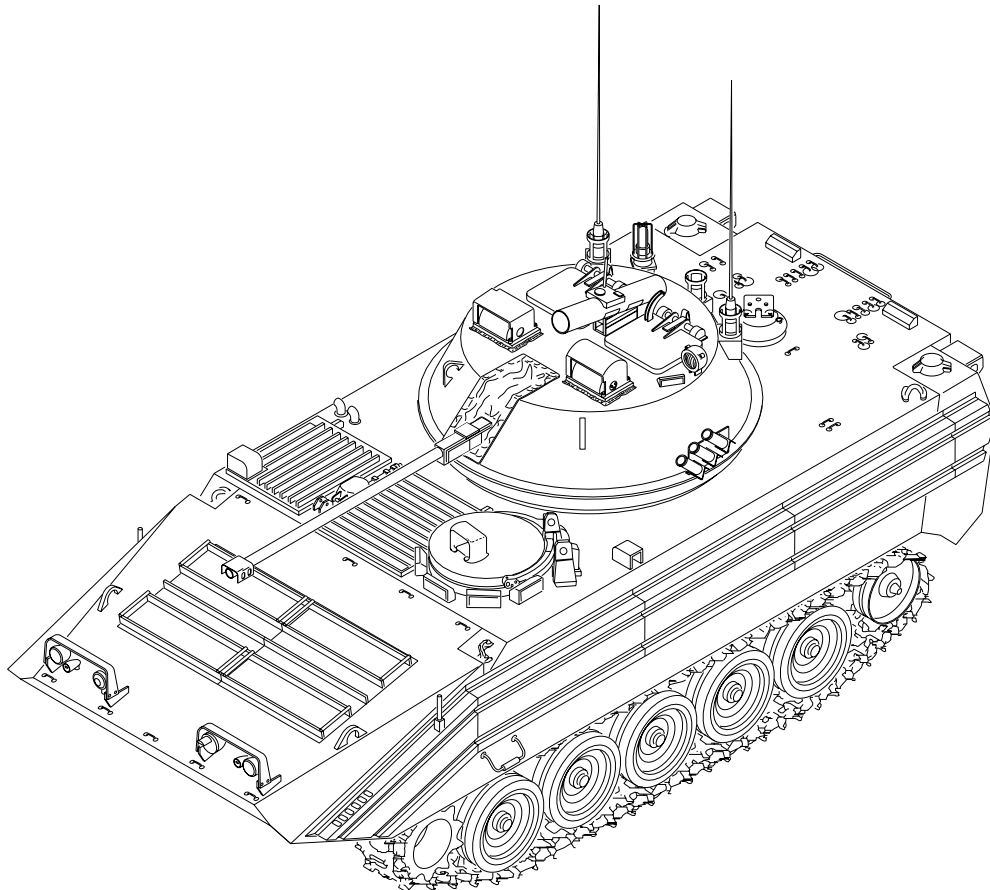


**TECHNICAL MANUAL**

**UNIT MAINTENANCE MANUAL**

**FOR  
OPPOSING FORCES SURROGATE VEHICLE (OSV)  
M113A3/BMP-2  
6920-01-420-4716 (EIC AUK)  
HULL**



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HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, D.C., 26 JULY 2001

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| <br>CHAPTER 29 — UNIT MAINTENANCE INSTRUCTIONS FOR HULL DRAIN PLUGS                   |                        |
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**CHAPTER 14**  
**UNIT MAINTENANCE INSTRUCTIONS**  
**FOR GAUGES**

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**WORK PACKAGE INDEX**

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|---|---------------------|
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**SERVICE SPEEDOMETER/TACHOMETER CABLE FLEXIBLE CORE**

**0195 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0195 00-1).  
 Installation (page 0195 00-3).

**INITIAL SETUP:**

Maintenance Level  
 Unit

References  
 TM 9-2350-366-10-1

Tools and Special Tools  
 General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition  
 Master switch off (TM 9-2350-366-10-1)  
 Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Engine access cover plate removed (WP 0308 00)  
 Front VISMOD access doors removed (WP 0307 00)

Materials/Parts  
 Automotive grease (WP 0399 00, Item 11)  
 Gasket  
 Lockwasher (2)  
 Preformed packing

Personnel Required  
 Unit Mechanic 63T10

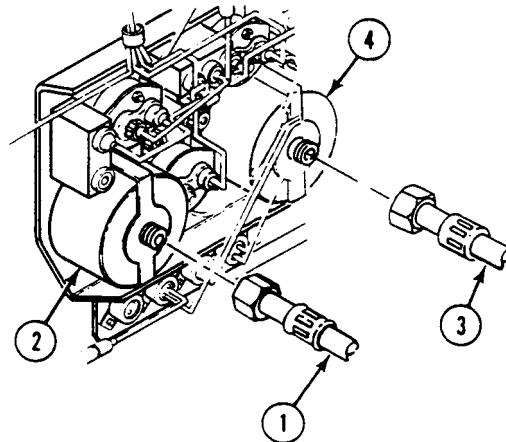
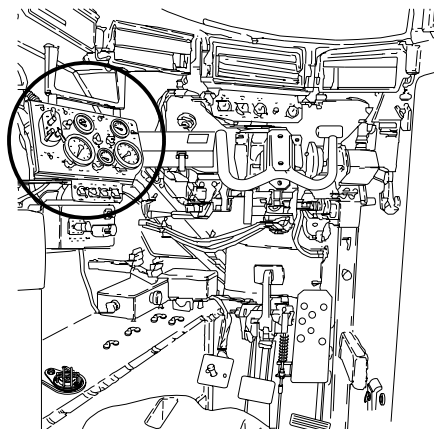
**SERVICING**

**REMOVAL**

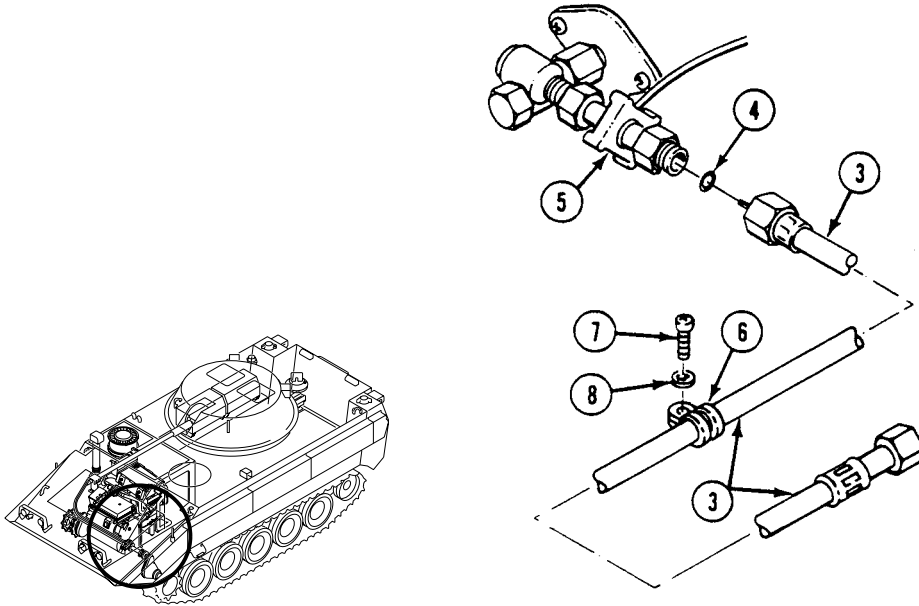
**NOTE**

**This task applies to both tachometer cable assembly and speedometer cable assembly core servicing. Perform only those steps referring to cable that requires servicing.**

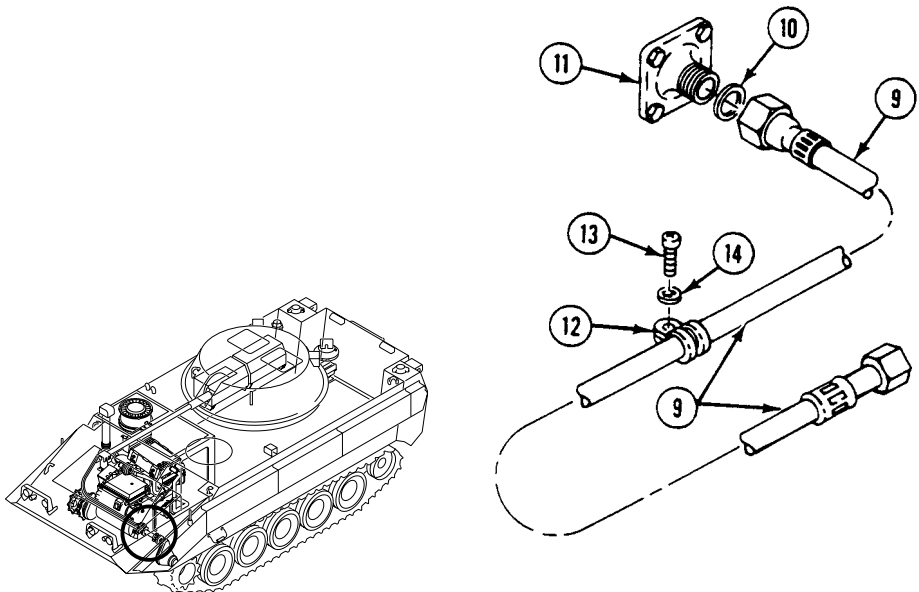
1. DISCONNECT TACHOMETER CABLE (1) FROM GAUGE (2) AND/OR SPEEDOMETER CABLE (3) FROM GAUGE (4).



2. REMOVE TACHOMETER CABLE (3) AND GASKET (4) FROM STE/ICE UNIT (5). DISCARD GASKET.

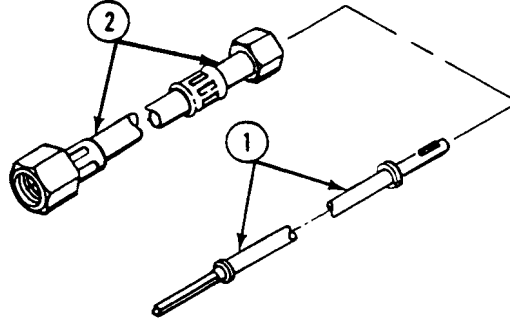


3. REMOVE SCREW (7), LOCKWASHER (8), AND CLAMP (6) FROM TACHOMETER CABLE (3). DISCARD LOCKWASHER.
4. REMOVE SPEEDOMETER CABLE (9) AND PREFORMED PACKING (10) FROM FINAL DRIVE ADAPTER (11). DISCARD PACKING.



5. REMOVE SCREW (13), LOCKWASHER (14), AND CLAMP (12) FROM SPEEDOMETER CABLE (9). DISCARD LOCKWASHER.

- REMOVE CORE (1) FROM CABLE HOUSING (2). IF CORE DOES NOT COME OUT FREELY, REPLACE CABLE ASSEMBLY (WP 0197 00) OR (WP 0201 00).

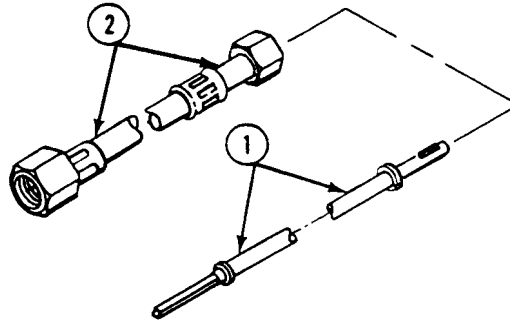


## INSTALLATION

### NOTE

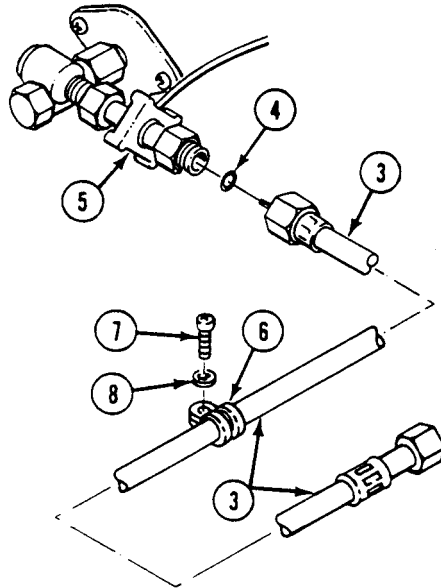
Grease lube gun may be used in Step 1.

- APPLY GREASE TO CORE (1).

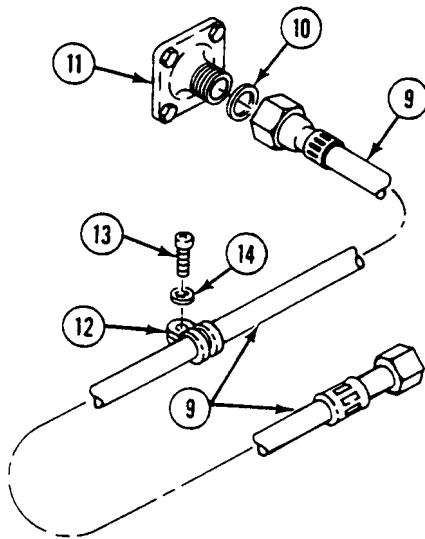


- INSTALL CORE (1) IN CABLE HOUSING (2) WITH ROTATING MOTION.

3. INSTALL TACHOMETER CABLE (3) AND NEW GASKET (4) ON STE/ICE UNIT (5).

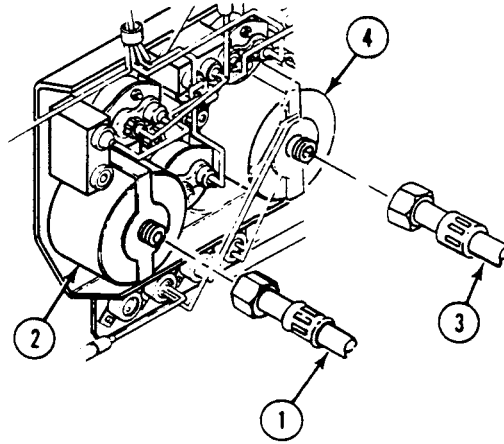


4. INSTALL CLAMP (6) ON TACHOMETER CABLE (3) WITH SCREW (7) AND NEW LOCKWASHER (8).
5. INSTALL SPEEDOMETER CABLE (9) AND NEW PREFORMED PACKING (10) ON FINAL DRIVE ADAPTER (11).



6. INSTALL CLAMP (12) ON SPEEDOMETER CABLE (9) WITH SCREW (13) AND NEW LOCKWASHER (14).

7. CONNECT TACHOMETER CABLE (1) TO GAUGE (2) AND/OR SPEEDOMETER CABLE (3) TO GAUGE (4).



8. START ENGINE. See TM 9-2350-366-10-1.
9. OPERATE VEHICLE TO CHECK THAT TACHOMETER GAUGE WORKS PROPERLY. TACHOMETER NEEDLE SHOULD NOT PULSATE.
10. OPERATE VEHICLE TO CHECK THAT SPEEDOMETER GAUGE WORKS PROPERLY.
11. STOP ENGINE. See TM 9-2350-366-10-1.
12. IF GAUGES DO NOT OPERATE PROPERLY, REPEAT TASK. IF PROBLEM IS NOT CORRECTED, REMOVE CABLE ASSEMBLY (WP 0197 00) OR (WP 0201 00).
13. INSTALL FRONT VISMOD ACCESS DOORS (WP 0307 00).
14. INSTALL ENGINE ACCESS COVER PLATE (WP 0308 00).

**END OF TASK**



**REPLACE SPEEDOMETER**

**0196 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0196 00-1).  
 Installation (page 0196 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

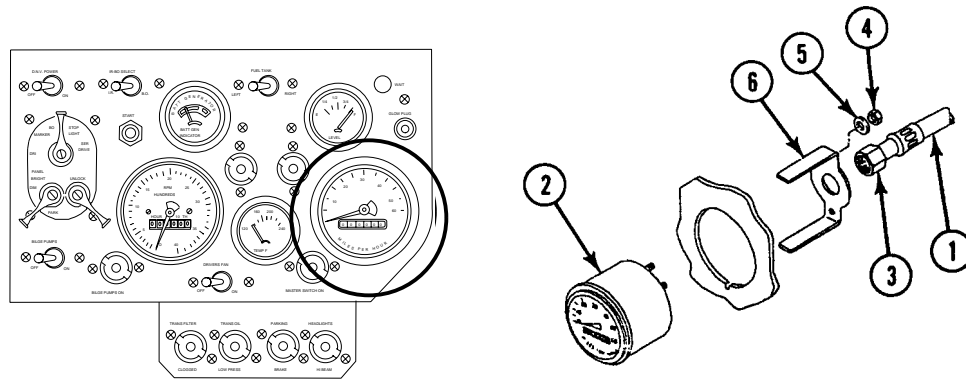
Personnel Required

Unit Mechanic 63T10

Vehicle blocked (TM 9-2350-366-10-1)

**REMOVAL**

1. DISCONNECT SPEEDOMETER CABLE (1) FROM REAR OF SPEEDOMETER (2) BY LOOSENING NUT (3).
2. REMOVE TWO NUTS (4), LOCK WASHERS (5), AND BRACKET (6) FROM REAR OF SPEEDOMETER (2).
3. REMOVE SPEEDOMETER (2) FROM FRONT OF INSTRUMENT PANEL.



**INSTALLATION**

1. INSTALL SPEEDOMETER (2) IN FRONT OF INSTRUMENT PANEL.
2. INSTALL BRACKET (6) ON REAR OF SPEEDOMETER (2) WITH TWO LOCK WASHERS (5) AND NUTS (4).
3. CONNECT SPEEDOMETER CABLE (1) TO REAR OF SPEEDOMETER (2) AND TIGHTEN NUT (3).
4. UNBLOCK VEHICLE. See TM 9-2350-366-10-1.
5. ROAD TEST VEHICLE. See TM 9-2350-366-10-1. CHECK FOR PROPER INSTALLATION OF SPEEDOMETER.

**END OF TASK**





**REPLACE SPEEDOMETER CABLE AND ADAPTER**

**0197 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0197 00-1).  
 Installation (page 0197 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

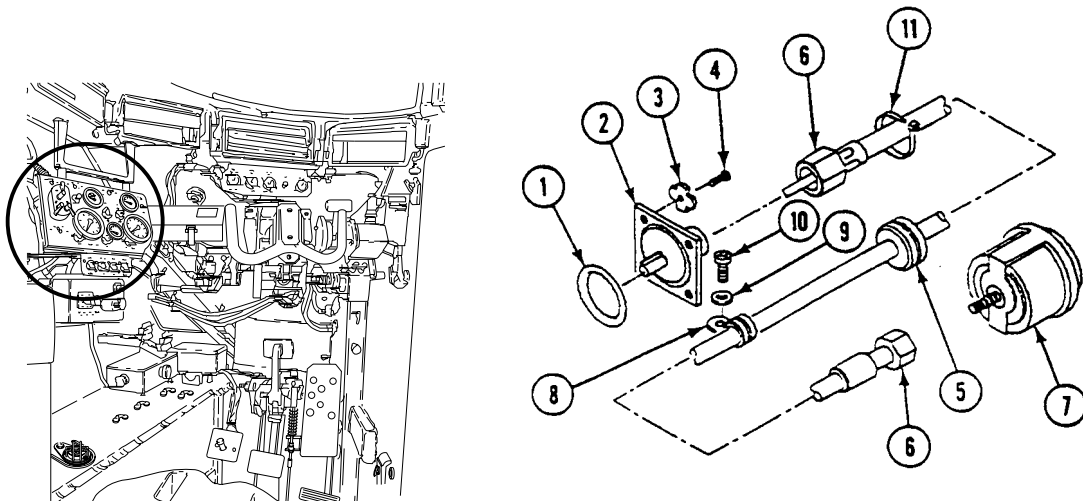
Cable  
 Grommet  
 Lockwasher  
 Preformed packing  
 Tab washer (4)  
 Strap

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked TM 9-2350-366-10-1)  
 Front VISMOD access doors removed (WP 0307 00)  
 Engine access cover plate removed (WP 0308 00)

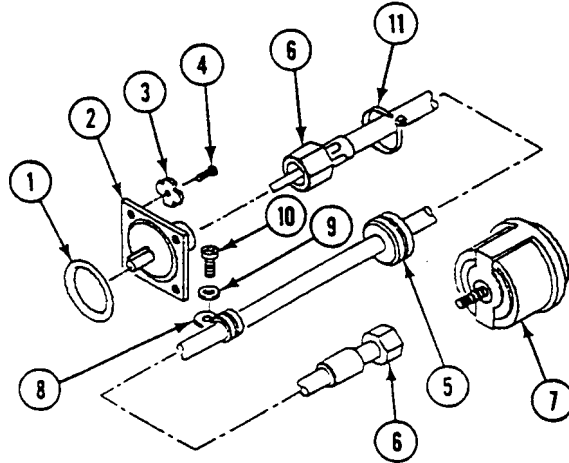
**REMOVAL**

1. REMOVE SCREW (10), LOCKWASHER (9), AND CLAMP (8) FROM BULKHEAD WELDNUT.
2. REMOVE STRAP (11) SECURING SPEEDOMETER CABLE (6) TO BILGE PUMP HOSE. DISCARD STRAP.
3. DISCONNECT SPEEDOMETER CABLE (6) FROM FINAL DRIVE ADAPTER (2) AND SPEEDOMETER (7). REMOVE CABLE FROM CLAMP (8) AND GROMMET (5). DISCARD GROMMET.
4. STRAIGHTEN FOUR TAB WASHERS (3). REMOVE FOUR SCREWS (4), TAB WASHERS (3), AND FINAL DRIVE ADAPTER (2) FROM FINAL DRIVE. DISCARD TAB WASHERS.
5. REMOVE PREFORMED PACKING (1) FROM FINAL DRIVE ADAPTER (2). DISCARD PREFORMED PACKING.



**INSTALLATION**

1. PLACE NEW PREFORMED PACKING (1) ON FINAL DRIVE ADAPTER (2).



2. INSTALL ADAPTER (2) ON FINAL DRIVE WITH FOUR NEW TAB WASHERS (3) AND SCREWS (4). BEND TABS ON EACH WASHER.

**NOTE**

**Remove clamp and install on new cable.**

3. INSTALL NEW GROMMET (5) ON CABLE (6) AND ROUTE CABLE THROUGH DRIVER'S COMPARTMENT BULKHEAD.
4. INSTALL GROMMET (5) IN BULKHEAD.
5. CONNECT SPEEDOMETER CABLE (6) TO FINAL DRIVE ADAPTER (2) AND SPEEDOMETER (7).
6. ALIGN CLAMP (8) WITH BULKHEAD WELDNUT AND SECURE WITH NEW LOCKWASHER (9) AND SCREW (10).
7. INSTALL NEW STRAP (11) TO SECURE CABLE (6) TO BILGE PUMP HOSE.
8. INSTALL ENGINE ACCESS COVER PLATE (WP 0308 00).
9. INSTALL FRONT VISMOD ACCESS DOORS (WP 0307 00).

**END OF TASK**

**REPAIR SPEEDOMETER CABLE**

**0198 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0198 00-1).
- Inspection (page 0198 00-1).
- Installation (page 0198 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

Speedometer cable removed (WP 0197 00)

Materials/Parts

- Automotive grease (WP 0399 00, Item 11)
- Cable core
- Gasket

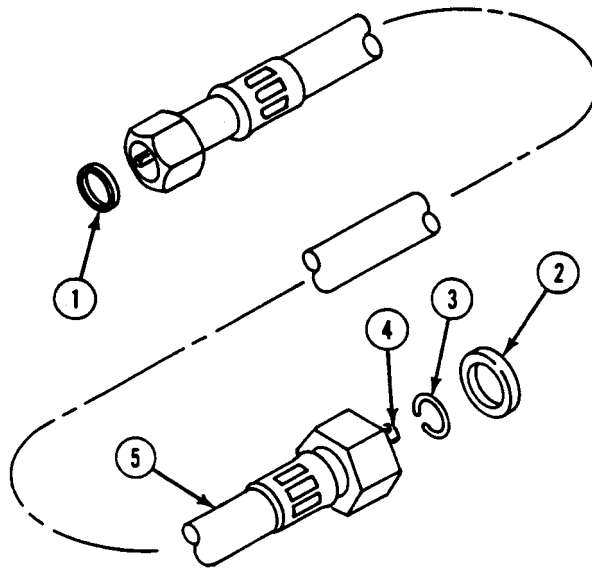
Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

**REPAIR OR REPLACEMENT**

**REMOVAL**

1. REMOVE GASKET (1), FLAT WASHER (2), SLOTTED WASHER (3), AND CABLE CORE (4) FROM CABLE HOUSING (5). DISCARD GASKET AND CABLE CORE.

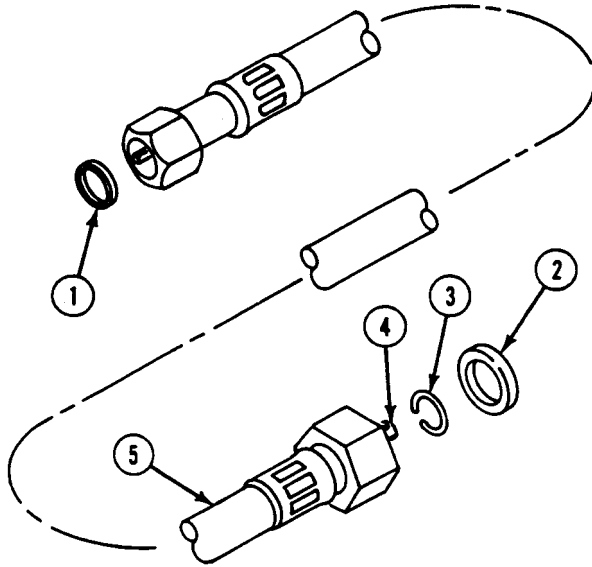


**INSPECTION**

1. INSPECT CABLE HOUSING. IF DAMAGED, REPLACE COMPLETE CABLE ASSEMBLY (WP 0197 00).

**INSTALLATION**

1. COAT CABLE CORE (4) WITH GREASE.



2. PUSH CABLE CORE (4) INTO CABLE HOUSING (5).
3. INSTALL NEW GASKET (1) AND WASHER (2) IN CABLE HOUSING (5).
4. INSTALL SLOTTED WASHER (3) ON CABLE CORE (4) AT FINAL DRIVE ADAPTER END.
5. INSTALL SPEEDOMETER CABLE (WP 0197 00).

**END OF TASK**





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**REPLACE TACHOMETER ENGINE ADAPTER**

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**0200 00**

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**THIS WORK PACKAGE COVERS:**

Removal (page 0200 00-2).  
 Installation (page 0200 00-3).

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**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Materials/Parts

Gasket

Driver's power plant access panel removed  
 (WP 0312 00)

Personnel Required

Unit Mechanic 63T10

Power plant front access panel removed (WP 0308 00)

Front VISM0D access panel removed (WP 0307 00)

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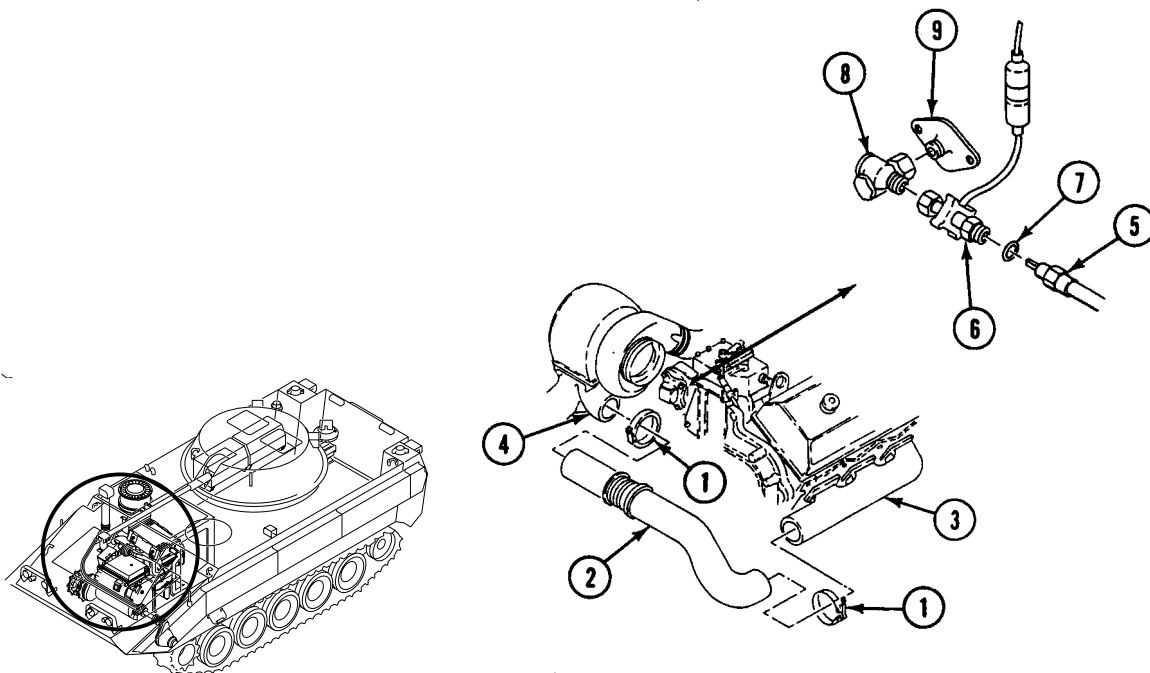
## REMOVAL

**WARNING**

**Hot parts can burn you.**

**Allow parts to cool before working on or near them. If necessary, use heat protective gloves to work on hot parts.**

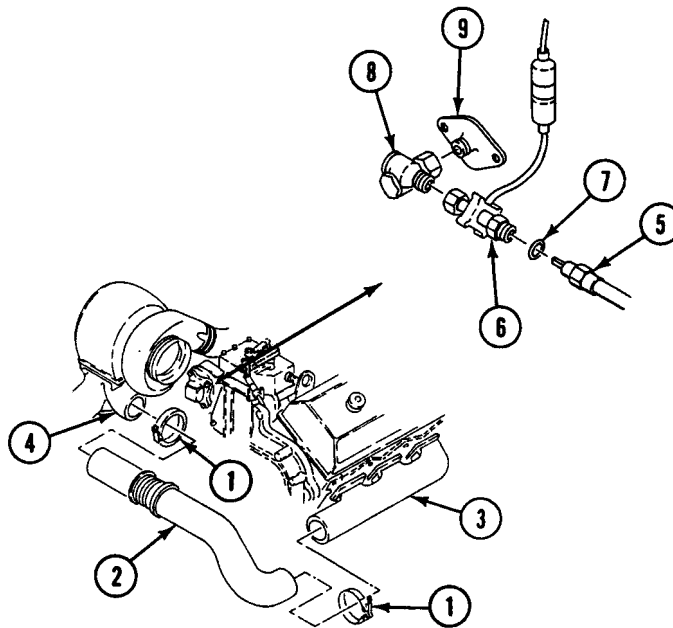
1. REMOVE TWO CLAMPS (1) FROM ELBOW (2). REMOVE ELBOW FROM EXHAUST MANIFOLD (3) AND CROSSOVER PIPE (4).
2. REMOVE TACHOMETER CABLE ASSEMBLY (5) FROM STE/ICE UNIT (6). SLIDE JAMNUT BACK ON CABLE AND REMOVE GASKET (7) FROM CABLE. DISCARD GASKET.
3. REMOVE STE/ICE UNIT (6) FROM TACHOMETER ENGINE ADAPTER (8).
4. REMOVE TACHOMETER ENGINE ADAPTER (8) FROM ENGINE MOUNTING BRACKET (9).





**INSTALLATION**

1. INSTALL TACHOMETER ENGINE ADAPTER (8) ON MOUNTING BRACKET (9).
2. INSTALL STE/ICE UNIT (6) ON TACHOMETER ENGINE ADAPTER (8).
3. INSTALL NEW GASKET (7) ON TACHOMETER CABLE ASSEMBLY (5) AND SLIDE JAMNUT FORWARD. CONNECT TACHOMETER CABLE ASSEMBLY TO STE/ICE UNIT (6).
4. POSITION ELBOW (2) BETWEEN EXHAUST MANIFOLD (3) AND CROSSOVER PIPE (4). SECURE WITH TWO CLAMPS (1).



5. START ENGINE. See TM 9-2350-366-10-1.
6. CHECK TACHOMETER FOR PROPER OPERATION. TACHOMETER NEEDLE SHOULD NOT PULSATE.
7. CHECK EXHAUST SYSTEM FOR LEAKS.
8. STOP ENGINE. See TM 9-2350-366-10-1.
9. INSTALL POWER PLANT FRONT ACCESS PANEL (WP 0316 00).
10. INSTALL DRIVER'S POWER PLANT ACCESS PANEL (WP 0312 00).
11. INSTALL FRONT VISMOD ACCESS PANEL (WP 0307 00).

**END OF TASK**



---

**REPLACE TACHOMETER CABLE**

**0201 00**

---

**THIS WORK PACKAGE COVERS:**

Removal (page 0201 00-2).  
 Installation (page 0201 00-5).

---

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Driver's power plant access panel removed  
 (WP 0312 00)  
 Power plant rear access panels removed (WP 0309 00)  
 Front VISM0D access doors removed (WP 0307 00)  
 Engine access cover plate removed (WP 0308 00)

Materials/Parts

Gasket  
 Grommet  
 Lockwasher (4)

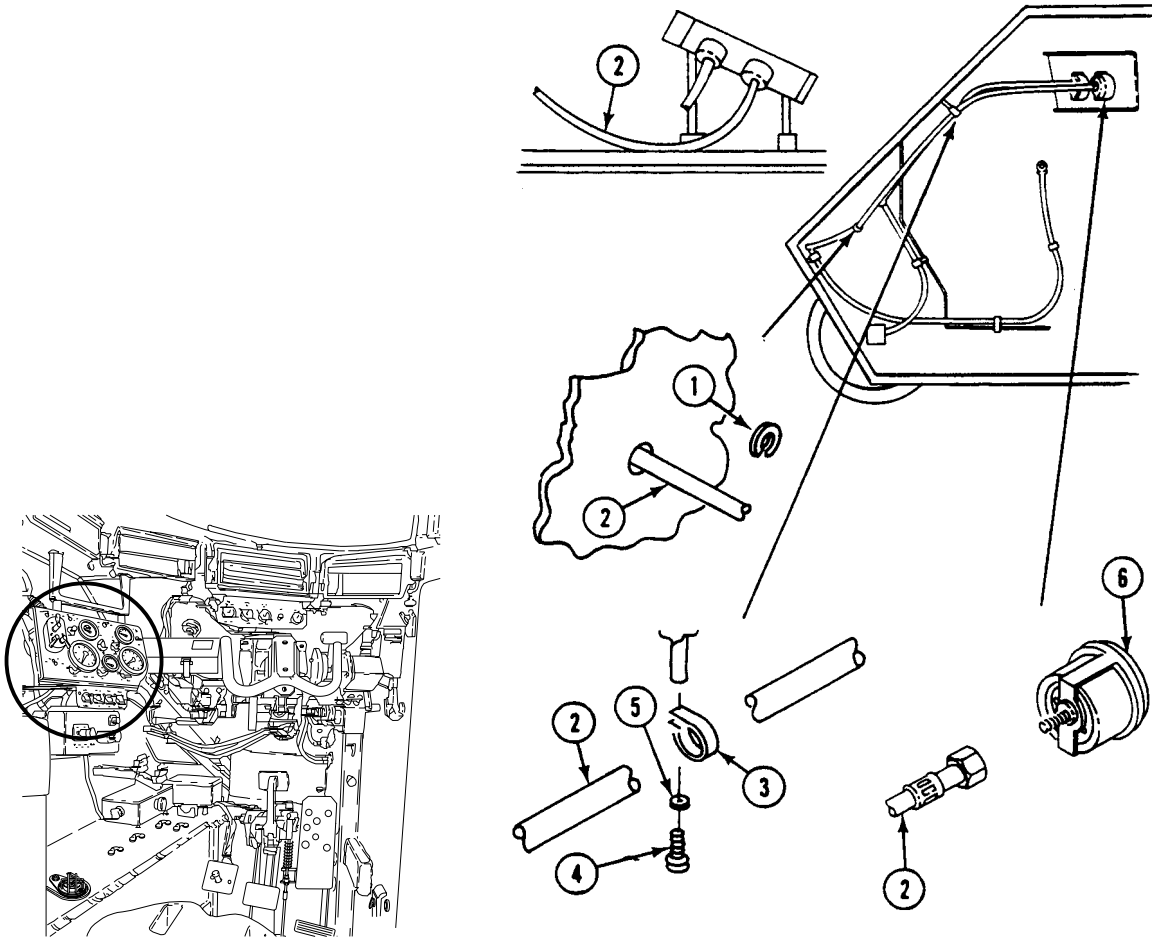
Personnel Required

Unit Mechanic 63T10

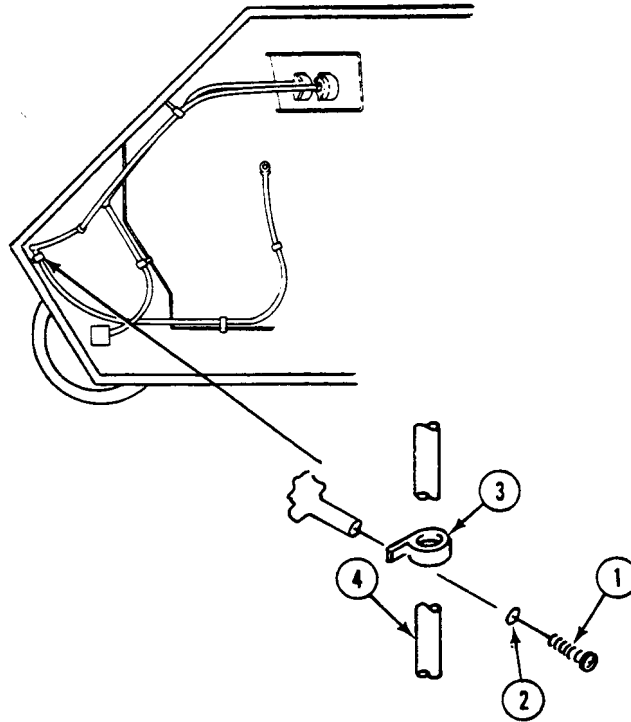
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REMOVAL

1. DISCONNECT CABLE (2) FROM GAUGE (6).
2. REMOVE SCREW (4), LOCKWASHER (5), AND CLAMP (3) FROM CABLE (2). DISCARD LOCKWASHER.
3. REMOVE CABLE (2) AND GROMMET (1) FROM BULKHEAD. DISCARD GROMMET.



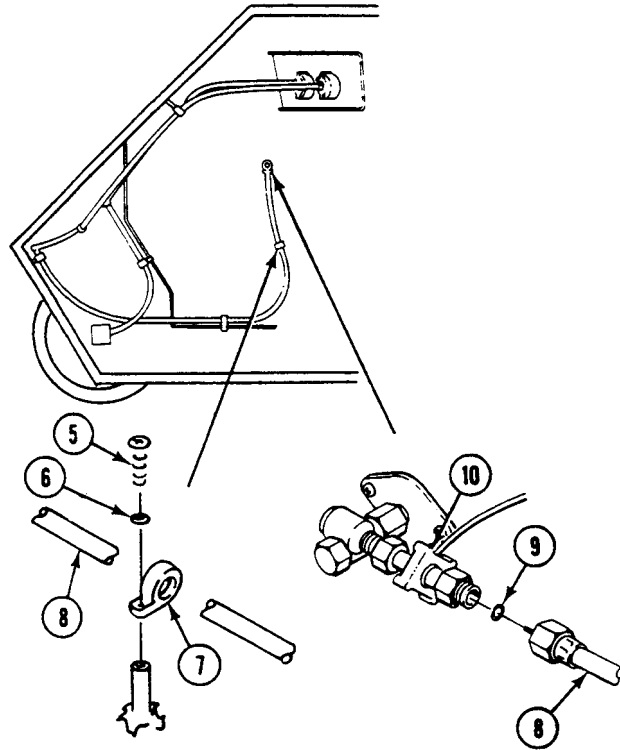
4. REMOVE SCREW (1), LOCKWASHER (2), AND CLAMP (3) FROM CABLE (4). DISCARD LOCKWASHER.



REPLACE TACHOMETER CABLE — Continued

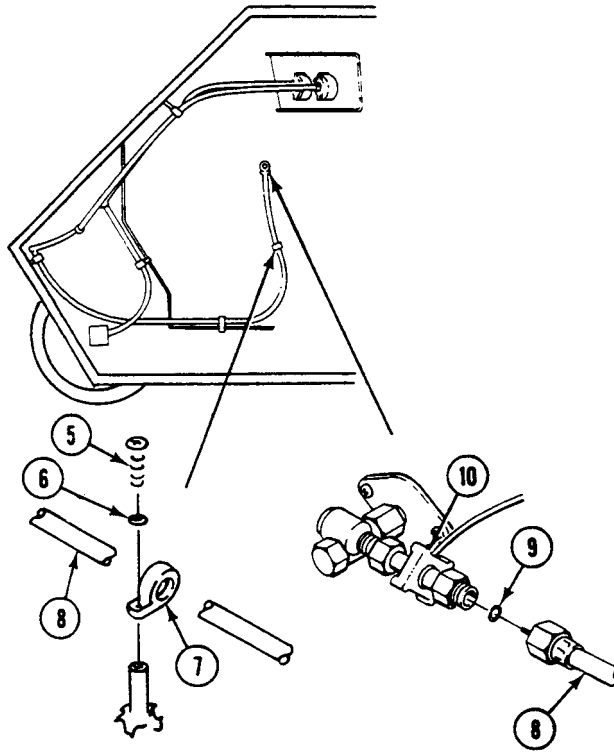
0201 00

5. REMOVE TWO SCREWS (5), LOCKWASHERS (6), AND CLAMPS (7) FROM CABLE (8). DISCARD LOCKWASHERS.
6. REMOVE CABLE (8) AND GASKET (9) FROM STE/ICE UNIT (10). DISCARD GASKET.

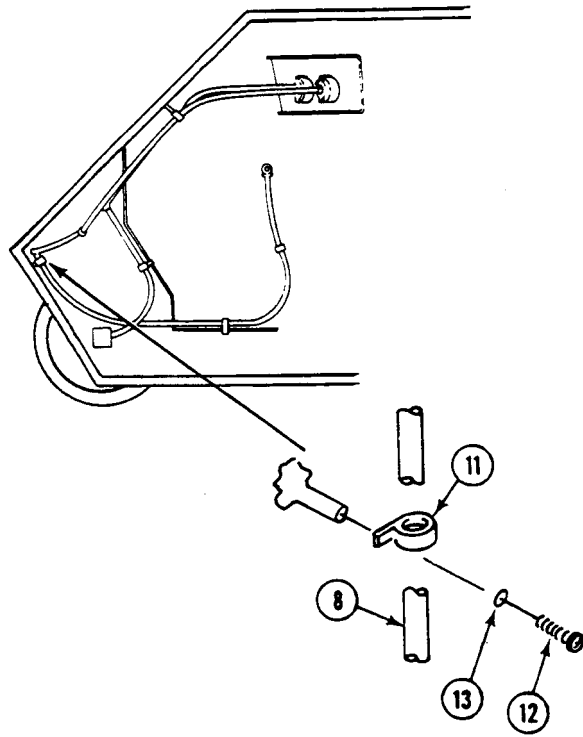


**INSTALLATION**

1. CONNECT CABLE (8) AND NEW GASKET (9) ON STE/ICE UNIT (10).
2. INSTALL TWO CLAMPS (7) ON CABLE (8) WITH TWO NEW LOCKWASHERS (6) AND SCREWS (5).



3. INSTALL CLAMP (11) ON CABLE (8) WITH SCREW (12) AND NEW LOCKWASHER (13).



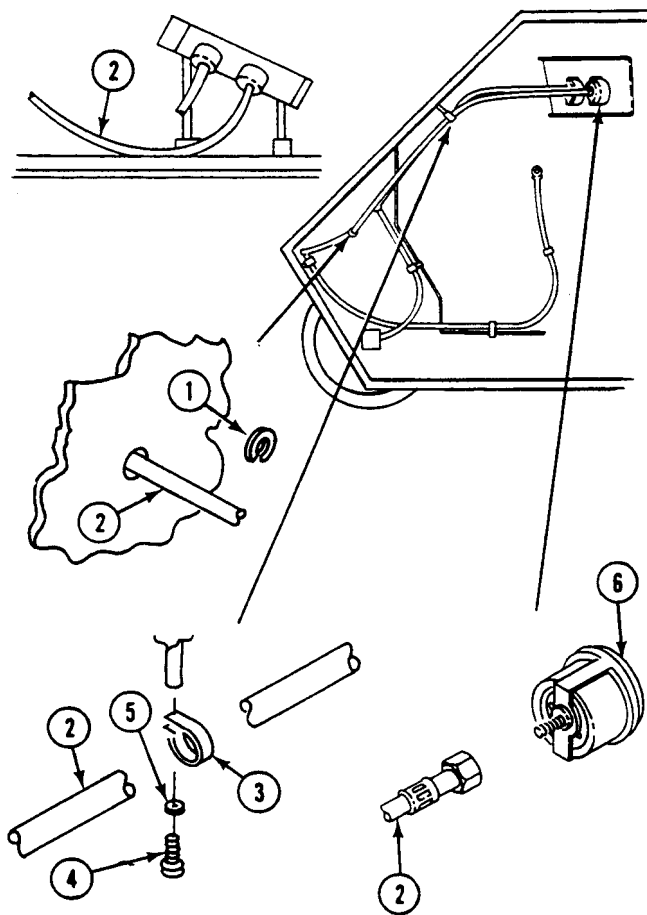


4. INSTALL NEW GROMMET (1) ON CABLE (2). ROUTE CABLE THROUGH BULKHEAD AND INSTALL GROMMET IN BULKHEAD.

**NOTE**

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

5. INSTALL CLAMP (3) ON CABLE (2) WITH SCREW (4) AND NEW LOCKWASHER (5).
6. CONNECT CABLE (2) TO GAUGE (6).



7. INSTALL ENGINE ACCESS COVER PLATE (WP 0308 00).
8. INSTALL FRONT VISMOD ACCESS DOORS (WP 0307 00).
9. INSTALL POWER PLANT REAR ACCESS PANELS (WP 0309 00).
10. INSTALL DRIVER'S POWER PLANT ACCESS PANEL (WP 0312 00).

**END OF TASK**



**REPAIR TACHOMETER CABLE**

**0202 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0202 00-1).
- Inspection (page 0202 00-1).
- Installation (page 0202 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

Tachometer cable removed (WP 0201 00)

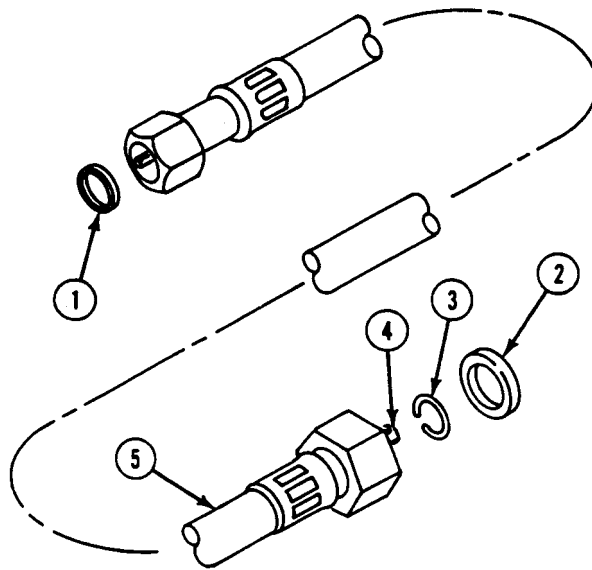
Materials/Parts

- Automotive grease (WP 0399 00, Item 11)
- Cable core
- Gasket

**REPAIR OR REPLACEMENT**

**REMOVAL**

1. REMOVE GASKET (1), WASHER (2), SLOTTED WASHER (3), AND CORE (4) FROM CABLE HOUSING (5). DISCARD GASKET AND CORE.

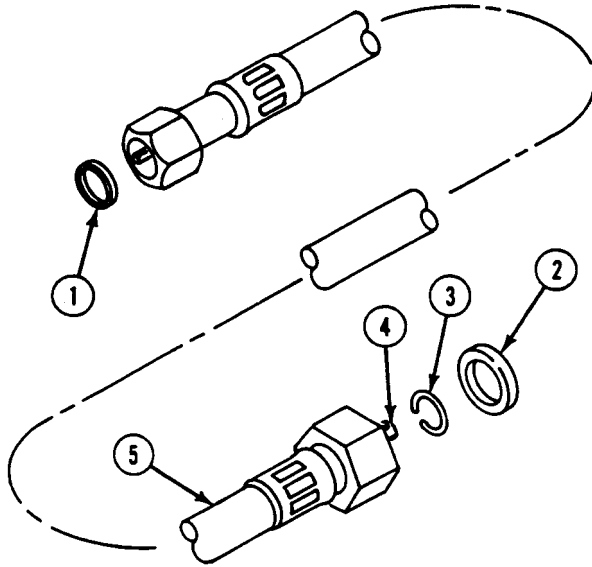


**INSPECTION**

1. INSPECT CABLE HOUSING. IF DAMAGED, REPLACE COMPLETE CABLE ASSEMBLY (WP 0201 00).

**INSTALLATION**

1. COAT CORE (4) WITH GREASE.



2. INSTALL CORE (4) IN CABLE HOUSING (5).
3. INSTALL NEW GASKET (1) AND WASHER (2) IN CABLE HOUSING (5).
4. INSTALL SLOTTED WASHER (3) ON CORE (4) AT ENGINE ADAPTER END.
5. INSTALL TACHOMETER CABLE (WP 0201 00).

**END OF TASK**

**REPLACE DRIVER'S LEVEL INDICATOR AND MOUNT PLATE**

**0203 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0203 00-1).  
 Installation (page 0203 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

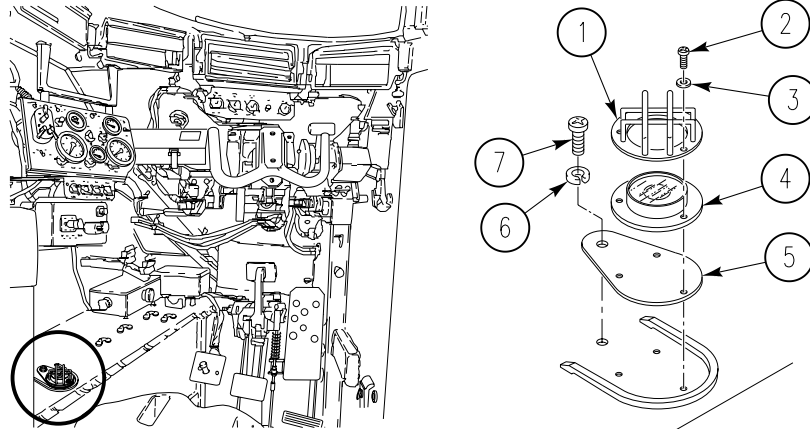
Sealing compound (WP 0399 00, Item 56)  
 Lock washer

Equipment Condition

Engine stopped TM 9-2350-366-10-1

**REMOVAL**

1. REMOVE LEVEL INDICATOR (4) AND GUARD (1) FROM PLATE (5).
  - a. Remove three screws (2), washers (3), guard (1), and level indicator (4) from plate (5).



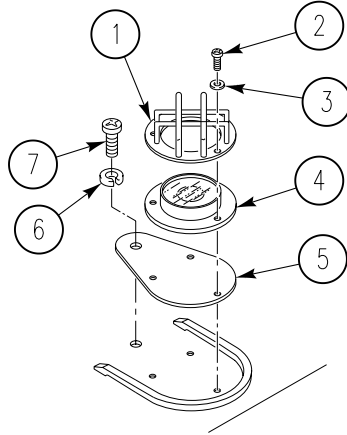
**NOTE**

**If plate needs to be replaced, do Step 2 and Installation Procedure Step 1. If plate does not need to be replaced, go to Installation Procedure Step 2.**

2. REMOVE SCREW (7), LOCK WASHER (6), AND PLATE (5) FROM SPONSON.

**INSTALLATION**

1. INSTALL PLATE (5) ON SPONSON.
  - a. Apply sealing compound to threads of screw (7).
  - b. Install plate (5), new lock washer (6) and screw (7) on sponson.



2. INSTALL NEW LEVEL INDICATOR (4) AND GUARD (1) ON PLATE (5).
  - a. Install level indicator (4), guard (1), three washers (3), and screws (2) on plate (5). Check that level indicator reads the same as level indicator in turret.

**END OF TASK**

CHAPTER 15

UNIT MAINTENANCE INSTRUCTIONS  
FOR INSTRUMENT AND WARNING INDICATORS

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**WORK PACKAGE INDEX**

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| <u>Title</u>   | <u>Sequence No.</u> |
|--|---------------------|
| REPLACE ENGINE OIL LOW PRESSURE TRANSMITTER AND HARDWARE.....        | .0204 00            |
| REPLACE COOLANT TEMPERATURE TRANSMITTER.....                         | .0205 00            |
| REPLACE TRANSMISSION OIL HIGH TEMPERATURE SWITCH.....                | .020600             |
| REPLACE HOSES FROM THERMOSTAT TO VARIABLE SPEED DRIVE.....           | .0207 00            |
| REPLACE TRANSMISSION OIL SUPPLY AND RETURN HOSES.....                | .0208 00            |
| REPLACE TURBO OUTLET PRESSURE TRANSDUCER.....                        | .0209 00            |
| REPLACE AIR BOX PRESSURE TRANSDUCER.....                             | .0210 00            |
| REPLACE INSTRUMENT PANEL MOUNTS AND GROUND LEAD.....                 | .0211 00            |
| REPLACE WARNING PANEL LIGHTS.....                                    | .0212 00            |
| REPLACE WARNING LIGHT PANEL.....                                     | .0213 00            |
| REPLACE WARNING LIGHT PANEL ASSEMBLY.....                            | .0214 00            |
| REPLACE INSTRUMENT PANEL SPECIAL PURPOSE CABLE.....                  | .0215 00            |
| REPLACE INSTRUMENT PANEL BATTERY-GENERATOR GAUGE WIRING HARNESS..... | .0216 00            |
| REPLACE INSTRUMENT WARNING LIGHT PANEL.....                          | .0217 00            |
| REPLACE INSTRUMENT PANEL WARNING LIGHTS.....                         | .0218 00            |
| REPLACE PANEL LIGHTS AND INDICATOR LIGHTS.....                       | .0219 00            |
| REPLACE INSTRUMENT PANEL ASSEMBLY.....                               | .0220 00            |
| REPLACE INSTRUMENT PANEL GAUGES.....                                 | .0221 00            |





**REPLACE ENGINE OIL LOW PRESSURE TRANSMITTER AND HARDWARE**

**0204 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0204 00-1).  
 Installation (page 0204 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Driver's power plant access panel removed  
 (WP 0312 00)

Materials/Parts

Sealing compound (WP 0399 00, Item 55)

Locknut

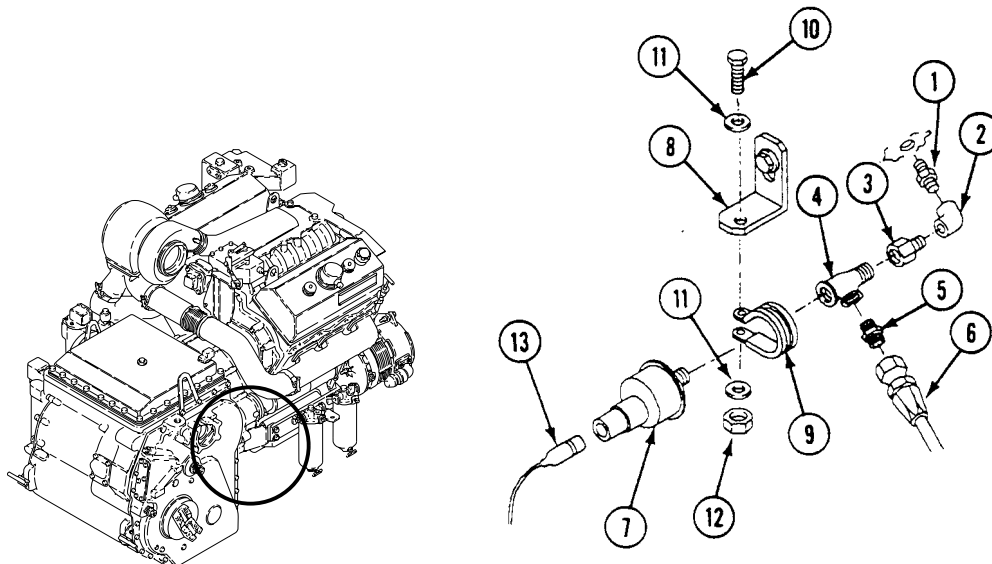
Personnel Required

Unit Mechanic 63T10

Power plant rear access panels removed (WP 0309 00)

**REMOVAL**

1. DISCONNECT CIRCUIT 34 LEAD (13) FROM ENGINE OIL LOW PRESSURE TRANSMITTER (7).
2. REMOVE LOCKNUT (12), TWO WASHERS (11), SCREW (10), AND CLAMP (9) SECURING PRESSURE TRANSMITTER (7) TO BRACKET (8). DISCARD LOCKNUT.
3. REMOVE PRESSURE TRANSMITTER (7) FROM TEE (4).
4. DISCONNECT HOSE (6) FROM ADAPTER (5).
5. REMOVE ADAPTER (5) FROM TEE (4).
6. REMOVE TEE (4) AND NIPPLE (3) FROM ELBOW (2).
7. REMOVE ELBOW (2) AND REDUCER (1) FROM ENGINE.

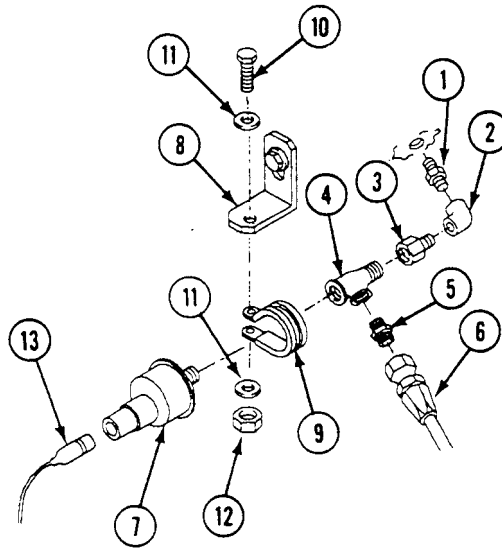


## INSTALLATION

## NOTE

Coat male tapered threads with sealing compound.

1. INSTALL REDUCER (1) AND ELBOW (2) ON ENGINE.
2. INSTALL NIPPLE (3) AND TEE (4) ON ELBOW (2).
3. INSTALL ADAPTER (5) IN TEE (4).
4. CONNECT HOSE (6) TO ADAPTER (5).
5. INSTALL PRESSURE TRANSMITTER (7) IN TEE (4).
6. SECURE PRESSURE TRANSMITTER (7) TO BRACKET (8) WITH CLAMP (9), SCREW (10), TWO WASHERS (11), AND NEW LOCKNUT (12).
7. CONNECT CIRCUIT 34 LEAD (13) TO PRESSURE TRANSMITTER (7).



8. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1.
9. CHECK THE ENGINE OIL LOW PRESS LIGHT IS ON. See TM 9-2350-366-10-1.
10. START ENGINE See TM 9-2350-366-10-1. ENGINE OIL LOW PRESS LIGHT SHOULD GO OFF.
11. CHECK FOR OIL LEAKS AT ENGINE LOW OIL PRESSURE TRANSMITTER. See TM 9-2350-366 .
12. STOP ENGINE. See TM 9-2350-366-10-1.
13. INSTALL POWER PLANT REAR ACCESS PANELS (WP 0309 00).
14. INSTALL DRIVER'S POWER PLANT ACCESS PANEL (WP 0312 00).

## END OF TASK

**REPLACE COOLANT TEMPERATURE TRANSMITTER**

**0205 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0205 00-1).
- Installation (page 0205 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

- TM 9-2350-366-10-1
- TM 9-2350-366-10-2

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Turret rotated to 3200 mils (TM 9-2350-366-10-2)
- Power plant rear access panels removed (WP 0309 00).
- Driver's power plant access panel removed (WP 0312 00).
- Coolant level drained below thermostat housing (WP 0155 00).

Materials/Parts

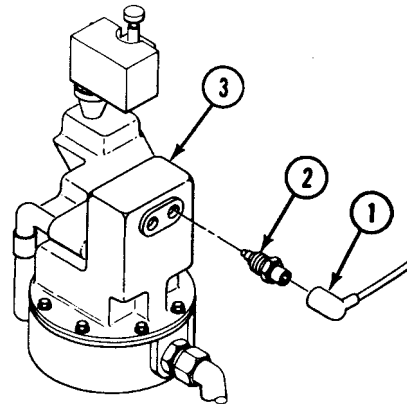
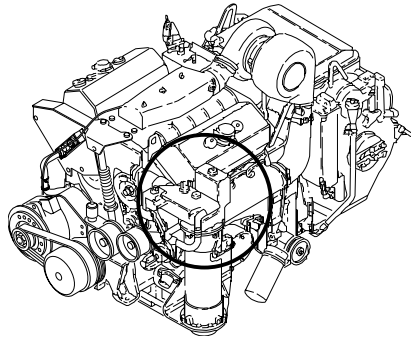
Sealing compound (WP 0399 00, Item 55)

Personnel Required

Unit Mechanic 63T10

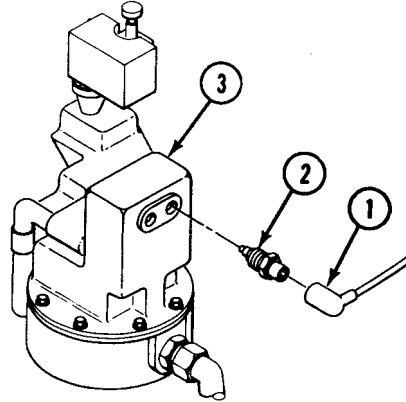
**REMOVAL**

1. DISCONNECT CIRCUIT 33 LEAD (1) FROM ENGINE COOLANT TEMPERATURE SWITCH (2).
2. REMOVE SWITCH (2) FROM THERMOSTAT HOUSING (3).



**INSTALLATION**

1. COAT THREADS OF SWITCH (2) WITH SEALING COMPOUND.



2. INSTALL SWITCH (2) IN THERMOSTAT HOUSING (3).
3. CONNECT CIRCUIT 33 LEAD (1) TO SWITCH (2).
4. FILL COOLANT SYSTEM TO PROPER LEVEL (WP 0328 00).
5. START ENGINE. See TM 9-2350-366-10-1.
6. CHECK FOR LEAKS. See TM 9-2350-366-10-1.
7. STOP ENGINE. See TM 9-2350-366-10-1.
8. INSTALL DRIVER'S POWER PLANT ACCESS PANEL (WP 0312 00).
9. INSTALL POWER PLANT REAR ACCESS PANELS (WP 0309 00)

**END OF TASK**

**REPLACE TRANSMISSION OIL HIGH TEMPERATURE SWITCH**

**0206 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0206 00-1).  
 Installation (page 0206 00-1).

**INITIAL SETUP:**

Maintenance Level  
 Unit

Tools and Special Tools  
 General Mechanic's Tool Kit (WP 0397 00, Item 64)

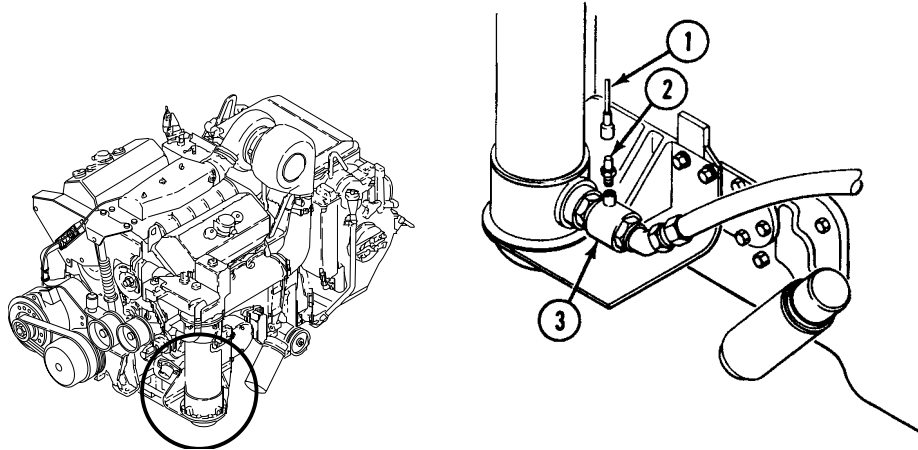
Materials/Parts  
 Sealing compound (WP 0399 00, Item 55)

Personnel Required  
 Unit Mechanic 63T10

Equipment Condition  
 Power plant removed (WP 0309 00)  
 Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Turret rotated to gain access

**REMOVAL**

1. DISCONNECT CIRCUIT 327 LEAD (1) FROM SWITCH (2).



2. REMOVE SWITCH (2) FROM TEE (3).

**INSTALLATION**

1. APPLY SEALING COMPOUND TO THREADS OF SWITCH (2).
2. INSTALL SWITCH (2) IN TEE (3).
3. CONNECT CIRCUIT 327 LEAD (1) TO SWITCH (2).
4. INSTALL POWER PLANT (WP 0309 00).

**END OF TASK**



---

**REPLACE HOSES FROM THERMOSTAT TO VARIABLE SPEED DRIVE**

**0207 00**

---

**THIS WORK PACKAGE COVERS:**

Removal (page 0207 00-2).  
 Installation (page 0207 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Materials/Parts

Packing (2)  
 Packing (2)  
 Strap (1)

Personnel Required

Unit Mechanic 63T10

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

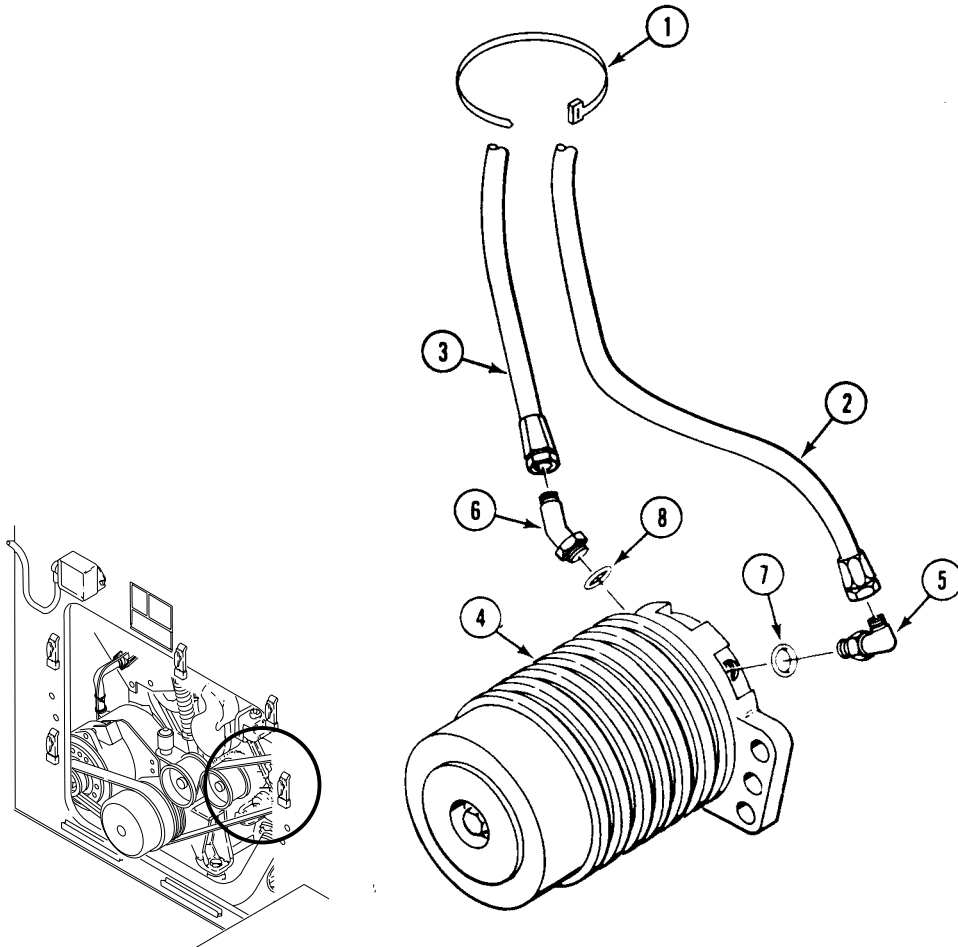
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Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Turret rotated to 3200 mils (TM 9-2350-366-10-2)  
 Power plant rear access panels removed (WP 0309 00)  
 Driver's power plant access panel removed  
 (WP 0312 00)  
 Power plant rear access panel support removed  
 (WP 0377 00)  
 Ventilating fan drive belt removed (WP 0148 00)

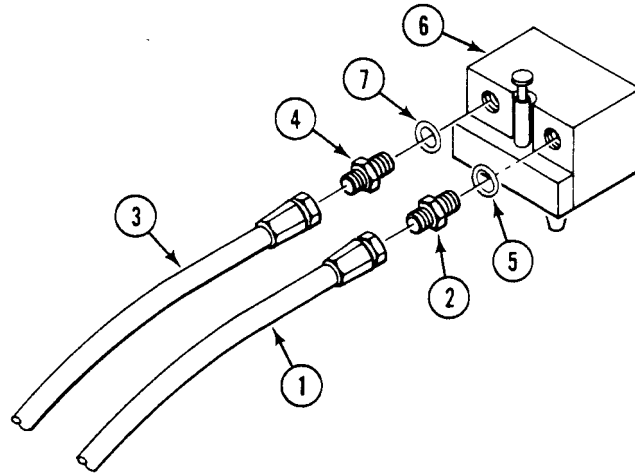
**REMOVAL**

1. REMOVE STRAP (1) SECURING HOSES (2) AND (3) FROM VARIABLE SPEED DRIVE (4). DISCARD STRAP.
2. REMOVE LUBE PORT HOSE (2) FROM ELBOW (5) ON VARIABLE SPEED DRIVE (4).
3. REMOVE PRESSURE HOSE (3) FROM ELBOW (6) ON VARIABLE SPEED DRIVE (4).
4. REMOVE ELBOW (5) AND PACKING (7) FROM VARIABLE SPEED DRIVE (4). DISCARD PACKING.
5. REMOVE ELBOW (6) AND PACKING (8) FROM VARIABLE SPEED DRIVE (4). DISCARD PACKING.

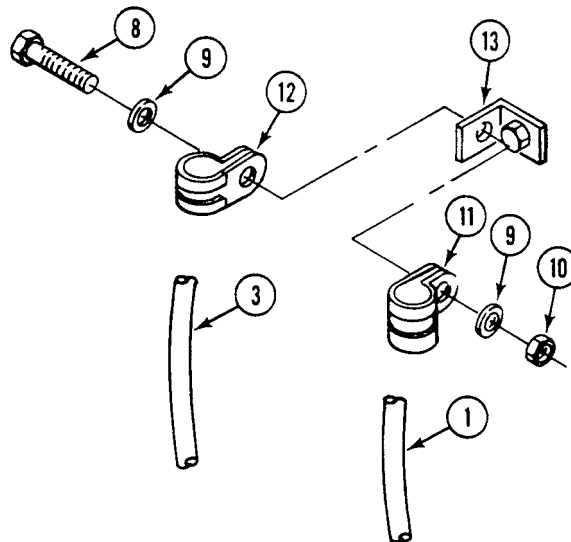




6. REMOVE HOSE (1) FROM ADAPTER (2).
7. REMOVE HOSE (3) FROM ADAPTER (4).
8. REMOVE ADAPTER (2) AND PACKING (5) FROM THERMOSTAT HOUSING (6). DISCARD PACKING.
9. REMOVE ADAPTER (4) AND PACKING (7) FROM THERMOSTAT HOUSING (6). DISCARD PACKING.

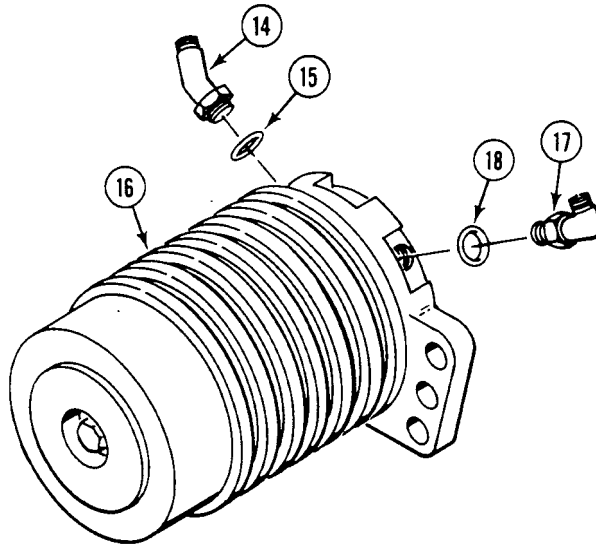


10. REMOVE SCREW (8), TWO WASHERS (9), NUT (10) AND TWO CLAMPS (11) AND (12) FROM BRACKET (13). REMOVE TWO CLAMPS FROM HOSES (3) AND (1). DISCARD LOCKNUT

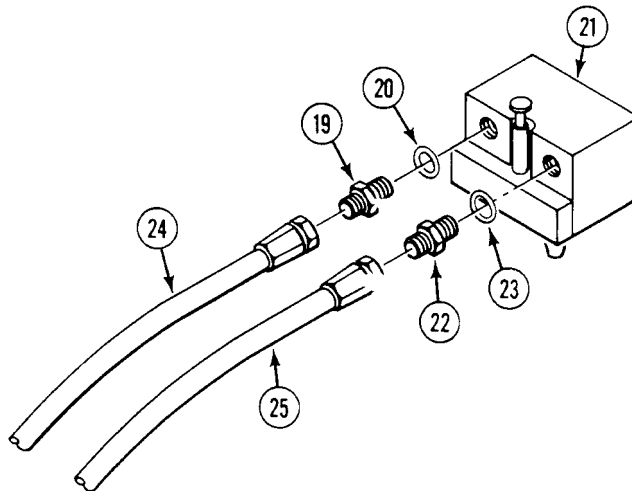


**INSTALLATION**

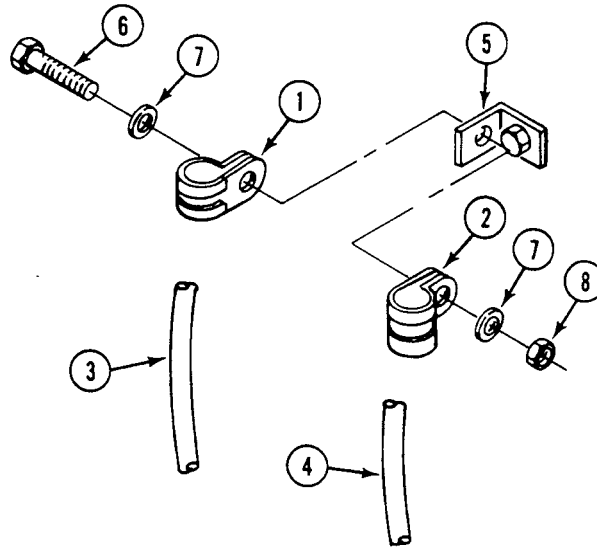
1. INSTALL ELBOW (14) AND NEW PACKING (15) ON VARIABLE SPEED DRIVE (16).
2. INSTALL ELBOW (17) AND NEW PACKING (18) ON VARIABLE SPEED DRIVE (16).



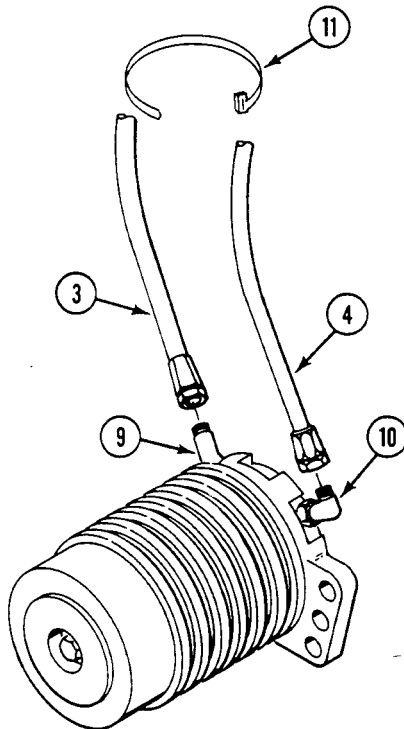
3. INSTALL ADAPTER (19) AND NEW PACKING (20) ON THERMOSTAT HOUSING (21).
4. INSTALL ADAPTER (22) AND NEW PACKING (23) ON THERMOSTAT HOUSING (21).
5. INSTALL HOSE (24) ON ADAPTER (19).
6. INSTALL HOSE (25) ON ADAPTER (22).



7. INSTALL TWO CLAMPS (1) AND (2) ON TWO HOSES (3) AND (4). SECURE CLAMPS TO BRACKET (5) WITH SCREW (6), TWO WASHERS (7) AND NUT (8).



8. INSTALL HOSE (3) ON ELBOW (9).
9. INSTALL HOSE (4) ON ELBOW (10).
10. SECURE HOSES (3) AND (4) TOGETHER FROM VARIABLE SPEED DRIVE WITH NEW STRAP (11).



11. INSTALL VENTILATING FAN DRIVE BELT (WP 0291 00).
12. ADJUST VENTILATING FAN DRIVE BELT (WP 0290 00).
13. INSTALL POWER PLANT REAR ACCESS PANEL SUPPORT (WP 0377 00).
14. INSTALL DRIVER'S POWER PLANT ACCESS PANEL (WP 0312 00).
15. INSTALL POWER PLANT REAR ACCESS PANELS (WP 0309 00).

**END OF TASK**

---

**REPLACE TRANSMISSION OIL SUPPLY AND RETURN HOSES**

---

**0208 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0208 00-1).  
 Installation (page 0208 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Power plant removed (WP 0106 00)

Materials/Parts

Packing

Locknut

Transmission oil drained (WP 0269 00)

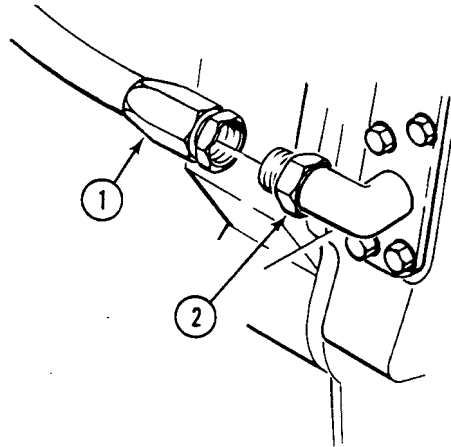
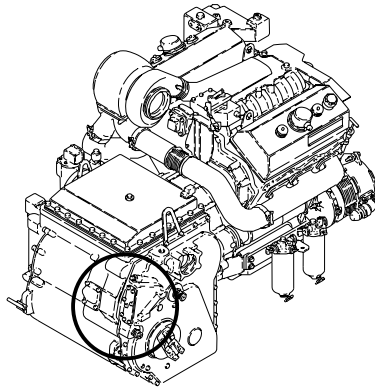
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**REMOVAL**

**CAUTION**

**Cap or cover openings where oil lines or fittings have been removed.**

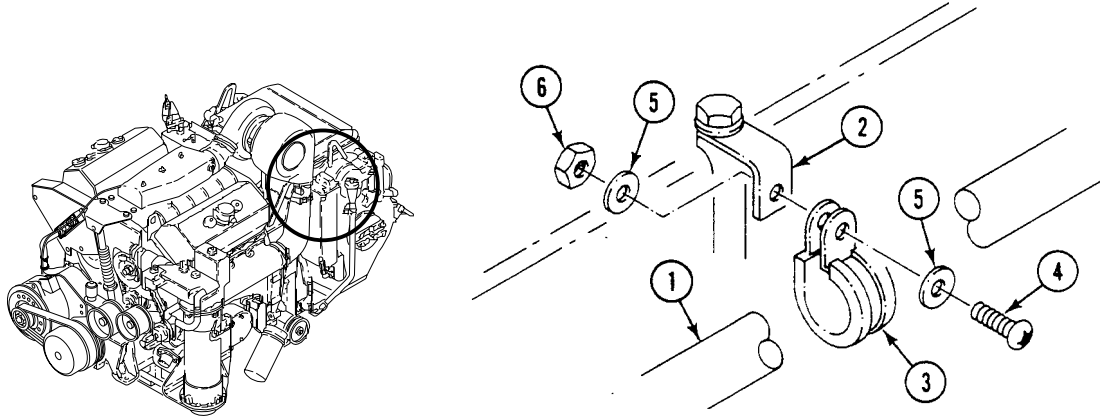
1. REMOVE HOSE (1) FROM ELBOW (2).
2. REMOVE ELBOW (2) FROM TRANSMISSION.



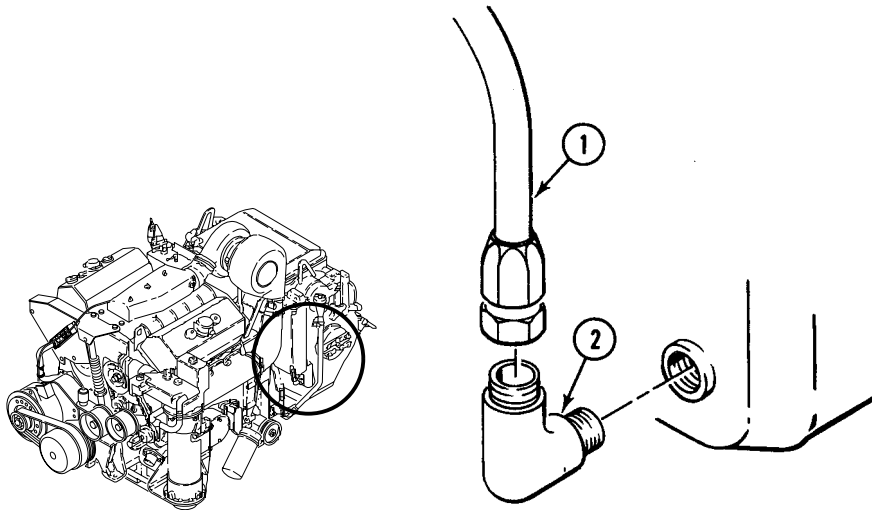
REPLACE TRANSMISSION OIL SUPPLY AND RETURN HOSES — Continued

0208 00

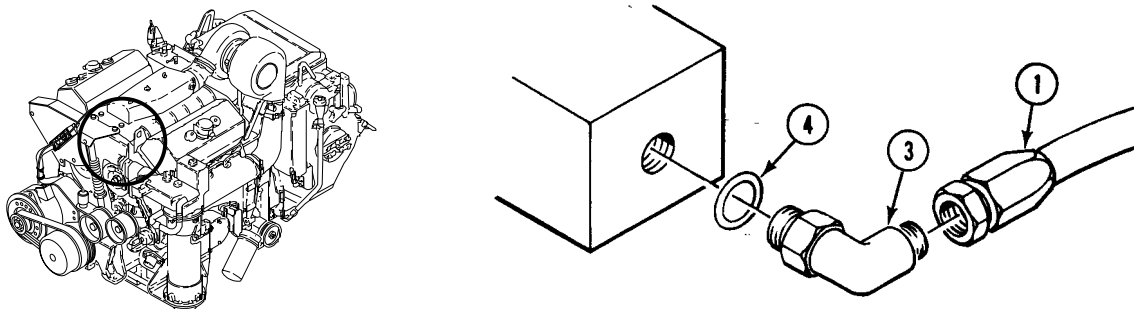
3. REMOVE TWO NUTS (6), SCREWS (4), FOUR WASHERS (5), AND TWO CLAMPS (3) THAT SECURE HOSE (1) TO TWO BRACKETS (2) ON TRANSMISSION.



4. REMOVE HOSE (1) FROM ELBOW (2).
5. REMOVE ELBOW (2) FROM TRANSMISSION.

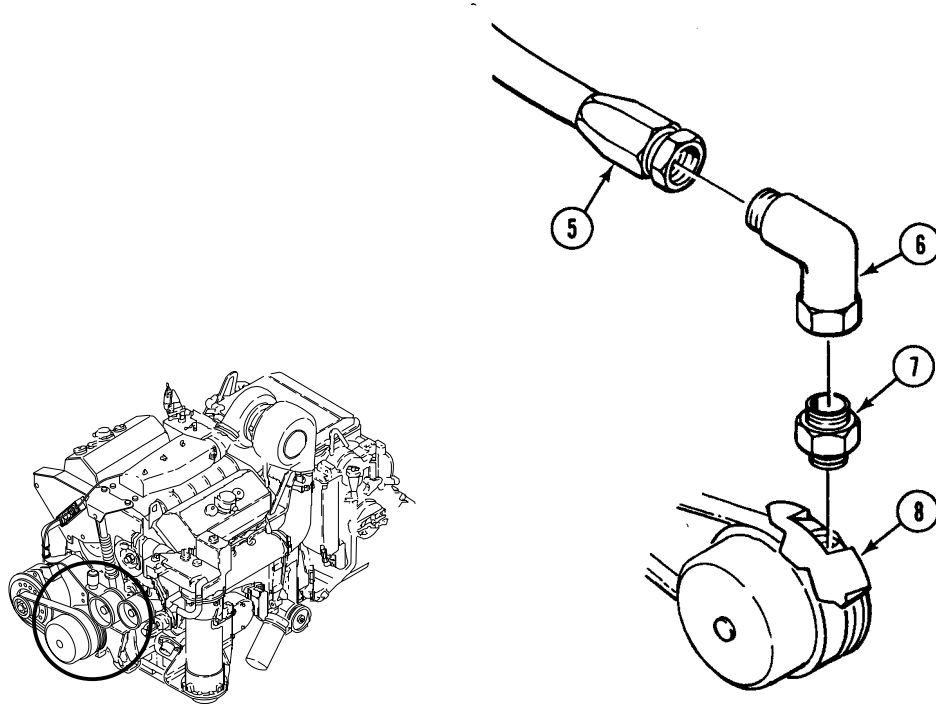


6. REMOVE HOSE (1) FROM ELBOW (3). REMOVE HOSE.

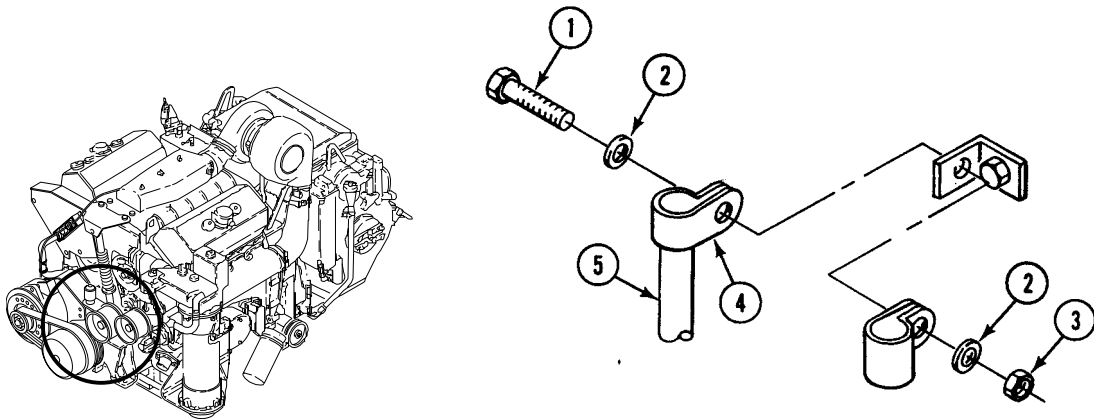


7. REMOVE ELBOW (3) AND PACKING (4) FROM THERMOSTAT HOUSING. DISCARD PACKING.

8. REMOVE HOSE (5) FROM ELBOW (6).
9. REMOVE ELBOW (6) FROM ADAPTER (7).
10. REMOVE ADAPTER (7) FROM VARIABLE SPEED DRIVE (8).

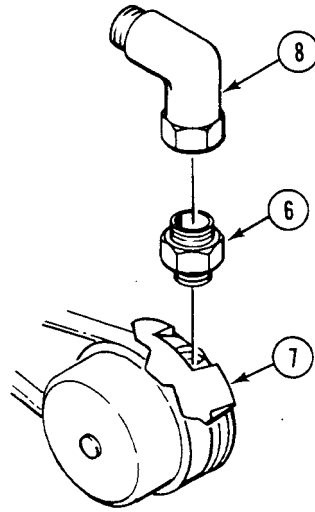


11. REMOVE SCREW (1), TWO WASHERS (2), LOCKNUT (3), AND CLAMP (4) FROM HOSE (5). DISCARD LOCKNUT. REMOVE HOSE.

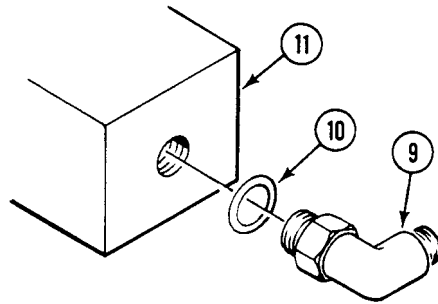


**INSTALLATION**

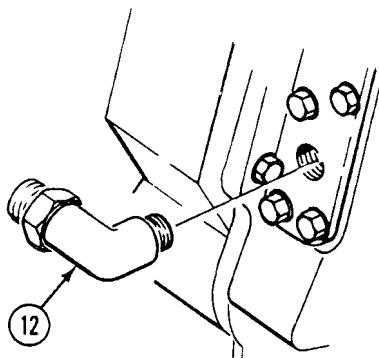
1. INSTALL ADAPTER (6) ON VARIABLE SPEED DRIVE (7).
2. INSTALL ELBOW (8) ON ADAPTER (6).



3. INSTALL ELBOW (9) AND NEW PACKING (10) ON THERMOSTAT HOUSING (11).

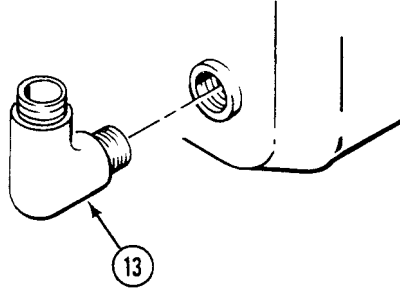


4. INSTALL ELBOW (12) ON TRANSMISSION.

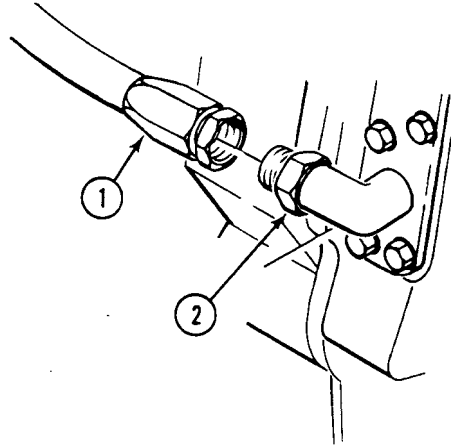




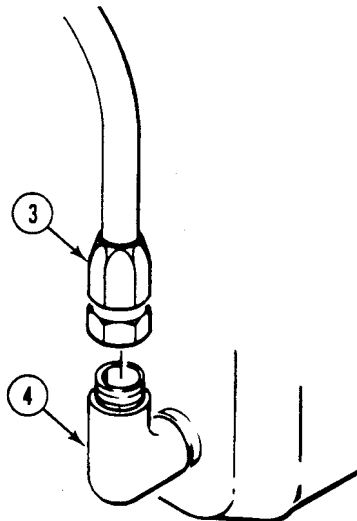
5. INSTALL ELBOW (13) ON TRANSMISSION.



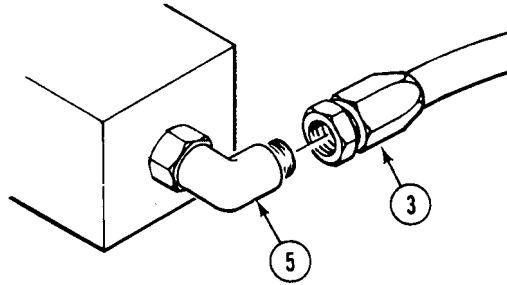
6. INSTALL HOSE (1) ON ELBOW (2).



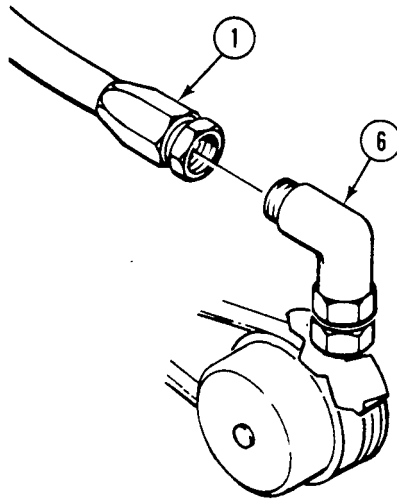
7. INSTALL HOSE (3) ON ELBOW (4).



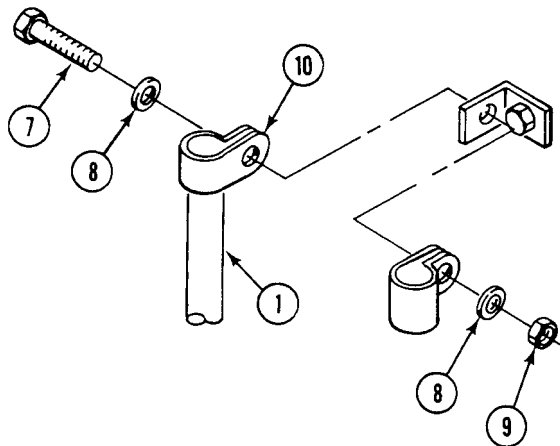
8. INSTALL HOSE (3) ON ELBOW (5).



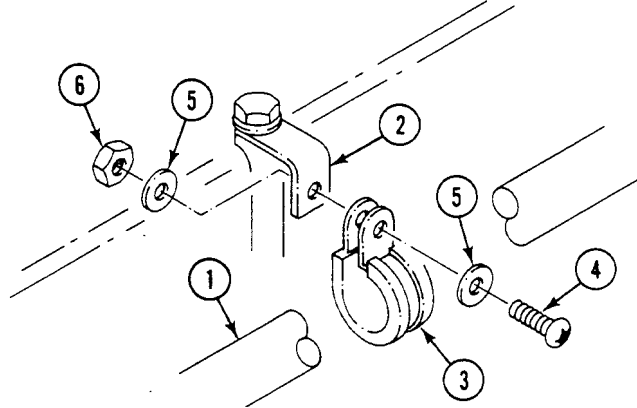
9. INSTALL HOSE (1) ON ELBOW (6).



10. INSTALL HOSE (1) ON ENGINE. SECURE WITH SCREW (7), TWO WASHERS (8), NEW LOCKNUT (9) AND CLAMP (10).



11. SECURE HOSE (1) TO TWO BRACKETS (2) ON TRANSMISSION USING TWO CLAMPS (3), SCREWS (4), FOUR WASHERS (5), AND TWO NUTS (6).



12. INSTALL POWER PLANT (WP 0106 00).
13. FILL TRANSMISSION WITH OIL (WP 0269 00).
14. START ENGINE AND CHECK FOR LEAKS. See TM 9-2350-366-10-1.
15. STOP ENGINE. See TM 9-2350-366-10-1.

**END OF TASK**



**REPLACE TURBO OUTLET PRESSURE TRANSDUCER**

**0209 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0209 00-1).  
 Installation (page 0209 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Turret rotated to 3200 mils (TM 9-2350-366-10-2)  
 Power plant rear access panels removed (WP 0309 00)  
 Driver's power plant access panel removed  
 (WP 0312 00)

Materials/Parts

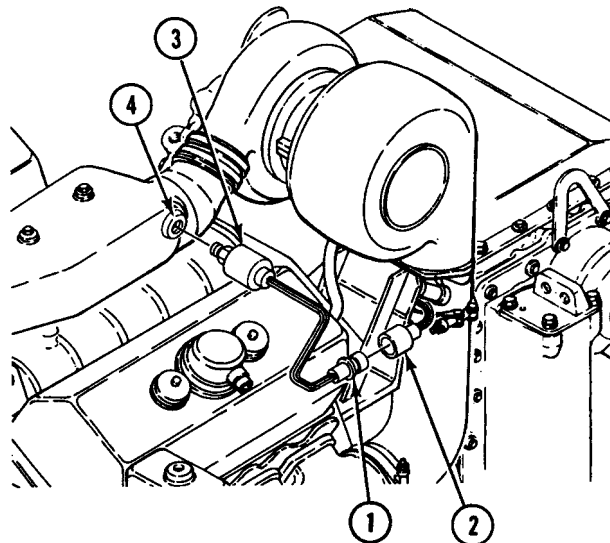
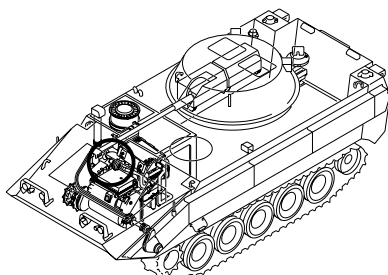
Adhesive (WP 0399 00, Item 4)

Personnel Required

Unit Mechanic 63T10

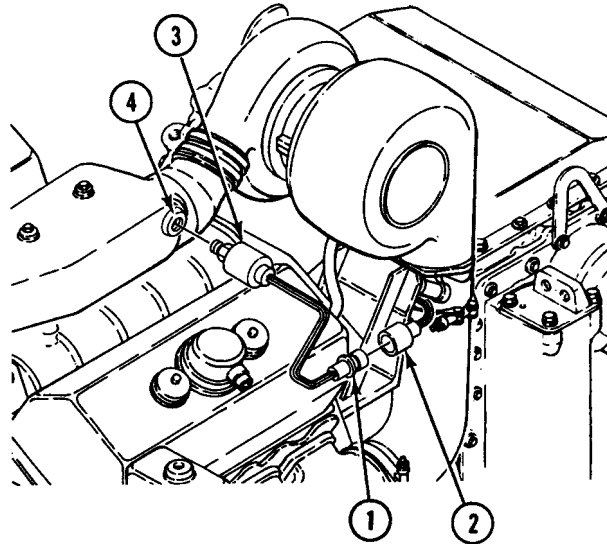
**REMOVAL**

1. DISCONNECT TRANSDUCER LEAD (1) FROM WIRING HARNESS (2).
2. DISCONNECT TRANSDUCER (3) FROM TURBO OUTLET HOUSING (4).



**INSTALLATION**

1. APPLY A THIN COAT OF ADHESIVE TO EXTERNAL THREADS OF TRANSDUCER (3).
2. CONNECT TRANSDUCER (3) TO TURBO OUTLET HOUSING (4).
3. CONNECT TRANSDUCER LEAD (1) TO WIRING HARNESS (2).



4. INSTALL DRIVER'S POWER PLANT ACCESS PANEL (WP 0312 00).
5. INSTALL POWER PLANT REAR ACCESS PANELS (WP 0309 00).
6. ROTATE TURRET TO 6400 MILS. See TM 9-2350-366-10-2.

**END OF TASK**

**REPLACE AIR BOX PRESSURE TRANSDUCER**

**0210 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0210 00-1).  
 Installation (page 0210 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Materials/Parts

Adhesive (WP 0399 00, Item 4)

Vehicle blocked (TM 9-2350-366-10-1)

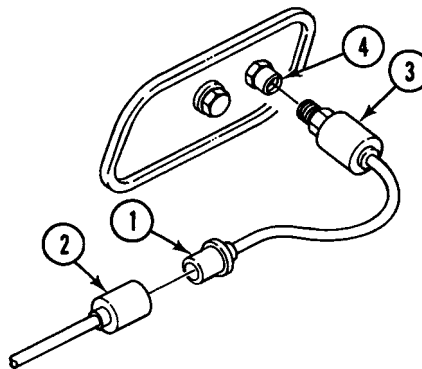
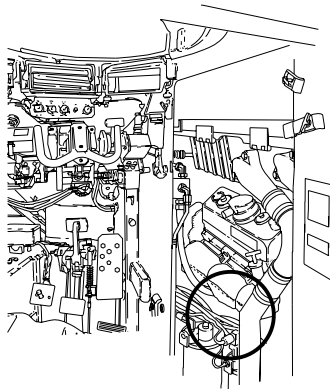
Personnel Required

Unit Mechanic 63T10

Driver's power plant access panel removed  
 (TM 9-2350-366-10-1)

**REMOVAL**

1. DISCONNECT AIR BOX PRESSURE TRANSDUCER LEAD (1) FROM STE/ICE WIRING HARNESS (2).
2. DISCONNECT TRANSDUCER (3) FROM HOUSING (4).



**INSTALLATION**

1. APPLY A THIN COAT OF ADHESIVE TO THREADS OF TRANSDUCER (3).
2. CONNECT TRANSDUCER (3) TO HOUSING (4).
3. CONNECT AIR BOX PRESSURE TRANSDUCER LEAD (1) TO STE/ICE WIRING HARNESS (2).
4. INSTALL DRIVER'S POWER PLANT ACCESS PANEL. See TM 9-2350-366-10-1.

