-------------------------------|--|

| 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, GRADE OR TITLE | TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION | SIGNATURE |
|-----------------------|--|-----------|



|  |   |             |
|--|---|-------------|
| <b>TO: (Forward direct to addressee listed in publication)</b> | <b>FROM: (Activity and location) (Include Zip Code)</b> | <b>Date</b> |
|--|---|-------------|

**PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS**

|  |                               |  |
|--|-------------------------------|--|
| <b>PUBLICATION/FORM NUMBER</b><br>TM 9-2350-261-20-4 | <b>DATE</b><br>26 AUGUST 2005 | <b>TITLE</b><br>Unit Maintenance Manual for M113A2, M577A2, M1064, M1068, M1059 and M901A1 |
|--|-------------------------------|--|

| 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, GRADE OR TITLE | TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION | SIGNATURE |
|-----------------------|--|-----------|

|  |  |   |
|--|--|---|
| <b>RECOMMENDED CHANGES TO PUBLICATIONS<br/>AND BLANK FORMS</b><br><br><b>For use of this form, see AR 25-30; the proponent agency is<br/>ODISC4.</b> | Use Part II (reverse) for Repair<br>Parts and Special Tools Lists<br>(RPSTL) and Supply<br>Catalogs/Supply Manuals SC/SM). | Date  |
| <b>TO:</b> (Forward to proponent of publication or form) (Include ZIP Code)  |  | <b>FROM:</b> (Activity and location) (include ZIP code) |

**PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS**

|   |                        |   |
|---|------------------------|---|
| PUBLICATION/FORM NUMBER<br>TM 9-2350-261-20-4 | DATE<br>26 AUGUST 2005 | TITLE<br>Unit Maintenance Manual for<br>M113A2, M577A2, M1064, M1068,<br>M1059 and M901A1 |
|---|------------------------|---|

| ITEM | PAGE | PARA | LINE | FIGURE<br>NO. | TABLE | RECOMMENDED CHANGES AND REASON |
|------|------|------|------|---------------|-------|--------------------------------|
|      |      |      |      |               |       |                                |

*\*Reference to line numbers within the paragraph or subparagraph.*

|                       |   |           |
|-----------------------|---|-----------|
| TYPED, GRADE OR TITLE | TELEPHONE EXCHANGE/AUTOVON, PLUS<br>EXTENSION | SIGNATURE |
|-----------------------|---|-----------|



|  |   |             |
|--|---|-------------|
| <b>TO: (Forward direct to addressee listed in publication)</b> | <b>FROM: (Activity and location) (Include Zip Code)</b> | <b>Date</b> |
|--|---|-------------|

**PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS**

|  |                               |  |
|--|-------------------------------|--|
| <b>PUBLICATION/FORM NUMBER</b><br>TM 9-2350-261-20-4 | <b>DATE</b><br>26 AUGUST 2005 | <b>TITLE</b><br>Unit Maintenance Manual for M113A2, M577A2, M1064, M1068, M1059 and M901A1 |
|--|-------------------------------|--|


| 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, GRADE OR TITLE | TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION | SIGNATURE |
|-----------------------|--|-----------|

By Order of the Secretary of the Army:

Official:

  
SANDRA R. RILEY  
*Administrative Assistant to the  
Secretary of the Army*  
0520105

PETER J. SCHOOMAKER  
*General, United States Army  
Chief of Staff*

**DISTRIBUTION:** To be distributed in accordance with the initial distribution requirements for IDN: **371200**, requirements for TM 9-2350-261-20-4.

# 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

$5/9 (°F - 32) = °C$   
 212° Fahrenheit is equivalent to 100° Celsius  
 90° Fahrenheit is equivalent to 32.2° Celsius  
 32° Fahrenheit is equivalent to 0° Celsius  
 $(9/5 \times °C) + 32 = °F$

## APPROXIMATE CONVERSION FACTORS

| 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       |