**END OF TASK**





**REPLACE INSTRUMENT PANEL MOUNTS AND GROUND LEAD**

**0211 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0211 00-1).  
 Installation (page 0211 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Battery ground strap disconnected (WP 0237 00)

Materials/Parts

Lockwasher (5)

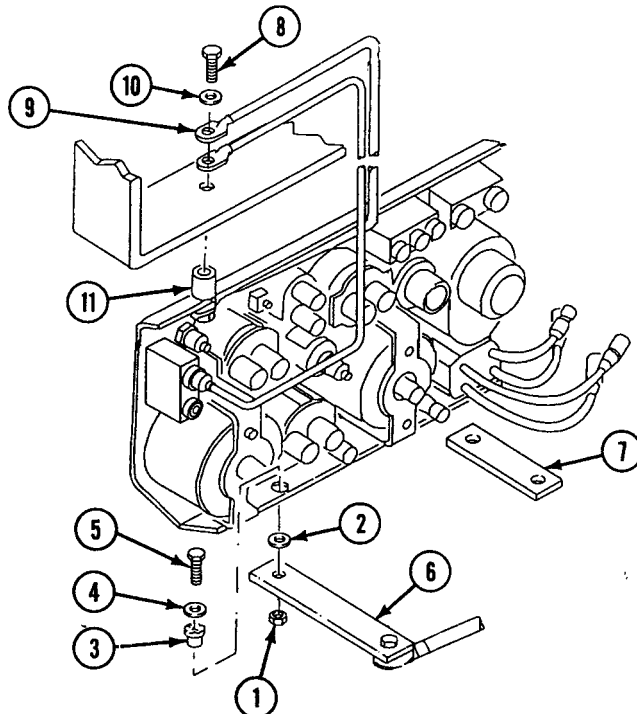
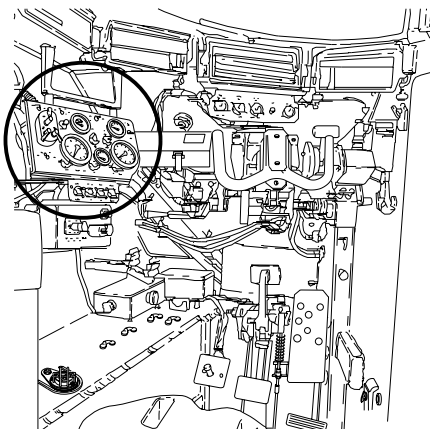
Locknut (2)

Personnel Required

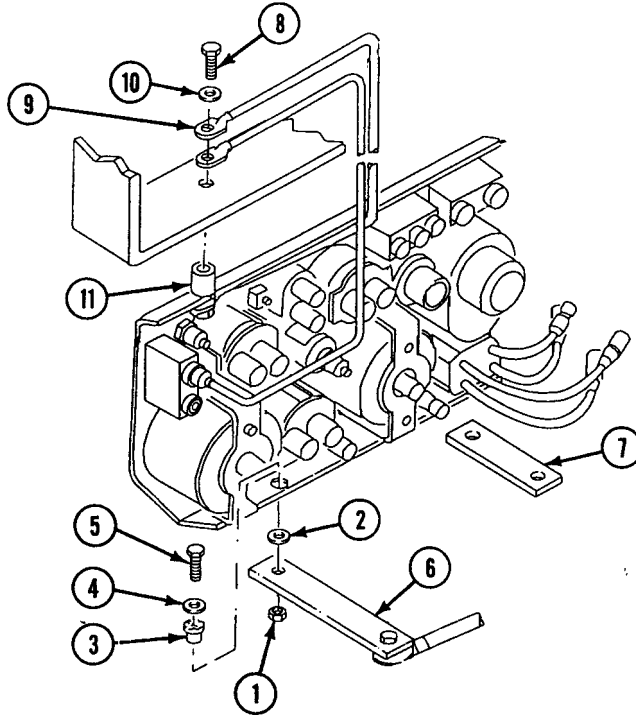
Unit Mechanic 63T10

**REMOVAL**

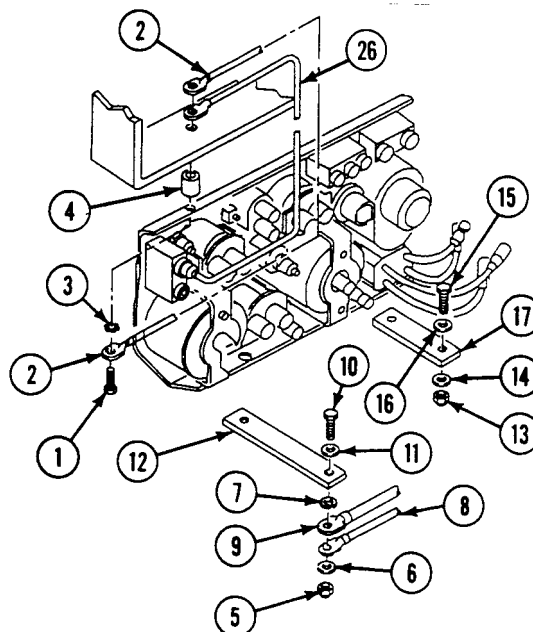
1. REMOVE TWO LOCKNUTS (1), MOUNTS (2), RESILIENT MOUNTS (3), WASHERS (4), AND SCREWS (5) FROM STRUTS (6) AND (7) AND INSTRUMENT PANEL. DISCARD LOCKNUTS AND RESILIENT MOUNTS.



2. SUPPORT INSTRUMENT PANEL AND REMOVE TWO SCREWS (8), GROUND LEAD (9), AND TWO LOCKWASHERS (10) FROM TWO RESILIENT MOUNTS (11) AND UPPER SUPPORT BRACKET. DISCARD LOCKWASHERS.



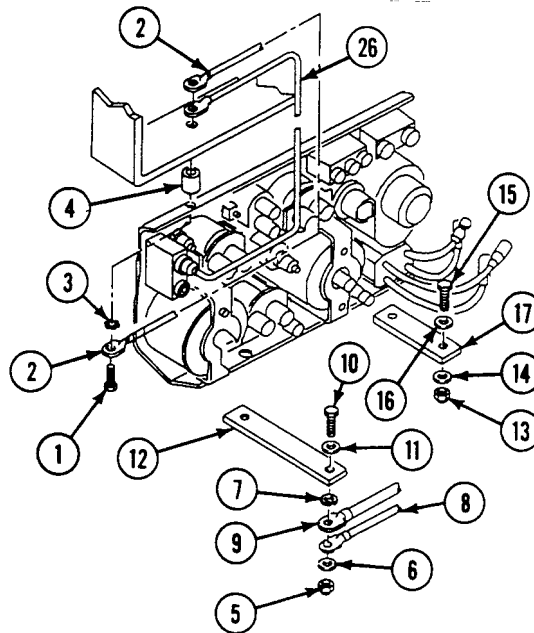
3. TIP INSTRUMENT PANEL FORWARD AND REMOVE TWO SCREWS (1), GROUND LEAD (2), TWO LOCKWASHERS (3), AND RESILIENT MOUNTS (4) FROM INSTRUMENT PANEL. DISCARD LOCKWASHERS.
4. REMOVE NUT (5), WASHER (6), LOCKWASHER (7), GROUND LEAD (8), GROUND LEAD (9), SCREW (10), WASHER (11), AND LONG STRUT (12) FROM HULL MOUNTS. DISCARD LOCKWASHER.



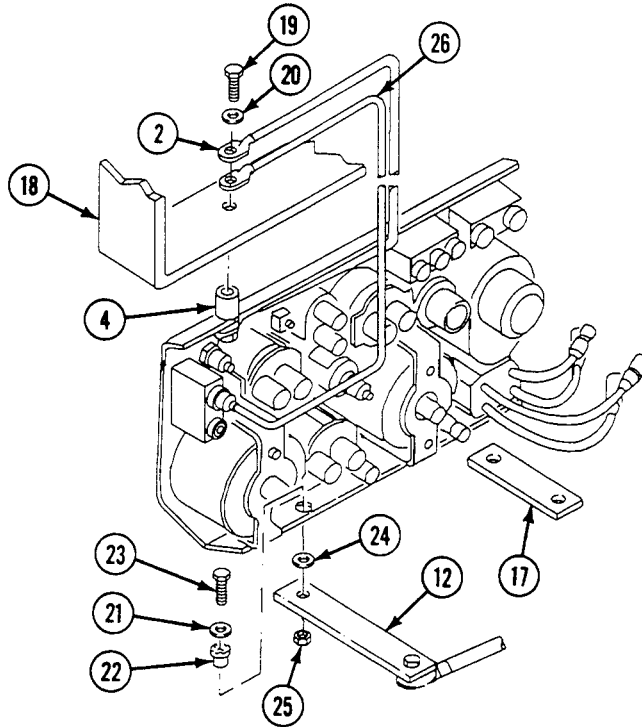
5. REMOVE NUT (13), WASHERS (14), SCREW (15), WASHER (16), AND STRUT (17) FROM HULL MOUNT.

**INSTALLATION**

1. INSTALL STRUT (17) ON HULL MOUNT WITH SCREW (15), WASHER (16), WASHER (14), AND NUT (13). DO NOT TIGHTEN NUT.
2. INSTALL STRUT (12) ON HULL MOUNT WITH SCREW (10), WASHER (11), NEW LOCKWASHER (7), GROUND LEAD (9), GROUND LEAD (8), WASHER (6), AND NUT (5). DO NOT TIGHTEN NUT.
3. INSTALL GROUND LEAD (2) AND TWO NEW LOCKWASHERS (3) ON TWO SCREWS (1). INSERT SCREWS THROUGH INSTRUMENT PANEL AND SECURE WITH TWO RESILIENT MOUNTS (4).



4. SECURE GROUND LEAD (2) AND RESILIENT MOUNT (4) TO UPPER SUPPORT BRACKET (18) WITH SCREW (19) AND NEW LOCKWASHER (20).



5. SECURE OTHER RESILIENT MOUNT (4) TO BRACKET (18) WITH SCREW (19) AND NEW LOCKWASHER (20).
6. INSTALL TWO WASHERS (21) AND NEW RESILIENT MOUNTS (22) ON SCREWS (23), AND POSITION THROUGH INSTRUMENT PANEL. INSTALL TWO MOUNTS (24) ON SCREWS AND INSERT SCREWS THROUGH STRUTS (12) AND (17). SECURE WITH TWO NEW LOCKNUTS (25). TIGHTEN NUTS (5) AND (13).
7. CONNECT BATTERY GROUND STRAP (WP 0237 00).

**END OF TASK**

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**REPLACE WARNING PANEL LIGHTS**

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**0212 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0212 00-2).
- Repair or Replacement (page 0212 00-2).
- Installation (page 0212 00-3).

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**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

- Light bulbs (as needed)
- Lockwasher (2)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
  - Vehicle blocked (TM 9-2350-366-10-1)
  - Battery ground strap disconnected (WP 0237 00).
- 

Personnel Required

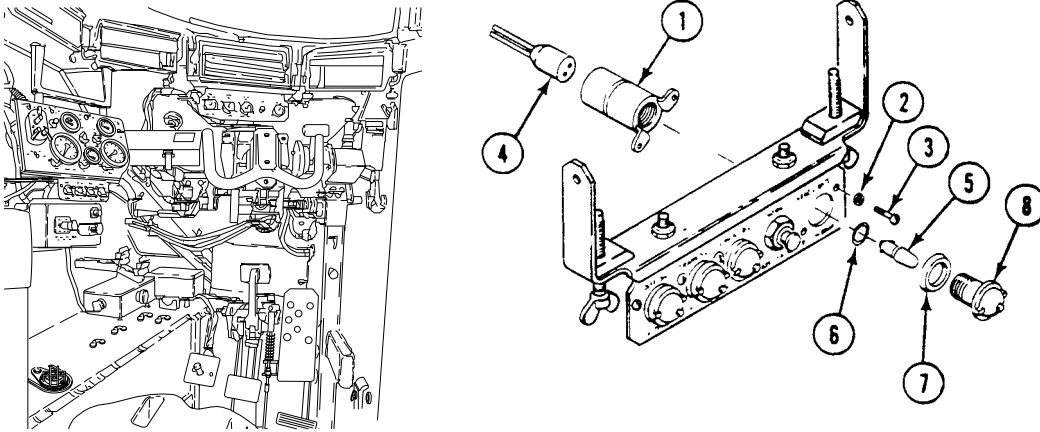
Unit Mechanic 63T10

## REMOVAL

## NOTE

There are four lights on warning panel. All lights are replaced the same way.

1. REMOVE LIGHT BULB (5).
  - a. Turn lens (8) to the left. Remove lens and gasket (7) from light assembly (1).
  - b. Push in and turn light bulb (5) to the left and remove bulb from light assembly (1). Remove gasket (6).



## NOTE

Do not disconnect more than one light at a time. Tag each lead to reconnect to correct contacts. See wiring diagrams at the end of this manual.

2. IF REQUIRED, REMOVE LIGHT ASSEMBLY (1).
  - a. Disconnect circuit lead (4) from light assembly (1).
  - b. Remove two screws (3), lockwashers (2), and light assembly (1) from warning lights panel. Discard lockwashers.

## REPAIR OR REPLACEMENT

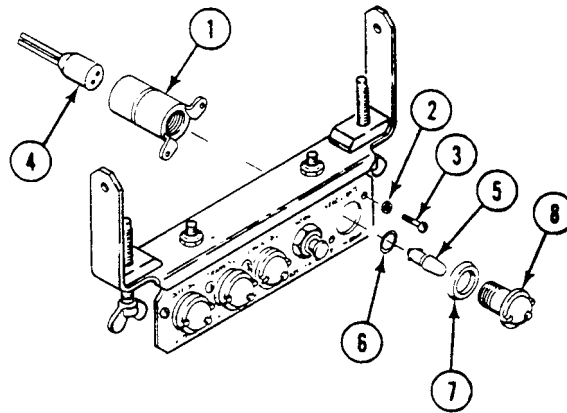
1. CHECK LIGHT BULB. See WP 0039 00, WP 0040 00, WP 0042 00 OR WP 0043 00. REPLACE BAD LIGHT BULB.
2. CHECK LIGHT ASSEMBLY. See WP 0045 00. REPLACE BAD LIGHT ASSEMBLY.

## INSTALLATION

**CAUTION**

**Make sure circuit leads are connected to correct lights. See wiring diagrams at the end of manual.**

1. IF REMOVED, INSTALL LIGHT ASSEMBLY (1).



- a. Install light assembly (1) on rear of warning light panel with two new lockwashers (2) and screws (3).
  - b. Connect circuit lead (4) to light assembly (1).
2. INSTALL LIGHT BULB (5).
    - a. Install gasket (6) and light bulb (5) in light assembly (1). Push and turn light bulb to the right to secure.
    - b. Install gasket (7) and lens (8) in light assembly (1). Turn lens to the right to secure.
  3. CONNECT BATTERY GROUND STRAP (WP 0237 00).
  4. TURN MASTER SWITCH TO ON. See TM 9-2350-366-10-1.
  5. CHECK WARNING PANEL LIGHTS AS FOLLOWS:
    - a. Engine coolant low level light should be off. It will come on when you ground circuit 352 lead.
    - b. Trans oil high temperature indicator should be off. It will come on when you ground circuit lead 327.
    - c. Engine oil low press indicator should be on.
    - d. Steering locked indicator should be on when transmission controller is in SL.
  6. TURN MASTER SWITCH TO OFF. See TM 9-2350-366-10-1.

**END OF TASK**





**REPLACE WARNING LIGHT PANEL**

**0213 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0213 00-1).  
 Installation (page 0213 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 M27 periscope removed (TM 9-2350-366-10-1)  
 Panel warning lights removed (WP 0212 00)  
 Horn switch removed (WP 0250 00)

Materials/Parts

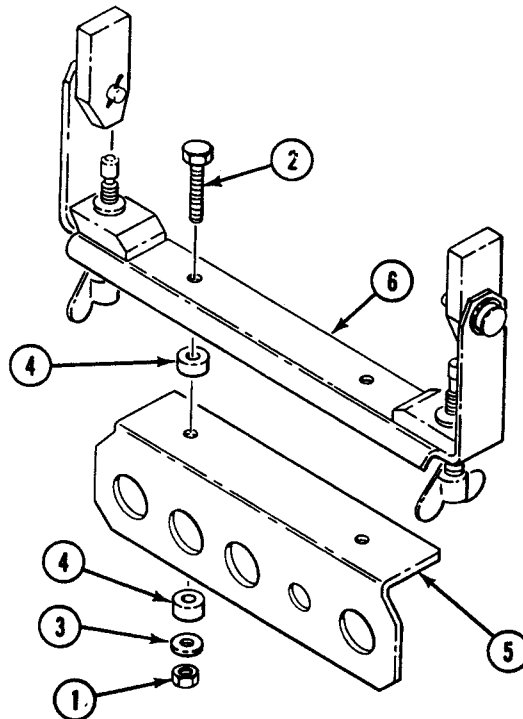
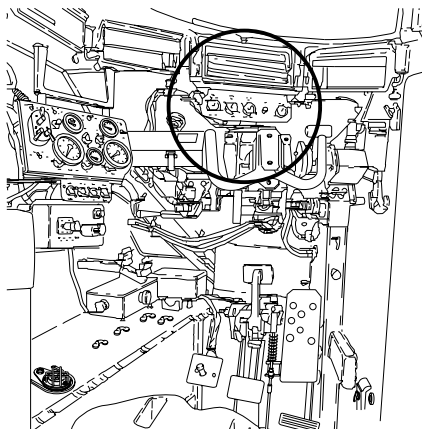
Locknut (2)

Personnel Required

Unit Mechanic 63T10

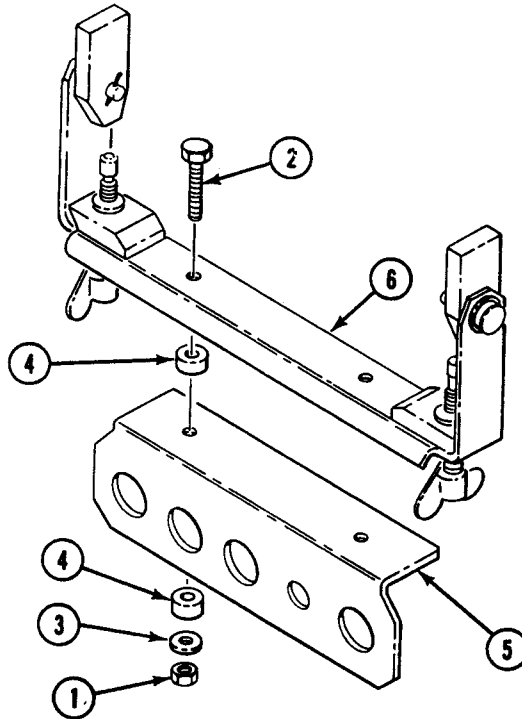
**REMOVAL**

1. REMOVE TWO LOCKNUTS (1), SCREWS (2), WASHERS (3), FOUR MOUNTS (4), AND PANEL (5) FROM BRACKET (6). DISCARD LOCKNUTS.



**INSTALLATION**

1. INSTALL PANEL (5) ON BRACKET (6) WITH TWO SCREWS (2), WASHERS (3), FOUR MOUNTS (4), AND NEW LOCKNUTS (1).



2. INSTALL HORN SWITCH (WP 0250 00).
3. INSTALL PANEL WARNING LIGHTS (WP 0212 00).
4. INSTALL M27 PERISCOPE. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE WARNING LIGHT PANEL ASSEMBLY**

**0214 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0214 00-1).  
 Installation (page 0214 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Materials/Parts

Cotter pin (2)

Vehicle blocked (TM 9-2350-366-10-1)

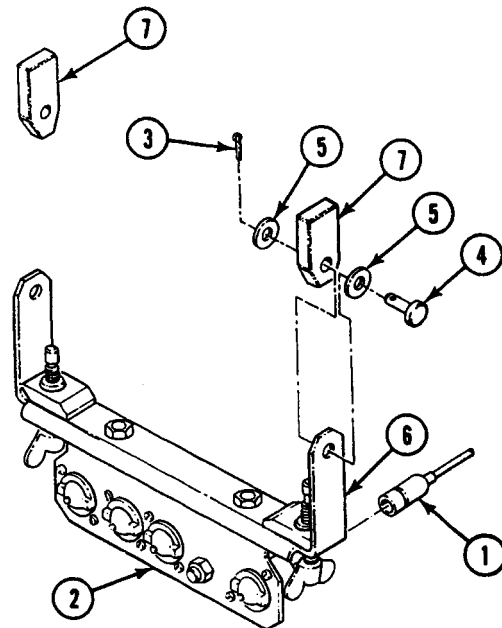
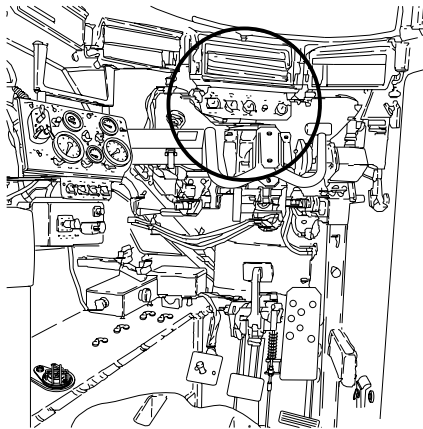
Personnel Required

Unit Mechanic 63T10

M27 periscope removed (TM 9-2350-366-10-1)

**REMOVAL**

1. DISCONNECT FIVE CONNECTORS (1) FROM REAR OF WARNING LIGHT PANEL (2).
2. REMOVE TWO COTTER PINS (3), STRAIGHT PINS (4), WASHERS (5), AND PANEL (2) WITH MOUNT BRACKET (6) FROM HULL MOUNTS (7). DISCARD COTTER PINS.



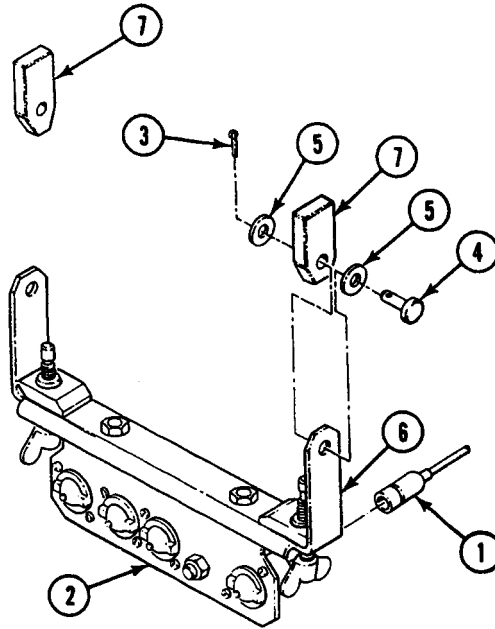
**INSTALLATION**

1. INSTALL MOUNT BRACKET (6) ON HULL MOUNTS (7) WITH TWO STRAIGHT PINS (4), WASHERS (5), AND NEW COTTER PINS (3).

**NOTE**

**Be sure to connect leads to their proper indicators. See wiring diagrams at the end of this manual.**

2. CONNECT FIVE CONNECTORS (1) ON REAR OF PANEL (2).



3. INSTALL M27 PERISCOPE. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE INSTRUMENT PANEL SPECIAL PURPOSE CABLE**

**0215 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0215 00-1).  
 Installation (page 0215 00-5).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Battery ground strap disconnected (WP 0237 00)

Cables disconnected from speedometer and tachometer (WP 0195 00)

Materials/Parts

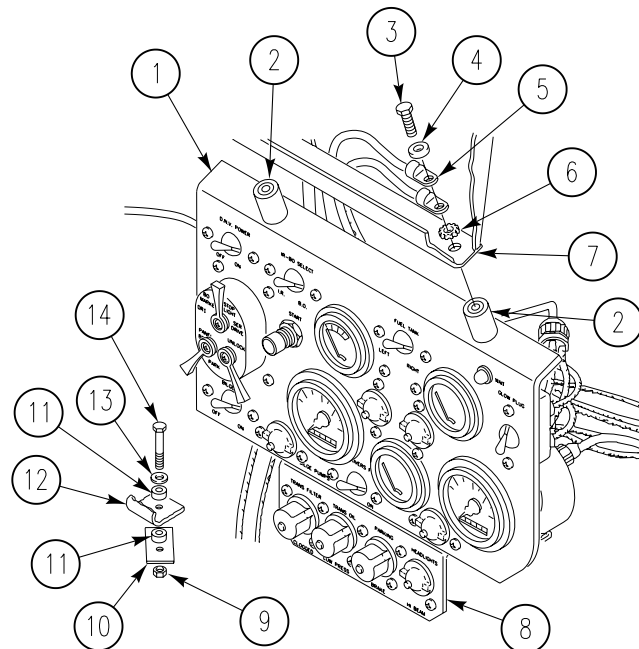
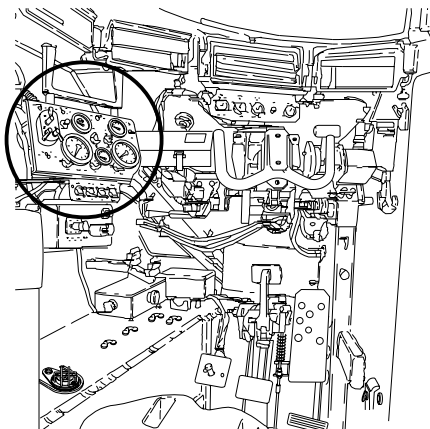
Lock washer

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. REMOVE TWO NUTS (9), MOUNTS (11), WASHERS (13), AND SCREWS (14) THAT SECURE INSTRUMENT PANEL (1) TO TWO STRUTS (12).



2. ON SUPPORT PANEL (1) REMOVE TWO SCREWS (3), WASHERS (4), ONE LOCKWASHER (6), AND GROUND LEAD (5) FROM TWO MOUNTS (2) AND UPPER SUPPORT (7). DISCARD LOCK WASHER.
3. SUPPORT PANEL (1) ON TWO STRUTS (12) TO GAIN ACCESS TO REAR OF PANEL.

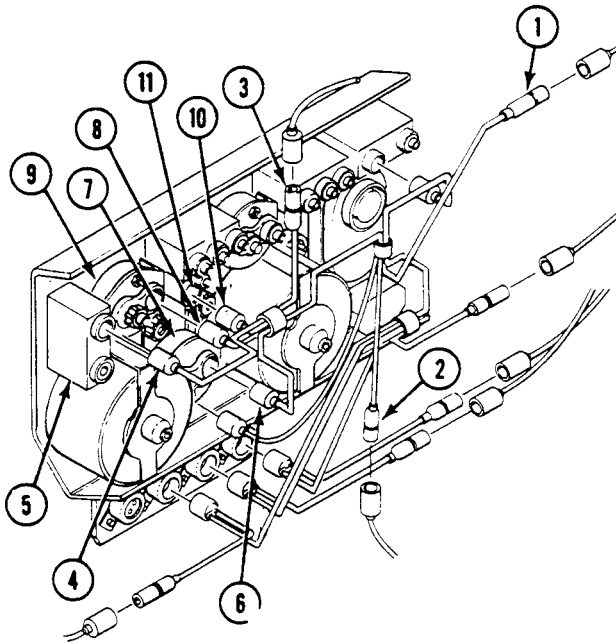
**NOTE**

All wiring harnesses except special purpose cable removed for clarity.

**NOTE**

All leads are shown from the back of the instrument panel.

4. DISCONNECT CIRCUIT LEAD 38 (1) FROM INSTRUMENT PANEL WIRING HARNESS.



5. DISCONNECT CIRCUIT 25A LEAD (2) FROM PANEL WIRING HARNESS.
6. DISCONNECT CIRCUIT 27F LEAD (3) FROM PANEL WIRING HARNESS.
7. DISCONNECT CIRCUIT 27C LEAD (4) FROM AIR BOX HEATER SWITCH (5).
8. DISCONNECT CIRCUIT 27B LEAD (6) FROM ENGINE COOLANT TEMPERATURE GAUGE (7).
9. DISCONNECT CIRCUIT 27A LEAD (8) FROM FUEL QUANTITY GAUGE (9).
10. DISCONNECT CIRCUIT 27 LEAD (10) FROM INSTRUMENT PANEL CIRCUIT BREAKER (11).

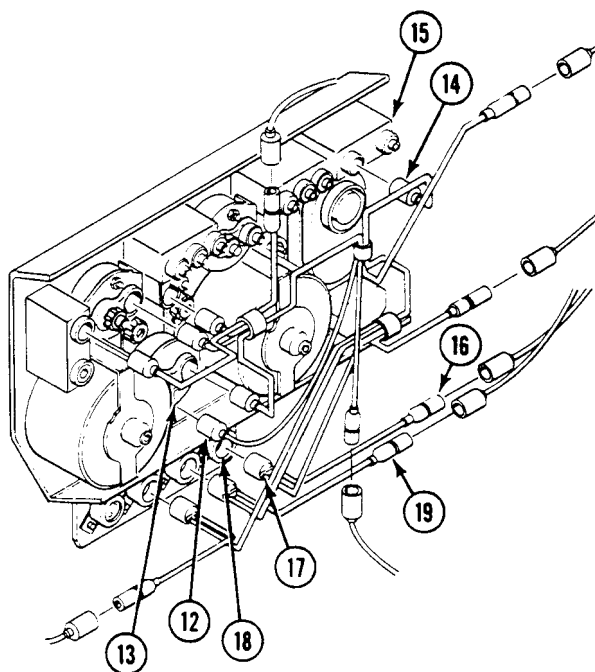
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**REPLACE INSTRUMENT PANEL SPECIAL PURPOSE CABLE — Continued**

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0215 00

11. DISCONNECT CIRCUIT 459 LEAD (12) FROM MASTER SWITCH ON INDICATOR LIGHT (13).
12. DISCONNECT CIRCUIT 323 LEAD (16) FROM INSTRUMENT PANEL WIRING HARNESS.
13. DISCONNECT CIRCUIT 323 AND 27R LEADS (17) FROM TRANS FILTER CLOGGED INDICATOR (18).
14. DISCONNECT CIRCUIT 367 LEAD (19) FROM PANEL WIRING HARNESS.



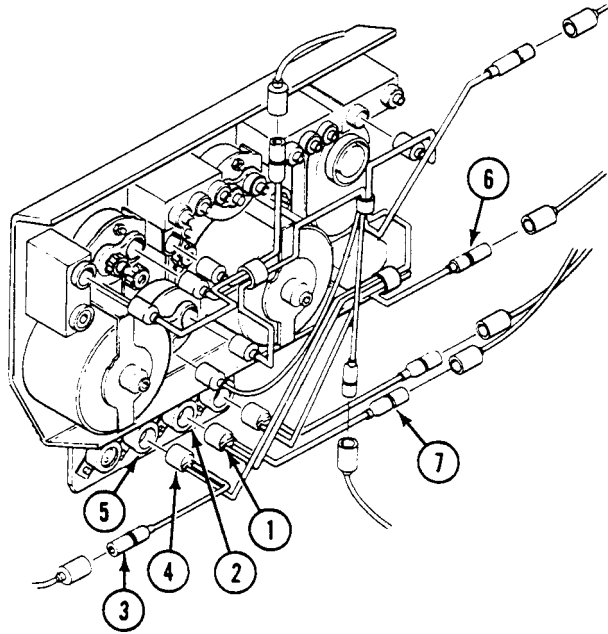
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**REPLACE INSTRUMENT PANEL SPECIAL PURPOSE CABLE — Continued**

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**0215 00**

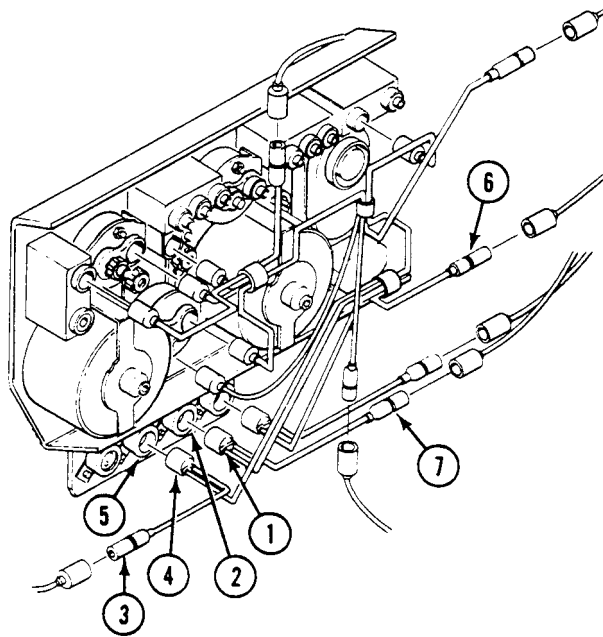
15. DISCONNECT CIRCUIT 367 AND 27L LEADS (1) FROM TRANS OIL LOW PRESS INDICATOR (2).
16. DISCONNECT CIRCUIT 370 LEAD (3) FROM PANEL WIRING HARNESS.
17. DISCONNECT CIRCUIT 370 AND 27M (4) FROM PARKING BRAKE INDICATOR (5).
18. DISCONNECT CIRCUIT 27P LEAD (6) FROM PANEL WIRING HARNESS.
19. REMOVE SPECIAL PURPOSE CABLE.



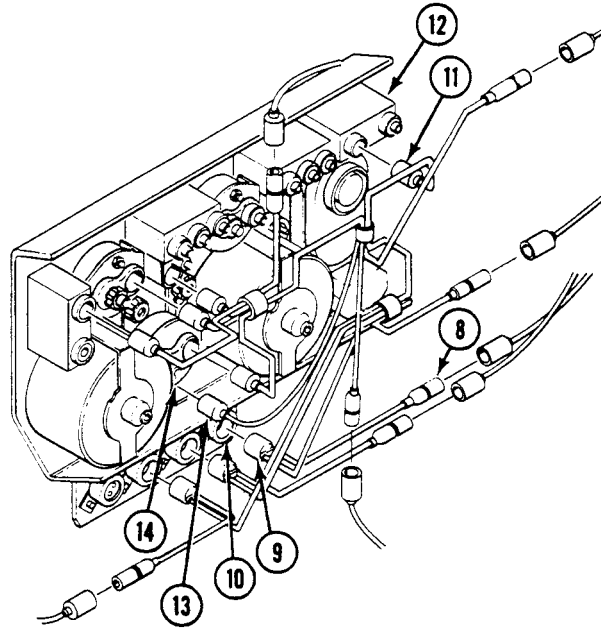


**INSTALLATION**

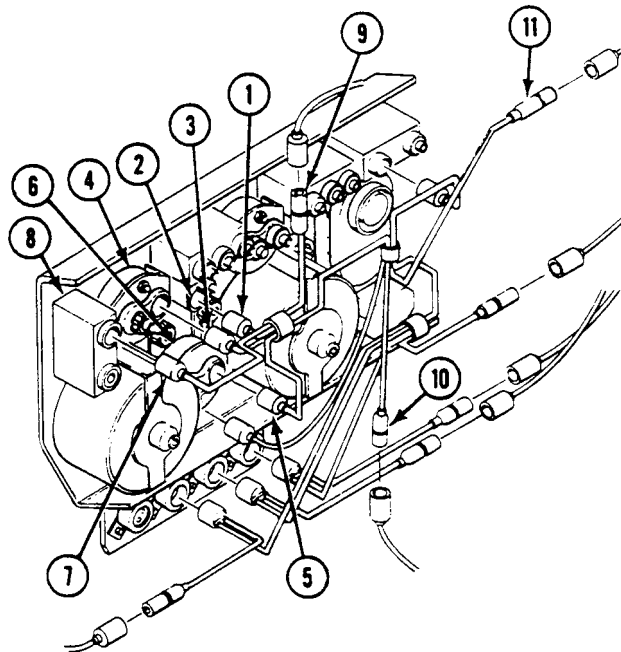
1. INSTALL SPECIAL PURPOSE CABLE.
2. CONNECT CIRCUIT 27P LEAD (6) TO INSTRUMENT PANEL WIRING HARNESS.
3. CONNECT CIRCUIT 370 LEAD (3) TO PANEL WIRING HARNESS.
4. CONNECT CIRCUIT 370 AND 27M LEADS (4) TO PARKING BRAKE INDICATOR (5).
5. CONNECT CIRCUIT 367 LEAD (7) TO PANEL WIRING HARNESS.
6. CONNECT CIRCUIT 367 AND 27L LEADS (1) TO TRANS OIL LOW PRESS INDICATOR (2).



7. CONNECT CIRCUIT 323 LEAD (8) TO PANEL WIRING HARNESS.

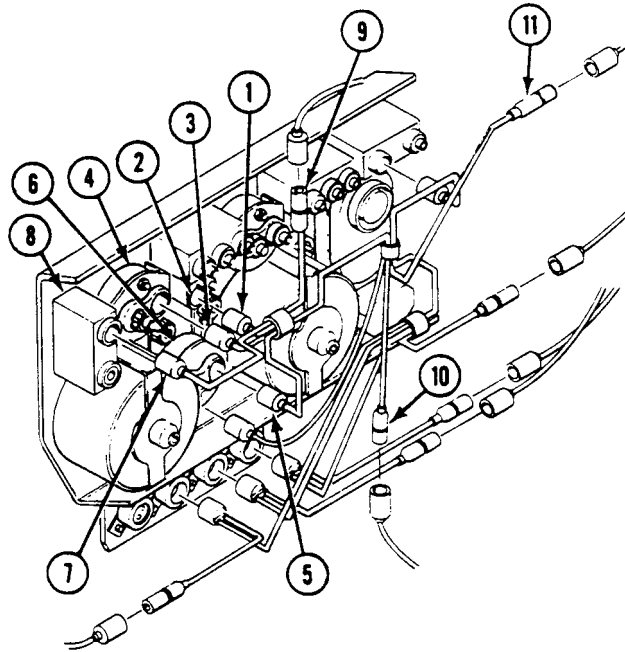


8. CONNECT CIRCUIT 323 AND 27R LEADS (9) TO TRANS FILTER CLOGGED INDICATOR (10).  
 9. CONNECT CIRCUIT 459 LEAD (13) TO MASTER SWITCH ON INDICATOR LIGHT (14).  
 10. CONNECT CIRCUIT 27 LEAD (1) TO INSTRUMENT PANEL CIRCUIT BREAKER (2).

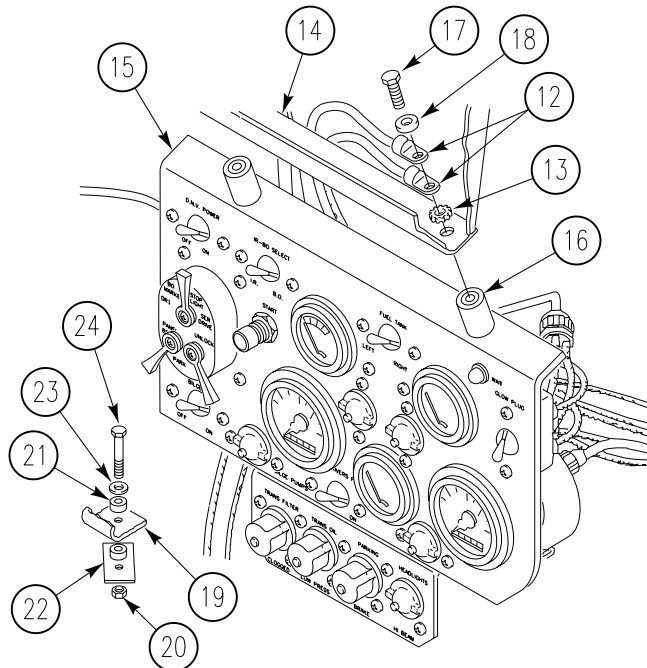


11. CONNECT CIRCUIT 27A LEAD (3) TO FUEL QUANTITY GAUGE (4).  
 12. CONNECT CIRCUIT 27B LEAD (5) TO ENGINE COOLANT TEMPERATURE GAUGE (6).

13. CONNECT CIRCUIT 27C LEAD (7) TO AIR BOX HEATER SWITCH (8).
14. CONNECT CIRCUIT 27F LEAD (9) TO PANEL WIRING HARNESS.
15. CONNECT CIRCUIT 25A LEAD (10) TO PANEL WIRING HARNESS.
16. CONNECT CIRCUIT 38 LEAD (11) TO PANEL WIRING HARNESS.



17. INSTALL GROUND LEAD (12) AND NEW LOCK WASHER (13) ON UPPER SUPPORT (14).



18. INSTALL INSTRUMENT PANEL (15) WITH TWO MOUNTS (16) ON SUPPORT (14) WITH TWO SCREWS (17) AND WASHERS (18).
19. INSTALL PANEL (15) ON TWO STRUTS (19) WITH TWO NUTS (20), MOUNTS (21) AND (22), WASHERS (23), AND SCREWS (24).

20. CONNECT CABLES TO SPEEDOMETER AND TACHOMETER (WP 0195 00).
21. CONNECT BATTERY GROUND STRAP (WP 0237 00).
22. TURN MASTER SWITCH TO ON. See TM 9-2350-366-10-1.
23. CHECK GAUGES AND INSURE LIGHTS WORK. See TM 9-2350-366-10-1.
24. TURN MASTER SWITCH TO OFF. See TM 9-2350-366-10-1.

**END OF TASK**

# REPLACE INSTRUMENT PANEL BATTERY-GENERATOR GAUGE WIRING HARNESS

0216 00

## THIS WORK PACKAGE COVERS:

Removal (page 0216 00-1).  
 Installation (page 0216 00-3).

## INITIAL SETUP:

### Maintenance Level

Unit

### References

TM 9-2350-366-10-1

### Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

### Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Battery ground strap disconnected (WP 0237 00)

Tachometer and speedometer cables disconnected from instrument panel gauges (WP 0195 00)

### Materials/Parts

Locknut (10)

Lock washer

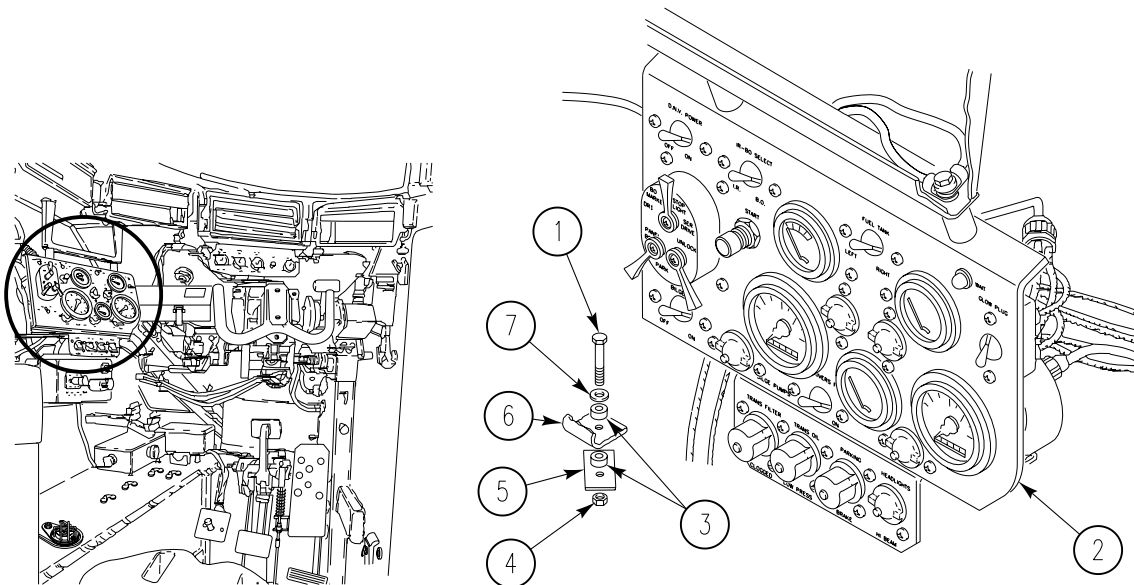
Lock washer

### Personnel Required

Unit Mechanic 63T10

## REMOVAL

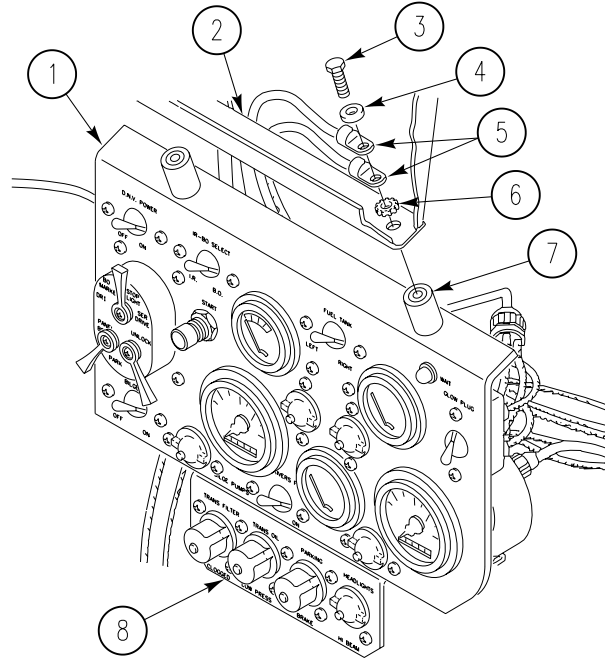
1. REMOVE TWO LOCKNUTS (4), MOUNTS (3) AND (6), WASHERS (7), AND SCREWS (1) THAT SECURE INSTRUMENT PANEL (2) TO TWO STRUTS (5). DISCARD LOCKNUTS.



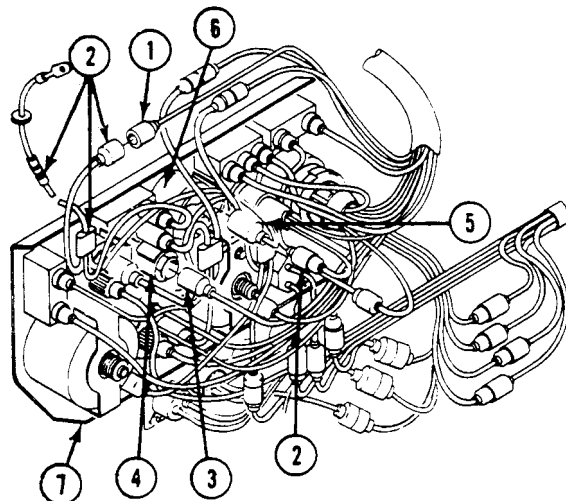
**REPLACE INSTRUMENT PANEL BATTERY-GENERATOR GAUGE WIRING HARNESS —**  
**Continued**

0216 00

2. SUPPORT PANEL (1). REMOVE TWO SCREWS (3), WASHERS (4), ONE LOCK WASHER (6), AND GROUND STRAP (5) FROM TWO MOUNTS (7) AND UPPER SUPPORT (2). DISCARD LOCK WASHER.
3. SUPPORT PANEL (1) ON TWO MOUNTS (7) TO GAIN ACCESS TO REAR OF PANEL.



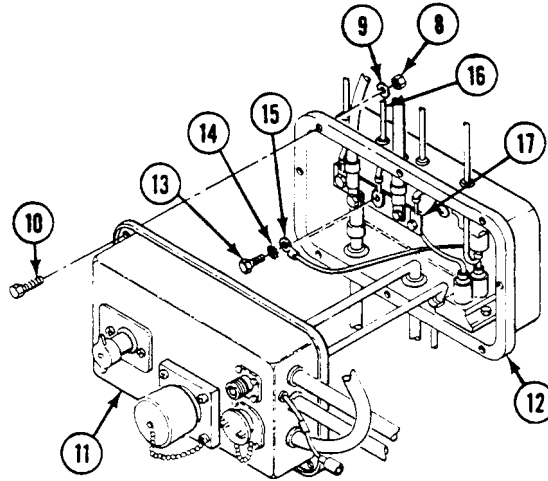
4. DISCONNECT CIRCUIT 15 LEAD (1) FROM INSTRUMENT PANEL WIRING HARNESS (2).
5. DISCONNECT CIRCUIT 10 LEAD (3) FROM PANEL CIRCUIT BREAKER (4).
6. DISCONNECT CIRCUIT 27E LEAD (5) FROM BATTERY GENERATOR GAUGE (6).
7. REMOVE PANEL WIRING HARNESS (2) FROM INSTRUMENT PANEL (7).



**REPLACE INSTRUMENT PANEL BATTERY-GENERATOR GAUGE WIRING HARNESS —**  
**Continued**

0216 00

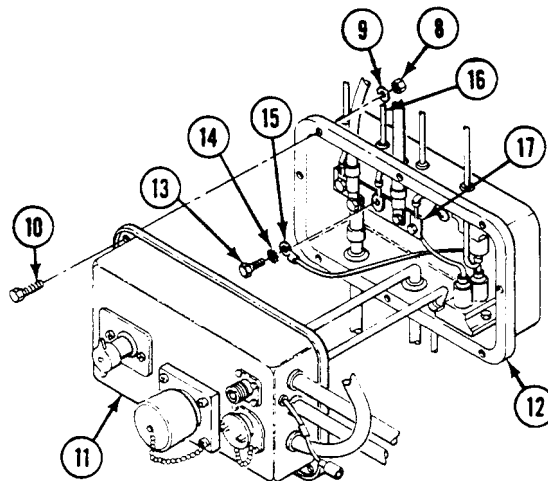
8. REMOVE EIGHT LOCKNUTS (8), WASHERS (9), SCREWS (10) AND MASTER SWITCH PANEL (11) FROM DISTRIBUTION BOX (12). DISCARD LOCKNUTS.



9. REMOVE SCREW (13), LOCK WASHER (14), CIRCUIT 450A LEAD (15), AND HARNESS LEAD (16) FROM BUS BAR (17). DISCARD LOCK WASHER.
10. REMOVE PANEL WIRING HARNESS LEAD (16) FROM DISTRIBUTION BOX (12).

**INSTALLATION**

1. INSTALL HARNESS LEAD (16) THROUGH HOLE IN TOP OF DISTRIBUTION BOX (12). SECURE HARNESS LEAD AND CIRCUIT 450A LEAD (15) TO BUS BAR (17) WITH NEW LOCK WASHER (14) AND SCREW (13).

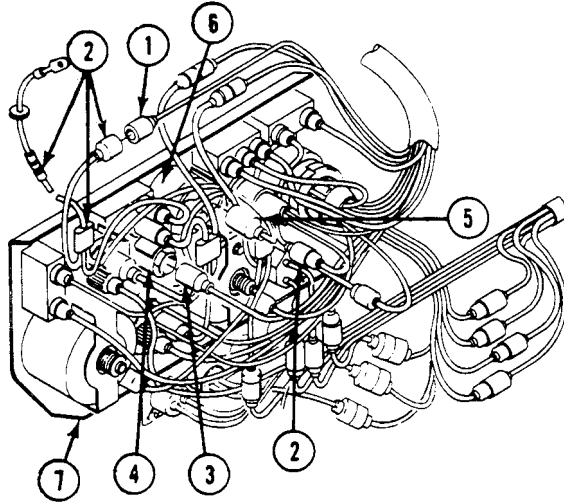


2. INSTALL MASTER SWITCH PANEL (11) ON DISTRIBUTION BOX (12) WITH EIGHT SCREWS (10), WASHERS (9), AND NEW LOCKNUTS (8).

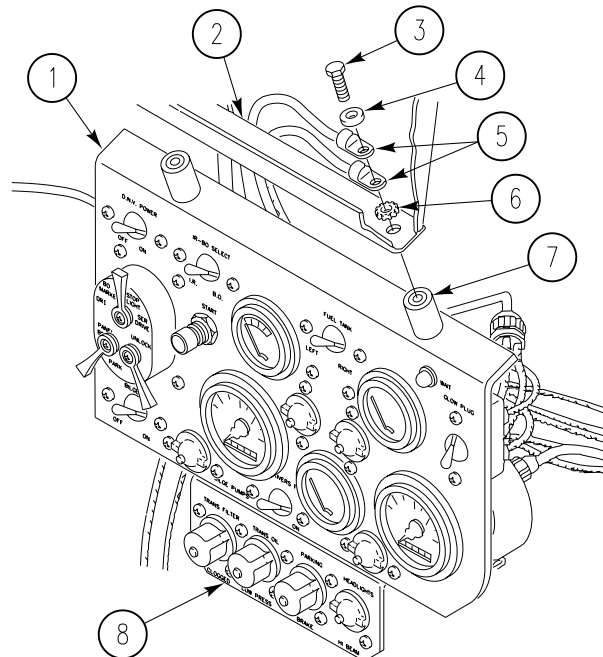
REPLACE INSTRUMENT PANEL BATTERY-GENERATOR GAUGE WIRING HARNESS —  
Continued

0216 00

3. CONNECT CIRCUIT 27E LEAD (5) TO BATTERY GENERATOR GAUGE (6).



4. CONNECT CIRCUIT 10 LEAD (3) TO INSTRUMENT PANEL CIRCUIT BREAKER (4).
5. CONNECT CIRCUIT 15 LEAD (1) TO PANEL WIRING HARNESS.
6. SUPPORT PANEL (1). INSTALL TWO SCREWS (3), WASHERS (4), ONE NEW LOCK WASHER (6), AND GROUND STRAP (5) ON TWO MOUNTS (7) AND UPPER SUPPORT (2).

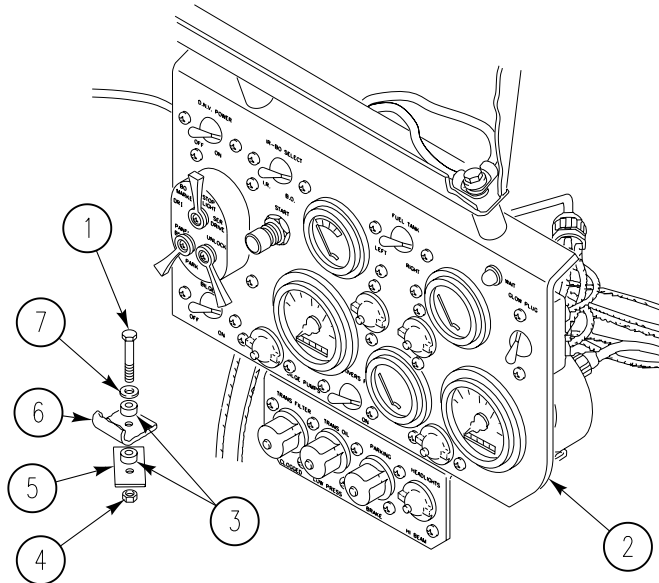




**REPLACE INSTRUMENT PANEL BATTERY-GENERATOR GAUGE WIRING HARNESS —**  
**Continued**

**0216 00**

7. INSTALL TWO NEW LOCKNUTS (4), MOUNTS (3) AND (6), WASHERS (7), AND SCREWS (1) THAT SECURE INSTRUMENT PANEL (2) TO TWO STRUTS (5).



8. CONNECT TACHOMETER AND SPEEDOMETER CABLES TO INSTRUMENT PANEL GAUGES (WP 0195 00).
9. CONNECT BATTERY GROUND STRAP (WP 0237 00).
10. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1. CHECK THAT BATTERY GENERATOR GAUGE OPERATES PROPERLY.
11. TURN MASTER SWITCH OFF. See TM 9-2350-366-10-1.

**END OF TASK**



**REPLACE INSTRUMENT WARNING LIGHT PANEL**

**0217 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0217 00-1).  
 Installation (page 0217 00-1)

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Materials/Parts

Locknut (2)

Vehicle blocked (TM 9-2350-366-10-1)

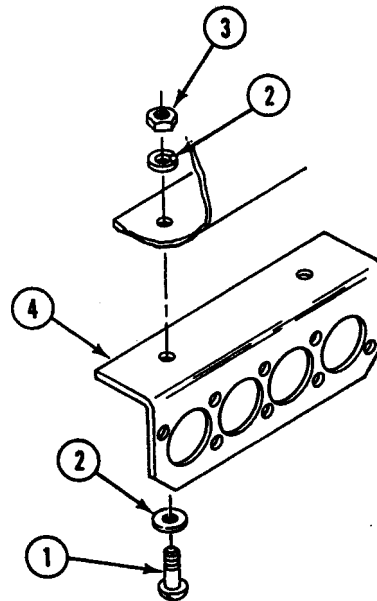
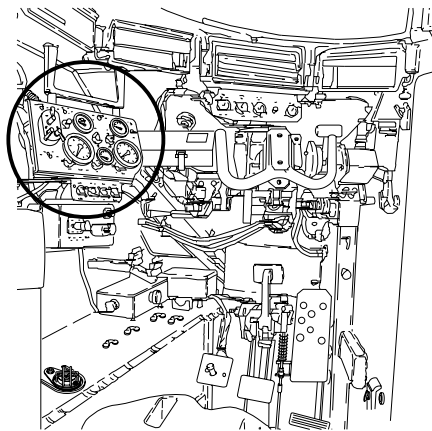
Personnel Required

Unit Mechanic 63T10

Instrument panel warning lights removed (WP 0212 00)

**REMOVAL**

1. REMOVE TWO SCREWS (1), FOUR WASHERS (2), TWO LOCKNUTS (3) AND WARNING LIGHT PANEL (4) FROM INSTRUMENT PANEL. DISCARD LOCKNUTS.



**INSTALLATION**

1. INSTALL WARNING LIGHT PANEL (4) ON BOTTOM OF INSTRUMENT PANEL WITH TWO SCREWS (1), FOUR WASHERS (2), AND TWO NEW LOCKNUTS (3).
2. INSTALL INSTRUMENT PANEL WARNING LIGHTS (WP 0212 00).

**END OF TASK**



**REPLACE INSTRUMENT PANEL WARNING LIGHTS**

**0218 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0218 00-1).
- Repair or Replacement (page 0218 00-2).
- Installation (page 0218 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

- Light bulb (as needed)
- Lock washer (2)

Equipment Condition

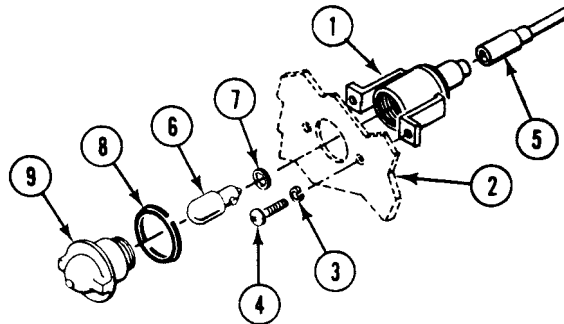
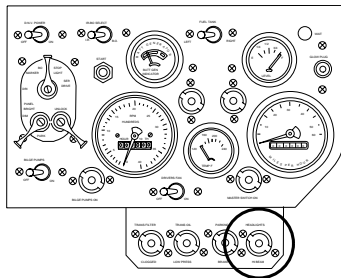
- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Battery ground strap disconnected (WP 0237 00)

**REMOVAL**

**NOTE**

All lights are replaced the same way.

1. REMOVE LIGHT BULB (6).



- a. Turn lens (9) to the left. Remove lens and gasket (8) from light assembly (1).
- b. Push in and turn light bulb (6) to the left, and remove bulb and gasket (7) from light assembly (1).

**NOTE**

**Do not disconnect more than one light at a time. Mark each lead to make sure you reconnect to correct contacts. See wiring diagrams at the end of this manual.**

2. IF REQUIRED, REMOVE LIGHT ASSEMBLY (1).
  - a. Disconnect circuit lead (5) from light assembly (1).
  - b. Remove two screws (4), lock washers (3), and light assembly (1) from warning lights panel (2). Discard lock washers.

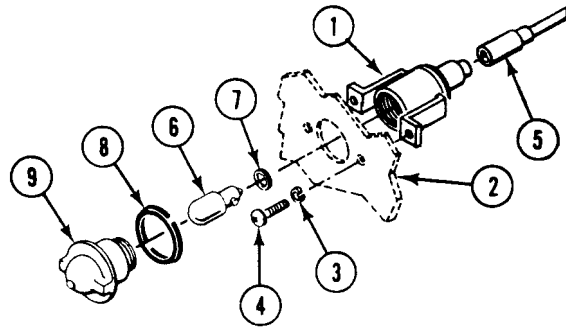
**REPAIR OR REPLACEMENT**

1. CHECK LIGHT BULB. See WP 0039 00, WP 0040 00, WP 0042 00 OR WP 0043 00. REPLACE BAD LIGHT BULB.
2. CHECK LIGHT ASSEMBLY. See WP 0045 00. REPLACE BAD LIGHT ASSEMBLY.

**INSTALLATION****CAUTION**

**Make sure circuit leads are connected to correct lights. See wiring diagrams at the end of this manual.**

1. IF REMOVED, INSTALL LIGHT ASSEMBLY (1).



- a. Install light assembly (1) on rear of warning lights panel (2) with two new lock washers (3) and screws (4).
- b. Connect circuit lead (5) to light assembly (1).
2. INSTALL LIGHT BULB (6).
  - a. Install gasket (7) and light bulb (6) in light assembly (1). Push and turn light bulb to the right to secure.
  - b. Install gasket (8) and lens (9) in light assembly (1). Turn lens to the right to secure.
3. CONNECT BATTERY GROUND STRAP (WP 0237 00).
4. TURN MASTER SWITCH TO ON. See TM 9-2350-366-10-1.
5. CHECK INSTRUMENT PANEL WARNING LIGHTS AS FOLLOWS:
  - a. Trans filter clogged light should be off.
  - b. Ground circuit 323 lead at back of panel. Trans filter clogged light should be on. Remove ground.
  - c. Trans oil low press light should be on.
  - d. Parking brake light should be on when parking brake is on.
  - e. Turn on headlights and depress high beam selector switch. Headlights hi beam light should be on when headlights are on high beam. Turn off headlights.
6. TURN MASTER SWITCH OFF. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE PANEL LIGHTS AND INDICATOR LIGHTS**

**0219 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0219 00-1).  
 Installation (page 0219 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

Light bulb (as needed)  
 Lock washer (2)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Battery ground strap disconnected (WP 0237 00)

Personnel Required

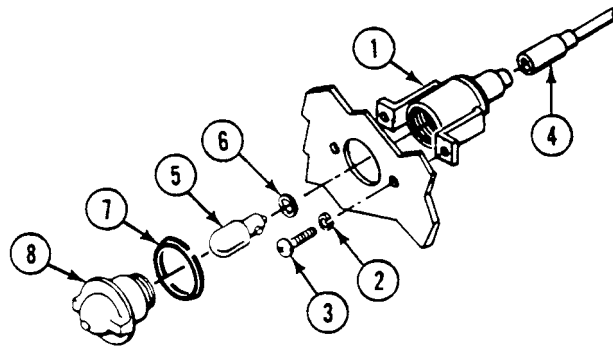
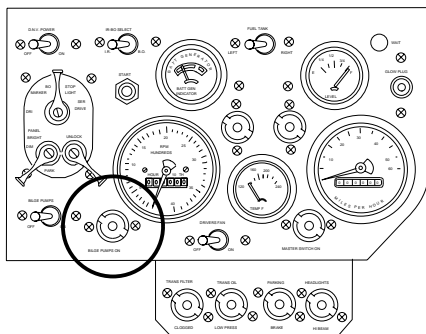
Unit Mechanic 63T10

**REMOVAL**

**NOTE**

**There are two panel lights and three indicator lights on instrument panel. Except for the number of leads, all lights are replaced the same way.**

1. REMOVE LIGHT BULB (5).



- a. Turn lens (8) to the left. Remove lens and gasket (7) from light assembly (1).
- b. Push in and turn light bulb (5) to the left, and remove bulb and gasket (6) from light assembly (1).

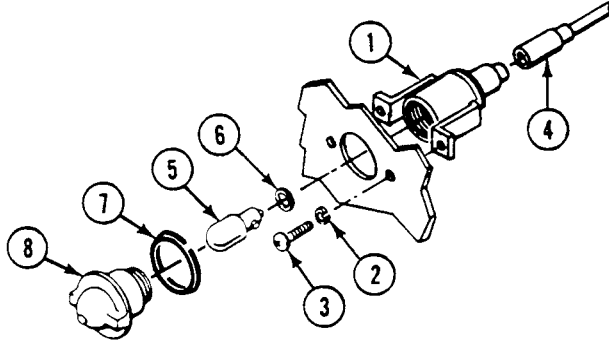
**NOTE**

**Do not disconnect more than one light at a time. Mark each lead to make sure you reconnect to correct contacts. See wiring diagrams at the end of this manual.**

2. IF REQUIRED, REMOVE LIGHT ASSEMBLY (1).
  - a. Disconnect circuit lead (4) from light assembly (1).
  - b. Remove two screws (3), lock washers (2), and light assembly (1) from instrument panel. Discard lock washers.

**INSTALLATION**

1. IF REMOVED, INSTALL LIGHT ASSEMBLY (1).



- a. Install light assembly (1) on rear of instrument panel with two new lock washers (2) and screws (3).

**CAUTION**

**Make sure circuit leads are connected to correct lights. See wiring diagrams at the end of this manual.**

- b. Connect circuit lead (4) to light assembly (1).
2. INSTALL LIGHT BULB (5).
  - a. Install gasket (6) and light bulb (5) in light assembly (1). Push and turn light bulb to the right to secure.
  - b. Install gasket (7) and lens (8) in light assembly (1). Turn lens to the right to secure.
3. CONNECT BATTERY GROUND STRAP (WP 0237 00).
4. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1.
5. TURN PANEL LIGHTS SWITCH ON, OR BILGE PUMPS SWITCH ON, AS NEEDED, TO CHECK FOR PROPER INSTALLATION OF LIGHT ASSEMBLY. See TM 9-2350-366-10-1.
6. TURN ALL SWITCHES ON PANEL OFF.
7. TURN MASTER SWITCH OFF. See TM 9-2350-366-10-1.

**END OF TASK**



**REPLACE INSTRUMENT PANEL ASSEMBLY**

**0220 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0220 00-1).  
 Installation (page 0220 00-5).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Electrical connector pliers (WP 0397 00, Item 31)

Personnel Required

Unit Mechanic 63T10

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Battery ground strap disconnected (WP 0237 00)  
 Tachometer and speedometer cables disconnected from instrument panel gauges (WP 0195 00)  
 Instrument panel, mounts, and two ground leads removed from struts (WP 0211 00)

References

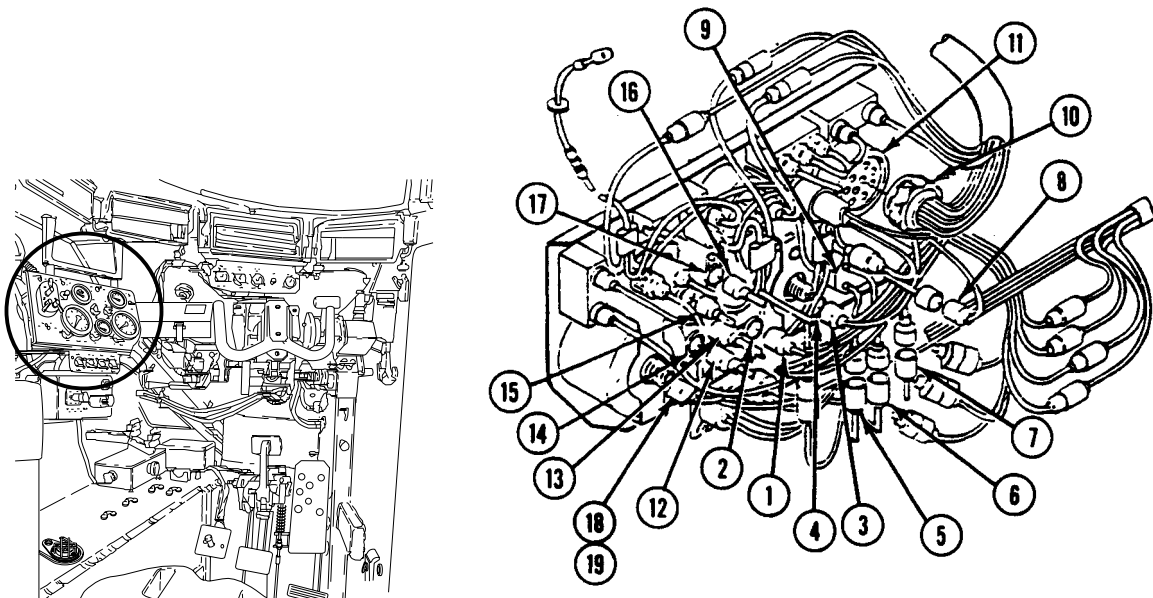
TM 9-2350-366-10-1

**REMOVAL**

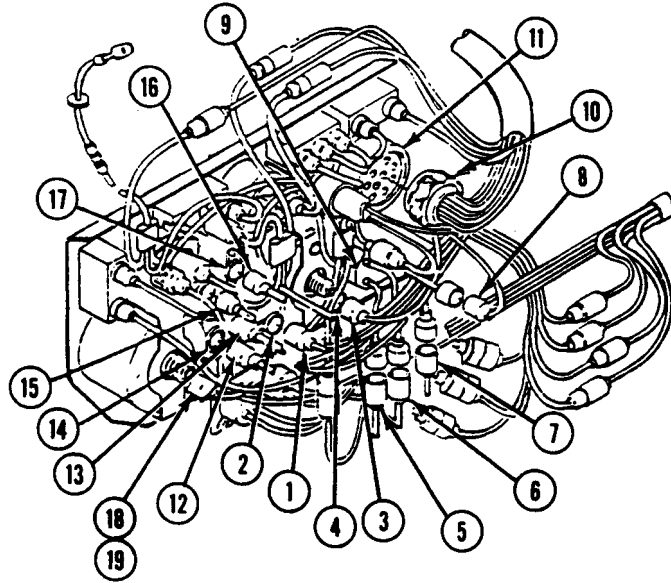
**NOTE**

**Ensure all leads are marked for assembly.**

1. DISCONNECT LEAD 451B (1) FROM REAR BILGE PUMP ON INDICATOR (2).

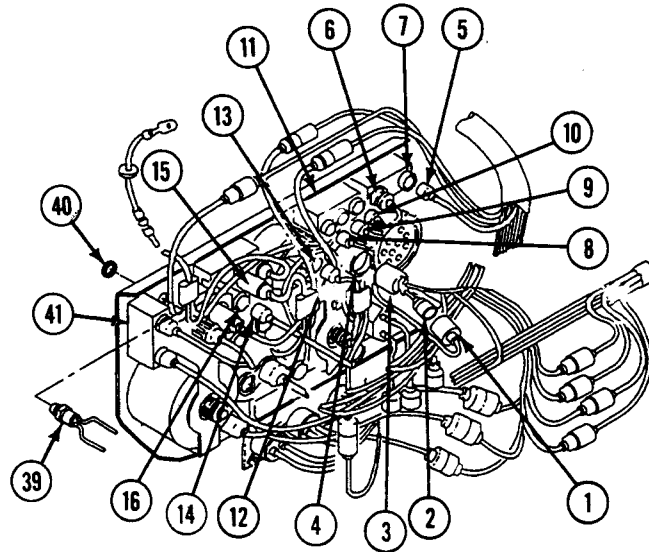


- DISCONNECT LEAD 452B (3) FROM FRONT BILGE PUMP ON INDICATOR (4).



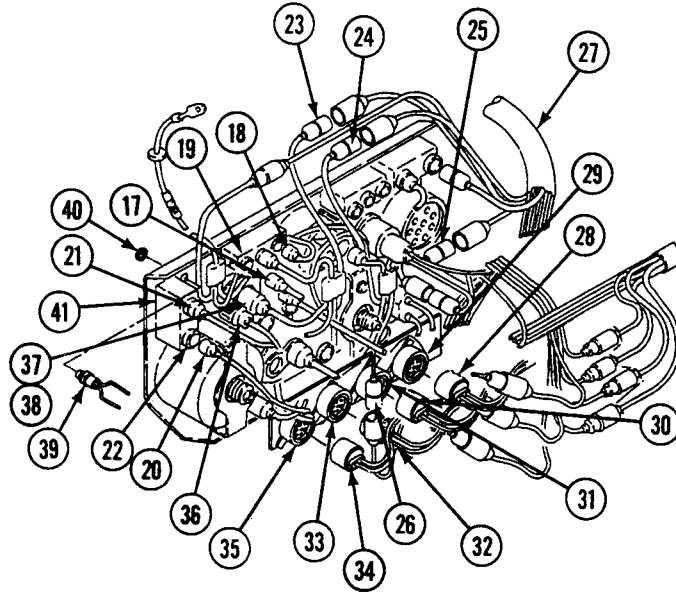
- DISCONNECT LEAD 450B (5), LEAD 450 (6), LEAD 451A (7), AND LEAD 452A (8) FROM BILGE PUMP SWITCH (9).
- DISCONNECT FRONT MAIN HARNESS CONNECTOR (10) FROM MAIN LIGHT SWITCH (11).
- DISCONNECT LEAD 33 (12) AND SPECIAL PURPOSE HARNESS LEAD 27B (13) FROM ENGINE COOLANT TEMPERATURE GAUGE (14).
- DISCONNECT TWO CIRCUIT 40 LEADS (15) AND (16) FROM LAMP ASSEMBLY (17).
- DISCONNECT SPECIAL PURPOSE HARNESS LEAD 459 (18) FROM MASTER SWITCH INDICATOR (19).

8. DISCONNECT LEAD 14B (1) FROM START SWITCH LEAD 14 (2).



9. DISCONNECT LEAD 74 (3) AND LEAD 14 (2) FROM START SWITCH (4).
10. DISCONNECT LEAD 514/515 (8), LEAD 520 (9), AND LEAD 19 (10) FROM INFRARED BLACKOUT SWITCH (11).
11. DISCONNECT BATTERY/GENERATOR HARNESS LEAD 27E (12) FROM BATTERY/GENERATOR GAUGE (13).
12. DISCONNECT BATTERY/GENERATOR HARNESS LEAD 10 (14) AND SPECIAL PURPOSE HARNESS LEAD 27 (15) FROM CIRCUIT BREAKER (16).

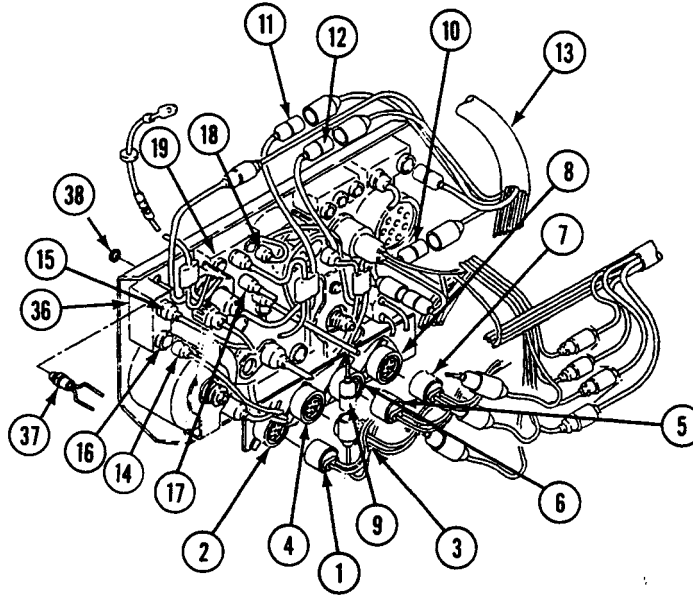
13. DISCONNECT LEAD 31 (17) AND LEAD 30 (18) FROM FUEL TANK SWITCH (19).



14. DISCONNECT LEAD 406 (20) AND SPECIAL PURPOSE HARNESS LEAD 27C (21) FROM AIR BOX HEATER SWITCH (22).
15. DISCONNECT LEAD 25A (23), LEAD 27F (24), LEAD 27P (25), AND LEAD 38 (26) FROM SPECIAL PURPOSE CABLE (27).
16. DISCONNECT LEAD 323/27R (28) FROM TRANSMISSION OIL CLOGGED INDICATOR (29).
17. DISCONNECT LEAD 367/27L (30) FROM TRANSMISSION LOW OIL PRESSURE INDICATOR (31).
18. DISCONNECT LEAD 370/27M (32) FROM PARKING BRAKE INDICATOR (33).
19. DISCONNECT LEAD 519/519A (34) FROM HEADLIGHT HI BEAM INDICATOR (35).
20. DISCONNECT SPECIAL PURPOSE HARNESS LEAD 27A (36) AND LEAD 28 (37) FROM FUEL GAUGE (38).

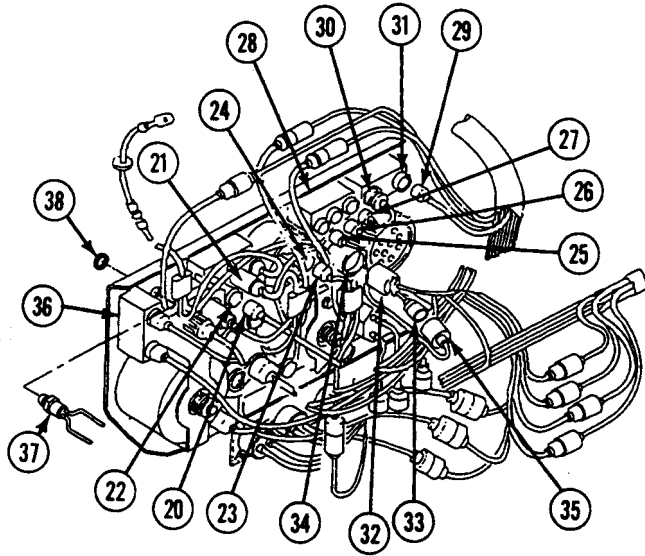
## INSTALLATION

1. CONNECT LEAD 519/519A (1) TO HEADLIGHT HI BEAM INDICATOR (2).

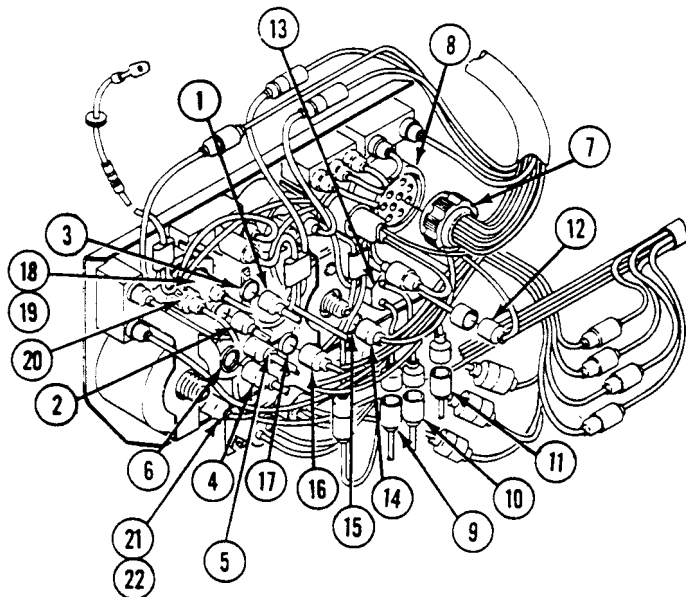


2. CONNECT LEAD 370/27M (3) TO PARKING BRAKE INDICATOR (4).
3. CONNECT LEAD 367/27L (5) TO TRANSMISSION LOW OIL PRESSURE INDICATOR (6).
4. CONNECT LEAD 323/27R (7) TO TRANSMISSION OIL CLOGGED INDICATOR (8).
5. CONNECT LEAD 38 (9), LEAD 27P (10), LEAD 25A (11), AND LEAD 27F (12) TO SPECIAL PURPOSE CABLE (13).
6. CONNECT LEAD 406 (14) AND SPECIAL PURPOSE HARNESS LEAD 27C (15) TO AIR BOX HEATER SWITCH (16).
7. CONNECT LEAD 31 (17) AND LEAD 30 (18) TO FUEL TANK SWITCH (19).

8. CONNECT BATTERY/GENERATOR HARNESS LEAD 10 (20) AND SPECIAL PURPOSE HARNESS LEAD 27 (21) TO CIRCUIT BREAKER (22).

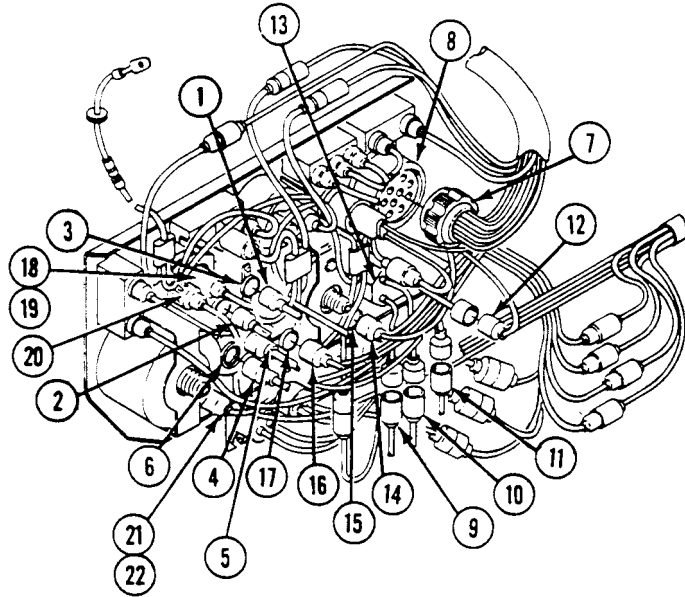


9. CONNECT BATTERY/GENERATOR HARNESS LEAD 27E (23) TO BATTERY/GENERATOR GAUGE (24).
10. CONNECT LEAD 514 (25), LEAD 520 (26), AND LEAD 19 (27) TO INFRARED BLACKOUT SWITCH (28).
11. CONNECT LEAD 74 (32) AND LEAD 14 (33) TO START SWITCH (34).
12. CONNECT LEAD 14B (35) TO START SWITCH LEAD 14 (33).
13. CONNECT TWO CIRCUIT 40 LEADS (1) AND (2) TO LAMP ASSEMBLY (3).



14. CONNECT LEAD 33 (4) AND SPECIAL PURPOSE HARNESS LEAD 27B (5) TO ENGINE COOLANT TEMPERATURE GAUGE (6).

15. CONNECT FRONT MAIN HARNESS CONNECTOR (7) TO MAIN LIGHT SWITCH (8).



16. CONNECT LEAD 450B (9), LEAD 450 (10), LEAD 451A (11), AND LEAD 452A (12) TO BILGE PUMP SWITCH (13).
17. CONNECT LEAD 452B (14) TO BILGE FRONT PUMP ON INDICATOR (15).
18. CONNECT LEAD 451B (16) TO REAR BILGE PUMP ON INDICATOR (17).
19. CONNECT SPECIAL PURPOSE HARNESS LEAD 27A (18) AND LEAD 28 (19) TO FUEL GAUGE (20).
20. CONNECT SPECIAL PURPOSE HARNESS LEAD 459 (21) TO MASTER SWITCH INDICATOR (22).
21. INSTALL TWO GROUND LEADS, MOUNTS, AND INSTRUMENT PANEL ON STRUTS (WP 0211 00).
22. INSTALL TACHOMETER AND SPEEDOMETER CABLES ON INSTRUMENT PANEL GAUGES (WP 0195 00).
23. CONNECT BATTERY GROUND STRAP (WP 0237 00).

**END OF TASK**





**REPLACE INSTRUMENT PANEL GAUGES**

**0221 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0221 00-1).  
 Installation (page 0221 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Personnel Required

Unit Mechanic 63T10

Vehicle blocked (TM 9-2350-366-10-1)

Battery ground strap disconnected (WP 0237 00)

**REMOVAL**

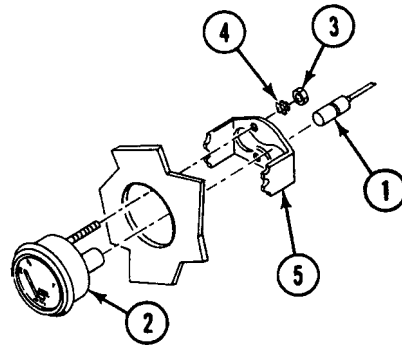
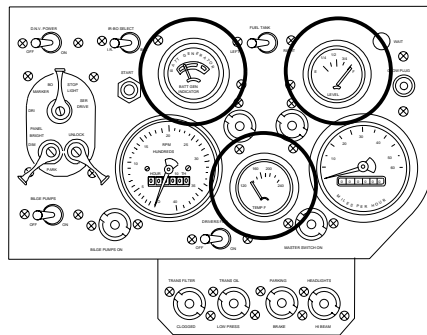
**NOTE**

There are three gauges on the instrument panel. Except for the number of leads, all gauges are replaced the same way.

**NOTE**

Do not disconnect more than one gauge at a time. Mark each lead to make sure you reconnect to correct contacts. See wiring diagrams at the end of this manual.

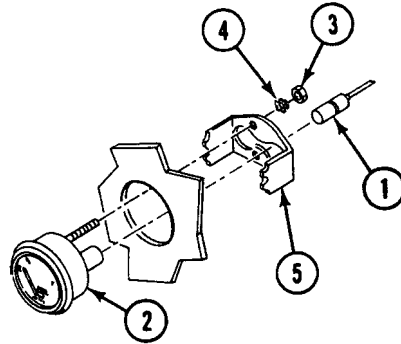
1. DISCONNECT CIRCUIT LEADS (1) FROM REAR OF GAUGE (2).



2. REMOVE TWO NUTS (3), LOCKWASHERS (4), AND BRACKET (5) FROM REAR OF GAUGE (2).
3. REMOVE GAUGE (2) FROM FRONT OF INSTRUMENT PANEL.

**INSTALLATION**

1. INSTALL GAUGE (2) IN FRONT OF INSTRUMENT PANEL.

**NOTE**

**Check front of instrument panel to make sure gauge is aligned before tightening nuts.**

2. INSTALL BRACKET (5) ON REAR OF GAUGE (2) WITH TWO LOCKWASHERS (4) AND NUTS (3).

**CAUTION**

**Make sure circuit leads are connected to correct gauges. See wiring diagrams at the end of this manual.**

3. CONNECT CIRCUIT LEADS (1) TO REAR OF GAUGE (2).
4. CONNECT BATTERY GROUND STRAP (WP 0237 00).
5. TURN MASTER SWITCH TO ON. See TM 9-2350-366-10-1.
6. CHECK FUEL GAUGE AND BATTERY GENERATOR GAUGE FOR PROPER OPERATION. See TM 9-2350-366-10-1.
7. START ENGINE TO CHECK OPERATION OF COOLANT TEMPERATURE GAUGE. See TM 9-2350-366-10-1.
8. STOP ENGINE. See TM 9-2350-366-10-1.

**END OF TASK**

CHAPTER 16

UNIT MAINTENANCE INSTRUCTIONS  
FOR VEHICLE LIGHTS

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**WORK PACKAGE INDEX**

---

| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| REPAIR DOME LIGHT.....                                  | .0222 00            |
| REPLACE DOME LIGHT LENS.....                            | .0223 00            |
| REPLACE REAR DOME LIGHT SWITCH AND CIRCUIT BREAKER..... | .0224 00            |
| REPLACE DOMELIGHT INTERLOCK SWITCH.....                 | .0225 00            |
| REPAIR BLACKOUT MARKER LIGHT.....                       | .0226 00            |
| REPLACE BLACKOUT MARKER LIGHT.....                      | .0227 00            |
| REPAIR BLACKOUT HEADLIGHT.....                          | .0228 00            |
| REPLACE BLACKOUT HEADLIGHT.....                         | .0229 00            |
| REPAIR SERVICE HEADLIGHTS.....                          | .0230 00            |
| REPLACE SERVICE HEADLIGHTS.....                         | .0231 00            |
| REPLACE STOP LIGHT-TAIL LIGHT AND GUARDS.....           | .0232 00            |
| REPAIR LEFT STOP LIGHT-TAIL LIGHT.....                  | .0233 00            |
| REPAIR RIGHT STOP LIGHT-TAIL LIGHT.....                 | .0234 00            |
| REPLACE HEADLIGHT HIGH BEAM SELECTOR SWITCH.....        | .0235 00            |
| REPLACE DOME LIGHT.....                                 | .0236 00            |



**REPAIR DOME LIGHT**

**0222 00**

**THIS WORK PACKAGE COVERS:**

Disassembly (page 0222 00-1).  
 Assembly (page 0222 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

References

TM 9-25350-366-10-1

Materials/Parts

Seal  
 Bulb  
 Bulb

Equipment Condition

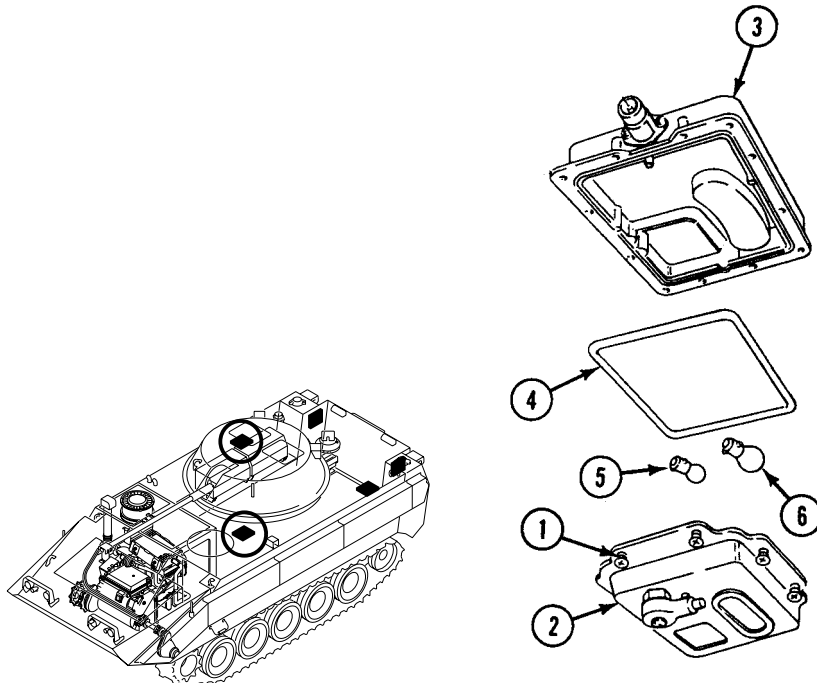
Engine stopped (TM 9-25350-366-10-1)  
 Vehicle blocked (TM 9-25350-366-10-1)  
 Dome light removed (WP 0236 00)

**DISASSEMBLY**

**NOTE**

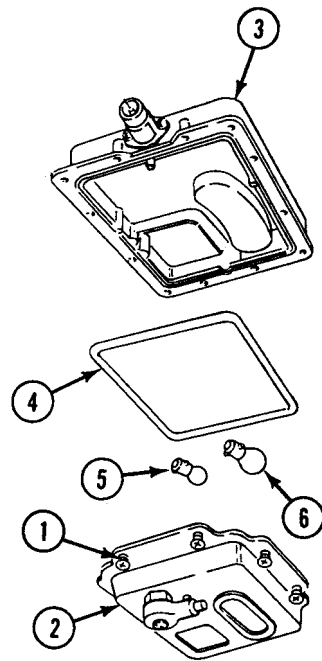
**If dome light door mounting screw separates from door, replace retaining clip.**

1. REMOVE EIGHT SCREWS (1) AND DOOR (2) FROM DOME LIGHT BODY (3).
2. REMOVE SEAL (4) FROM DOOR (2).
3. PUSH IN ON LIGHT BULB (5) AND BLACKOUT BULB (6), AND TURN TO THE LEFT. REMOVE AND DISCARD TWO BULBS.



**ASSEMBLY**

1. INSTALL NEW BLACKOUT BULB (6) AND NEW LIGHT BULB (5) IN DOOR (2). PUSH IN AND TURN BULBS TO THE RIGHT TO SECURE.
2. REMOVE NEW SEAL (4) ON DOOR (2).
3. INSTALL DOOR (2) ON DOME LIGHT BODY (3) WITH EIGHT SCREWS (1).



4. INSTALL DOME LIGHT (WP 0236 00).

**END OF TASK**

---

## REPLACE DOME LIGHT LENS

---

0223 00

### THIS WORK PACKAGE COVERS:

Removal (page 0223 00-1).  
Installation (page 0223 00-3).

---

### INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Personnel Required

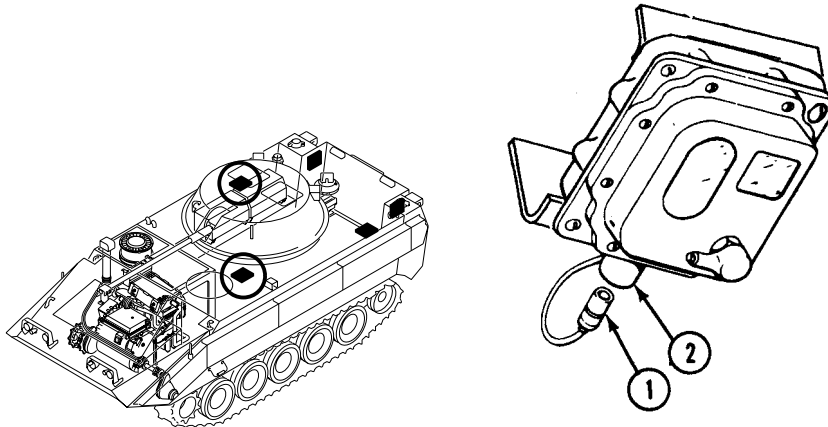
Unit Mechanic 63T10

Vehicle blocked (TM 9-2350-366-10-1)

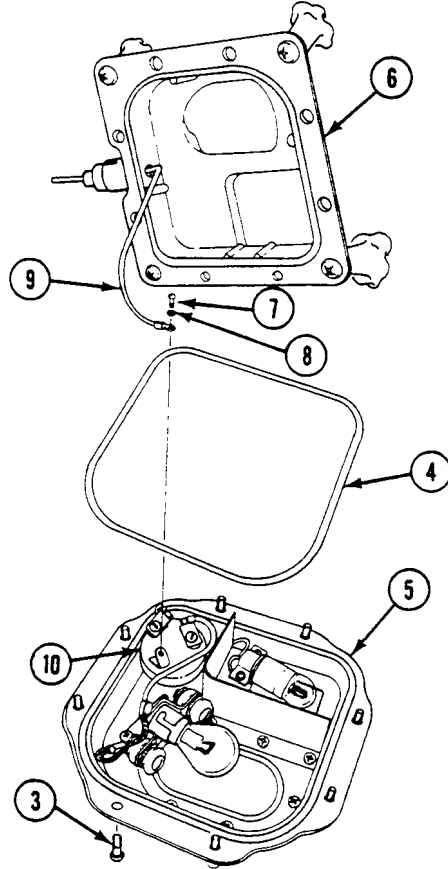
---

### REMOVAL

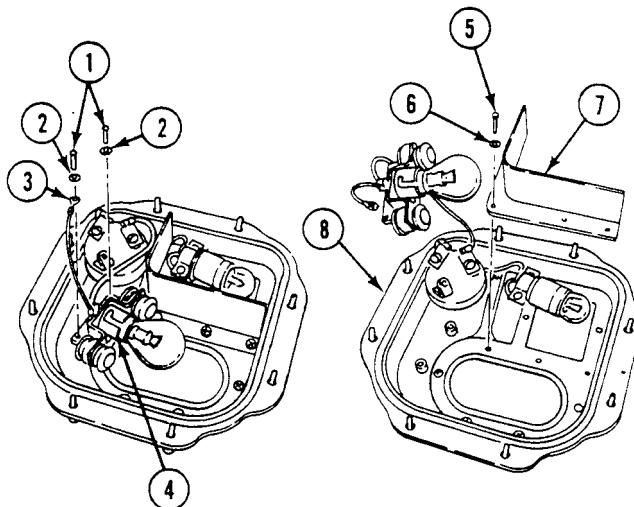
1. DISCONNECT LEAD (1) FROM DOME LIGHT (2).



2. REMOVE EIGHT SCREWS (3), SEAL (4), AND DOOR (5) FROM DOME LIGHT BODY (6).
3. REMOVE SCREW (7), WASHER (8), AND LEAD (9) FROM SWITCH (10).



4. REMOVE TWO SCREWS (1), LOCKWASHERS (2), AND GROUND LEAD (3) FROM LAMPHOLDER (4).
5. REMOVE FOUR SCREWS (5), LOCKWASHERS (6), AND PARTITION (7) FROM DOOR (8).





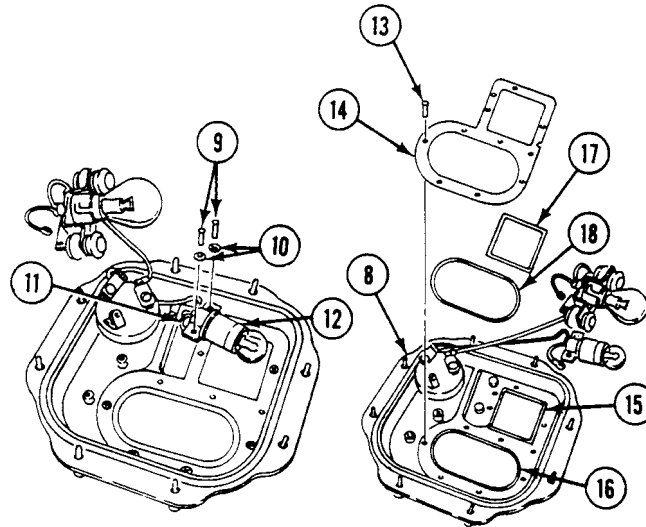
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**REPLACE DOME LIGHT LENS — Continued**

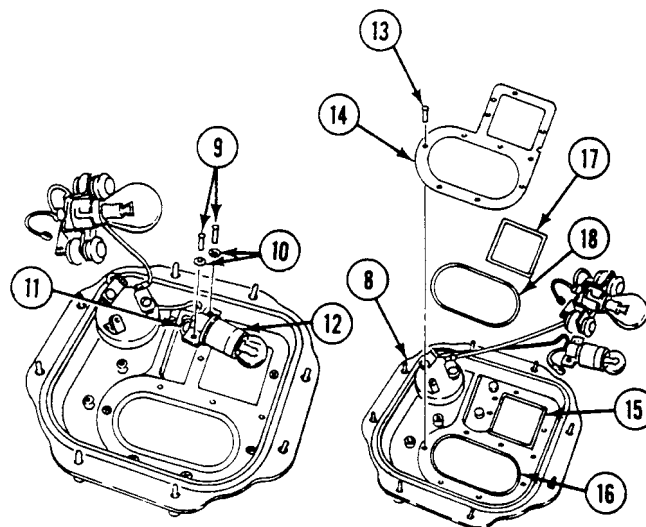
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0223 00

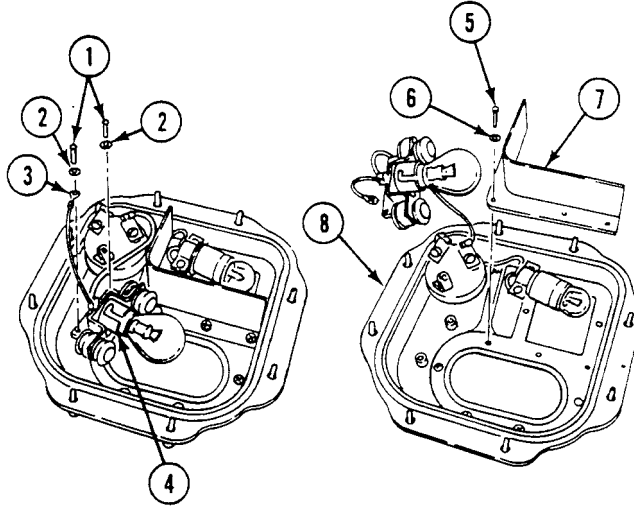
6. REMOVE TWO SCREWS (9), WASHERS (10), AND GROUND LEAD (11) FROM LAMPHOLDER (12).
7. REMOVE SEVEN SCREWS (13) AND LENS RETAINING PLATE (14) FROM DOOR (8).
8. REMOVE TWO LENSES (15) AND (16) AND GASKETS (17) AND (18) FROM DOOR (8).

**INSTALLATION**

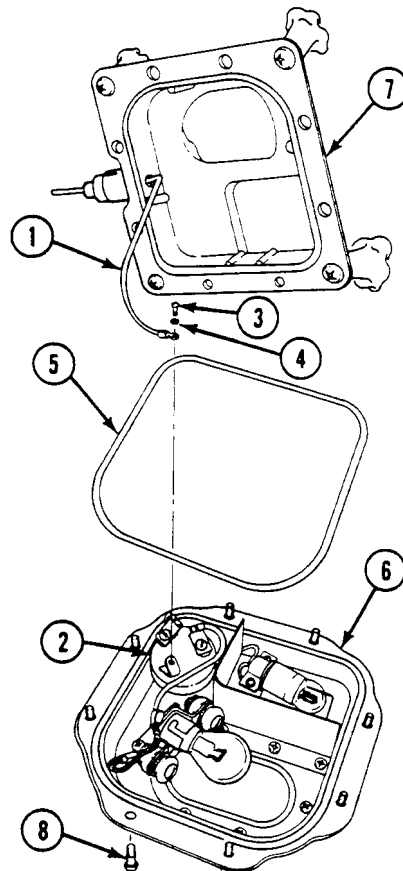
1. INSTALL TWO LENSES (15) AND (16) AND GASKETS (17) AND (18) ON DOOR (8).
2. INSTALL LENS RETAINING PLATE (14) ON DOOR (8) WITH SEVEN SCREWS (13).
3. INSTALL GROUND LEAD (11) ON LAMPHOLDER (12) WITH TWO WASHERS (10) AND SCREWS (9).



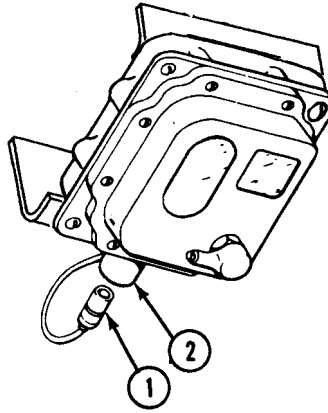
4. INSTALL PARTITION (7) ON DOOR (8) WITH FOUR SCREWS (5) AND LOCKWASHERS (6).
5. INSTALL GROUND LEAD (3) ON LAMPHOLDER (4) WITH TWO SCREWS (1) AND LOCKWASHERS (2).



6. INSTALL LEAD (1) ON SWITCH (2) WITH SCREW (3) AND WASHER (4).
7. INSTALL SEAL (5) ON DOOR (6). INSTALL DOOR ON BODY (7) WITH EIGHT SCREWS (8).



8. CONNECT LEAD (1) TO DOME LIGHT (2).



9. Turn MASTER SWITCH ON. See TM 9-2350-366-10-1.  
10. Turn dome light switch on and off to check that light works. See TM 9-2350-366-10-1.  
11. Turn MASTER SWITCH OFF. See TM 9-2350-366-10-1.

**END OF TASK**



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**REPLACE REAR DOME LIGHT SWITCH AND CIRCUIT BREAKER**

---

**0224 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0224 00-2).  
 Installation (page 0224 00-2).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Torque wrench, 3/8 inch drive, 0–150 in-lb  
 (WP 0397 00, Item 77)

References

TM 9-2350-366-10-1

Materials/Parts

Locknut

Equipment Condition

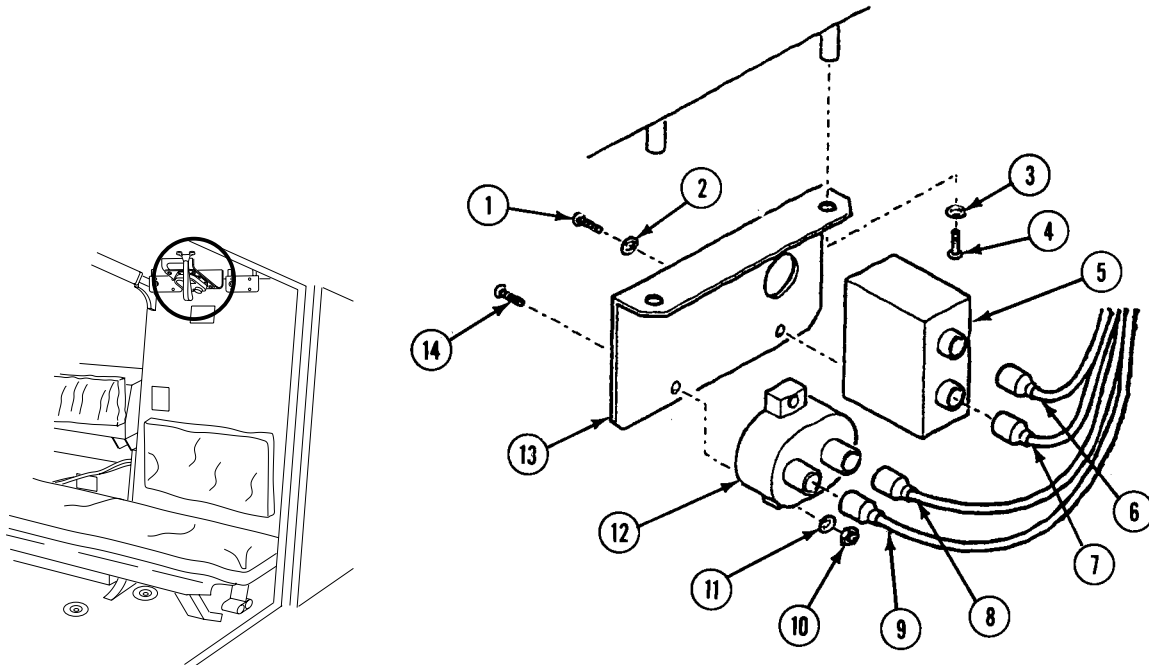
Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Battery ground lead disconnected (WP 0237 00)

---

**REMOVAL****NOTE**

Ensure all cable connectors have legible marking bands for assembly.

1. UNPLUG CONNECTORS 38A (6) AND 38B (7) FROM REAR DOME LIGHT SWITCH (5).
2. UNPLUG CONNECTORS 38B (8) AND 38 (9) FROM CIRCUIT BREAKER (12).
3. REMOVE TWO SCREWS (1), TWO WASHERS (2), AND SWITCH (5) FROM PANEL (13).
4. REMOVE TWO LOCKNUTS (10), WASHERS (11), SCREWS (14), FROM CIRCUIT BREAKER (12). REMOVE CIRCUIT BREAKER FROM SWITCH PANEL (13).
5. REMOVE TWO SCREWS (14), WASHERS (3) AND SWITCH PANEL (13) FROM HULL.

**INSTALLATION**

1. INSTALL SWITCH PANEL (13), WITH TWO WASHERS (3) AND SCREWS (4) ON HULL.
2. TORQUE TWO SCREWS (4) TO 90 IN-LB. USE TORQUE WRENCH.
3. INSTALL CIRCUIT BREAKER (12) ON SWITCH PANEL (13) WITH TWO SCREWS (14), WASHERS (11) AND NEW LOCKNUTS (10).
4. INSTALL REAR DOME LIGHT SWITCH (5) ON SWITCH PANEL (13) WITH TWO WASHERS (2) AND TWO SCREWS (1).
5. PLUG CONNECTORS 38A (6) AND 38B (7) INTO CORRESPONDING CONNECTORS OF REAR DOME LIGHT SWITCH (5).
6. PLUG CONNECTORS 38B (8) AND 38 (9) INTO CORRESPONDING CONNECTORS OF CIRCUIT BREAKER (12).

**END OF TASK**

**REPLACE DOMELIGHT INTERLOCK SWITCH**

**0225 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0225 00-1).  
 Installation (page 0225 00-2).  
 Adjustment (page 0225 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Personnel Required

Unit Mechanic 63T10

Vehicle blocked (TM 9-2350-366-10-1)

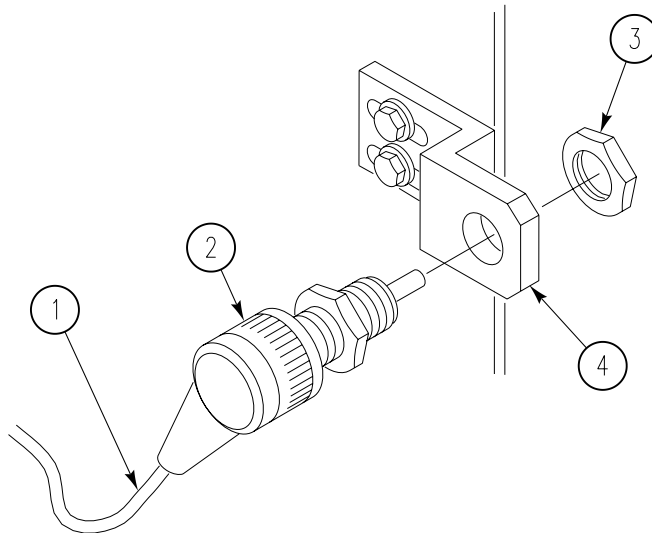
Battery ground lead disconnected (WP 0237 00)

**REMOVAL**

**NOTE**

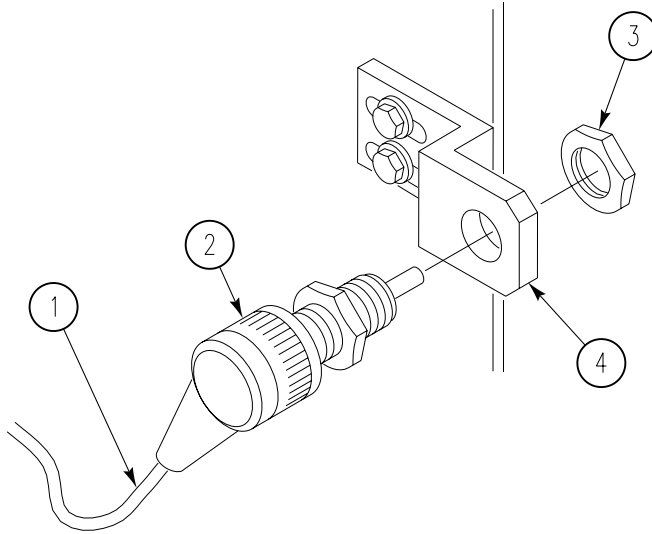
**Ensure all cable connectors have legible marking bands for assembly.**

1. UNPLUG CONNECTOR (1) FROM DOMELIGHT INTERLOCK SWITCH (2).
2. REMOVE NUT (3) AND SWITCH (2) FROM BRACKET (4).

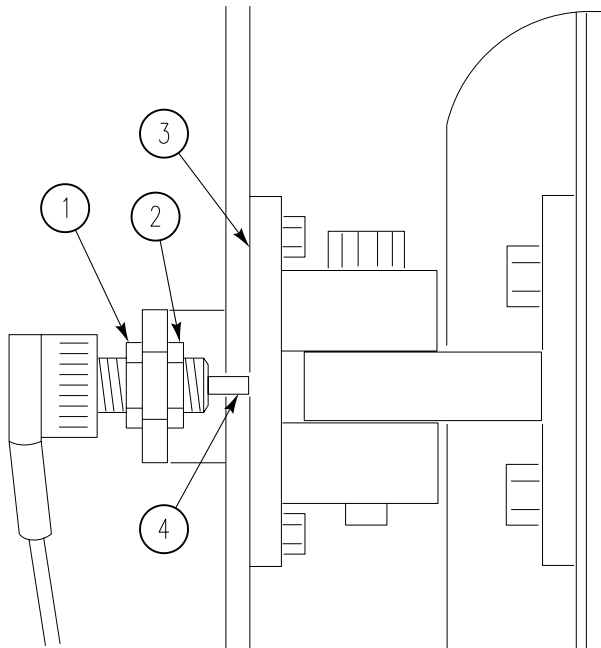


**INSTALLATION**

1. INSTALL DOMELIGHT INTERLOCK SWITCH (2) AND NUT (3) ON BRACKET (4). DO NOT TIGHTEN NUT.
2. PLUG CONNECTOR (1) INTO CONNECTOR ON DOMELIGHT INTERLOCK SWITCH (2).

**ADJUSTMENT**

1. ALIGN SWITCH STRIKER (4) WITH SURFACE OF CLOSED DOOR (3) BY TURNING NUTS (1) AND (2).
2. WHEN SWITCH STRIKER (4) IS ALIGNED, TIGHTEN NUTS (1) AND (2).

**END OF TASK**



**REPAIR BLACKOUT MARKER LIGHT**

**0226 00**

**THIS WORK PACKAGE COVERS:**

- Disassembly (page 0226 00-1).
- Inspection-Acceptance and Rejection Criteria (page 0226 00-1).
- Assembly (page 0226 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Materials/Parts

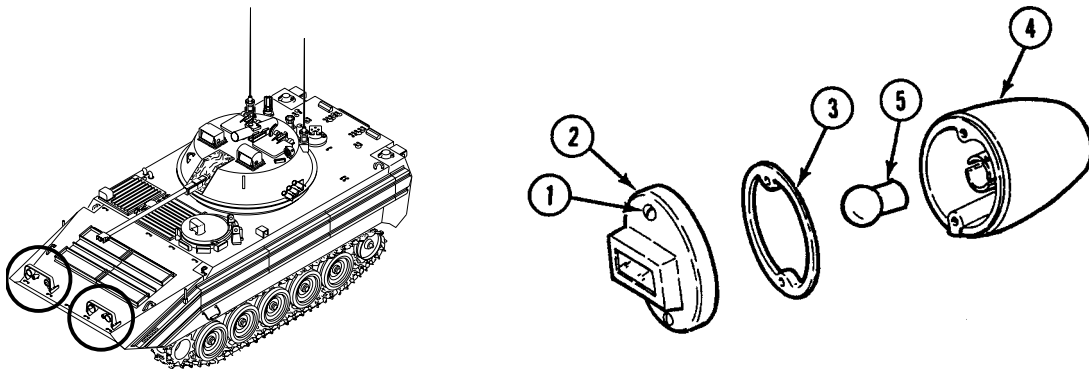
Gasket

Personnel Required

Unit Mechanic 63T10

**DISASSEMBLY**

1. LOOSEN TWO SCREWS (1) AND REMOVE DOOR (2) AND GASKET (3) FROM LIGHT BODY (4). DISCARD GASKET.
2. PUSH IN ON BULB (5) AND TURN TO THE LEFT. REMOVE BULB FROM BODY (4).

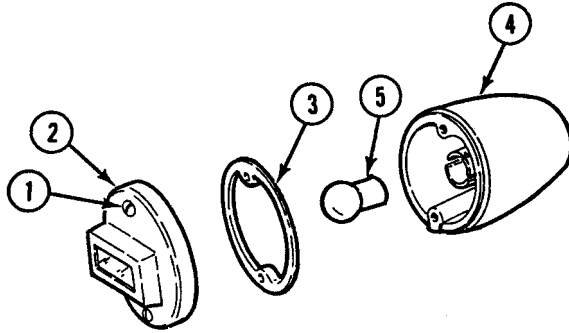


**INSPECTION-ACCEPTANCE AND REJECTION CRITERIA**

1. CHECK LENS IN DOOR. REPLACE BLACKOUT MARKER DOOR ASSEMBLY IF LENS IS CRACKED OR CHIPPED.
2. CHECK BULB. See TROUBLESHOOTING (WP 0027 00). REPLACE BAD BULB.
3. CHECK LIGHT BODY. REPLACE BLACKOUT MARKER LIGHT IF ANY PART IS MISSING OR DAMAGED (WP 0227 00).

**ASSEMBLY**

1. PLACE BULB (5) IN LIGHT BODY (4). PUSH IN ON BULB AND TURN TO THE RIGHT TO SECURE.
2. INSTALL NEW GASKET (3), DOOR (2), AND TWO SCREWS (1) ON LIGHT BODY (4).

**END OF TASK**

**REPLACE BLACKOUT MARKER LIGHT**

**0227 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0227 00-1).
- Installation (page 0227 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Materials/Parts

Lockwasher

Vehicle blocked (TM 9-2350-366-10-1)

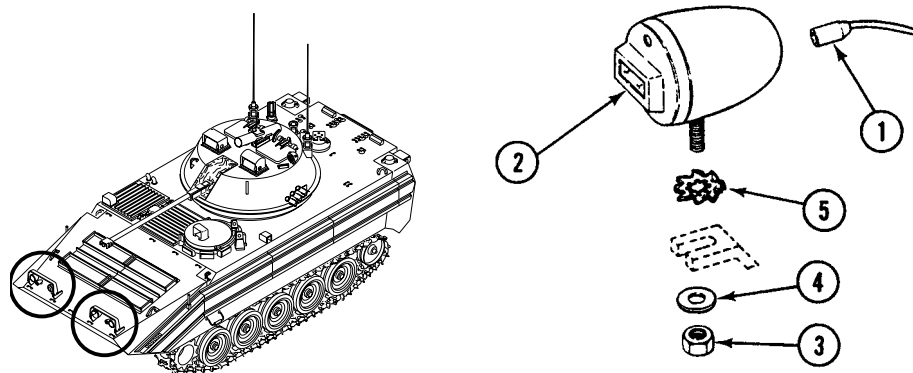
Personnel Required

Unit Mechanic 63T10

Battery ground strap disconnected (WP 0237 00)

**REMOVAL**

1. DISCONNECT CIRCUIT 20 LEAD (1) FROM REAR OF BLACKOUT MARKER LIGHT (2).
2. REMOVE NUT (3), WASHER (4), LOCKWASHER (5), AND MARKER LIGHT (2) FROM HULL BRACKET. DISCARD LOCKWASHER.



**INSTALLATION**

1. INSTALL BLACKOUT MARKER LIGHT (2), NEW LOCKWASHER (5), WASHER (4), AND NUT (3) ON HULL BRACKET.
2. CONNECT CIRCUIT 20 LEAD (1) TO REAR OF MARKER LIGHT (2).
3. CONNECT BATTERY GROUND STRAP (WP 0237 00).
4. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1.
5. TURN BLACKOUT MARKER LIGHT SWITCH ON TO CHECK THAT LIGHT WORKS RIGHT. See TM 9-2350-366-10-1.
6. TURN ALL SWITCHES OFF. See TM 9-2350-366-10-1.

**END OF TASK**



**REPAIR BLACKOUT HEADLIGHT**

**0228 00**

**THIS WORK PACKAGE COVERS:**

- Disassembly (page 0228 00-1).
- Inspection-Acceptance and Rejection Criteria (page 0228 00-1).
- Assembly (page 0228 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Materials/Parts

- Lamp unit
- Retaining clip (3)

Personnel Required

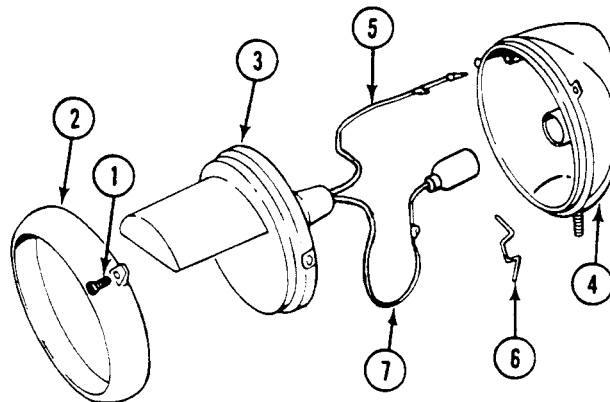
Unit Mechanic 63T10

**DISASSEMBLY**

**NOTE**

**Check door and body. Replace blackout headlight if any part is missing or damaged (WP 0356 00).**

1. LOOSEN THREE SCREWS (1). PULL DOOR (2) WITH LAMP UNIT (3) AWAY FROM LIGHT BODY (4).
2. DISCONNECT GROUND LEAD (5) AND POSITIVE LEAD (7) FROM LIGHT BODY (4).
3. REMOVE THREE RETAINING CLIPS (6) AND LAMP UNIT (3) FROM DOOR (2). DISCARD LAMP UNIT AND CLIPS.

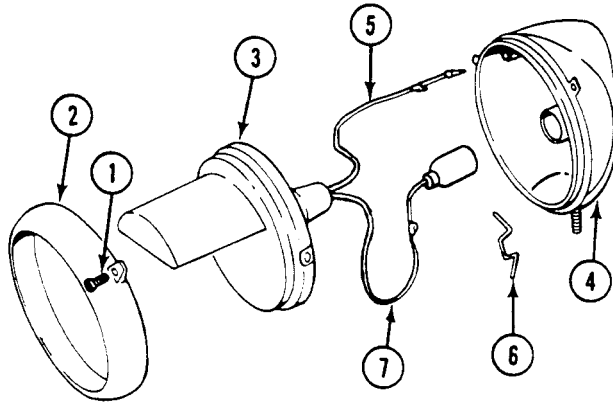


**INSPECTION-ACCEPTANCE AND REJECTION CRITERIA**

1. CHECK DOOR AND LIGHT BODY. REPLACE BLACKOUT HEADLIGHT IF ANY PART IS MISSING OR DAMAGED (WP 0229 00).

**ASSEMBLY**

1. INSTALL NEW LAMP UNIT (3) IN DOOR (2) WITH THREE NEW RETAINING CLIPS (6).
2. CONNECT POSITIVE LEAD (7) AND GROUND LEAD (5) TO LIGHT BODY (4).
3. INSTALL DOOR (2) WITH LAMP UNIT (3) AND THREE SCREWS (1) ON LIGHT BODY (4).

**END OF TASK**

**REPLACE BLACKOUT HEADLIGHT**

**0229 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0229 00-1).
- Inspection-Acceptance and Rejection Criteria (page 0229 00-1).
- Installation (page 0229 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Materials/Parts

Lockwasher

Vehicle blocked (TM 9-2350-366-10-1)

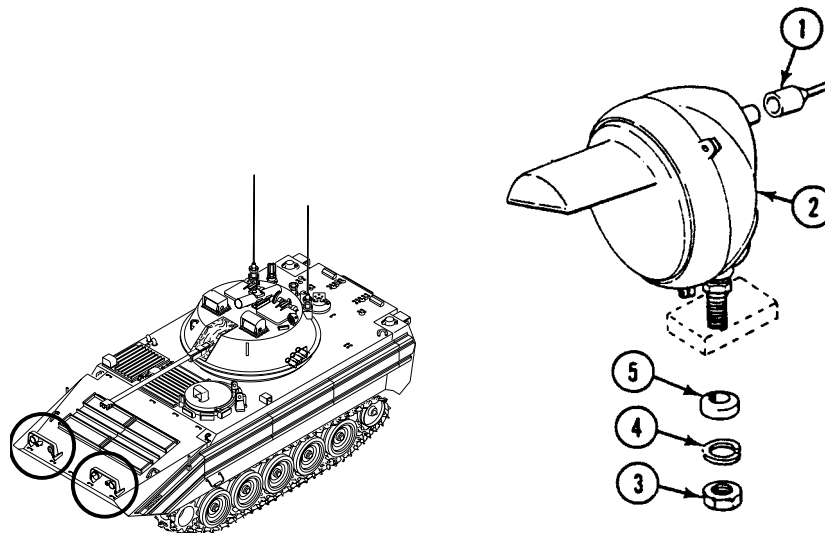
Personnel Required

Unit Mechanic 63T10

Battery ground strap disconnected (WP 0237 00)

**REMOVAL**

1. DISCONNECT CIRCUIT 19 LEAD (1) FROM REAR OF BLACKOUT HEADLIGHT (2).
2. REMOVE NUT (3), LOCKWASHER (4), FINISHING WASHER (5), AND BLACKOUT HEADLIGHT (2) FROM HULL BRACKET. DISCARD LOCKWASHER.

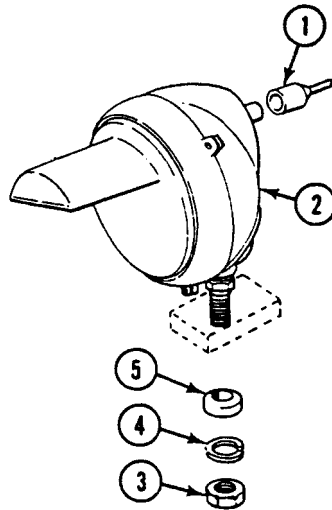


**INSPECTION-ACCEPTANCE AND REJECTION CRITERIA**

1. CHECK LEAD AND CONNECTOR. REPLACE FRAYED, BROKEN, OR CRACKED PARTS (WP 0189 00).

**INSTALLATION**

1. INSTALL BLACKOUT HEADLIGHT (2), FINISHING WASHER (5), NEW LOCKWASHER (4), AND NUT (3) ON HULL BRACKET.
2. CONNECT CIRCUIT 19 LEAD (1) TO REAR OF BLACKOUT HEADLIGHT (2).



3. CONNECT BATTERY GROUND STRAP (WP 0237 00).
4. TURN MASTER SWITCH TO ON. See TM 9-2350-366-10-1.
5. TURN BLACKOUT HEADLIGHT SWITCH ON TO CHECK THAT HEADLIGHT WORKS RIGHT. See TM 9-2350-366-10-1.
6. TURN ALL SWITCHES TO OFF. See TM 9-2350-366-10-1.

**END OF TASK**



**REPAIR SERVICE HEADLIGHTS**

**0230 00**

**THIS WORK PACKAGE COVERS:**

- Disassembly (page 0230 00-1).
- Inspection-Acceptance and Rejection Criteria (page 0230 00-2).
- Assembly (page 0230 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

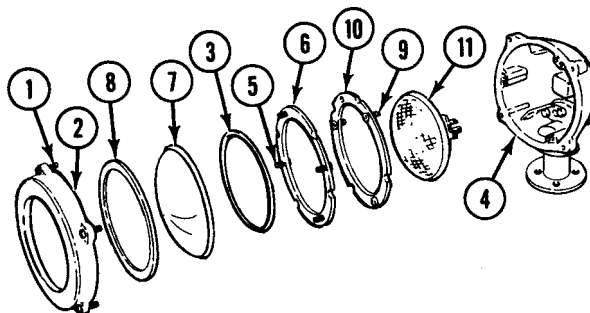
- Gasket
- Lockwasher
- Preformed packing
- Preformed packing

Equipment Condition

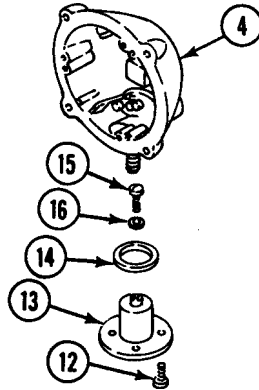
Service headlight removed (WP 0231 00)

**DISASSEMBLY**

1. LOOSEN FOUR SCREWS (1). REMOVE DOOR (2) AND PREFORMED PACKING (3) FROM HEADLIGHT BODY (4). DISCARD PACKING.
2. LOOSEN FOUR SCREWS (5). REMOVE RETAINER PLATE (6), LENS (7), AND GASKET (8) FROM DOOR (2). DISCARD GASKET.
3. LOOSEN THREE SCREWS (9). REMOVE RETAINER PLATE (10) FROM LIGHT BODY (4). PULL LAMP UNIT (11) FROM BODY. DISCONNECT LAMP UNIT FROM PLUG.
4. REMOVE FOUR SCREWS (12), MOUNT (13), AND PREFORMED PACKING (14) FROM BODY (4). DISCARD PREFORMED PACKING.



5. REMOVE SCREW (15) AND LOCKWASHER (16) FROM MOUNT (13). DISCARD LOCKWASHER.



**INSPECTION-ACCEPTANCE AND REJECTION CRITERIA**

1. CHECK LENS. REPLACE CRACKED OR CHIPPED LENS.
2. CHECK LAMP UNIT. See TROUBLESHOOTING WP 0025 00. REPLACE BAD LAMP UNIT.
3. CHECK DOOR, BODY, AND RETAINER PLATES. REPLACE HEADLIGHT IF ANY PART IS MISSING OR DAMAGED (WP 0231 00).

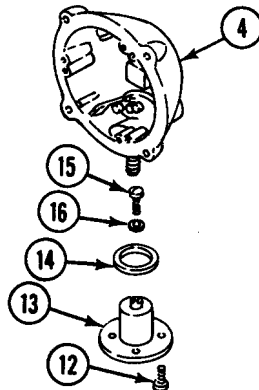
**ASSEMBLY**

1. INSTALL NEW LOCKWASHER (16) AND SCREW (15) IN MOUNT (13).

**CAUTION**

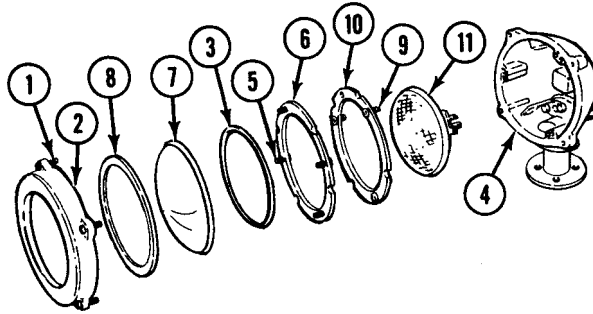
Use care when tightening four mount screws. Do not overtighten. Overtightening the screws will strip housing threads.

2. INSTALL NEW PREFORMED PACKING (14), MOUNT (13), AND FOUR SCREWS (12) IN BODY (4).



3. CONNECT LAMP UNIT (11) TO PLUG IN LAMP BODY (4) WITH WORD FOG AT BOTTOM.

4. INSTALL LAMP UNIT (11), RETAINER PLATE (10), AND THREE SCREWS (9) IN LIGHT BODY (4).
5. INSTALL NEW GASKET (8), LENS (7), RETAINER PLATE (6), AND FOUR SCREWS (5) IN DOOR (2).
6. INSTALL NEW PREFORMED PACKING (3), DOOR (2), AND FOUR SCREWS (1) ON LIGHT BODY (4).



7. INSTALL SERVICE HEADLIGHT (WP 0231 00).

**END OF TASK**



**REPLACE SERVICE HEADLIGHTS**

**0231 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0231 00-1).
- Installation (page 0231 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Materials/Parts

Lockwasher

Vehicle blocked (TM 9-2350-366-10-1)

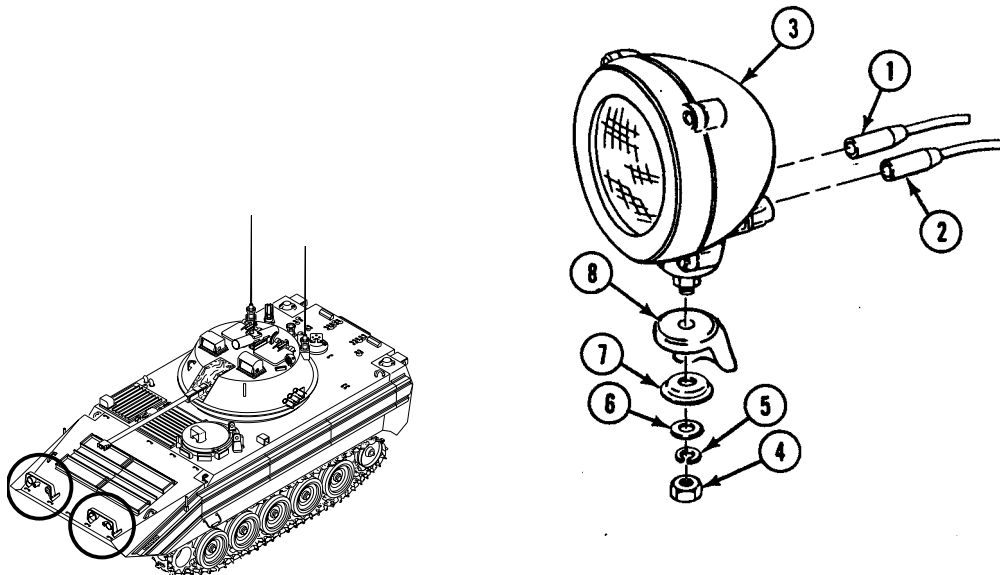
Personnel Required

Unit Mechanic 63T10

Battery ground strap disconnected (WP 0237 00)

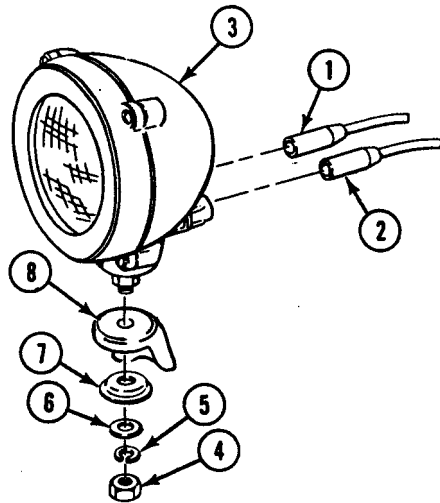
**REMOVAL**

1. DISCONNECT CIRCUIT 17 LEAD (1) AND CIRCUIT 18 LEAD (2) FROM REAR OF SERVICE HEADLIGHT (3).
2. REMOVE NUT (4), LOCKWASHER (5), SMALL BEVEL WASHER (6), LARGE BEVEL WASHER (7), AND HEADLIGHT (3) FROM HULL BRACKET (8). DISCARD LOCKWASHER.



**INSTALLATION**

1. PLACE HEADLIGHT (3) AND LARGE BEVEL WASHER (7) ON HULL BRACKET (8). SECURE WITH SMALL BEVEL WASHER (6), NEW LOCKWASHER (5), AND NUT (4).
2. CONNECT CIRCUIT 18 LEAD (2) AND CIRCUIT 17 LEAD (1) TO REAR OF SERVICE HEADLIGHT (3).



3. CONNECT BATTERY GROUND STRAP (WP 0237 00).
4. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1.
5. TURN ON SERVICE HEADLIGHTS TO CHECK THAT THEY WORK RIGHT. See TM 9-2350-366-10-1.
6. TURN ALL SWITCHES OFF. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE STOP LIGHT-TAIL LIGHT AND GUARDS**

**0232 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0232 00-1).  
 Installation (page 0232 00-4).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Materials/Parts

Gasket

Lockwasher (6)

Vehicle blocked (TM 9-2350-366-10-1)

Battery ground strap disconnected (WP 0237 00)

Personnel Required

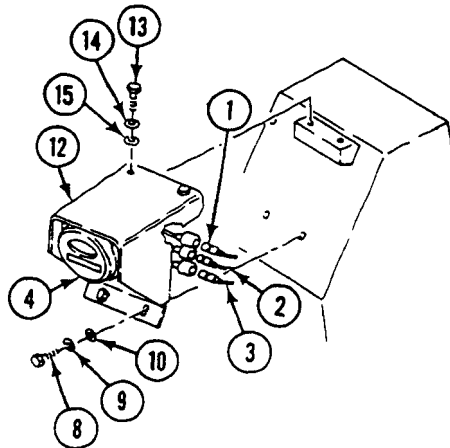
Unit Mechanic 63T10

**REMOVAL**

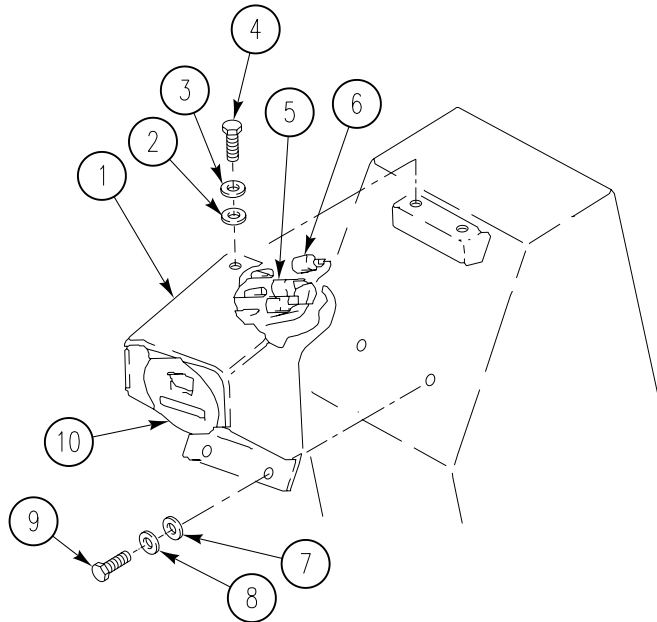
**NOTE**

**Except for number of circuit leads, left and right stop light-tail light and guards are replaced the same way. Tag leads so you will know how to install them.**

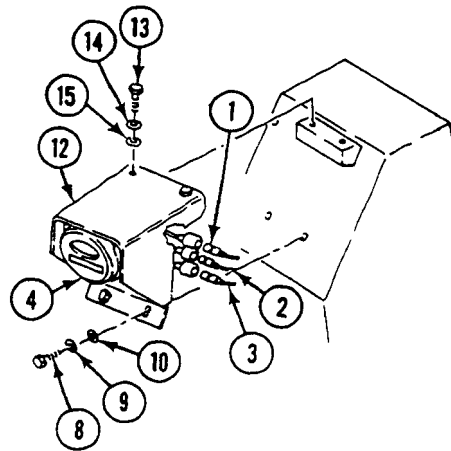
1. ON LEFT STOP LIGHT-TAIL LIGHT, DISCONNECT CIRCUIT 21 LEAD (1), CIRCUIT 22 LEAD (2), AND CIRCUIT 24 LEAD (3) FROM STOP LIGHT-TAIL LIGHT (4).



2. ON RIGHT STOP LIGHT-TAIL LIGHT, DISCONNECT CIRCUIT 24 LEAD (6) AND CIRCUIT 23 LEAD (5) FROM STOP LIGHT-TAIL LIGHT (10).



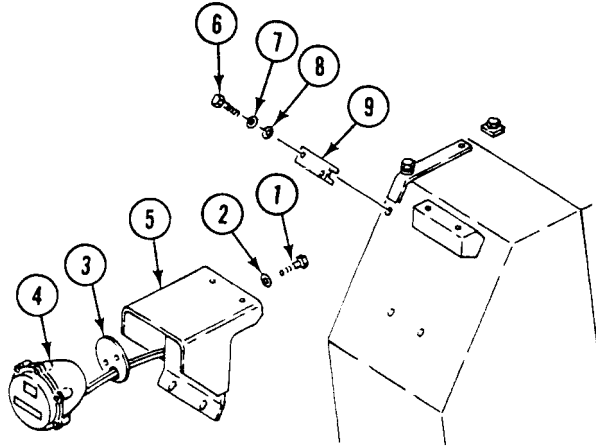
3. REMOVE TWO SCREWS (9), LOCKWASHERS (8), AND WASHERS (10) FROM GUARD (12) AND EXTERNAL FUEL TANK. DISCARD LOCKWASHERS.
4. REMOVE TWO SCREWS (13), LOCKWASHER (14), WASHERS (15), AND GUARD (12) WITH STOP LIGHT-TAIL LIGHT (4) OR (7) FROM EXTERNAL FUEL TANK. DISCARD LOCKWASHERS.



5. REMOVE TWO SCREWS (1), LOCKWASHERS (2), GASKET (3), AND STOP LIGHT-TAIL LIGHT (4) FROM GUARD (5). DISCARD LOCKWASHERS AND GASKET.



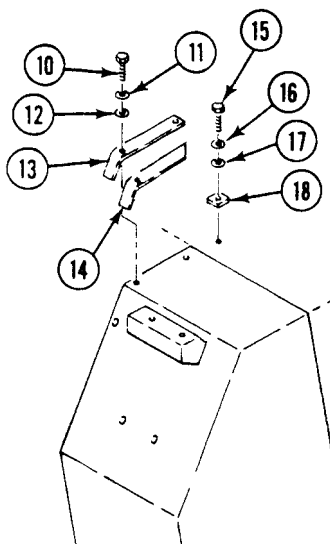
6. IF NEEDED, REMOVE TWO SCREWS (6), LOCKWASHERS (7), WASHERS (8), AND BRACKET (9) FROM FUEL TANK.



**NOTE**

**Step 7 is for the right fuel tank. Use same procedures for left fuel tank guards, if required.**

7. IF NEEDED, REMOVE TWO SCREWS (10), LOCKWASHERS (11), AND WASHERS (12), THAT SECURE HARNESS BRACKET (13), TO TOP OF FUEL TANK. REMOVE HARNESS BRACKET AND FUEL LINE GUARD. DISCARD LOCKWASHERS.
8. IF NEEDED, REMOVE SCREW (15), LOCKWASHER (16), WASHER (17), AND GUARD (18) FROM VEHICLE TOP DECK.



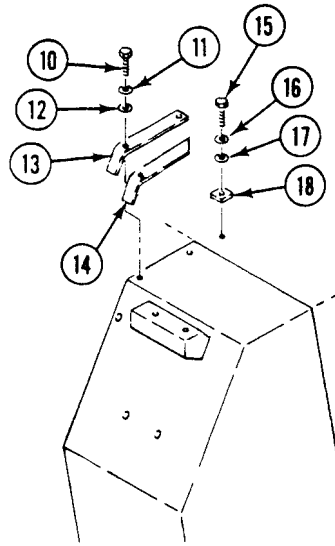
**INSTALLATION**

1. IF REMOVED, INSTALL GUARD (18) ON TOP DECK WITH SCREW (15), NEW LOCKWASHER (16), AND WASHER (17).

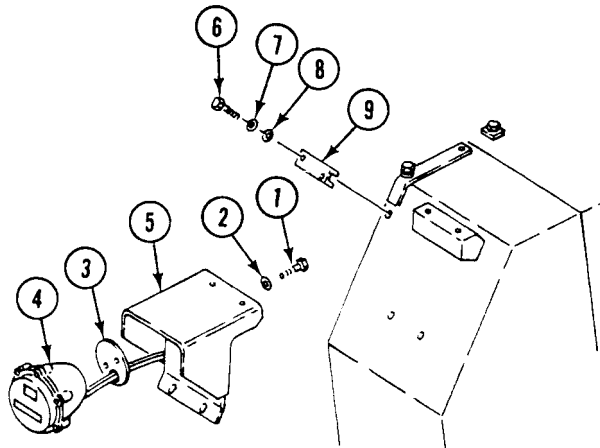
**NOTE**

**Step 2 is for the right fuel tank. Use same procedures for left fuel tank guards, if required.**

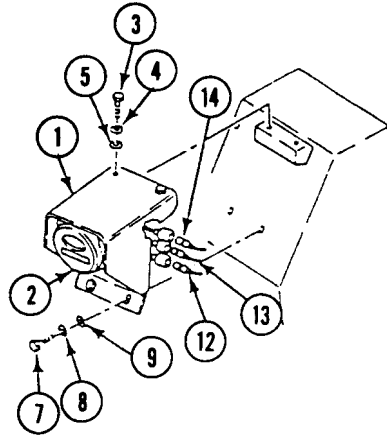
2. IF REMOVED, REPLACE HARNESS BRACKET (13) ON TOP OF FUEL TANK. INSTALL FUEL LINE GUARD (14) (M1059A3 ONLY) OVER FUEL LINES AND ALIGN HOLES OF GUARD AND BRACKET. SECURE WITH TWO SCREWS (10), NEW LOCKWASHERS (11), AND WASHERS (12).



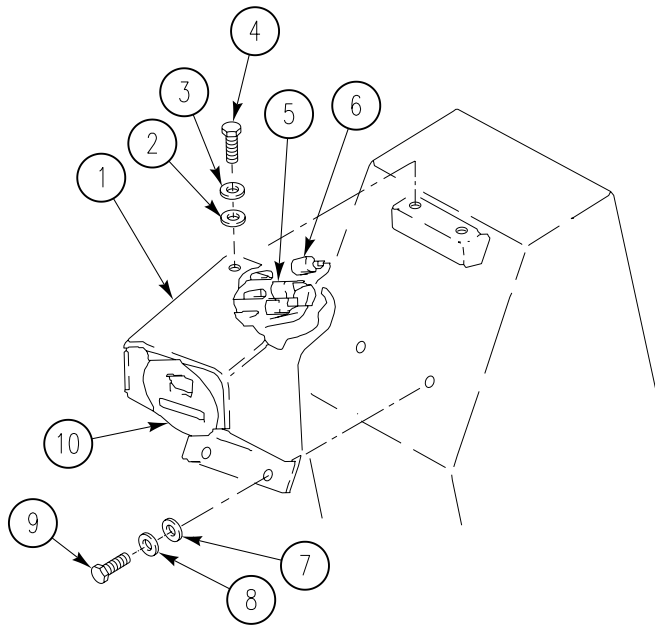
3. IF REMOVED, INSTALL BRACKET (9) ON FUEL TANK WITH TWO SCREWS (6), NEW LOCKWASHERS (7), AND WASHERS (8).
4. INSTALL NEW GASKET (3) AND STOP LIGHT-TAIL LIGHT (4) ON GUARD (5) WITH TWO SCREWS (1) AND TWO NEW LOCKWASHERS (2).



5. PLACE GUARD (1) WITH STOP LIGHT-TAIL LIGHT (2) ON FUEL TANK. SECURE WITH TWO SCREWS (3), NEW LOCKWASHERS (4), AND WASHERS (5).
6. INSTALL TWO SCREWS (7), NEW LOCKWASHERS (8) AND WASHERS (9) ON BOTTOM OF GUARD (1).



7. ON RIGHT STOP LIGHT-TAIL LIGHT, CONNECT CIRCUIT 23 LEAD (5) AND CIRCUIT 24 LEAD (6) TO STOP LIGHT-TAIL LIGHT (10).



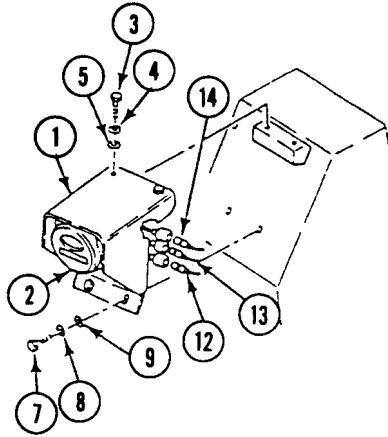
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**REPLACE STOP LIGHT-TAIL LIGHT AND GUARDS — Continued**

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**0232 00**

8. ON LEFT STOP LIGHT-TAIL LIGHT, CONNECT CIRCUIT 24 LEAD (12), CIRCUIT 22 LEAD (13) AND CIRCUIT 21 LEAD (14) TO STOP LIGHT-TAIL LIGHT (2).



9. CONNECT BATTERY GROUND STRAP (WP 0237 00).
10. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1.
11. OPERATE MAIN LIGHT SWITCHES TO VERIFY THAT LEFT AND RIGHT STOP LIGHT-TAIL LIGHT LIGHTS WORK PROPERLY. See TM 9-2350-366-10-1.
12. TURN ALL SWITCHES OFF. See TM 9-2350-366-10-1.

**END OF TASK**

**REPAIR LEFT STOP LIGHT-TAIL LIGHT**

**0233 00**

**THIS WORK PACKAGE COVERS:**

Disassembly (page 0233 00-1).

Assembly (page 0233 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

Preformed packing

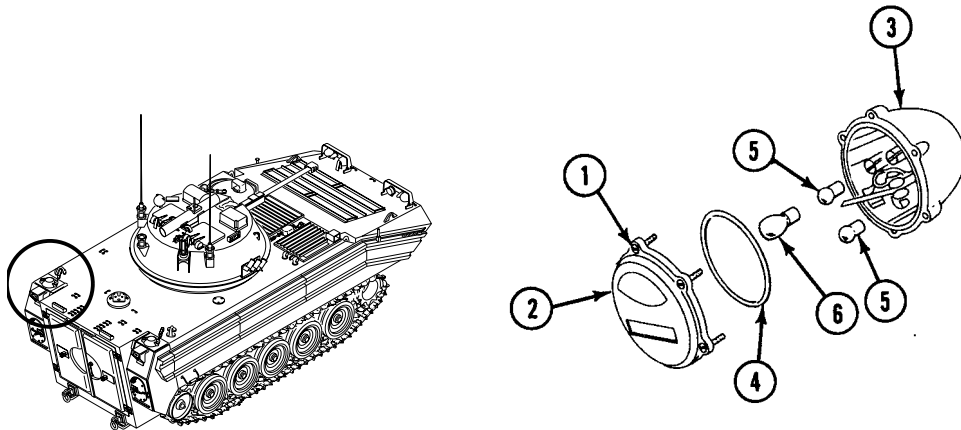
Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

**DISASSEMBLY**

1. LOOSEN SIX SCREWS (1) AND REMOVE DOOR (2) FROM LIGHT BODY (3).
2. REMOVE PREFORMED PACKING (4) FROM DOOR (2). DISCARD PREFORMED PACKING.
3. PUSH IN ON TWO SMALL BULBS (5) AND ONE LARGE BULB (6). TURN EACH BULB TO THE LEFT AND REMOVE FROM LIGHT BODY (3).



**ASSEMBLY**

1. INSTALL TWO SMALL BULBS (5) AND ONE LARGE BULB (6) IN LIGHT BODY (3). PUSH IN AND TURN TO THE RIGHT TO SECURE.
2. INSTALL NEW PREFORMED PACKING (4) ON DOOR (2).
3. INSTALL DOOR (2) ON LIGHT BODY (3) WITH SIX SCREWS (1).

**END OF TASK**



**REPAIR RIGHT STOP LIGHT-TAIL LIGHT**

**0234 00**

**THIS WORK PACKAGE COVERS:**

Disassembly (page 0234 00-1).  
 Assembly (page 0234 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Materials/Parts

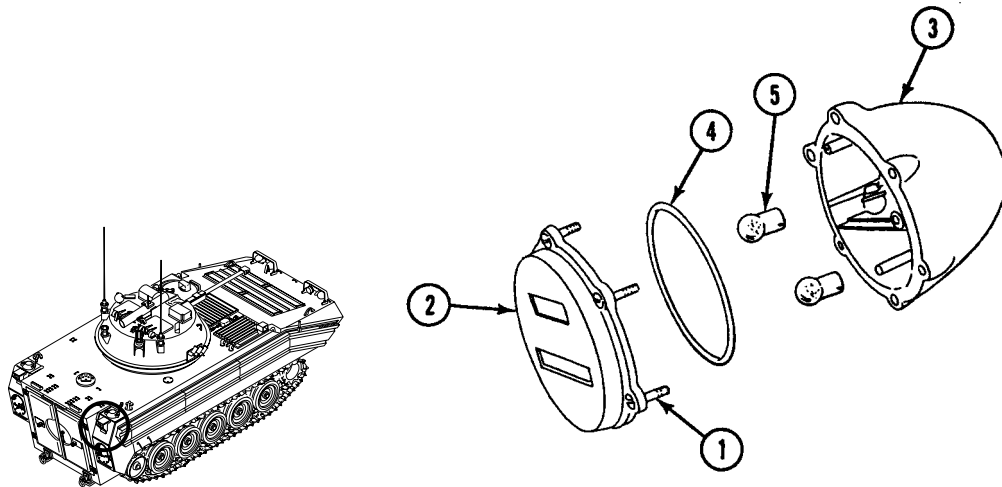
Preformed packing

Personnel Required

Unit Mechanic 63T10

**DISASSEMBLY**

1. LOOSEN SIX SCREWS (1) AND REMOVE DOOR (2) FROM LIGHT BODY (3).
2. REMOVE PREFORMED PACKING (4) FROM DOOR (2). DISCARD PACKING.
3. PUSH IN ON TWO BULBS (5) AND TURN TO THE LEFT. REMOVE BULBS FROM LIGHT BODY (3).



**ASSEMBLY**

1. INSTALL TWO BULBS (5) IN LIGHT BODY (3). PUSH IN AND TURN BULBS TO THE RIGHT TO SECURE.
2. PLACE NEW PREFORMED PACKING (4) ON DOOR (2).
3. INSTALL DOOR (2) ON LIGHT BODY (3) WITH SIX SCREWS (1).

**END OF TASK**





**REPLACE HEADLIGHT HIGH BEAM SELECTOR SWITCH**

**0235 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0235 00-1).  
 Installation (page 0235 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

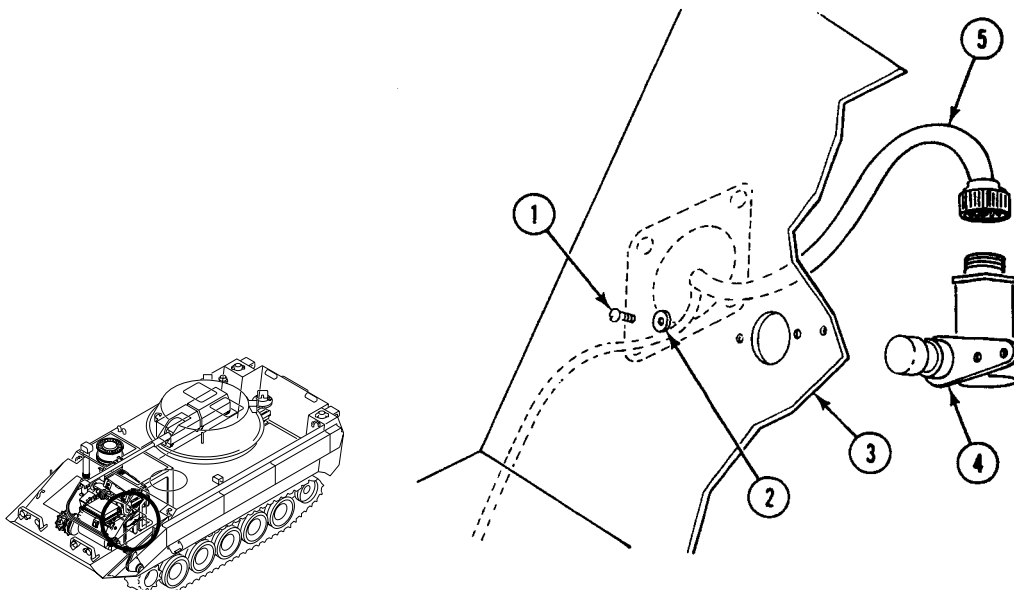
Lockwasher (2)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)

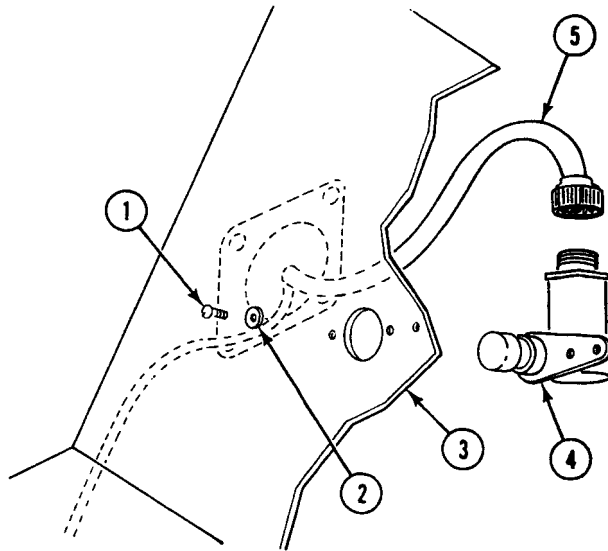
**REMOVAL**

1. FROM DRIVER'S COMPARTMENT, REMOVE TWO SCREWS (1) AND LOCKWASHERS (2) FROM BRACKET (3). DISCARD LOCKWASHERS.
2. REMOVE SWITCH (4) FROM BRACKET (3).
3. DISCONNECT CABLE (5) FROM REAR OF LIGHT BEAM SELECTOR SWITCH (4).



**INSTALLATION**

1. CONNECT CABLE (5) TO REAR OF SELECTOR SWITCH (4) AND INSTALL SWITCH IN BRACKET (3).
2. SECURE SWITCH (4) TO BRACKET (3) WITH TWO NEW LOCKWASHERS (2) AND SCREWS (1).



3. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1.
4. TURN ON SERVICE HEADLIGHTS AND OPERATE BEAM SELECTOR SWITCH TO CHECK THAT SWITCH WORKS. See TM 9-2350-366-10-1.
5. TURN ALL SWITCHES OFF. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE DOME LIGHT**

**0236 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0236 00-1).
- Installation (page 0236 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

- Lockwasher (4)
- Locknut (4)

Equipment Condition

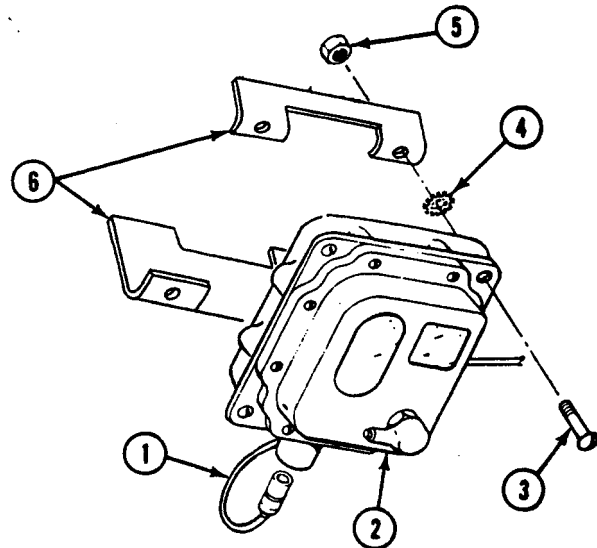
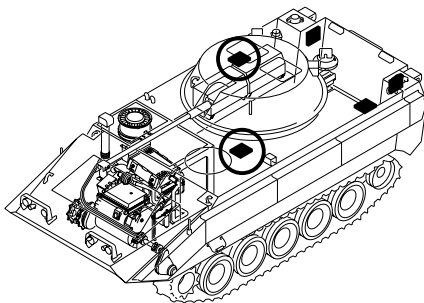
- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Battery ground strap disconnected (WP 0237 00)

**REMOVAL**

**NOTE**

**All dome lights are replaced the same way.**

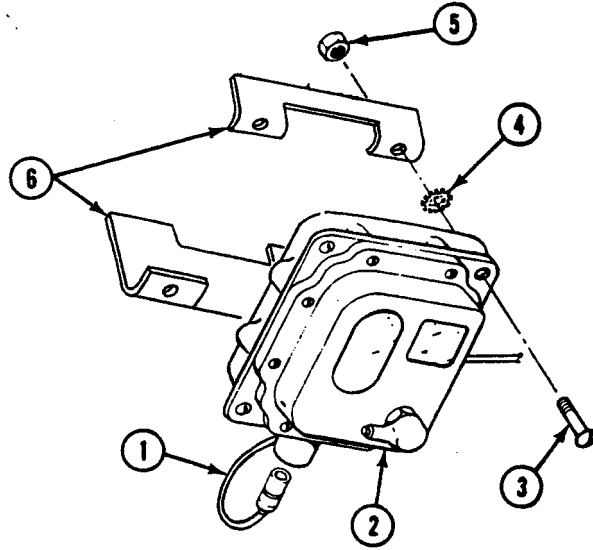
1. DISCONNECT CIRCUIT 38 LEAD (1) FROM REAR OF DOME LIGHT (2).
2. REMOVE FOUR SCREWS (3), LOCKWASHERS (4), LOCKNUTS (5), AND DOME LIGHT (2) FROM TWO MOUNT BRACKETS (6). DISCARD LOCKWASHERS AND LOCKNUTS.



**INSTALLATION**

1. PLACE DOME LIGHT (2) ON TWO MOUNT BRACKETS (6). SLIDE FOUR NEW LOCKWASHERS (4), ONE AT A TIME, BETWEEN DOME LIGHT AND MOUNT BRACKET (6) AND SECURE WITH SCREWS (3) AND NEW LOCKNUTS (5).

- CONNECT CIRCUIT 38 LEAD (1) TO REAR OF DOME LIGHT (2).



- CONNECT BATTERY GROUND STRAP (WP 0237 00).
- TURN MASTER SWITCH ON. See TM 9-2350-366-10-1.
- TURN DOME LIGHT SWITCH ON AND OFF TO CHECK THAT LIGHT WORKS. See TM 9-2350-366-10-1.
- TURN MASTER SWITCH OFF. See TM 9-2350-366-10-1.

**END OF TASK**

CHAPTER 17

UNIT MAINTENANCE INSTRUCTIONS  
FOR BATTERIES

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**WORK PACKAGE INDEX**

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| <u>Title</u>   | <u>Sequence No.</u> |
|--|---------------------|
| DISCONNECT/CONNECT BATTERY GROUND STRAP.....           | 0237 00             |
| REPLACE BATTERY LEADS AND TERMINALS.....               | 0238 00             |
| REPLACE BATTERIES AND RETAINERS.....                   | 0239 00             |
| REPAIR BATTERY BOX.....                                | 0240 00             |
| REPLACE BATTERY TO MASTER SWITCH LEAD (CIRCUIT 6)..... | 0241 00             |



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**DISCONNECT/CONNECT BATTERY GROUND STRAP**

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**0237 00**

**THIS WORK PACKAGE COVERS:**

Disconnect (page 0237 00-2).  
Connect (page 0237 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

Insulation tape (WP 0399 00, Item 37)  
Locknut

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
Vehicle blocked (TM 9-2350-366-10-1)  
All radios and heaters OFF (TM 9-2350-366-10-1)

---

REMOVAL

DISCONNECT

**WARNING**



Shorting live electrical circuits with tools or jewelry can seriously burn you.

Ensure MASTER POWER switch is switched to OFF before working on electrical circuits.

**WARNING**



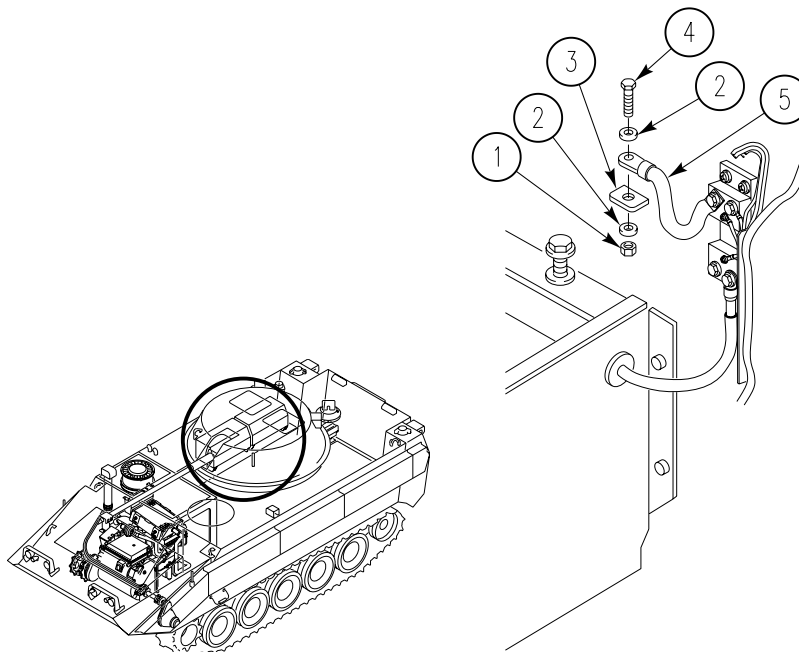
Shorting live electrical circuits with tools or jewelry can seriously burn you.

Remove vehicle ground cable before working on electrical circuits.

**NOTE**

Battery shunts are located differently, and some have guards, and some have cables, but all ground straps/cables are disconnected the same.

1. REMOVE LOCKNUT (1), SCREW (4), TWO WASHERS (2), AND GROUND STRAP (5) FROM HULL LUG (3). DISCARD LOCKNUT.

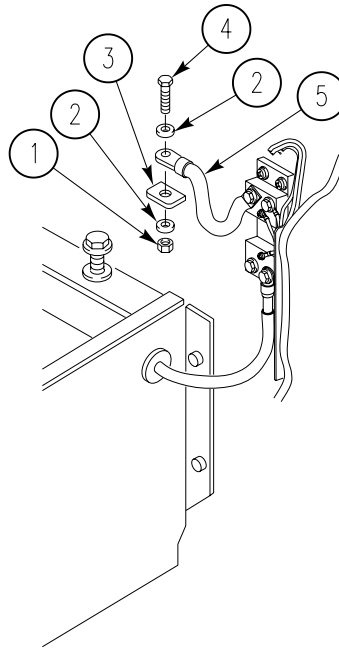




2. TAPE ALL OF GROUND STRAP (5) WITH INSULATION TAPE.

**INSTALLATION****CONNECT**

1. REMOVE TAPE FROM GROUND STRAP (5).



2. INSTALL GROUND STRAP (5) ON HULL LUG (3). SECURE WITH TWO WASHERS (2), SCREW (4), AND NEW LOCKNUT (1).

**END OF TASK**



---

**REPLACE BATTERY LEADS AND TERMINALS**

**0238 00**

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**THIS WORK PACKAGE COVERS:**

- Removal (page 0238 00-2).
- Cleaning (page 0238 00-4).
- Installation (page 0238 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0397 00, Item 64)
- Battery Wire Brush (WP 0397 00, Item 10)
- Battery Terminal Puller (WP 0397 00, Item 37)

References

TM 9-2350-366-10-1

Materials/Parts

- Grease (WP 0399 00, Item 11)
- Sodium bicarbonate (WP 0399 00, Item 59)
- Grommet (3)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
  - Vehicle blocked (TM 9-2350-366-10-1)
  - Rear personnel doors open (TM 9-2350-366-10-1)
  - Battery ground strap disconnected (WP 0237 00)
  - Battery access covers removed TM 9-2350-366-10-1
-

REMOVAL

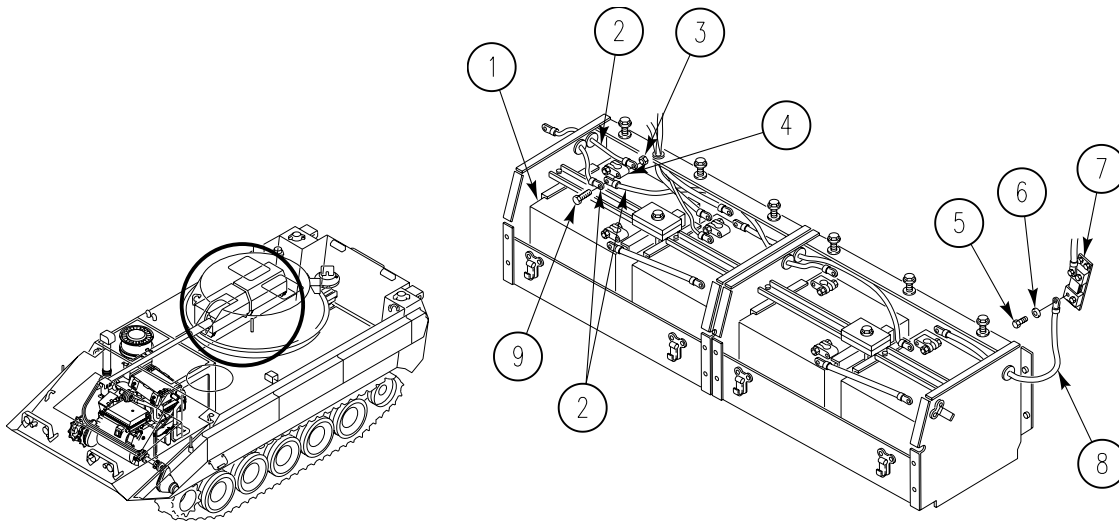
**WARNING**



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

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

1. REMOVE SCREW (5), WASHER (6), AND LEAD (8) FROM SHUNT (7).

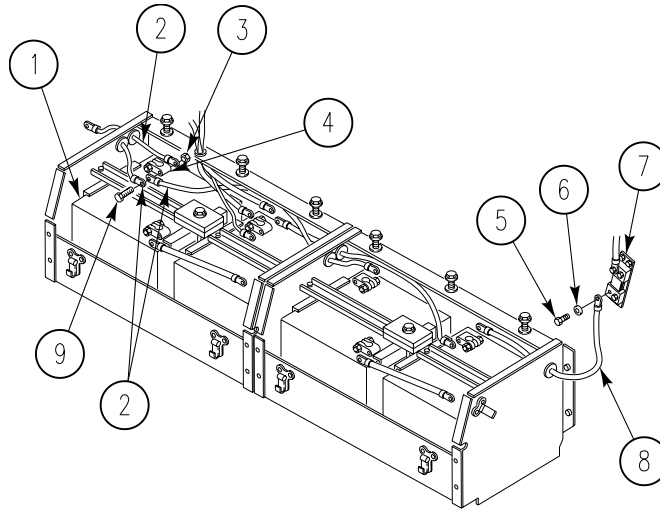


**NOTE**

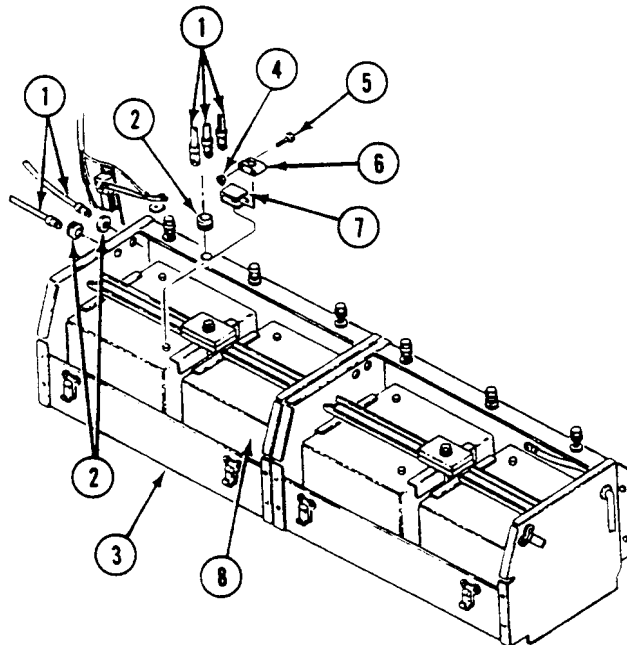
All leads are disconnected from four batteries in the same way.

Terminal connectors may be hard to remove from battery posts. Use battery terminal puller to remove terminals.

2. REMOVE NUT (3), SCREW (9), AND THREE LEADS (2) FROM NEGATIVE TERMINAL (4) OF FOURTH BATTERY (1).



3. REMOVE FIVE LEADS (1) AND THREE GROMMETS (2) FROM BATTERY BOXES (3). DISCARD GROMMETS.



4. REMOVE EIGHT NUTS (4), SCREWS (5), TERMINALS (6), AND RUBBER SHIELDS (7) FROM BATTERIES (8). USE BATTERY TERMINAL PULLER.

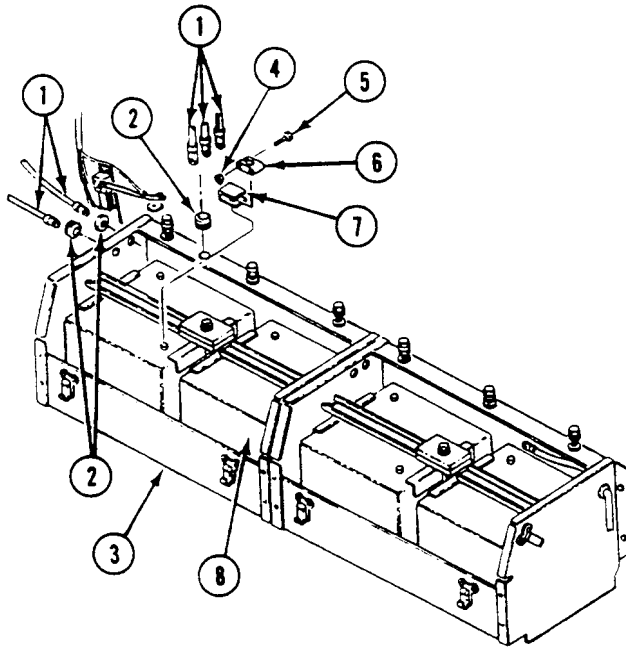
**CLEANING**

1. CLEAN BATTERY COVERS, TERMINALS, BATTERY POSTS, AND LEAD CONNECTORS WITH BRUSH DIPPED IN MIXTURE OF SODIUM BICARBONATE AND WATER. AFTER FOAMING STOPS, FLUSH PARTS WITH CLEAN WATER. DRY WITH CLEAN CLOTH.
2. CLEAN TERMINALS AND POSTS WITH BATTERY WIRE BRUSH.

**INSTALLATION****CAUTION**

**Battery cells can be damaged if the battery is hooked up incorrectly. Make sure battery is hooked up correctly.**

1. INSTALL EIGHT TERMINALS (6) ON RUBBER SHIELDS (7) ON FOUR BATTERIES (8). SECURE WITH EIGHT NUTS (4), AND SCREWS (5).

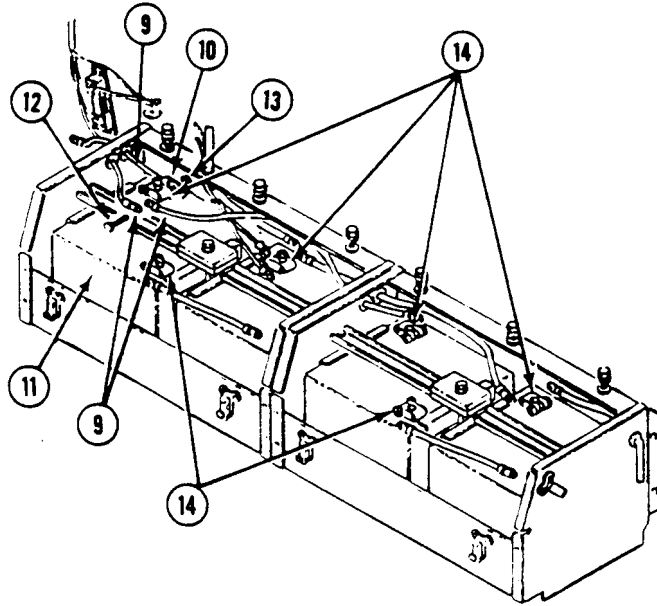


2. INSTALL TWO NEW GROMMETS (2) ON TWO LEADS (1). INSTALL NEW GROMMET (2) ON THREE LEADS (1). ROUTE LEADS IN BATTERY BOX (3). INSTALL GROMMETS IN BOX.

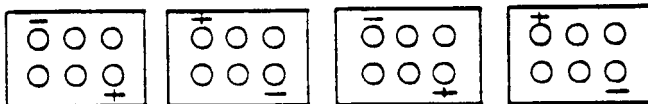
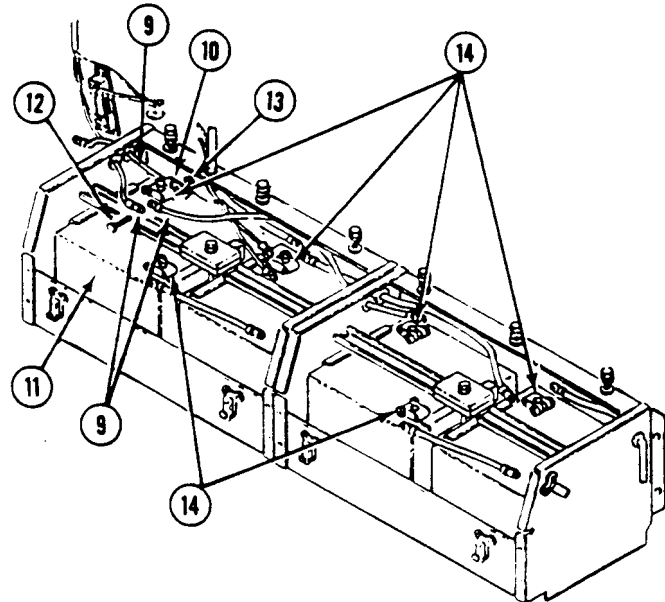
**NOTE**

All leads are connected to eight battery terminals in the same way.

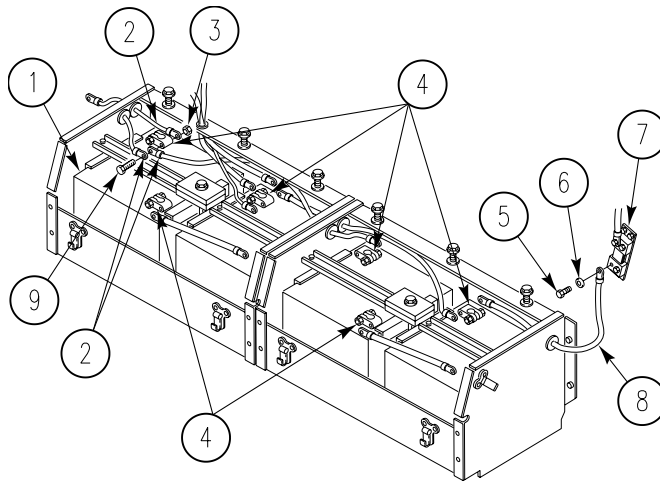
- INSTALL THREE LEADS (9) ON NEGATIVE TERMINAL (10) OF FOURTH BATTERY (11). SECURE WITH SCREW (12) AND NUT (13).



- COAT TOPS OF EIGHT BATTERY TERMINALS (14) WITH GREASE.



5. INSTALL LEAD (8) ON SHUNT (7). SECURE WITH SCREW (5) AND WASHER (6).



6. INSTALL BATTERY ACCESS COVERS. See TM 9-2350-366-10-1.
7. CONNECT BATTERY GROUND STRAP (WP 0237 00).
8. TURN MASTER SWITCH TO ON. CHECK BATT-GEN GAUGE ON INSTRUMENT PANEL. GAUGE SHOULD READ IN YELLOW ZONE. See TM 9-2350-366-10-1.
9. CLOSE REAR PERSONNEL DOORS. See TM 9-2350-366-10-1.

**END OF TASK**



**REPLACE BATTERIES AND RETAINERS**

**0239 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0239 00-1).
- Cleaning (page 0239 00-4).
- Installation (page 0239 00-5).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Materials/Parts

- Bituminous coating compound (WP 0399 00, Item 12)
- Epoxy coating kit (WP 0399 00, Item 28)
- Sodium bicarbonate (WP 0399 00, Item 59)
- Locknut (2)
- Locknut (4)

Personnel Required

- Unit Mechanic 63T10
- Helper (H)

References

- TM 9-2350-366-10-1
- TM 9-6140-200-14

Equipment Condition

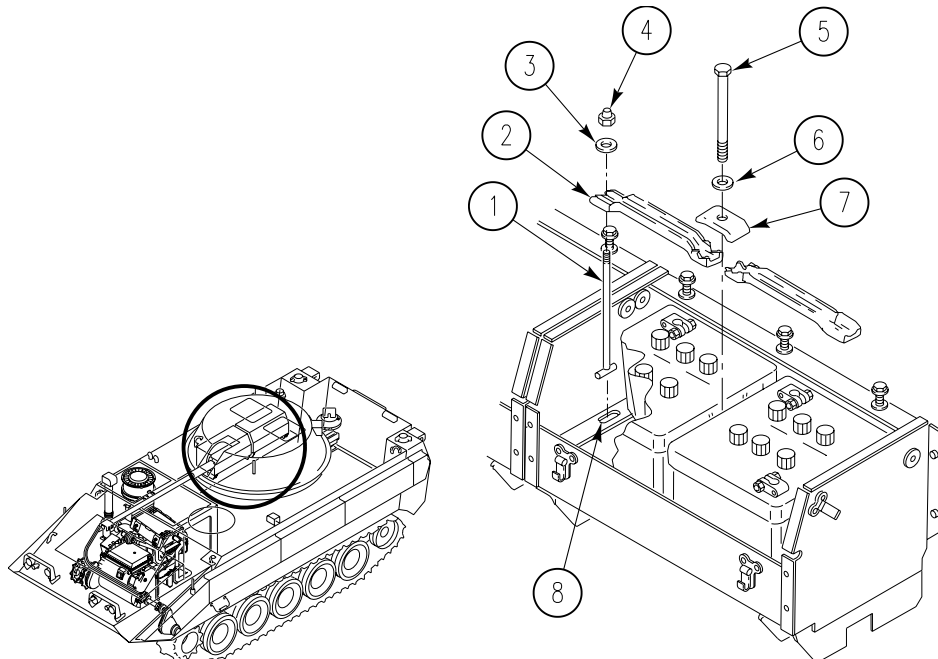
- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Rear personnel access doors open (TM 9-2350-366-10-1)
- Battery ground strap disconnected (WP 0237 00)
- Battery access cover removed (TM 9-2350-366-10-1)
- Battery terminals removed (WP 0238 00)

**REMOVAL**

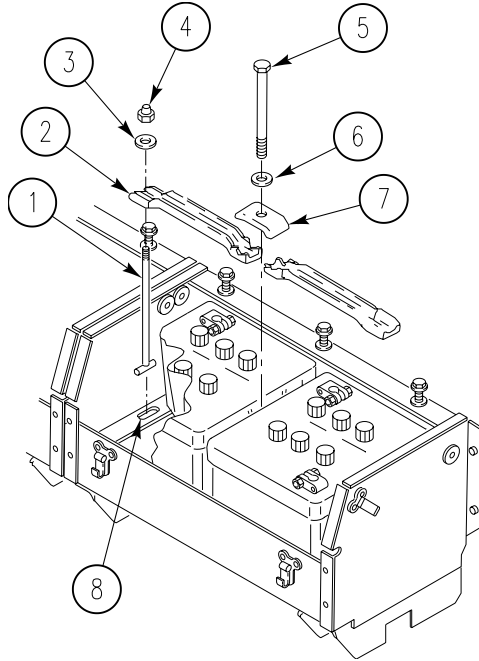
**NOTE**

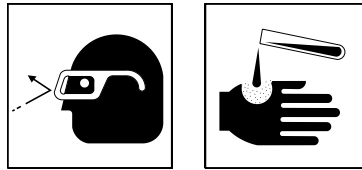
**Four batteries and four retainers are replaced the same way.**

1. REMOVE BOLT (5), WASHER (6), AND CLAMP (7) FROM TWO RETAINERS (2).



2. REMOVE TWO LOCKNUTS (4), WASHERS (3), AND RETAINERS (2) FROM TWO BOLTS (1). DISCARD LOCKNUTS.
3. TURN BOLTS (1) TO ALIGN WITH SLOT IN FRAME (8). REMOVE BOLTS FROM FRAME.



**WARNING**

Battery acid can blind or burn you.

Do not get acid on your skin or in your eyes. Wear gloves and goggles when working around batteries. If exposed, flush skin and/or eyes with water immediately.

**WARNING**

Battery is heavy and can cause back injury if handled improperly. Be sure to have helper assist you to remove and replace battery. Battery weighs about 75 lb (34 kg).

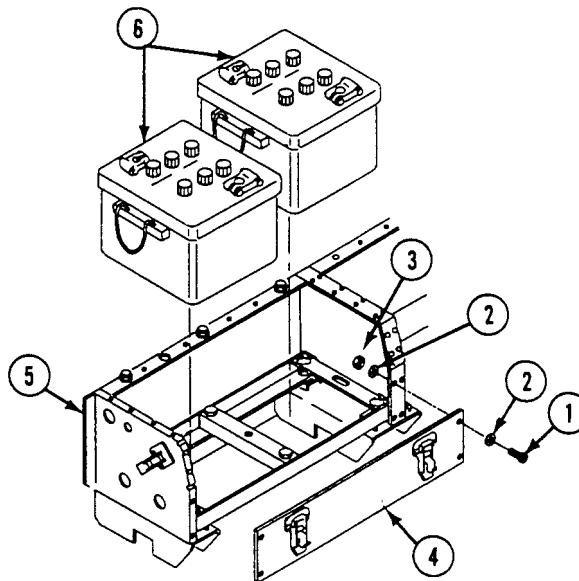
**CAUTION**

Be careful. Do not hit side of carrier. You could crack the case. Set battery down gently on a board.

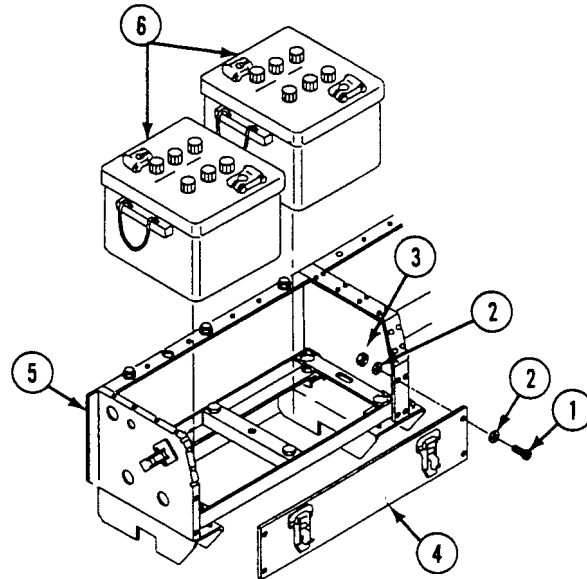
**NOTE**

On newer models, there are screws and washers securing the front plate to the battery box.

4. REMOVE FOUR SCREWS (1), EIGHT WASHERS (2), FOUR LOCKNUTS (3) AND FRONT PLATE (4) FROM BATTERY BOX (5). DISCARD LOCKNUTS.



5. REMOVE BATTERIES (6) FROM BATTERY BOX (5). LIFT BATTERY BY CARRYING HANDLES BUILT INTO EACH BATTERY. HAVE HELPER ASSIST.



## CLEANING

### WARNING



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

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

1. CLEAN BATTERY WITH NONMETALLIC BRUSH DIPPED IN MIXTURE OF SODIUM BICARBONATE AND WATER. AFTER FOAMING STOPS, FLUSH BATTERY WITH CLEAN WATER. DRY WITH CLEAN CLOTH.
2. CLEAN RETAINERS AND PARTS BY SOAKING IN MIXTURE OF SODIUM BICARBONATE AND WATER. DRY PARTS AND APPLY COATING LISTED IN ORDER OF PREFERENCE.
3. SEE TM 9-6140-200-14 TO SERVICE BATTERIES.

## INSTALLATION

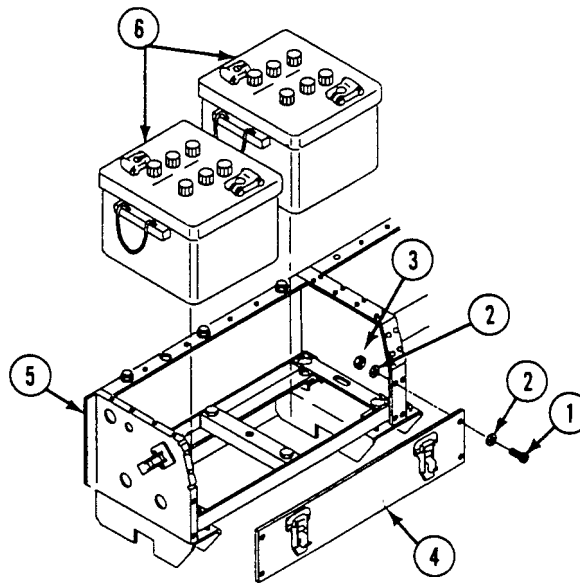
**WARNING**

Battery is heavy and can cause back injury if handled improperly. Be sure to have helper assist you to remove and replace battery. Battery weighs about 75 lb (34 kg).

**CAUTION**

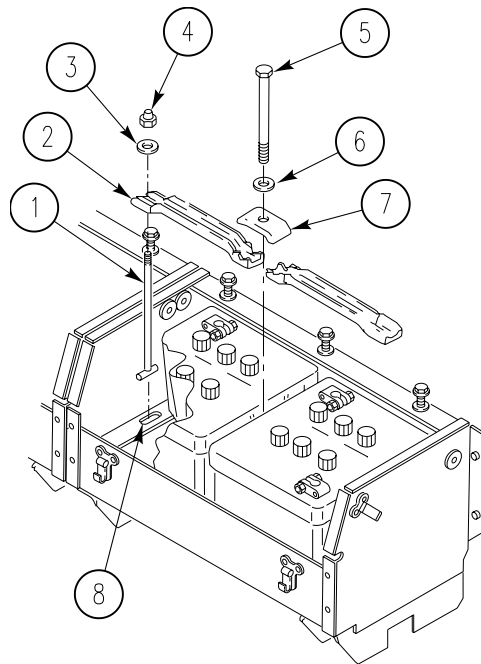
Place batteries with positive (+) and negative (-) terminals as shown in diagram below. Damage to components will occur if batteries are hooked up wrong.

1. PLACE BATTERIES (6) IN BATTERY BOX (5).



2. INSTALL FRONT PLATE (4) ON BATTERY BOX (5). SECURE WITH FOUR SCREWS (1), EIGHT WASHERS (2) AND FOUR NEW LOCKNUTS (3).

3. INSTALL TWO BOLTS (1) IN SLOTS OF BATTERY FRAME (8). TURN BOLTS TO SECURE.



4. INSTALL TWO RETAINERS (2) ON TWO BOLTS (1). SECURE WITH TWO WASHERS (3) AND NEW LOCKNUTS (4).
5. INSTALL CLAMP (7) ON TWO RETAINERS (3). SECURE WITH WASHER (6) AND BOLT (5).
6. INSTALL BATTERY TERMINALS (WP 0238 00).
7. INSTALL BATTERY ACCESS COVER. See TM 9-2350-366-10-1.
8. CONNECT BATTERY GROUND STRAP (WP 0237 00).
9. TURN MASTER SWITCH ON TO CHECK THAT BATTERIES ARE INSTALLED RIGHT. MASTER SWITCH ON LIGHT SHOULD COME ON. See TM 9-2350-366-10-1.
10. CLOSE AND LOCK REAR PERSONNEL DOORS. See TM 9-2350-366-10-1.

**END OF TASK**

---

**REPAIR BATTERY BOX**

**0240 00**

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**THIS WORK PACKAGE COVERS:**

- Removal (page 0240 00-2).
- Cleaning (page 0240 00-3).
- Installation (page 0240 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0397 00, Item 64)
- Socket Wrench Set (WP 0397 00, Item 70)
- Torque Wrench (WP 0397 00, Item 78)

References

TM 9-2350-366-10-1

Materials/Parts

- Bituminous coating compound (WP 0399 00, Item 12)
- Epoxy coating kit (WP 0399 00, Item 28)
- Sodium bicarbonate (WP 0399 00, Item 59)
- Grommet (3)
- Locknut (6)
- Mount (4)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
  - Carrier blocked (TM 9-2350-366-10-1)
  - Battery ground strap disconnected (WP 0237 00)
  - Battery access covers removed (TM 9-2350-366-10-1)
  - Battery leads and terminals removed (WP 0238 00)
  - Batteries and retainers removed (WP 0239 00)
-

## REMOVAL

## NOTE

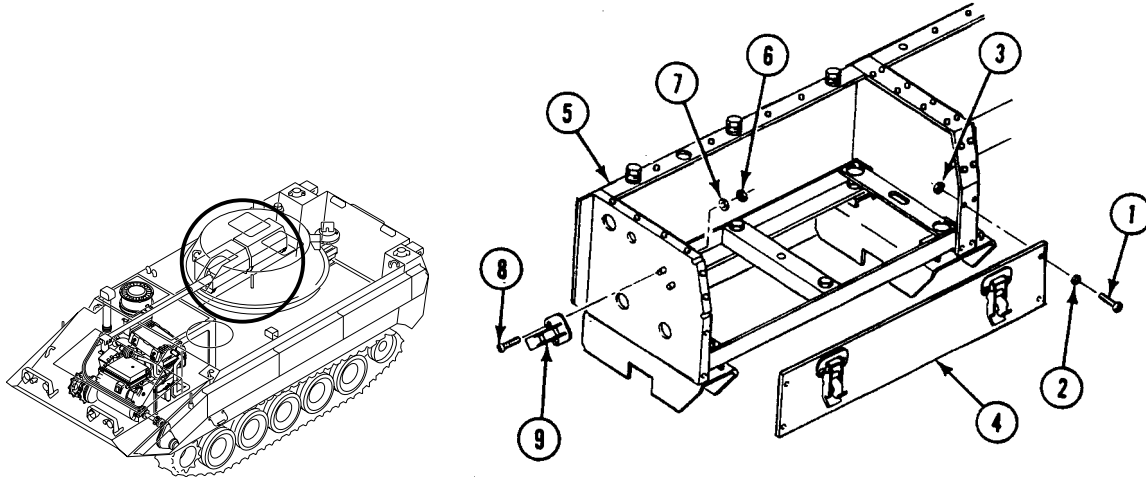
Both front and rear battery boxes are repaired the same way.

Repair of the battery box is limited to replacement of channel dividers, frames, frame mounts, and latches.

## NOTE

Six latches are removed the same way. Two are located on the boxes. Four are located on the front plates.

1. REMOVE FOUR SCREWS (1), EIGHT WASHERS (2), FOUR LOCKNUTS (3), AND FRONT PLATE (4) FROM BATTERY BOX (5). DISCARD LOCKNUTS.



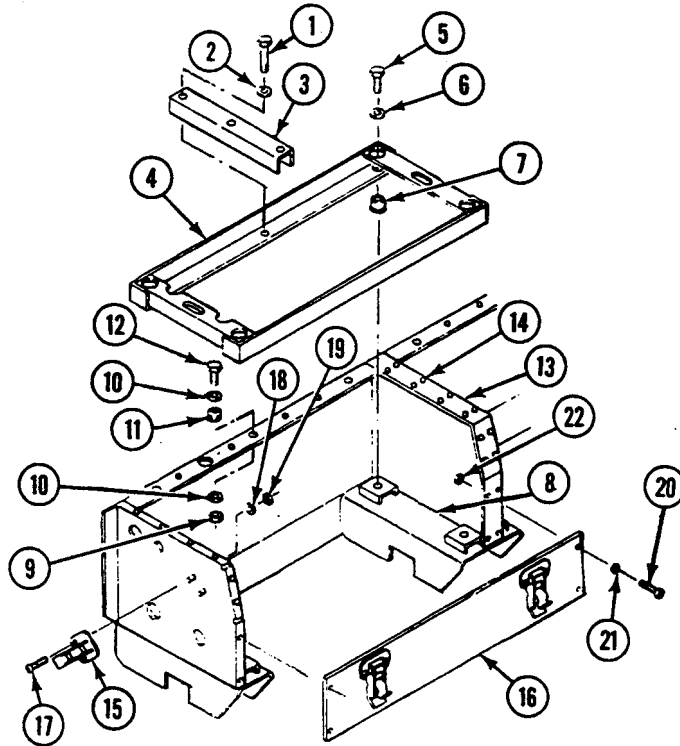
## NOTE

Six latches are removed the same way. Two are located on the boxes. Four are located on the front plates.

2. REMOVE TWO LOCKNUTS (6), WASHERS (7), SCREWS (8), AND LATCH (9) FROM BOX (5). DISCARD LOCKNUTS.



- REMOVE TWO SCREWS (1), WASHERS (2), AND CHANNEL DIVIDER (3) FROM BATTERY BOX FRAME (4).



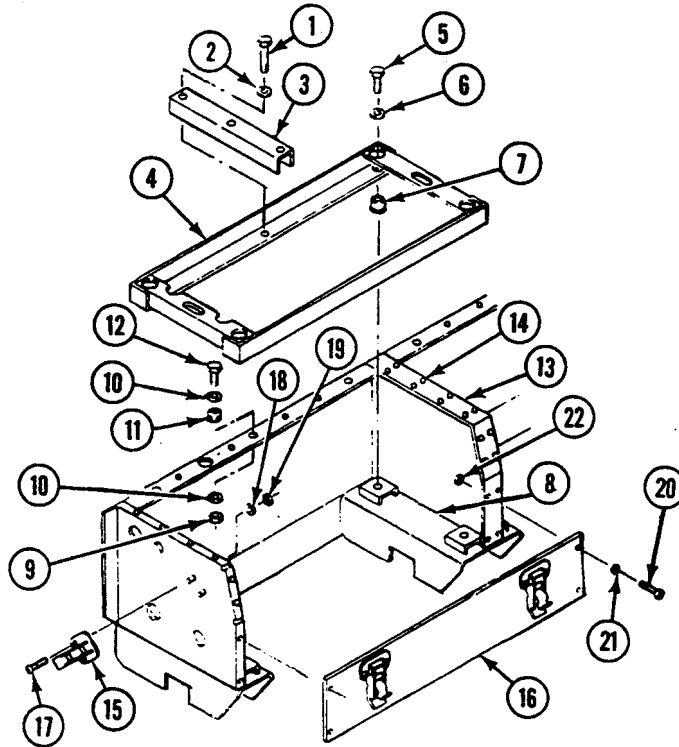
- REMOVE FOUR SCREWS (5), EIGHT WASHERS (6), AND BATTERY BOX FRAME (4) WITH FOUR FRAME MOUNTS (7) FROM BATTERY BOX SUPPORT (8).
- REMOVE FOUR FRAME MOUNTS (7) FROM BATTERY BOX FRAME (4). DISCARD MOUNTS.
- REMOVE THREE NUTS (9), SIX WASHERS (10), THREE GROMMETS (11), AND SCREWS (12) FROM REAR OF BATTERY BOX (13). DISCARD GROMMETS.
- IF DAMAGED, REMOVE RUBBER BUMPERS (14) FROM BATTERY BOX (13). DISCARD BUMPERS.

**CLEANING**

- CLEAN BATTERY BOX BY SOAKING IN MIXTURE OF SODIUM BICARBONATE AND WATER. DRY PARTS AND APPLY COATING.

## INSTALLATION

1. IF REMOVED, INSTALL NEW RUBBER BUMPERS (14) ON BATTERY BOX (13).



2. INSTALL THREE GROMMETS (11) IN REAR OF BATTERY BOX (13). SECURE WITH THREE SCREWS (12), SIX WASHERS (10), AND THREE NUTS (9).
3. INSTALL FOUR NEW FRAME MOUNTS (7) IN BATTERY BOX FRAME (4).
4. INSTALL BATTERY BOX FRAME (4) WITH FRAME MOUNTS (7). SECURE WITH FOUR SCREWS (5) AND WASHERS (6).
5. INSTALL CHANNEL DIVIDER (3) ON BATTERY BOX FRAME (4). SECURE WITH TWO SCREWS (1) AND WASHERS (2). TIGHTEN SCREWS TO 120-192 LB-IN (14-22 N•m) TORQUE.

**NOTE**

Six latches are installed the same way.

6. INSTALL LATCH (15) ON BATTERY BOX (13) OR FRONT PLATE (16). SECURE WITH TWO SCREWS (17), WASHERS (18), AND NEW LOCKNUTS (19).
7. INSTALL FRONT PLATE (16) ON BATTERY BOX (13). SECURE WITH FOUR SCREWS (20), EIGHT WASHERS (21), AND FOUR NEW LOCKNUTS (22).

8. INSTALL BATTERIES AND RETAINERS (WP 0239 00).
9. INSTALL BATTERY LEADS AND TERMINALS (WP 0238 00).
10. INSTALL BATTERY ACCESS COVERS. See TM 9-2350-366-10-1.
11. CONNECT BATTERY GROUND STRAP (WP 0237 00).
12. START ENGINE. See TM 9-2350-366-10-1.
13. CLOSE AND LOCK REAR PERSONNEL DOORS. See TM 9-2350-366-10-1.
14. STOP ENGINE. See TM 9-2350-366-10-1.

**END OF TASK**



**REPLACE BATTERY TO MASTER SWITCH LEAD (CIRCUIT 6)**

**0241 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0241 00-1).  
 Installation (page 0241 00-4).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Carrier blocked (TM 9-2350-366-10-1)  
 Rear personnel doors open (TM 9-2350-366-10-1)  
 Battery ground strap disconnected (WP 0237 00)  
 Battery access covers removed (TM 9-2350-366-10-1)

Materials/Parts

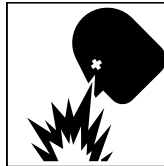
Grommet  
 Locknut (8)  
 Lockwasher (2)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

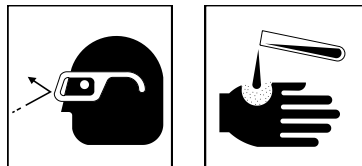
**WARNING**



**Hydrogen gas from batteries can explode and injure you.**

**Use caution when you are near batteries. Do not allow sparks and flame near batteries. Do not allow metal objects to contact exposed battery posts or cables.**

**WARNING**



**Battery acid can blind or burn you.**

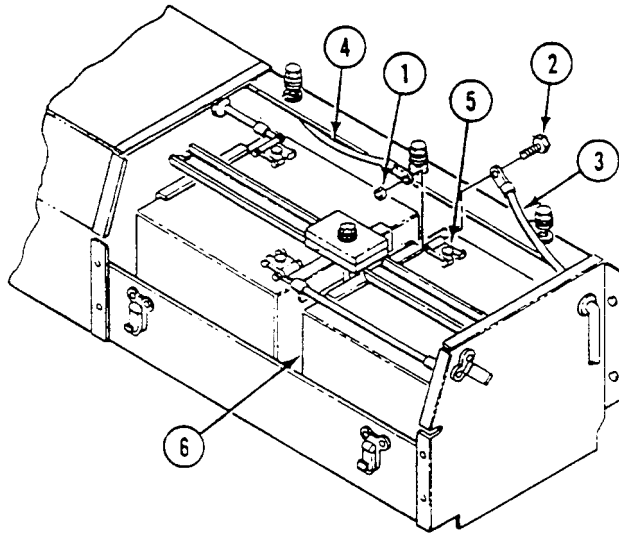
**Do not get acid on your skin or in your eyes. Wear gloves and goggles when working around batteries. If exposed, flush skin and/or eyes with water immediately.**

**WARNING**

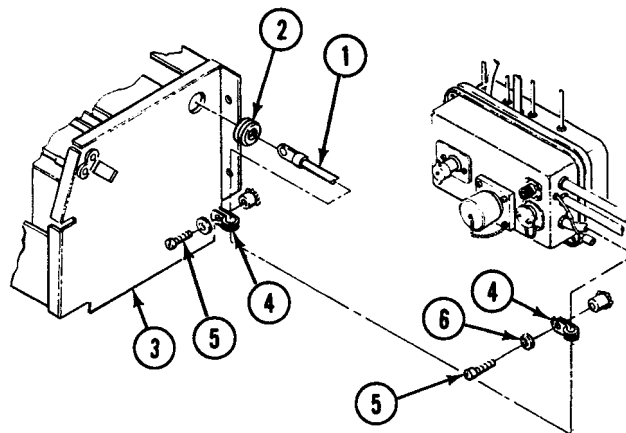
Shorting live electrical circuits with tools or jewelry can seriously burn you.

Remove vehicle ground cable before working on electrical circuits.

1. REMOVE NUT (1), SCREW (2), CIRCUIT 6 LEAD (3), AND POSITIVE JUMPER LEAD (4) FROM POSITIVE TERMINAL (5) OF FRONT BATTERY (6).



2. REMOVE CIRCUIT 6 LEAD (1) AND GROMMET (2) FROM FRONT BATTERY BOX (3). DISCARD GROMMET.

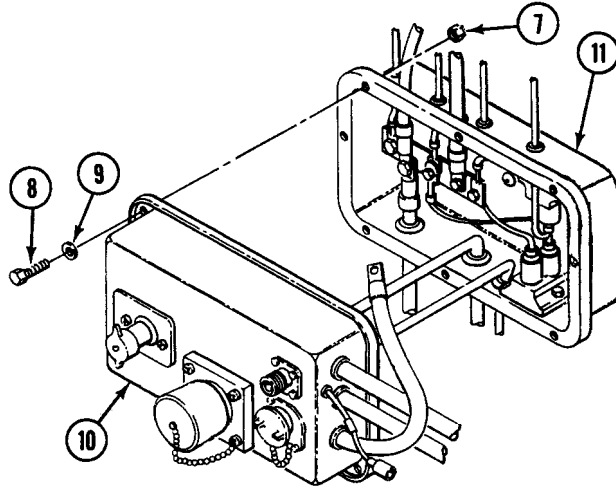


3. REMOVE TWO CLAMPS (4), SCREWS (5), LOCKWASHERS (6), AND CIRCUIT 6 LEAD (1) FROM HULL. DISCARD LOCKWASHERS.

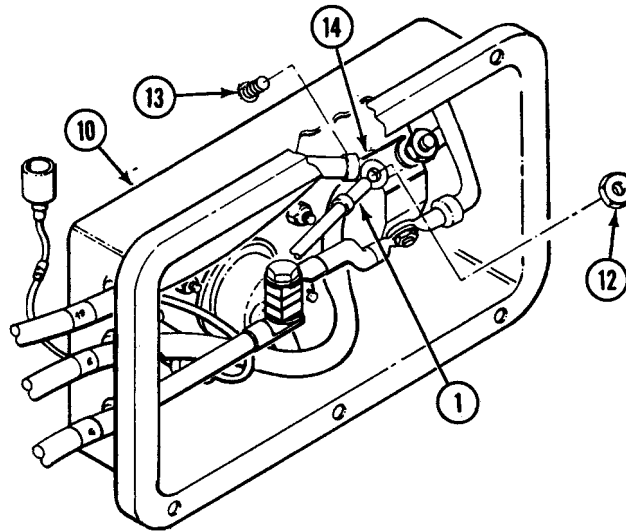
REPLACE BATTERY TO MASTER SWITCH LEAD (CIRCUIT 6) — Continued

0241 00

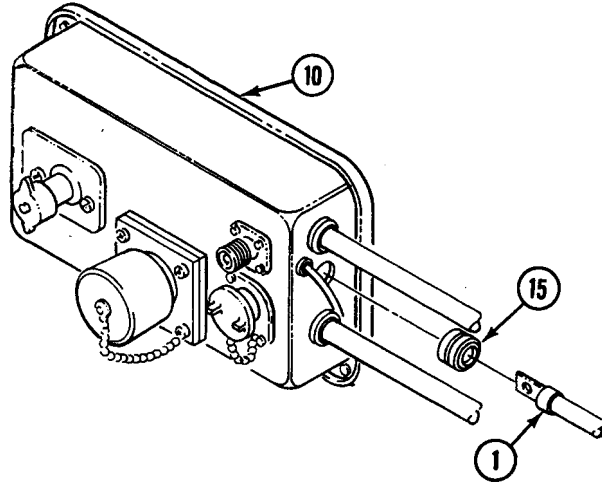
4. REMOVE EIGHT LOCKNUTS (7), SCREWS (8), WASHERS (9), AND MASTER SWITCH PANEL (10) FROM DISTRIBUTION BOX (11). DISCARD LOCKNUTS.



5. REMOVE NUT (12), SCREW (13), AND CIRCUIT 6 LEAD (1) FROM CONDUCTOR BUS (14) IN MASTER SWITCH PANEL (10).

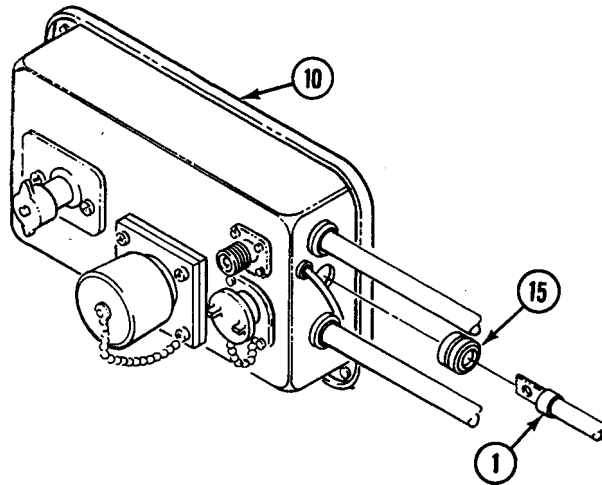


6. REMOVE CIRCUIT 6 LEAD (1) AND GROMMET (15) FROM MASTER SWITCH PANEL (10). DISCARD GROMMET. REMOVE LEAD FROM CARRIER.



**INSTALLATION**

1. INSTALL NEW GROMMET (15) ON CIRCUIT 6 LEAD (1). INSTALL LEAD AND GROMMET IN MASTER SWITCH PANEL (10).

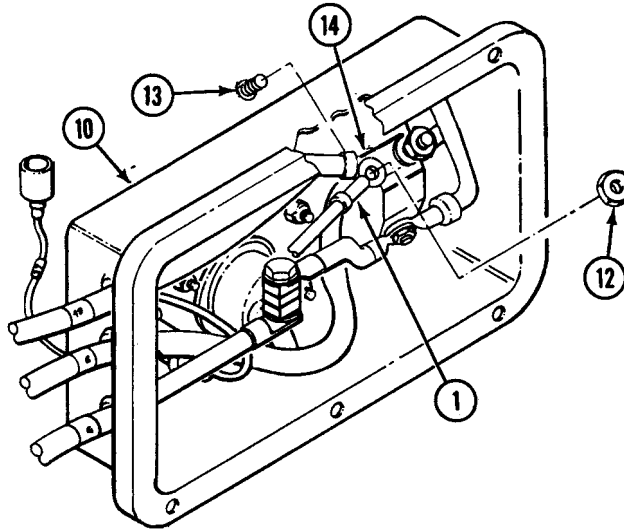




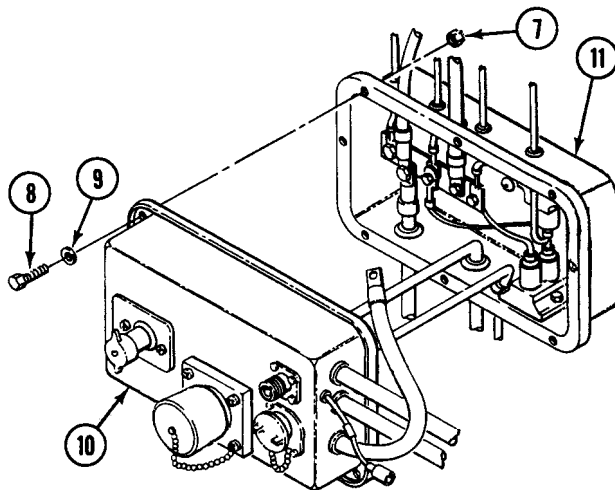
**NOTE**

Make sure circuit 6 lead, circuit 2, and circuit 400 lead are installed before tightening nut.

2. INSTALL CIRCUIT 6 LEAD (1) ON CONDUCTOR BUS (14) IN MASTER SWITCH PANEL (10). SECURE WITH SCREW (13) AND NUT (12).



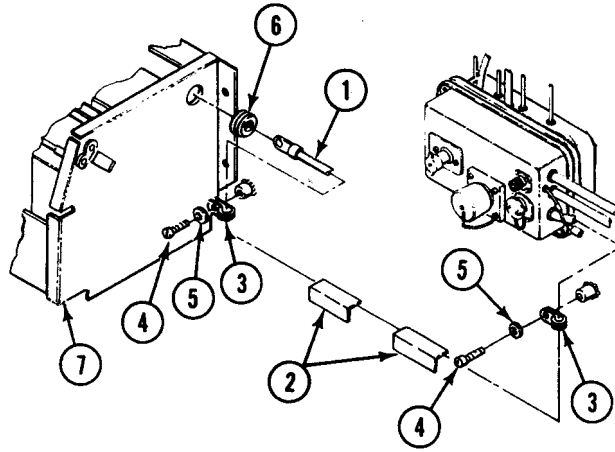
3. INSTALL MASTER SWITCH PANEL (10) ON DISTRIBUTION BOX (11). SECURE WITH EIGHT SCREWS (8), WASHERS (9), AND NEW LOCKNUTS (7).



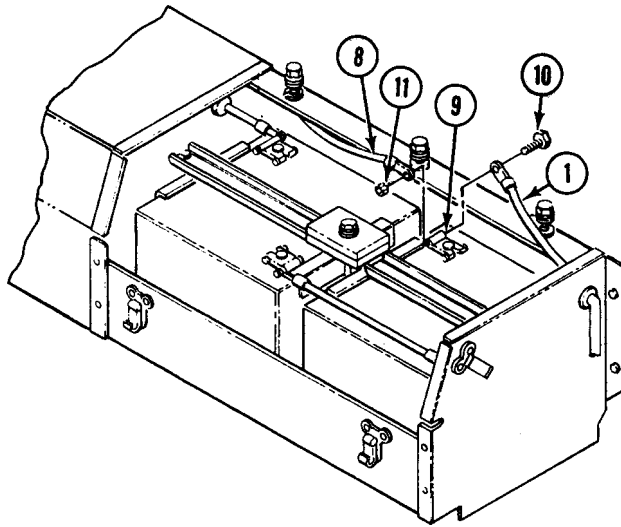
## REPLACE BATTERY TO MASTER SWITCH LEAD (CIRCUIT 6) — Continued

0241 00

4. ROUTE CIRCUIT 6 LEAD (1) THROUGH HULL SUPPORT CHANNEL (2).



5. INSTALL TWO CLAMPS (3) ON CIRCUIT 6 LEAD (1). SECURE WITH TWO SCREWS (4) AND NEW LOCKWASHERS (5).
6. INSTALL NEW GROMMET (6) ON CIRCUIT 6 LEAD (1). ROUTE LEAD THROUGH SIDE OF FRONT BATTERY BOX (7).
7. INSTALL CIRCUIT 6 LEAD (1) AND POSITIVE JUMPER LEAD (8) ON POSITIVE TERMINAL (9) OF FRONT BATTERY. SECURE WITH SCREW (10) AND NUT (11).



8. INSTALL BATTERY ACCESS COVERS. See TM 9-2350-366-10-1.
9. CONNECT BATTERY GROUND STRAP (WP 0237 00).
10. CLOSE AND LOCK REAR PERSONNEL DOORS. See TM 9-2350-366-10-1.

**END OF TASK**

CHAPTER 18

UNIT MAINTENANCE INSTRUCTIONS  
FOR AUXILIARY POWER

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**WORK PACKAGE INDEX**

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| <u>Title</u>   | <u>Sequence No.</u> |
|--|---------------------|
| REPLACE AUXILIARY POWER (SLAVE) RECEPTACLE.....                            | 0242 00             |
| REPLACE AUXILIARY POWER (SLAVE) RECEPTACLE GROUND LEAD.....                | 0243 00             |
| REPLACE MASTER SWITCH TO AUXILIARY POWER RECEPTACLE LEAD (CIRCUIT 50)..... | 0244 00             |



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**REPLACE AUXILIARY POWER (SLAVE) RECEPTACLE**

---

**0242 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0242 00-2).  
 Installation (page 0242 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Materials/Parts

Locknut (4)

Locknut (8)

Battery ground strap disconnected (WP 0237 00)

Warning light panel assembly removed (WP 0214 00)

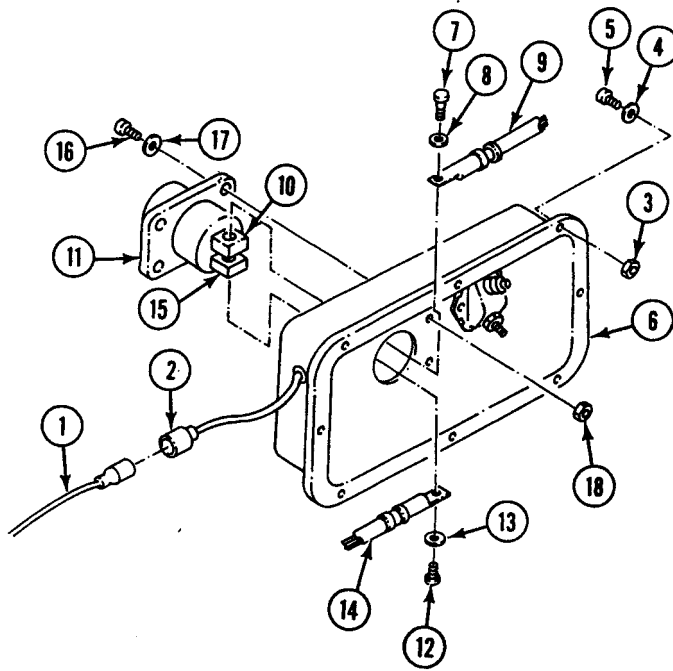
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Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. DISCONNECT CIRCUIT 37 LEAD (1) FROM CONNECTOR (2).
2. REMOVE EIGHT LOCKNUTS (3), WASHERS (4), SCREWS (5), AND MASTER SWITCH PANEL (6) FROM DISTRIBUTION BOX. DISCARD LOCKNUTS.
3. REMOVE SCREW (7), LOCKWASHER (8), AND CIRCUIT 50 LEAD (9) FROM POSITIVE POST (10) OF AUXILIARY POWER RECEPTACLE (11).
4. REMOVE SCREW (12), LOCKWASHER (13), AND GROUND STRAP (14) FROM NEGATIVE POST (15) OF RECEPTACLE (11).
5. REMOVE FOUR SCREWS (16), WASHERS (17), LOCKNUTS (18), AND RECEPTACLE (11) FROM MASTER SWITCH PANEL (6). DISCARD LOCKNUTS.

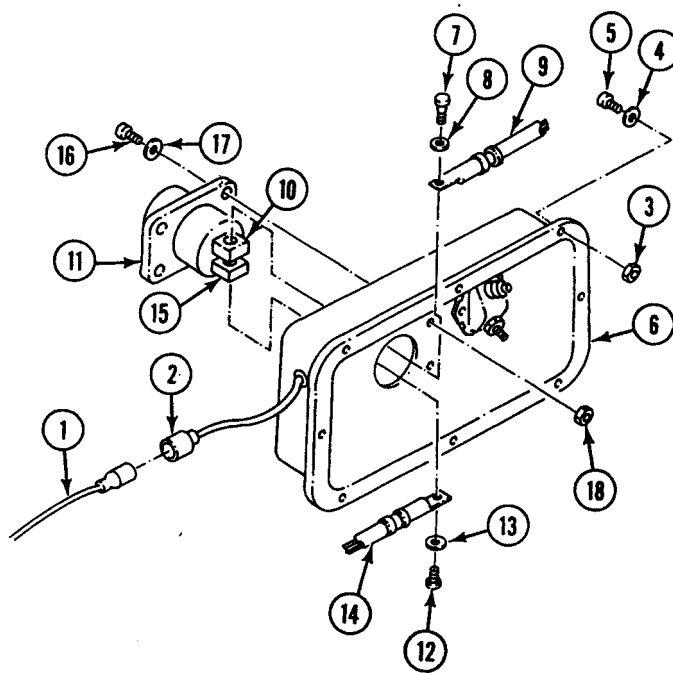


## INSTALLATION

## NOTE

Make sure protective cap retaining cord is attached to receptacle lower mount screw.

1. INSTALL RECEPTACLE (11) IN MASTER SWITCH PANEL (6). SECURE WITH FOUR SCREWS (16), WASHERS (17), AND NEW LOCKNUTS (18).
2. INSTALL GROUND STRAP (14) ON NEGATIVE POST (15) OF RECEPTACLE (11). SECURE WITH SCREW (12) AND LOCK WASHER (13).
3. INSTALL CIRCUIT 50 LEAD (9) ON POSITIVE POST (10) OF RECEPTACLE (11). SECURE WITH SCREW (7) AND LOCK WASHER (8).
4. INSTALL MASTER SWITCH PANEL (6) ON DISTRIBUTION BOX. SECURE WITH EIGHT SCREWS (5), WASHERS (4), AND NEW LOCKNUTS (3).
5. CONNECT CIRCUIT 37 LEAD (1) TO CONNECTOR (2).



6. INSTALL WARNING LIGHT PANEL ASSEMBLY (WP 0214 00).
7. CONNECT BATTERY GROUND STRAP (WP 0237 00).

**END OF TASK**





**REPLACE AUXILIARY POWER (SLAVE) RECEPTACLE GROUND LEAD**

**0243 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0243 00-1).  
 Installation (page 0243 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

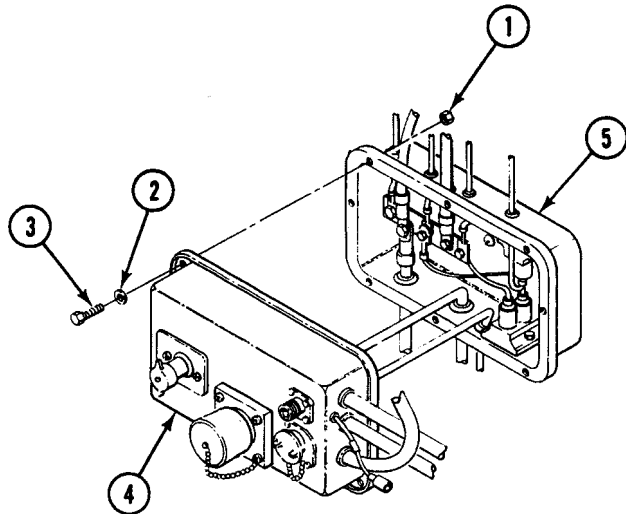
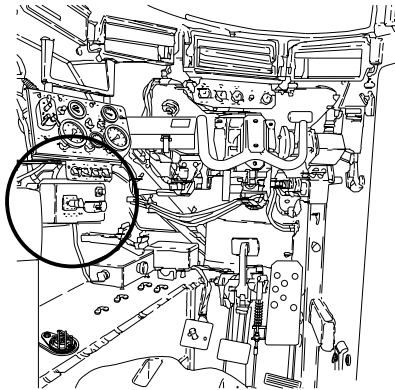
Grommet  
 Locknut (8)  
 Locknut  
 Lock washer

Equipment Condition

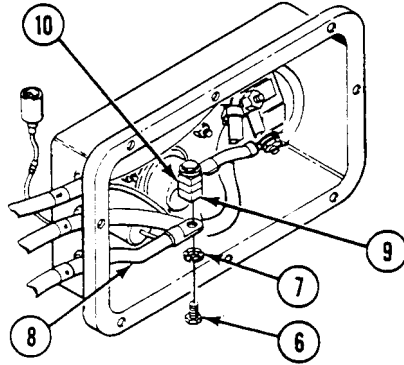
Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Battery ground strap disconnected (WP 0237 00)

**REMOVAL**

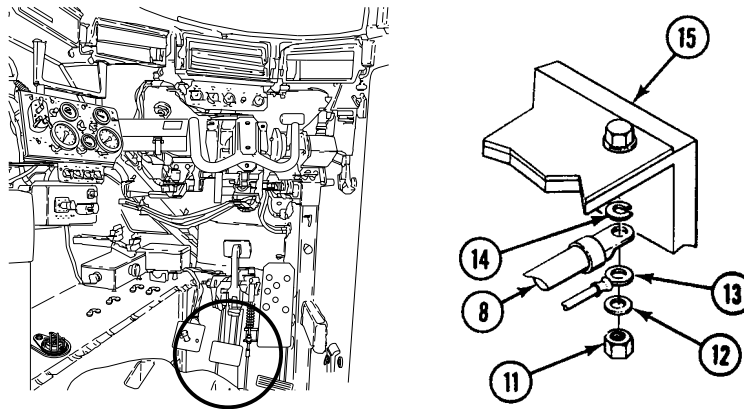
1. REMOVE EIGHT LOCKNUTS (1), WASHERS (2), SCREWS (3), AND MASTER SWITCH PANEL (4) FROM DISTRIBUTION BOX (5). DISCARD LOCKNUTS.



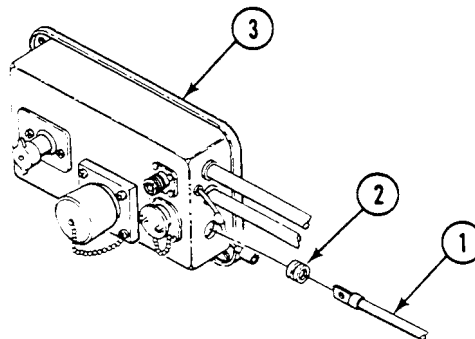
2. REMOVE SCREW (6), LOCK WASHER (7), AND GROUND LEAD (8) FROM NEGATIVE POST (9) OF AUXILIARY POWER RECEPTACLE (10). DO NOT DISCARD LOCK WASHER.



3. REMOVE LOCKNUT (11), WASHER (12), LEAD (13), GROUND LEAD (8), AND LOCK WASHER (14) FROM INSTRUMENT PANEL HULL STRUT MOUNT (15). DISCARD LOCKNUT AND LOCK WASHER.

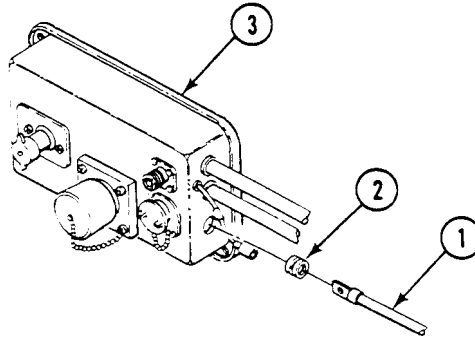


4. REMOVE GROUND LEAD (1) AND GROMMET (2) FROM MASTER SWITCH PANEL (3). DISCARD GROMMET.

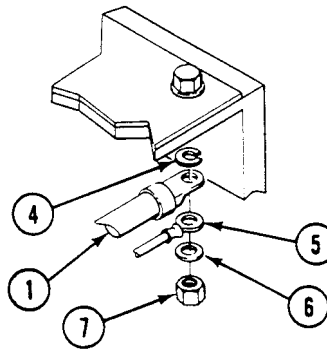


**INSTALLATION**

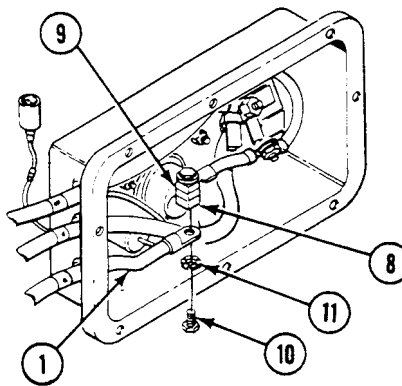
1. INSTALL NEW GROMMET (2) ON GROUND LEAD (1). ROUTE LEAD THROUGH MASTER SWITCH PANEL (3). INSTALL GROMMET IN PANEL.



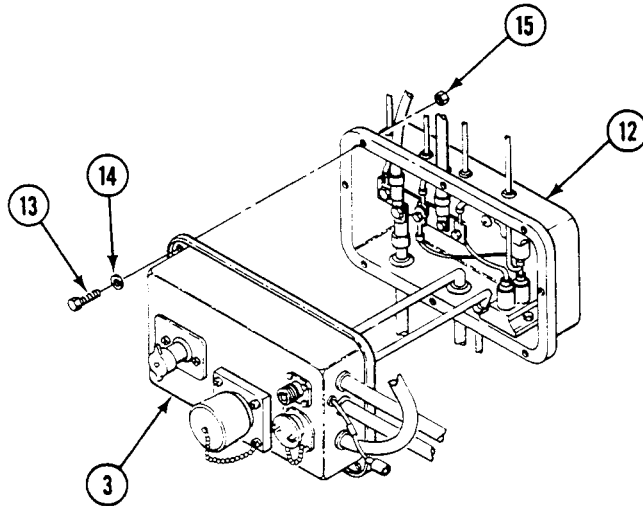
2. INSTALL NEW LOCK WASHER (4), GROUND LEAD (1), LEAD (5), WASHER (6), AND NEW LOCKNUT (7). TIGHTEN LOCKNUT.



3. INSTALL GROUND LEAD (1) ON NEGATIVE POST (8) OF AUXILIARY POWER RECEPTACLE (9). SECURE WITH SCREW (10) AND LOCK WASHER (11).



- INSTALL MASTER SWITCH PANEL (3) ON DISTRIBUTION BOX (12). SECURE WITH EIGHT SCREWS (13), WASHERS (14), AND NEW LOCKNUTS (15).



- CONNECT BATTERY GROUND STRAP (WP 0237 00).

**END OF TASK**

**REPLACE MASTER SWITCH TO AUXILIARY POWER RECEPTACLE LEAD  
(CIRCUIT 50)**

**0244 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0244 00-1).
- Repair or Replacement (page 0244 00-2)
- Installation (page 0244 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0397 00, Item 64)
- Multimeter (WP 0397 00, Item 30)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Battery ground lead disconnected (WP 0237 00)
- Warning light panel assembly removed (WP 0212 00)

Materials/Parts

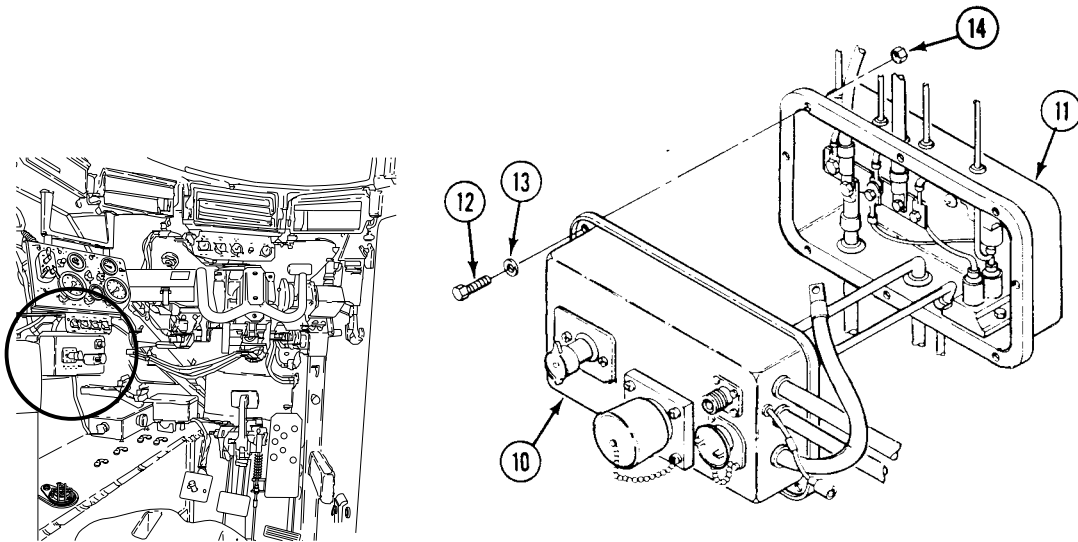
- Locknut (9)
- Lock washer (2)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. REMOVE EIGHT LOCKNUTS (14), WASHERS (13), SCREWS (12) AND MASTER SWITCH PANEL (10) FROM DISTRIBUTION BOX (11). DISCARD LOCKNUTS.

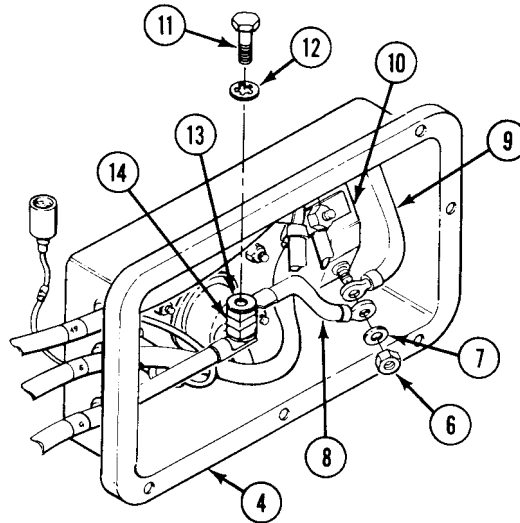


**REPLACE MASTER SWITCH TO AUXILIARY POWER RECEPTACLE LEAD (CIRCUIT 50)**

**0244 00**

— Continued

2. REMOVE LOCKNUT (6) AND LOCK WASHER (7) FROM CIRCUIT 50 LEAD (8) AND CIRCUIT 49 LEAD (9) ON MASTER SWITCH TERMINAL (10). DISCARD LOCKNUT AND LOCK WASHER.



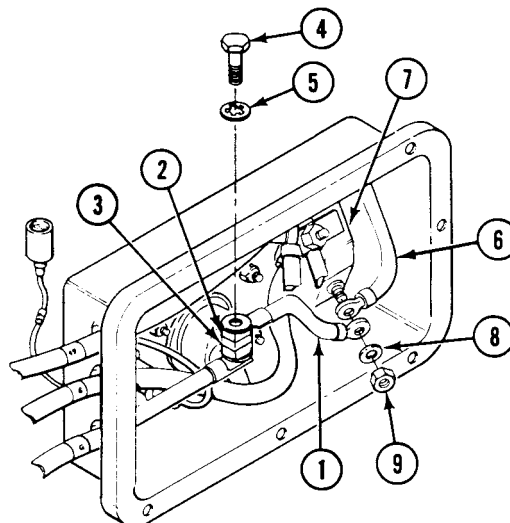
3. REMOVE SCREW (11), LOCK WASHER (12) AND CIRCUIT 50 LEAD (8) FROM POSITIVE TERMINAL (13) OF AUXILIARY POWER RECEPTACLE (14). REMOVE LEAD FROM MASTER SWITCH PANEL (4). DISCARD LOCK WASHER.

**REPAIR OR REPLACEMENT**

1. CHECK CIRCUIT 50 LEAD FOR CONTINUITY. REPLACE BAD LEAD.

**INSTALLATION**

1. INSTALL CIRCUIT 50 LEAD (1) ON POSITIVE TERMINAL (2) OF AUXILIARY POWER RECEPTACLE (3) WITH SCREW (4) AND NEW LOCK WASHER (5).

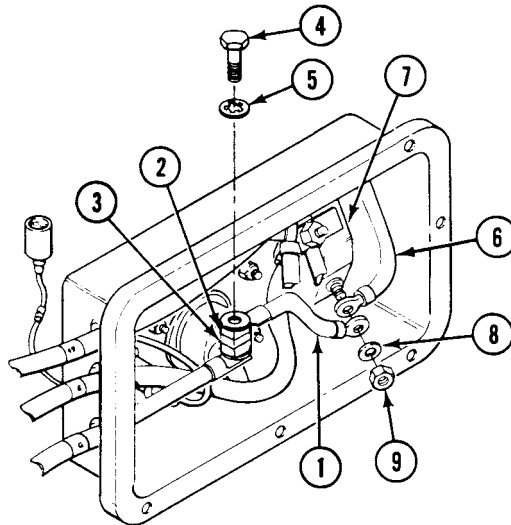


**REPLACE MASTER SWITCH TO AUXILIARY POWER RECEPTACLE LEAD (CIRCUIT 50)**

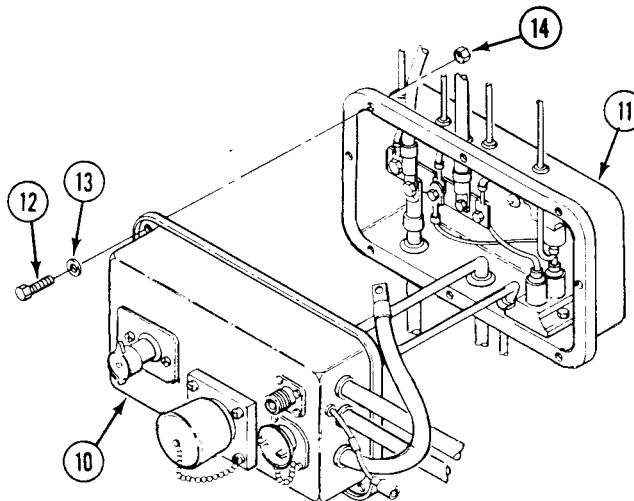
**0244 00**

— Continued

2. INSTALL CIRCUIT 50 LEAD (1) AND CIRCUIT 49 LEAD (6) ON MASTER SWITCH TERMINAL (7) WITH NEW LOCK WASHER (8) AND NEW LOCKNUT (9).



3. INSTALL MASTER SWITCH PANEL (10) ON DISTRIBUTION BOX (11) WITH EIGHT SCREWS (12), WASHERS (13) AND NEW LOCKNUTS (14).



4. INSTALL WARNING LIGHT PANEL ASSEMBLY (WP 0212 00).
5. CONNECT BATTERY GROUND LEAD (WP 0237 00).
6. TURN MASTER SWITCH TO ON. See TM 9-2350-366-10-1.
7. CHECK TO SEE IF MASTER SWITCH LIGHT COMES ON. SEE TM 9-2350-366-10-1.
8. TURN MASTER SWITCH TO OFF. SEE TM 9-2350-366-10-1.

**END OF TASK**





**CHAPTER 19**  
**UNIT MAINTENANCE INSTRUCTIONS**  
**FOR SWITCHES**

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**WORK PACKAGE INDEX**

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| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| REPLACE MASTER SWITCH.....                            | .0245 00            |
| REPLACE MASTER SWITCH PANEL ASSEMBLY.....             | .0246 00            |
| REPLACE INSTRUMENT PANEL ON-OFF SWITCHES.....         | .0247 00            |
| REPLACE MAIN LIGHT SWITCH.....                        | .0248 00            |
| REPLACE ENGINE START SWITCH.....                      | .0249 00            |
| REPLACE HORN SWITCH.....                              | .0250 00            |
| REPLACE CREW FAN SWITCH AND CIRCUIT BREAKER.....      | .0251 00            |
| REMOVE/REPLACE DRIVER'S HATCH SWITCH 1S9.....         | .0252 00            |
| REMOVE/REPLACE DRIVER'S HATCH SWITCH 1S6.....         | .0253 00            |
| REPLACE TRANSMISSION OIL HIGH TEMPERATURE SWITCH..... | .0254 00            |
| REPLACE GENERATOR FIELD PRESSURE SWITCH.....          | .0255 00            |
| REPLACE STARTER RELAY SWITCH.....                     | .0256 00            |
| REPLACE CIRCUIT BREAKER.....                          | .0257 00            |
| REPLACE BILGE PUMP CIRCUIT BREAKER.....               | .0258 00            |



**REPLACE MASTER SWITCH**

**0245 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0245 00-1).
- Installation (page 0245 00-3).

**INITIAL SETUP:**

Maintenance Level  
Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Battery ground strap disconnected (WP 0237 00)
- Warning light panel assembly removed (WP 0212 00)

Materials/Parts

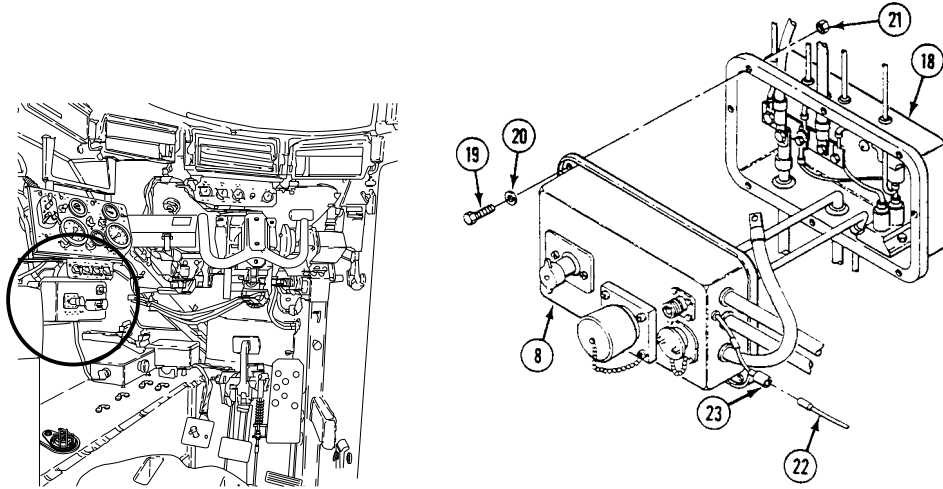
- Locknut (2)
- Locknut (8)
- Lockwasher (2)

Personnel Required

Unit Mechanic 63T10

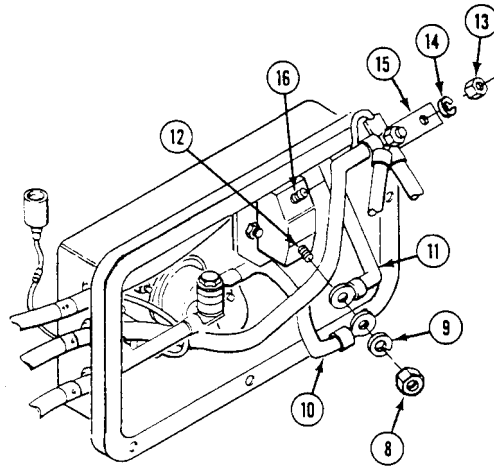
**REMOVAL**

1. DISCONNECT CIRCUIT 37 LEAD (22) FROM CONNECTOR (23).



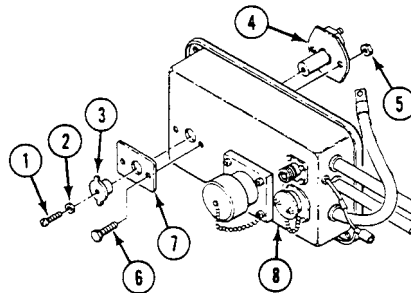
2. REMOVE EIGHT LOCKNUTS (21), WASHERS (20), SCREWS (19), AND MASTER SWITCH PANEL (8) FROM DISTRIBUTION BOX (18). DISCARD LOCKNUTS.

3. REMOVE NUT (8), LOCKWASHER (9), CIRCUIT 50 LEAD (10), AND CIRCUIT 49 LEAD (11) FROM MASTER SWITCH TERMINAL (12). DISCARD LOCKWASHER.

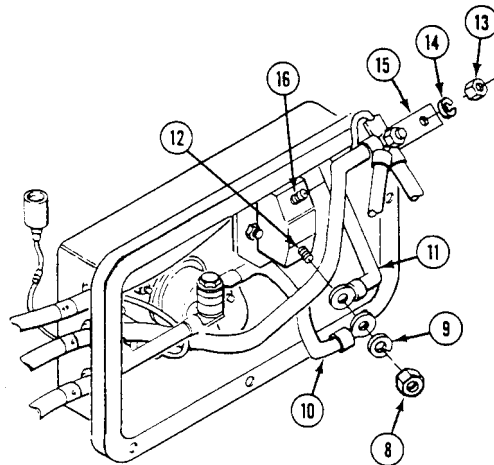


4. REMOVE NUT (13), LOCKWASHER (14), AND CONDUCTOR BUS (15) WITH ATTACHED LEADS FROM MASTER SWITCH TERMINAL (16). DISCARD LOCKWASHER.

5. REMOVE SCREW (1), WASHER (2), AND KNOB (3) FROM MASTER SWITCH (4).



6. REMOVE TWO LOCKNUTS (5), SCREWS (6), MASTER SWITCH (4), AND NAMEPLATE (7) FROM MASTER SWITCH PANEL (8). DISCARD LOCKNUTS.

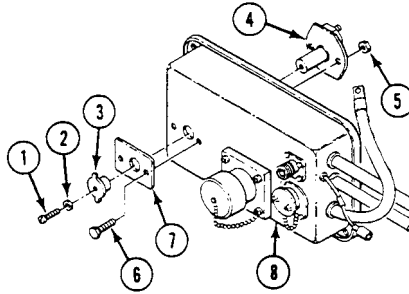


## INSTALLATION

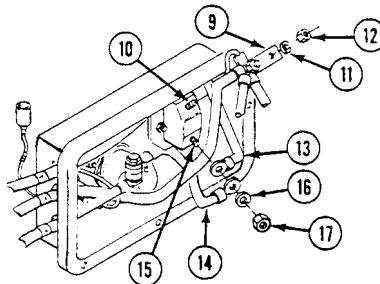
**NOTE**

Make sure nameplate is not installed upside down.

1. ALIGN MASTER SWITCH (4) AND NAMEPLATE (7) ON MASTER SWITCH PANEL (8). SECURE WITH TWO SCREWS (6) AND NEW LOCKNUTS (5).

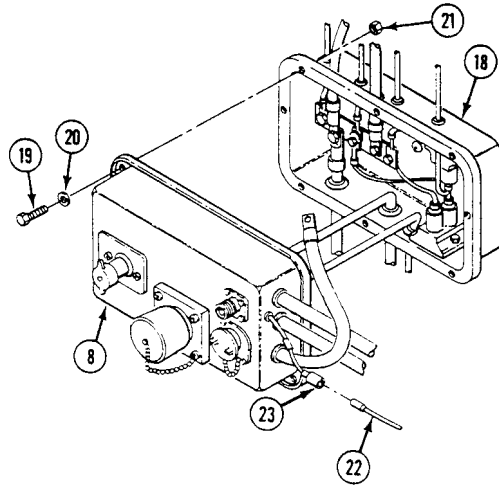


2. PLACE KNOB (3) ON MASTER SWITCH (4). SECURE WITH WASHER (2) AND SCREW (1).
3. INSTALL CONDUCTOR BUS (9) WITH ATTACHED LEADS ON TERMINAL (10). SECURE WITH NEW LOCKWASHER (11) AND NUT (12).



4. INSTALL CIRCUIT 49 LEAD (13) AND CIRCUIT 50 LEAD (14) ON TERMINAL (15). SECURE WITH NEW LOCKWASHER (16) AND NUT (17).

5. INSTALL MASTER SWITCH PANEL (8) ON DISTRIBUTION BOX (18). SECURE WITH EIGHT SCREWS (19), WASHERS (20), AND NEW LOCKNUTS (21).



6. CONNECT CIRCUIT 37 LEAD (22) TO CONNECTOR (23).
7. INSTALL WARNING LIGHT PANEL ASSEMBLY (WP 0269 00).
8. CONNECT BATTERY GROUND STRAP (WP 0237 00).
9. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1.
10. CHECK THAT MASTER SWITCH ON INDICATOR LIGHT COMES ON. See TM 9-2350-366-10-1.
11. TURN MASTER SWITCH OFF. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE MASTER SWITCH PANEL ASSEMBLY**

**0246 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0246 00-1).
- Installation (page 0246 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Battery ground strap disconnected (WP 0237 00)
- Infrared power supply cable disconnected from master switch panel (TM 9-2350-366-10-1)
- Instrument warning light panel removed (WP 0212 00)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Materials/Parts

- Grommet (3)
- Locknut
- Locknut (8)
- Lockwasher
- Lockwasher
- Lockwasher

Personnel Required

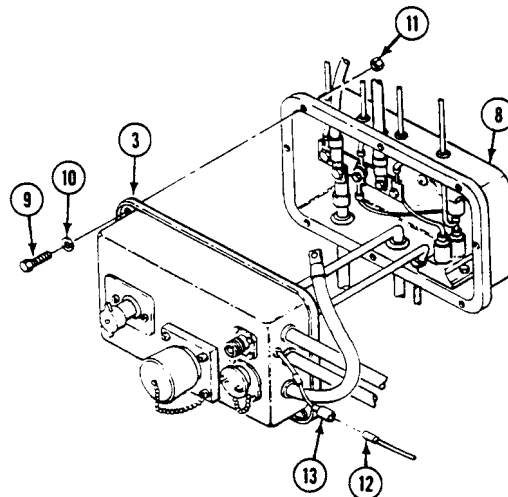
Unit Mechanic 63T10

References

TM 9-2350-366-10-1

**REMOVAL**

1. DISCONNECT CIRCUIT 37 LEAD (12) FROM CONNECTOR (13).

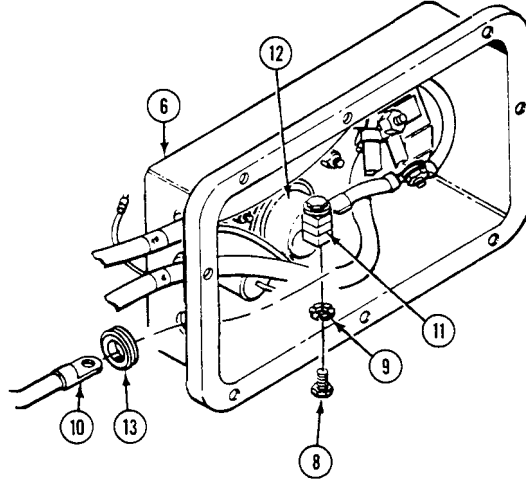


2. REMOVE EIGHT LOCKNUTS (11), WASHERS (10), SCREWS (9), AND MASTER SWITCH PANEL (3) FROM DISTRIBUTION BOX (8). DISCARD LOCKNUTS.

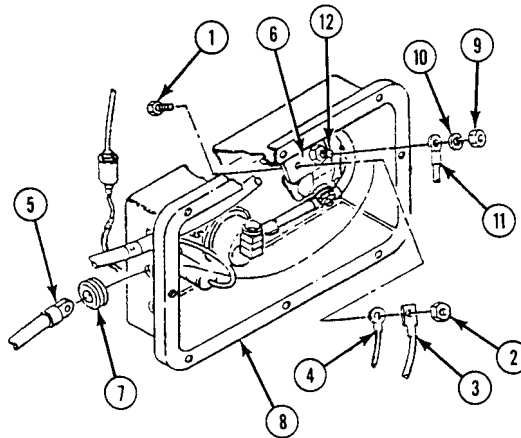
REPLACE MASTER SWITCH PANEL ASSEMBLY — Continued

0246 00

3. REMOVE SCREW (8), LOCKWASHER (9), AND GROUND LEAD (10) FROM NEGATIVE POST (11) OF AUXILIARY POWER RECEPTACLE (12). REMOVE GROUND LEAD (10) AND GROMMET (13) FROM MASTER SWITCH PANEL (6). DISCARD LOCKWASHER AND GROMMET.



4. REMOVE SCREW (1), LOCKNUT (2), CIRCUIT 400 LEAD (3), CIRCUIT 2 LEAD (4), AND CIRCUIT 6 LEAD (5) FROM CONDUCTOR BUS (6). REMOVE CIRCUIT 6 LEAD (5) AND GROMMET (7) FROM MASTER SWITCH PANEL (8). DISCARD LOCKNUT AND GROMMET.

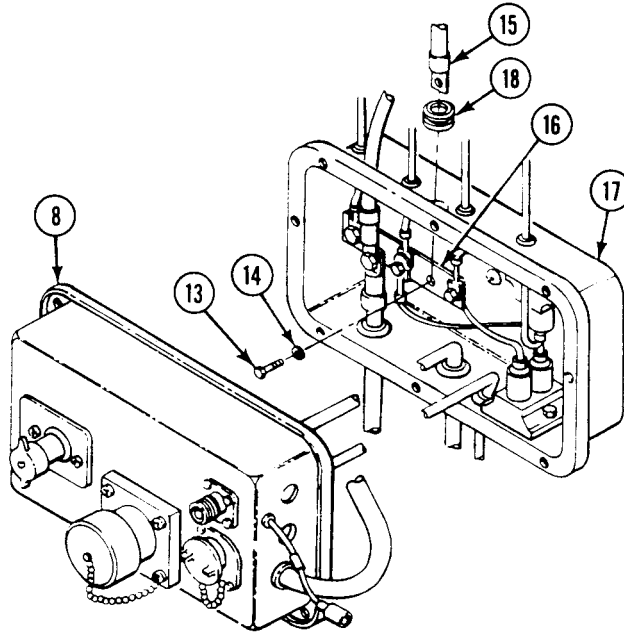


5. REMOVE NUT (9), LOCKWASHER (10), AND CIRCUIT 2A LEAD (11) FROM MASTER SWITCH POST (12). DISCARD LOCKWASHER.



**REPLACE MASTER SWITCH PANEL ASSEMBLY — Continued****0246 00**

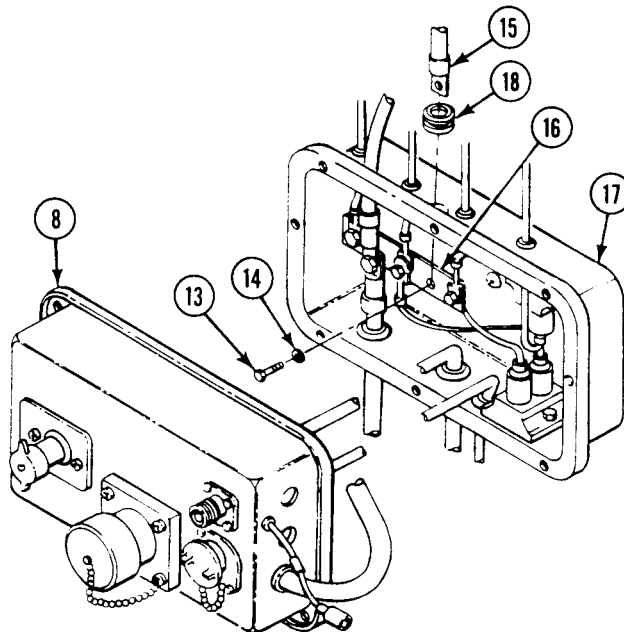
6. REMOVE SCREW (13), LOCKWASHER (14), AND CIRCUIT 49 LEAD (15) FROM BUS BAR (16) OF DISTRIBUTION BOX (17). REMOVE CIRCUIT 49 LEAD (15) AND GROMMET (18) FROM DISTRIBUTION BOX (17). DISCARD LOCKWASHER AND GROMMET.



7. REMOVE MASTER SWITCH PANEL (8) FROM CARRIER.

**INSTALLATION**

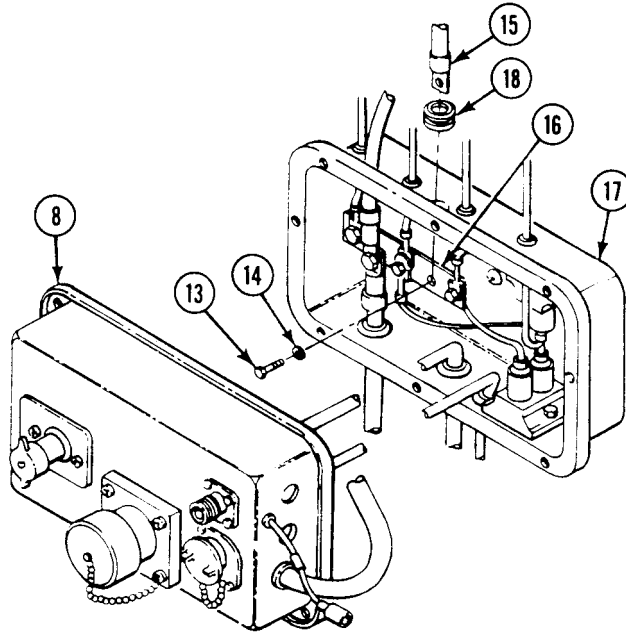
1. INSTALL NEW GROMMET (18) ON CIRCUIT 49 LEAD (15). ROUTE LEAD INTO DISTRIBUTION BOX (17) AND SECURE GROMMET.



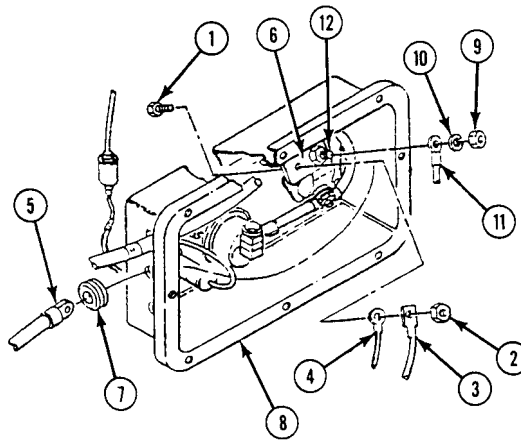
REPLACE MASTER SWITCH PANEL ASSEMBLY — Continued

0246 00

2. INSTALL CIRCUIT 49 LEAD (15) ON BUS BAR (16). SECURE WITH NEW LOCKWASHER (14) AND SCREW (13).



3. INSTALL NEW GROMMET (7) ON CIRCUIT 6 LEAD (5). ROUTE LEAD INTO MASTER SWITCH PANEL (8) AND SECURE GROMMET.

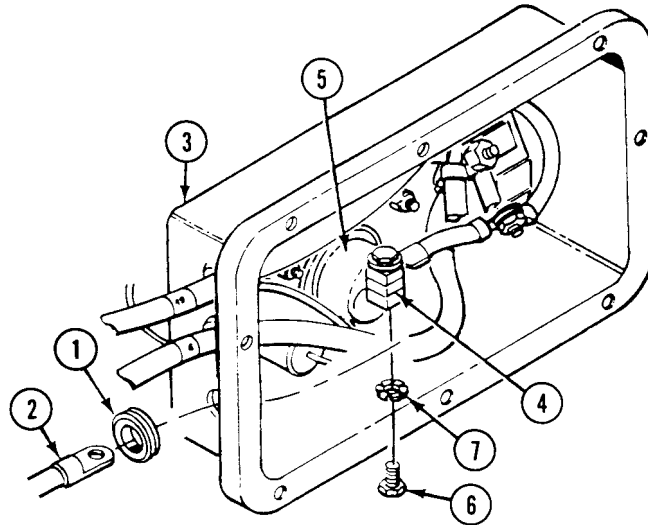


4. INSTALL CIRCUIT 6 LEAD (5), CIRCUIT 2 LEAD (3), AND CIRCUIT 400 LEAD (4) ON CONDUCTOR BUS (6). SECURE WITH SCREW (1) AND NEW LOCKNUT (2).
5. INSTALL CIRCUIT 2A LEAD (11) ON MASTER SWITCH POST (12). SECURE WITH NEW LOCKWASHER (10) AND NUT (9).

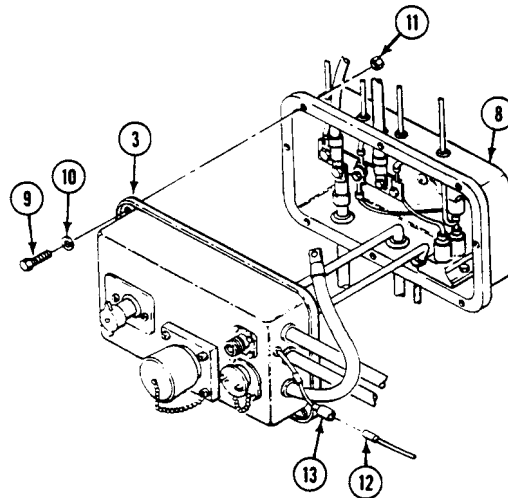
REPLACE MASTER SWITCH PANEL ASSEMBLY — Continued

0246 00

6. INSTALL NEW GROMMET (1) ON GROUND LEAD (2). ROUTE GROUND LEAD INTO MASTER SWITCH PANEL (3) AND SECURE GROMMET.



7. INSTALL GROUND LEAD (2) ON NEGATIVE POST (4) OF AUXILIARY POWER RECEPTACLE (5). SECURE WITH SCREW (6) AND NEW LOCKWASHER (7).
8. INSTALL MASTER SWITCH PANEL (3) ON DISTRIBUTION BOX (8). SECURE WITH EIGHT SCREWS (9), WASHERS (10), AND NEW LOCKNUTS (11).



9. CONNECT CIRCUIT 37 LEAD (12) TO CONNECTOR (13).

10. INSTALL INSTRUMENT WARNING LIGHT PANEL (WP 0269 00).
11. CONNECT BATTERY GROUND STRAP (WP 0237 00).
12. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1.
13. CHECK THAT MASTER SWITCH ON INDICATOR LIGHT COMES ON. See TM 9-2350-366-10-1.
14. TURN MASTER SWITCH OFF. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE INSTRUMENT PANEL ON-OFF SWITCHES**

**0247 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0247 00-1).
- Installation (page 0247 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Battery ground strap disconnected (WP 0237 00)

Materials/Parts

Lockwasher (10)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

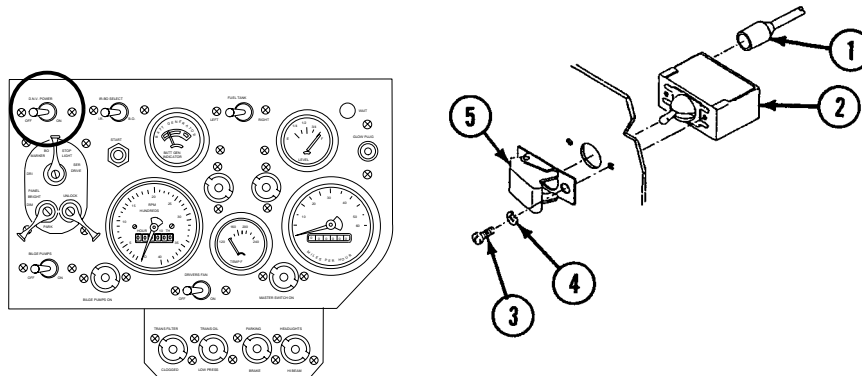
**NOTE**

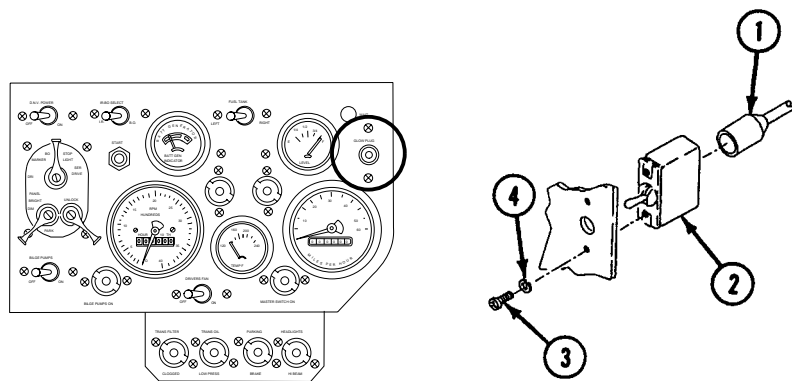
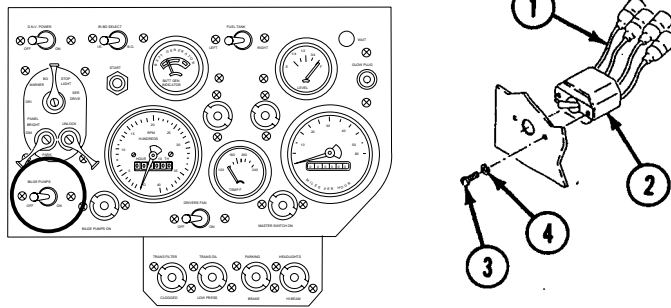
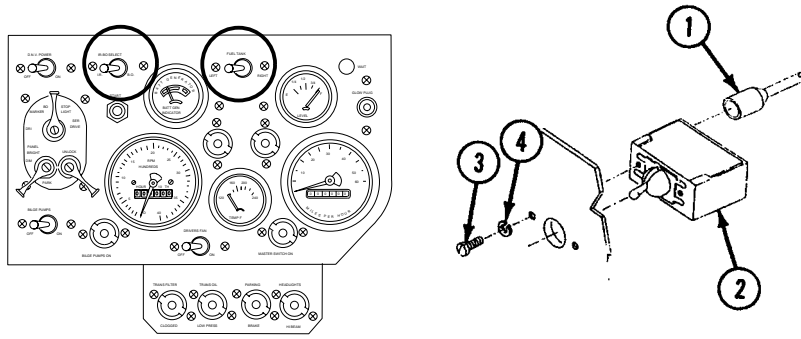
**There are four or five toggle switches on the instrument panel. Replace all toggle switches the same way, except for number of circuit leads, and guard on IR-POWER switch.**

**NOTE**

**Do not disconnect more than one switch at a time. Tag each circuit lead to make sure you reconnect to correct contacts. See applicable wiring diagram at end of this manual.**

1. DISCONNECT CIRCUIT LEADS (1) FROM REAR OF SWITCH (2).

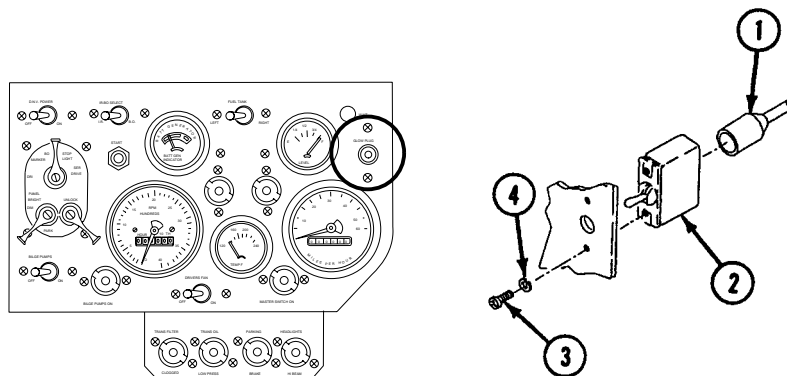
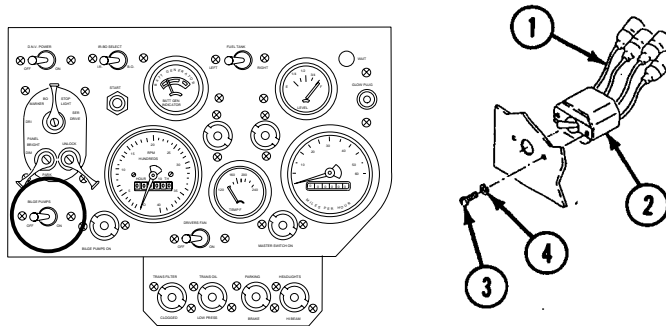
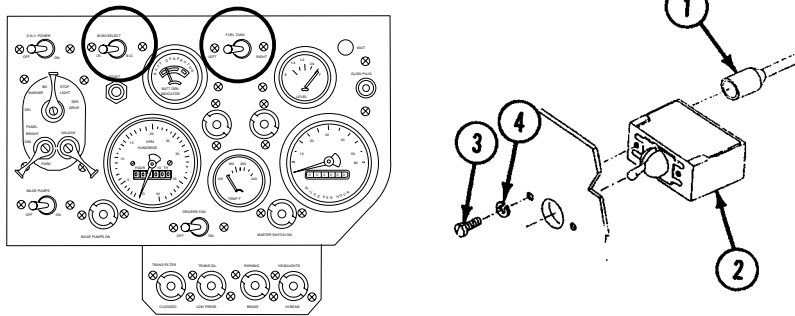
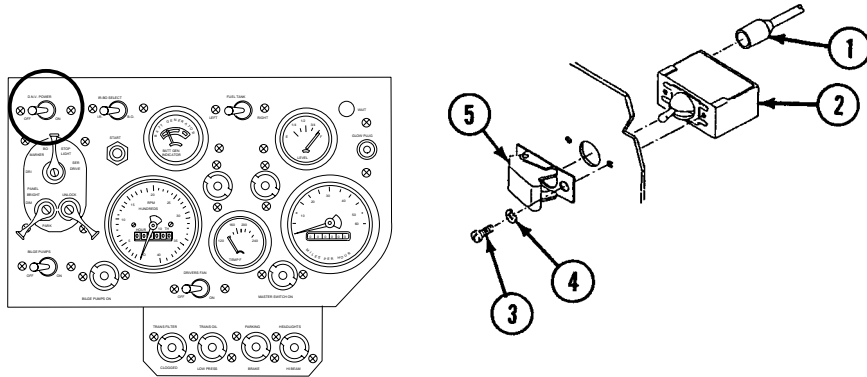




2. REMOVE TWO SCREWS (3), LOCKWASHERS (4), TOGGLE SWITCH (2), AND GUARD (5) (IR-POWER SWITCH ONLY) FROM INSTRUMENT PANEL. DISCARD LOCKWASHERS.

**INSTALLATION**

1. INSTALL TOGGLE SWITCH (2) ON REAR OF INSTRUMENT PANEL. SECURE WITH GUARD (5) (IR-POWER SWITCH ONLY), TWO NEW LOCKWASHERS (4), AND SCREWS (3).



**NOTE**

**Make sure circuit leads are connected to correct switches. See applicable wiring diagram.**

2. CONNECT CIRCUIT LEADS (1) TO REAR OF TOGGLE SWITCH (2).
3. CONNECT BATTERY GROUND STRAP (WP 0237 00).
4. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1.
5. ACTUATE SWITCH AND CHECK FOR PROPER OPERATION OF APPLICABLE ITEM. See TM 9-2350-366-10-1.
6. TURN MASTER SWITCH OFF. See TM 9-2350-366-10-1.

**END OF TASK**



**REPLACE MAIN LIGHT SWITCH**

**0248 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0248 00-1).  
 Installation (page 0248 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Battery ground strap disconnected (WP 0237 00)  
 Instrument panel removed (WP 0220 00)

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Personnel Required

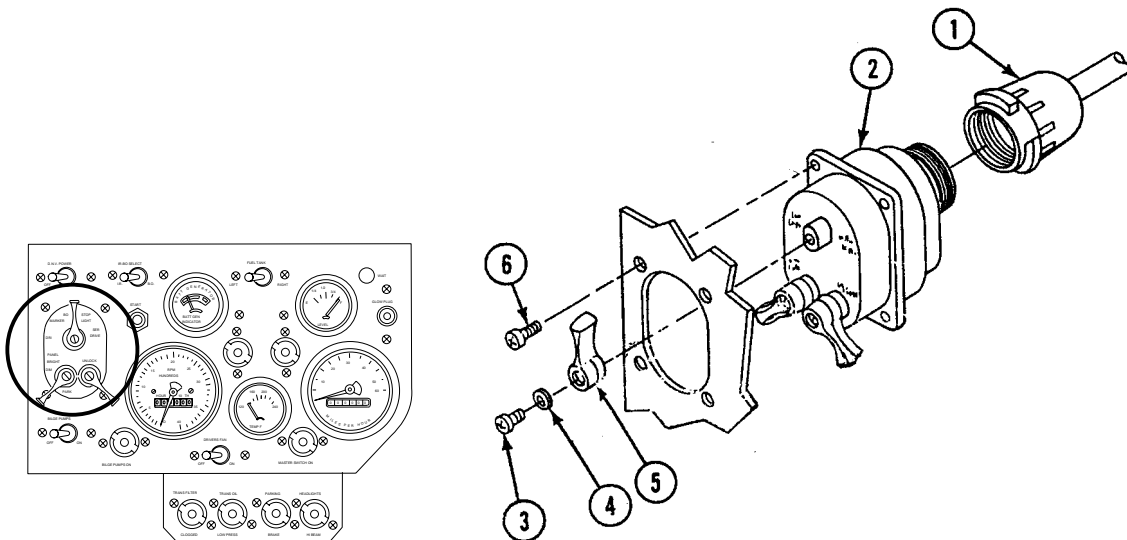
Unit Mechanic 63T10

References

TM 9-2350-366-10-1

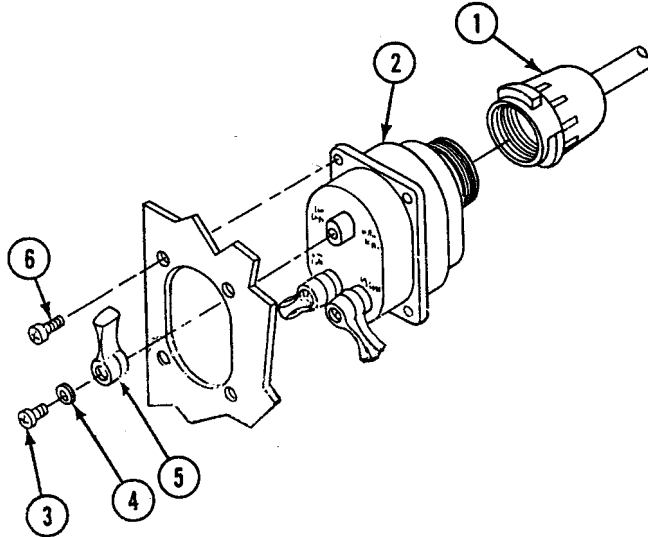
**REMOVAL**

1. DISCONNECT CABLE (1) FROM MAIN LIGHT SWITCH (2).
2. REMOVE SCREW (3), WASHER (4), AND SWITCH LEVER (5) FROM LIGHT SWITCH (2).
3. REMOVE FOUR SCREWS (6) AND LIGHT SWITCH (2) FROM INSTRUMENT PANEL.



**INSTALLATION**

1. INSTALL MAIN LIGHT SWITCH (2) IN REAR OF INSTRUMENT PANEL WITH FOUR SCREWS (6).
2. INSTALL SWITCH LEVER (5) ON LIGHT SWITCH (2) WITH WASHER (4) AND SCREW (3).
3. CONNECT CABLE (1) TO REAR OF LIGHT SWITCH (2).



4. INSTALL INSTRUMENT PANEL (WP 0220 00).
5. CONNECT BATTERY GROUND STRAP (WP 0237 00).
6. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1.
7. CHECK FOR PROPER OPERATION OF LIGHT SWITCH. See TM 9-2350-366-10-1.
8. TURN MASTER SWITCH OFF. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE ENGINE START SWITCH**

**0249 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0249 00-1).
- Installation (page 0249 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

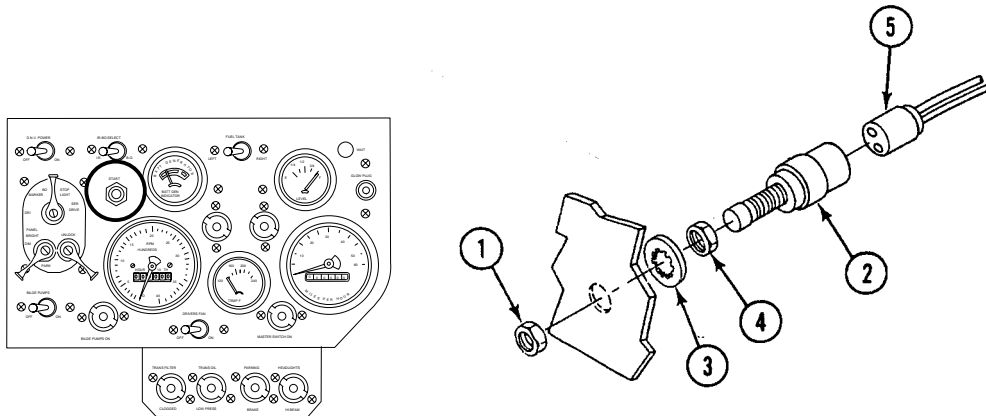
- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Battery ground strap disconnected (WP 0237 00)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

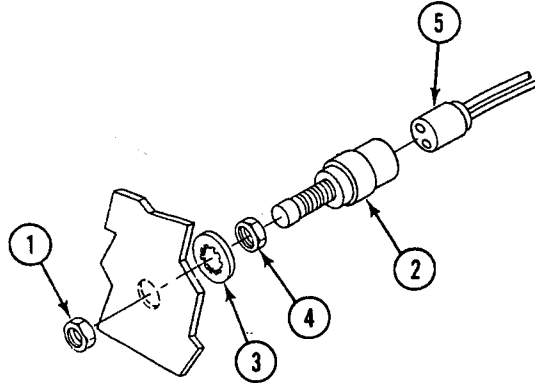
1. REMOVE NUT (1) AND START SWITCH (2) FROM INSTRUMENT PANEL.



2. REMOVE LOCK WASHER (3) AND NUT (4) FROM START SWITCH (2).
3. DISCONNECT CIRCUIT 14/74 CONNECTOR (5) FROM REAR OF START SWITCH (2).

**INSTALLATION**

1. CONNECT CIRCUIT 14/74 CONNECTOR (5) TO REAR OF START SWITCH (2).



2. INSTALL NUT (4) AND LOCK WASHER (3) ON START SWITCH (2).
3. INSTALL START SWITCH (2) THROUGH REAR OF INSTRUMENT PANEL. SECURE WITH TWO NUTS (1) AND (4).
4. CONNECT BATTERY GROUND STRAP (WP 0237 00).
5. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1.
6. CRANK ENGINE TO CHECK FOR PROPER INSTALLATION OF STARTER SWITCH. See TM 9-2350-366-10-1.
7. TURN MASTER SWITCH OFF. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE HORN SWITCH**

**0250 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0250 00-1).
- Installation (page 0250 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Battery ground strap disconnected (WP 0237 00)

Personnel Required

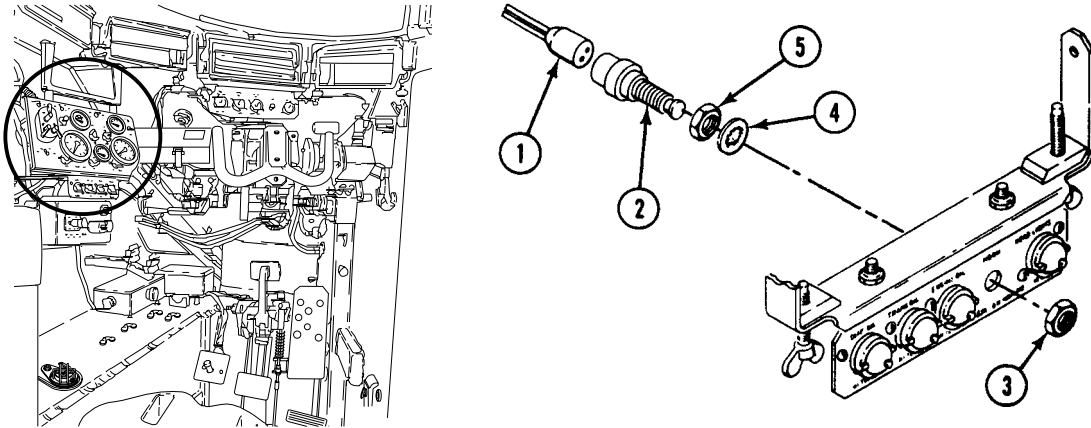
Unit Mechanic 63T10

**REMOVAL**

**NOTE**

**Two nuts and lockwashers come with new switch.**

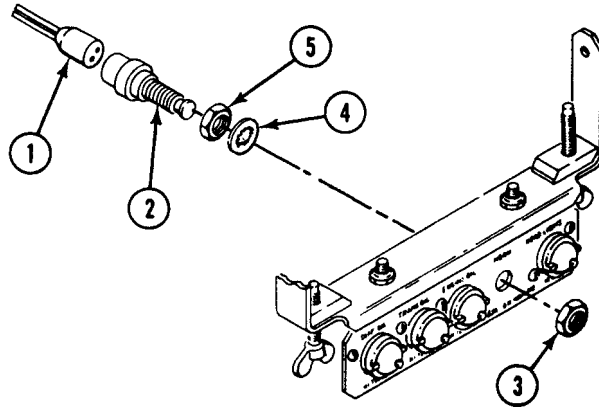
1. DISCONNECT CIRCUIT 25/25A CONNECTOR (1) FROM REAR OF HORN SWITCH (2).



2. REMOVE NUT (3) AND HORN SWITCH (2) FROM WARNING LIGHT PANEL.
3. REMOVE LOCKWASHER (4) AND NUT (5) FROM HORN SWITCH (2).

**INSTALLATION**

1. INSTALL NUT (5) AND LOCKWASHER (4) ON HORN SWITCH (2).



2. INSTALL HORN SWITCH THROUGH REAR OF WARNING LIGHT PANEL WITH NUT (3).
3. CONNECT CIRCUIT 25/25A CONNECTOR (1) TO REAR OF HORN SWITCH (2).
4. CONNECT BATTERY GROUND STRAP (WP 0237 00).
5. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1.
6. PRESS HORN SWITCH TO CHECK FOR PROPER OPERATION. See TM 9-2350-366-10-1.
7. TURN MASTER SWITCH OFF. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE CREW FAN SWITCH AND CIRCUIT BREAKER**

**0251 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0251 00-1).  
 Installation (page 0251 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)  
 Torque wrench, 3/8 inch drive, 0-150 in-lb  
 (WP 0397 00, Item 77)

References

TM 9-2350-366-10-1

Materials/Parts

Locknut  
 Switch  
 Circuit breaker

Equipment Condition

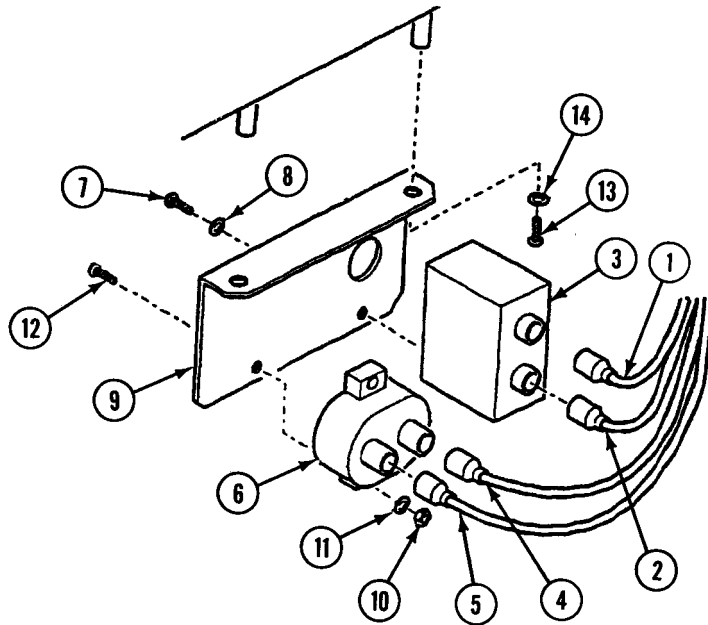
Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Battery ground strap disconnected (WP 0237 00)

**REMOVAL**

**NOTE**

**Ensure all cable connectors have legible marking bands for assembly purposes.**

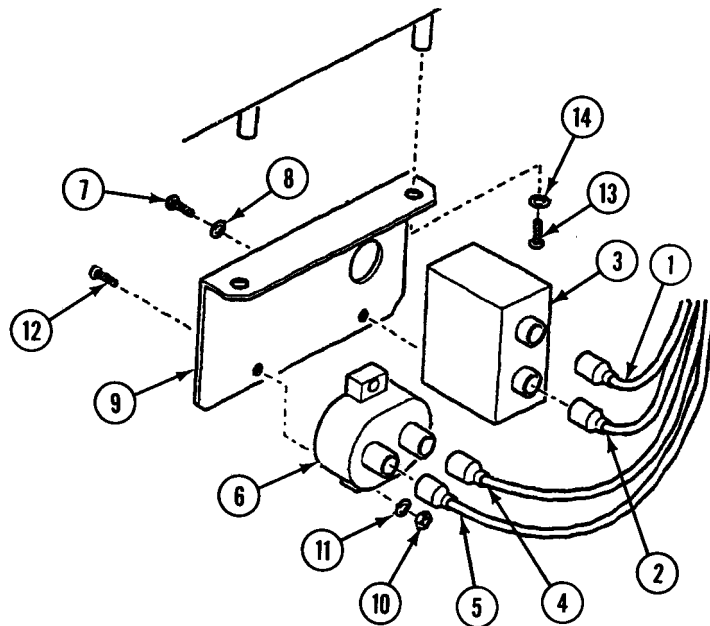
1. UNPLUG CONNECTORS 59A (1) AND 59B (2) FROM FAN SWITCH (3).



2. UNPLUG CONNECTORS 59B (4) AND 59 (5) FROM CIRCUIT BREAKER (6).
3. REMOVE TWO SCREWS (7) AND TWO WASHERS (8) FROM SWITCH (3). REMOVE SWITCH FROM PANEL (9).
4. REMOVE TWO LOCKNUTS (10), TWO WASHERS (11) AND TWO SCREWS (12) FROM CIRCUIT BREAKER (6). REMOVE CIRCUIT BREAKER FROM SWITCH PANEL (9). DISCARD LOCKNUTS
5. REMOVE TWO SCREWS (13) AND TWO WASHERS (14) FROM SWITCH PANEL (9). REMOVE SWITCH PANEL

**INSTALLATION**

1. INSTALL SWITCH PANEL (9) TWO WASHERS (14) AND TWO SCREWS (13).



2. TORQUE SCREWS (13) TO 7.5 FT-LB.
3. INSTALL NEW CIRCUIT BREAKER (6) ON SWITCH PANEL (9) WITH TWO SCREWS (12), TWO WASHERS (11) AND NEW SELF-LOCKING NUTS (10). TIGHTEN NUTS.
4. INSTALL NEW SWITCH (3) ON SWITCH PANEL (9) WITH TWO WASHERS (8) AND TWO SCREWS (7). TIGHTEN SCREWS.
5. PLUG CONNECTORS 59A (1) AND 59B (2) INTO CORRESPONDING CONNECTORS OF FAN SWITCH (3).
6. PLUG CONNECTORS 59B (4) AND 59 (5) INTO CORRESPONDING CONNECTORS OF CIRCUIT BREAKER (6).
7. CONNECT BATTERY GROUND STRAP (WP 0237 00).

**END OF TASK**



**REMOVE/REPLACE DRIVER'S HATCH SWITCH 1S9**

**0252 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0252 00-1).
- Installation (page 0252 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Vehicle master power OFF (TM 9-2350-366-10-1)
- Battery ground strap disconnected (WP 0237 00)

Materials/Parts

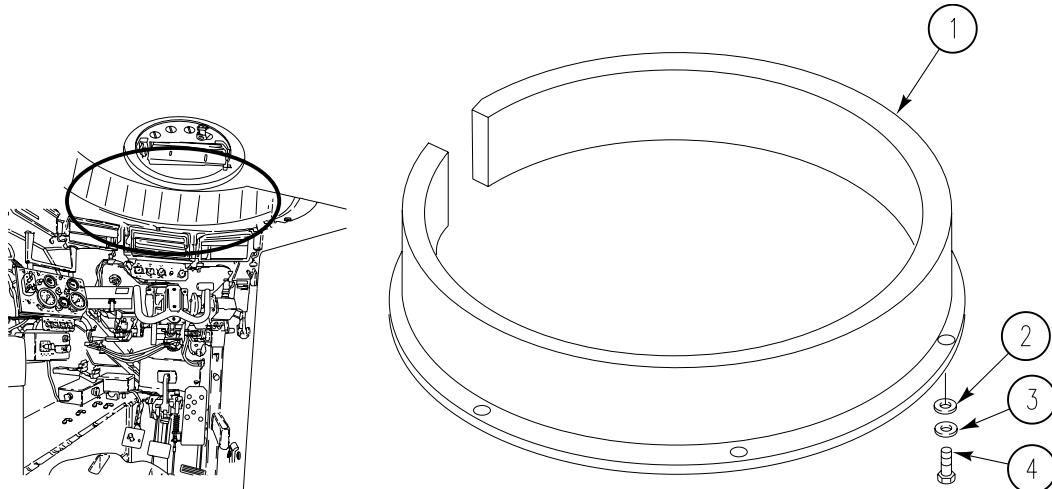
- Lock washer
- Switch
- Clamp

Personnel Required

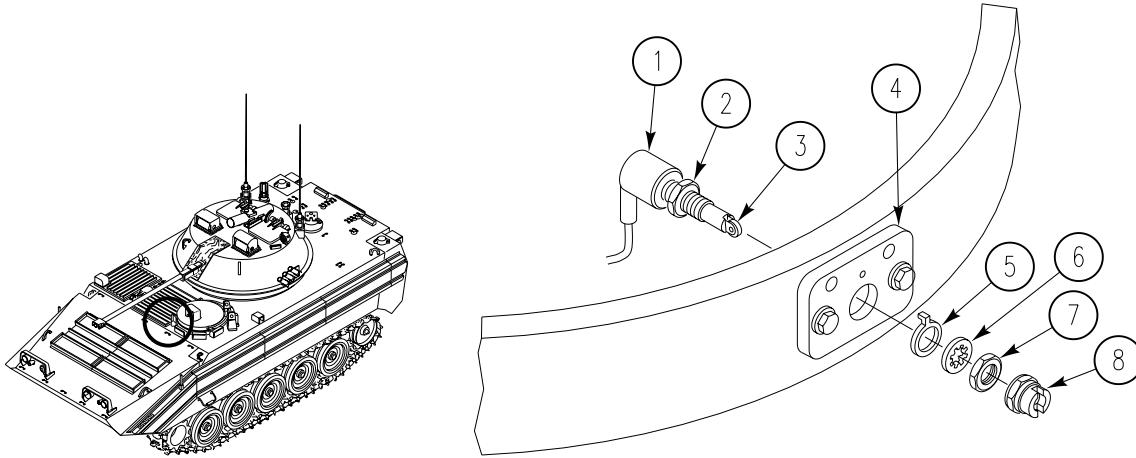
Unit Mechanic 63T10

**REMOVAL**

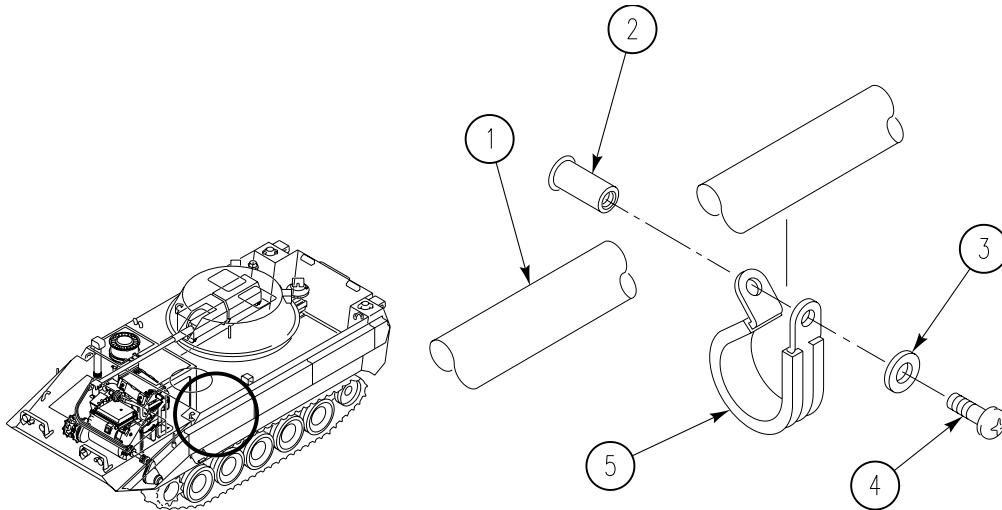
1. REMOVE SIX SCREWS (4), LOCK WASHERS (3), WASHERS (2), AND CUSHIONING PAD (1) FROM HATCH OPENING. DISCARD LOCK WASHERS.



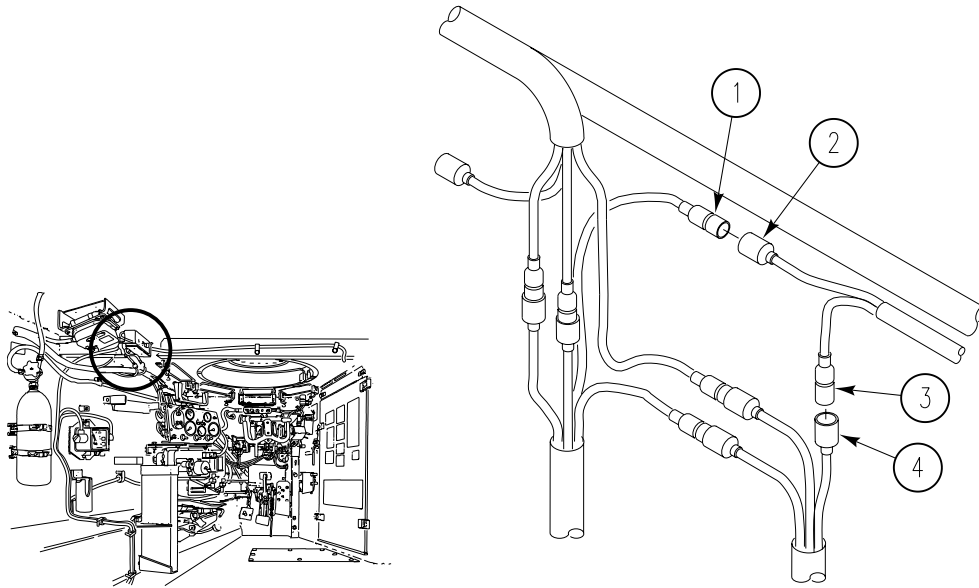
2. REMOVE AZIMUTH LOCKING NUT ASSEMBLY (8), NUT (7), LOCK WASHER (6), KEY WASHER (5), AND SWITCH (1) FROM PLATE (4).



3. REMOVE TWO SCREWS (4), WASHERS (3), AND CLAMPS (5) SECURING SWITCH HARNESS (1) TO CARRIER (2).

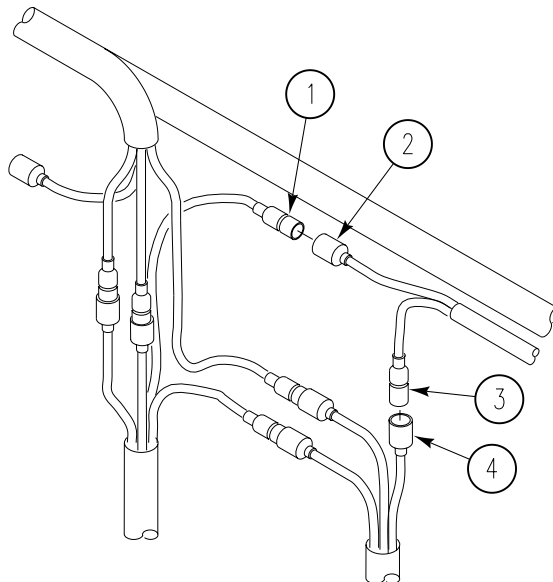


4. DISCONNECT PLUG 1S9P1 (2) FROM PLUG 1W2P3 (1) AND PLUG 1S9P2 (3) FROM PLUG 1S6P2 (4).
5. REMOVE 1S9 HARNESS (2)(3) FROM CARRIER.

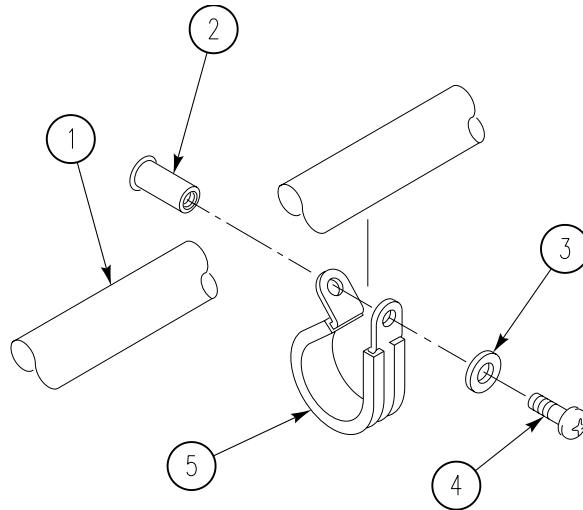


**INSTALLATION**

1. INSTALL 1S9 HARNESS (2)(3) IN CARRIER.  
 CONNECT PLUG 1W2 P3 (1) TO PLUG 1S9 P1 (2)  
 CONNECT PLUG 1S6 P2 (4) TO PLUG 1S9 P2 (3)



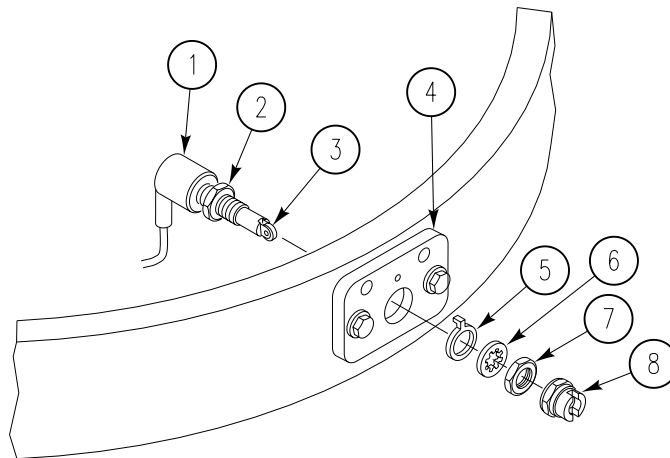
2. SECURE 1S9 SWITCH HARNESS (1) TO CARRIER (2) WITH TWO SCREWS (4), WASHERS (3), AND CLAMPS (5).



**NOTE**

**Azimuth locking nut assembly is installed after switch wheel alignment.**

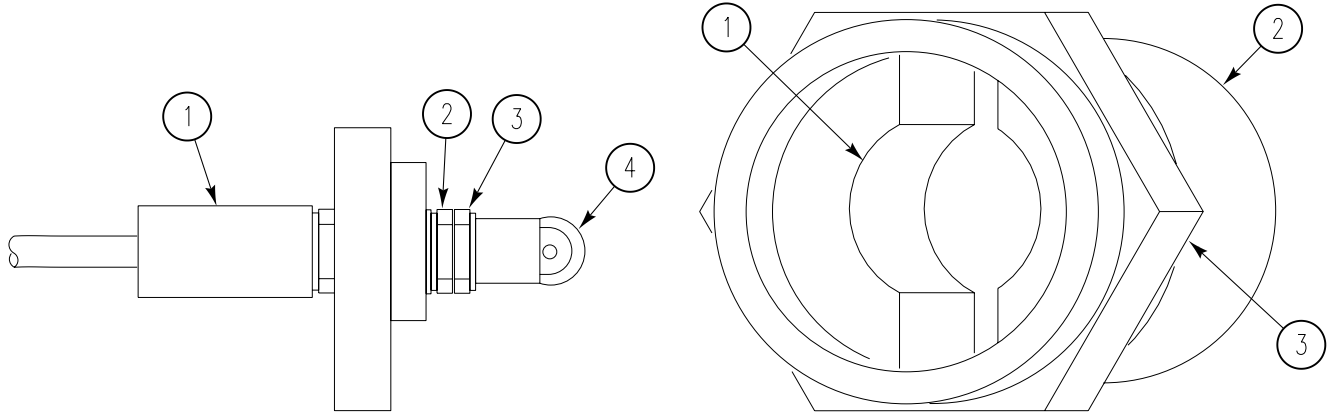
3. INSERT NEW SWITCH (1) WITH NUT (2) THROUGH HATCH OPENING AND SWITCH PLATE (4).
4. INSTALL KEY WASHER (5) LOCK WASHER (6), AND NUT (7) ON SWITCH (1)
5. ADJUST TWO NUTS (2) AND (7) UNTIL SWITCH WHEEL (3) MAKES CONTACT WITH HATCH COVER WHEN COVER IS CLOSED.



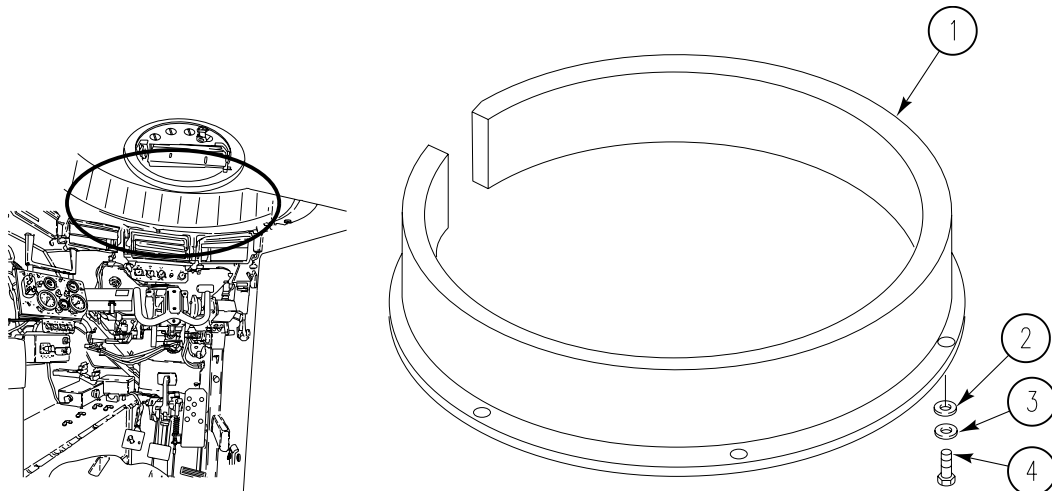
**NOTE**

Azimuth locking nut assembly is properly installed when tab of plate is in key and bushing will not turn.

6. ALIGN SWITCH WHEEL (4).



- a. Turn switch wheel (4) until wheel is aligned up and down.
  - b. Install azimuth locking nut assembly (3) on switch (1) with tab of plate (1) aligned with keyway. Plate is aligned properly when bushing (2) does not turn with locking nut (2).
  - c. Tighten azimuth locking nut assembly (3) against locking nut (2).
7. INSTALL CUSHIONING PAD (1) IN HATCH OPENING. SECURE WITH SIX WASHERS (2), NEW LOCK WASHERS (3), AND SCREWS (4).



**END OF TASK**



**REMOVE/REPLACE DRIVER'S HATCH SWITCH 1S6**

**0253 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0253 00-1).
- Installation (page 0253 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Vehicle master power OFF (TM 9-2350-366-10-1)
- Battery ground strap disconnected (WP 0237 00)

Materials/Parts

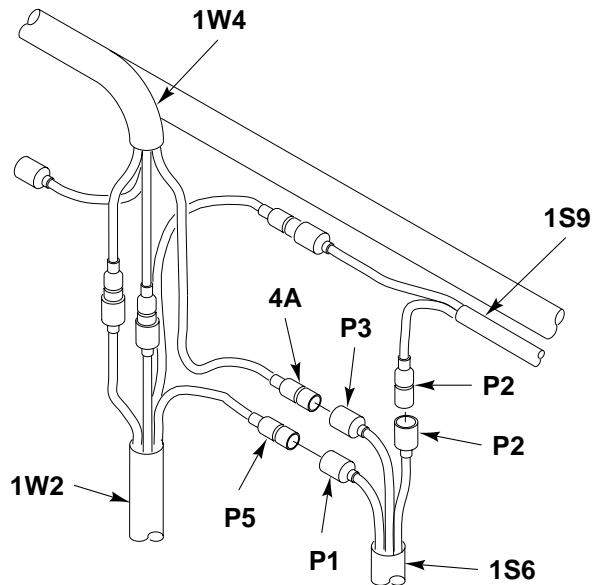
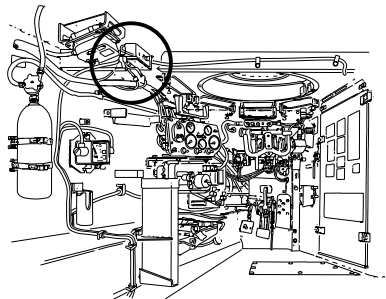
- Lockwasher
- Switch
- Clamp

Personnel Required

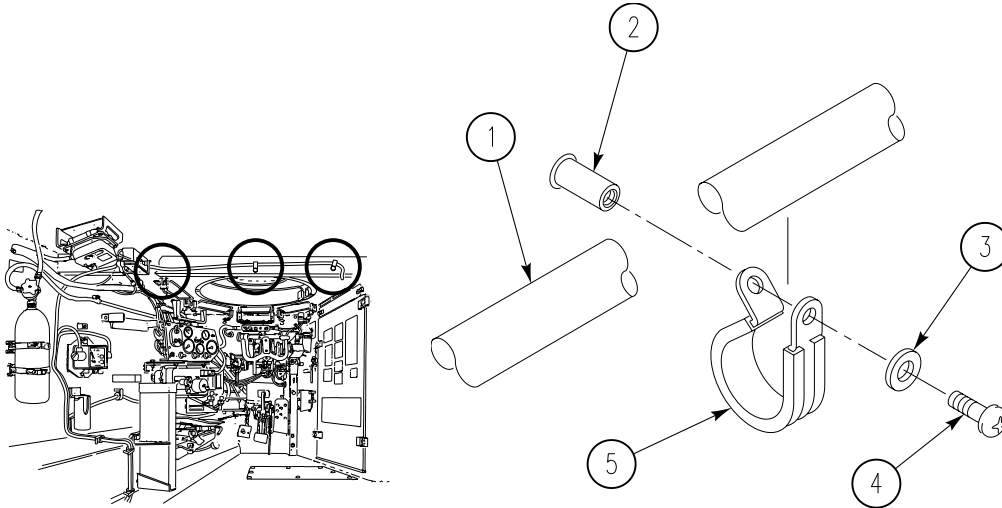
Unit Mechanic 63T10

**REMOVAL**

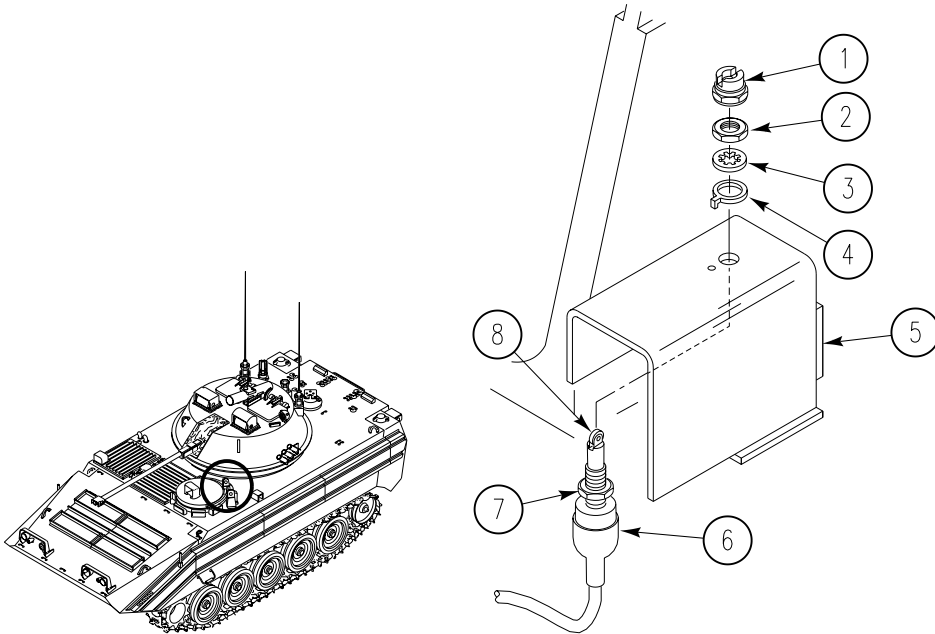
1. DISCONNECT THREE 1S6 PLUGS FROM THREE PLUGS AS FOLLOWS:  
 1S6 **P1** FROM 1W2 **P5**  
 1S6 **P2** FROM 1S9 **P2**  
 1S6 **P3** FROM 1W4 **4A**



2. REMOVE THREE SCREWS (4), WASHERS (3), AND CLAMPS (5) SECURING SWITCH HARNESS (1) TO SUPPORT CHANNEL (2) ON ROOF OF CARRIER.



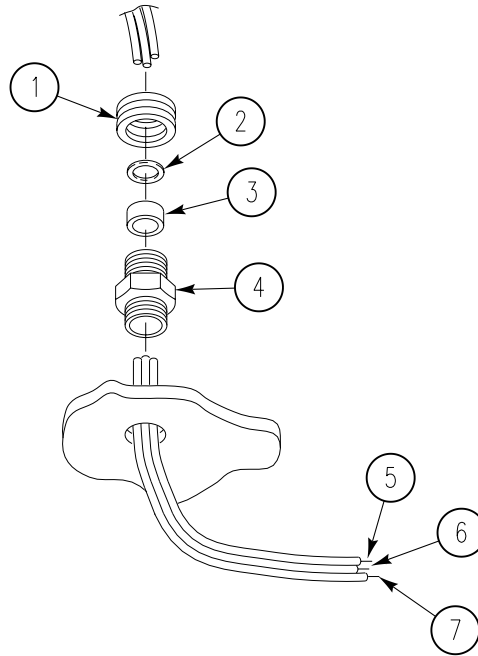
3. REMOVE AZIMUTH LOCKING NUT ASSEMBLY (1), NUT (2), LOCKWASHER (3), KEY WASHER (4), AND SWITCH (6) FROM BRACKET (5).



4. LOOSEN NUT (1) THAT SECURES THREE LEADS (5), (6), AND (7), WITH RUBBER BUSHING (3) IN CONNECTOR (4). SEPARATE NUT AND WASHER (2) FROM CONNECTOR.

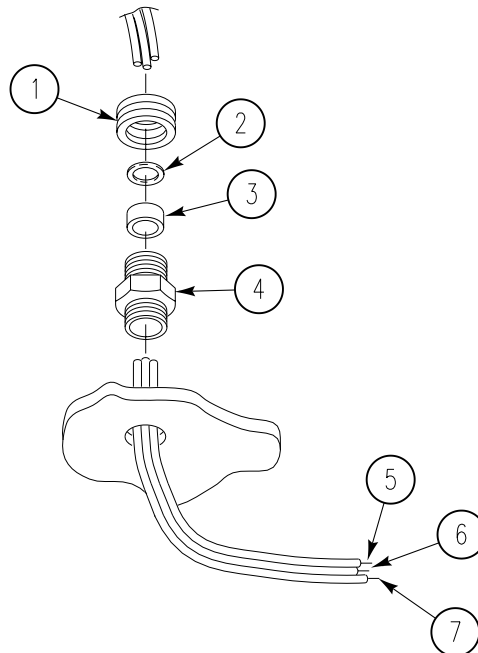


5. REMOVE CONNECTOR (4) AND HARNESS FROM TOP OF CARRIER.

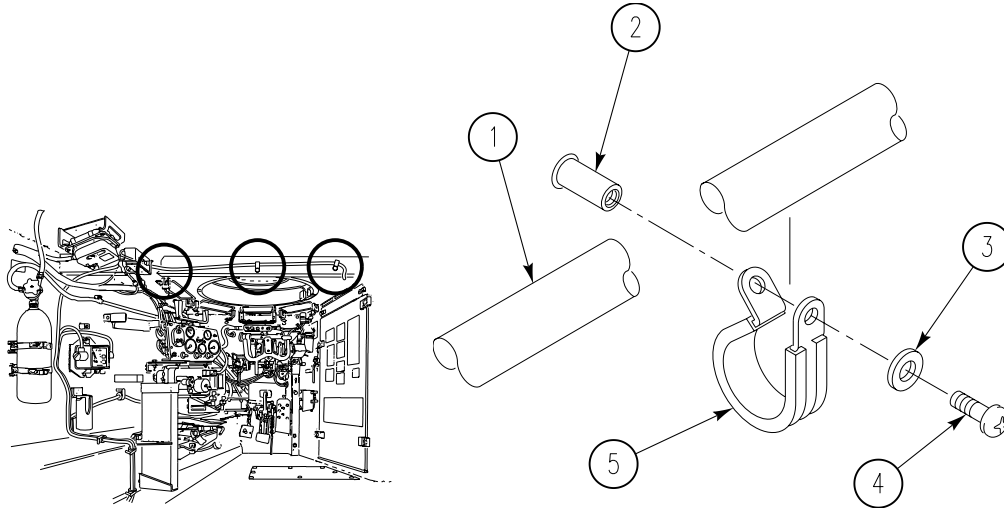


### INSTALLATION

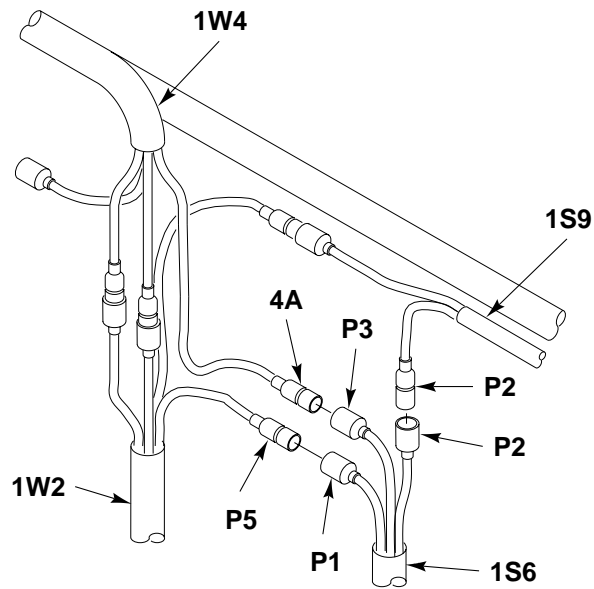
1. FROM OUTSIDE CARRIER ROUTE THREE LEADS (5), (6), AND (7), THROUGH HOLE IN TOP OF CARRIER.
2. INSTALL CONNECTOR (4) IN TOP OF CARRIER. SECURE RUBBER BUSHING (3) IN CONNECTOR WITH NUT (1) AND WASHER (2).



3. INSTALL 1S6 SWITCH HARNESS (1) TO SUPPORT CHANNEL (2) ON ROOF OF CARRIER WITH THREE SCREWS (4), NEW LOCKWASHERS (3), AND CLAMPS (5).



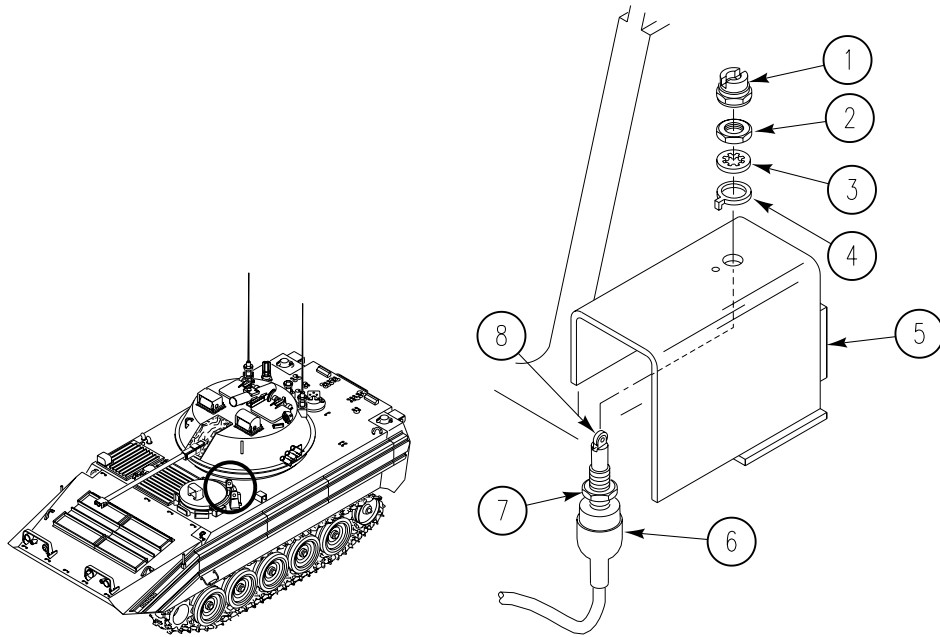
4. CONNECT THREE 1S6 PLUGS TO THREE PLUGS AS FOLLOWS:  
 1S6 P1 TO 1W2 P5  
 1S6 P2 TO 1S9 P2  
 1S6 P3 TO 1W4 4A



**NOTE**

**Azimuth locking nut assembly is installed after switch wheel alignment.**

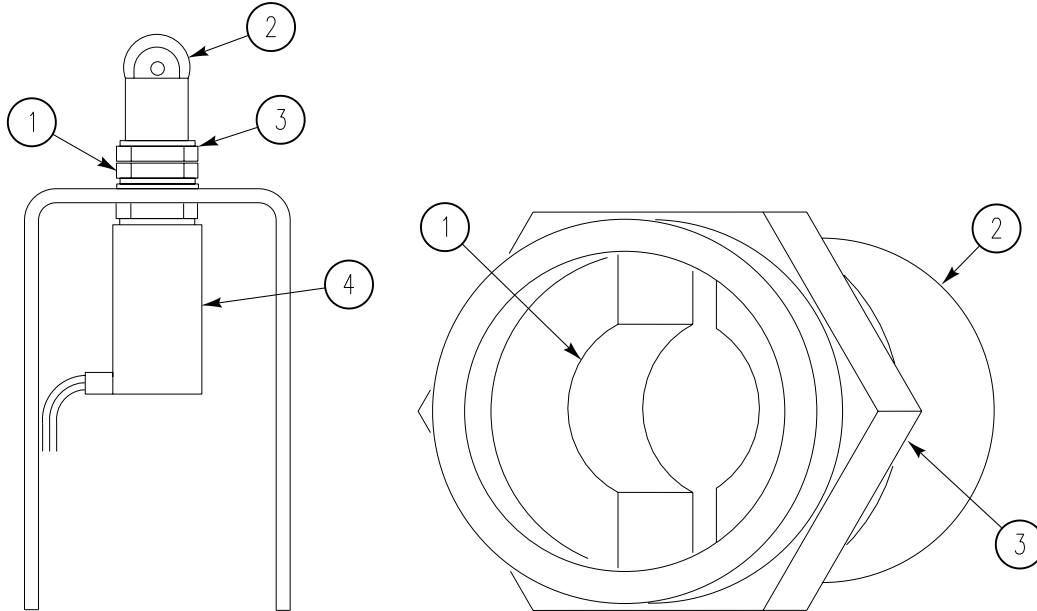
5. INSERT NEW SWITCH (6) WITH NUT (7) THROUGH SWITCH BRACKET (5) AND INSTALL KEY WASHER (4) NEW LOCKWASHER (3) AND NUT (2) ON SWITCH.
6. ADJUST TWO NUTS (2) AND (7) UNTIL SWITCH WHEEL (8) MAKES CONTACT WITH HATCH COVER WHEN COVER IS CLOSED.



**NOTE**

Azimuth locking nut assembly is properly installed when tab of plate is in key and bushing will not turn.

## 7. ALIGN SWITCH WHEEL (2).



- a. Turn switch wheel (2) until wheel is aligned up and down.
- b. Install azimuth locking nut assembly (3) on switch (4) with tab of plate (1) aligned with keyway. Plate is aligned properly when bushing (2) does not turn with locking nut (1).
- c. Tighten azimuth locking nut assembly (3) against locking nut (1).

**END OF TASK**

**REPLACE TRANSMISSION OIL HIGH TEMPERATURE SWITCH**

**0254 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0254 00-1).  
 Installation (page 0254 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

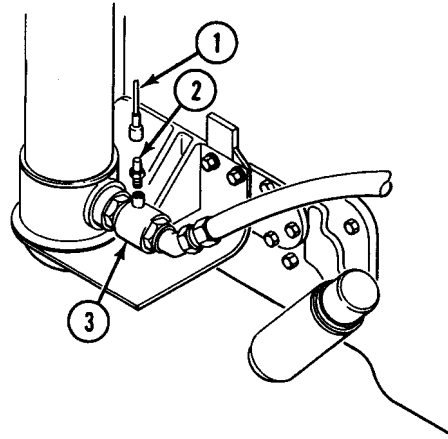
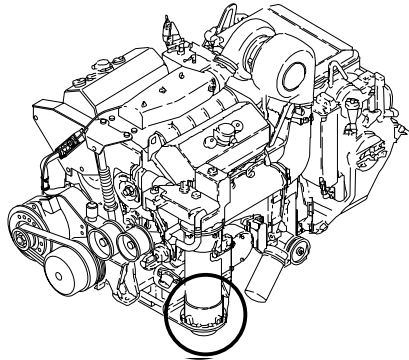
Sealing compound (WP 0399 00, Item 55)  
 Thermostatic switch

Equipment Condition

Power plant removed (WP 0106 00)

**REMOVAL**

1. DISCONNECT CIRCUIT 327 LEAD (1) FROM SWITCH (2).
2. REMOVE SWITCH (2) FROM TEE (3).



**INSTALLATION**

1. APPLY SEALING COMPOUND TO THREADS OF SWITCH (2).
2. INSTALL SWITCH (2) IN TEE (3).
3. CONNECT CIRCUIT 327 LEAD (1) TO SWITCH (2).
4. INSTALL POWER PLANT (WP 0106 00).

**END OF TASK**



**REPLACE GENERATOR FIELD PRESSURE SWITCH**

**0255 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0255 00-1)  
 Installation (page 0255 00-2)

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Front VISMOD access doors removed (WP 0307 00)  
 Engine access cover plate removed (WP 0308 00)

Materials/Parts

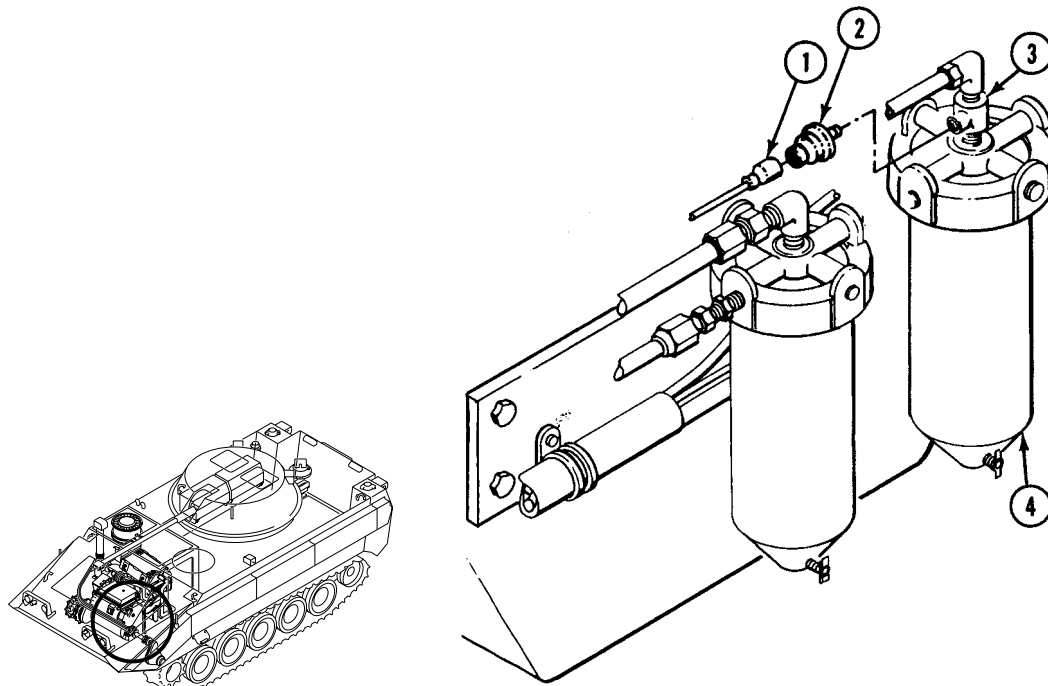
Sealing compound (WP 0399 00, Item 55)

Personnel Required

Unit Mechanic 63T10

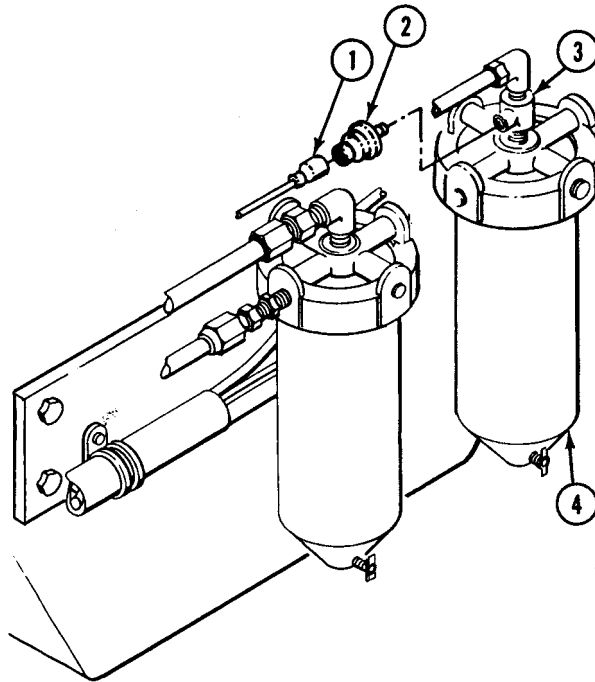
**REMOVAL**

1. DISCONNECT CIRCUIT 1A/1B LEAD (1) FROM GENERATOR FIELD SWITCH (2).
2. REMOVE SWITCH (2) FROM TEE (3) ON SECONDARY FUEL FILTER (4).
3. CHECK CIRCUIT LEAD. REPLACE WORN OR CRACKED LEAD AND DAMAGED CONNECTOR (WP 0189 00).



**INSTALLATION**

1. COAT THREADS OF SWITCH WITH SEALING COMPOUND.
2. INSTALL SWITCH (2) ON TEE (3) ON SECONDARY FUEL FILTER (4).
3. CONNECT CIRCUIT 1A/1B LEAD (1) TO SWITCH (2).



4. CHECK OPERATION OF FIELD SWITCH (WP 0016 00).
5. INSTALL ENGINE ACCESS COVER PLATE (WP 0308 00).
6. INSTALL FRONT VISMOD ACCESS DOORS (WP 0307 00).

**END OF TASK**



**REPLACE STARTER RELAY SWITCH**

**0256 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0256 00-1).  
 Installation (page 0256 00-5).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Driver's power plant access panel removed (WP 0312 00)  
 Power plant rear access panels removed (WP 0309 00)  
 Battery ground strap disconnected (WP 0237 00)  
 Secondary fuel filter removed (WP 0133 00)

Materials/Parts

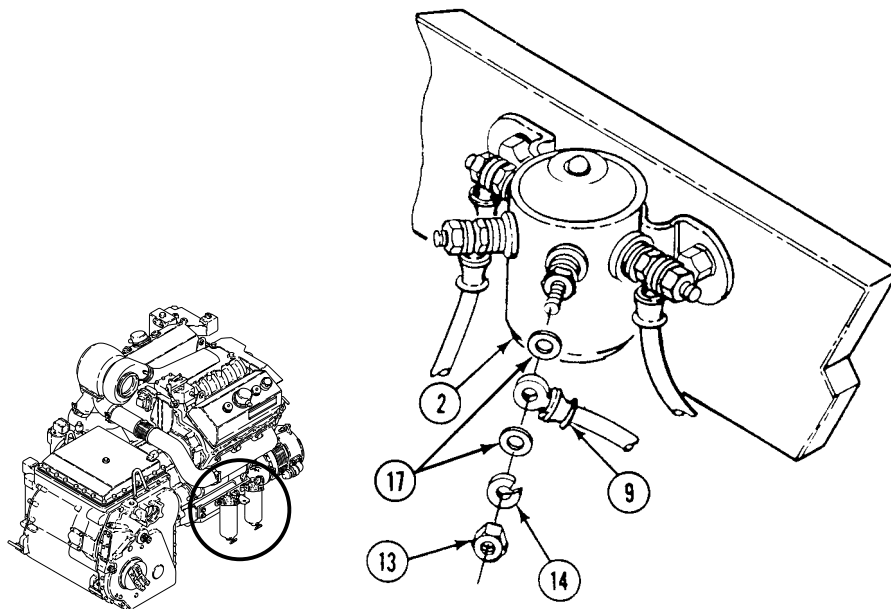
Locknut (2)  
 Lockwasher

Personnel Required

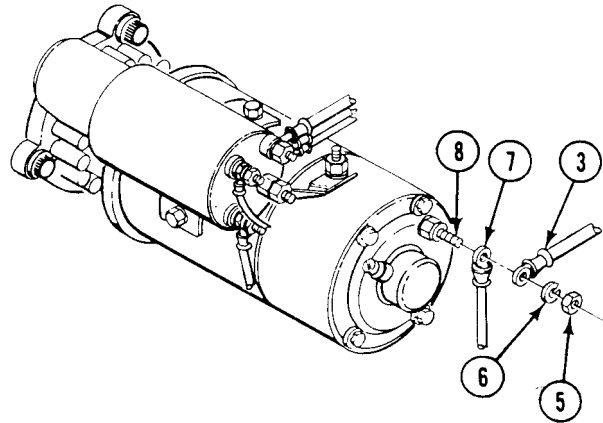
Unit Mechanic 63T10

**REMOVAL**

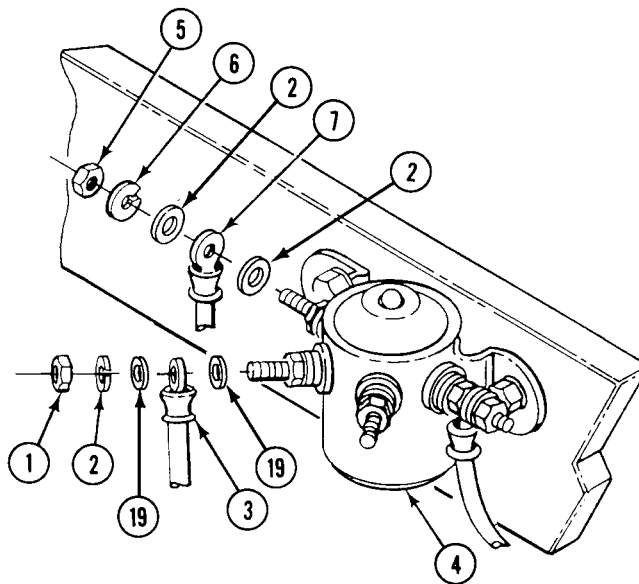
1. REMOVE NUT (13), LOCKWASHER (14), TWO WASHERS (17), AND CIRCUIT LEAD 74A (9) FROM RELAY SWITCH (2).



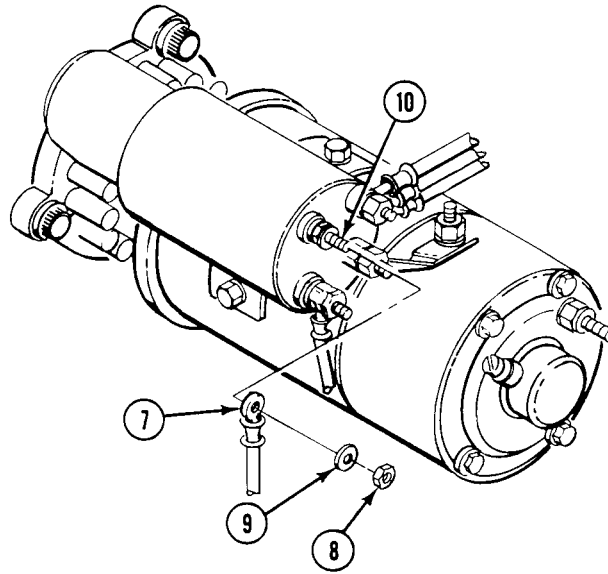
2. REMOVE NUT (5), WASHER (6), LEAD 74A (3), AND GROUND LEAD (7) FROM STARTER GROUND TERMINAL (8).



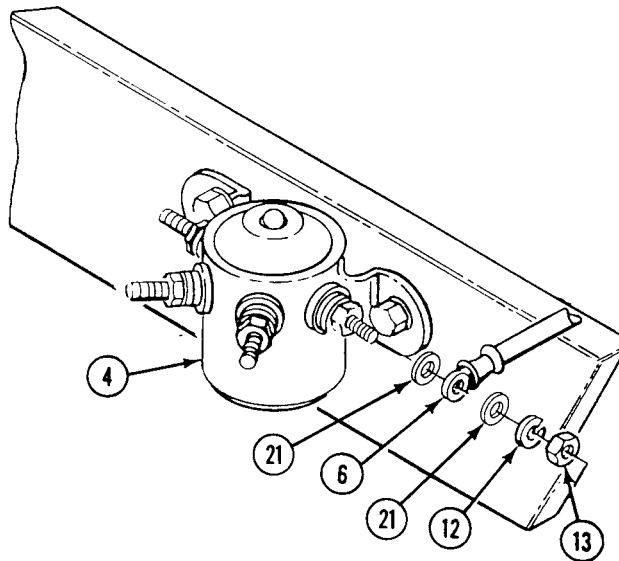
3. REMOVE NUT (1), LOCKWASHER (2), TWO WASHERS (19), AND CIRCUIT LEAD 74 (3) FROM RELAY SWITCH (4). DISCARD LOCKWASHERS.
4. REMOVE NUT (5), LOCKWASHER (6), TWO WASHERS (2), AND CIRCUIT LEAD 74D (7) FROM RELAY SWITCH (4). DISCARD LOCKWASHER.



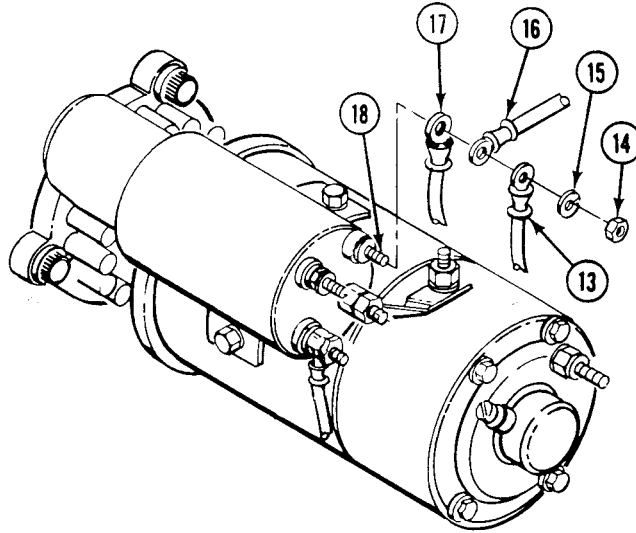
5. REMOVE NUT (8), WASHER (9), AND CIRCUIT LEAD 74D (7) FROM SOLENOID SWITCH TERMINAL (10).



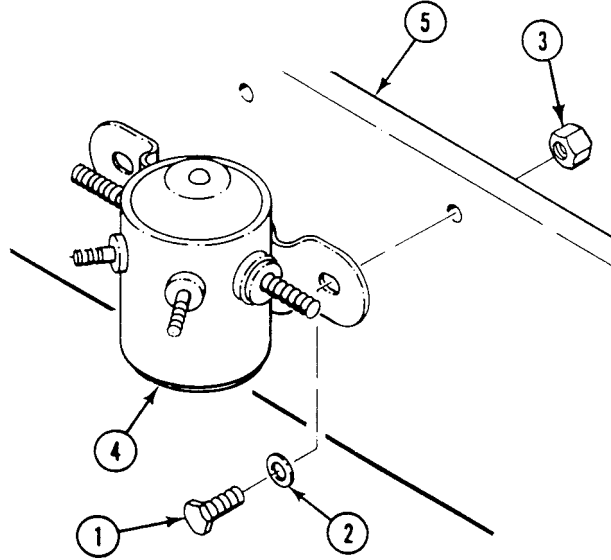
6. REMOVE NUT (13), LOCKWASHER (12), TWO WASHERS (21), AND CIRCUIT LEAD 74C (6) FROM RELAY SWITCH (4). DISCARD LOCKWASHER.



7. REMOVE NUT (14), LOCKWASHER (15), AND CIRCUIT LEADS 74C (13), 6 (16), AND 6A (17) FROM SOLENOID BATTERY TERMINAL (18). DISCARD LOCKWASHER.

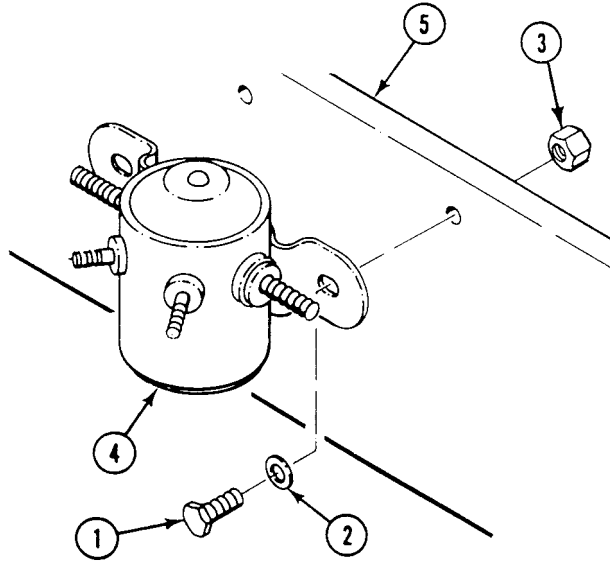


8. REMOVE TWO SCREWS (1), WASHERS (2), AND LOCKNUTS (3) FROM STARTER RELAY SWITCH (4) AND BRACKET (5). REMOVE RELAY SWITCH. DISCARD LOCKNUTS.

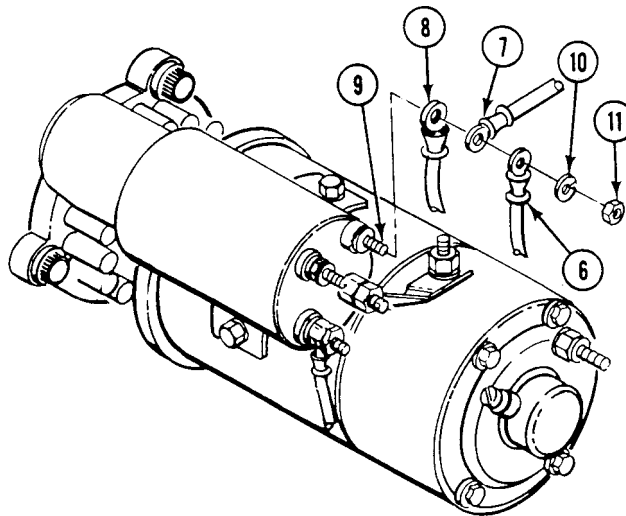


**INSTALLATION**

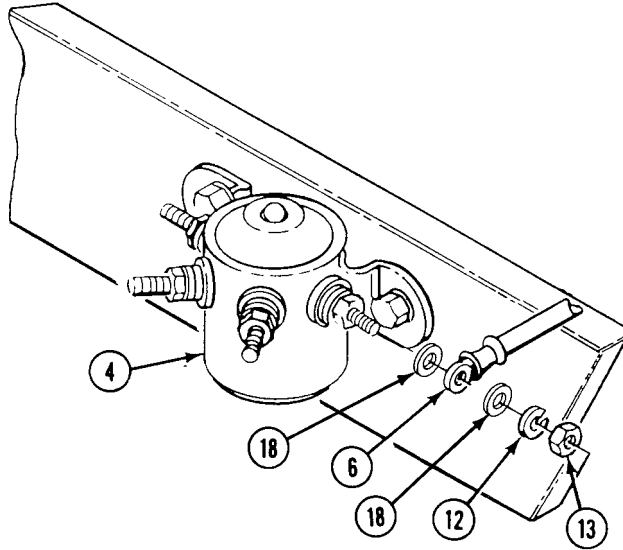
1. POSITION STARTER RELAY SWITCH (4) ON BRACKET (5). SECURE SWITCH WITH TWO SCREWS (1), WASHERS (2), AND NEW LOCKNUTS (3).



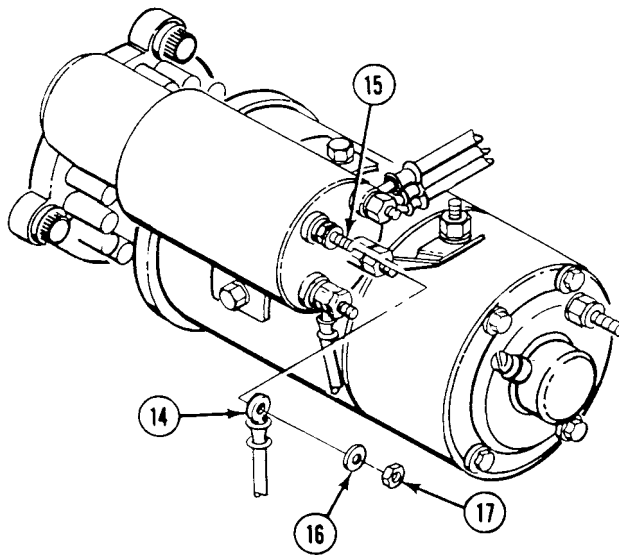
2. INSTALL CIRCUIT LEADS 74C (6), 6 (7), AND 6A (8), ON STARTER SOLENOID BATTERY TERMINAL (9). SECURE LEADS WITH NEW LOCKWASHER (10) AND NUT (11).



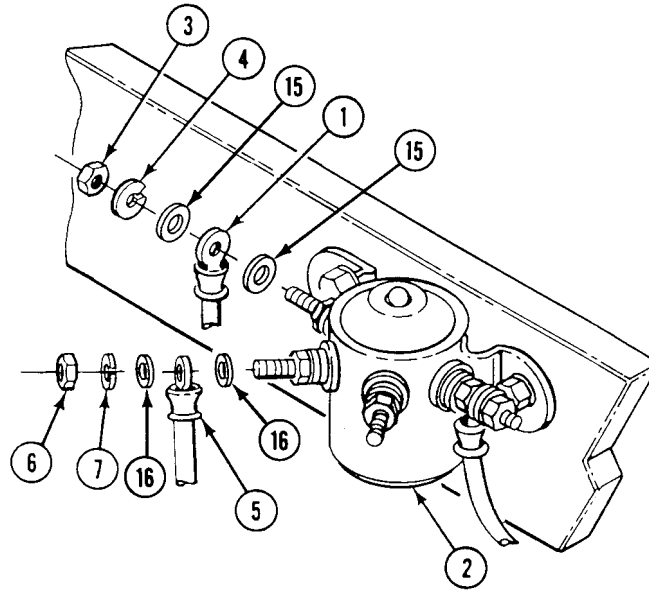
3. INSTALL CIRCUIT LEAD 74C (6) ON RELAY SWITCH (4). SECURE WITH NEW LOCKWASHER (12), TWO WASHERS (18), AND NUT (13).



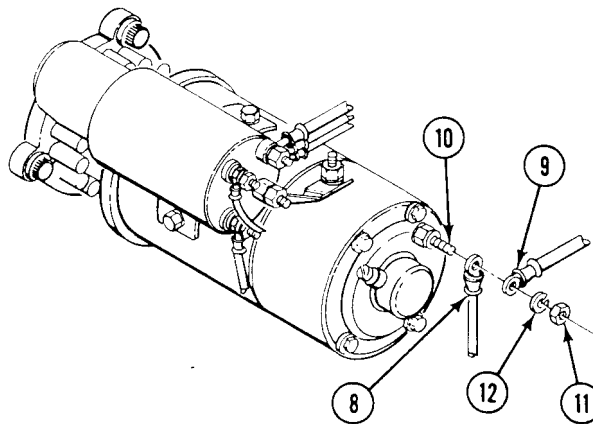
4. INSTALL CIRCUIT LEAD 74D (14) ON SOLENOID SWITCH TERMINAL (15). SECURE LEAD WITH WASHER (16) AND NUT (17).



5. INSTALL CIRCUIT LEAD 74D (1) ON RELAY SWITCH (2). SECURE LEAD WITH NUT (3) NEW LOCKWASHER (4), AND TWO WASHERS (15).



6. INSTALL CIRCUIT LEAD 74 (5) ON RELAY SWITCH (2). SECURE LEAD WITH NUT (6), NEW LOCKWASHER (7), AND TWO WASHERS (16).
7. INSTALL STARTER GROUND LEAD (8) AND CIRCUIT LEAD 74A (9) ON STARTER GROUND TERMINAL (10). SECURE LEADS WITH NUT (11) AND WASHER (12).



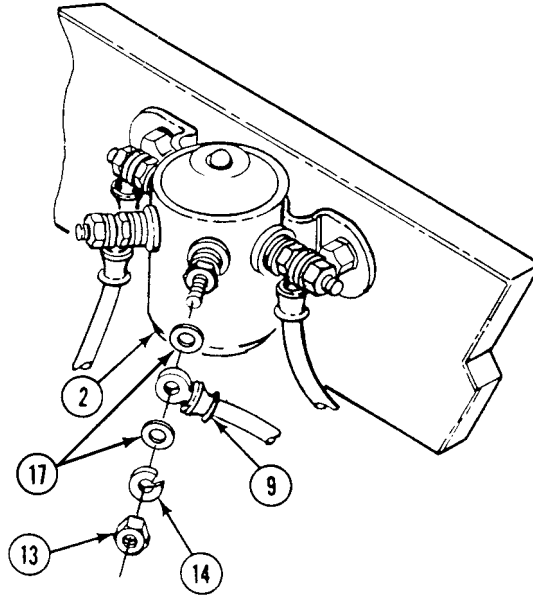
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**REPLACE STARTER RELAY SWITCH — Continued**

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**0256 00**

8. INSTALL CIRCUIT LEAD 74A (9) ON RELAY SWITCH (2). SECURE LEAD WITH NUT (13), NEW LOCKWASHER (14), AND TWO WASHERS (17).



9. INSTALL SECONDARY FUEL FILTER (WP 0133 00).  
10. CONNECT BATTERY GROUND STRAP (WP 0237 00).  
11. INSTALL POWER PLANT REAR ACCESS PANELS (WP 0309 00).  
12. INSTALL DRIVER'S POWER PLANT ACCESS PANEL (WP 0312 00).

**END OF TASK**



**REPLACE CIRCUIT BREAKER**

**0257 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0257 00-1).
- Installation (page 0257 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Battery ground strap disconnected (WP 0237 00)
- Instrument panel removed (WP 0220 00)

Materials/Parts

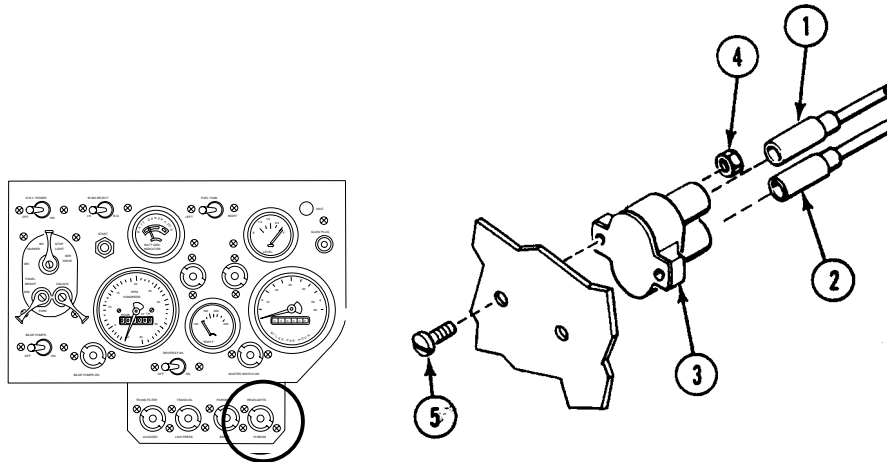
Locknut (2)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. DISCONNECT CIRCUIT 10 LEAD (1) AND CIRCUIT 27 LEAD (2) FROM CIRCUIT BREAKER (3).
2. REMOVE TWO LOCKNUTS (4), SCREWS (5), AND CIRCUIT BREAKER (3) FROM REAR OF INSTRUMENT PANEL. DISCARD LOCKNUTS.



**INSTALLATION**

1. PLACE CIRCUIT BREAKER (3) ON REAR OF INSTRUMENT PANEL. SECURE WITH TWO SCREWS (5) AND NEW LOCKNUTS (4).
2. CONNECT CIRCUIT 27 LEAD (2) AND CIRCUIT 10 LEAD (1) TO CIRCUIT BREAKER (3).
3. INSTALL INSTRUMENT PANEL (WP 0220 00).
4. CONNECT BATTERY GROUND STRAP (WP 0237 00).
5. TURN MASTER SWITCH TO ON. See TM 9-2350-366-10-1. MASTER SWITCH ON LIGHT SHOULD COME ON.
6. TURN MASTER SWITCH TO OFF. See TM 9-2350-366-10-1.

**END OF TASK**



**REPLACE BILGE PUMP CIRCUIT BREAKER**

**0258 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0258 00-1).  
 Installation (page 0258 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Battery ground lead disconnected (WP 0237 00)  
 Instrument warning light panel removed (WP 0217 00)  
 Master switch panel assembly removed (WP 0246 00)

Materials/Parts

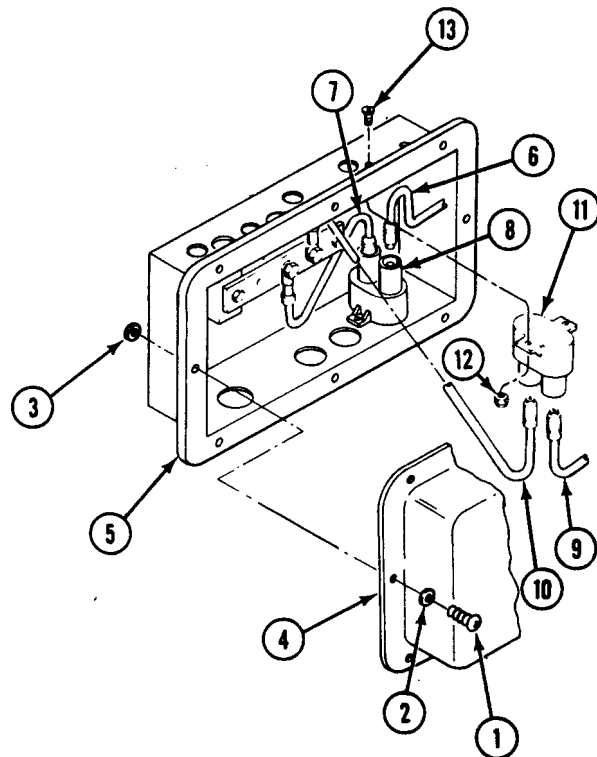
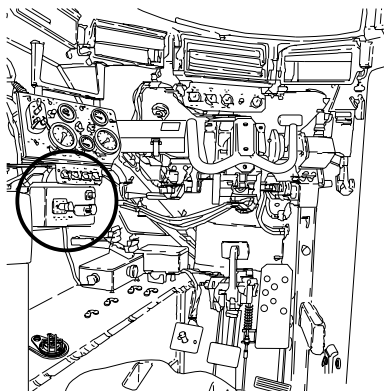
Locknut (8)  
 Locknut (4)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. REMOVE EIGHT SCREWS (1), WASHERS (2), AND LOCKNUTS (3) FROM MASTER SWITCH PANEL (4) AND DISTRIBUTION BOX (5). REMOVE MASTER SWITCH PANEL FROM DISTRIBUTION BOX. DISCARD LOCKNUTS.
2. DISCONNECT CIRCUIT 450 LEAD (6) AND CIRCUIT 450A LEAD (7) FROM FRONT BILGE PUMP CIRCUIT BREAKER (8).

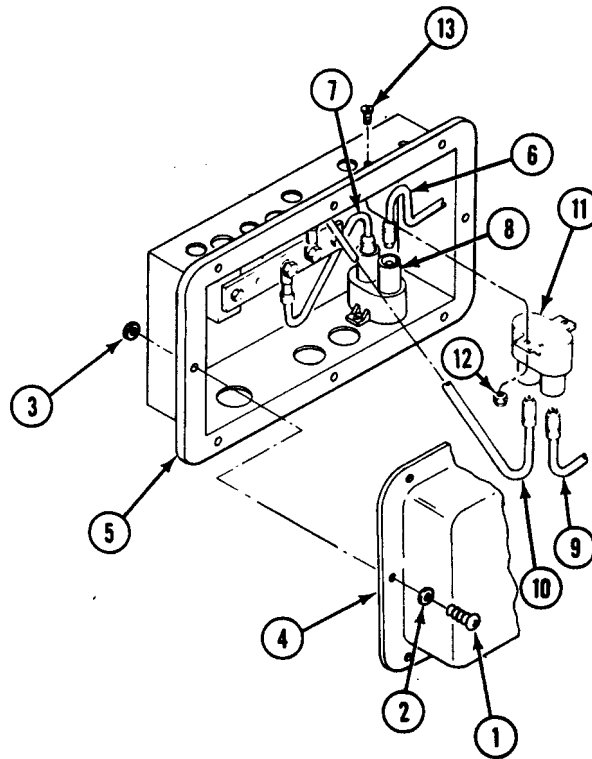


**REPLACE BILGE PUMP CIRCUIT BREAKER — Continued****0258 00**

3. REMOVE TWO LOCKNUTS (12), SCREWS (13), AND CIRCUIT BREAKER (8) FROM DISTRIBUTION BOX (5). DISCARD LOCKNUTS.

**INSTALLATION**

1. INSTALL CIRCUIT BREAKER (8) IN DISTRIBUTION BOX (5). SECURE WITH TWO SCREWS (13) AND NEW LOCKNUTS (12).
2. CONNECT CIRCUIT 450A LEAD (6) AND CIRCUIT 450 LEAD (7) TO FRONT BILGE PUMP CIRCUIT BREAKER (8).
3. PLACE MASTER SWITCH PANEL (4) ON DISTRIBUTION BOX (5). SECURE WITH EIGHT SCREWS (1), WASHERS (2), AND NEW LOCKNUTS (3).



4. INSTALL MASTER SWITCH PANEL ASSEMBLY (WP 0246 00).
5. INSTALL INSTRUMENT WARNING LIGHT PANEL (WP 0217 00).
6. CONNECT BATTERY GROUND STRAP (WP 0237 00).
7. TURN MASTER SWITCH TO ON. See TM 9-2350-366-10-1.
8. TURN BILGE PUMP SWITCH TO ON TO CHECK THAT BILGE PUMP CIRCUIT BREAKER WORKS PROPERLY. See TM 9-2350-366-10-1. BILGE PUMP LIGHT SHOULD COME ON.
9. TURN ALL SWITCHES TO OFF. See TM 9-2350-366-10-1.

**END OF TASK**

CHAPTER 20

UNIT MAINTENANCE INSTRUCTIONS  
FOR VENTILATING FANS

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>   | <u>Sequence No.</u> |
|--|---------------------|
| REMOVE/INSTALL CREW VENTILATION FAN ASSEMBLY.....                                      | 0259 00             |
| REMOVE/REPLACE DRIVER'S VENTILATION FAN ASSEMBLY MOUNTING BRACKET<br>AND HARDWARE..... | 0260 00             |
| REMOVE/INSTALL EXTERNAL FRESH AIR DUCT ASSEMBLY.....                                   | 0261 00             |
| REMOVE/INSTALL CREW INTERNAL FRESH AIR DUCT ASSEMBLY.....                              | 0262 00             |
| REMOVE/INSTALL EXTERNAL FRESH AIR SYSTEM FILTER.....                                   | 0263 00             |



**REMOVE/INSTALL CREW VENTILATION FAN ASSEMBLY**

**0259 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0259 00-1).  
 Installation (page 0259 00-4).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Vehicle master power switch OFF  
 (TM 9-2350-366-10-1)  
 Battery ground strap disconnected (WP 0237 00)  
 Turret rotated to 4200 mils (TM 9-2350-366-10-2)

Materials/Parts

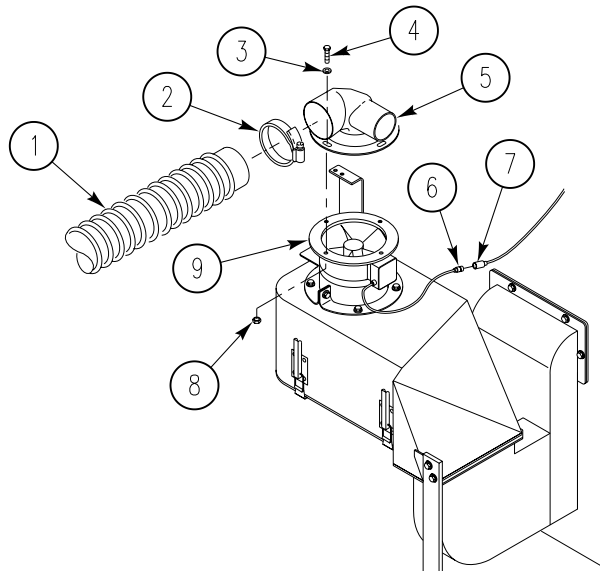
Locknut

Personnel Required

Unit mechanic 63T10  
 Helper (H)

**REMOVAL**

1. DISCONNECT FAN ELECTRICAL CONNECTOR (6) FROM 1W4 HARNESS PLUG 59A (7).
2. REMOVE TWO CLAMPS (2) AND HOSE (1) FROM OUTLET DUCT (5).

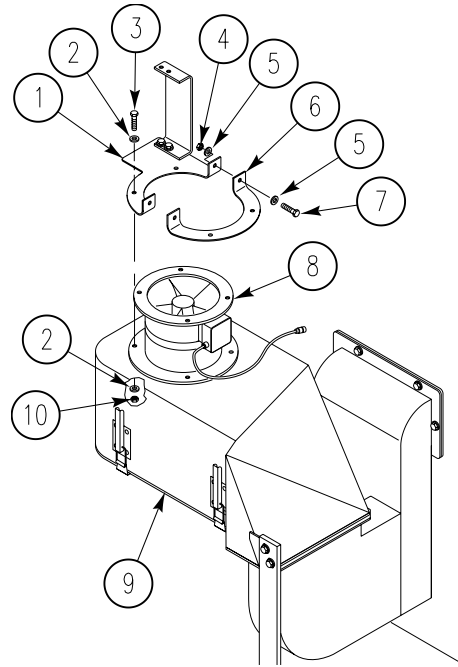


3. REMOVE TWO BOLTS (7), FOUR FLAT WASHERS (5), AND TWO LOCKNUTS (4) FROM BRACKETS (1) AND (6). DISCARD LOCKNUTS.
4. REMOVE CREW EXTERNAL FRESH AIR SYSTEM FILTER (WP 0263 00).

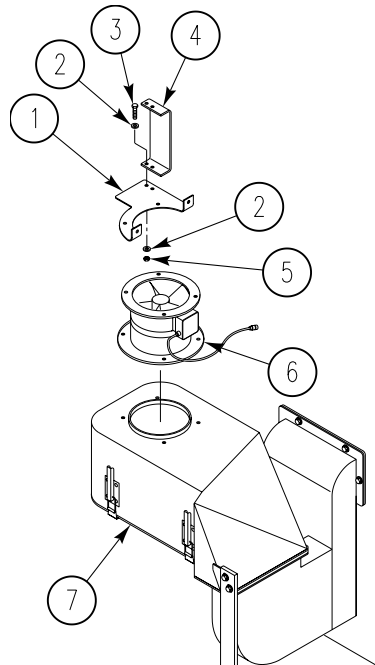
REMOVE/INSTALL CREW VENTILATION FAN ASSEMBLY — Continued

0259 00

5. REMOVE FOUR SCREWS (3), EIGHT FLAT WASHERS (2), AND FOUR LOCKNUTS (10) FROM FAN (8). DISCARD LOCKNUTS.
6. REMOVE BRACKET (6). SAVE BRACKET FOR REINSTALLATION.

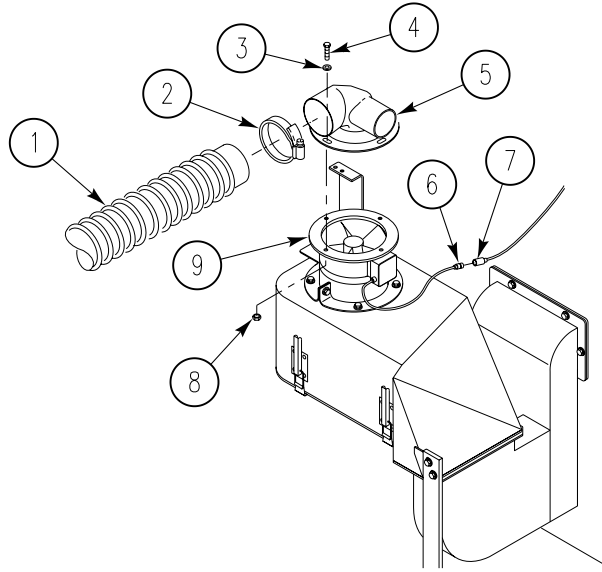


7. REMOVE TWO BOLTS (3), FOUR FLAT WASHERS (2), AND TWO LOCKNUTS (5). DISCARD LOCKNUTS.
8. REMOVE BRACKET (4). SAVE BRACKET FOR REINSTALLATION.

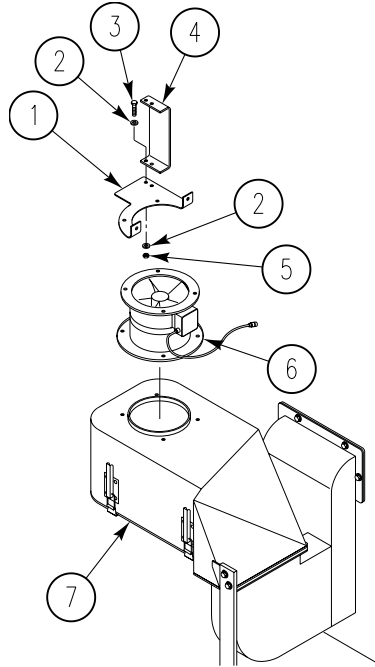




9. REMOVE FOUR BOLTS (4), FOUR FLAT WASHERS (3), FOUR LOCKNUTS (8) AND OUTLET DUCT (5) FROM FAN (9). DISCARD LOCKNUTS.

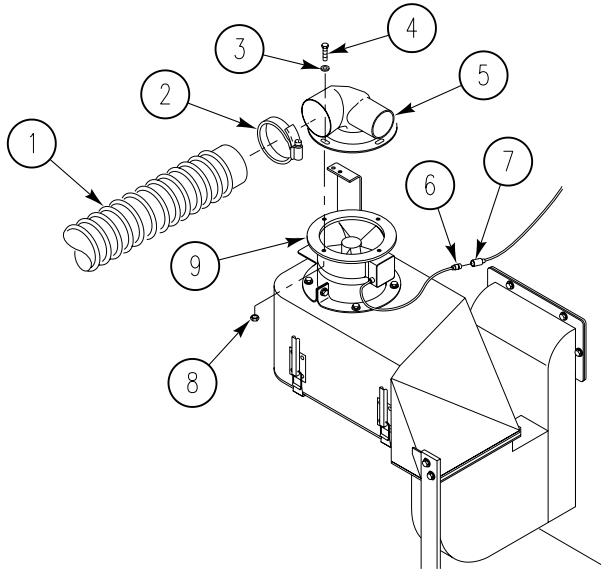


10. LIFT FAN (6) OUT OF DUCT ASSEMBLY (7).



**INSTALLATION**

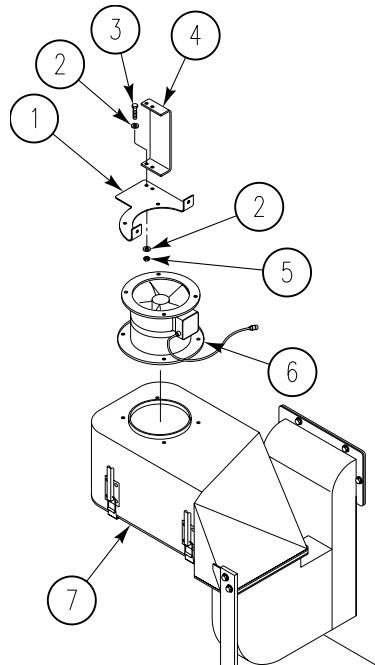
1. POSITION OUTLET DUCT (5) ON FAN (9).
2. INSTALL FOUR BOLTS (4), FOUR FLAT WASHERS (3), AND FOUR NEW LOCKNUTS (8) SECURING DUCT (5) TO FAN (9).



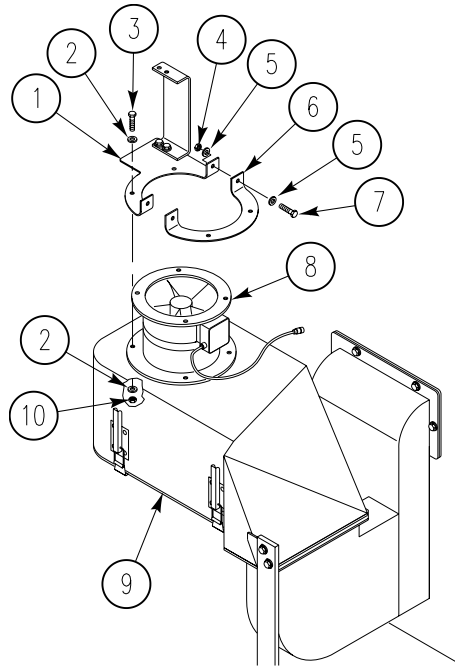
**NOTE**

**In order to align and insert bolts, hand tighten nuts until otherwise instructed.**

3. ALIGN BRACKET (4) WITH BRACKET (1) AND INSERT TWO BOLTS (3), FOUR FLAT WASHERS (2), AND TWO NEW LOCKNUTS (5). HAND TIGHTEN LOCKNUTS.

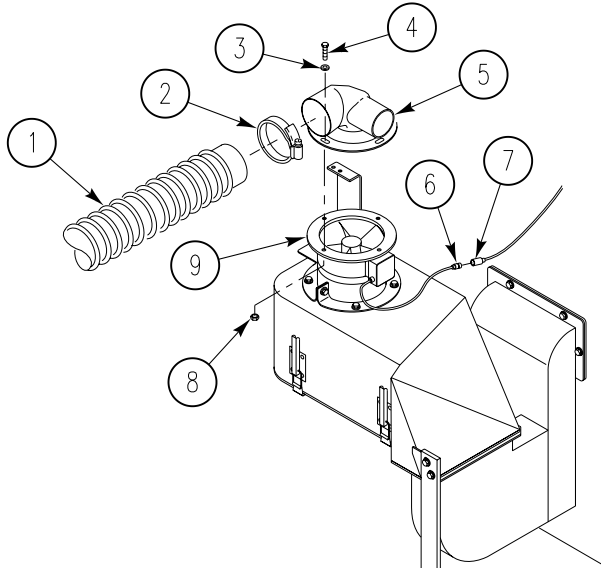


4. SLIDE NEW FAN (8) UNDER BRACKET (1) AND ALIGN BOLT HOLES. INSERT TWO BOLTS (3) AND TWO FLAT WASHERS (2) THROUGH BRACKET (1), FAN (8), AND AIR FILTER BOX (9). SECURE USING TWO FLAT WASHERS (2) AND TWO NEW LOCKNUTS (10). HAND TIGHTEN LOCKNUTS.
5. POSITION BRACKET (6) AND INSERT TWO BOLTS (7) AND TWO WASHERS (5) THROUGH FAN (8) AND AIR FILTER BOX (9). SECURE USING TWO FLAT WASHERS (5) AND TWO NEW LOCKNUTS (4).



6. TIGHTEN ALL LOCKNUTS.
7. INSTALL CREW EXTERNAL FRESH AIR SYSTEM FILTER (WP 0263 00).

8. INSTALL HOSE (1) ON OUTLET DUCT (5) AND SECURE WITH TWO HOSE CLAMPS (2).
9. CONNECT FAN CONNECTOR (6) TO 1W4 HARNESS PLUG 59A (7).



10. ROTATE TURRET TO 6400 MILLS. See TM 9-2350-366-10-2.

**END OF TASK**

**REMOVE/REPLACE DRIVER'S VENTILATION FAN ASSEMBLY MOUNTING  
BRACKET AND HARDWARE**

**0260 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0260 00-1).  
Installation (page 0260 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

Lockwasher (4)  
Seal (2)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

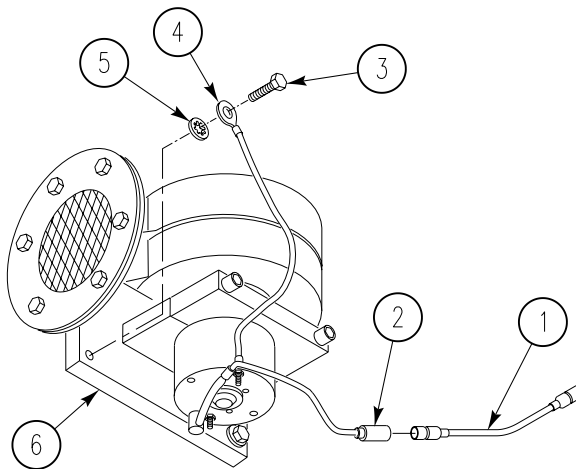
Personnel Required

Unit Mechanic 63T10

Vehicle ground strap disconnected (WP 0237 00)

**REMOVAL**

1. DISCONNECT CABLE 451A (1) FROM VENTILATION FAN CABLE (2).
2. REMOVE SCREW (3), GROUND LEAD (4), AND LOCKWASHER (5) FROM BOTTOM BRACKET (6). DISCARD LOCKWASHER.



---

**REMOVE/REPLACE DRIVER'S VENTILATION FAN ASSEMBLY MOUNTING BRACKET  
AND HARDWARE — Continued**

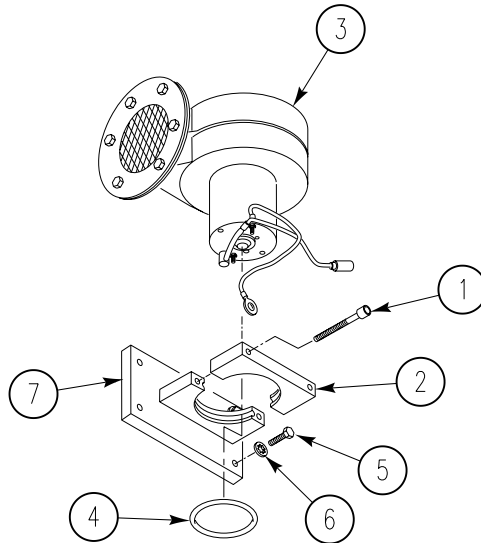
---

0260 00

**CAUTION**

When removing ventilation fan from mounting bracket, take care not to drop it.

3. REMOVE TWO SCREWS (1), TOP BRACKET (2) VENTILATION FAN ASSEMBLY (3), AND SEAL (4) FROM BOTTOM BRACKET (7). DISCARD SEAL IF DAMAGED.



4. REMOVE THREE SCREWS (5), LOCKWASHERS (6), AND BOTTOM BRACKET (7) FROM WELDNUT ON DRIVER'S COMPARTMENT LEFT HULL PLATE. DISCARD LOCKWASHERS. REMOVE SEAL (4) FROM BOTTOM BRACKET (7). DISCARD SEAL IF DAMAGED.

**REMOVE/REPLACE DRIVER'S VENTILATION FAN ASSEMBLY MOUNTING BRACKET AND HARDWARE — Continued**

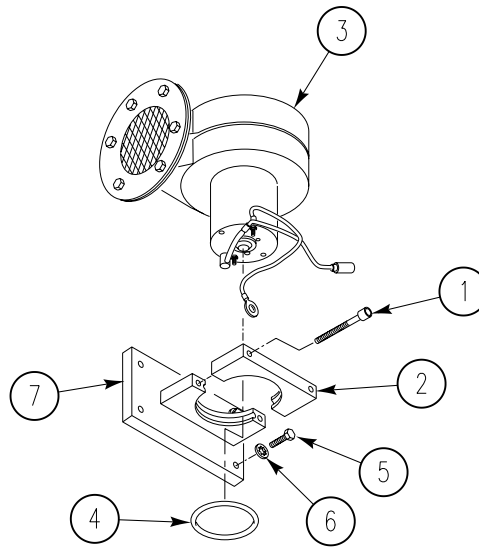
0260 00

**INSTALLATION**

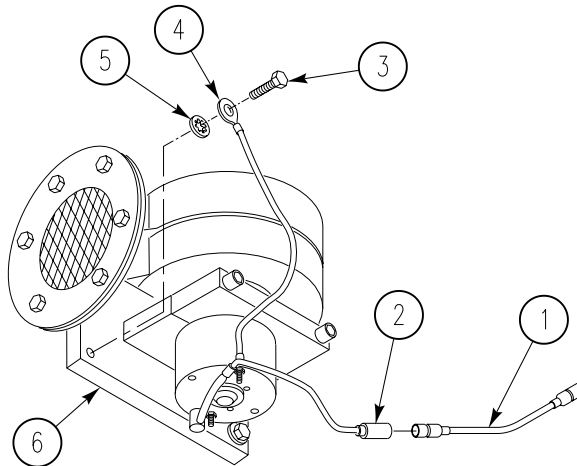
**CAUTION**

**When installing ventilation fan, take care not to drop it.**

1. INSTALL BOTTOM BRACKET (1) DRIVER'S COMPARTMENT LEFT HULL PLATE. SECURE WITH THREE NEW LOCKWASHERS (6) AND SCREWS (5). INSTALL NEW BOTTOM SEAL (4) IN GROOVE OF BRACKET (7).



2. INSTALL VENTILATION FAN ASSEMBLY (3), NEW SEAL (4), AND TOP BRACKET (2) ON BOTTOM BRACKET (7). SECURE WITH TWO SCREWS (1).
3. INSTALL NEW LOCKWASHER (5), GROUND STRAP (4), AND SCREW (3) ON BOTTOM BRACKET. (6).



4. CONNECT CABLE 1W19 (1) TO VENTILATION FAN CABLE (2).

**END OF TASK**





**REMOVE/INSTALL EXTERNAL FRESH AIR DUCT ASSEMBLY**

**0261 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0261 00-1).  
 Installation (page 0261 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Materials/Parts

Adhesive (WP 0399 00, Item 4)

Solvent (WP 0399 00, Item 17)

Wiping rag (WP 0399 00, Item 64)

Vehicle blocked (TM 9-2350-366-10-1)

Vehicle master power switch OFF  
 (TM 9-2350-366-10-1)

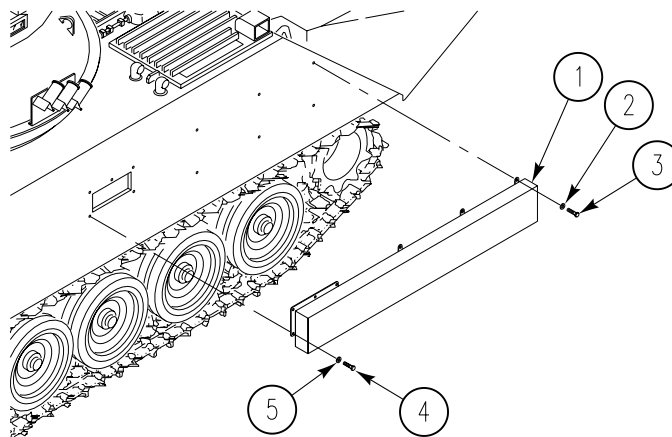
Personnel Required

Unit Mechanic 63T10

Helper (H)

**REMOVAL**

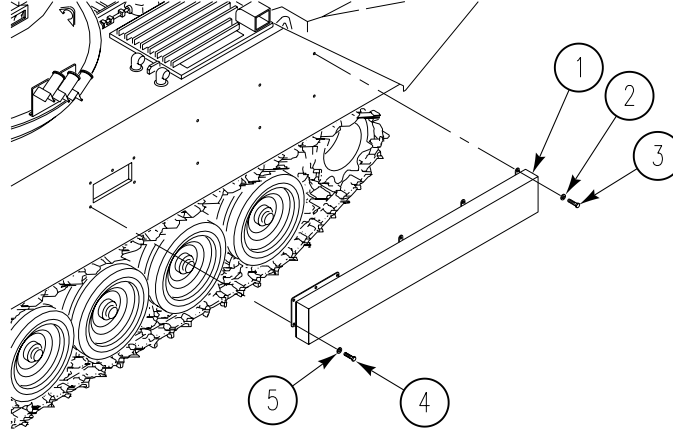
1. REMOVE RIGHT SIDE VISMOD (WP 0314 00).
2. REMOVE FIVE SCREWS (3) AND FLAT WASHERS (2) FROM EXTERNAL DUCT (1).



3. WITH HELPER SUPPORTING EXTERNAL DUCT (1), REMOVE SIX SCREWS (4) AND SIX FLAT WASHERS (5).
4. REMOVE EXTERNAL DUCT (1).

**INSTALLATION**

1. THOROUGHLY CLEAN EXTERNAL DUCT (1) AND HULL MATING SURFACES USING SOLVENT AND WIPING RAG.



2. APPLY ADHESIVE TO EXTERNAL DUCT AND HULL MATING SURFACE.
3. WHILE HELPER POSITIONS EXTERNAL DUCT (1) FOR INSTALLATION, INSTALL SIX BOLTS (4) AND SIX FLAT WASHERS (5). DO NOT TIGHTEN BOLTS.
4. INSTALL FIVE SCREWS (3) AND FIVE FLAT WASHERS (2) SECURING EXTERNAL DUCT. TIGHTEN ALL BOLTS.
5. INSTALL RIGHT SIDE VISMOD (WP 0314 00).

**END OF TASK**

---

**REMOVE/INSTALL CREW INTERNAL FRESH AIR DUCT ASSEMBLY**

**0262 00**

---

**THIS WORK PACKAGE COVERS:**

Removal (page 0262 00-2).  
 Installation (page 0262 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

Adhesive (WP 0399 00, Item 4)  
 Cleaning solvent (WP 0399 00, Item 17)  
 Wiping rag (WP 0399 00, Item 64)  
 Locknut  
 Seal

Personnel Required

Unit mechanic 63T10  
 Helper (H)

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

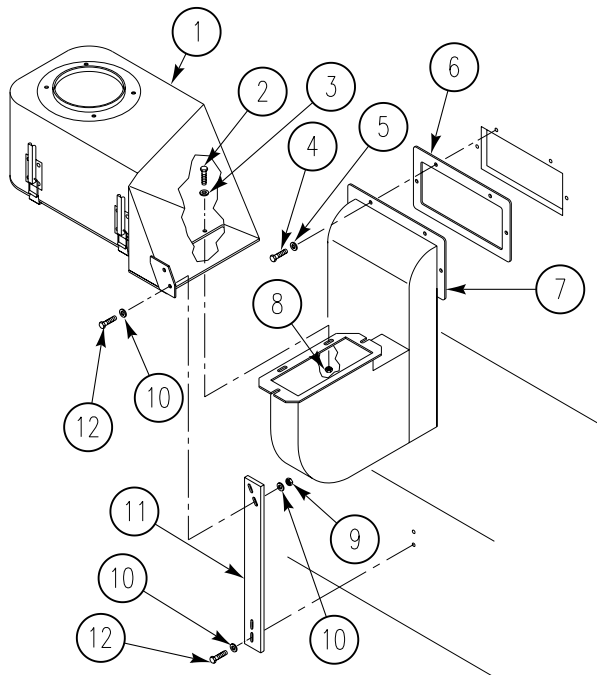
Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Vehicle master power switch OFF  
 (TM 9-2350-366-10-1)  
 Fresh air fan removed (WP 0259 00)  
 Turret rotated to 4130 mils for access  
 (TM 9-2350-366-10-2)

---

**REMOVAL**

1. REMOVE FOUR BOLTS (2), FOUR FLAT WASHERS (3), AND FOUR LOCKNUTS (8) SECURING INLET DUCT (7) TO BOTTOM OF AIR FILTER BOX (1). DISCARD LOCKNUTS.
2. REMOVE TWO SCREWS (12), FOUR FLAT WASHERS (10), AND TWO LOCKNUTS (9) FROM BRACKET (11). DISCARD LOCKNUTS.
3. LIFT AIR FILTER BOX (1) UP AND OFF INLET DUCT (7).
4. REMOVE TWO SCREWS (12), TWO FLAT WASHERS (10), AND BRACKET (11).
5. REMOVE FOUR SCREWS (4), AND FOUR FLAT WASHERS (5) SECURING INLET DUCT (7) TO INSIDE WALL OF HULL.
6. REMOVE INLET DUCT (7) AND RUBBER SEAL (6). DISCARD RUBBER SEAL.



## INSTALLATION

**WARNING**

Solvent fumes and fluid are poisonous and can cause skin irritation.

Solvent may be harmful if swallowed. Avoid skin contact and breathing of fumes. Read solvent warning at the front of this manual.

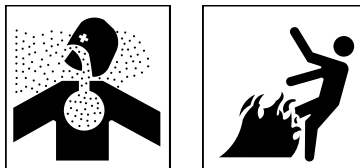
**WARNING**

Solvent evaporates rapidly and makes fumes that are flammable.

Do not smoke or allow open flames near solvent fumes.

Read solvent warning at the front of this manual.

1. THOROUGHLY CLEAN SEAL AREA OF INLET DUCT AND HULL MATING SURFACE USING CLEANING SOLVENT AND WIPING RAGS.

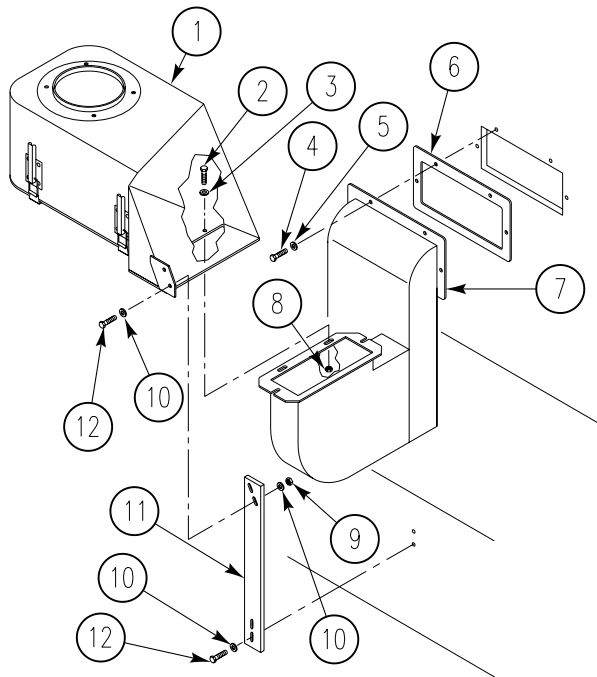
**WARNING**

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 ADHESIVE TO NEW SEAL (6) AND HULL MATING SURFACE.

3. APPLY ADHESIVE TO SEAL (6) AND INLET DUCT (7) MATING SURFACE.
4. POSITION SEAL (6) AND INLET DUCT (7) FOR INSTALLATION.
5. INSTALL AND SECURE INLET DUCT (7) USING FOUR SCREWS (4) AND FOUR FLAT WASHERS (5).
6. POSITION AIR FILTER BOX (1) FOR INSTALLATION.
7. INSTALL BRACKET (11) AND SECURE WITH TWO SCREWS (12) AND FLAT WASHERS (10).
8. INSTALL TWO SCREWS (12), FOUR FLAT WASHERS (10), AND TWO NEW LOCKNUTS (9). HAND TIGHTEN AT THIS TIME.
9. INSTALL FOUR BOLTS (2), FOUR FLAT WASHERS (3), AND FOUR NEW LOCKNUTS (8) SECURING INLET DUCT (7) TO AIR FILTER BOX (1).



10. TIGHTEN NUTS SECURING AIR FILTER BOX TO BRACKET.
11. INSTALL FRESH AIR FAN (WP 0259 00).
12. ROTATE TURRET TO 6400 MILS. See TM 9-2350-366-10-2.

**END OF TASK**

---

**REMOVE/INSTALL EXTERNAL FRESH AIR SYSTEM FILTER**

---

**0263 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0263 00-1).  
 Installation (page 0263 00-2).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Vehicle Master POWER Switch OFF  
 (TM 9-2350-366-10-1)

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Personnel Required

Unit Mechanic 63T10

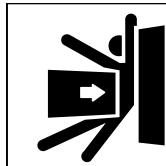
References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

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**REMOVAL**

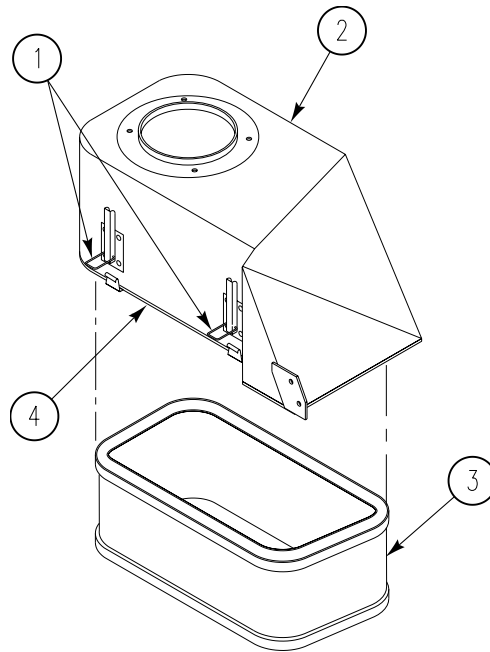
**WARNING**



**Turret can rotate and severely injure or kill you. Do not reach through turret shield opening when turret power is on. Keep turret shield door closed whenever turret drive power is on. Engage turret travel lock before moving or reaching through turret shield opening.**

1. MANUALLY ROTATE TURRET FOR ACCESS. See TM 9-2350-366-10-2.

2. RELEASE TWO LATCHES (1) AND OPEN LID (2) EXPOSING FILTER (3).



3. PULL FILTER (3) STRAIGHT DOWN AND OUT OF AIR DUCT (4).

**INSTALLATION**

1. POSITION NEW FILTER (3) IN AIR DUCT (4) FOR INSTALLATION.
2. CLOSE LID (2) AND SECURE WITH TWO LATCHES (1).

**END OF TASK**



CHAPTER 21

UNIT MAINTENANCE INSTRUCTIONS  
FOR TRANSMISSION

---

**WORK PACKAGE INDEX**

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| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| REPLACE TRANSMISSION OIL DRAIN TUBES AND BRACKET..... | 0264 00             |
| REPLACE TRANSMISSION MOUNTS.....                      | 0265 00             |
| REPLACE TRANSMISSION RANGE CONTROLLER/BRACKET.....    | 0266 00             |



**REPLACE TRANSMISSION OIL DRAIN TUBES AND BRACKET**

**0264 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0264 00-1).  
 Installation (page 0264 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Materials/Parts

Nonmetallic hose (WP 0399 00, Item 41)

Vehicle blocked (TM 9-2350-366-10-1)

Locknut

Power plant removed (WP 0106 00)

Lockwasher

Transmission oil drained (WP 0264 00)

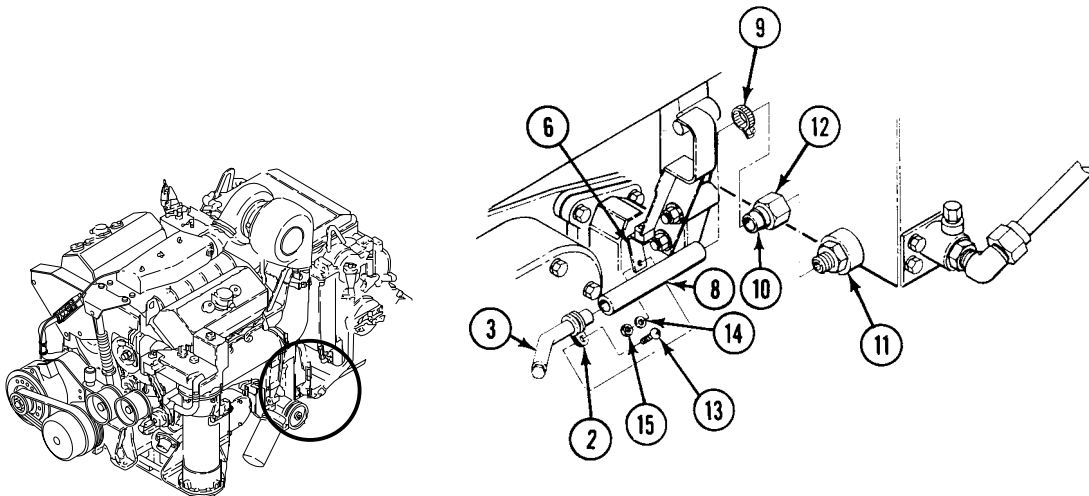
Preformed packing

Personnel Required

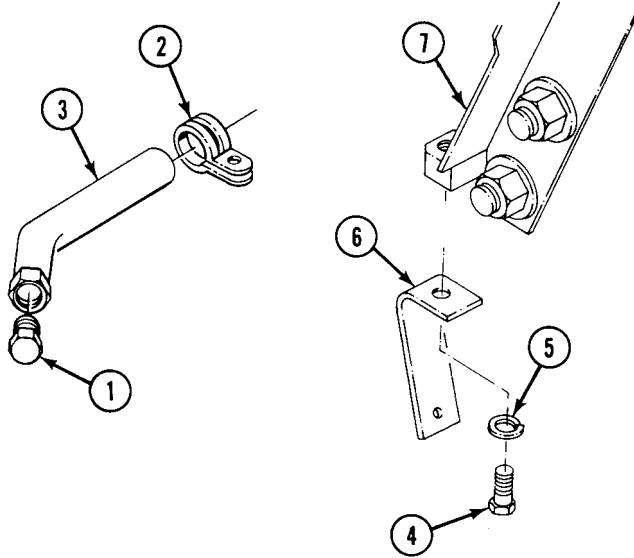
Unit Mechanic 63T10

**REMOVAL**

1. REMOVE LOCKNUT (15), SCREW (13), WASHER (14), AND CLAMP (2) FROM BRACKET (6). DISCARD LOCKNUT.
2. REMOVE COUPLING NUT (12) AND OIL DRAIN TUBE (10) FROM ADAPTER (11).
3. REMOVE TWO CLAMPS (9) FROM HOSE (8). REMOVE HOSE FROM TUBES (3) AND (10). DISCARD HOSE.



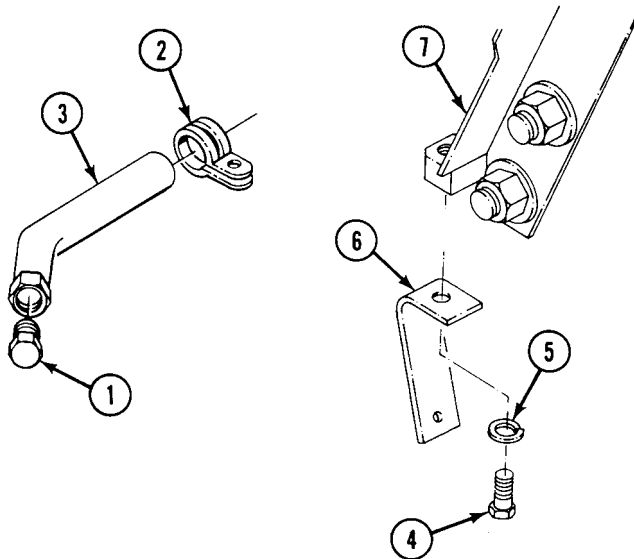
4. REMOVE DRAIN PLUG (1) AND CLAMP (2) FROM TUBE (3).



5. REMOVE SCREW (4), LOCKWASHER (5), AND BRACKET (6) FROM BRACKET (7). DISCARD LOCKWASHER.

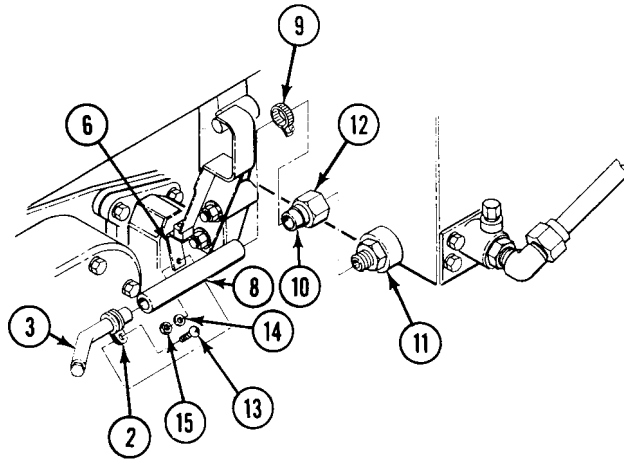
**INSTALLATION**

1. INSTALL BRACKET (6) ON BRACKET (7) WITH NEW LOCKWASHER (5) AND SCREW (4).



2. INSTALL DRAIN PLUG (1) AND CLAMP (2) ON TUBE (3).

- CUT 5-1/4 (13 CM) INCH NEW HOSE (8) FROM RUBBER HOISING. INSTALL TWO CLAMPS (9) ON HOSE. INSTALL HOSE ON TWO TUBES (3) AND (10). TIGHTEN CLAMPS.



- INSTALL TUBE (10) ON ADAPTER (11) AND TIGHTEN COUPLING NUT (12).
- INSTALL CLAMP (2) ON BRACKET (6) WITH SCREW (13), WASHER (14) AND NEW LOCKNUT (15).
- FILL TRANSMISSION WITH OIL (WP 0269 00).
- INSTALL POWER PLANT (WP 0106 00).

**END OF TASK**



**REPLACE TRANSMISSION MOUNTS**

**0265 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0265 00-1).  
 Installation (page 0265 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Torque wrench, 1/2 inch drive, 0-175 ft-lb  
 (WP 0397 00, Item 83)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Power plant removed (WP 0106 00)

Personnel Required

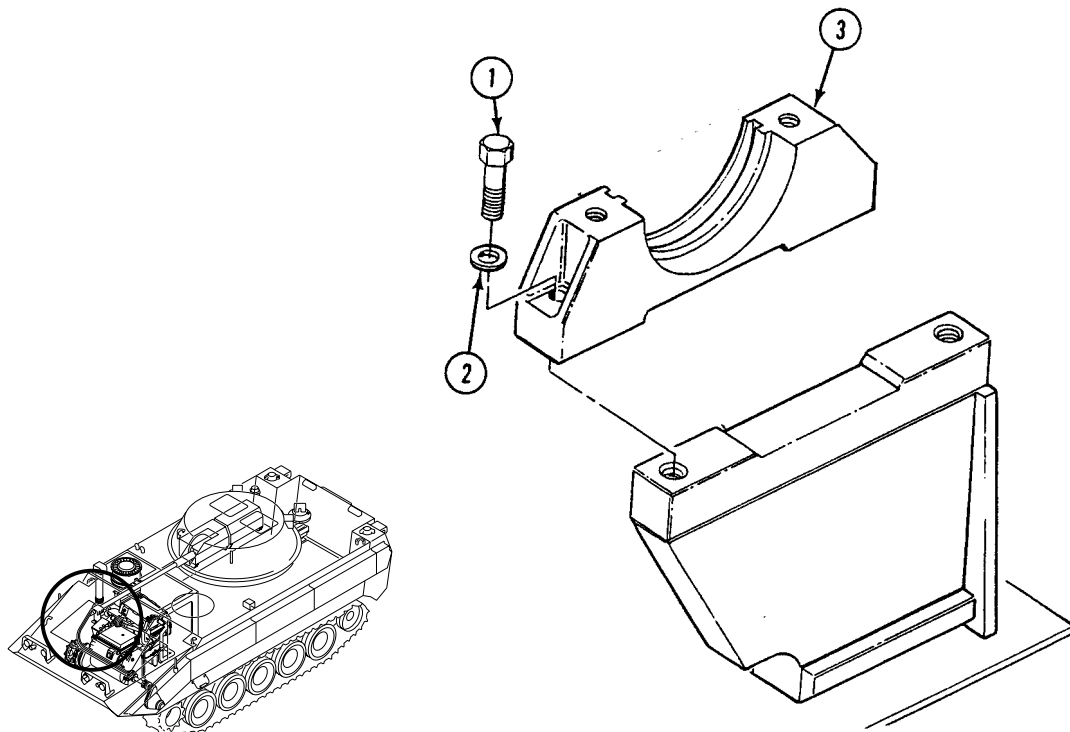
Unit Mechanic 63T10

**REMOVAL**

**NOTE**

**Both lower mounts are removed the same way.**

1. REMOVE TWO SCREWS (1) AND WASHERS (2) FROM LOWER MOUNT (3) AND CARRIER MAIN FRAME.
2. REMOVE LOWER MOUNT (3) FROM CARRIER MAIN FRAME.



## INSTALLATION

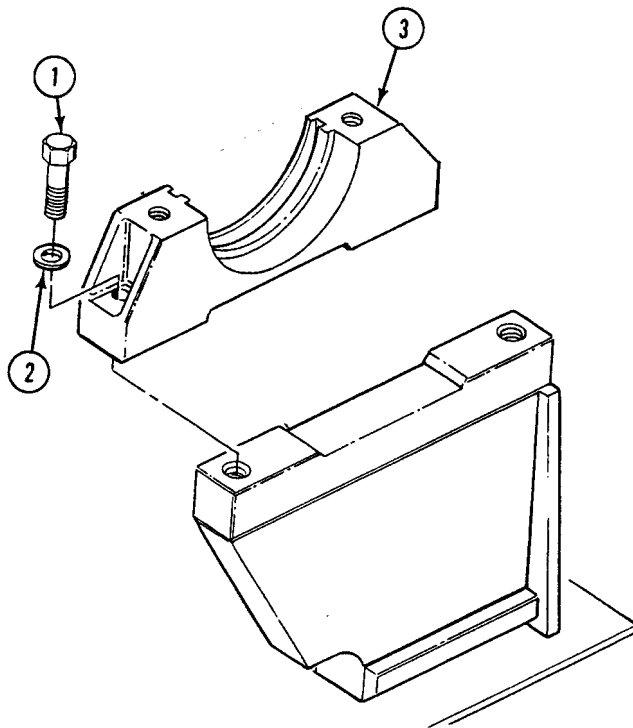
**NOTE**

Right transmission mount is grooved.

**NOTE**

Upper and lower mounts are matched sets. Do not mix.

1. INSTALL LOWER MOUNT (3) ON CARRIER MAIN FRAME WITH TWO SCREWS (1) AND WASHERS (2). TIGHTEN SCREWS TO 86-94 LB-FT (116-127 N·m) TORQUE. USE TORQUE WRENCH.



2. INSTALL POWER PLANT (WP 0106 00).

**END OF TASK**



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**REPLACE TRANSMISSION RANGE CONTROLLER/BRACKET**

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**0266 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0266 00-2).  
 Installation (page 0266 00-4).

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**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

Cotter pin  
 Locknut (3)  
 Lockwasher  
 Lockwasher (8)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)

Personnel Required

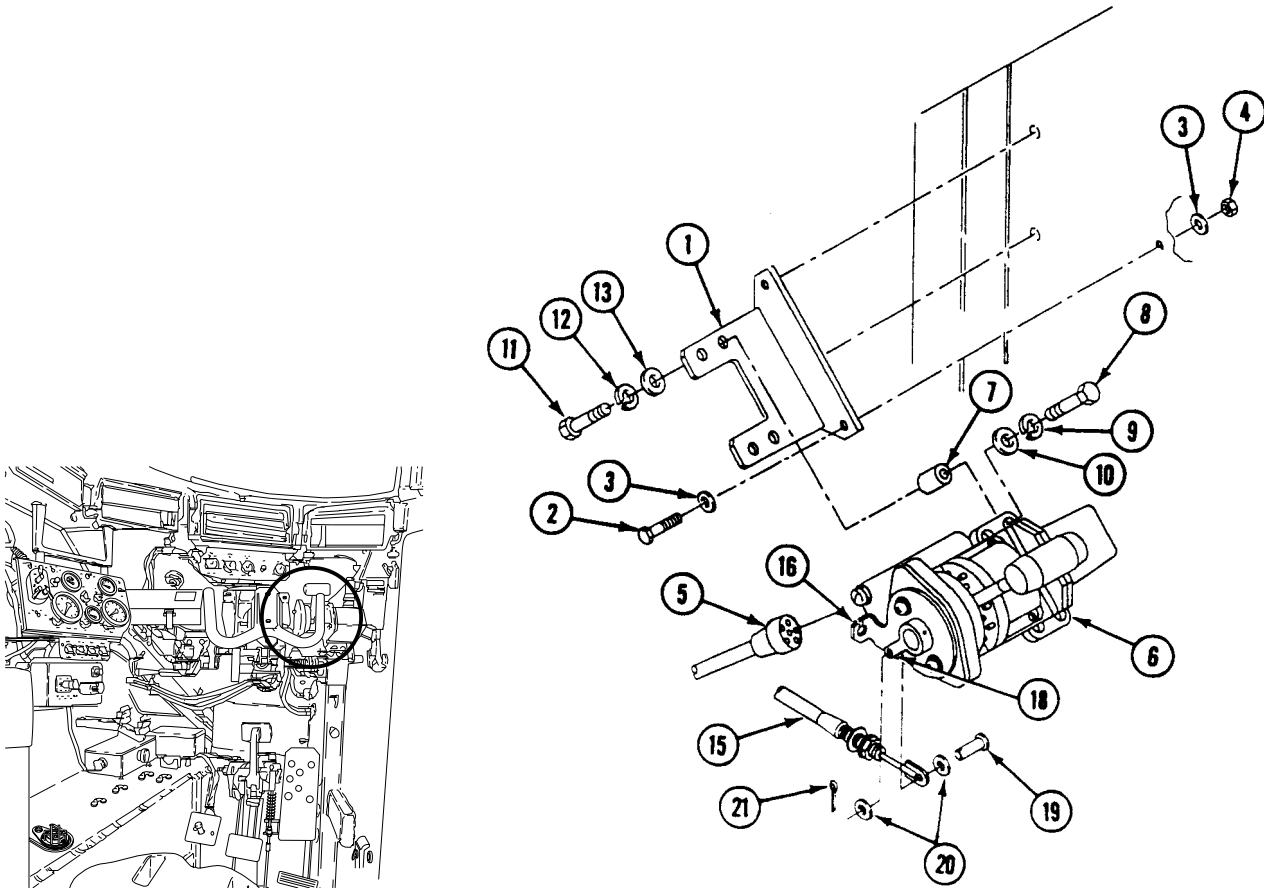
Unit Mechanic 63T10

Driver's power plant access panel removed  
 (WP 0312 00)

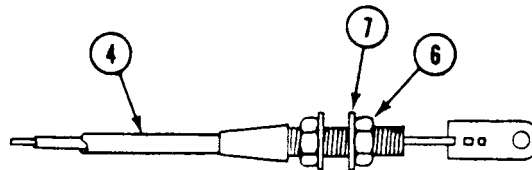
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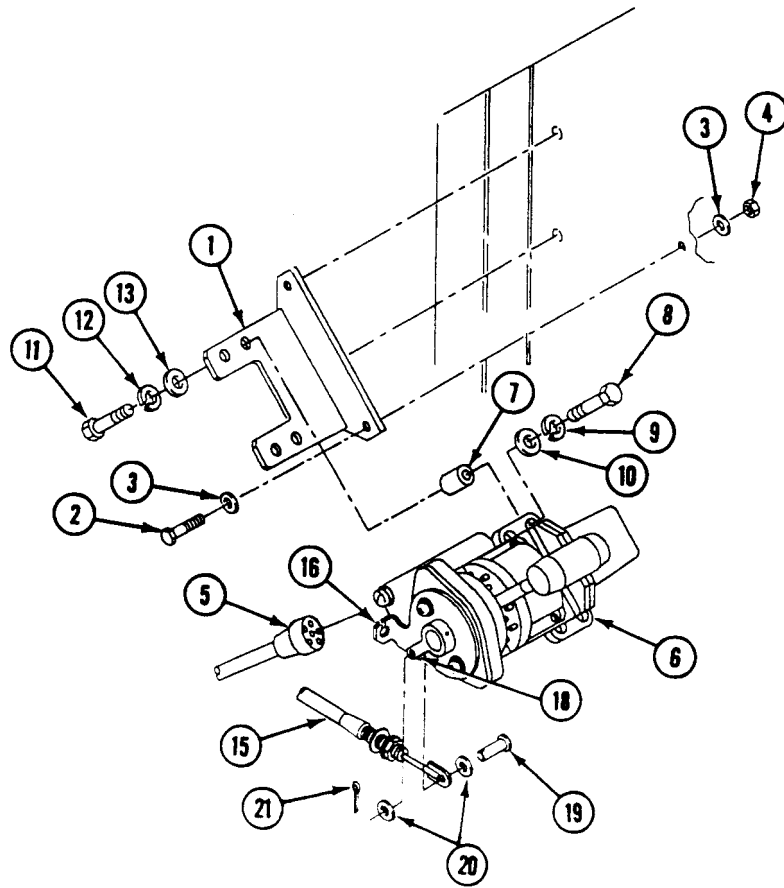
REMOVAL

1. REMOVE COTTER PIN (21), TWO WASHERS (20), PIN (19), AND END OF PUSH-PULL ASSEMBLY (15) FROM CONTROLLER ARM (18). DISCARD COTTER PIN.



2. REMOVE NUT (6) AND LOCKWASHER (7) FROM END OF PUSH-PULL ASSEMBLY (4), AND REMOVE PUSH-PULL ASSEMBLY FROM BRACKET (16). REINSTALL NUT (6) ON PUSH-PULL ASSEMBLY (4) FOR FUTURE USE. DISCARD LOCKWASHER.





3. REMOVE FOUR SCREWS (8), LOCKWASHERS (9), WASHERS (10), AND CONTROLLER (6) FROM FOUR MOUNTS (7). DISCARD LOCKWASHERS.
4. REMOVE FOUR SCREWS (11), LOCKWASHERS (12), WASHERS (13), AND MOUNTS (7) FROM BRACKET (1). DISCARD LOCKWASHERS.

### NOTE

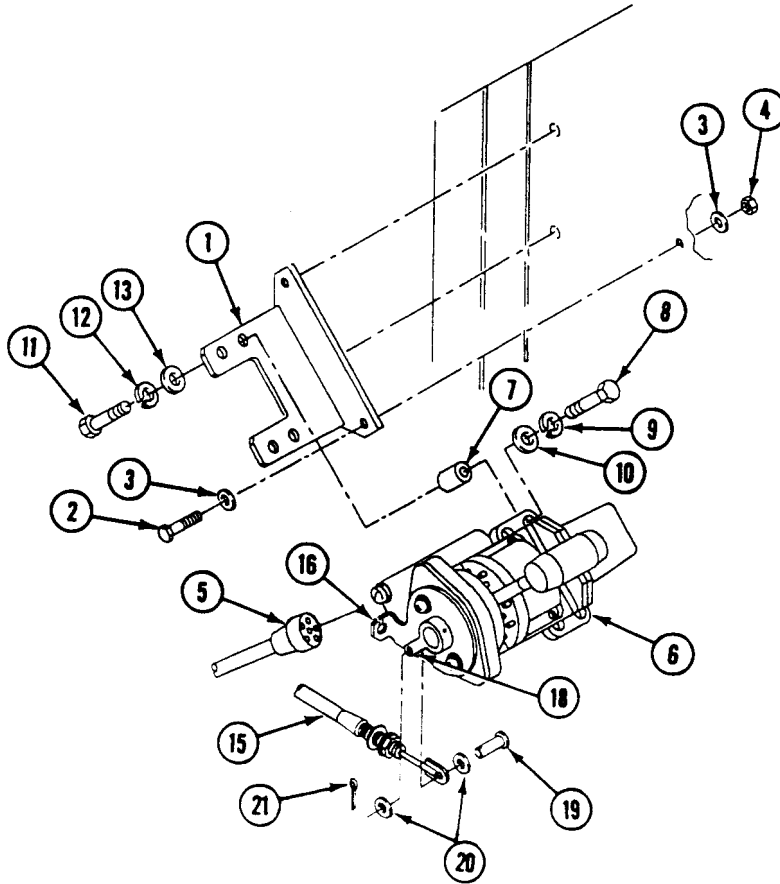
**Install covers on disconnected electrical cable connectors and components during maintenance.**

**Use tape, cloth, cardboard, or any appropriate material to prevent damage to components.**

5. DISCONNECT WIRING HARNESS (5) FROM CONTROLLER (6).
6. REMOVE THREE SCREWS (2), SIX WASHERS (3), THREE LOCKNUTS (4), AND BRACKET (1) FROM BULKHEAD. DISCARD LOCKNUTS.

## INSTALLATION

1. INSTALL BRACKET (1) ON BULKHEAD WITH THREE SCREWS (2), SIX WASHERS (3), AND THREE NEW LOCKNUTS (4).

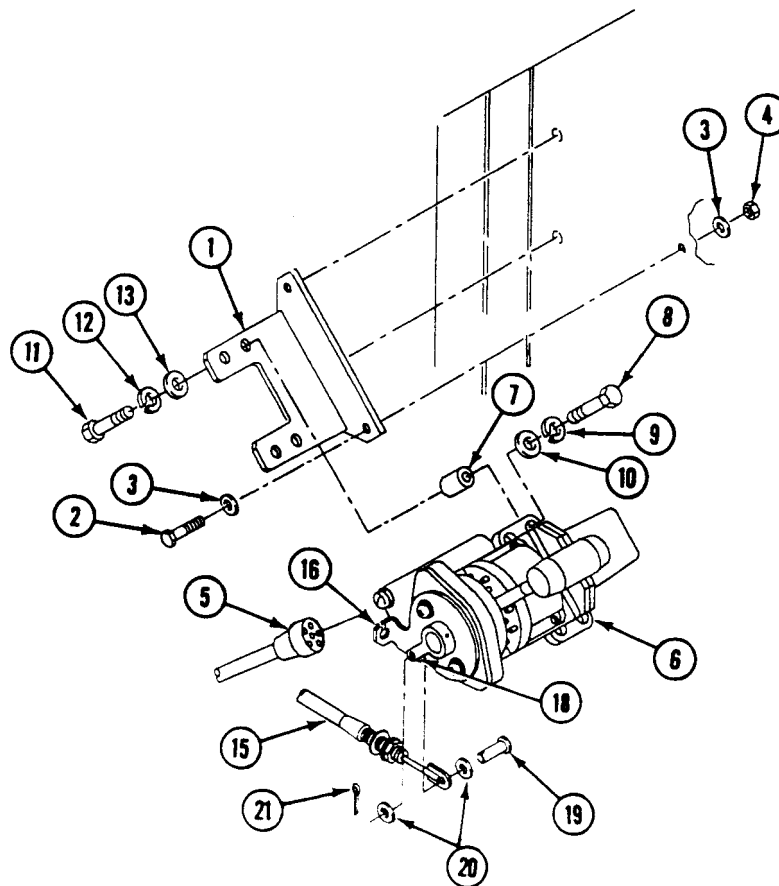
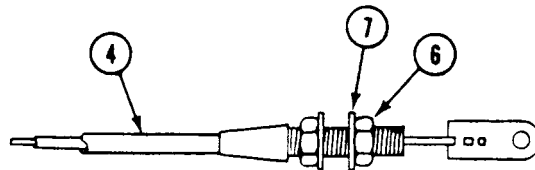


2. CONNECT WIRING HARNESS (5) TO CONTROLLER (6).
3. INSTALL FOUR MOUNTS (7) ON BRACKET (1) WITH FOUR SCREWS (8), NEW LOCKWASHERS (9), AND WASHERS (10).
4. INSTALL CONTROLLER (6) ON FOUR MOUNTS (7) WITH FOUR SCREWS (11), NEW LOCKWASHERS (12), AND WASHERS (13).

**NOTE**

**Do not tighten jamnuts until all parts to the cable and mechanical steering lock are fully assembled and adjusted.**

5. REMOVE NUT (6) FROM PUSH-PULL ASSEMBLY (4) AND INSERT END OF PUSH-PULL ASSEMBLY INTO HOLE IN BRACKET (16). SECURE WITH NUT (6) AND NEW LOCKWASHER (7).



6. SECURE END OF PUSH-PULL ASSEMBLY (15) TO CONTROLLER ARM (18) WITH PIN (19), TWO WASHERS (20), AND NEW COTTER PIN (21).
7. INSTALL DRIVER'S POWER PLANT ACCESS PANEL (WP 0312 00).
8. ADJUST CABLE-ACTIVATED STEERING LOCK (WP 0301 00).

**END OF TASK**



CHAPTER 22

UNIT MAINTENANCE INSTRUCTIONS  
FOR TRANSFER AND FINAL DRIVES

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**WORK PACKAGE INDEX**

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| <u>Title</u>   | <u>Sequence No.</u> |
|--|---------------------|
| OPERATIONAL CHECK/ADJUST TRANSMISSION STEERING.....                | 0267 00             |
| REPLACE TRANSMISSION OIL LEVEL DIPSTICK, TUBE, AND ADAPTER.....    | 0268 00             |
| REPLACE TRANSMISSION OIL AND OIL FILTER ELEMENT.....               | 0269 00             |
| REPLACE TRANSMISSION OIL COOLER HOSES, FITTINGS, AND MOUNTING..... | 0270 00             |
| REPLACE TRANSMISSION OIL SAMPLING VALVE AND PRESSURE SWITCH.....   | 0271 00             |
| REPLACE DIFFERENTIAL PRESSURE SWITCH AND BYPASS PLUG.....          | 0272 00             |
| REPLACE FINAL DRIVE FILLER TUBE AND DIPSTICK.....                  | 0273 00             |
| REPLACE FINAL DRIVE.....   | 0274 00             |
| REPLACE FINAL DRIVE DIFFERENTIAL OIL SEAL.....                     | 0275 00             |
| REPLACE PROPELLER SHAFT AND UNIVERSAL JOINTS.....                  | 0276 00             |





**OPERATIONAL CHECK/ADJUST TRANSMISSION STEERING**

**0267 00**

**THIS WORK PACKAGE COVERS:**

Operational Check (page 0267 00-1).  
Adjustment (page 0267 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
Adjusting sleeve, tie rod steering (WP 0397 00, Item 7)  
Torque wrench, 3/8 inch drive, 0-200 in-lb (WP 0397 00, Item 78)  
Torque wrench, 1/2 inch drive, 0-175 ft-lb (WP 0397 00, Item 83)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
Vehicle blocked (TM 9-2350-366-10-1)  
Driver's power plant access panel removed (WP 0312 00)  
Air intake elbow removed (WP 0144 00)  
Engine exhaust elbow removed (WP 0149 00)

Materials/Parts

Preformed packing

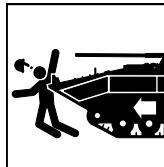
Personnel Required

Unit Mechanic 63T10  
Helper (H) (2)

**OPERATIONAL CHECK**

1. (H): PLACE TRANSMISSION CONTROLLER IN SL POSITION. START ENGINE AND ALLOW TO REACH OPERATING TEMPERATURE.
2. (H): RELEASE PARKING BRAKE AND LET ENGINE RUN AT IDLE.
3. WATCH BOTH TRACKS. HAVE HELPER ASSIST. IF THERE IS NO TRACK TENSION, ADJUSTMENT IS CORRECT.

**WARNING**



**If steering wheel is turned while engine is running at 1000 rpm or greater, the vehicle will pivot and personnel could be killed or equipment damaged.**

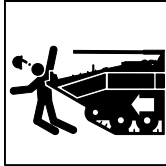
4. (H): PLACE TRANSMISSION CONTROLLER IN PV POSITION.
5. (H): TURN STEERING WHEEL LEFT AND RIGHT AT IDLE SPEED.
6. WATCH BOTH TRACKS. HAVE HELPER ASSIST. THERE WILL BE SOME CHANGE IN TRACK TENSION, BUT VEHICLE WILL NOT MOVE.
7. (H): PLACE TRANSMISSION CONTROLLER IN SL POSITION.
8. (H): WITH STEERING WHEEL IN CENTER POSITION, INCREASE ENGINE IDLE SPEED TO 1,000 RPM.

9. WATCH BOTH TRACKS. HAVE HELPER ASSIST. THERE MUST BE NO CHANGE IN TRACK TENSION OR TRANSMISSION SOUND.

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**WARNING**

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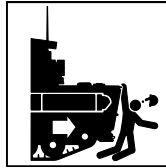


**If steering wheel is turned while engine is running at 1000 rpm or greater, the vehicle will pivot and personnel could be killed or equipment damaged.**

10. (H): SLOWLY INCREASE ENGINE SPEED TO 2,800 RPM.
11. WATCH BOTH TRACKS. HAVE HELPER ASSIST. THERE MUST BE NO CHANGE IN TRACK TENSION OR TRANSMISSION SOUND.

**NOTE**

If there is any change in track tension or if there is any hydrostatic noise from the transmission at any engine speed, the steering unit needs adjustment.

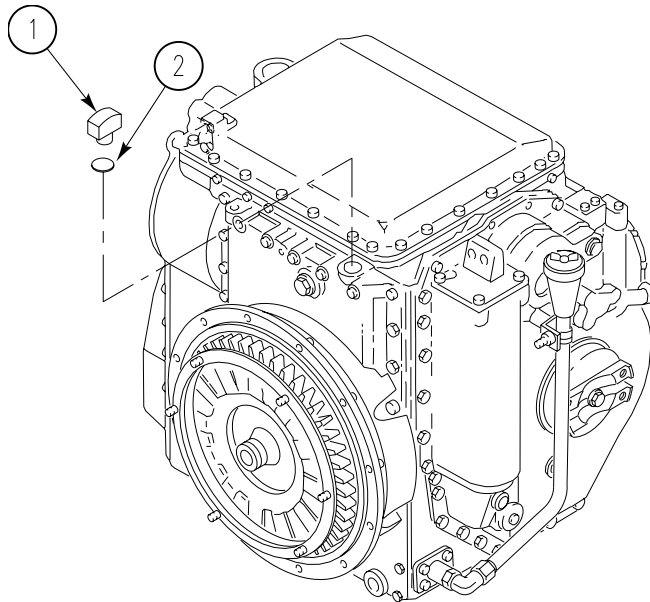
**ADJUSTMENT****WARNING**

Stop engine before making adjustment. See TM 9-2350-366-10-1.

**CAUTION**

Care must be taken to keep tools from falling into transmission during adjustment procedures.

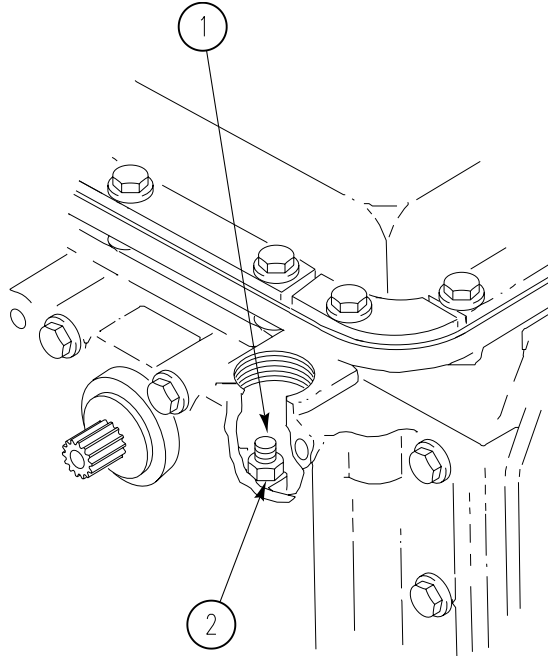
1. REMOVE ACCESS PLUG (1) AND PREFORMED PACKING (2) FROM STEERING CENTERING ADJUSTMENT ON LEFT REAR OF TRANSMISSION. DISCARD PACKING.



**NOTE**

**Be careful not to turn adjusting screw when loosening jamnut.**

2. LOOSEN JAMNUT (2) ON ADJUSTING SCREW (1). USE ADJUSTING SLEEVE.



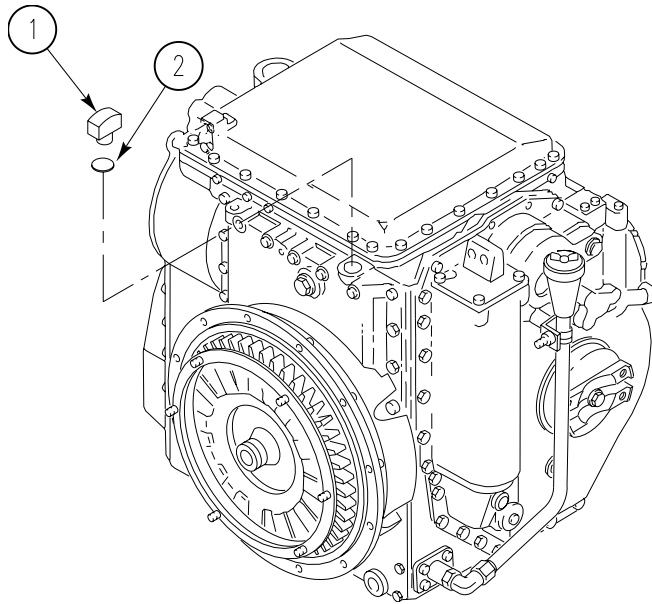
3. TURN ADJUSTING SCREW (1) 1/8 TURN AT A TIME. USE ADJUSTING SLEEVE. IF RIGHT TRACK HAD FORWARD TENSION, TURN ADJUSTING SCREW TO THE RIGHT. IF LEFT TRACK HAD FORWARD TENSION, TURN ADJUSTING SCREW TO THE LEFT.

**NOTE**

**Be careful not to turn adjusting screw when tightening jamnut.**

4. TORQUE JAMNUT (2) TO 140–150 IN-LB (16–18 N·m). USE ADJUSTING SLEEVE.

5. INSTALL PLUG (1) FINGERTIGHT AND CHECK ADJUSTMENT BY REPEATING Steps 1 - 11.



6. REPEAT Steps 1 - 3 AS NEEDED UNTIL BOTH TRACKS REMAIN SLACK AT ALL ENGINE SPEEDS.
7. REMOVE PLUG (1), AND INSTALL NEW PREFORMED PACKING (2) IN PLUG.
8. INSTALL PLUG (1) IN TRANSMISSION. TORQUE PLUG TO 50–60 FT-LB (66–81 N·m).
9. INSTALL ENGINE EXHAUST ELBOW (WP 0149 00).
10. INSTALL AIR INTAKE ELBOW (WP 0144 00).
11. INSTALL DRIVER'S POWER PLANT ACCESS PANEL (WP 0312 00).

**END OF TASK**



**REPLACE TRANSMISSION OIL LEVEL DIPSTICK, TUBE, AND ADAPTER**

**0268 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0268 00-1).  
 Installation (page 0268 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Socket wrench attachment (WP 0397 00, Item 52)  
 Torque wrench, 3/8 inch drive, 0-600 in-lb  
 (WP 0397 00, Item 79)

References

TM 9-2350-366-10-1

Materials/Parts

Gasket  
 Lockwasher  
 Preformed packing

Equipment Condition

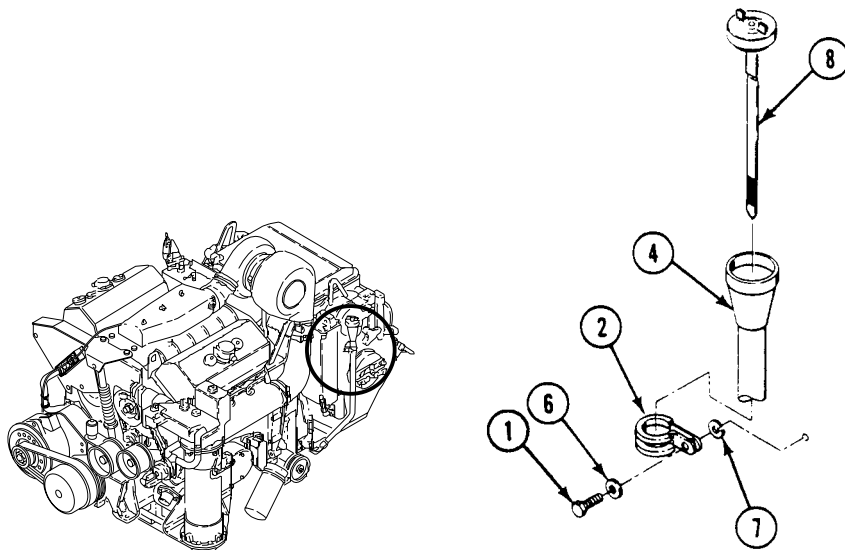
Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Power plant removed (WP 0106 00)  
 Transmission oil drained (WP 0264 00)

**REMOVAL**

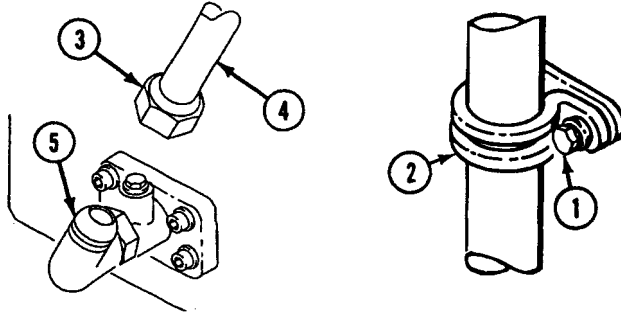
**NOTE**

**Transmission must be drained before starting task.**

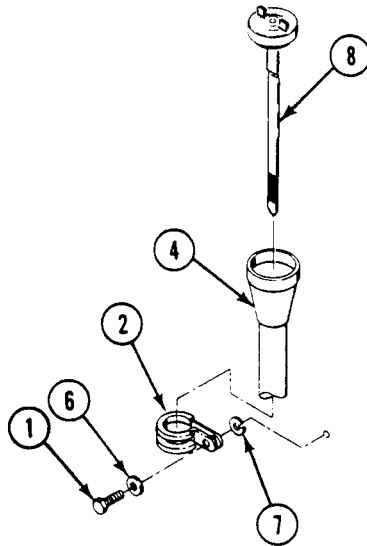
1. REMOVE DIPSTICK (8) FROM TUBE (4).



2. LOOSEN SCREW (1) ON CLAMP (2). DO NOT REMOVE SCREW.

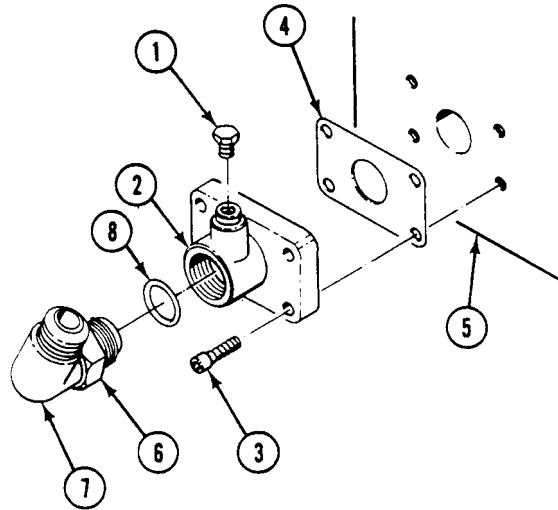


3. REMOVE COUPLING NUT (3) AND FILLER TUBE (4) FROM ELBOW (5).
4. REMOVE SCREW (1), WASHER (6), LOCKWASHER (7), CLAMP (2), AND FILLER TUBE (4) FROM ENGINE COMPARTMENT. DISCARD LOCKWASHER.





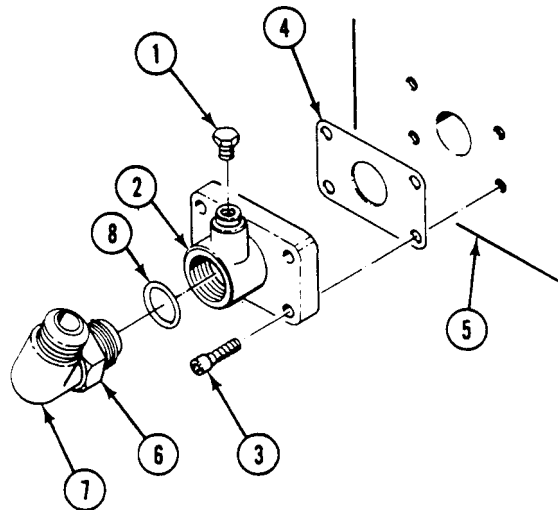
5. REMOVE PLUG (1) FROM TRANSMISSION ADAPTER (2).



6. REMOVE FOUR SCREWS (3), ADAPTER (2), AND GASKET (4) FROM TRANSMISSION (5). DISCARD GASKET.
7. LOOSEN JAM NUT (6) ON ELBOW (7). REMOVE ELBOW AND PREFORMED PACKING (8) FROM ADAPTER (2). DISCARD PREFORMED PACKING.

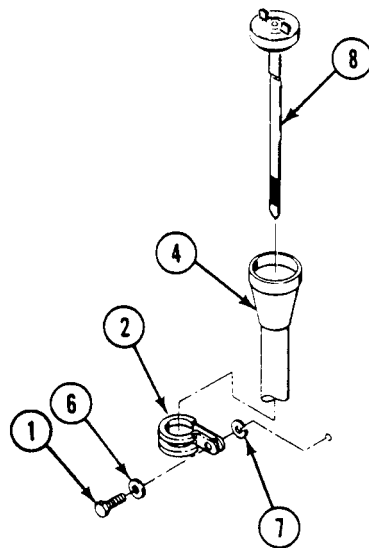
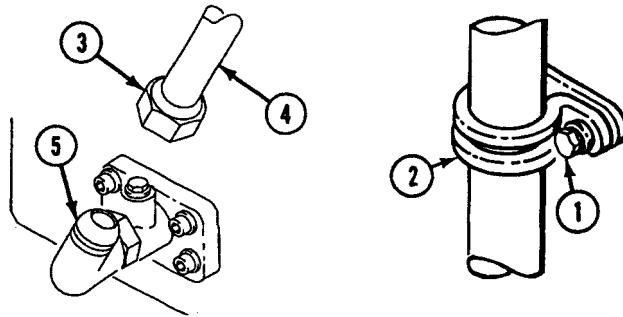
**INSTALLATION**

1. INSTALL NEW PREFORMED PACKING (8) ON ELBOW (7). INSTALL ELBOW ON ADAPTER (2) AND THREAD JAM NUT (6). DO NOT TIGHTEN JAM NUT.



2. INSTALL NEW GASKET (4) AND ADAPTER (2) ON TRANSMISSION (5) WITH FOUR SCREWS (3). TIGHTEN SCREWS TO 20-25 LB-FT (27-34 N·m) TORQUE. USE TORQUE WRENCH.
3. INSTALL PLUG (1) ON ADAPTER (2).

4. SLIDE CLAMP (2) ON FILLER TUBE (4). POSITION TUBE ON ELBOW (5) AND THREAD COUPLING NUT (3). DO NOT TIGHTEN NUT. SECURE CLAMP TO TRANSMISSION WITH WASHER (6), NEW LOCKWASHERS (7), AND SCREW (1).
5. TIGHTEN JAM NUT (3) AND COUPLING NUT (5).
6. INSTALL DIPSTICK (8) IN FILLER TUBE (4).



7. FILL TRANSMISSION WITH OIL (WP 0264 00).
8. INSTALL POWER PLANT (WP 0106 00).

**END OF TASK**

**REPLACE TRANSMISSION OIL AND OIL FILTER ELEMENT**

**0269 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0269 00-1)  
 Installation (page 0269 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Torque wrench (WP 0397 00, Item 83)

References

TM 9-2350-366-10-1

Materials/Parts

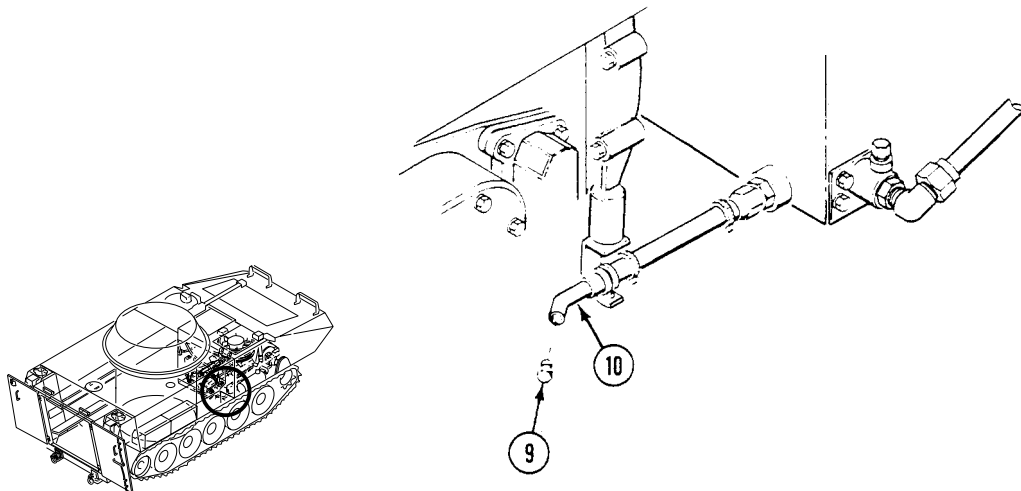
Automotive grease (WP 0399 00, Item 11)  
 Transmission oil  
 Container (12 gallons)  
 Preformed packing (2)  
 Transmission parts kit  
 Screw (3)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Front power plant access doors removed  
 (TM 9-2350-366-10-1)  
 Power plant bottom access cover removed (WP 0316 00)  
 Air intake elbow removed (WP 0139 00)

**REMOVAL**

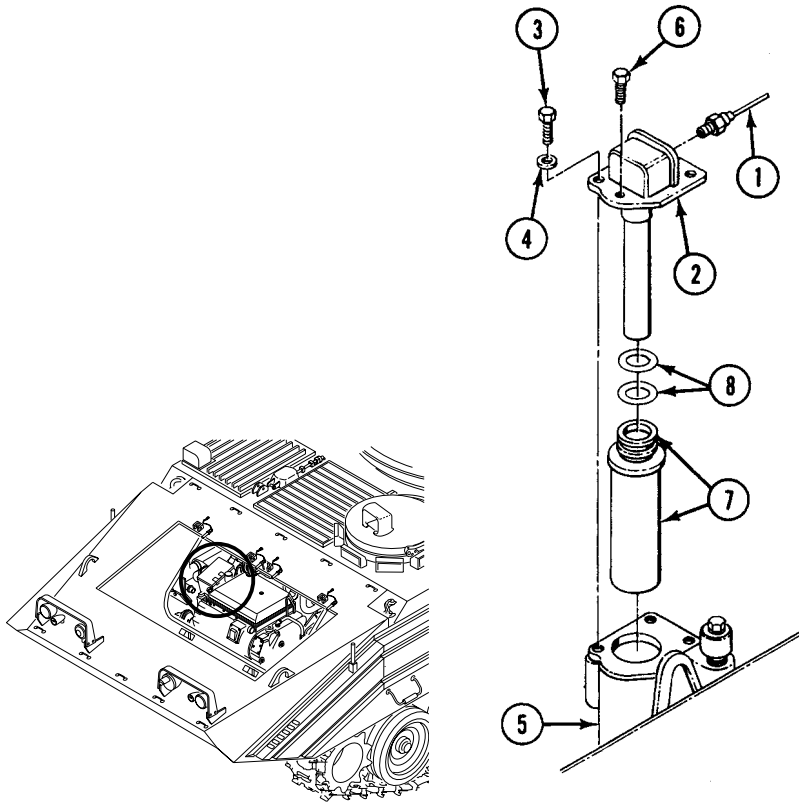
1. PLACE CONTAINER UNDER HULL BOTTOM ACCESS HOLE.
2. REMOVE PLUG (9) FROM DRAIN TUBE (10). DRAIN TRANSMISSION OIL INTO CONTAINER. DISCARD OIL IN ACCORDANCE WITH ARMY REGULATIONS.



**NOTE**

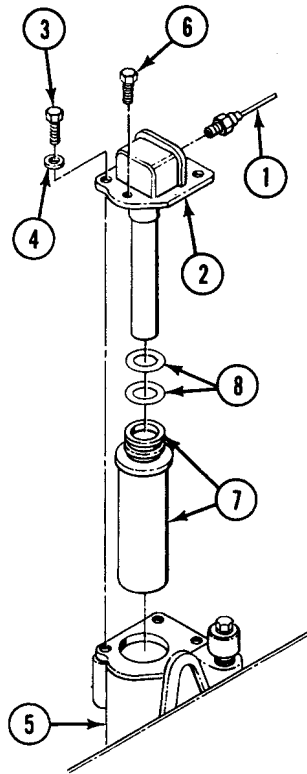
**Oil filter element MUST be replaced when transmission oil is drained.**

3. DISCONNECT LEAD (1) FROM FILTER HEAD (2).
4. REMOVE THREE SCREWS (3), WASHERS (4), AND FILTER HEAD (2) FROM FILTER BODY (5). USE TWO SCREWS AS JACK SCREWS (6). DISCARD THREE SCREWS.
5. REMOVE FILTER ELEMENT (7) AND TWO PREFORMED PACKINGS (8) FROM FILTER BODY (5). DISCARD PACKINGS. DISCARD FILTER ELEMENT IN ACCORDANCE WITH ARMY REGULATIONS.
6. REMOVE OIL FROM FILTER BODY (5).

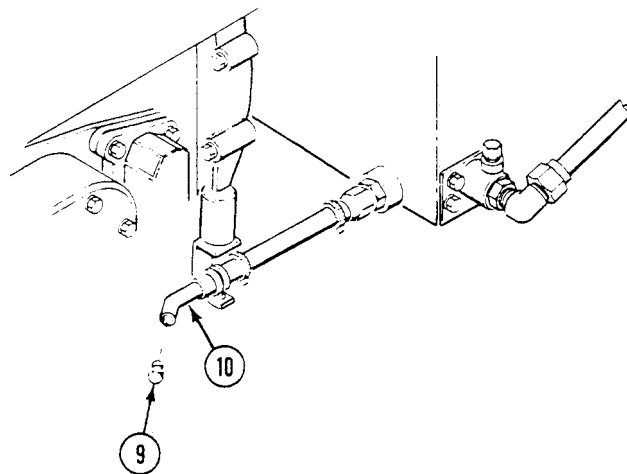
**INSTALLATION**

1. LUBRICATE TWO NEW PACKINGS (8) WITH GREASE. See TM 9-2350-366-10-1.
2. INSTALL NEW PREFORMED PACKING ON NEW ELEMENT (7). INSTALL ELEMENT IN FILTER BODY (5).
3. INSTALL TWO NEW PREFORMED PACKINGS (8) ON FILTER HEAD (2). INSTALL FILTER HEAD ON FILTER BODY (5). SECURE WITH THREE NEW SCREWS (3) AND WASHERS (4). TIGHTEN SCREWS TO 23-25 LB-FT (30-34 N·m) TORQUE.

4. CONNECT LEAD (1) TO FILTER HEAD (2).



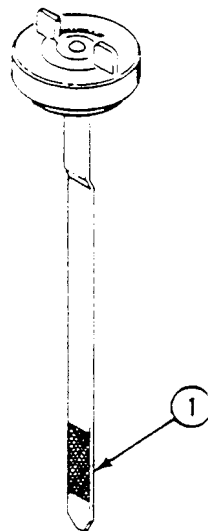
5. INSTALL PLUG (9) ON DRAIN TUBE (10).



**NOTE**

Transmission must be serviced with operational lubricant in accordance with transmission tag on filler neck and your LO. See TM 9-2350-366-10-1.

6. FILL TRANSMISSION WITH OIL TO BRING LEVEL BETWEEN ADD AND FULL MARK ON DIPSTICK (1). SEE TRANSMISSION TAG ON FILLER NECK AND YOUR LO. See TM 9-2350-366-10-1.
7. INSTALL AIR INTAKE ELBOW (WP 0139 00).
8. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1.
9. RUN ENGINE FOR 3 TO 5 MINUTES. CHECK FLUID LEVEL. TRANSMISSION OIL LEVEL SHOULD BE BETWEEN ADD AND FULL ON DIPSTICK (1). CHECK FOR LEAKS.



10. STOP ENGINE. See TM 9-2350-366-10-1.
11. INSTALL POWER PLANT BOTTOM ACCESS COVER (WP 0316 00).
12. INSTALL FRONT POWER PLANT FRONT ACCESS DOORS. See TM 9-2350-366-10-1.

**END OF TASK**

# REPLACE TRANSMISSION OIL COOLER HOSES, FITTINGS, AND MOUNTING

0270 00

## THIS WORK PACKAGE COVERS:

Removal (page 0270 00-1).  
 Installation (page 0270 00-6).

## INITIAL SETUP:

Maintenance Level  
 Unit

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Crowfoot attachment, socket (WP 0397 00, Item 14)
- Socket wrench set, 3/8 drive (WP 0397 00, Item 70)
- Torque wrench (WP 0397 00, Item 78)
- Torque wrench (WP 0397 00, Item 83)

Materials/Parts

- Sealing compound (WP 0397 00, Item 55)
- Petrolatum (WP 0397 00, Item 60)
- Wiping rag (WP 0397 00, Item 64)
- Gasket
- Locknut
- Lockscrew (4)
- Lockscrew (9)
- Lockscrew (15)
- Lockscrew (2)

Packing  
 Packing  
 Strap (2)

Personnel Required

Unit Mechanic 63T10

References

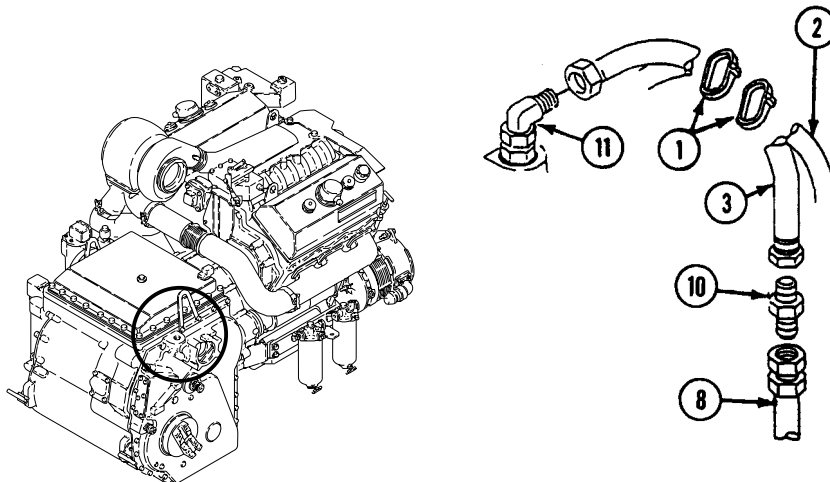
TM 9-2350-366-10-1

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Power plant removed (WP 0106 00)
- Transmission oil drained (WP 0264 00)

## REMOVAL

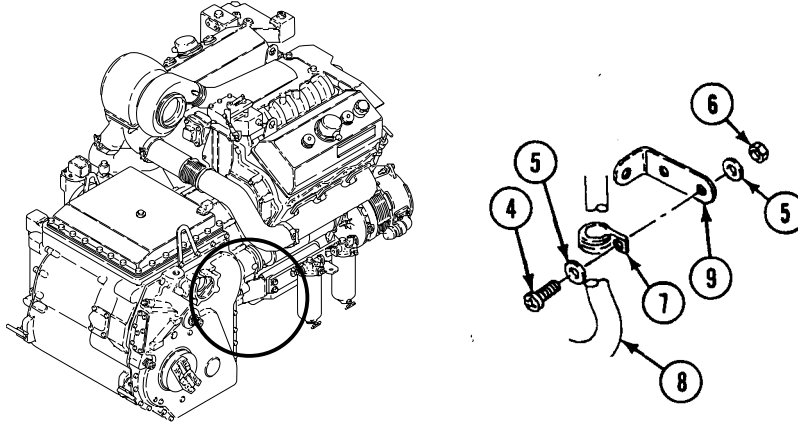
1. REMOVE TWO STRAPS (1) FROM WIRING HARNESS (2) AND TRANSMISSION OIL INLET TUBE (3). DISCARD STRAPS.



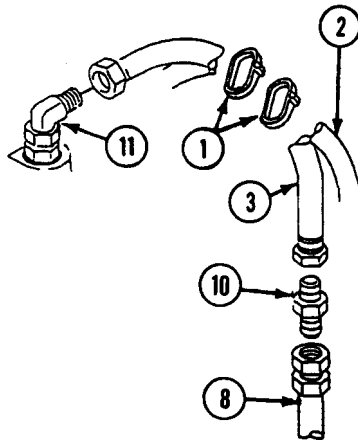
**REPLACE TRANSMISSION OIL COOLER HOSES, FITTINGS, AND MOUNTING —**  
**Continued**

0270 00

2. REMOVE SCREW (4), TWO WASHERS (5), LOCKNUT (6), AND CLAMP (7) SECURING TRANSMISSION OIL INLET HOSE (8) TO BRACKET (9). DISCARD LOCKNUT.



3. REMOVE TRANSMISSION OIL INLET TUBE (3) FROM NIPPLE (10).



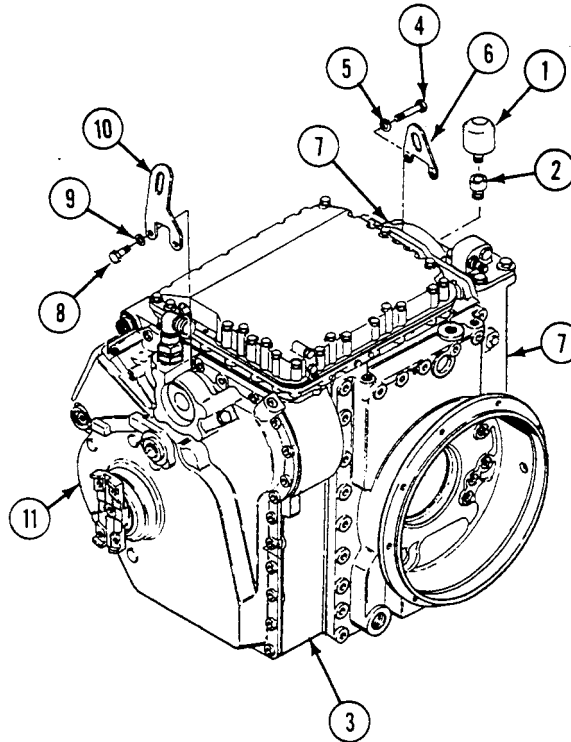
4. REMOVE TRANSMISSION OIL INLET TUBE (3) FROM ELBOW (11).
5. REMOVE NIPPLE (10) FROM TRANSMISSION OIL INLET HOSE (8).



**NOTE**

Do Steps 6 - 12 only if elbow needs to be replaced.

6. REMOVE BREATHER (1) AND REDUCER (2) FROM TOP OF TRANSMISSION HOUSING (7).



7. REMOVE TWO LOCKSCREWS (4), WASHERS (5), AND LIFTING BRACKET (6) FROM LEFT END COVER (7). DISCARD LOCKSCREWS.
8. REMOVE TWO LOCKSCREWS (8), WASHERS (9), AND LIFTING BRACKET (10) FROM RIGHT END COVER (11). DISCARD LOCKSCREWS.

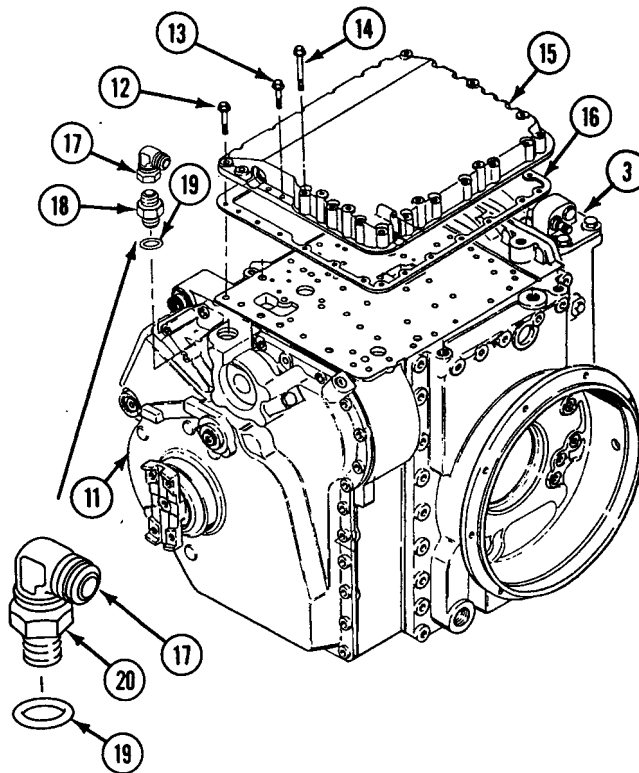
**CAUTION**

Contamination of control valves can cause transmission failure. Make sure dirt does not get into control valves when top cover is removed.

**NOTE**

Three different length lockscrews are used to secure top cover. Mark location of top cover lockscrews to ensure proper installation.

9. REMOVE NINE LOCKSCREWS (12), TWO LOCKSCREWS (13), 15 LOCKSCREWS (14), COVER (15), AND GASKET (16) FROM TRANSMISSION HOUSING (3). DISCARD LOCKSCREWS AND GASKET.

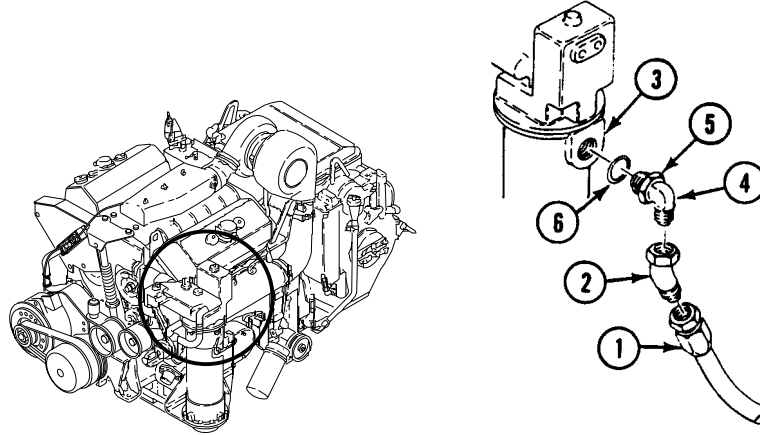


10. LOOSEN LOCKNUT (20) AND REMOVE ELBOW (17) AND PACKING (19) FROM RIGHT END COVER (11). DISCARD PACKING.

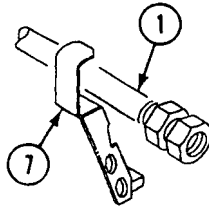
REPLACE TRANSMISSION OIL COOLER HOSES, FITTINGS, AND MOUNTING —  
Continued

0270 00

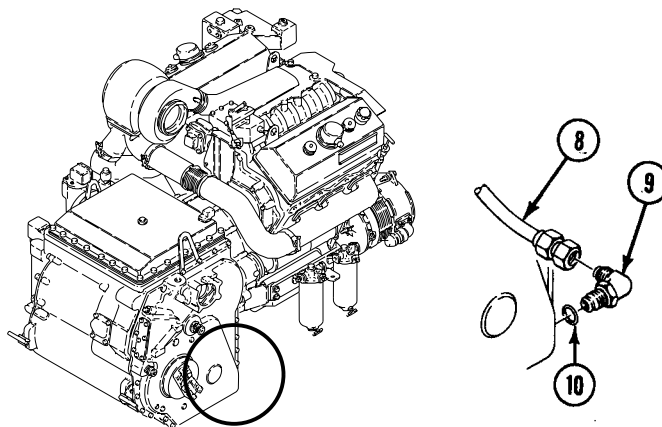
11. REMOVE HOSE (1) FROM ELBOW (2) ON OIL COOLER OUTLET PORT (3).



12. REMOVE ELBOW (2) FROM ELBOW (4) ON OIL COOLER OUTLET PORT (3).  
13. LOOSEN JAM NUT (5) AND REMOVE ELBOW (4) AND PREFORMED PACKING (6) FROM OIL COOLER OUTLET PORT (3). DISCARD PACKING.  
14. REMOVE HOSE (1) FROM BRACKET (7).



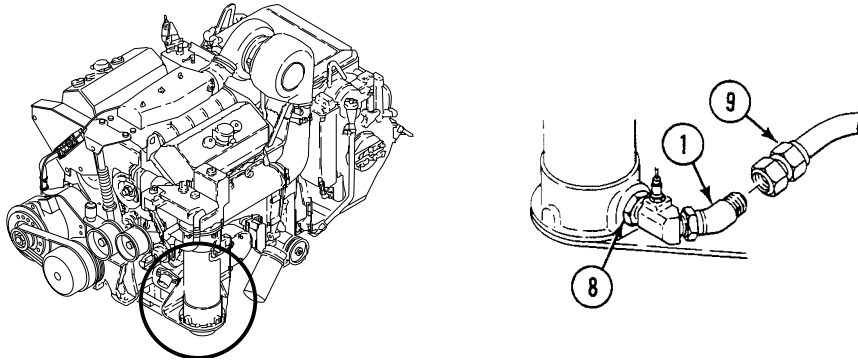
15. REMOVE HOSE (8) FROM ELBOW (9) ON TRANSMISSION OUTLET PORT. REMOVE ELBOW AND PREFORMED PACKING (10) FROM TRANSMISSION OUTLET PORT.



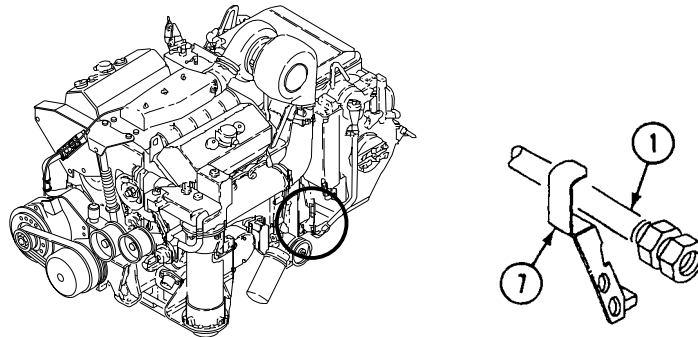
**REPLACE TRANSMISSION OIL COOLER HOSES, FITTINGS, AND MOUNTING —**  
**Continued**

**0270 00**

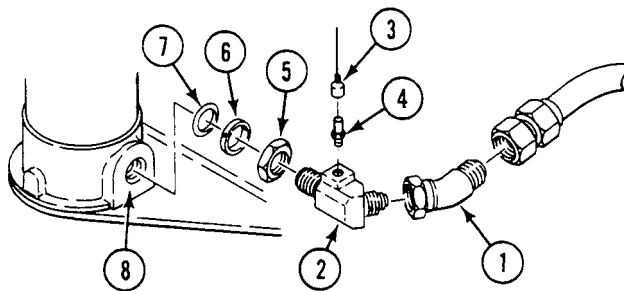
16. REMOVE HOSE (9) FROM ELBOW (1) ON OIL COOLER INLET PORT (8).



17. REMOVE HOSE (1) FROM BRACKET (7).



18. REMOVE ELBOW (1) FROM TEE (2).



19. DISCONNECT CIRCUIT 327 LEAD (3) FROM TRANSMISSION OIL HIGH TEMPERATURE SWITCH (4).
20. REMOVE TRANSMISSION OIL HIGH TEMPERATURE SWITCH (4) FROM TEE (2).
21. LOOSEN JAM NUT (5) AND REMOVE TEE (2), RETAINER (6), AND PREFORMED PACKING (7) FROM OIL COOLER INLET PORT (8). DISCARD PACKING.

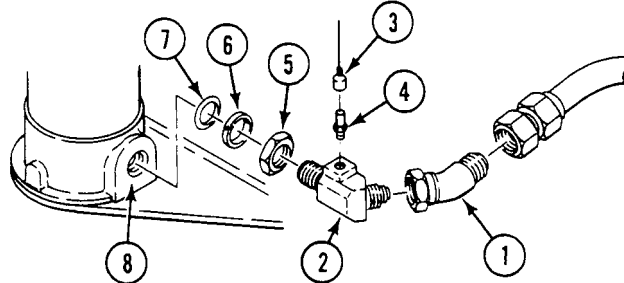
**INSTALLATION**

1. APPLY LIGHT COAT OF SEALING COMPOUND TO CLEAN EXTERNAL TAPERED THREADS. DO NOT APPLY SEALANT BEYOND SMALL TAPERED THREADS.

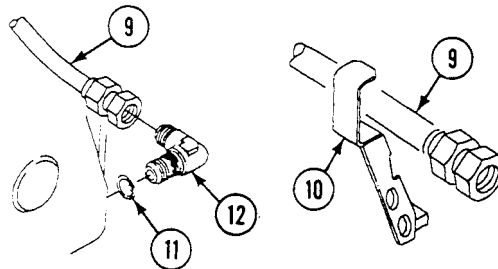
**REPLACE TRANSMISSION OIL COOLER HOSES, FITTINGS, AND MOUNTING —**  
**Continued**

**0270 00**

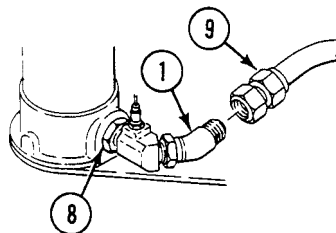
2. INSTALL JAM NUT (5) ON TEE (2).



3. INSTALL NEW PREFORMED PACKING (7), RETAINER (6), AND TEE (2) ON OIL COOLER INLET PORT (8). TIGHTEN JAM NUT (5).
4. INSTALL TRANSMISSION OIL HIGH TEMPERATURE SWITCH (4) ON TEE (2).
5. CONNECT CIRCUIT 327 LEAD (3) TO TRANSMISSION OIL HIGH TEMPERATURE SWITCH (4).
6. INSTALL ELBOW (1) ON TEE (2).
7. ROUTE HOSE (9) THROUGH BRACKET (10) TO OUTLET PORT ON TRANSMISSION. INSTALL NEW PREFORMED PACKING (11) AND ELBOW (12) IN OUTLET PORT ON TRANSMISSION. INSTALL HOSE ON ELBOW.



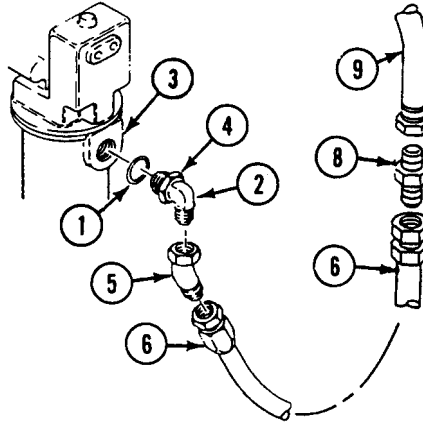
8. INSTALL HOSE (9) ON ELBOW (1) ON OIL COOLER INLET PORT (8).



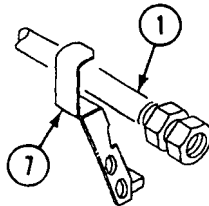
**REPLACE TRANSMISSION OIL COOLER HOSES, FITTINGS, AND MOUNTING —**  
**Continued**

**0270 00**

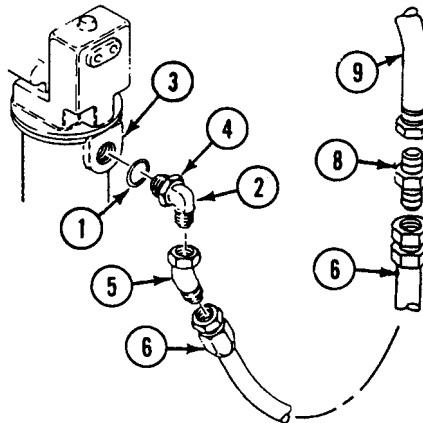
9. INSTALL NEW PREFORMED PACKING (1) AND ELBOW (2) ON OIL COOLER OUTLET PORT (3). TIGHTEN JAMNUT (4).



10. INSTALL ELBOW (5) ON ELBOW (2).
11. INSTALL HOSE (6) ON ELBOW (5).
12. ROUTE HOSE (1) THROUGH BRACKET (7).



13. INSTALL NIPPLE (8) ON TRANSMISSION OIL INLET HOSE (6).



14. INSTALL TRANSMISSION OIL INLET TUBE (9) ON NIPPLE (8).

**CAUTION**

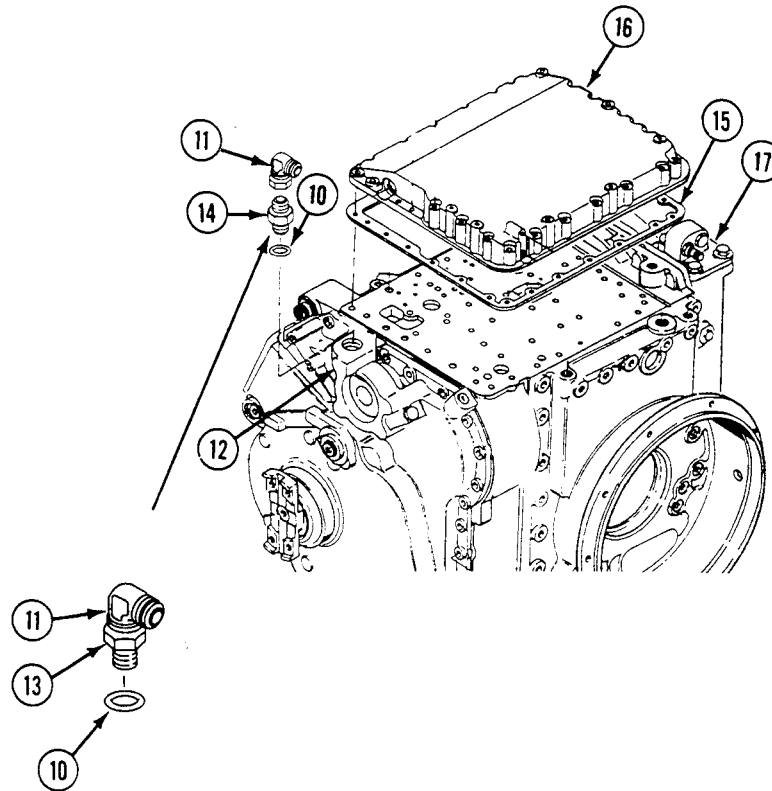
Contamination of control valves can cause transmission failure. Make sure dirt does not get into control valves while top cover is removed.

**NOTE**

If elbow (11) was removed, do Steps 15 - 24.

Ensure elbow (11) is pointing in right direction during installation. Use mark made during removal. If needed, temporarily install transmission oil inlet tube on elbow. Ensure top cover can be installed after elbow is tightened.

15. LUBRICATE NEW PREFORMED PACKING (10) WITH A THIN COAT OF PETROLATUM. INSTALL PACKING AND ADAPTER (14) IN RIGHT END COVER (12). TIGHTEN ADAPTER TO 127-140 LB-FT (172-190 N·m) TORQUE.

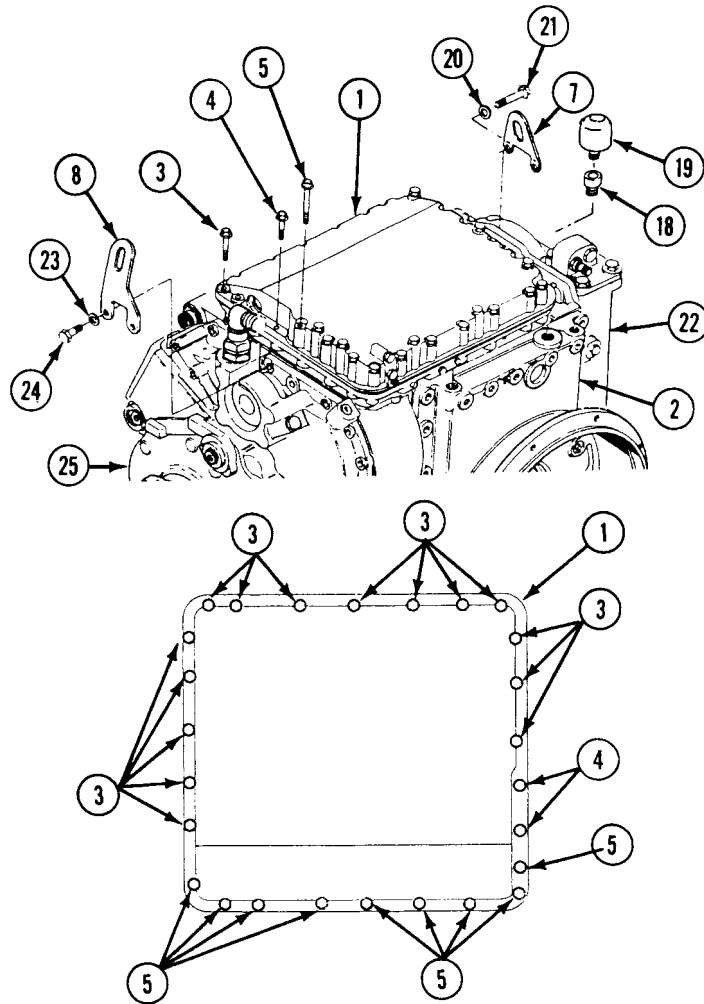


16. INSTALL ELBOW (11) ON ADAPTER (14). HOLD ADAPTER AND TIGHTEN ELBOW TO 160-182 LB-FT (217-247 N·m) TORQUE.
17. PLACE NEW GASKET (15) AND TOP COVER (16) ON TRANSMISSION (17).

**NOTE**

Three different length lockscrews are used to secure top cover. Ensure all lockscrews are located properly before tightening.

18. SECURE TOP COVER (1) TO TRANSMISSION HOUSING (2) WITH 15 LOCKSCREWS (3), TWO LOCKSCREWS (4), AND NINE LOCKSCREWS (5). TIGHTEN ALL LOCKSCREWS (3), (4) AND (5) TO 156-180 LB-IN (18-20 N·m) TORQUE.



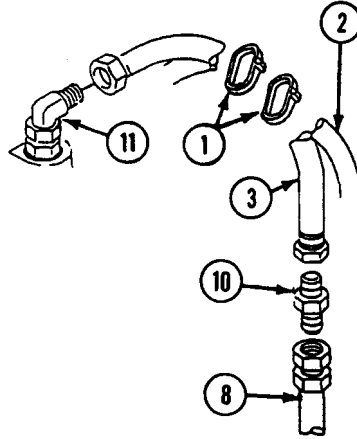
19. INSTALL REDUCER (18) IN TOP OF TRANSMISSION HOUSING (2). TIGHTEN REDUCER TO 144-192 LB-IN (16-22 N·m) TORQUE.
20. INSTALL BREATHER IN REDUCER (19) IN REDUCER (18). TIGHTEN BREATHER TO 168-192 LB-IN (19-22 N·m) TORQUE.
21. INSTALL LIFTING BRACKET (7) WITH BRACKET LEANING TOWARDS THE CENTER OF THE TRANSMISSION, TWO WASHERS (20), AND NEW LOCKSCREWS (21) ON LEFT END COVER (22).
22. INSTALL LIFTING BRACKET (8) WITH BRACKET LEANING TOWARDS THE CENTER OF THE TRANSMISSION, TWO WASHERS (23), AND NEW LOCKSCREWS (24) AND ON RIGHT END COVER (25).



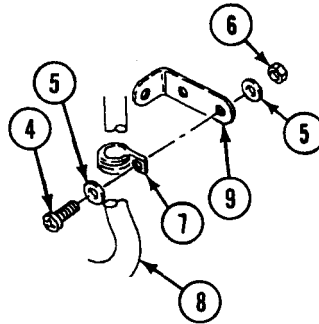
**REPLACE TRANSMISSION OIL COOLER HOSES, FITTINGS, AND MOUNTING —  
Continued**

0270 00

23. TIGHTEN LOCKSCREWS (21) AND (24) TO 156-180 LB-IN (18-20 N·m) TORQUE.
24. INSTALL TRANSMISSION OIL INLET TUBE (9) ON ELBOW (10).



25. INSTALL TRANSMISSION OIL INLET HOSE (8), CLAMP (7), TWO WASHERS (5), SCREW (4), AND NEW LOCKNUT (6) ON BRACKET (9).



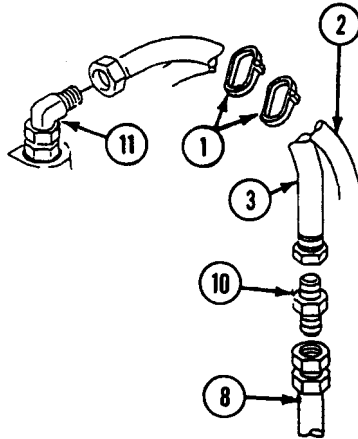
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**REPLACE TRANSMISSION OIL COOLER HOSES, FITTINGS, AND MOUNTING —**  
**Continued**

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**0270 00**

26. SECURE WIRING HARNESS (2) TO TRANSMISSION OIL INLET TUBE (3) WITH TWO NEW STRAPS (1).



27. FILL TRANSMISSION WITH OIL (WP 0264 00).  
28. INSTALL POWER PLANT (WP 0106 00).

**END OF TASK**

# REPLACE TRANSMISSION OIL SAMPLING VALVE AND PRESSURE SWITCH

0271 00

## THIS WORK PACKAGE COVERS:

Removal (page 0271 00-1).  
 Installation (page 0271 00-2).

## INITIAL SETUP:

### Maintenance Level

Unit

### References

TM 9-2350-366-10-1

### Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

### Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Power plant access panel removed (WP 0308 00)

### Materials/Parts

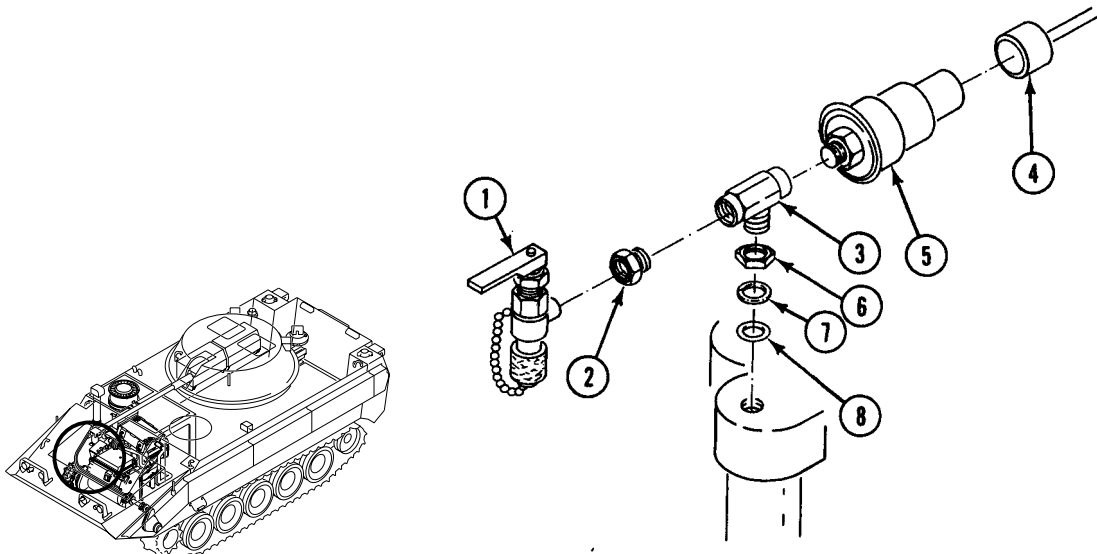
Sealing compound (WP 0397 00, Item 55)  
 Preformed packing  
 Retainer

### Personnel Required

Unit Mechanic 63T10

## REMOVAL

1. REMOVE VALVE (1) FROM BUSHING (2).
2. REMOVE BUSHING (2) FROM TEE (3).
3. DISCONNECT CIRCUIT 366 LEAD (4) FROM SWITCH (5).
4. REMOVE SWITCH (5) FROM TEE (3).
5. REMOVE TEE (3) WITH TUBE NUT (6), RETAINER (7), AND PREFORMED PACKING (8) FROM TRANSMISSION. DISCARD PACKING AND RETAINER.



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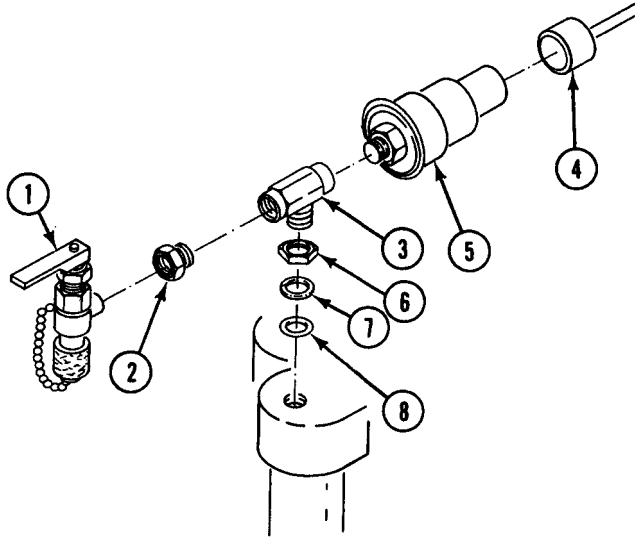
**REPLACE TRANSMISSION OIL SAMPLING VALVE AND PRESSURE SWITCH —**  
**Continued**

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0271 00

**INSTALLATION**

1. INSTALL NEW PREFORMED PACKING (8), NEW RETAINER (7), AND TEE (3) WITH TUBE NUT (6) ON TRANSMISSION.



2. APPLY SEALING COMPOUND TO MALE THREADS OF SWITCH (5), AND INSTALL SWITCH IN TEE (3).
3. CONNECT CIRCUIT 366 LEAD (4) TO SWITCH (5).
4. APPLY SEALING COMPOUND TO MALE THREADS OF BUSHING (2), AND INSTALL BUSHING IN TEE (3).
5. INSTALL VALVE (1) IN BUSHING (2).
6. INSTALL POWER PLANT ACCESS PANEL (WP 0308 00).

**END OF TASK**

**REPLACE DIFFERENTIAL PRESSURE SWITCH AND BYPASS PLUG**

**0272 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0272 00-1).  
 Installation (page 0272 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Power plant access panel removed (WP 0308 00)

Materials/Parts

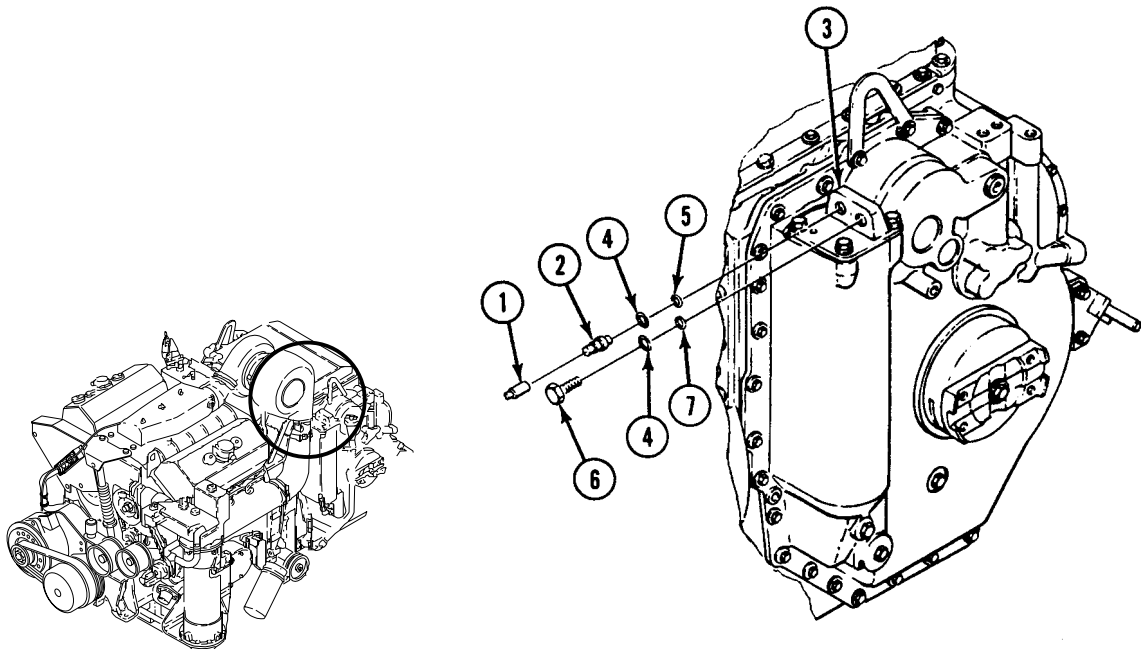
Preformed packing (2)  
 Preformed packing  
 Preformed packing

Personnel Required

Unit Mechanic 63T10

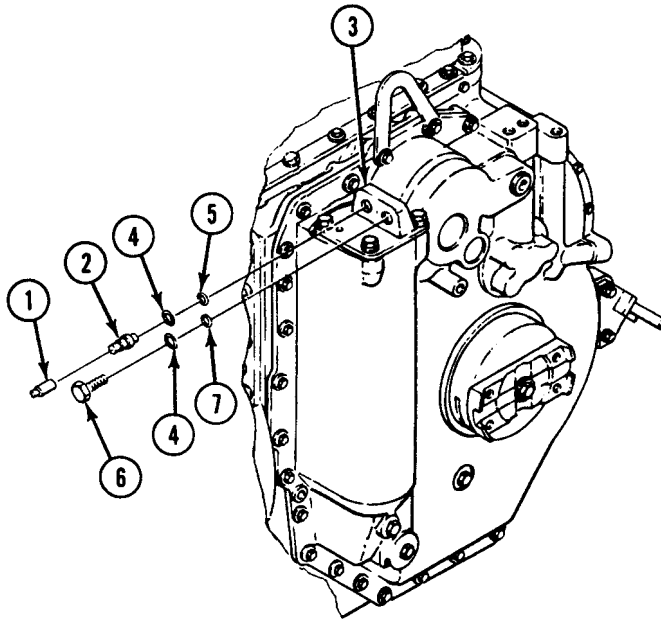
**REMOVAL**

1. DISCONNECT ELECTRICAL CONNECTOR (1) FROM SWITCH (2) ON FILTER HEAD (3).
2. REMOVE SWITCH (2), PACKING (4), AND PACKING (5) FROM FILTER HEAD (3). DISCARD PACKINGS.
3. REMOVE PLUG (6), PACKING (4), AND PACKING (7) FROM FILTER HEAD (3). DISCARD PACKINGS.



**INSTALLATION**

1. INSTALL NEW PACKING (7), NEW PACKING (4), AND PLUG (6) IN FILTER HEAD (3).
2. INSTALL NEW PACKING (5), NEW PACKING (4), AND SWITCH (2) IN FILTER HEAD (3).
3. CONNECT ELECTRICAL CONNECTOR (1) TO SWITCH (2) ON FILTER HEAD (3).



4. INSTALL POWER PLANT ACCESS PANEL (WP 0308 00).

**END OF TASK**

**REPLACE FINAL DRIVE FILLER TUBE AND DIPSTICK**

**0273 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0273 00-1).  
 Installation (page 0273 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

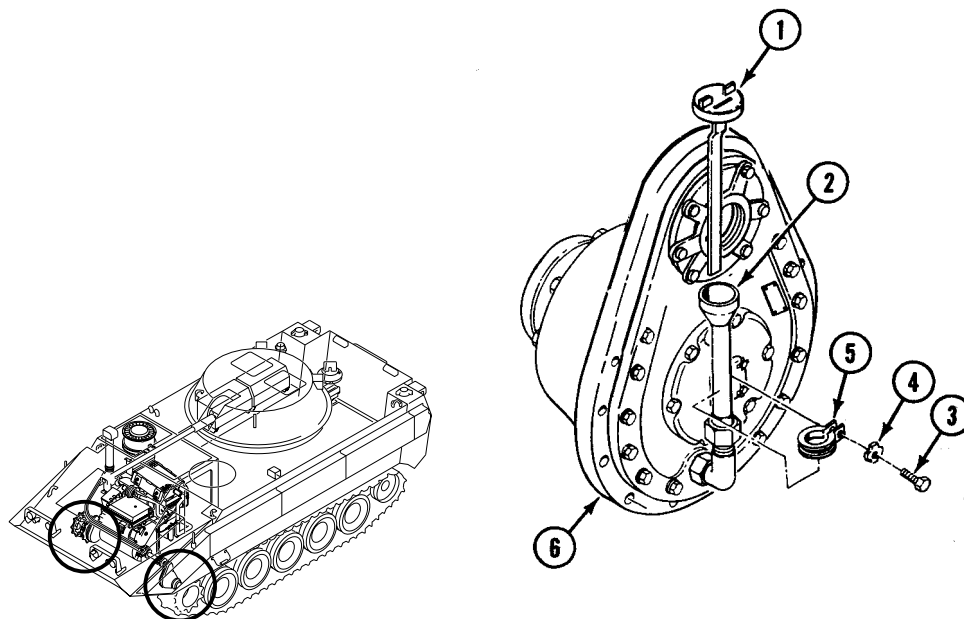
Antiseize compound (WP 0399 00, Item 10)  
 Sealing compound (WP 0399 00, Item 55)  
 Preformed packing  
 Tablock washer

Equipment Condition

Power plant front access panel removed (WP 0308 00)  
 Final drive removed (WP 0274 00).

**REMOVAL**

1. TURN DIPSTICK (1) TO THE LEFT AND REMOVE FROM OIL FILLER TUBE (2).
2. REMOVE SCREW (3), TABLOCK WASHER (4), AND CLAMP (5) FROM FINAL DRIVE (6). DISCARD TABLOCK WASHER.



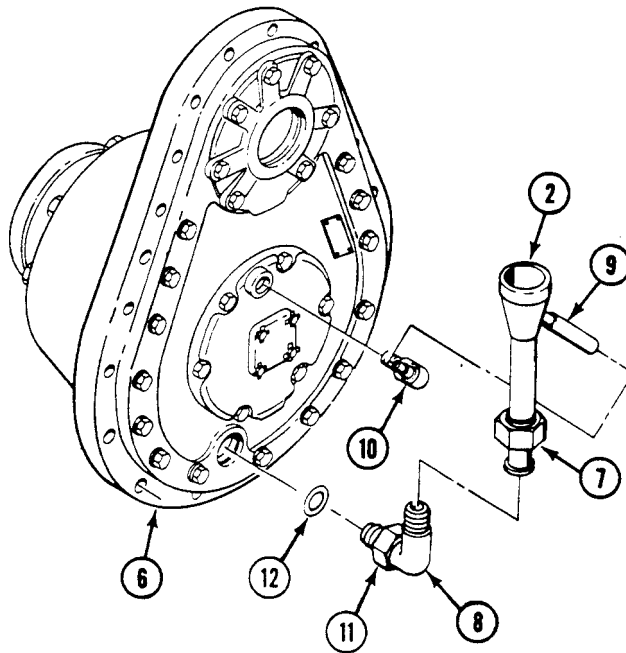
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**REPLACE FINAL DRIVE FILLER TUBE AND DIPSTICK — Continued**

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**0273 00**

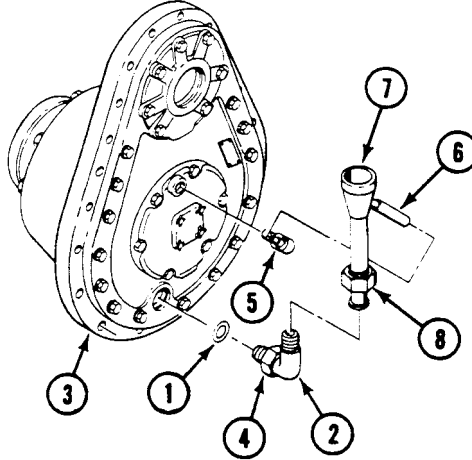
3. REMOVE NUT (7) FROM ELBOW (8).
4. REMOVE VENT TUBE (9) FROM ELBOW (10).
5. REMOVE FILLER TUBE (2) AND VENT TUBE (9) FROM FINAL DRIVE (6).
6. REMOVE ELBOW (10) FROM FINAL DRIVE (6).
7. LOOSEN NUT (11). REMOVE ELBOW (8) AND PREFORMED PACKING (12) FROM FINAL DRIVE (6). DISCARD PACKING.



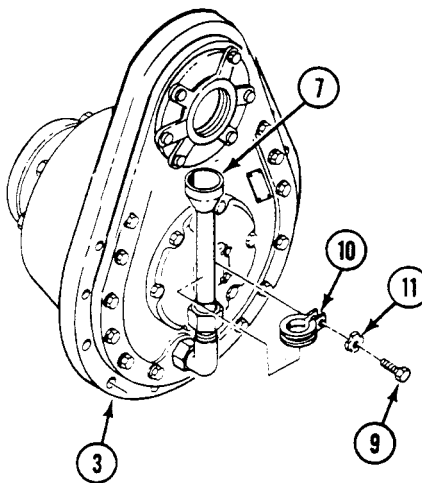


**INSTALLATION**

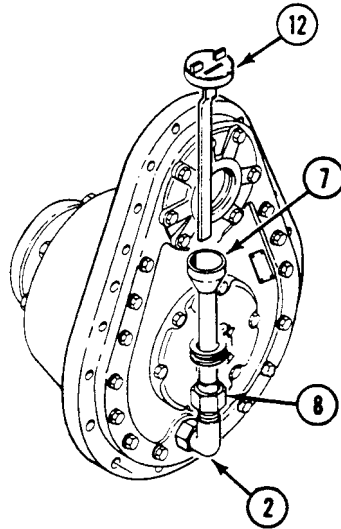
1. INSTALL NEW PREFORMED PACKING (1) AND ELBOW (2) IN FINAL DRIVE (3). SECURE WITH NUT (4).



2. APPLY A LIGHT COAT OF SEALING COMPOUND TO THREADS OF ELBOW (5).
3. INSTALL ELBOW (5) IN FINAL DRIVE (3).
4. INSTALL VENT TUBE (6) ON ELBOW (5).
5. CONNECT FILLER TUBE (7) TO VENT TUBE (6) AND ELBOW (2). DO NOT TIGHTEN NUT (8).
6. APPLY A LIGHT COAT OF ANTISEIZE COMPOUND TO THREADS OF SCREW (9).
7. SECURE FILLER TUBE (7) TO FINAL DRIVE (3) WITH CLAMP (10), NEW TABLOCK WASHER (11), AND SCREW (9).



8. TIGHTEN NUT (8) TO SECURE FILLER TUBE (7) TO ELBOW (2).



9. INSTALL DIPSTICK (12) IN FILLER TUBE (7) AND TURN TO THE RIGHT TO LOCK.  
10. INSTALL FINAL DRIVE (WP 0274 00).  
11. INSTALL POWER PLANT FRONT ACCESS PANEL (WP 0308 00).

**END OF TASK**

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**REPLACE FINAL DRIVE**

**0274 00**

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**THIS WORK PACKAGE COVERS:**

- Removal (page 0274 00-1).
- Cleaning (page 0274 00-2).
- Installation (page 0274 00-3).

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**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

- General mechanic's tool kit WP 0397 00, Item 64
- Lifting bar WP 0397 00, Item 8
- Torque wrench WP 0397 00, Item 79

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Front power plant doors removed (TM 9-2350-366-10-1)
- Final drive yoke removed (WP 0276 00)
- Track removed from drive sprocket (WP 0298 00)
- Track drive sprocket removed from final drive (WP 0296 00)
- Side VISM0D removed (WP 0314 00)

Materials/Parts

- Antiseize compound WP 0399 00, Item 10
- Cleaning solvent WP 0399 00, Item 17

Personnel Required

Unit Mechanic 63T10

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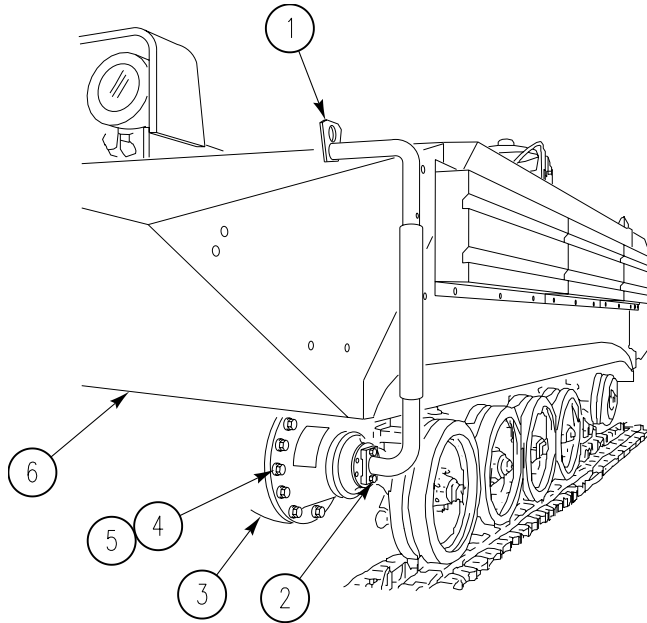
**REMOVAL**

1. IF LEFT FINAL DRIVE IS TO BE REMOVED, REMOVE HULL FRONT ACCESS COVER. REMOVE LEFT FINAL DRIVE SPEEDOMETER CABLE AND ADAPTER (WP 0197 00).
2. DRAIN FINAL DRIVE. See LO TM 9-2350-366-10-1.

**WARNING**

The final drive is heavy and can cause back injury if handled improperly. Be sure to use a hoist or helper to remove final drive.

3. SECURE LIFTING BAR (1) TO FINAL DRIVE (3) WITH TWO SPROCKET MOUNTING SCREWS (2).

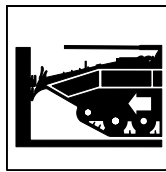


4. ATTACH SUITABLE LIFTING DEVICE OF AT LEAST 165 LB (75 KG) CAPACITY TO LIFTING BAR (1).
5. REMOVE 17 SCREWS (4), WASHERS (5), AND FINAL DRIVE (3) FROM HULL (6).

**CLEANING**

1. CLEAN FINAL DRIVE AND HULL MOUNTING SURFACE WITH DRY CLEANING SOLVENT.
2. REPLACE FINAL DRIVE THAT SHOWS CRACKS OR LEAKS OTHER THAN DIFFERENTIAL OIL SEAL LEAK. LEAKING DIFFERENTIAL OIL SEAL CAN BE REPLACED (WP 0275 00).
3. CHECK MOUNTING SURFACES AND INTERNAL SPLINE FOR BREAKS, NICKS, DEEP SCRATCHES AND BURS. REPAIR MINOR DAMAGE. REPLACE FINAL DRIVE IF DAMAGE CANNOT BE REPAIRED.

## INSTALLATION

**WARNING**

Installation of incorrect final drive may result in injury to personnel or damage to vehicle.

**NOTE**

Use only final drive housing part number 12253544 or optional part number 12313665.

Use only final drive part number 12253512.

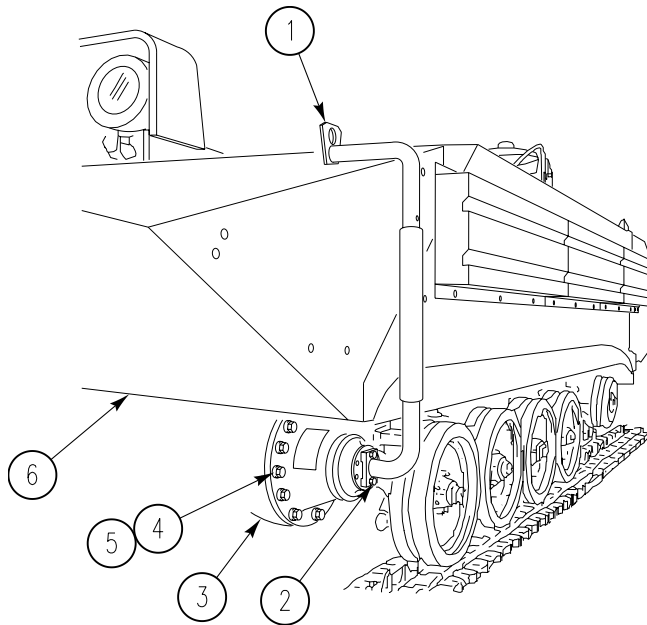
1. CHECK PART NUMBERS OF FINAL DRIVE AND FINAL DRIVE HOUSING.

**NOTE**

**If preservative oil is present, perform Steps 2 - 3.**

2. REMOVE DRAIN PLUG FROM FINAL DRIVE AND DRAIN PRESERVATIVE OIL INTO SUITABLE CONTAINER.
3. INSTALL DRAIN PLUG IN FINAL DRIVE
4. CHECK FINAL DRIVE DRAIN PLUG FOR TIGHTNESS.
5. IF LEFT FINAL DRIVE IS TO BE REPLACED, REMOVE SPEEDOMETER SHAFT ADAPTER FROM OLD FINAL DRIVE AND INSTALL IT IN NEW FINAL DRIVE (WP 0196 00).
6. FILL FINAL DRIVE WITH OIL. See TM 9-2350-366-10-1.

7. SECURE LIFTING BAR (1) TO FINAL DRIVE (3) WITH TWO SPROCKET MOUNTING SCREWS (2).



8. ATTACH LIFTING DEVICE OF AT LEAST 165 LB (75 KG) CAPACITY TO LIFTING BAR (1) AND POSITION FINAL DRIVE (3) ON HULL (6).
9. APPLY ANTISEIZE COMPOUND TO THREADS OF 17 SCREWS (5).
10. SECURE FINAL DRIVE (3) TO HULL (6) WITH 17 SCREWS (5) AND WASHERS (4). TIGHTEN SCREWS TO 75-85 LB-FT (102-115 N•m) TORQUE.
11. REMOVE TWO SCREWS (2) AND LIFTING BAR (1) FROM FINAL DRIVE (3).
12. INSTALL FINAL DRIVE YOKE (WP 0276 00).
13. INSTALL DRIVE SPROCKET ON FINAL DRIVE (WP 0296 00).
14. INSTALL TRACK ON DRIVE SPROCKET (WP 0298 00).
15. INSTALL SPEEDOMETER CABLE ON ADAPTER (WP 0196 00).
16. INSTALL SIDE VISMOD (WP 0314 00).
17. INSTALL HULL FRONT ACCESS COVER (WP 0315 00).
18. INSTALL POWER PLANT FRONT ACCESS PANEL. See TM 9-2350-366-10-1.
19. INSTALL FRONT VISMOD ASSEMBLY (WP 0307 00).
20. REMOVE BLOCKS. See TM 9-2350-366-10-1.
21. ROAD TEST VEHICLE. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE FINAL DRIVE DIFFERENTIAL OIL SEAL**

**0275 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0275 00-1)  
 Installation (page 0275 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)  
 Torque Wrench (WP 0397 00, Item 79)

Equipment Condition

Vehicle blocked (TM 9-2350-366-10-1)  
 Power plant front access panel removed  
 (TM 9-2350-366-10-1)  
 Final drive shaft and yoke removed (WP 0276 00)  
 Hull front access cover removed (left final drive only)  
 (WP 0315 00)

Materials/Parts

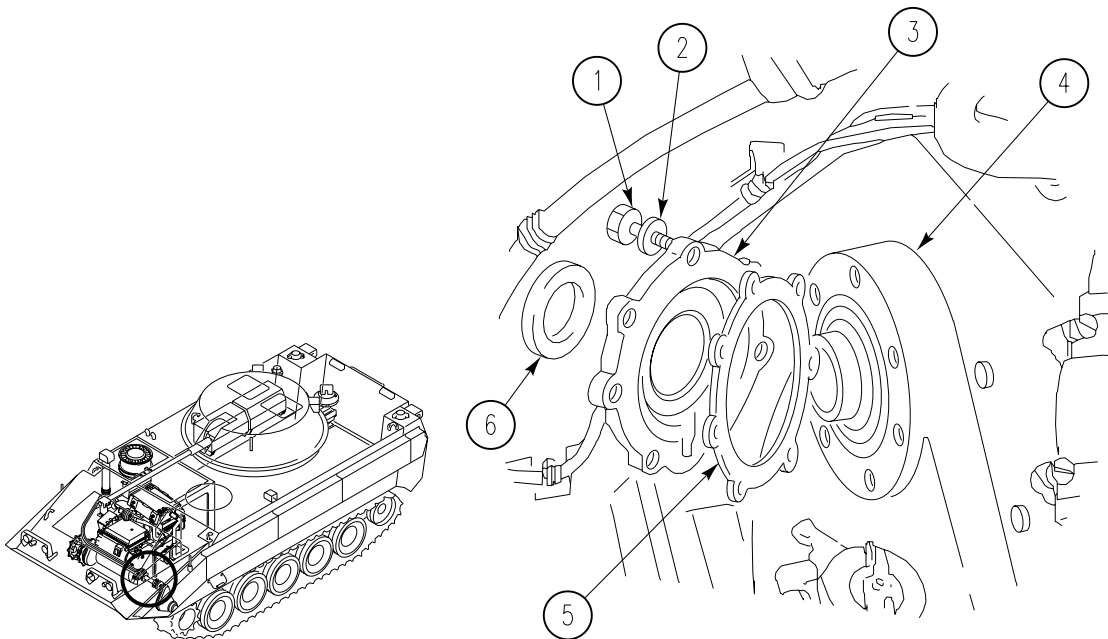
Antiseize compound (WP 0399 00, Item 10)  
 Sealing compound (WP 0399 00, Item 55)  
 Gasket

Personnel Required

Unit Mechanic 63T10

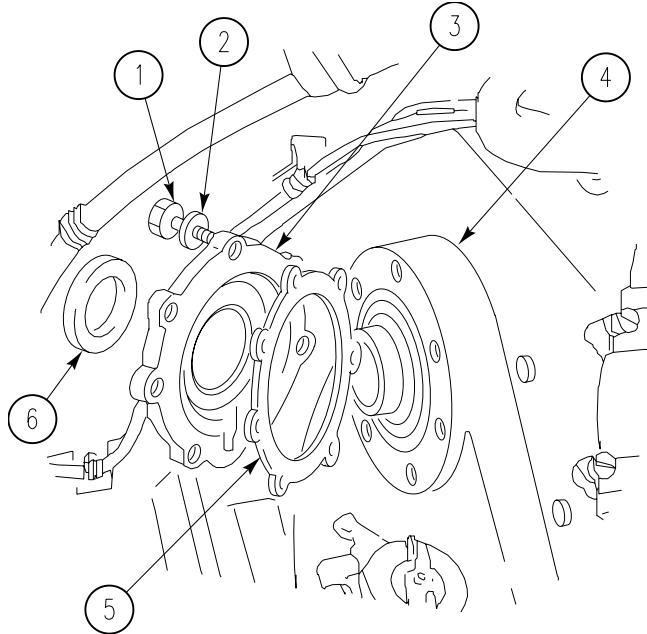
**REMOVAL**

1. REMOVE SEVEN SCREWS (1), WASHERS (2), COVER (3), AND GASKET (5) FROM FINAL DRIVE (4). DISCARD GASKET.
2. REMOVE SEAL (6) FROM COVER (3). DISCARD SEAL.



**INSTALLATION**

1. APPLY SEALING COMPOUND TO NEW SEAL (6). INSTALL IN COVER (3) FLUSH WITH SURFACE OF COVER.



2. APPLY A LIGHT COAT OF ANTISEIZE COMPOUND TO THREADS OF SEVEN SCREWS (1).
3. INSTALL NEW GASKET (5) AND COVER (3) ON FINAL DRIVE (4). SECURE WITH SEVEN SCREWS (1) AND WASHERS (2). TIGHTEN SCREWS TO 21-25 LB-FT (28-34 N·m) TORQUE.
4. INSTALL FINAL DRIVE YOKE AND DRIVE SHAFT (WP 0276 00).
5. INSTALL HULL FRONT ACCESS COVER (WP 0315 00).
6. INSTALL POWER PLANT FRONT ACCESS PANEL. See TM 9-2350-366-10-1.
7. REMOVE BLOCKS FROM VEHICLE. See TM 9-2350-366-10-1.
8. ROAD TEST VEHICLE. See TM 9-2350-366-10-1.

**END OF TASK**



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**REPLACE PROPELLER SHAFT AND UNIVERSAL JOINTS**

**0276 00**

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**THIS WORK PACKAGE COVERS:**

Removal (page 0276 00-2)  
 Installation (page 0276 00-3).

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**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)  
 Torque Wrench Adapter (WP 0397 00, Item 4)  
 Vise (WP 0397 00, Item 67)  
 Torque Wrench (WP 0397 00, Item 83)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Power plant front access panel removed (WP 0308 00)  
 Hull front access cover removed (WP 0315 00)

Materials/Parts

Screw (16)  
 Washer (16)

Personnel Required

Unit Mechanic 63T10  
 Helper (H)

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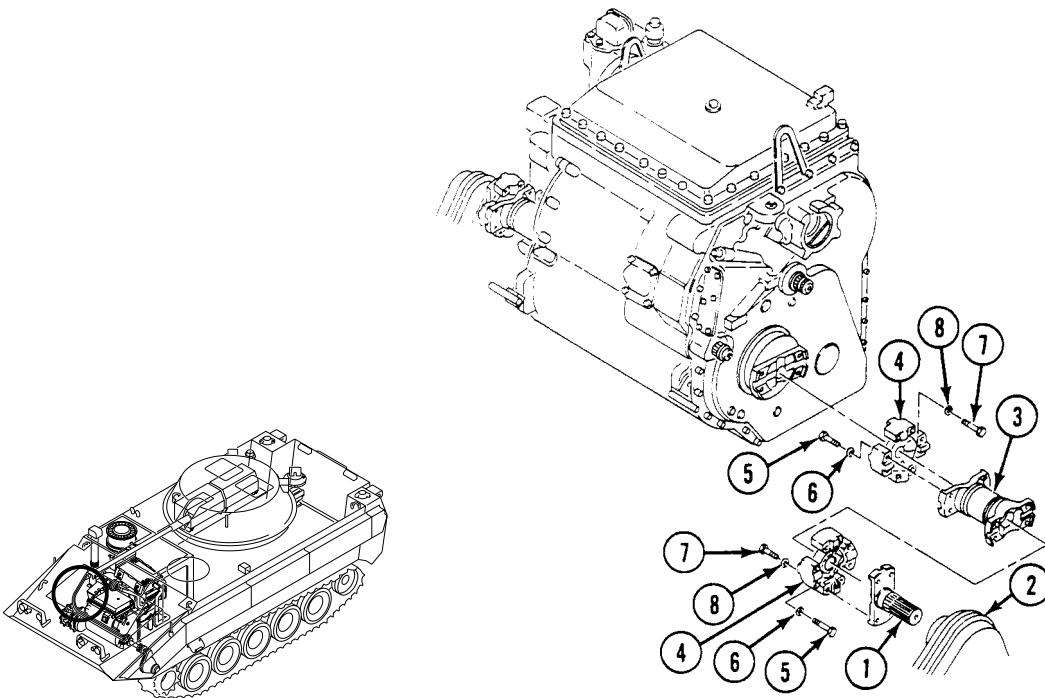
## REMOVAL

## NOTE

Procedure for replacement of propeller shafts and universal joints are the same for right and left side.

Loosen accessible screws only enough to relieve torque. Move carrier to gain access to remaining screws.

1. REMOVE EIGHT SCREWS (7) AND WASHERS (8) FROM UNIVERSAL JOINTS (4) AND SLIDE YOKE (1) INTO FINAL DRIVE (2). DISCARD SCREWS AND WASHERS.
2. REMOVE PROPELLER SHAFT (3) WITH UNIVERSAL JOINTS (4) FROM CARRIER.
3. POSITION PROPELLER SHAFT (3) IN VISE. REMOVE EIGHT SCREWS (5) AND WASHERS (6) FROM UNIVERSAL JOINTS (4) AND SHAFT. DISCARD SCREWS AND WASHERS.
4. REMOVE YOKE (1) FROM FINAL DRIVE (2).



## INSTALLATION

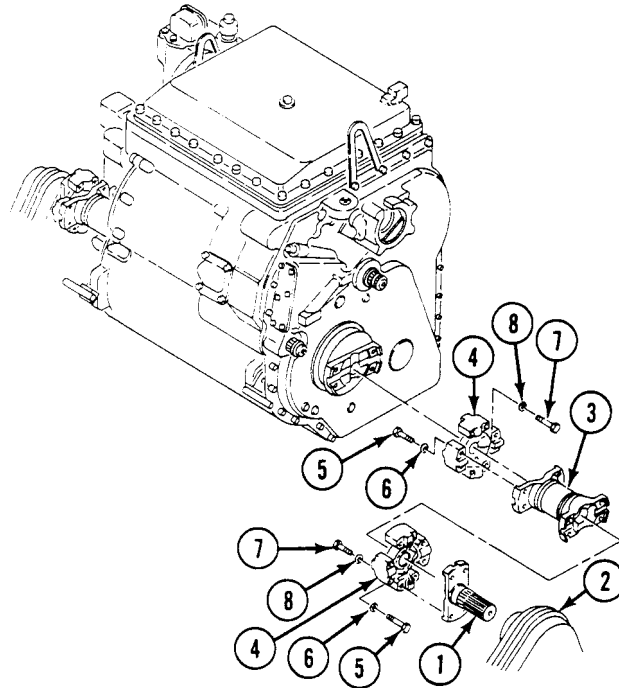
## NOTE

After installation of one propeller shaft, transmission will not rotate. A helper is required (with tanker bar) to move carrier to align holes of universal joint with yoke for installation of propeller shaft on the other side.

If not replacing permanently lubricated universal joints, install two lube fittings in each universal joint.

Screws and washers must be clean, dry, and free of lubricant and paint. Washers must be 5/32 inch (4 mm) hardened flat steel only.

1. INSTALL YOKE (1) IN FINAL DRIVE (2).



## NOTE

When using torque wrench with torque wrench adapter, torque value must be corrected. Procedure for converting torque value is in (WP 0398 00).

2. POSITION PROPELLER SHAFT (3) IN VISE AND INSTALL UNIVERSAL JOINTS (4) WITH EIGHT NEW SCREWS (5) AND NEW WASHERS (6). TIGHTEN SCREWS TO 86-94 LB-FT (117-127 N·m) TORQUE. LOOSEN SCREWS, THEN TIGHTEN AGAIN TO 86-94 LB-FT (117-127 N·m) TORQUE.
3. POSITION PROPELLER SHAFT (3) WITH UNIVERSAL JOINTS AND SECURE TO TRANSMISSION AND FINAL DRIVE (2) WITH EIGHT NEW SCREWS (7) AND NEW WASHERS (8). TIGHTEN SCREWS TO 86-94 LB-FT (117-127 N·m) TORQUE. LOOSEN SCREWS, THEN TIGHTEN AGAIN TO 86-94 LB-FT (117-127 N·m) TORQUE.

**NOTE**

**Perform Step 4 if permanently lubricated universal joints have not been installed.**

4. LUBRICATE UNIVERSAL JOINTS. See TM 9-2350-366-10-1.
5. INSTALL HULL FRONT ACCESS COVER (WP 0315 00).
6. INSTALL POWER PLANT FRONT ACCESS PANEL (WP 0308 00).

**END OF TASK**

**CHAPTER 23**  
**UNIT MAINTENANCE INSTRUCTIONS**  
**FOR BRAKES**

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**WORK PACKAGE INDEX**

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| <u>Title</u>                                      | <u>Sequence No.</u> |
|---|---------------------|
| ADJUST PARKING BRAKE.....                         | .0277 00            |
| ADJUST SERVICE BRAKE CONTROL LINKAGE.....         | .0278 00            |
| ADJUST TRANSMISSION BRAKES.....                   | .0279 00            |
| CHECK TRANSMISSION BRAKE ADJUSTMENT.....          | .0280 00            |
| REPLACE PARKING BRAKE CONTROL LEVER ASSEMBLY..... | .0281 00            |
| REPLACE SERVICE BRAKE CONTROL LINKAGE.....        | .0282 00            |
| REPLACE PARKING BRAKE CONTROL CABLE ASSEMBLY..... | .0283 00            |
| REPLACE UPPER AND LOWER SERVICE BRAKE PEDAL.....  | .0284 00            |
| REPLACE STOP SWITCH.....                          | .0285 00            |
| REPLACE PARKING BRAKE SWITCH/BRACKET.....         | .028600             |



**ADJUST PARKING BRAKE**

**0277 00**

**THIS WORK PACKAGE COVERS:**

Adjustment (page 0277 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

Cotter pin

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

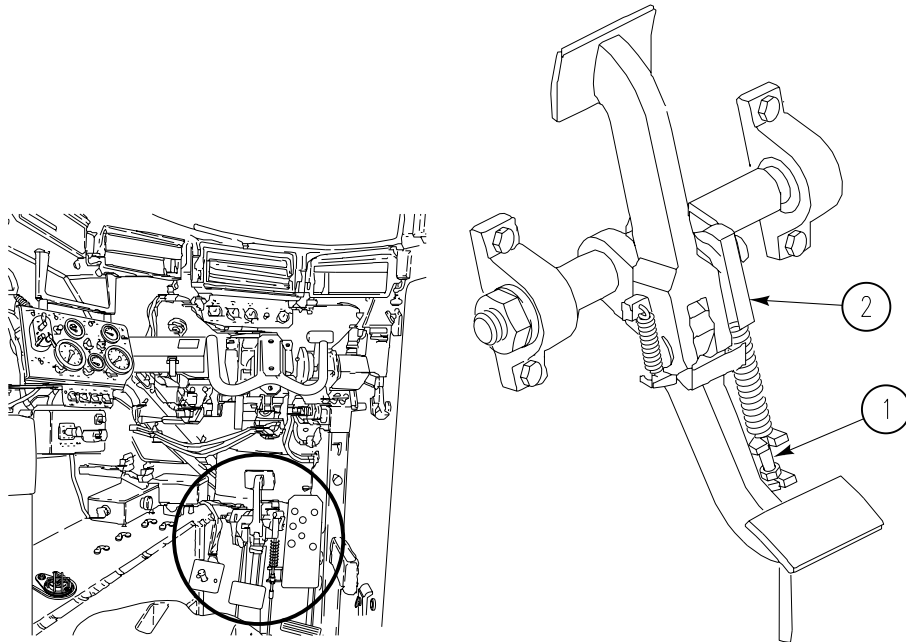
Personnel Required

Unit Mechanic 63T10

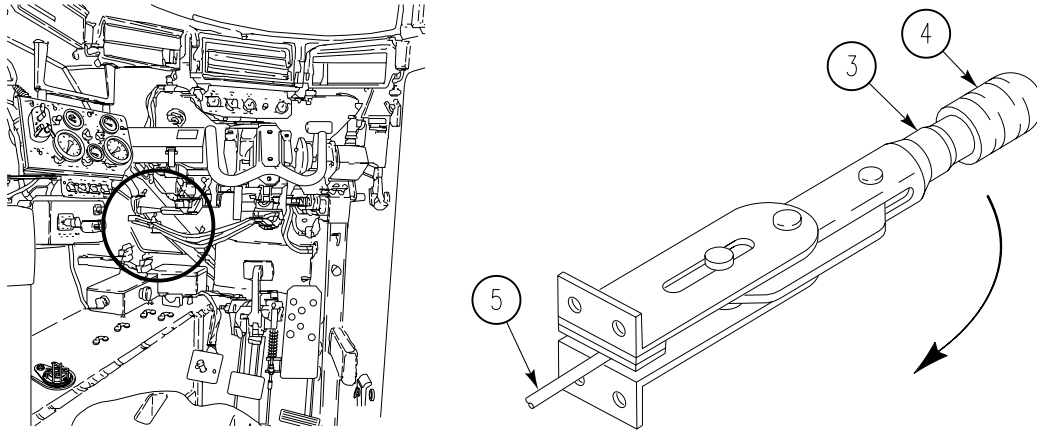
Vehicle blocked (TM 9-2350-366-10-1)

**ADJUSTMENT**

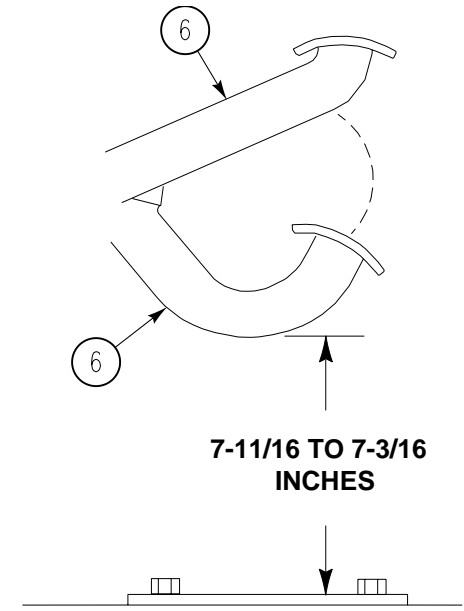
1. CHECK FOR 3/4 INCH (1.9 CM) MINIMUM THREAD ENGAGEMENT OF CABLE (1) AND STOP (2). IF YOU FIND 3/4 INCH (1.9 CM) MINIMUM THREAD ENGAGEMENT, GO TO Step 8 BELOW. IF NOT, DO Steps 1 - 9 BELOW.



2. POSITION PARKING LEVER (3) IN FULL OFF POSITION BY PUSHING LEVER HANDLE TO THE LEFT.
3. TURN BRAKE LEVER ADJUSTMENT KNOB (4) ON END OF LEVER (3) TO THE LEFT TO ALLOW FULL SLACK IN CONTROL ASSEMBLY CABLE (5).

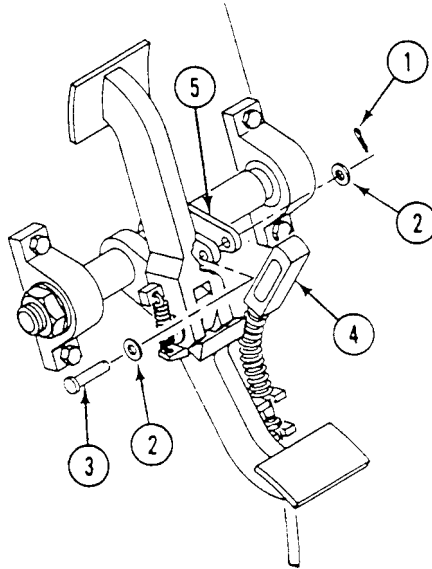


4. POSITION BRAKE LOWER PEDAL (6) IN FULL OFF POSITION, 7-11/16 TO 7-3/16 INCHES (19.5 TO 18.3 CM) ABOVE THE DRIVER'S FLOOR PLATE.

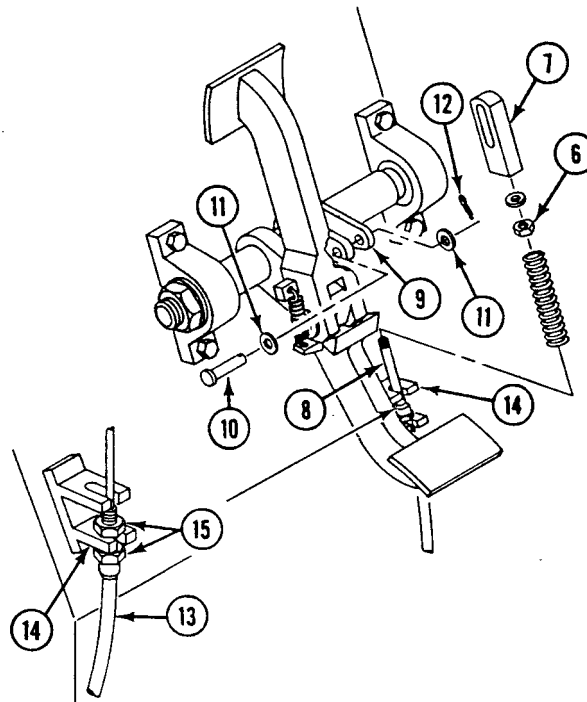




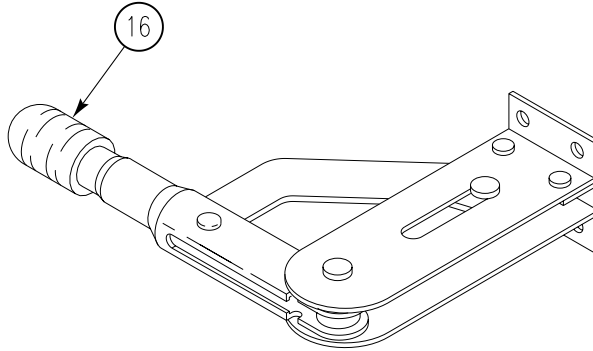
5. REMOVE COTTER PIN (1), TWO WASHERS (2), AND CLEVIS PIN (3) THAT CONNECT CONTROL ASSEMBLY CABLE STOP (4) TO LEVER LINK (5). DISCONNECT CABLE STOP FROM LINK. DISCARD COTTER PIN.



6. LOOSEN JAM NUT (6). ALLOW 3/4 INCH (1.9 CM) MINIMUM THREAD ENGAGEMENT OF CABLE STOP (7) ON CABLE END (8). TIGHTEN JAM NUT AGAINST CABLE STOP.
7. CONNECT CABLE STOP (7) TO LEVER LINK (9). SECURE WITH CLEVIS PIN (10), FLAT WASHER (11), AND NEW COTTER PIN (12).
8. ADJUST CONTROL ASSEMBLY CABLE (13) IN BRACKET (14) BY TURNING TWO JAM NUTS (15) UNTIL END OF CABLE STOP SLOT (7) IS AGAINST CLEVIS PIN (10) (INSTALLED IN Step 7 )OR AS CLOSE AS THREAD ADJUSTMENT ALLOWS. TIGHTEN BOTH JAM NUTS.



9. TURN BRAKE LEVER ADJUSTMENT KNOB (16) TO THE RIGHT TO BRING CABLE STOP AGAINST CLEVIS PIN.



10. APPLY PARKING BRAKE. See TM 9-2350-366-10-1.

**END OF TASK**

**ADJUST SERVICE BRAKE CONTROL LINKAGE**

**0278 00**

**THIS WORK PACKAGE COVERS:**

Adjustment (page 0278 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

Cotter pin

Personnel Required

Unit Mechanic 63T10

Helper (H)

References

TM 9-2350-366-10-1

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Driver's power plant access panel removed  
(WP 0312 00)

Power plant rear access panels removed (WP 0309 00)

Hull front access cover removed (WP 0315 00)

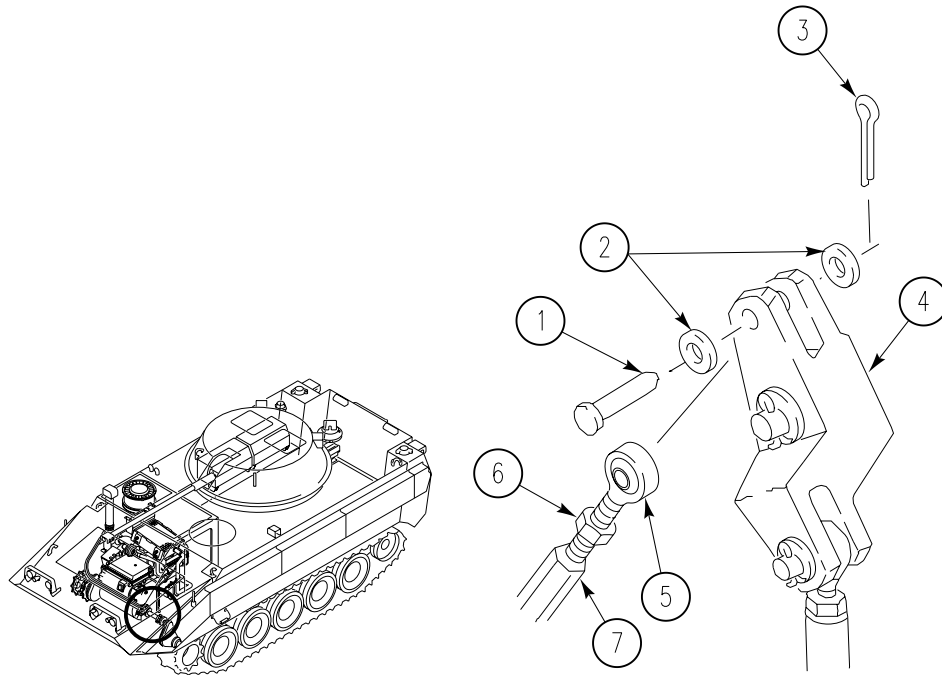
Transmission brake adjustment checked (WP 0279 00)

Engine access cover plate removed (WP 0308 00)

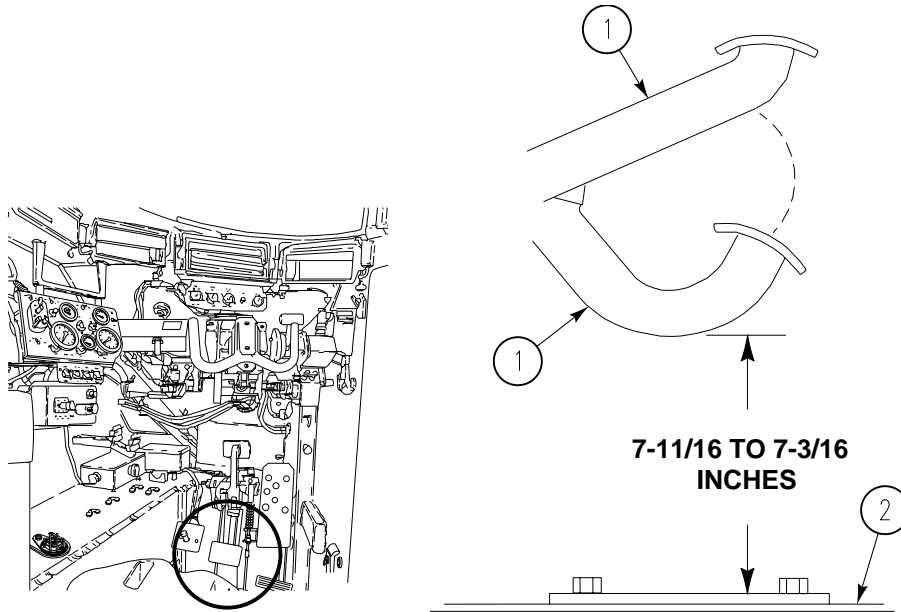
Front VISMODO access doors removed (WP 0307 00)

**ADJUSTMENT**

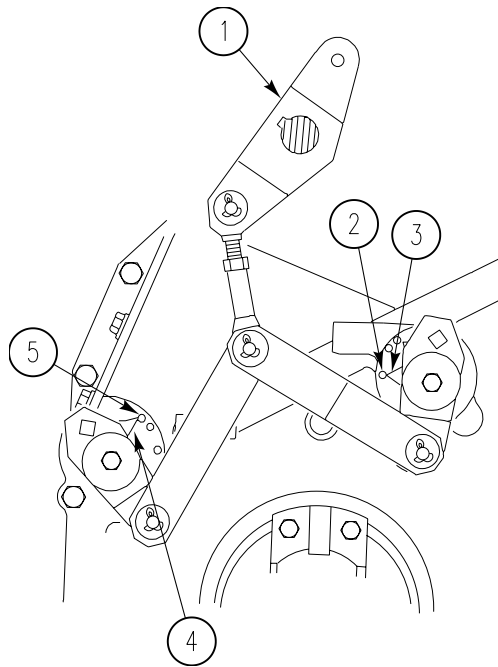
1. REMOVE COTTER PIN (3), TWO WASHERS (2), CLEVIS PIN (1), AND LINKAGE ROD BEARING (5) FROM CROSS-SHAFT LINK (4). DISCARD COTTER PIN.



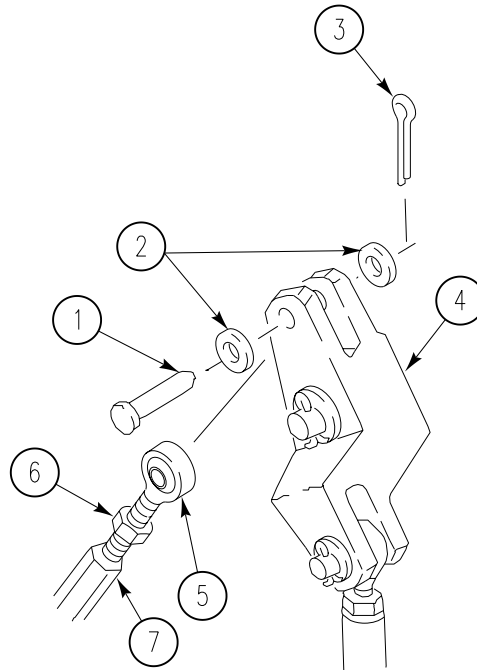
2. (H): HOLD LOWER BRAKE PEDAL (1) IN OFF POSITION, 7-11/16 TO 7-3/16 INCHES (19.5 TO 18.3 CM) ABOVE DRIVER'S FLOOR PLATE (2).



3. MOVE CROSS-SHAFT LINK (1) UNTIL LEFT AND RIGHT HAND BRAKE APPLY SHAFT INDICATORS (4) AND (3) POINT TO LOWEST MARKS ON TRANSMISSION CASING (2) AND (5).

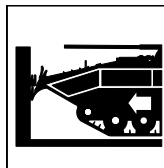


4. LOOSEN JAMNUT (6) ON LINKAGE ROD BEARING (5). INSTALL ROD ON CROSS-SHAFT LINK (4).



5. ADJUST LENGTH OF LINKAGE ROD (7) BY TURNING ROD END BEARING (5) UNTIL CLEVIS PIN (1) INSERTS FREELY INTO BEARING AND CROSS-SHAFT LINK (4). TIGHTEN JAMNUT (6).

**WARNING**



**Failure of control linkage can cause vehicle to crash. Crash could kill or injure personnel.  
Install new cotter pin.**

6. SECURE LINKAGE ROD END BEARING (5) TO CROSS-SHAFT LINK (4) WITH TWO WASHERS (2), CLEVIS PIN (1), AND NEW COTTER PIN (3).
7. INSTALL HULL FRONT ACCESS COVER (WP 0315 00).
8. INSTALL DRIVER'S POWER PLANT ACCESS PANEL (WP 0312 00).
9. INSTALL POWER PLANT REAR ACCESS PANELS (WP 0309 00).
10. INSTALL ENGINE ACCESS COVER PLATE L (WP 0308 00).
11. INSTALL FRONT VISMODO ACCESS DOORS (WP 0307 00).

**END OF TASK**



## ADJUST TRANSMISSION BRAKES

0279 00

### THIS WORK PACKAGE COVERS:

- Left Hand Brake Adjustment (page 0279 00-1).
- Right Hand Brake Adjustment (page 0279 00-5).

### INITIAL SETUP:

#### Maintenance Level

Unit

#### Personnel Required

Unit Mechanic 63T10  
Helper (H)

#### Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Splined socket (WP 0397 00, Item 49)
- Socket wrench set, 3/8 inch drive (WP 0397 00, Item 70)
- Torque wrench, 3/8 inch drive, 0-200 in-lb (WP 0397 00, Item 78)
- Torque wrench, 1/2 inch drive, 0-175 ft-lb (WP 0397 00, Item 83)

#### References

TM 9-2350-366-10-1

#### Materials/Parts

- Sealing compound (WP 0399 00, Item 53)
- Gasket
- Gasket
- Self-locking screw (4)
- Self-locking screw (6)

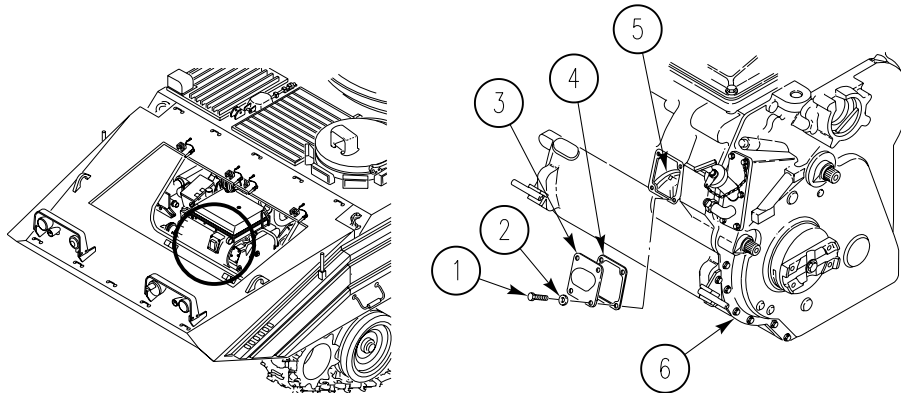
#### Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Power plant access panel removed (WP 0309 00)
- Hull front access cover removed (WP 0315 00)
- Front power plant access doors removed (TM 9-2350-366-10-1)

## ADJUSTMENT

### LEFT HAND BRAKE ADJUSTMENT

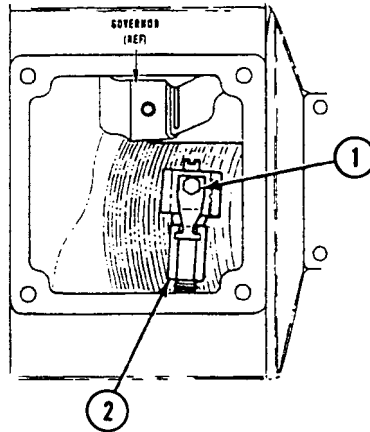
1. REMOVE FOUR SELF-LOCKING SCREWS (1), FOUR WASHERS (2), COVER (3), AND GASKET (4) FROM TRANSMISSION (6). DISCARD GASKET AND SCREWS.
2. REMOVE GOVERNOR ASSEMBLY (5), TURNING CLOCKWISE TO DISENGAGE GEAR TEETH.



**CAUTION**

Do not remove screw on adjusting link spring. Removal of screw may cause damage to equipment.

3. LOOSEN SCREW (1) TO RELEASE SPRING TENSION ON BRAKE ADJUSTING LINK (2).

**NOTE**

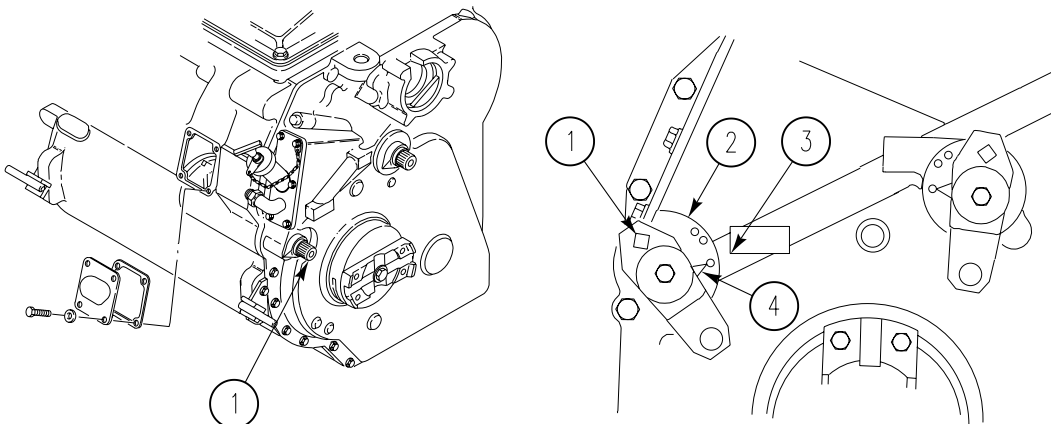
If power plant is not in vehicle or if linkage is not connected to transmission, do Step 4 to adjust left-hand brake.

If arm (1) is not on transmission, use splined socket to apply torque to shaft (1).

Combination wrench turned to right (counterclockwise rotation of adjusting link) tightens brake. Combination wrench turned to left (clockwise rotation of adjusting link) loosens brake.

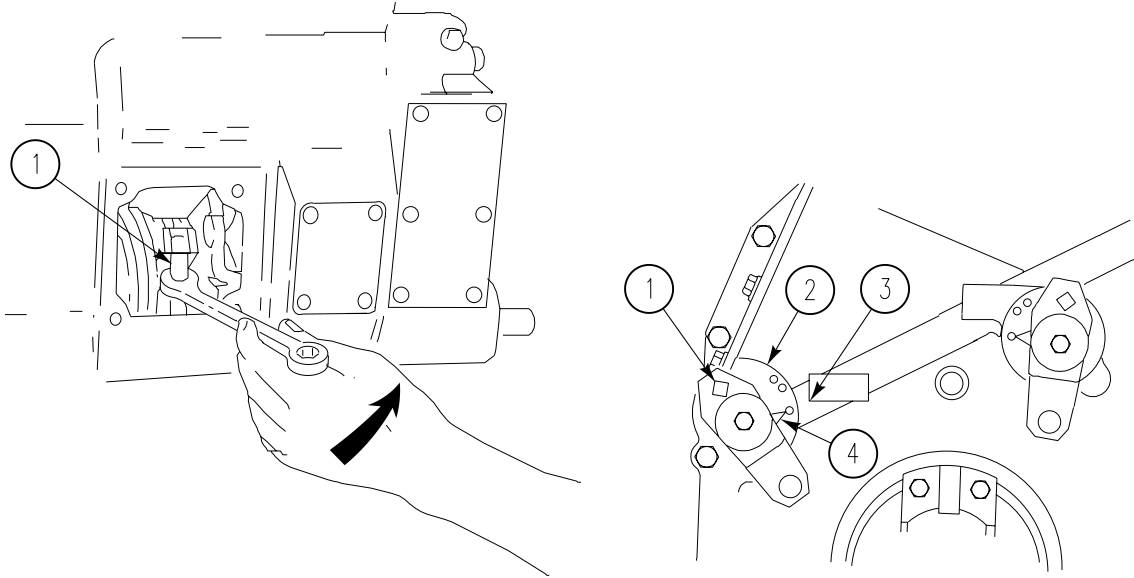
If indicator stopped before APPLY mark, brakes are too tight. If indicator stopped after mark, brakes need to be tightened. Brake adjusting link should be turned only 1/6 turn (60°) at a time until proper brake adjustment is achieved.

4. APPLY 40 LB-FT (54 N·m) TORQUE TO SHAFT (1) OR ARM (1).





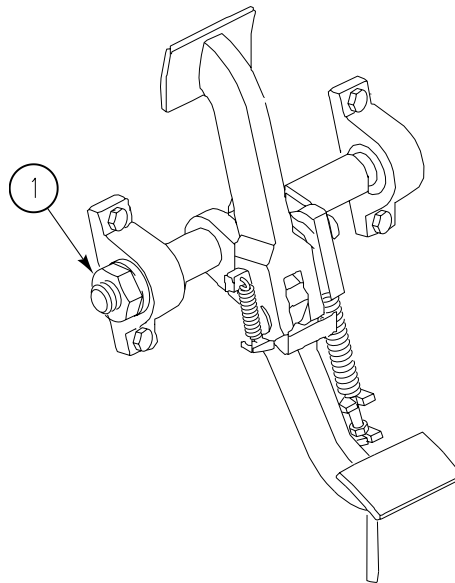
5. TURN BRAKE ADJUSTING LINK (1) WITH AN ANGLE-HEAD WRENCH UNTIL INDICATOR (4) LINES UP OPPOSITE APPLY MARK (3).



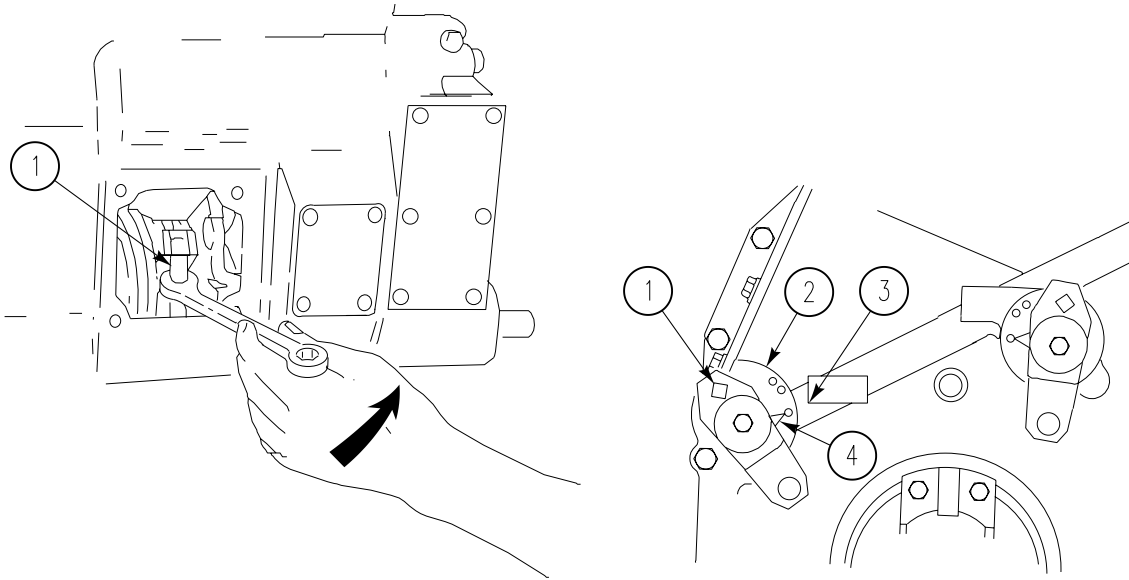
**NOTE**

**If power plant is in vehicle, do Step 6 to adjust left-hand brake.**

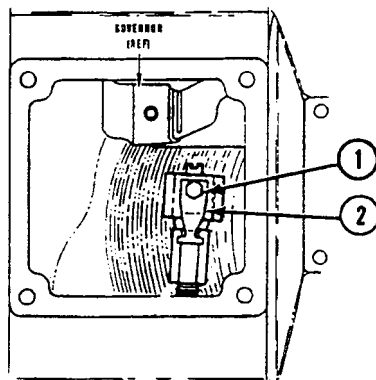
6. APPLY 104 FT-LB (141 N·m) TORQUE TO BRAKE SHAFT NUT (1).



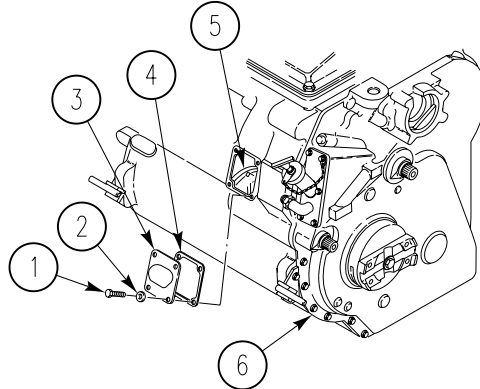
7. TURN BRAKE ADJUSTING LINK (1) WITH AN ANGLE-HEAD WRENCH UNTIL INDICATOR (4) LINES UP OPPOSITE APPLY MARK (3).



8. REPEAT Step 4 AND Step 6 AS NEEDED UNTIL INDICATOR STOPS AT APPLY MARK AT SPECIFIED TORQUE.
9. TIGHTEN SCREW (1) ON ADJUSTING LINK SPRING (2).

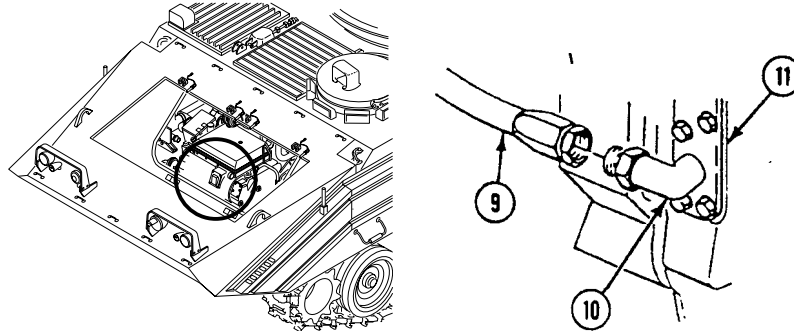


10. INSTALL GOVERNOR ASSEMBLY (5), ENGAGING GEAR COUNTERCLOCKWISE.
11. INSTALL NEW GASKET (4) AND COVER (3) ON TRANSMISSION (6). SECURE WITH FOUR WASHERS (2) AND NEW SELF-LOCKING BOLTS (1).
  - a. TORQUE BOLTS (1) TO 204-240 IN-LB (23-27 N·m).

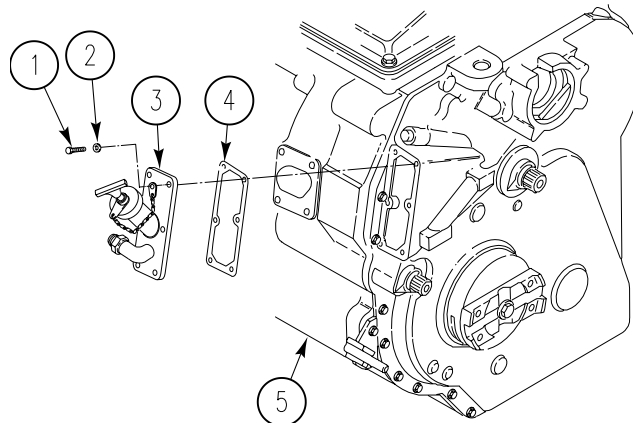


**RIGHT HAND BRAKE ADJUSTMENT**

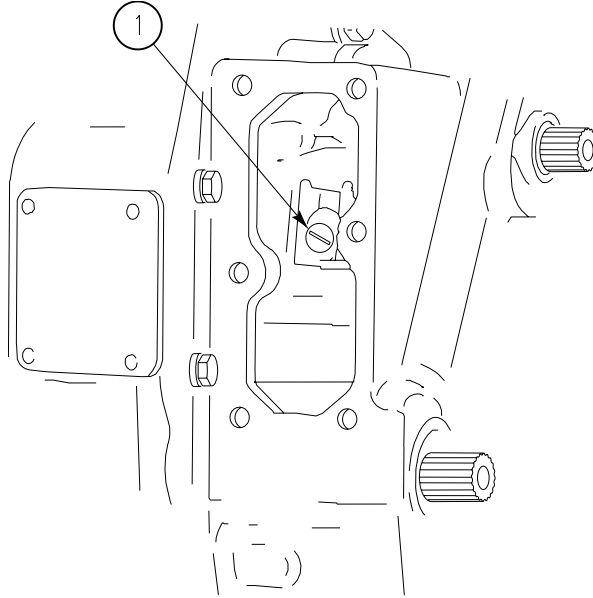
1. DISCONNECT OIL RETURN HOSE (9) FROM ELBOW (10) ON TRANSMISSION END COVER (11). PLUG HOSE.



2. REMOVE SIX SELF LOCKING BOLTS (1), WASHERS (2), COVER (3), AND GASKET (4) FROM TRANSMISSION (5). DISCARD GASKET AND BOLTS.



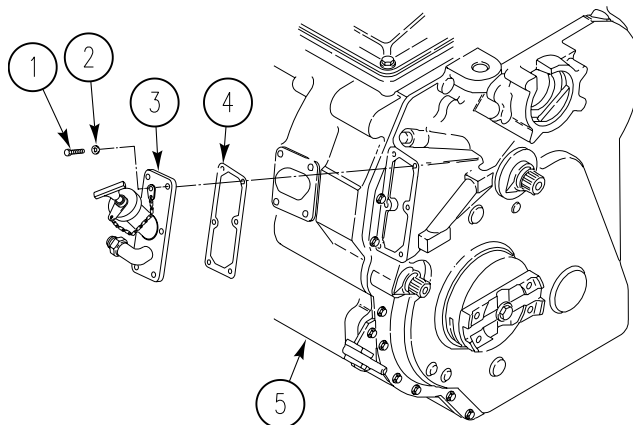
3. TURN BRAKE ADJUSTMENT SCREW (1) INSIDE TRANSMISSION TO ADJUST BRAKES. IF INDICATOR PASSED READJUST MARK, TURN TO THE LEFT AND TIGHTEN. IF INDICATOR DID NOT REACH APPLY MARK, TURN TO THE RIGHT AND LOOSEN.



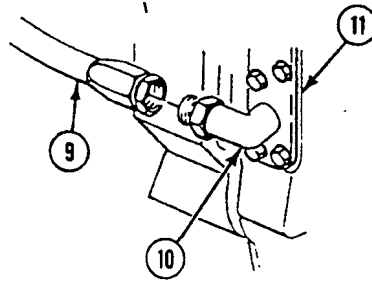
**NOTE**

**If indicator stopped before APPLY mark, brakes are too tight. If indicator stopped past APPLY mark, brakes need to be tightened. Brake adjusting screw should be turned only 1/6 turn (60°) at a time until proper brake adjustment is achieved.**

4. CHECK TRANSMISSION BRAKE ADJUSTMENT (WP 0280 00).
5. REPEAT Step 3 AND Step 4 AS NEEDED UNTIL INDICATOR STOPS AT APPLY MARK AT SPECIFIED TORQUE.
6. INSTALL NEW GASKET (4) AND COVER (3) ON TRANSMISSION (5). SECURE WITH SIX WASHERS (2) AND NEW SELF LOCKING BOLTS (1).
  - a. TORQUE BOLTS (1) TO 156-180 IN-LB (18-20 N·m).



7. CONNECT HOSE (9) TO ELBOW (10).



8. INSTALL POWER PLANT ACCESS PANEL (WP 0309 00).  
9. INSTALL HULL FRONT ACCESS COVER (WP 0315 00).  
10. INSTALL FRONT POWER PLANT ACCESS DOORS. See (TM 9-2350-366-10-1).

**END OF TASK**



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**CHECK TRANSMISSION BRAKE ADJUSTMENT**

**0280 00**

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**THIS WORK PACKAGE COVERS:**

Check Brake Adjustment (page 0280 00-1).

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**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
Torque wrench (WP 0397 00, Item 83)

Personnel Required

Unit Mechanic 63T10  
Helper (H)

References

TM 9-2350-366-10-1

Equipment Condition

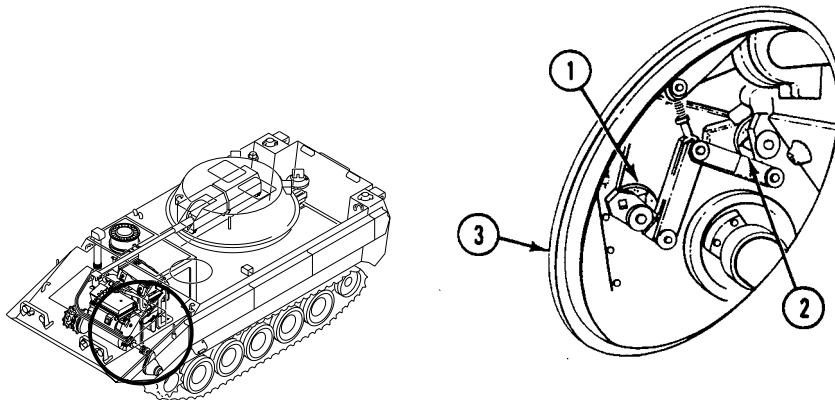
Engine stopped (TM 9-2350-366-10-1)  
Vehicle blocked (TM 9-2350-366-10-1)  
Driver's power plant access panel removed (WP 0312 00)  
Power plant rear access panels removed (WP 0309 00)  
Hull front access cover removed (WP 0315 00)  
Parking brake released (TM 9-2350-366-10-1)  
Front VISMOD access doors removed (WP 0307 00)  
Engine access cover plate removed (WP 0308 00)

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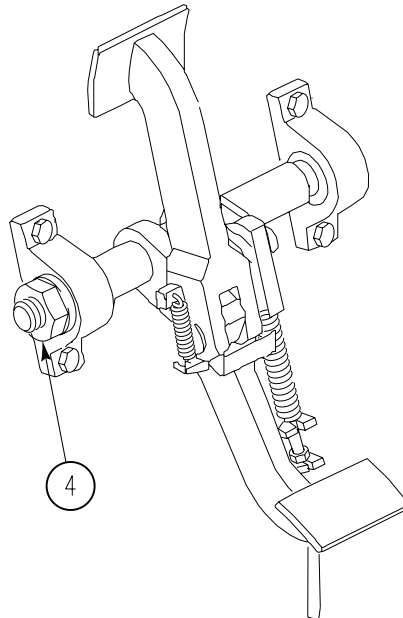
**INSPECTION OF INSTALLED ITEMS**

**CHECK BRAKE ADJUSTMENT**

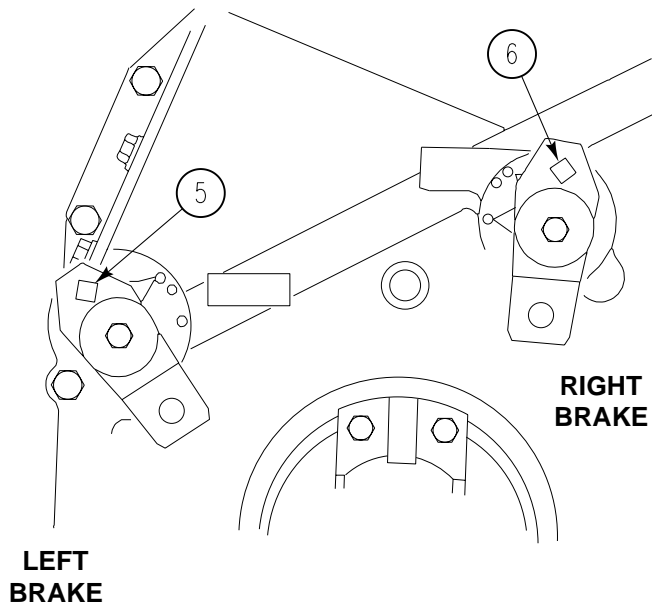
1. (H): START ENGINE AND ALLOW TO WARM UP. See TM 9-2350-366-10-1.
2. WATCH BRAKE SHAFT INDICATORS (1) AND (2) THROUGH POWER PLANT FRONT ACCESS HOLE (3).



3. (H): APPLY 104 LB-FT (141 N·m) TORQUE TO BRAKE SHAFT NUT (4).

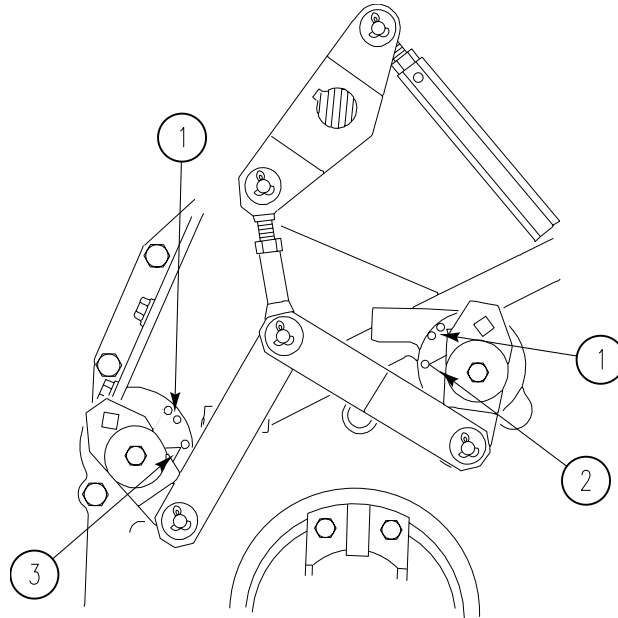


4. IF TRANSMISSION IS NOT IN THE VEHICLE OR IF THE LINKAGE IS NOT CONNECTED TO THE TRANSMISSION, APPLY 40 LB-FT (54 N·m) TORQUE TO ARMS (5) AND (6).

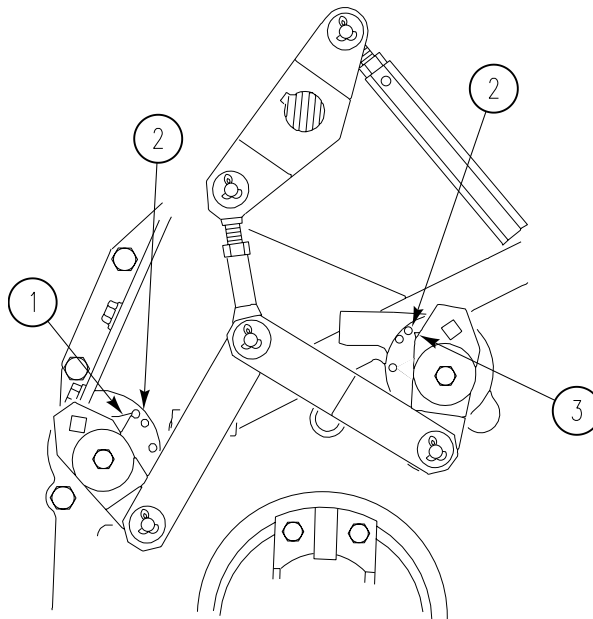




5. NOTE POSITION OF INDICATORS (3) AND (2). IF INDICATORS STOP BEFORE “APPLY” MARK (1), CHECK BRAKE LINKAGE ADJUSTMENT AND ADJUST BRAKES (WP 0279 00).



6. IF INDICATORS (1) AND (3) INDICATE OR GO PAST ADJUST MARK (2), ADJUST BRAKES (WP 0279 00).



7. APPLY PARKING BRAKE. See TM 9-2350-366-10-1.
8. INSTALL HULL FRONT ACCESS COVER (WP 0315 00).
9. INSTALL POWER PLANT REAR ACCESS PANEL (WP 0309 00).
10. INSTALL DRIVER'S POWER PLANT ACCESS PANEL (WP 0312 00).
11. INSTALL ENGINE ACCESS COVER PLATE (WP 0308 00).
12. INSTALL FRONT VISMOD ACCESS DOORS (WP 0307 00).

**END OF TASK**



**REPLACE PARKING BRAKE CONTROL LEVER ASSEMBLY**

**0281 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0281 00-1).  
 Installation (page 0281 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

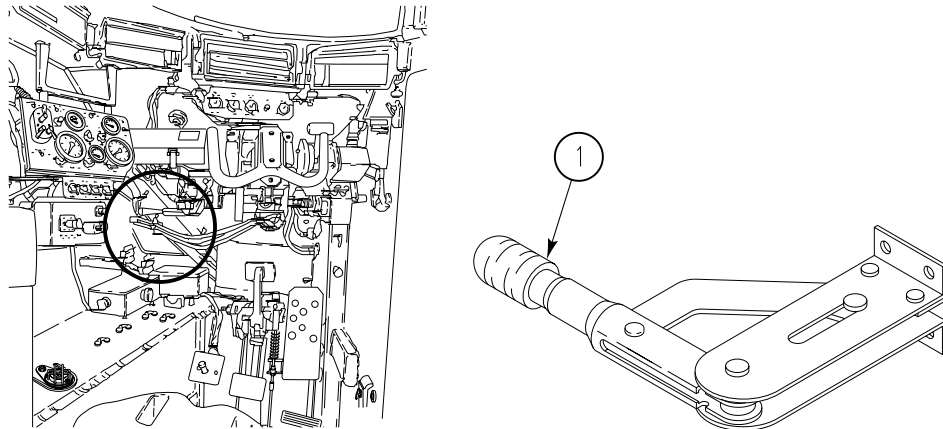
Cotter pin  
 Locknut (4)  
 Locknut (2)

Equipment Condition

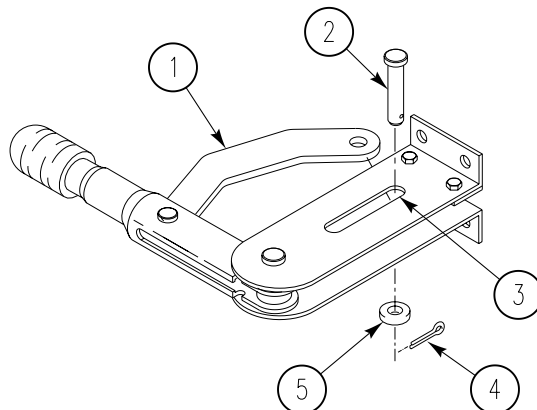
Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)

**REMOVAL**

1. PLACE PARKING BRAKE LEVER ASSEMBLY IN OFF POSITION BY PUSHING BRAKE LEVER HANDLE (1) TO THE LEFT.



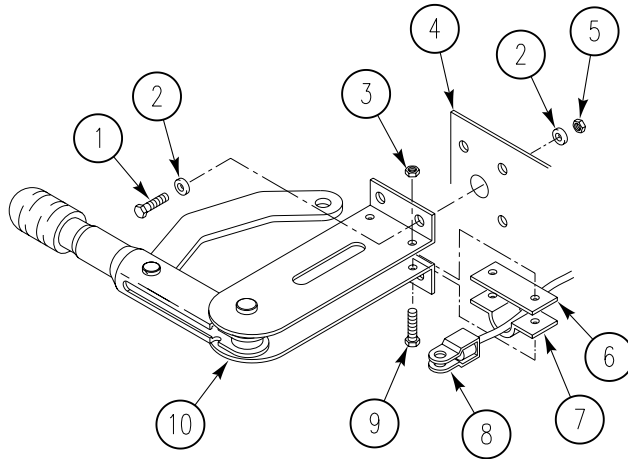
2. REMOVE COTTER PIN (4), WASHER (5), AND CLEVIS PIN (2) FROM CABLE CLEVIS (3) AND LEVER LINK (1). DISCONNECT LINK FROM CABLE. DISCARD COTTER PIN.



## REPLACE PARKING BRAKE CONTROL LEVER ASSEMBLY — Continued

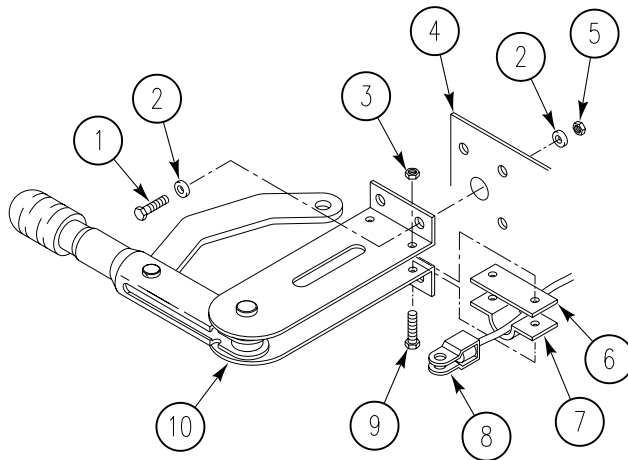
0281 00

3. REMOVE FOUR LOCKNUTS (5), SCREWS (1), AND EIGHT WASHERS (2) FROM PARKING BRAKE LEVER (10) AND MOUNTING BRACKET (4). REMOVE PARKING BRAKE LEVER FROM MOUNTING BRACKET. DISCARD LOCKNUTS.
4. REMOVE TWO LOCKNUTS (3) AND SCREWS (9) FROM PARKING BRAKE CONTROL CABLE CONDUIT (8), SPACER (6), AND RETAINING STRAP (7). REMOVE CABLE SPACER AND RETAINING STRAP FROM BRAKE LEVER ASSEMBLY (10). DISCARD LOCKNUTS.



## INSTALLATION

1. INSTALL PARKING BRAKE CONTROL CABLE CONDUIT (8), SPACER (6), AND RETAINING STRAP (7) ON PARKING BRAKE LEVER ASSEMBLY (10). SECURE WITH TWO SCREWS (9) AND NEW LOCKNUTS (3).
2. INSTALL PARKING BRAKE LEVER (10) ON MOUNTING BRACKET (4). SECURE WITH FOUR SCREWS (1), EIGHT WASHERS (2), AND FOUR NEW LOCKNUTS (5).



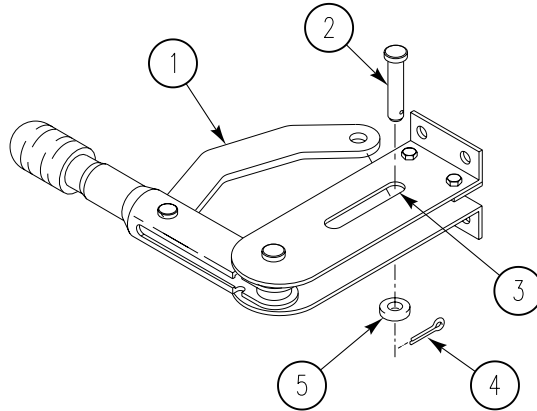
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**REPLACE PARKING BRAKE CONTROL LEVER ASSEMBLY — Continued**

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**0281 00**

3. INSTALL CABLE CLEVIS (3) IN LINK OF PARKING BRAKE LEVER (1). SECURE WITH CLEVIS PIN (2), WASHER (5), AND NEW COTTER PIN (4).



4. ADJUST PARKING BRAKE (WP 0277 00).

**END OF TASK**



**REPLACE SERVICE BRAKE CONTROL LINKAGE**

**0282 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0282 00-1).  
 Installation (page 0282 00-6).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10  
 Helper (H)

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Crowfoot attachment (WP 0397 00, Item 15)  
 Vice (WP 0397 00, Item 67)  
 Socket wrench set (WP 0397 00, Item 70)  
 Torque wrench (WP 0397 00, Item 83)

References

TM 9-2350-366-10-1

Materials/Parts

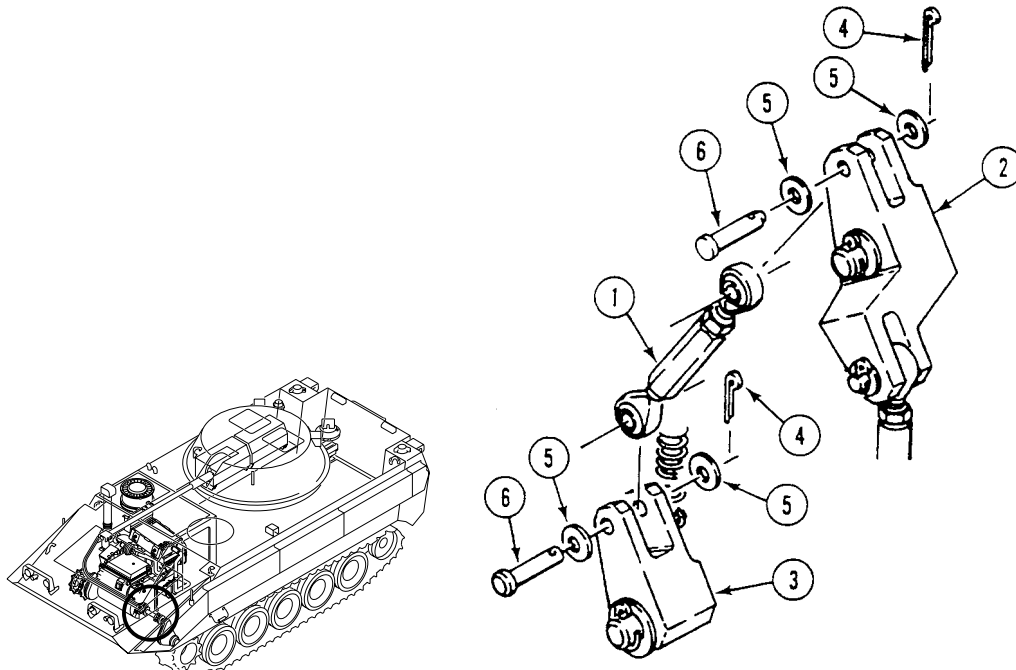
Cotter pin  
 Cotter pin (6)  
 Key  
 Locknut  
 Lockwasher (2)

Equipment Condition

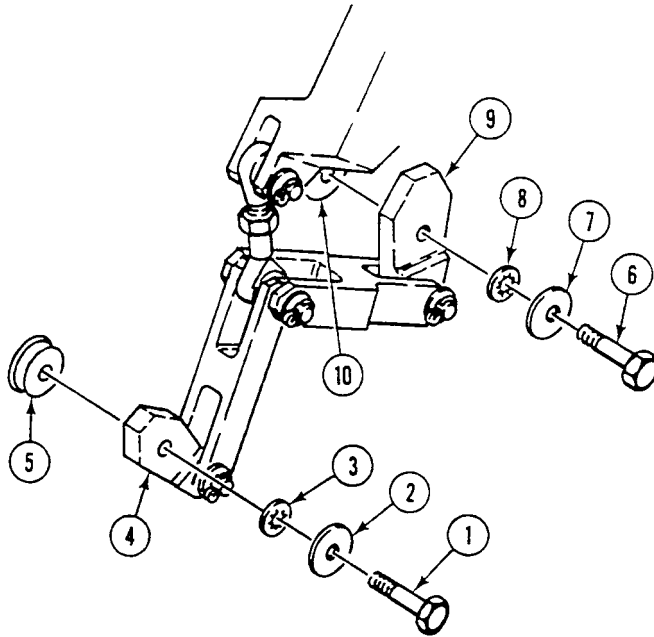
Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Front VISMOD access doors removed (WP 0307 00)  
 Engine access cover plate removed (WP 0308 00)

**REMOVAL**

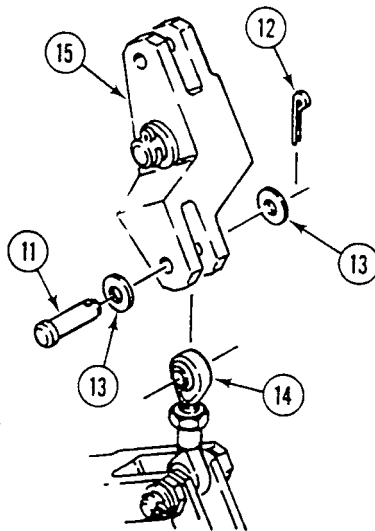
1. REMOVE TWO COTTER PINS (4), FOUR WASHERS (5), TWO CLEVIS PINS (6), AND LINKAGE ROD (1) FROM CROSS-SHAFT LINK (2) AND LINK (3). DISCARD TWO COTTER PINS.



2. REMOVE SCREW (1), WASHER (2), AND LOCKWASHER (3) FROM BRAKE ARM (4) AND LEFT HAND BRAKE APPLY SHAFT (5). DISCARD LOCKWASHER.

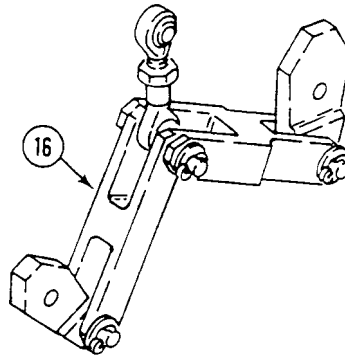


3. REMOVE SCREW (6), WASHER (7), AND LOCKWASHER (8) FROM BRAKE ARM (9) AND RIGHT HAND BRAKE APPLY SHAFT (10). DISCARD LOCKWASHER.
4. REMOVE CLEVIS PIN (11), COTTER PIN (12), TWO WASHERS (13), AND ROD BEARING (14) FROM CROSS-SHAFT LINK (15). DISCARD COTTER PIN.

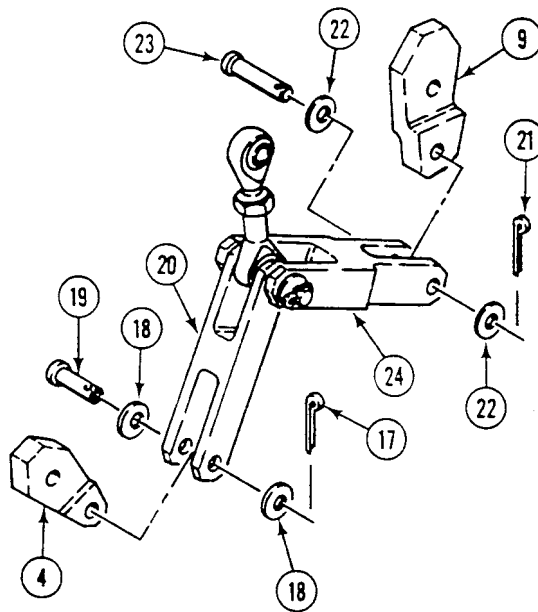




5. REMOVE HAND BRAKE ARM AND LINK ASSEMBLY (16) FROM VEHICLE.

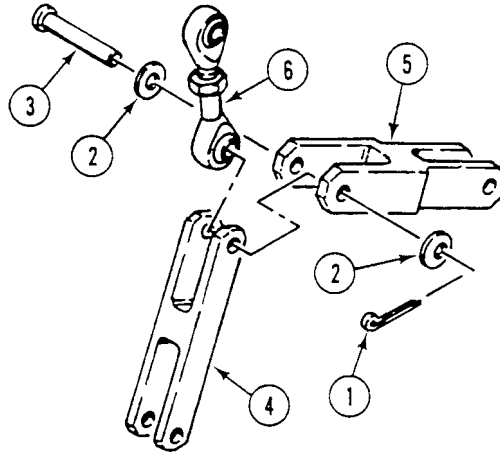


6. REMOVE COTTER PIN (17), TWO WASHERS (18), CLEVIS PIN (19), AND LEFT HAND BRAKE ARM (4) FROM LINK (20). DISCARD COTTER PIN.

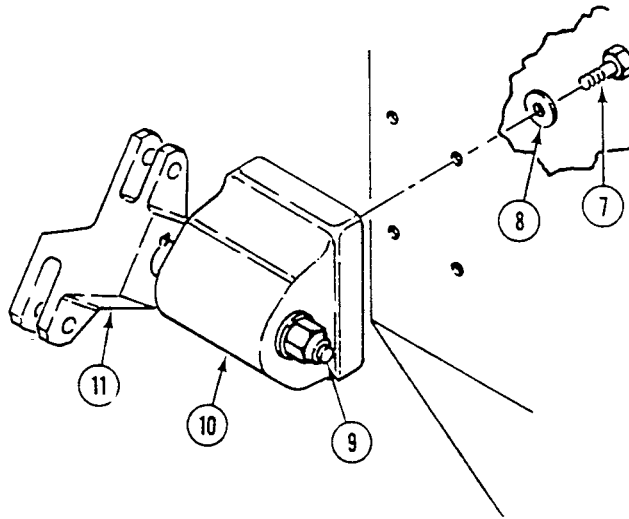


7. REMOVE COTTER PIN (21), TWO WASHERS (22), CLEVIS PIN (23), AND RIGHT HAND BRAKE ARM (9) FROM LINK (24). DISCARD COTTER PIN.

8. REMOVE COTTER PIN (1), TWO WASHERS (2), CLEVIS PIN (3), AND TWO LINKS (4) AND (5) FROM ROD (6). DISCARD COTTER PIN.



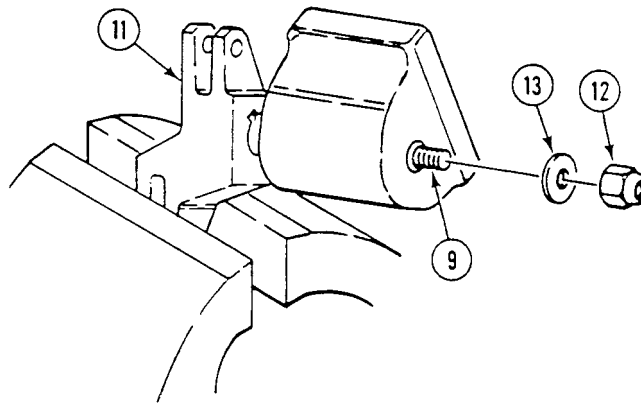
9. REMOVE FOUR SCREWS (7) AND WASHERS (8) FROM BEARING UNIT AND DRIVER'S COMPARTMENT BULKHEAD. REMOVE SHAFT (9), JOURNAL BEARING (10), AND LINK (11) FROM HULL. HAVE HELPER ASSIST.



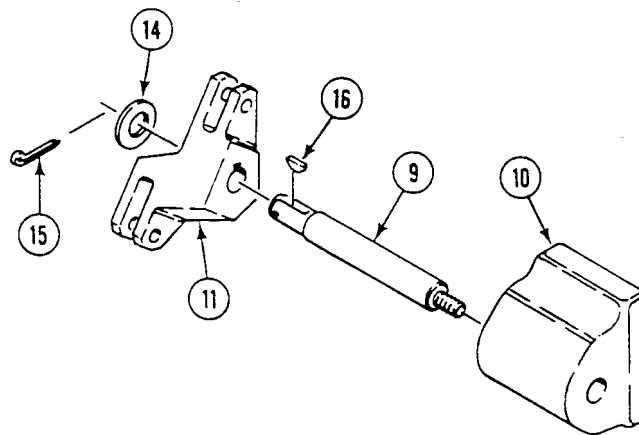
**CAUTION**

Take care not to damage parts when using vise.

10. PLACE LINK (11) IN VISE. REMOVE LOCKNUT (12) AND WASHER (13) FROM SHAFT (9). DISCARD LOCKNUT.



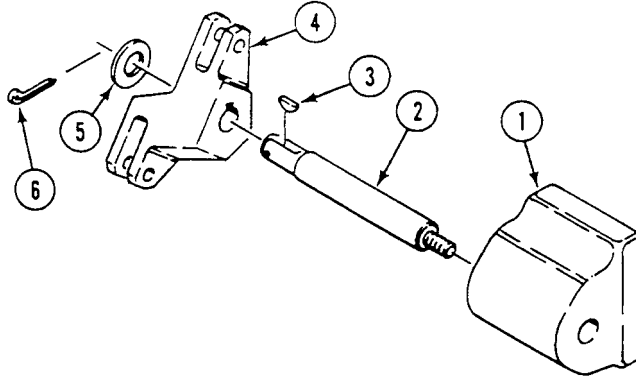
11. TAKE LINK (11) OUT OF VISE. REMOVE WASHER (14) AND COTTER PIN (15) FROM SHAFT (9). DISCARD COTTER PIN.



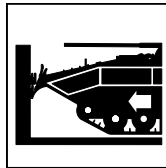
12. REMOVE LINK (11) FROM SHAFT (9).
13. REMOVE KEY (16) FROM SHAFT (9). DISCARD KEY.
14. REMOVE JOURNAL BEARING (10) FROM SHAFT (9).

**INSTALLATION**

1. INSTALL JOURNAL BEARING (1) ON SHAFT (2).



**WARNING**



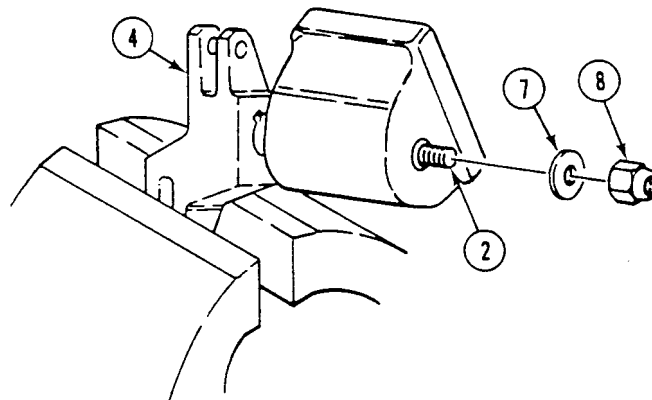
**Failure of control linkage can cause vehicle to crash. Crash could kill or injure personnel. Install new cotter pins and key.**

2. INSTALL NEW KEY (3) IN SHAFT (2).
3. INSTALL LINK (4) ON SHAFT (2). SECURE WITH WASHER (5) AND NEW COTTER PIN (6).

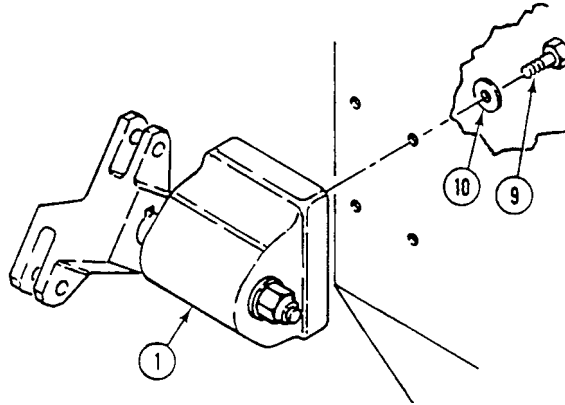
**CAUTION**

**Take care not to damage parts when using vise.**

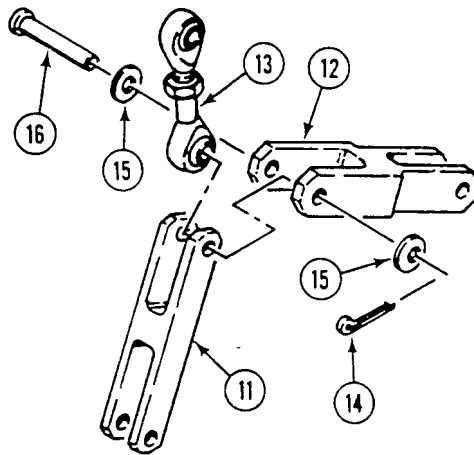
4. PUT LINK (4) IN VISE. INSTALL WASHER (7) AND NEW LOCKNUT (8) ON RIGHT SIDE OF SHAFT (2).



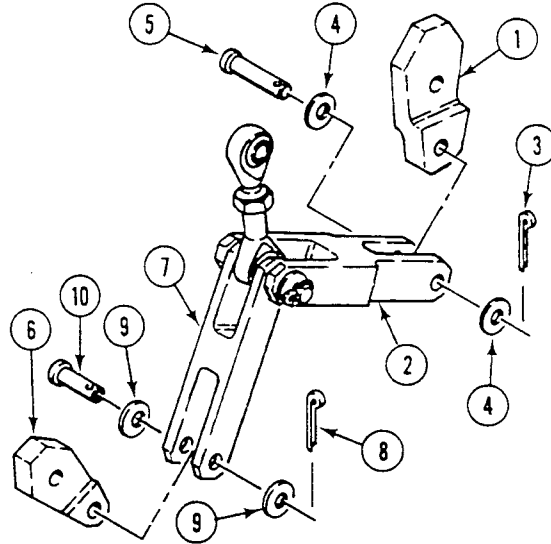
5. INSTALL JOURNAL BEARING (1) ON HULL. SECURE WITH FOUR SCREWS (9), AND WASHERS (10). HAVE HELPER ASSIST.



6. INSTALL TWO LINKS (11) AND (12) ON ROD (13). SECURE WITH NEW COTTER PIN (14), TWO WASHERS (15), AND CLEVIS PIN (16).

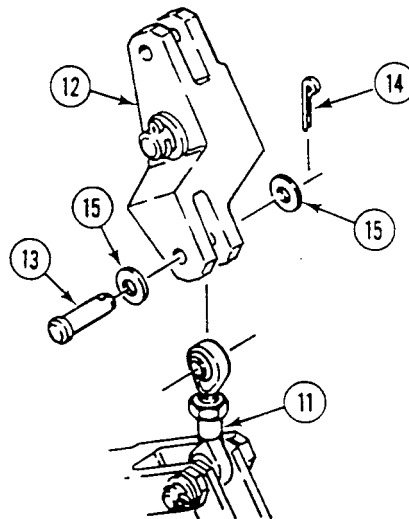


7. INSTALL RIGHT HAND BRAKE ARM (1) ON LINK (2). SECURE WITH NEW COTTER PIN (3), TWO WASHERS (4), AND CLEVIS PIN (5).

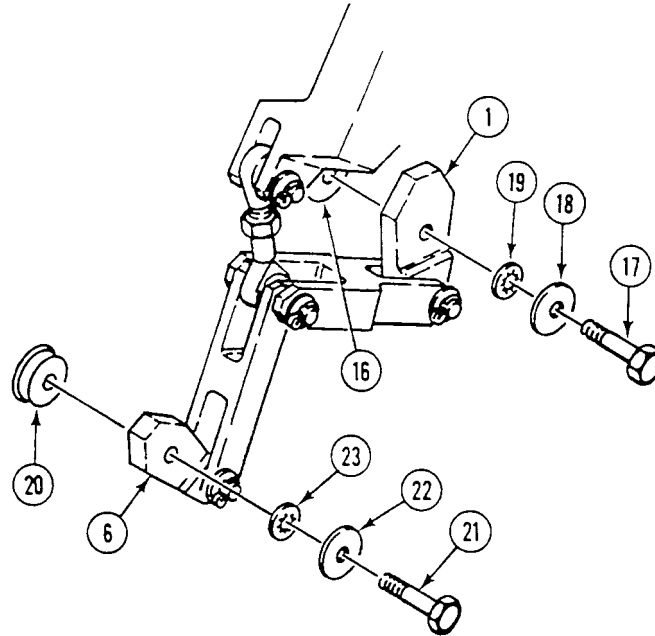


8. INSTALL LEFT HAND BRAKE ARM (6) ON LINK (7). SECURE WITH NEW COTTER PIN (8), TWO WASHERS (9), AND CLEVIS PIN (10).

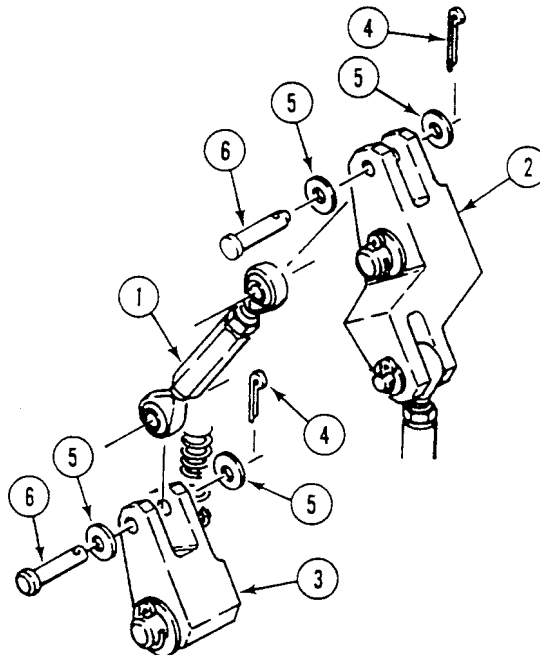
9. INSTALL ROD BEARING (11) ON CROSS-SHAFT LINK (12). SECURE WITH CLEVIS PIN (13), NEW COTTER PIN (14), AND TWO WASHERS (15).

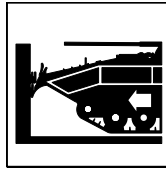


10. INSTALL BRAKE ARM (1) ON RIGHT HAND APPLY SHAFT (16). SECURE WITH SCREW (17), WASHER (18), AND NEW LOCKWASHER (19). TIGHTEN SCREW TO 25-27 LB-FT (34-37 N·m) TORQUE.



11. INSTALL BRAKE ARM (6) ON LEFT HAND APPLY SHAFT (20). SECURE WITH SCREW (21), WASHER (22), AND NEW LOCKWASHER (23). TIGHTEN SCREW TO 25-27 LB-FT (34-37 N·m) TORQUE.
12. INSTALL LINKAGE ROD (1) ON CROSS-SHAFT LINK (2) AND LINK (3). SECURE WITH TWO NEW COTTER PINS (4), FOUR WASHERS (5), AND TWO CLEVIS PINS (6).



**WARNING**

**Failure of brake control linkage can cause vehicle to crash. Crash could kill or injure personnel.  
Adjust service brake control linkage and install new cotter pin.**

13. ADJUST SERVICE BRAKE CONTROL LINKAGE (WP 0278 00).
14. INSTALL ENGINE ACCESS COVER PLATE (WP 0308 00).
15. INSTALL FRONT VISMOD ACCESS DOORS (WP 0307 00).

**END OF TASK**



**REPLACE PARKING BRAKE CONTROL CABLE ASSEMBLY**

**0283 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0283 00-1).
- Installation (page 0283 00-4).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

- Cotter pin
- Cotter pin
- Locknut (2)
- Locknut (4)

Equipment Condition

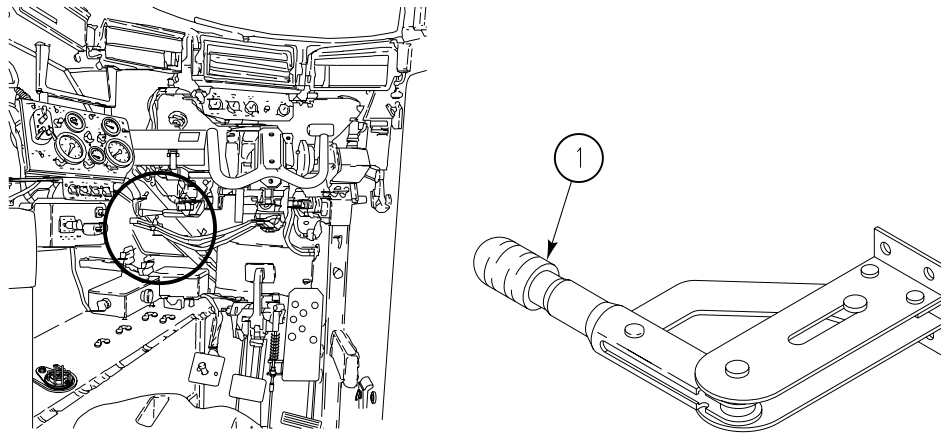
- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Hull front access cover removed (WP 0315 00)
- Front power plant access doors removed (TM 9-2350-366-10-1)

Personnel Required

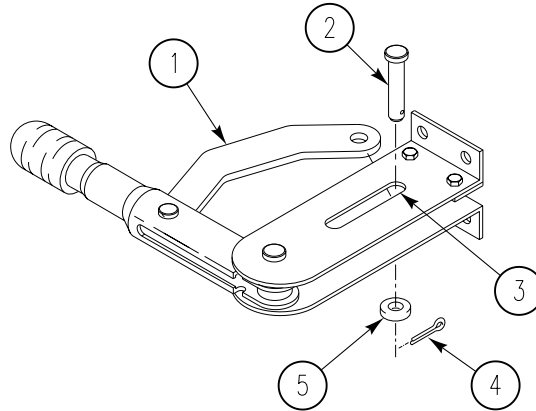
- Unit Mechanic 63T10
- Helper (H)

**REMOVAL**

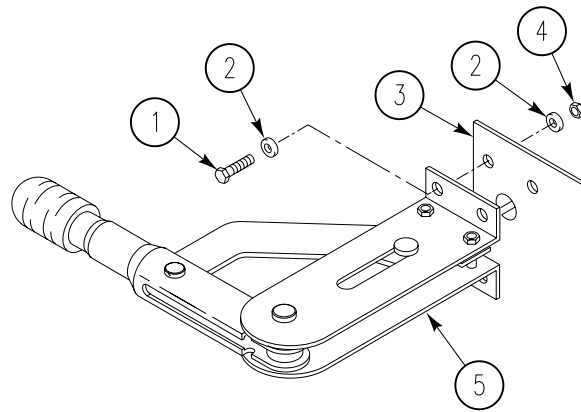
1. PUSH PARKING BRAKE LEVER (1) LEFT INTO OFF POSITION.



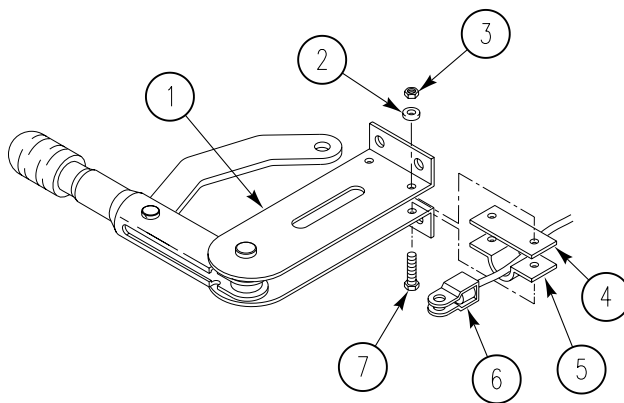
2. REMOVE COTTER PIN (4), WASHER (5), AND CLEVIS PIN (2) FROM CABLE CLEVIS (3) AND LEVER LINK (1). DISCONNECT LINK FROM CABLE. DISCARD COTTER PIN.



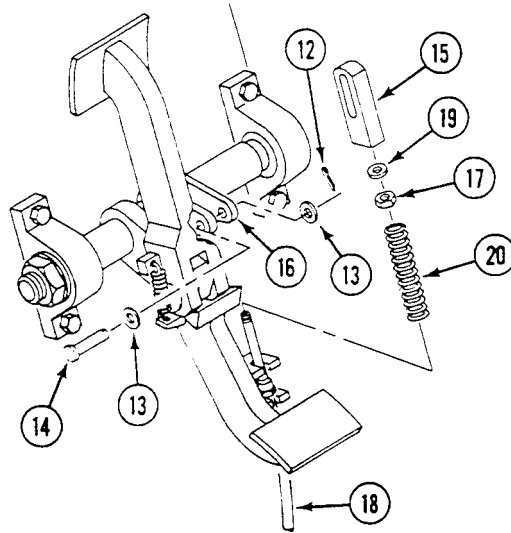
3. REMOVE FOUR SCREWS (1), EIGHT WASHERS (2), AND FOUR LOCKNUTS (4) FROM MOUNTING BRACKET (3). REMOVE LEVER (5) FROM BRACKET. DISCARD LOCKNUTS.



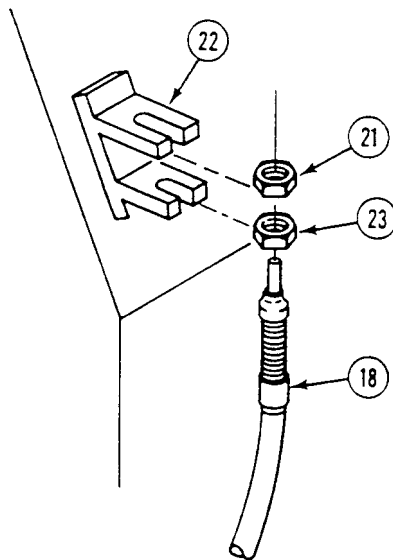
4. REMOVE TWO SCREWS (7), WASHERS (2), LOCKNUTS (3), CABLE (6), SPACER (4), AND RETAINING STRAP (5) FROM LEVER (1). DISCARD LOCKNUTS.



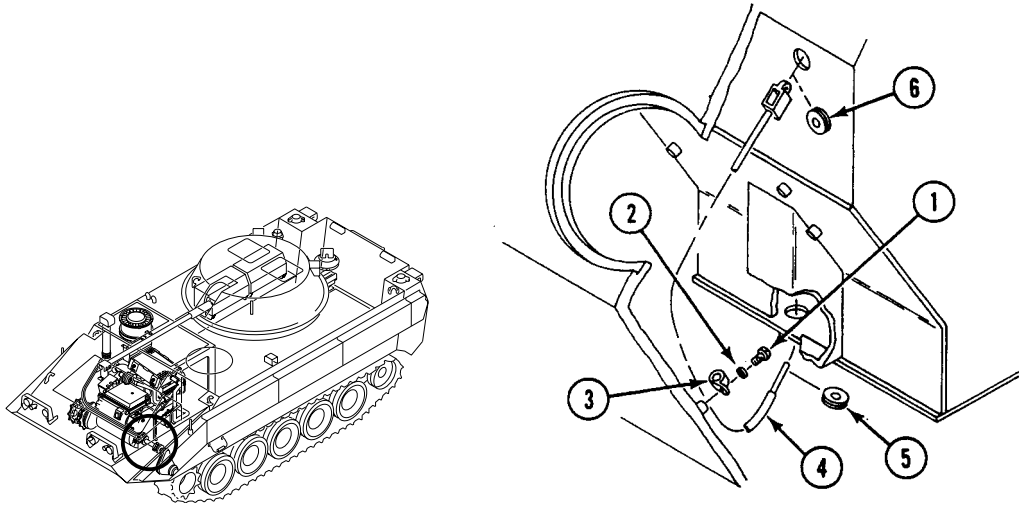
5. REMOVE COTTER PIN (12), TWO WASHERS (13), AND CLEVIS PIN (14) FROM CABLE STOP (15) AND LOWER BRAKE PEDAL LEVER LINK (16). DISCARD COTTER PIN.
6. LOOSEN JAMNUT (17) UNDER CABLE STOP (15) ON CABLE (18). REMOVE CABLE STOP, WASHER (19), JAMNUT, AND SPRING (20) FROM CABLE.



7. REMOVE TOP JAMNUT (21) FROM CABLE (18). REMOVE CABLE FROM MOUNTING BRACKET (22).
8. REMOVE JAMNUT (23) FROM CABLE (18).

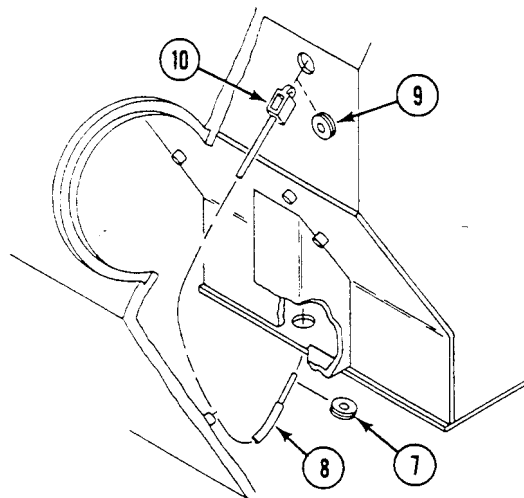


9. REMOVE SCREW (1), WASHER (2), CLAMP (3), CABLE (4), AND TWO GROMMETS (5) AND (6) FROM CARRIER THROUGH POWER PLANT FRONT ACCESS. HAVE HELPER ASSIST.

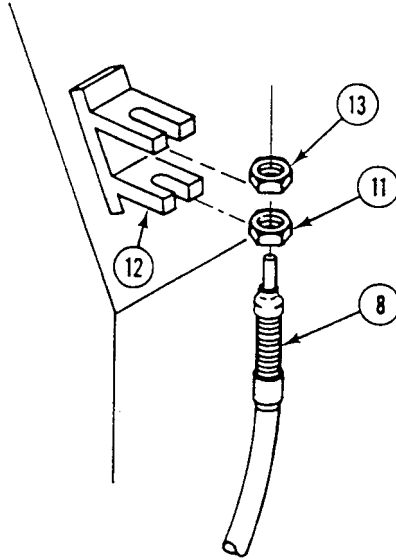


**INSTALLATION**

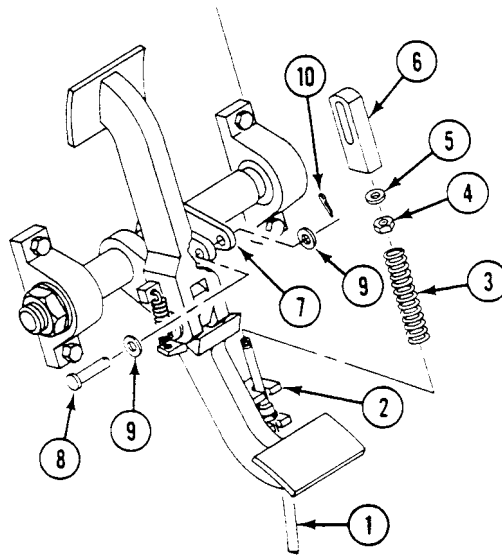
1. INSTALL GROMMET (7) ON THREADED END OF CABLE (8). ROUTE CABLE THROUGH DRIVER'S COMPARTMENT FLOOR PLATE ACCESS HOLE. INSTALL GROMMET IN ACCESS HOLE. HAVE HELPER ASSIST.
2. INSTALL GROMMET (9) ON CABLE (8). ROUTE CABLE CLEVIS (10) THROUGH HOLE IN DRIVER'S COMPARTMENT BULKHEAD. INSTALL GROMMET IN HOLE. HAVE HELPER ASSIST.



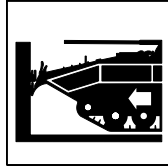
3. INSTALL JAMNUT (11) ON CABLE (8).
4. INSTALL CABLE (8) IN HOLE OF LOWER MOUNTING BRACKET (12) WITH JAMNUT (11) UNDER LOWER BRACKET.
5. INSTALL SECOND JAMNUT (13) ON CABLE (8). THREAD JAMNUT ON CABLE UNTIL TIGHT AGAINST LOWER MOUNTING BRACKET (12).



6. INSTALL CABLE (1) IN HOLE OF UPPER MOUNTING BRACKET (2).
7. INSTALL SPRING (3), THIRD JAMNUT (4) AND WASHER (5) ON CABLE (1). INSTALL BRAKE STOP (6) ON CABLE END. ALLOW 3/4 INCH (1.9 CM) MINIMUM THREAD ENGAGEMENT INTO BRAKE STOP (6).

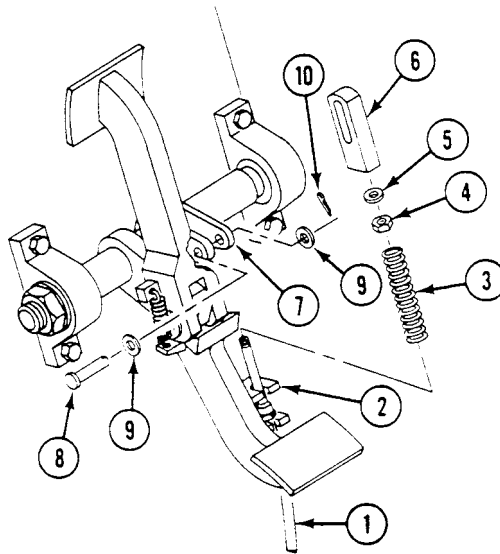


**WARNING**

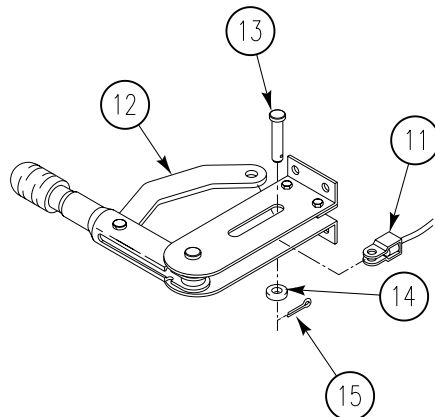


**Failure of control linkage can cause carrier to crash. Crash could kill or injure personnel.  
Install new cotter pins and locknuts.**

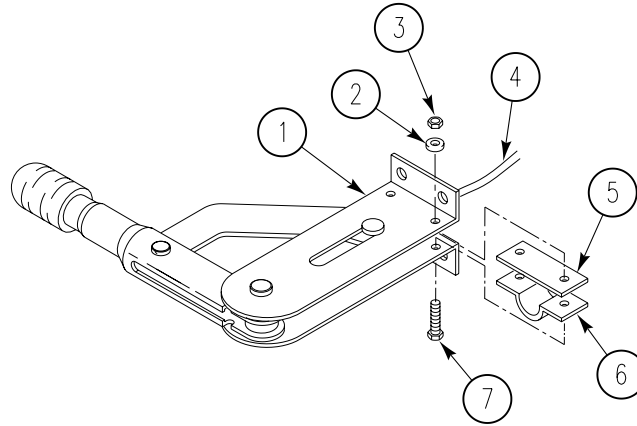
8. INSTALL BRAKE STOP (6) ON LOWER BRAKE PEDAL LEVER LINK (7). SECURE WITH CLEVIS PIN (8), TWO WASHERS (9), AND NEW COTTER PIN (10).



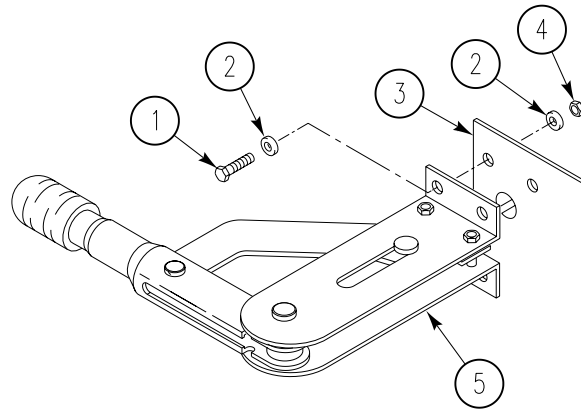
9. INSTALL CABLE CLEVIS (11) IN LINK OF PARKING BRAKE LEVER (12). SECURE WITH CLEVIS PIN (13), WASHER (14), AND NEW COTTER PIN (15).



10. INSTALL CABLE (4), SPACER (5), AND RETAINING STRAP (6) ON LEVER (1). SECURE WITH TWO SCREWS (7), WASHERS (2), AND NEW LOCKNUTS (3).



11. INSTALL LEVER (5) ON MOUNTING BRACKET (3). SECURE WITH FOUR SCREWS (1), EIGHT WASHERS (2), AND FOUR NEW LOCKNUTS (4).



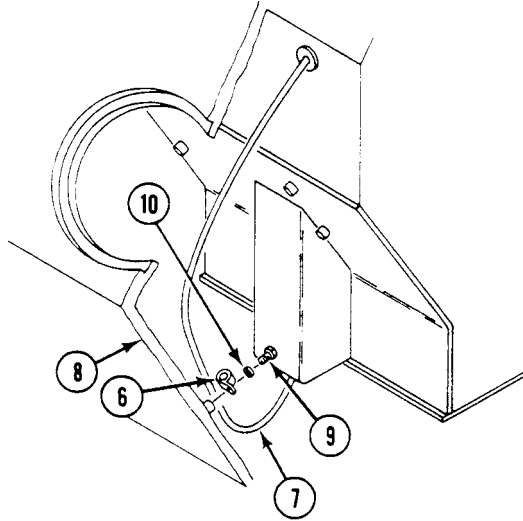
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**REPLACE PARKING BRAKE CONTROL CABLE ASSEMBLY — Continued**

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**0283 00**

12. INSTALL CLAMP (6) ON CABLE (7). SECURE CLAMP TO FRONT PLATE OF HULL (8) WITH SCREW (9) AND WASHER (10).



13. ADJUST PARKING BRAKE (WP 0277 00).  
14. INSTALL HULL FRONT ACCESS COVER (WP 0315 00).  
15. INSTALL FRONT POWER PLANT ACCESS DOORS. See TM 9-2350-366-10-1.

**END OF TASK**



**REPLACE UPPER AND LOWER SERVICE BRAKE PEDAL**

**0284 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0284 00-1).
- Installation (page 0284 00-5).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Lubricating gun (WP 0397 00, Item 29)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Driver's power plant access panel removed (WP 0312 00)
- Power plant rear access panels removed (WP 0309 00)
- Hull front access cover removed (WP 0315 00)
- Front VISMODO access doors removed (WP 0307 00)
- Engine access cover plate removed (WP 0308 00)

Materials/Parts

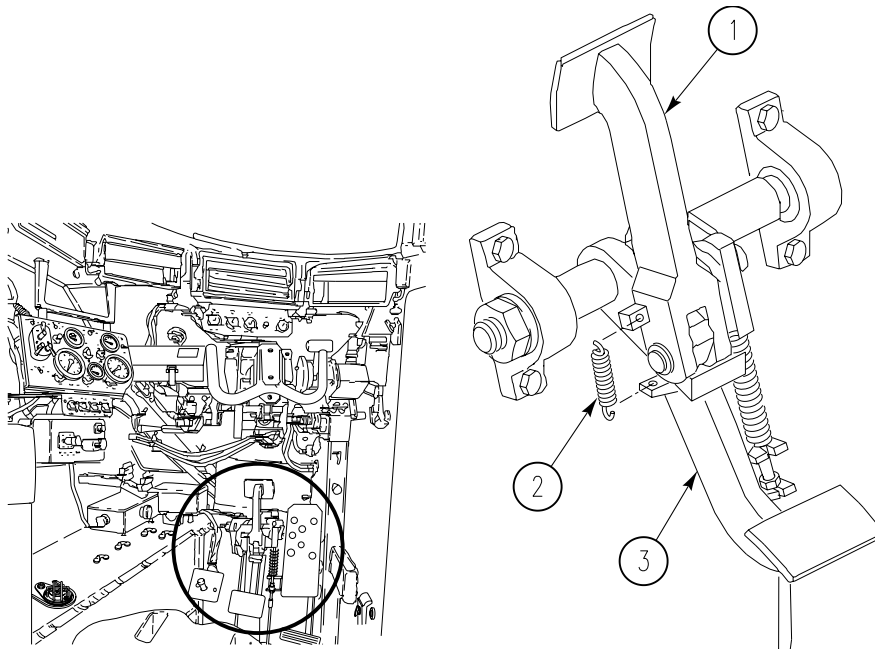
- Cotter pin (3)
- Cotter pin
- Grommet
- Key
- Locknut
- Lockwasher (4)
- Mount bearing (2)

Personnel Required

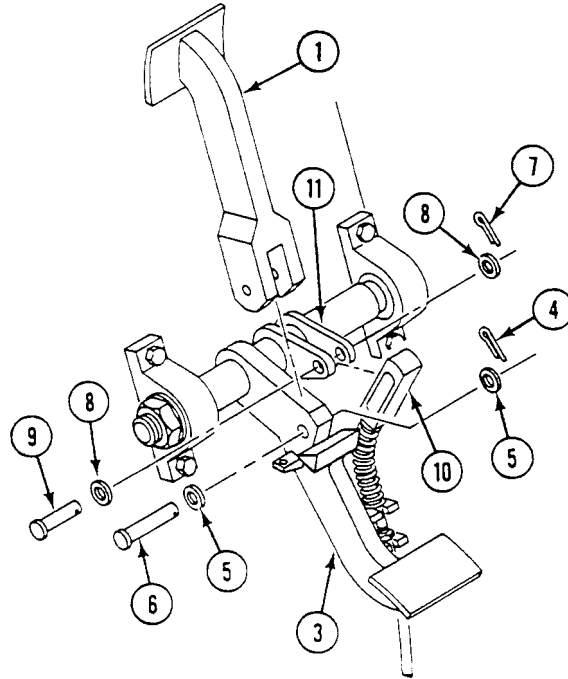
- Unit Mechanic 63T10
- Helper (H)

**REMOVAL**

1. PULL UPPER BRAKE PEDAL (1) TO UPPER POSITION. REMOVE SPRING (2) THAT CONNECTS BOTH UPPER AND LOWER BRAKE PEDALS (1)(3).

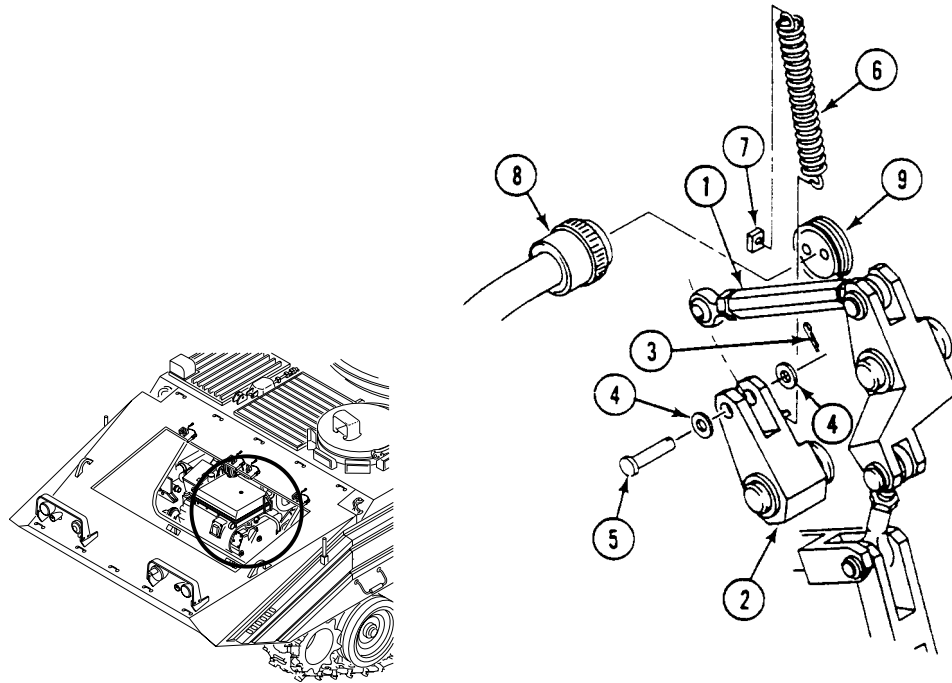


2. REMOVE COTTER PIN (4), TWO WASHERS (5), AND CLEVIS PIN (6) FROM UPPER AND LOWER BRAKE PEDALS (1) AND (3). REMOVE UPPER PEDAL FROM LOWER PEDAL. DISCARD COTTER PIN.

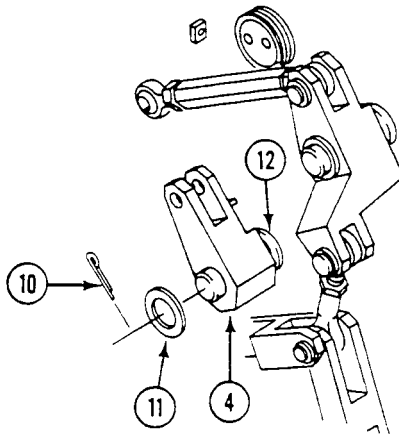


3. REMOVE COTTER PIN (7), TWO WASHERS (8), CLEVIS PIN (9), AND CABLE STOP (10) FROM LOWER BRAKE PEDAL LEVER (11). DISCARD COTTER PIN.

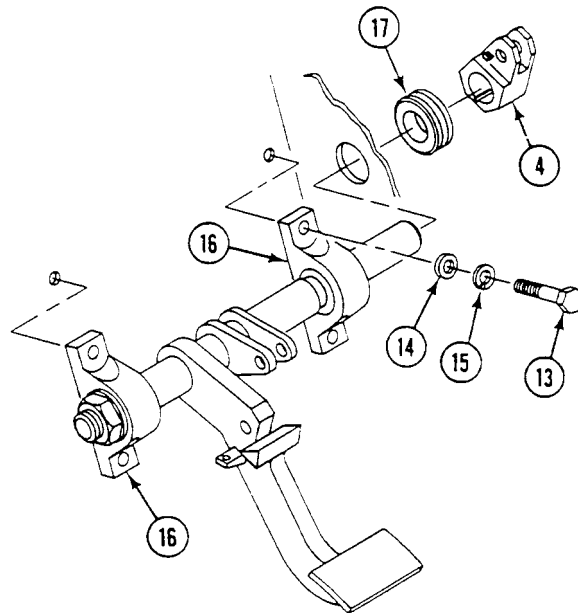
4. DISCONNECT STARTER CANNON PLUG (8) FROM POWER PLANT COMPARTMENT BULKHEAD (9).
5. REMOVE RELEASE SPRING (6) FROM LINK (2) AND POWER PLANT COMPARTMENT BULKHEAD (7).
6. REMOVE COTTER PIN (3), TWO WASHERS (4), CLEVIS PIN (5), AND LINKAGE ROD (1) FROM LINK (2). DISCARD COTTER PIN.



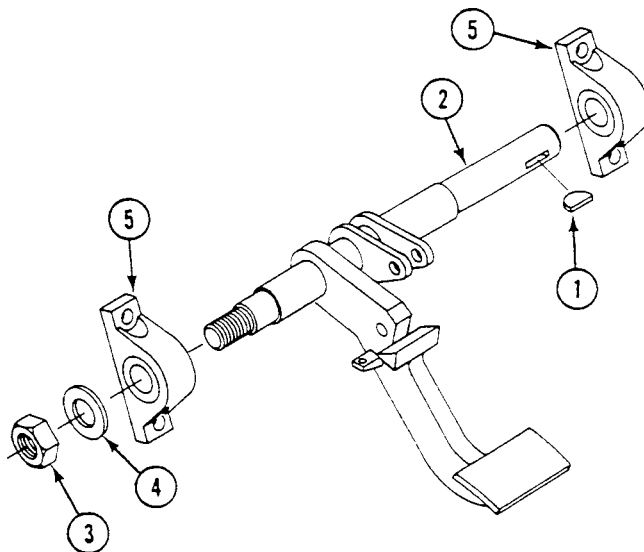
7. REMOVE COTTER PIN (10) AND WASHER (11) FROM LINK (4) AND SHAFT (12). SLIDE LINK AS FAR OFF SHAFT AS POSSIBLE. DISCARD COTTER PIN.



8. REMOVE FOUR SCREWS (13), WASHERS (14), AND LOCKWASHERS (15) FROM TWO MOUNT BEARINGS (16). DISCARD LOCKWASHERS.
9. REMOVE SHAFT WITH ATTACHED BEARINGS (16) FROM DRIVER'S COMPARTMENT. HAVE HELPER ASSIST TO CATCH LINK (4) IN POWER PLANT FRONT ACCESS HOLE.
10. REMOVE GROMMET (17) FROM DRIVER'S COMPARTMENT BULKHEAD. DISCARD GROMMET. REMOVE SHAFT ASSEMBLY FROM VEHICLE.



11. REMOVE KEY (1) FROM SHAFT (2). DISCARD KEY.



12. REMOVE LOCKNUT (3) AND WASHER (4) FROM SHAFT (2). DISCARD LOCKNUT.

13. SLIDE ATTACHED MOUNT BEARINGS (5) OFF SHAFT (2). DISCARD BEARINGS.

**INSTALLATION**

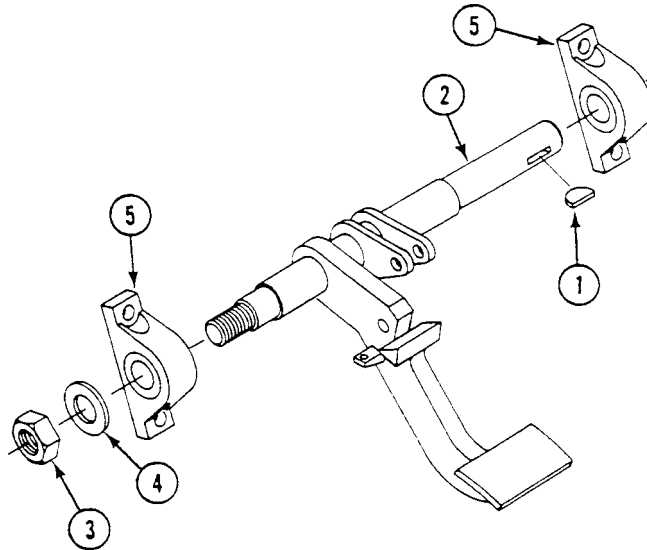
1. GREASE TWO NEW MOUNT BEARINGS (5). See TM 9-2350-366-10-1.
2. INSTALL TWO MOUNT BEARINGS (5) ON SHAFT (2).

**WARNING**

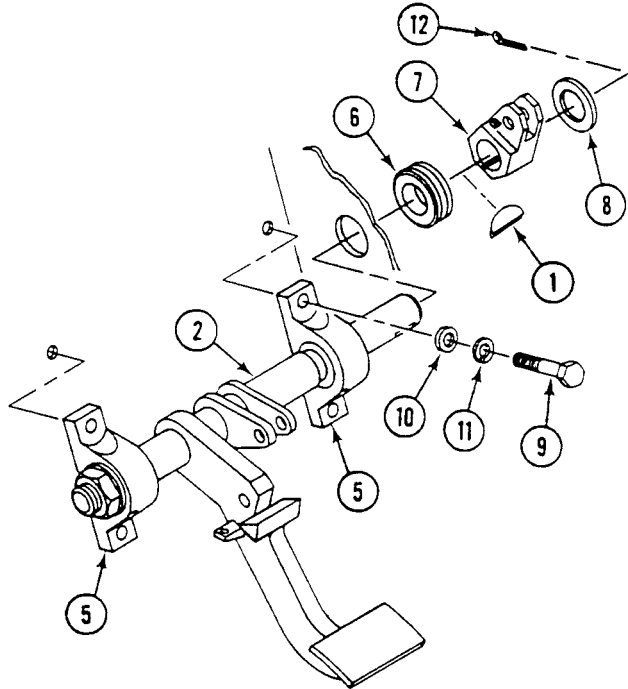


**Failure of control linkage can cause vehicle to crash. Crash could kill or injure personnel.  
Install NEW cotter pins, locknuts, and lockwashers.**

3. INSTALL NEW LOCKNUT (3) AND WASHER (4) ON LEFT SIDE OF SHAFT (2).

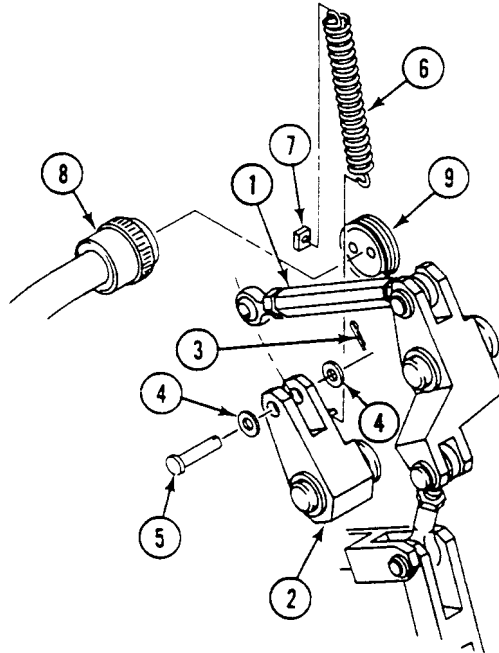


4. SLIDE SHAFT (2) INTO DRIVER'S COMPARTMENT BULKHEAD. INSTALL NEW GROMMET (6) ON SHAFT. INSTALL GROMMET IN BULKHEAD.



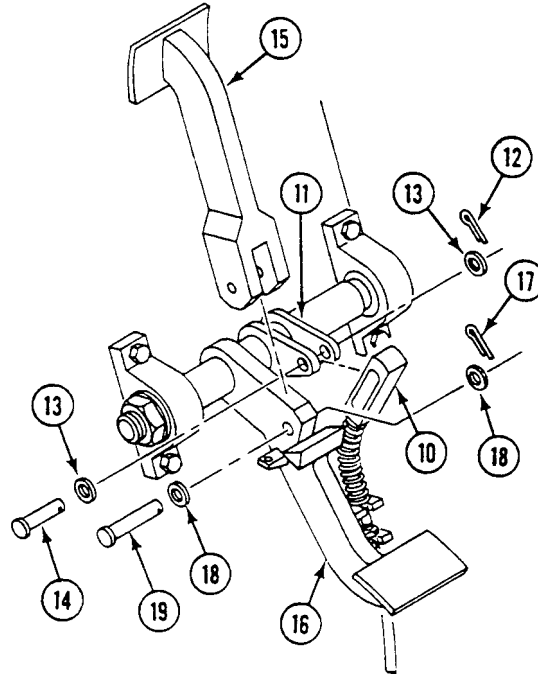
5. INSTALL NEW KEY (1) ON SHAFT (2).
6. (H): INSTALL LINK (7) AND WASHER (8) ON SHAFT (2).
7. INSTALL TWO MOUNT BEARINGS (5) ON DRIVER'S COMPARTMENT FLOOR. SECURE WITH FOUR SCREWS (9), WASHERS (10), AND NEW LOCKWASHERS (11).
8. (H): SECURE LINK (7) TO SHAFT (2) WITH NEW COTTER PIN (12).

9. INSTALL LINKAGE ROD (1) ON CROSS-SHAFT LINK (2). SECURE WITH NEW COTTER PIN (3), TWO WASHERS (4), AND CLEVIS PIN (5).

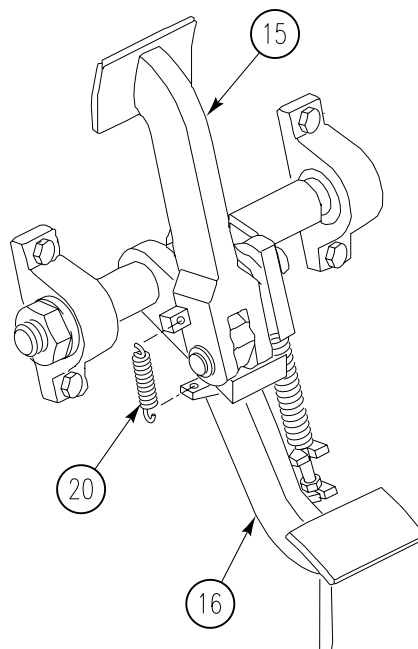


10. INSTALL RELEASE SPRING (6) ON LINK (2) AND POWER PLANT BULKHEAD (7).  
 11. INSTALL STARTER CANNON PLUG (8) ON POWER PLANT BULKHEAD (9).

12. INSTALL CABLE STOP (10) ON LOWER BRAKE PEDAL LEVER (11) IN DRIVER'S COMPARTMENT. SECURE WITH NEW COTTER PIN (12), TWO WASHERS (13), AND CLEVIS PIN (14).



13. INSTALL UPPER BRAKE PEDAL (15) ON LOWER BRAKE PEDAL (16). SECURE WITH NEW COTTER PIN (17), TWO WASHERS (18), AND CLEVIS PIN (19).
14. PULL UPPER BRAKE PEDAL (15) TO UPPER POSITION. INSTALL SPRING (20) ON UPPER AND LOWER BRAKE PEDALS (15)(16).





15. ADJUST SERVICE BRAKE CONTROL LINKAGE (WP 0278 00).
16. INSTALL HULL FRONT ACCESS COVER (WP 0315 00).
17. INSTALL POWER PLANT REAR ACCESS PANEL (WP 0309 00).
18. INSTALL DRIVER'S POWER PLANT ACCESS PANEL (WP 0312 00).
19. INSTALL ENGINE ACCESS COVER PLATE (WP 0308 00).
20. INSTALL FRONT VISMODO ACCESS DOORS (WP 0307 00).

**END OF TASK**



**REPLACE STOP SWITCH**

**0285 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0285 00-1).
- Cleaning (page 0285 00-2).
- Installation (page 0285 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Multimeter (WP 0397 00, Item 30)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Disconnect/connect battery ground strap (WP 0237 00)

Materials/Parts

- Cleaning solvent (WP 0399 00, Item 17)

Personnel Required

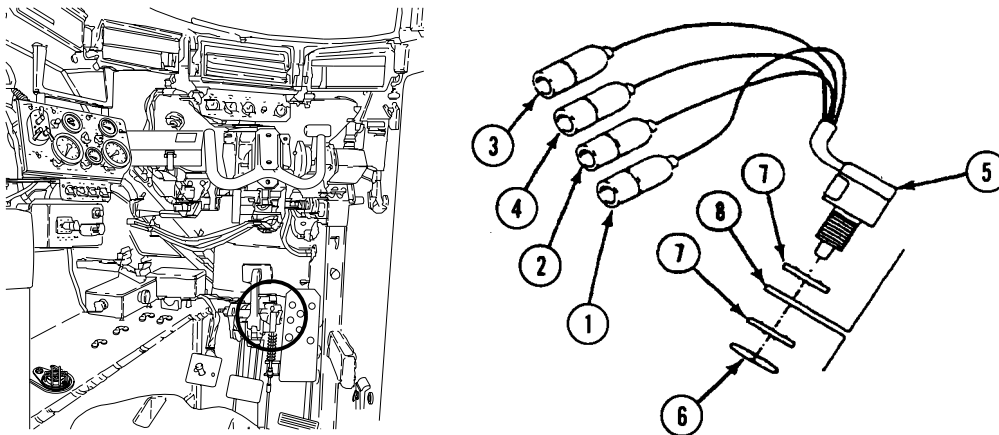
Unit Mechanic 63T10

**REMOVAL**

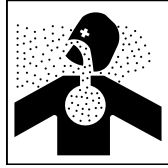
**NOTE**

**Tag all leads before removal.**

1. DISCONNECT CIRCUIT 75A LEAD (1) CIRCUIT 75B LEAD (2), CIRCUIT 366 LEAD (3), AND CIRCUIT 366 LEAD (4) FROM STOP SWITCH (5). REMOVE LEADS FROM SWITCH.
2. REMOVE JAMNUT (6), TWO WASHERS (7), AND SWITCH (5) FROM BRACKET (8).



## CLEANING

**WARNING**

Solvent fumes and fluid are poisonous and can cause skin irritation.

Solvent may be harmful if swallowed. Avoid skin contact and breathing of fumes. Read solvent warning at the front of this manual.

**WARNING**

Solvent evaporates rapidly and makes fumes that are flammable.

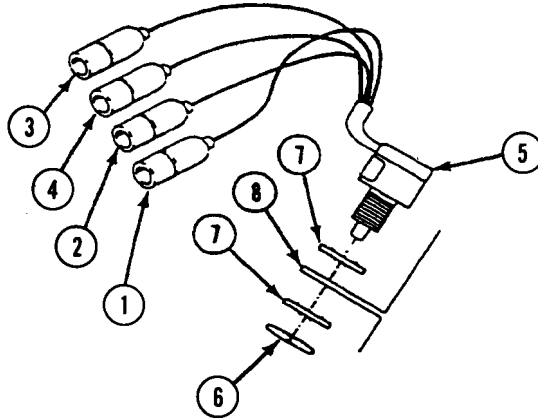
Do not smoke or allow open flames near solvent fumes.

Read solvent warning at the front of this manual.

1. CLEAN SWITCH WITH CLEANING SOLVENT.
2. CHECK CIRCUIT 75A LEAD AND CIRCUIT 75B LEAD FOR CONTINUITY WITH SWITCH PLUNGER DEPRESSED. IF TEST INDICATES OPEN CIRCUIT, REPLACE DEFECTIVE SWITCH.
3. CHECK CIRCUIT 366 LEAD AND CIRCUIT 366A LEAD FOR CONTINUITY WITH SWITCH PLUNGER RELEASED. IF TEST INDICATES OPEN CIRCUIT, REPLACE DEFECTIVE SWITCH.

**INSTALLATION**

1. PLACE SWITCH (5), ON BRACKET (8). SECURE WITH TWO WASHERS (7) AND JAMNUT (6).
2. CONNECT CIRCUIT 75A LEAD (1) CIRCUIT 75B LEAD(2), CIRCUIT 366A LEAD(3), AND CIRCUIT 366A LEAD (4) TO STOP SWITCH (5).



3. CONNECT BATTERY GROUND STRAP.

**END OF TASK**



**REPLACE PARKING BRAKE SWITCH/BRACKET**

**0286 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0286 00-1).
- Cleaning (page 0286 00-2).
- Installation (page 0286 00-3).
- Adjustment (page 0286 00-4).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Multimeter (WP 0397 00, Item 30)

References

TM 9-2350-366-10-1

Materials/Parts

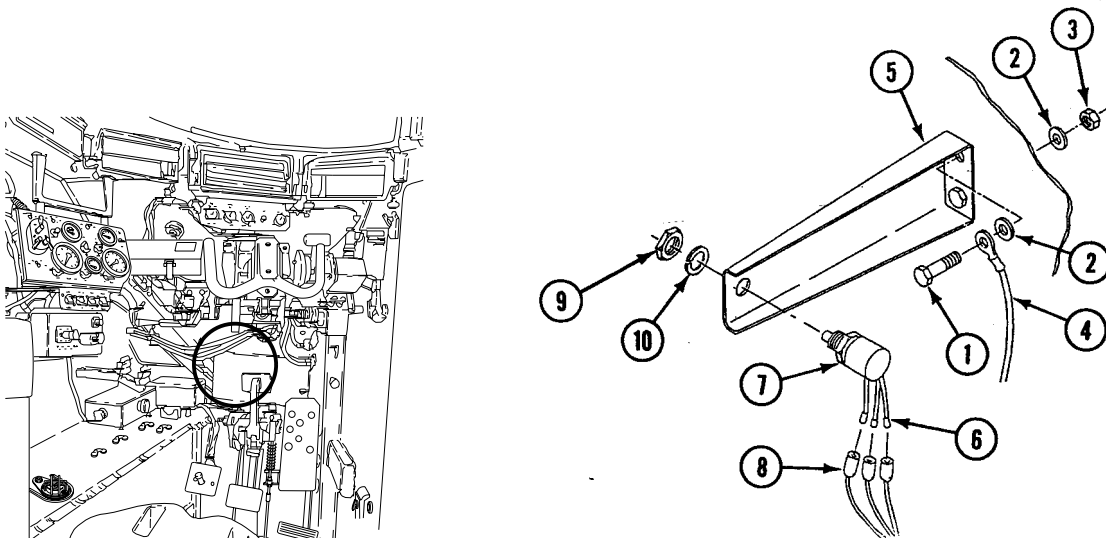
- Cleaning compound (WP 0399 00, Item 17)
- Wiping rag (WP 0399 00, Item 64)
- Locknut (1 or 2)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Battery ground strap disconnected (WP 0237 00)

**REMOVAL**

1. REMOVE SCREW (1), TWO WASHERS (2), LOCKNUT (3), AND SWITCH GROUND LEAD (4) FROM BRACKET (5). DISCARD LOCKNUT.



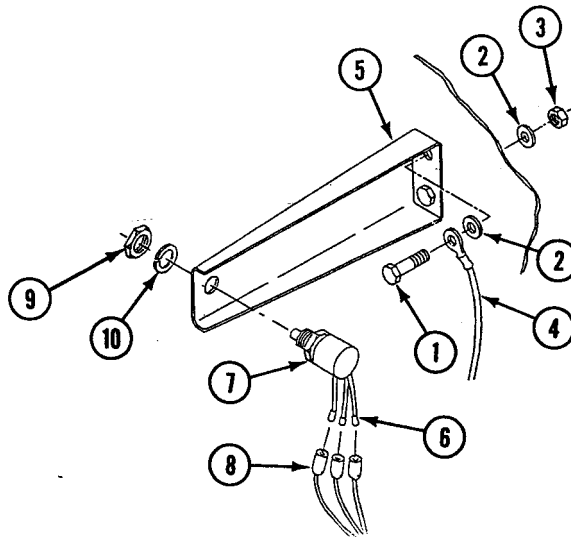
**REPLACE PARKING BRAKE SWITCH/BRACKET — Continued****0286 00**

2. DISCONNECT THREE PLUGS (6) ON SWITCH (7) FROM WIRING HARNESS (8) LEADS 366A, 367, AND 370.
3. REMOVE JAMNUT (9) AND LOCKWASHERS (10) FROM SWITCH (7). REMOVE SWITCH FROM BRACKET (5).

**NOTE**

**Do Step 4 if bracket needs to be removed.**

4. REMOVE OTHER SCREW (1), TWO WASHERS (2), AND LOCKNUT (3) THAT SECURE BRACKET (5) TO HULL. REMOVE BRACKET FROM HULL. DISCARD LOCKNUT.

**CLEANING**

1. CLEAN SWITCH WITH DRY RAG.
2. CLEAN SWITCH WITH CLEANING COMPOUND.
3. CHECK CIRCUIT 370 LEAD AND GROUND LEAD FOR CONTINUITY WITH SWITCH PLUNGER DEPRESSED. IF TEST INDICATES OPEN CIRCUIT, REPLACE DEFECTIVE SWITCH.
4. CHECK CIRCUIT 367 LEAD AND 366A LEAD FOR CONTINUITY WITH SWITCH PLUNGER RELEASED. IF TEST INDICATES OPEN CIRCUIT, REPLACE DEFECTIVE SWITCH.

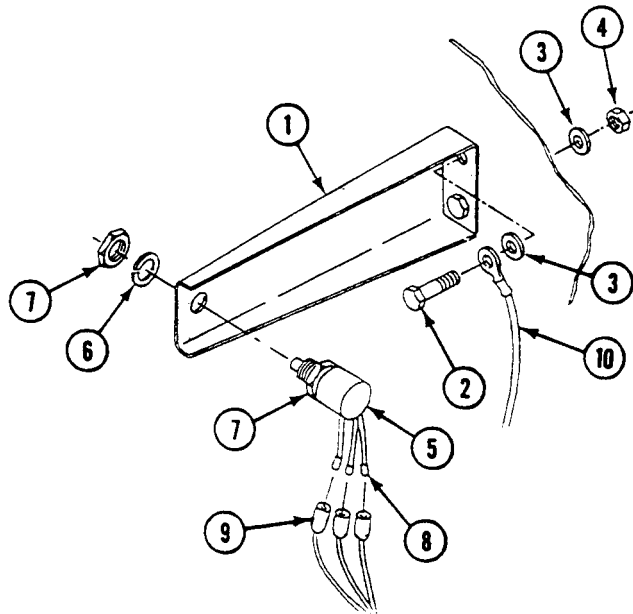


## INSTALLATION

## NOTE

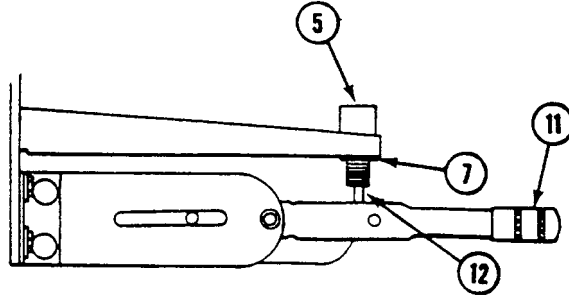
Do Step 1 if bracket was removed.

1. INSTALL BRACKET (1) ON HULL. SECURE WITH ONE SCREW (2), TWO WASHERS (3), AND NEW LOCKNUT (4). TIGHTEN SCREW.
2. INSTALL SWITCH (5) ON BRACKET (1). SECURE WITH LOCK WASHER (6) AND JAMNUT (7). DO NOT TIGHTEN NUT.
3. CONNECT THREE PLUGS (8) ON SWITCH (5) TO WIRING HARNESS (9) LEADS 366A, 367, AND 370. MAKE SURE LEAD NUMBERS MATCH.
4. INSTALL SWITCH GROUND LEAD (10) ON BRACKET (1). SECURE WITH OTHER SCREW (2), TWO WASHERS (3), AND NEW LOCKNUT (4). TIGHTEN SCREW.



**ADJUSTMENT**

1. POSITION PARKING BRAKE (11) ON. ADJUST JAMNUTS (7) UNTIL SWITCH PLUNGER (12) IS FULLY DEPRESSED. TIGHTEN JAMNUTS.



2. CONNECT BATTERY GROUND STRAP (WP 0237 00).
3. TURN MASTER SWITCH TO ON. See TM 9-2350-366-10-1.
4. WITH PARKING BRAKE HANDLE PULLED, PARKING BRAKE INDICATOR LIGHT SHOULD BE ON. See TM 9-2350-366-10-1.
5. RELEASE PARKING BRAKE HANDLE. PARKING BRAKE INDICATOR LIGHT SHOULD GO OFF. See TM 9-2350-366-10-1.
6. TURN MASTER SWITCH TO OFF. See TM 9-2350-366-10-1.
7. RESET PARKING BRAKE HANDLE. See TM 9-2350-366-10-1.

**END OF TASK**

CHAPTER 24

UNIT MAINTENANCE INSTRUCTIONS  
FOR SUSPENSION

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**WORK PACKAGE INDEX**

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| <u>Title</u>   | <u>Sequence No.</u> |
|--|---------------------|
| REPLACE TORSION BAR.....                                 | .0287 00            |
| REPLACE TORSION BAR ANCHOR.....                          | .0288 00            |
| REPLACE ROAD WHEEL SUPPORT ARM, BEARINGS, AND SEALS..... | .0289 00            |
| REPLACE ROAD WHEEL HUB.....                              | .0290 00            |
| REPLACE ROAD WHEEL.....                                  | .0291 00            |
| REPLACE IDLER WHEEL.....                                 | .0292 00            |



**REPLACE TORSION BAR**

**0287 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0287 00-1).
- Installation (page 0287 00-5).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Adapter (WP 0397 00, Item 6)
- Road wheel lifter (WP 0397 00, Item 28)
- Socket head cap screw (WP 0397 00, Item 45)
- Puller (WP 0397 00, Item 38)
- Socket wrench attachment (WP 0397 00, Item 53)
- Torque wrench (WP 0397 00, Item 83)

Materials/Parts

- Grease (WP 0399 00, Item 11)

Personnel Required

- Unit Mechanic 63T10
- Helper (H)

References

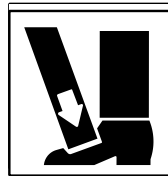
- TM 9-2350-366-10-1

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle on level surface
- Vehicle blocked (TM 9-2350-366-10-1)
- Road wheel removed (WP 0291 00)
- Shock absorber removed from second or fifth road wheel (WP 0352 00).
- Power plant removed for first torsion bar, right side only (WP 0106 00)
- Driver's front floor plate removed for first torsion bar, left side only (WP 0343 00)
- Power plant rear access panel removed for second torsion bar, right side only (WP 0309 00)
- Driver's rear floor plate removed for second torsion bar, left side only (WP 0343 00)
- Floor plates removed for third and fourth torsion bar (WP 0343 00)

**REMOVAL**

**WARNING**



**If road wheel lifter slips while lowering road arm, it could injure you. Stand clear before you lower road arm.**

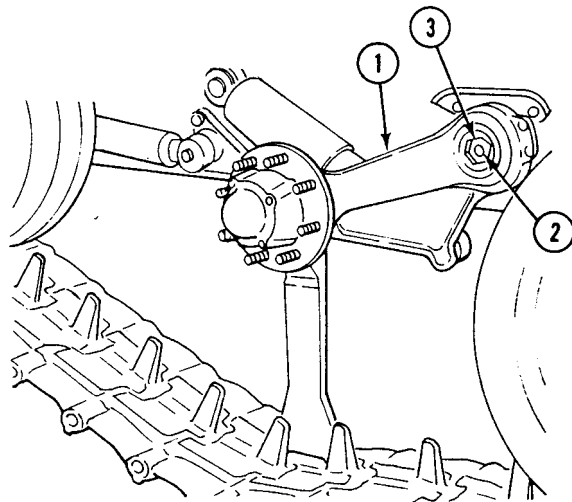
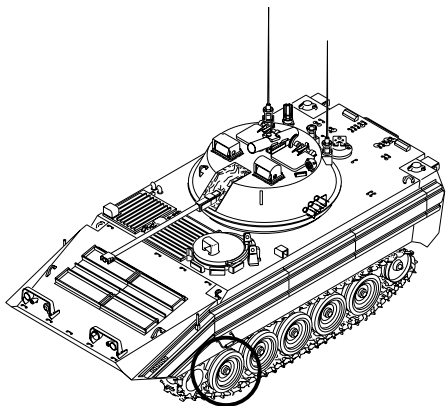
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**REPLACE TORSION BAR — Continued**

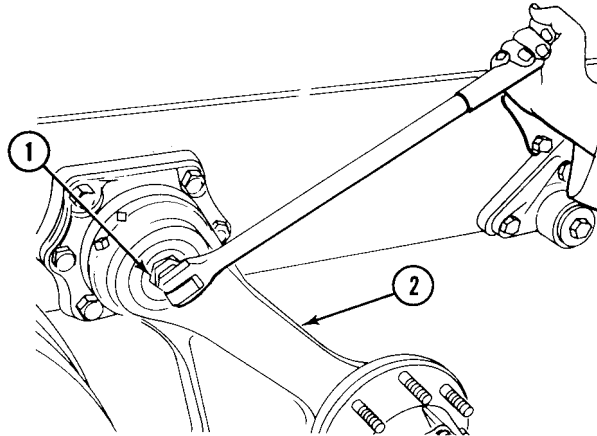
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**0287 00**

1. WITH ROAD WHEEL REMOVED AND ROAD ARM RAISED ON LIFTER, START ENGINE. See TM 9-2350-366-10-1. PLACE RANGE SELECTOR IN 1. SLOWLY DRIVE CARRIER FORWARD OFF LIFTER SO THAT ROAD WHEEL SUPPORT ARM (1) HANGS FREELY.
2. REMOVE SCREW (2) FROM PLUG (3).



3. REMOVE PLUG (1) FROM ROAD WHEEL SUPPORT ARM (2). USE SOCKET WRENCH ATTACHMENT.



**NOTE**

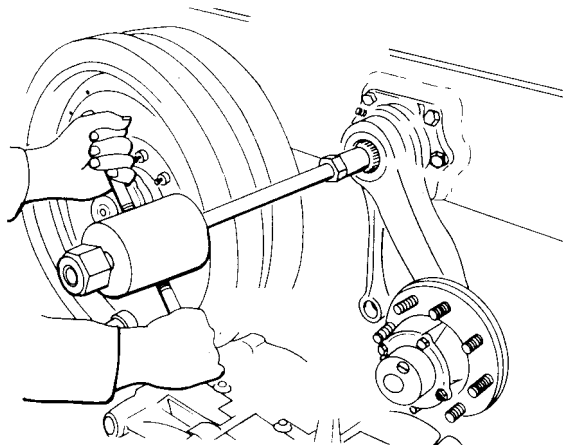
Special socket head cap screw is used with adapter.

4. THREAD SPECIAL SCREW THROUGH ADAPTER.

**NOTE**

Screw is installed with head inside adapter.

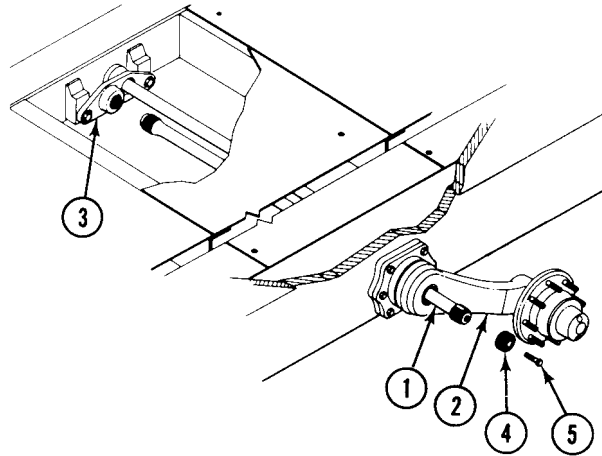
5. THREAD ADAPTER ON PULLER, THEN THREAD ADAPTER WITH SCREW INTO TORSION BAR.



**CAUTION**

When removing or installing torsion bars, the index or missing tooth on the anchor end of torsion bar must align with index on spline in road wheel arm, to allow bar to pass through.

6. PULL TORSION BAR (1) FROM TORSION BAR ANCHOR (3). USE SLIDE HAMMER ON PULLER.



7. REMOVE PULLER AND ADAPTER FROM TORSION BAR.
8. IF TORSION BAR (1) IS BROKEN, REMOVE AS FOLLOWS:
  - a. Remove road wheel end of torsion bar in the same way as unbroken torsion bar.
  - b. Pull or drive end of broken bar from its splined seat in torsion bar anchor (3).



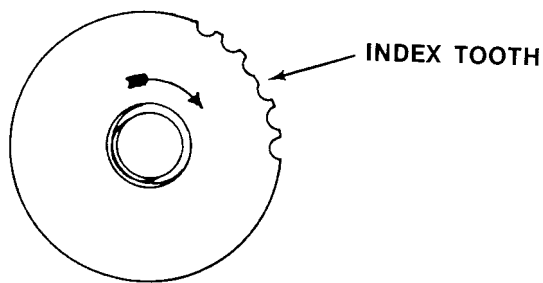
## INSTALLATION

**CAUTION**

When removing or installing torsion bars, the index or missing tooth on the anchor end of torsion bar must align with index on spline in road wheel arm, to allow bar to pass through.

**CAUTION**

Align index or missing tooth on end of torsion bar with index on road wheel arm and torsion bar anchor before installing.

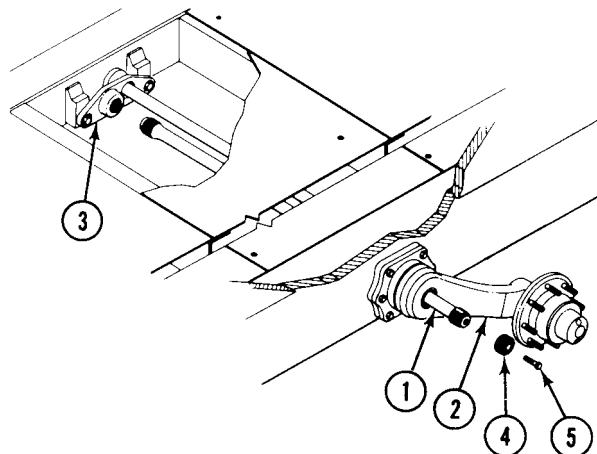
**CAUTION**

Handle torsion bar with care. Do not tear or cut wrapping.

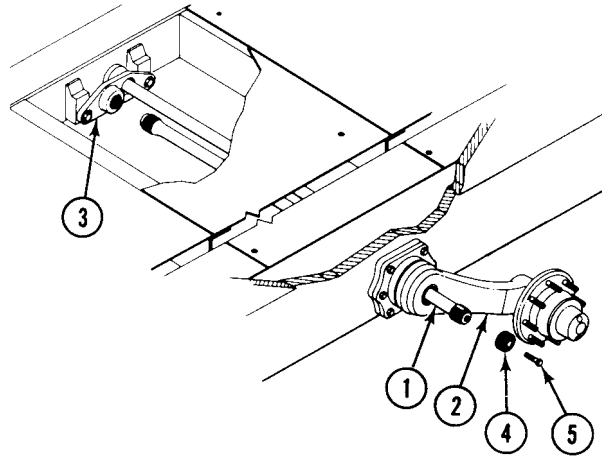
**NOTE**

Left and right torsion bars are not interchangeable. To determine correct bar, place arrow on end of torsion bar outboard, with arrow at top. Arrow must point toward front of carrier.

1. THREAD PULLER WITH ADAPTER AND SCREW INTO TORSION BAR.
2. INSTALL TORSION BAR (1) THROUGH ROAD WHEEL ARM (2) AND ANCHOR (3). HAVE HELPER GUIDE TORSION BAR INTO ANCHOR TO ENSURE PROPER ALIGNMENT. USE SLIDE HAMMER ON PULLER TO SEAT TORSION BAR.



3. REMOVE PULLER AND ADAPTER FROM TORSION BAR.
4. PUT A LIGHT COAT OF GREASE ON THREADS OF PLUG (4). INSTALL PLUG IN ROAD WHEEL ARM (2).
5. TIGHTEN PLUG (4) TO 50-75 LB-FT (68-102 N·m) TORQUE. USE SOCKET WRENCH ATTACHMENT.
6. INSTALL SCREW (5) IN PLUG (4).



#### NOTE

**You may need to jack vehicle, to raise road arm, before positioning road wheel lifter.**

7. POSITION ROAD WHEEL LIFTER (WP 0291 00).
8. INSTALL FLOOR PLATES FOR THIRD AND FOURTH TORSION BARS (WP 0343 00).
9. INSTALL DRIVER'S REAR FLOOR PLATE FOR SECOND TORSION BAR, LEFT SIDE ONLY (WP 0343 00).
10. INSTALL POWER PLANT REAR ACCESS PANEL (WP 0309 00) FOR SECOND TORSION BAR, RIGHT SIDE ONLY.
11. INSTALL DRIVER'S FRONT FLOOR PLATE (WP 0343 00) FOR FIRST TORSION BAR, LEFT SIDE ONLY.
12. INSTALL POWER PLANT (WP 0106 00) FOR FIRST TORSION BAR, RIGHT SIDE ONLY.
13. IF REMOVED, INSTALL SHOCK ABSORBER (WP 0352 00).
14. INSTALL ROAD WHEEL (WP 0291 00).
15. UNBLOCK VEHICLE. See TM 9-2350-366-10-1.
16. ROAD TEST VEHICLE TO CHECK THAT TORSION BAR IS INSTALLED RIGHT.

**END OF TASK**

**REPLACE TORSION BAR ANCHOR**

**0288 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0288 00-1).
- Cleaning (page 0288 00-1).
- Installation (page 0288 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Socket wrench set (WP 0397 00, Item 71)
- Torque wrench (WP 0397 00, Item 84)

Equipment Condition

- Vehicle on level surface
- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Road wheel removed (WP 0290 00)
- Torsion bar removed (WP 0287 00)
- Power plant removed (required for 2nd right anchor only) (WP 0106 00)

Materials/Parts

- Cotter pin (2)
- Preformed packing (Required for 3rd, 4th, & 5th anchors only)

Personnel Required

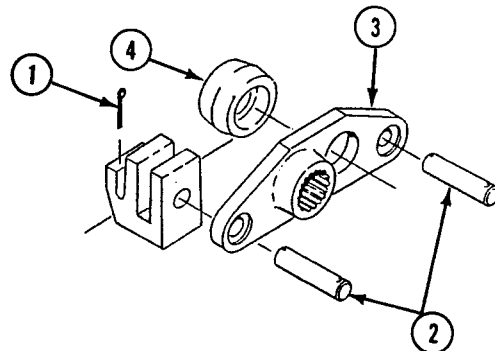
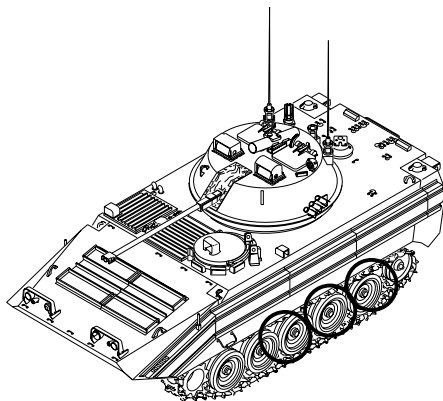
Unit Mechanic 63T10

**REMOVAL**

**NOTE**

**On all vehicles, preformed packings are located behind the 3rd, 4th, and 5th anchors only.**

1. REMOVE TWO COTTER PINS (1), PINS (2), ANCHOR (3), AND PREFORMED PACKING (4) (3RD, 4TH, AND 5TH ANCHORS ONLY) FROM LUGS ON HULL FLOOR. DISCARD COTTER PINS AND PREFORMED PACKING.



**CLEANING**

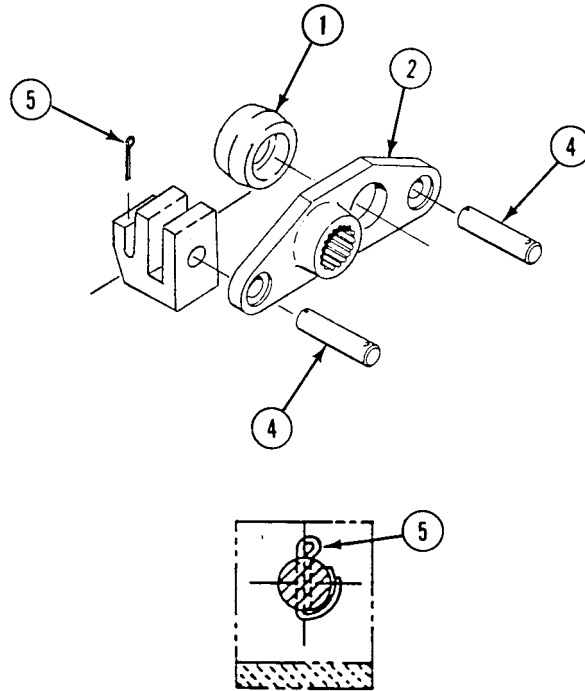
1. CHECK ANCHOR AND PINS FOR WEAR AND DAMAGE. REPLACE IF NEEDED.

## INSTALLATION

**NOTE**

**Cotter pins must not prevent full 360-degree rotation of anchor pins.**

1. INSTALL NEW PREFORMED PACKING (1) (3RD, 4TH, AND 5TH ANCHORS ONLY), ANCHOR (2), AND TWO PINS (4) IN LUGS ON HULL FLOOR. SECURE WITH TWO NEW COTTER PINS (5). BEND COTTER PINS AS SHOWN. ENSURE PINS (4) ARE FREE TO ROTATE THROUGH 360 DEGREES.



2. INSTALL TORSION BAR (WP 0287 00).
3. INSTALL POWER PLANT (IF REMOVED FOR 2ND RIGHT ANCHOR ONLY) (WP 0106 00).
4. INSTALL ROAD WHEEL (WP 0296 00).
5. UNBLOCK VEHICLE. See TM 9-2350-366-10-1.
6. START ENGINE. See TM 9-2350-366-10-1.
7. ROAD TEST VEHICLE TO CHECK THAT TORSION BAR ANCHOR IS INSTALLED PROPERLY.
8. STOP ENGINE. See TM 9-2350-366-10-1

**END OF TASK**

**REPLACE ROAD WHEEL SUPPORT ARM, BEARINGS, AND SEALS**

**0289 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0289 00-1).
- Installation (page 0289 00-4).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Remover and replacer (WP 0397 00, Item 41)
- Torque wrench (WP 0397 00, Item 78)
- Torque wrench (WP 0397 00, Item 41)

References

TM 9-2350-366-10-1

Materials/Parts

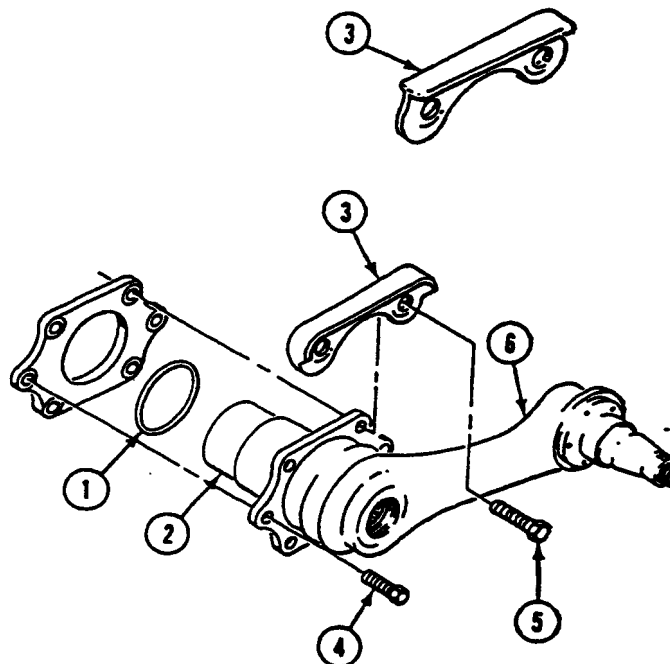
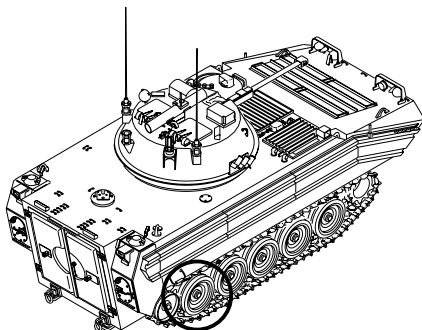
- Grease (WP 0399 00, Item 11)
- Sealing compound (WP 0399 00, Item 45)
- Inner seal
- Outer seal
- Retainer gasket
- Road arm housing bearing (2)
- Road arm housing packing
- Tablock washer (3)

Equipment Condition

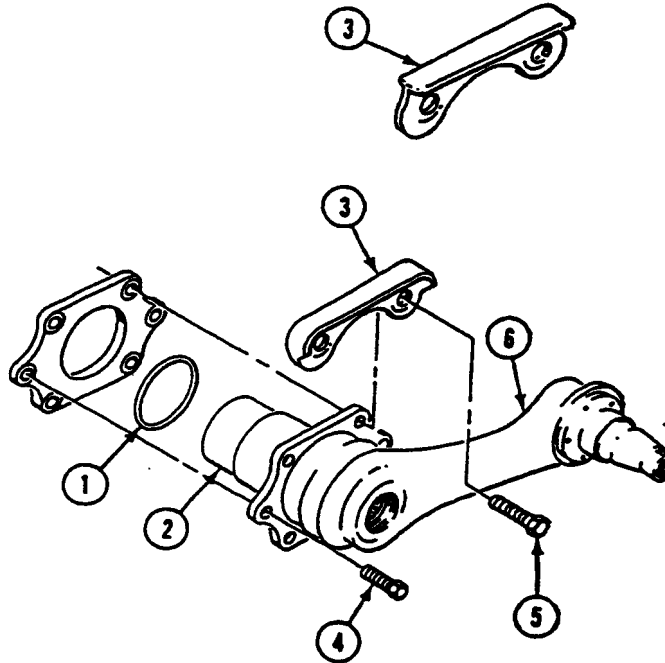
- Vehicle on level surface
- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Road wheel removed (WP 0291 00)
- Road wheel hub removed (WP 0290 00)
- Shock absorber removed from second, or fifth road wheel (WP 0352 00)
- Torsion bar removed (WP 0287 00)

**REMOVAL**

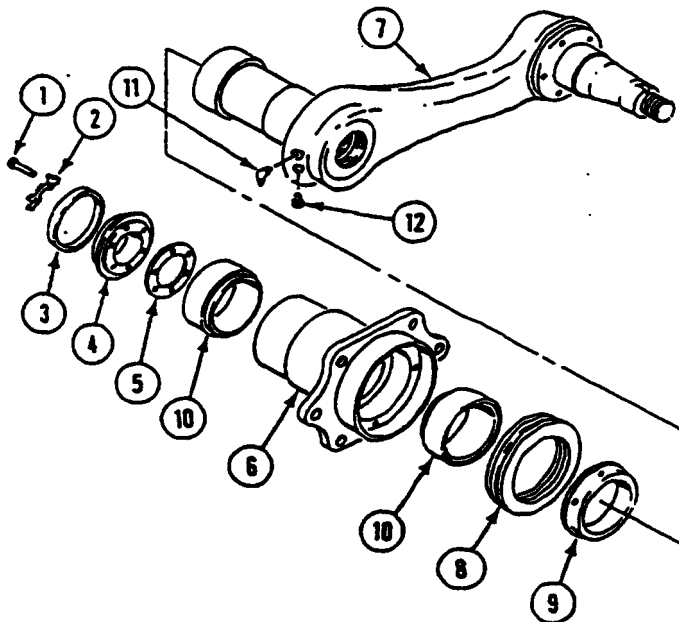
1. REMOVE SIX SCREWS (4), ROAD WHEEL ARM HOUSING (2) (NUMBER ONE AND TWO POSITIONS) AND PACKING (1).



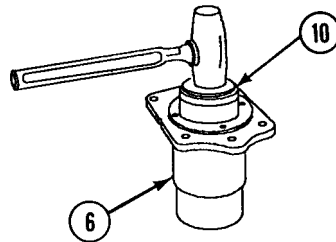
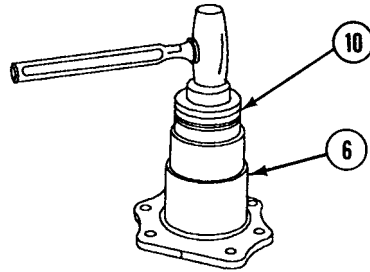
2. REMOVE TWO SCREWS (4), FOUR SCREWS (5), ROAD WHEEL SUPPORT ARM HOUSING (2), PACKING (1), AND GUARD (3) FROM HULL (NUMBER THREE POSITION).



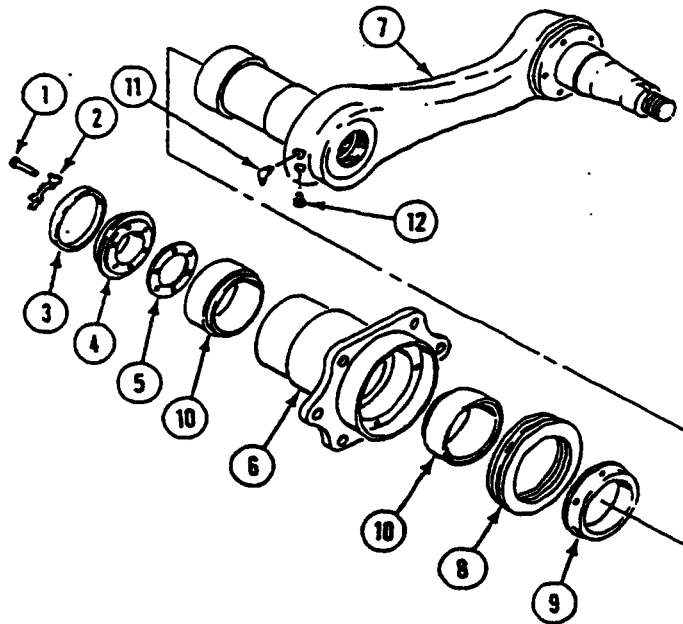
3. REMOVE TWO SCREWS (4), FOUR SCREWS (5), ROAD WHEEL SUPPORT ARM HOUSING (2), PACKING (1), AND GUARD (3) FROM HULL (NUMBER FOUR AND FIVE POSITIONS).
4. REMOVE SIX SCREWS (1), THREE WASHERS (2), SEAL (3), RETAINER (4), AND GASKET (5) FROM HOUSING (6). DISCARD WASHERS, SEAL AND GASKET.
5. REMOVE SUPPORT ARM (7), SEAL (8), AND SPACER (9) FROM HOUSING (6). DISCARD SEAL.



6. IF NEEDED, REMOVE TWO BEARINGS (10) FROM HOUSING (6). USE REMOVER AND REPLACER.

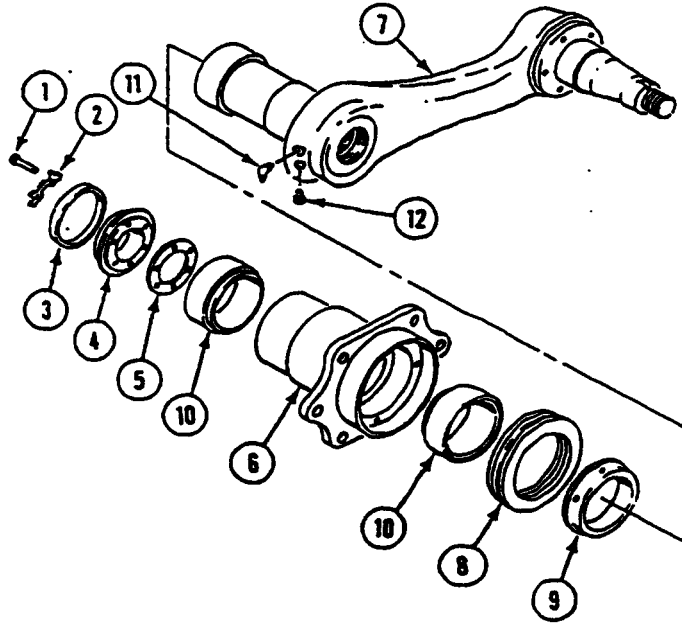


7. REMOVE LUBRICATION FITTING (11) AND RELIEF VALVE (12) FROM SUPPORT ARM (7).



**INSTALLATION**

1. IF REMOVED, INSTALL TWO BEARINGS (10) IN HOUSING (6). USE REPLACER.

**NOTE**

**Make sure shoulders on bearings point toward center of housing.**

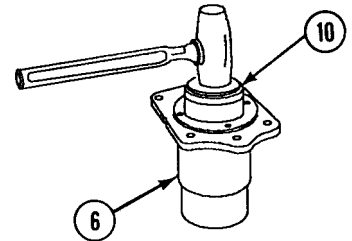
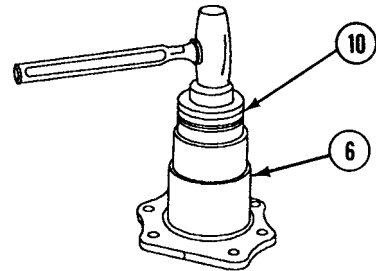
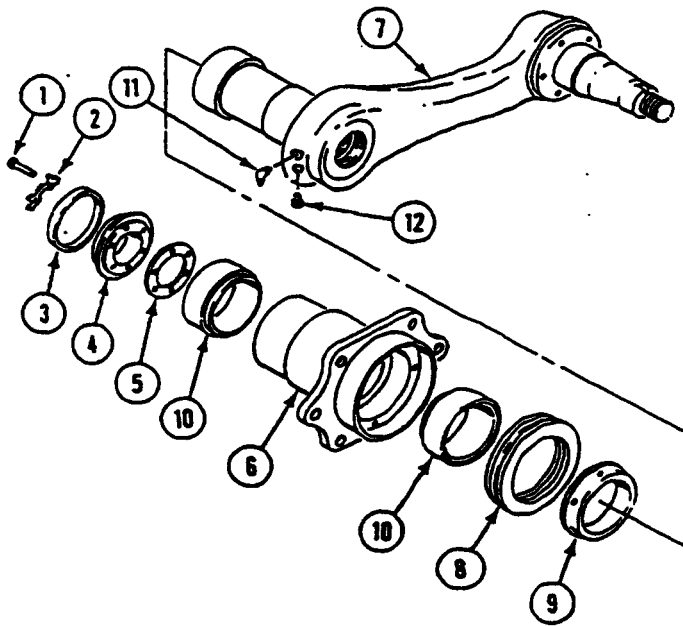
2. COAT THREADS OF RELIEF VALVE (12) AND LUBRICATION FITTING (11) WITH SEALING COMPOUND. INSTALL VALVE AND FITTING IN SUPPORT ARM (7).
3. PUT LIGHT COAT OF GREASE ON BEARING SURFACE OF SUPPORT ARM (7) AND CORK-RUBBER FACE OF NEW SEAL (8). PLACE SPACER (9) AND SEAL, WITH PINS FACING HOUSING, ON SHAFT OF SUPPORT ARM.
4. INSTALL SUPPORT ARM (7) IN HOUSING (6). ALIGN PINS ON SEAL (8) WITH HOLES IN HOUSING.
5. PUT LIGHT COAT OF SEALING COMPOUND ON OUTER SURFACE OF NEW SEAL (3).



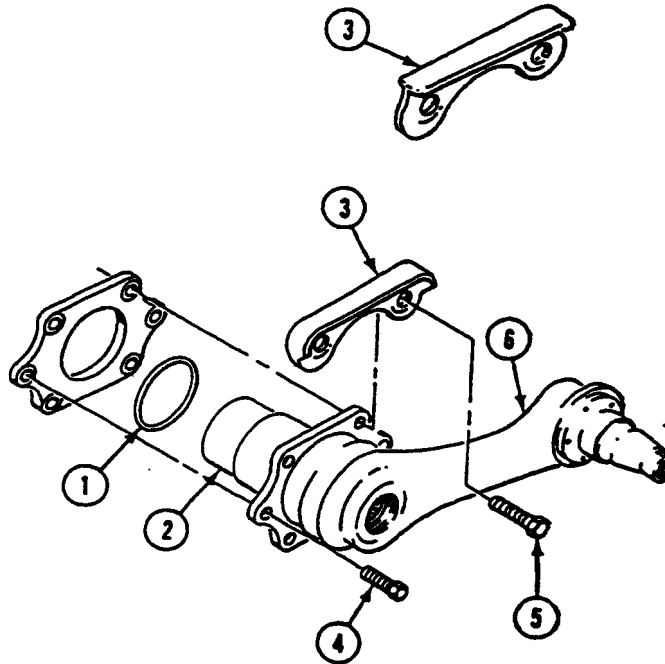
REPLACE ROAD WHEEL SUPPORT ARM, BEARINGS, AND SEALS — Continued

0289 00

6. INSTALL NEW GASKET (5), RETAINER (4), AND SEAL (3) IN REAR OF HOUSING (6). USE REPLACER. SECURE WITH THREE NEW WASHERS (2) AND SIX SCREWS (1). DO NOT TIGHTEN SCREWS AT THIS TIME.
7. FILL SUPPORT ARM HOUSING (6) WITH GREASE UNTIL GREASE APPEARS AROUND RETAINER (4).
8. TIGHTEN SIX SCREWS (1) TO 14–19 LB-FT (19–26 N·m) TORQUE. BEND TABS ON NEW WASHERS (2).



9. INSTALL NEW PACKING (1) ON HOUSING (2).



10. SECURE GUARD (3), PACKING (1), AND ROAD WHEEL SUPPORT ARM HOUSING (2) TO HULL (NUMBER FOUR AND FIVE POSITIONS) WITH FOUR SCREWS (4) AND TWO SCREWS (5). TIGHTEN SIX SCREWS TO 130-140 LB-FT (176-190 N·m) TORQUE.
11. SECURE GUARD (3), PACKING (1) AND ROAD WHEEL SUPPORT ARM HOUSING (2) TO HULL (NUMBER THREE POSITION) WITH FOUR SCREWS (4) AND TWO SCREWS (5). TIGHTEN SIX SCREWS TO 130-140 LB-FT (176-190 N·m) TORQUE.
12. SECURE ASSEMBLED ROAD WHEEL SUPPORT ARM (6) AND PACKING (1) TO HULL (NUMBER ONE AND TWO POSITIONS) WITH SIX SCREWS (5). TIGHTEN SCREWS TO 130-140 LB-FT (176-190 N·m) TORQUE.
13. INSTALL TORSION BAR (WP 0287 00).
14. IF REMOVED, INSTALL SHOCK ABSORBER (WP 0352 00).
15. INSTALL ROAD WHEEL HUB (WP 0290 00).
16. INSTALL ROAD WHEEL (WP 0291 00).
17. UNBLOCK VEHICLE. See TM 9-2350-366-10-1.
18. ROAD TEST VEHICLE TO CHECK THAT ARM IS INSTALLED RIGHT.

**END OF TASK**

**REPLACE ROAD WHEEL HUB**

**0290 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0290 00-1).
- Cleaning (page 0290 00-2).
- Installation (page 0290 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Replacer (WP 0397 00, Item 43)
- Ring spacer (WP 0397 00, Item 56)
- Torque wrench (WP 0397 00, Item 78)
- Torque wrench (WP 0397 00, Item 41)

References

- TM 9-2350-366-10-1
- TM 9-214

Materials/Parts

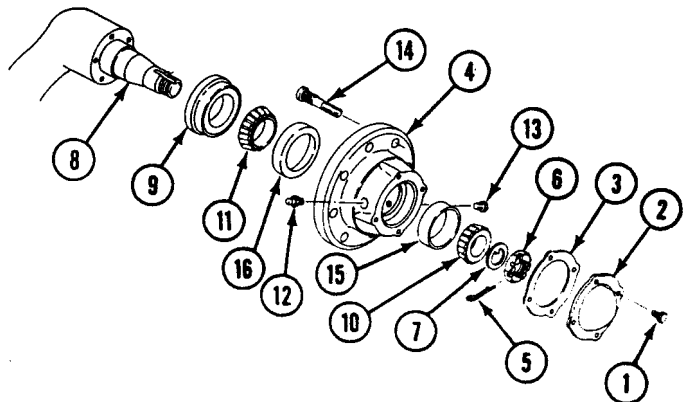
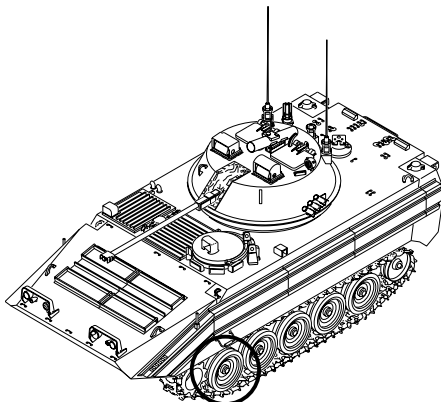
- Grease (WP 0399 00, Item 11)
- Sealing compound (WP 0399 00, Item 45)
- Cotter pin
- Hub cap gasket
- Hub to arm seal
- Inner bearing cup (as needed)
- Inner bearing (as needed)
- Outer bearing cup (as needed)
- Outer bearing (as needed)

Equipment Condition

- Vehicle on level surface
- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Road wheel removed (WP 0291 00)

**REMOVAL**

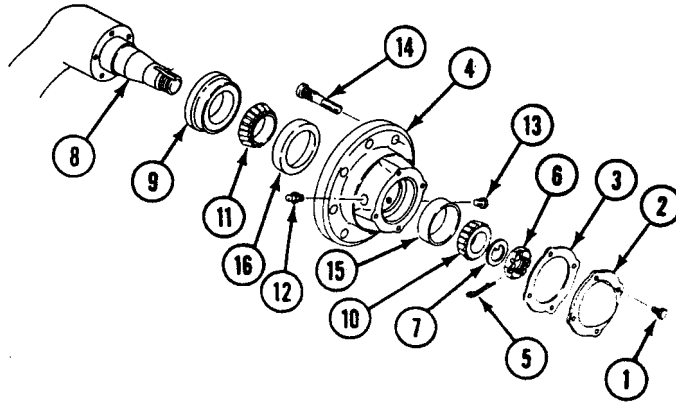
1. REMOVE FOUR SCREWS (1), HUB CAP (2), AND GASKET (3) FROM ROAD WHEEL HUB (4). DISCARD GASKET.



**REPLACE ROAD WHEEL HUB — Continued**

0290 00

2. REMOVE COTTER PIN (5), NUT (6), WASHER (7), AND HUB (4) FROM ROAD WHEEL SUPPORT ARM (8). DISCARD COTTER PIN.
3. REMOVE SEAL (9), OUTER BEARING (10), AND INNER BEARING (11) FROM HUB (4). DISCARD SEAL.
4. REMOVE GREASE FITTING (12) AND RELIEF VALVE (13) FROM HUB (4).
5. IF DAMAGED, REMOVE BOLT(S) (14) FROM HUB (4). DISCARD BOLT(S).
6. IF DAMAGED, REMOVE BEARING CUPS (15) AND (16) FROM HUB (4). DISCARD CUPS.

**CLEANING****CAUTION**

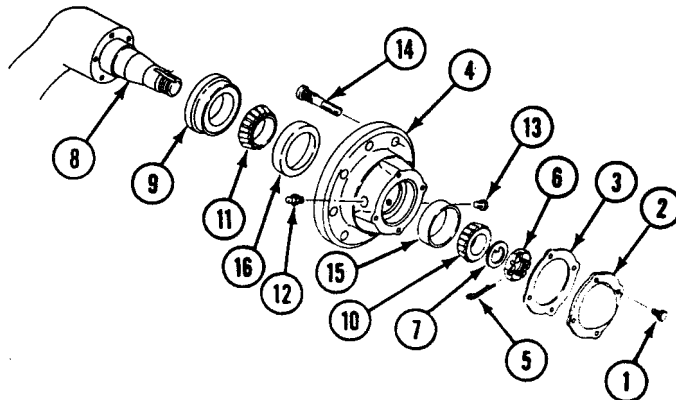
**Bearings must be replaced as assemblies. Do not mix cups and bearings.**

1. CLEAN AND INSPECT BEARINGS IN ACCORDANCE WITH TM 9-214. REPLACE BAD BEARINGS AND CUPS.

**INSTALLATION****CAUTION**

**Bearings must be replaced as assemblies. Do not mix cups and bearings.**

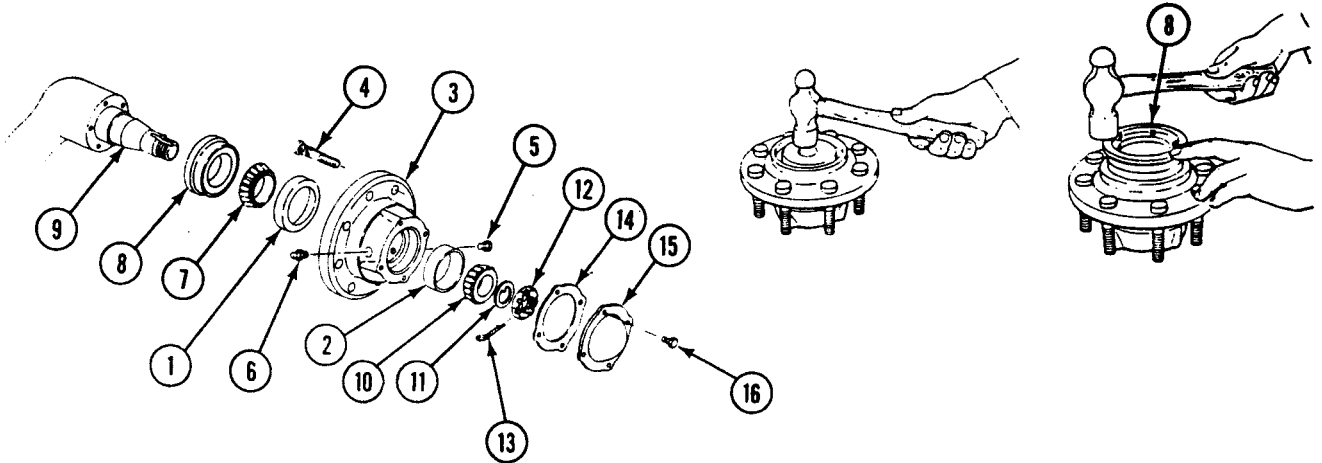
1. IF REMOVED, INSTALL NEW BEARING CUPS (16) AND (15) IN HUB (4). USE REPLACER.



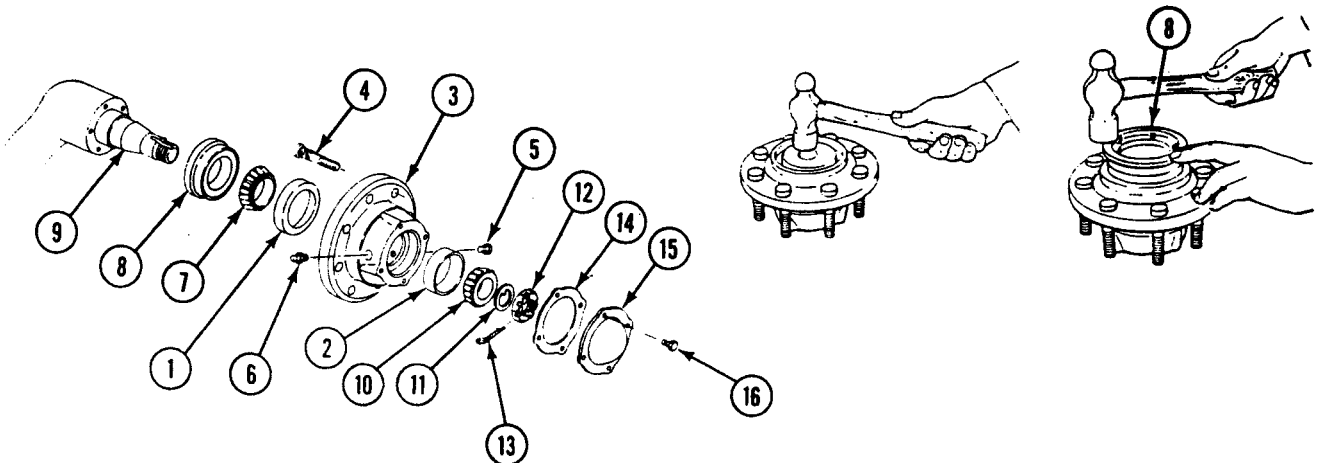
REPLACE ROAD WHEEL HUB — Continued

0290 00

2. IF REMOVED, INSTALL NEW BOLTS (14) IN ROAD WHEEL HUB (4).
3. APPLY A LIGHT COAT OF SEALING COMPOUND TO THREADS OF RELIEF VALVE (13) AND LUBRICATION FITTING (12). INSTALL VALVE AND FITTING IN HUB (4).
4. PACK INNER BEARING (11) WITH GREASE. INSTALL BEARING IN REAR OF HUB (4).
5. APPLY A LIGHT COAT OF SEALING COMPOUND TO EXTERNAL SURFACE OF NEW SEAL (9).
6. INSTALL NEW SEAL (9) IN HUB (4) USING REPLACER.



7. PLACE HUB (4) ON ROAD WHEEL SUPPORT ARM (8). COMPLETELY PACK CAVITY IN HUB WITH GREASE.
8. PACK OUTER BEARING (10) WITH GREASE. INSTALL IN HUB (4).
9. INSTALL WASHER (11) AND NUT (12) ON SUPPORT ARM (9). TIGHTEN NUT TO ADJUST BEARING AS FOLLOWS:



- a. TIGHTEN NUT (12) TO 140–150 LB-FT (190–203 N·m) TORQUE.
- b. Back off nut (12) until there is no torque.
- c. TIGHTEN NUT (12) TO 70–75 LB-FT (95–102 N·m) TORQUE.
- d. Back off nut to align nearest cotter pin hole in nut with cotter pin in support arm (9).

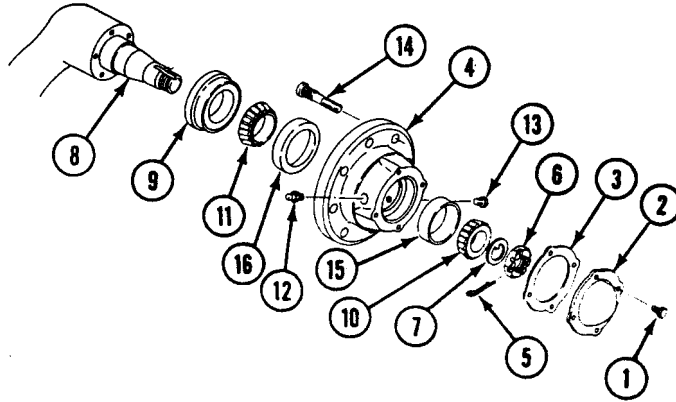
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**REPLACE ROAD WHEEL HUB — Continued**

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0290 00

10. INSTALL NEW COTTER PIN (5) IN SUPPORT ARM (8).
11. INSTALL NEW GASKET (3), HUB CAP (2), AND FOUR SCREWS (1) IN HUB (4).
12. FILL HUB (4) WITH GREASE. See TM 9-2350-366-10-1.



13. INSTALL ROAD WHEEL (WP 0291 00).
14. UNBLOCK VEHICLE. See TM 9-2350-366-10-1.
15. ROAD TEST VEHICLE TO CHECK THAT HUB IS INSTALLED RIGHT.

**END OF TASK**

**REPLACE ROAD WHEEL**

**0291 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0291 00-1).
- Cleaning (page 0291 00-3).
- Installation (page 0291 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

References

- TM 9-2350-366-10-1
- TM 9-2350-200-24

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Road wheel lifter (WP 0397 00, Item 28)
- Torque wrench (WP 0397 00, Item 83)

Equipment Condition

- Vehicle on level surface
- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)

Materials/Parts

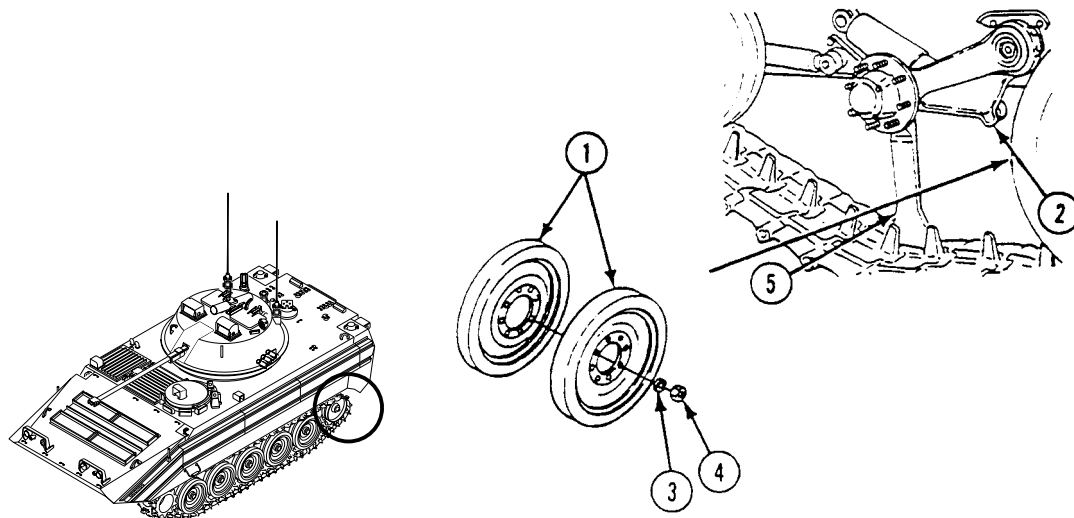
Locknut, per wheel (8)

Personnel Required

- Unit Mechanic 63T10
- Helper (H)

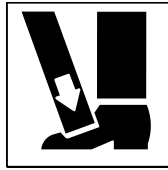
**REMOVAL**

1. PLACE LIFTER (5) UNDER ROAD WHEEL ARM (2). KEEP LOWER TIPS OF LIFTER IN TRACK LINK JUST REARWARD OF WHEEL BEING REMOVED.
2. LOOSEN EIGHT LOCKNUTS (4) ON ROAD WHEEL (1). DO NOT REMOVE NUTS.



3. UNBLOCK VEHICLE. See TM 9-2350-366-10-1.

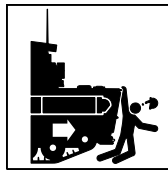
**WARNING**



**If road wheel lifter slips while lowering road arm, it could injure you. Stand clear before you lower road arm.**

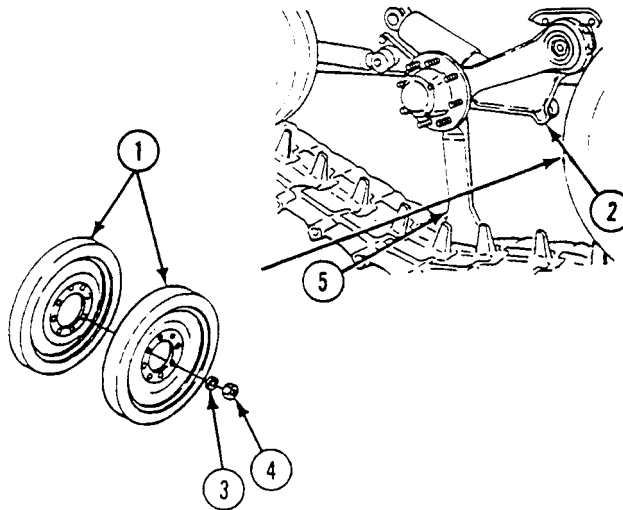
4. START ENGINE. See TM 9-2350-366-10-1. PLACE GEAR SELECTOR IN R. SLOWLY BACK VEHICLE UNTIL LIFTER (5) IS VERTICAL AND ROAD WHEEL (1) CLEARS GROUND.

**WARNING**



**Failure to set the parking brake and block the road wheels can allow the vehicle to move and could result in injury or death. Always set the parking brake and block road wheels before working on the vehicle.**

5. BLOCK VEHICLE. See TM 9-2350-366-10-1.
6. REMOVE EIGHT LOCKNUTS (4) AND WASHERS (3) FROM ROAD WHEEL (1). DISCARD LOCKNUTS.
7. LIFT TRACK WITH BAR UNTIL TRACK CLEARS ROAD WHEEL (1). REMOVE TWO ROAD WHEELS.



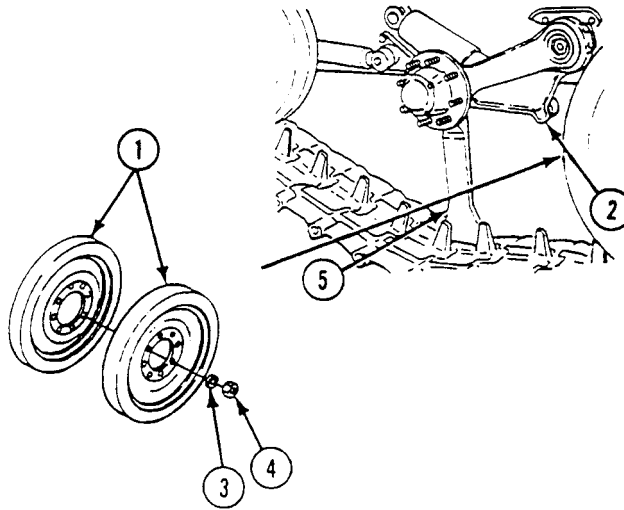


**CLEANING**

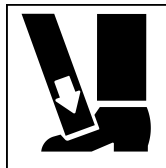
1. CHECK ROAD WHEEL TIRES. See TM 9-2530-200-24.
  - a. Replace wheel if rubber has separated from it.
  - b. Replace wheel if damaged tire causes noise or vibration when vehicle is moving.

**INSTALLATION**

1. LIFT TRACK ASSEMBLY WITH BAR. PLACE TWO ROAD WHEELS (1) ON ROAD WHEEL ARM (2). SECURE LOOSELY WITH EIGHT WASHERS (3) AND NEW LOCKNUTS (4).

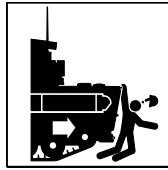


2. UNBLOCK VEHICLE. See TM 9-2350-366-10-1.

**WARNING**

**If road wheel lifter slips while lowering road arm, it could injure you. Stand clear before you lower road arm.**

3. START ENGINE. See TM 9-2350-366-1. PLACE RANGE SELECTOR IN RANGE 1. SLOWLY DRIVE VEHICLE FORWARD OFF LIFTER (5). REMOVE LIFTER.

**WARNING**

**Failure to set the parking brake and block the road wheels can allow the vehicle to move and could result in injury or death. Always set the parking brake and block road wheels before working on the vehicle.**

4. BLOCK VEHICLE. See TM 9-2350-366-10-1.
5. TIGHTEN EIGHT NUTS (4) TO 150–170 LB-FT (203–230 N·m) TORQUE.
6. ADJUST TRACK TENSION. See TM 9-2350-366-10-1.
7. UNBLOCK VEHICLE. See TM 9-2350-366-10-1.
8. ROAD TEST VEHICLE TO CHECK THAT ROAD WHEEL IS INSTALLED RIGHT.

**END OF TASK**

**REPLACE IDLER WHEEL**

**0292 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0292 00-1).  
 Installation (page 0292 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Torque wrench (WP 0397 00, Item 83)

Equipment Condition

Vehicle on level surface  
 Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)

Materials/Parts

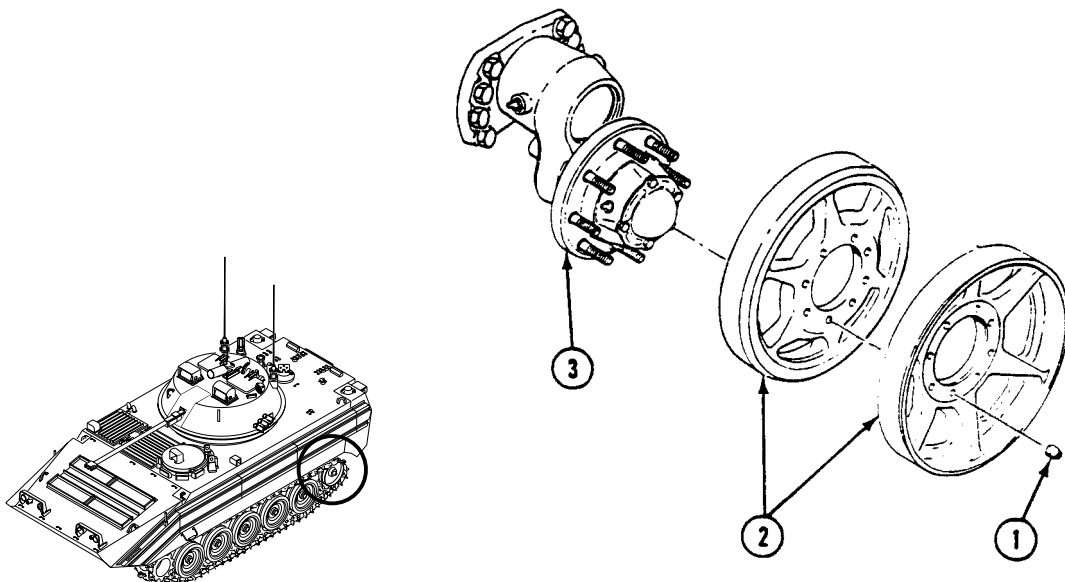
Locknut per wheel (8)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. LOOSEN IDLER WHEEL NUTS (1).
2. DISCONNECT TRACK (WP 0298 00).
3. REMOVE TRACK FROM IDLER WHEELS (2).
4. REMOVE EIGHT LOCKNUTS (1) AND TWO IDLER WHEELS (2) FROM IDLER WHEEL HUB (3). DISCARD LOCKNUTS.



## INSTALLATION

**NOTE**

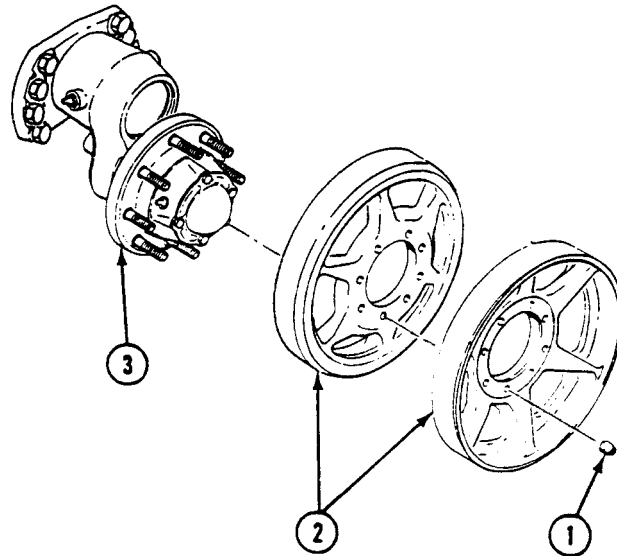
Inboard and outboard idler wheels are different. Do not mix them up. Inboard wheel (marked 11669373) is 3-1/4 inches (83 mm) wide. Outboard wheel (marked 10907799) is 3-1/8 inches (79 mm) wide.

1. PLACE TWO IDLER WHEELS (2) ON IDLER WHEEL HUB (3).

**NOTE**

Install inboard and outboard idler wheel in the right order. Make sure spokes do not line up.

2. SECURE TWO WHEELS (2) TO HUB (3) WITH EIGHT NEW NUTS (1). TIGHTEN NUTS TO 150–170 LB-FT (203–230 N·m) TORQUE.



3. INSTALL TRACK OVER IDLER WHEELS.
4. CONNECT TRACK AND ADJUST TENSION (WP 0298 00).
5. UNBLOCK VEHICLE. See TM 9-2350-366-10-1.
6. ROAD TEST VEHICLE TO CHECK THAT IDLER WHEEL IS INSTALLED RIGHT.

**END OF TASK**

CHAPTER 25

UNIT MAINTENANCE INSTRUCTIONS  
FOR TRACK IDLERS, DRIVE SPROCKETS, AND TRACKS

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**WORK PACKAGE INDEX**

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| <u>Title</u>                                     | <u>Sequence No.</u> |
|--|---------------------|
| REPLACE IDLER WHEEL ARM ASSEMBLY.....            | 0293 00             |
| REPLACE IDLER WHEEL ARM BEARINGS AND SEALS.....  | 0294 00             |
| REPLACE TRACK TENSION ADJUSTER AND MOUNT.....    | 0295 00             |
| REPLACE DRIVE SPROCKET AND CARRIER ASSEMBLY..... | 0296 00             |
| REPAIR DRIVE SPROCKET CARRIER ASSEMBLY.....      | 0297 00             |
| REPLACE TRACK.....                               | 0298 00             |
| REPLACE TRACK SHOE ASSEMBLY.....                 | 0299 00             |
| REPLACE TRACK SHOE PAD.....                      | 0300 00             |



**REPLACE IDLER WHEEL ARM ASSEMBLY**

**0293 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0293 00-1).
- Installation (page 0293 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Torque wrench (WP 0397 00, Item 84)

Equipment Condition

- Vehicle on level surface
- Engine stopped (TM 9-2350-366-10-1)
- Track disconnected (TM 9-2350-366-10-1)
- Idler wheel removed (WP 0292 00)
- Idler wheel hub removed (WP 0290 00)
- Track tension adjuster disconnected from idler wheel arm (WP 0295 00)

Materials/Parts

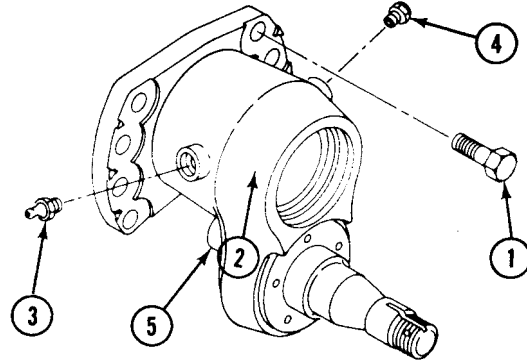
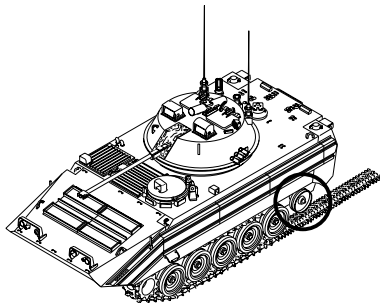
- Grease (WP 0399 00, Item 11)
- Sealing compound (WP 0399 00, Item 49)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. REMOVE EIGHT SCREWS (1) AND IDLER WHEEL ARM (2) FROM HULL.



2. REMOVE GREASE FITTING (3) AND RELIEF VALVE (4) FROM IDLER ARM (2)

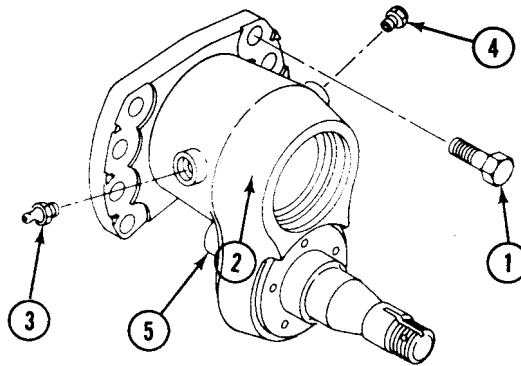
**INSTALLATION**

1. APPLY LIGHT COAT OF SEALING COMPOUND ON THREADS OF RELIEF VALVE (4) AND GREASE FITTING (3).

**NOTE**

**Install grease fitting on the forward side of idler arm.**

2. INSTALL RELIEF VALVE (4) AND GREASE FITTING (3) IN IDLER ARM (2).
3. PLACE TRACK TENSION ADJUSTER (5) ON SHAFT ON REAR OF IDLER ARM (2). ALIGN IDLER ARM WITH HOLES ON HULL. SECURE WITH EIGHT SCREWS (1). TIGHTEN SCREWS TO 315–325 LB-FT (427–441 N·m) TORQUE.
4. FILL IDLER ARM (2) WITH GREASE. See TM 9-2350-366-10-1.



5. CONNECT TRACK TENSION ADJUSTER TO IDLER ARM (WP 0295 00).
6. INSTALL IDLER WHEEL HUB (WP 0290 00).
7. INSTALL IDLER WHEEL (WP 0291 00).
8. CONNECT TRACK AND ADJUST TENSION. See TM 9-2350-366-10-1.
9. ROAD TEST VEHICLE TO CHECK THAT IDLER WHEEL ARM IS INSTALLED RIGHT.

**END OF TASK**



**REPLACE IDLER WHEEL ARM BEARINGS AND SEALS**

**0294 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0294 00-1).
- Cleaning (page 0294 00-2).
- Installation (page 0294 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Replacer (WP 0397 00, Item 43)
- Torque wrench (WP 0397 00, Item 83)

References

- TM 9-2350-366-10-1
- TM 9-214

Materials/Parts

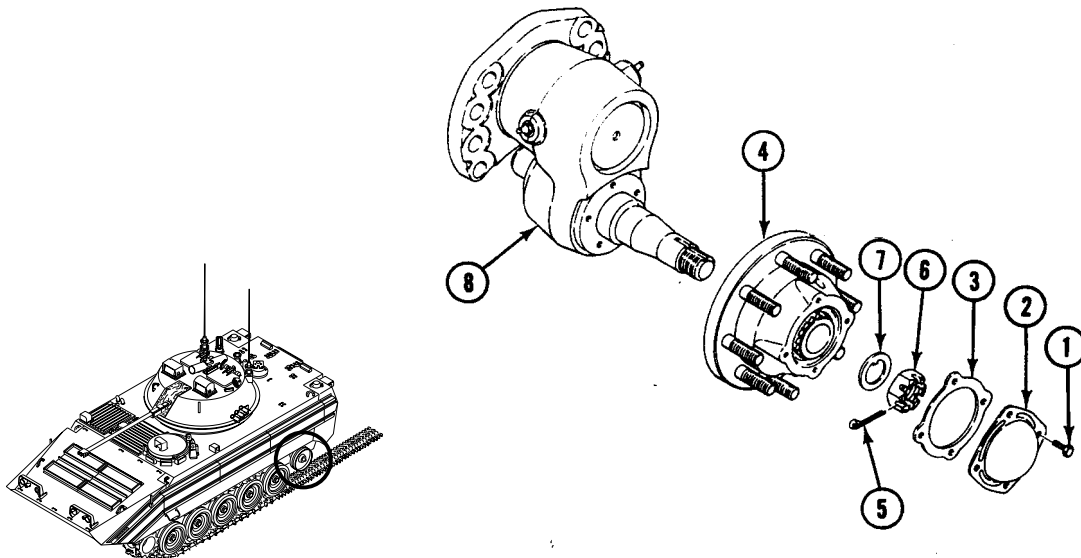
- Grease (WP 0399 00, Item 11)
- Sealing compound (WP 0399 00, Item 45)
- Sealing compound (WP 0399 00, Item 55)
- Cotter Pin
- Gasket
- Seal

Equipment Condition

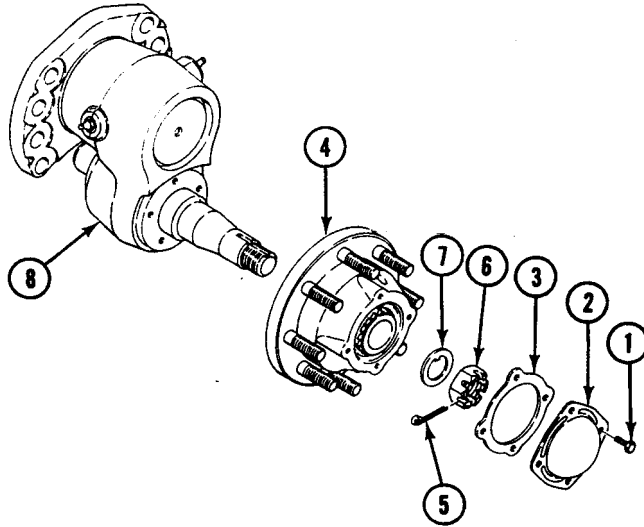
- Vehicle on level surface
- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Track disconnected (TM 9-2350-366-10-1)
- Idler wheel removed (WP 0292 00)

**REMOVAL**

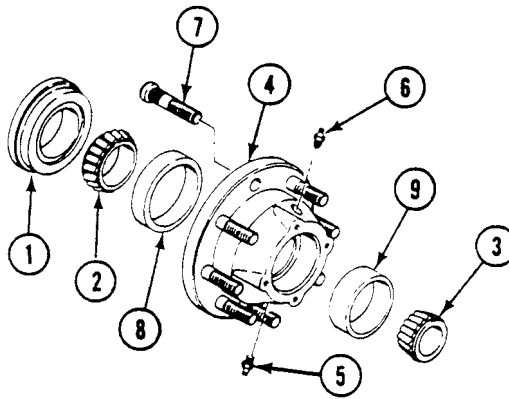
1. REMOVE FOUR SCREWS (1), HUB CAP (2), AND GASKET (3) FROM IDLER WHEEL HUB (4). DISCARD GASKET.



2. REMOVE COTTER PIN (5), NUT (6), WASHER (4), AND HUB (4) FROM IDLER WHEEL ARM (8). DISCARD COTTER PIN.



3. REMOVE SEAL (1), INNER BEARING (2), AND OUTER BEARING (3) FROM HUB (4). DISCARD SEAL.
4. REMOVE GREASE FITTING (5) AND RELIEF VALVE (6) FROM HUB (4).
5. IF DAMAGED, REMOVE BOLT(S) (7) FROM HUB (4). DISCARD DAMAGED BOLT(S).
6. IF DAMAGED, REMOVE BEARING CUPS (8) AND (9) FROM HUB (4).

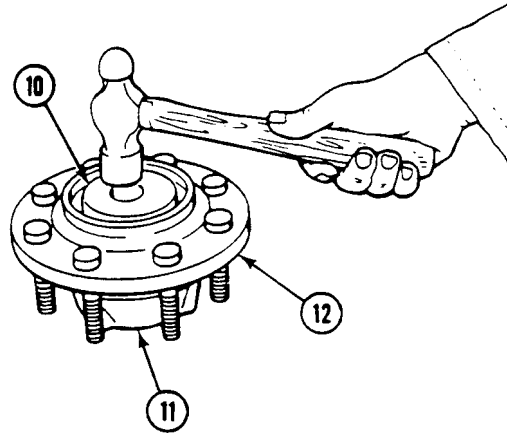


**CLEANING**

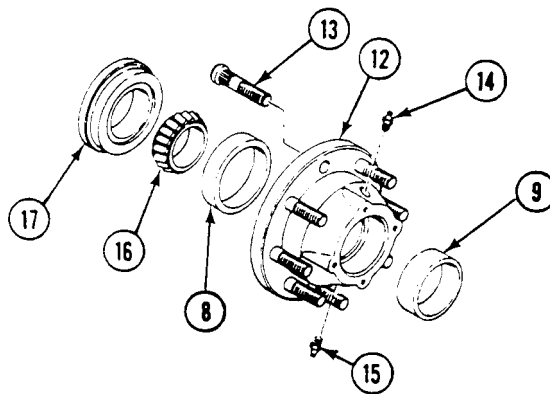
1. CLEAN AND CHECK BEARINGS. REPLACE BAD BEARINGS AND CUPS.

**INSTALLATION**

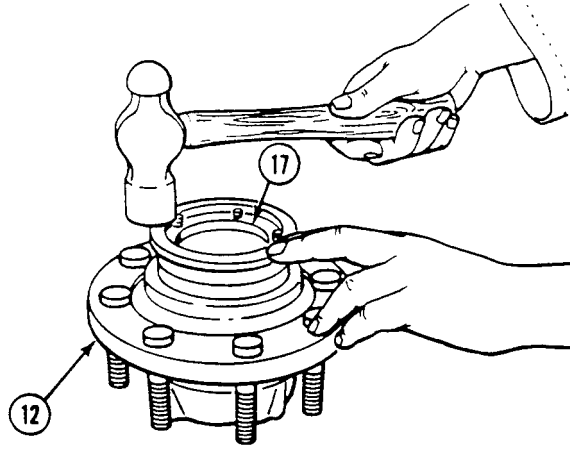
1. IF REMOVED, INSTALL BEARING CUPS (10) AND (11) IN HUB (12). USE REPLACER.



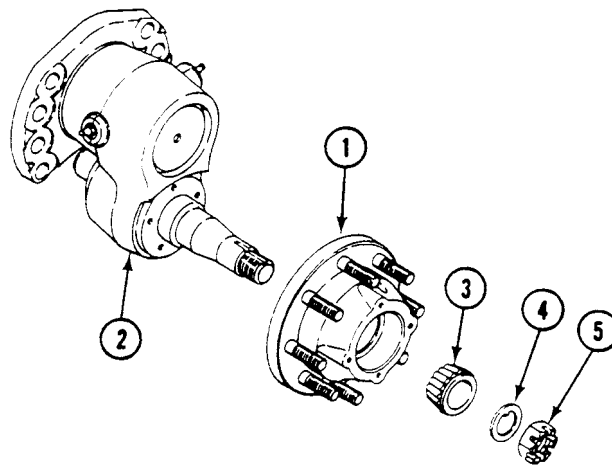
2. IF REMOVED, INSTALL NEW BOLT(S) (13) IN HUB (12).
3. APPLY LIGHT COAT OF SEALING COMPOUND TO THREADS OF RELIEF VALVE (14) AND GREASE FITTING (15). INSTALL VALVE AND FITTING IN HUB (12).
4. PACK INNER BEARING (16) WITH GREASE. INSTALL BEARING IN REAR OF HUB (12).
5. APPLY LIGHT COAT OF SEALING COMPOUND TO OUTER SURFACE OF NEW SEAL (17).



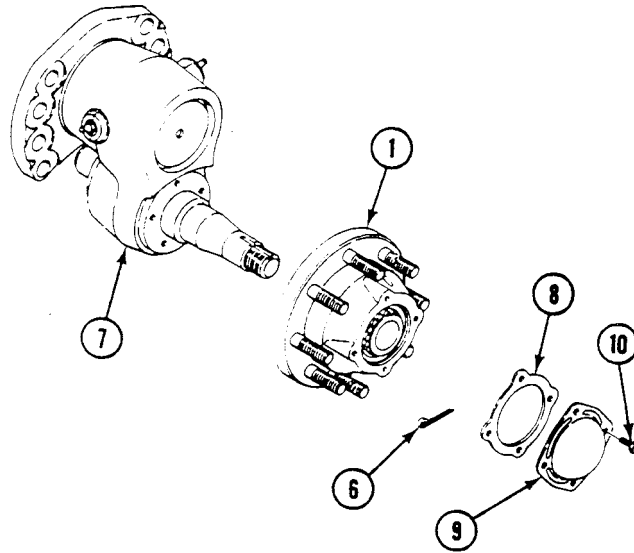
6. INSTALL SEAL (17) IN HUB (12). USE REPLACER.



7. PLACE HUB (1) ON IDLER WHEEL ARM (2). COMPLETELY PACK CAVITY IN HUB WITH GREASE.
8. PACK OUTER BEARING (3) WITH GREASE. INSTALL BEARING IN HUB (1).
9. INSTALL WASHER (4) AND NUT (5) ON ARM (2). TIGHTEN NUT TO ADJUST BEARINGS AS FOLLOWS:
- a. TIGHTEN NUT (5) TO 140–150 LB-FT (190–203 N·m) TORQUE.
  - b. Back off nut (5) until there is no torque.
  - c. TIGHTEN NUT (5) TO 70–75 LB-FT (95–102 N·m) TORQUE.
  - d. Back off nut (5) to align nearest cotter pin hole in nut with cotter pin hole in arm (2).



10. INSTALL NEW COTTER PIN (6) IN ARM (7).



11. INSTALL NEW GASKET (8), HUB CAP (9), AND FOUR SCREWS (10) IN HUB (1).
12. FILL HUB (1) WITH GREASE (WP 0104 00).
13. INSTALL IDLER WHEEL (WP 0292 00).
14. CONNECT TRACK AND ADJUST TENSION. See TM 9-2350-366-10-1.
15. UNBLOCK VEHICLE. See TM 9-2350-366-10-1.
16. ROAD TEST VEHICLE TO CHECK THAT IDLER WHEEL HUB IS INSTALLED RIGHT.

**END OF TASK**



**REPLACE TRACK TENSION ADJUSTER AND MOUNT**

**0295 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0295 00-1).  
 Installation (page 0295 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Torque wrench adapter (WP 0397 00, Item 4)  
 Torque wrench (WP 0397 00, Item 83)

Equipment Condition

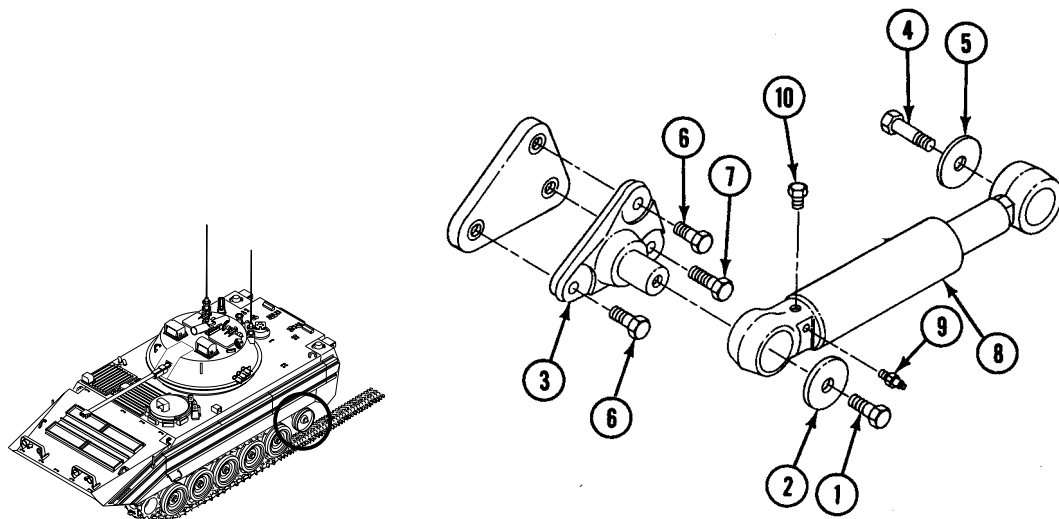
Vehicle on level surface  
 Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Track disconnected (TM 9-2350-366-10-1)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. REMOVE SCREW (1) AND WASHER (2) FROM MOUNT (3).
2. REMOVE SCREW (4) AND WASHER (5) FROM SHAFT ON IDLER ARM.
3. REMOVE TWO SCREWS (6) FROM MOUNT (3). LOOSEN SCREW (7). ROTATE MOUNT AND REMOVE SCREW (7).
4. PULL TRACK ADJUSTER (8) DOWN. REMOVE MOUNT (3) FROM ADJUSTER.
5. REMOVE ADJUSTER (8) FROM SHAFT ON IDLER ARM.
6. REMOVE GREASE FITTING (9) AND RELIEF VALVE (10) FROM ADJUSTER (8).

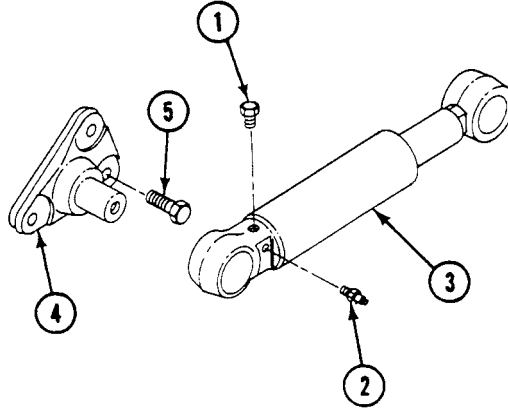


## INSTALLATION

## NOTE

Grease fitting and relief valve of track tension adjuster should be toward front of carrier. Make sure grease fitting is pointing out.

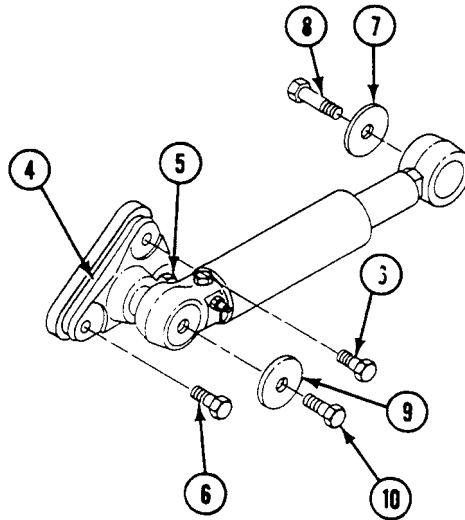
1. INSTALL RELIEF VALVE (1) AND GREASE FITTING (2) IN TRACK TENSION ADJUSTER (3).



2. PLACE TRACK ADJUSTER (3) ON SHAFT OF IDLER ARM.
3. INSTALL MOUNT (4) IN FRONT OF ADJUSTER (3). RAISE ADJUSTER AND MOUNT. ALIGN HOLE IN MOUNT WITH HOLE IN HULL FOR SCREW (5).
4. INSTALL SCREW (5) IN MOUNT (4). TIGHTEN UNTIL SNUG.



5. ROTATE MOUNT (4). INSTALL TWO SCREWS (3)(6).



### NOTE

**When using torque wrench with torque wrench adapter, torque value must be corrected.**

6. TIGHTEN SCREW (5) AND TWO SCREWS (3)(6) TO 130–140 LB-FT (176–190 N·m) TORQUE.
7. INSTALL WASHER (7) AND SCREW (8) IN SHAFT IDLER ARM. TIGHTEN SCREW TO 130–140 LB-FT (176–190 N·m) TORQUE.
8. INSTALL WASHER (9) AND SCREW (10) ON MOUNT (4). TIGHTEN SCREW TO 130–140 LB-FT (176–190 N·m) TORQUE.
9. CONNECT TRACK. See TM 9-2350-366-10-1.
10. UNBLOCK VEHICLE. See TM 9-2350-366-10-1.
11. ROAD TEST VEHICLE TO CHECK THAT ADJUSTER IS INSTALLED RIGHT.

**END OF TASK**



**REPLACE DRIVE SPROCKET AND CARRIER ASSEMBLY**

**0296 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0296 00-1).
- Installation (page 0296 00-1).

**INITIAL SETUP:**

Maintenance Level  
Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Socket wrench set (WP 0397 00, Item 71)
- Torque wrench (WP 0397 00, Item 84)

Equipment Condition

- Vehicle on level surface
- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Track disconnected (TM 9-2350-366-10-1)

Materials/Parts

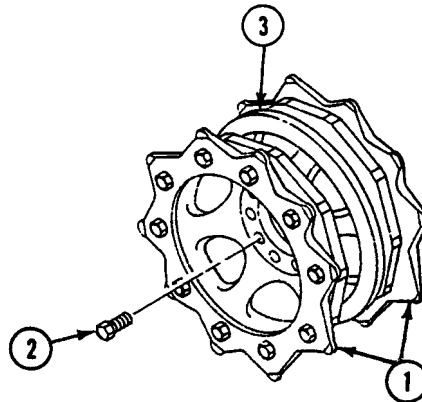
- Self-locking screw (10)

Personnel Required

- Unit Mechanic 63T10

**REMOVAL**

1. REMOVE 10 SELF-LOCKING SCREWS (2), 2 DRIVE SPROCKETS (1), AND CARRIER ASSEMBLY (3) FROM FINAL DRIVE. DISCARD SELF-LOCKING SCREWS.



**INSTALLATION**

1. PLACE TWO DRIVE SPROCKETS (1) AND CARRIER ASSEMBLY (3) ON FINAL DRIVE. SECURE WITH 10 NEW SELF-LOCKING SCREWS (2). TIGHTEN SCREWS TO 170–190 LB-FT (231–258 N·m) TORQUE.
2. CONNECT TRACK AND ADJUST TENSION. See TM 9-2350-366-10-1.
3. UNBLOCK VEHICLE. See TM 9-2350-366-10-1.
4. ROAD TEST VEHICLE TO CHECK THAT DRIVE SPROCKET AND CARRIER ASSEMBLY ARE INSTALLED RIGHT.

**END OF TASK**



**REPAIR DRIVE SPROCKET CARRIER ASSEMBLY**

**0297 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0297 00-1).  
 Installation (page 0297 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2650-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Torque wrench (WP 0397 00, Item 83)

Equipment Condition

Vehicle on level surface  
 Engine stopped (TM 9-2650-366-10-1)  
 Vehicle blocked (TM 9-TM 9-2650-366-10-1)  
 Track disconnected (TM 9-2650-366-10-1)  
 Drive sprocket and carrier assembly removed  
 (WP 0296 00)

Materials/Parts

Self-locking bolt (20)

Personnel Required

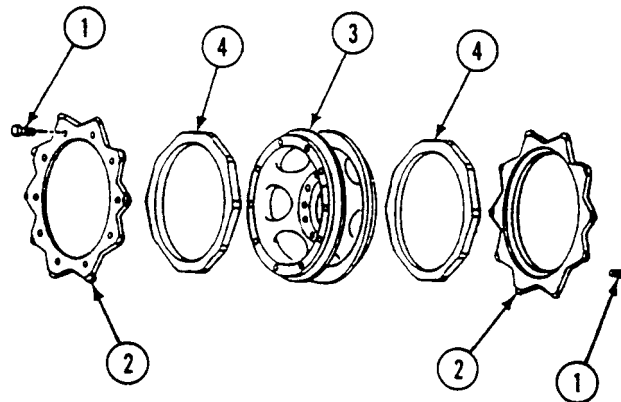
Unit Mechanic 63T10

**REMOVAL**

**NOTE**

The following maintenance procedure applies to one sprocket and carrier assembly only.

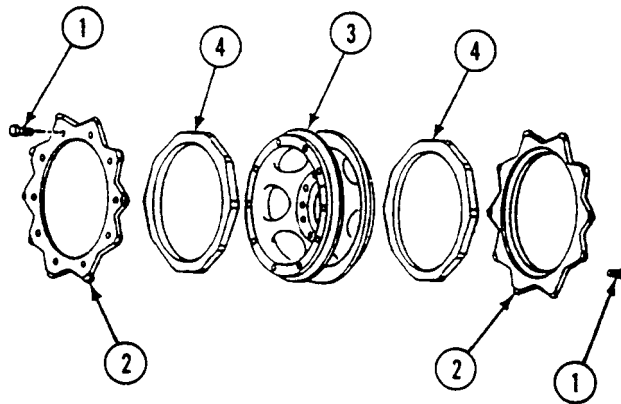
1. REMOVE 20 SELF-LOCKING BOLTS (1) AND 2 SPROCKETS (2) FROM CARRIER ASSEMBLY (3). DISCARD BOLTS.



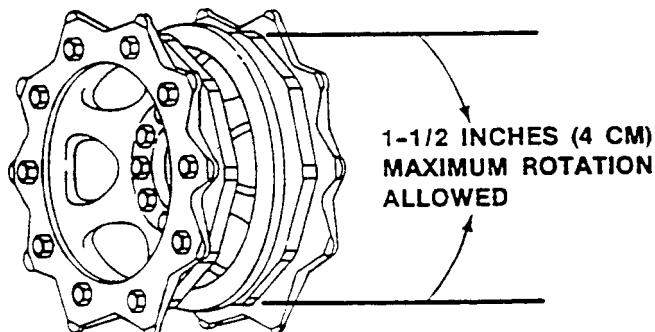
2. REMOVE TWO RUBBER CUSHIONS (4) FROM CARRIER ASSEMBLY (3).
3. IF NEEDED, REPEAT STEPS Steps 1 - 2 FOR OTHER SPROCKET CARRIER ASSEMBLY AND CUSHIONS.

**INSTALLATION**

1. PLACE TWO CUSHIONS (4) ON CARRIER ASSEMBLY (3). CENTER SHORT FLAT AREAS BETWEEN MOUNTING HOLES IN CARRIER ASSEMBLY RIM. PRESS ON CUSHION UNTIL FIRMLY SEATED AGAINST FLANGE OF CARRIER ASSEMBLY.
2. PLACE TWO SPROCKETS (2) ON CARRIER ASSEMBLY (3). SECURE WITH 20 NEW SELF-LOCKING BOLTS (1). TIGHTEN BOLTS TO 110–115 LB-FT (149–156 N·m) TORQUE.
3. MARK SPROCKETS (2) AND CUSHIONS (4) FOR ROTATION CHECK AFTER ROAD TEST.



4. INSTALL DRIVE SPROCKET AND CARRIER ASSEMBLY (WP 0255 00).
5. CONNECT TRACK AND ADJUST TENSION. See TM 9-2350-366-10-1.
6. UNBLOCK VEHICLE. See TM 9-2350-366-10-1.
7. ROAD TEST VEHICLE TO CHECK THAT DRIVE SPROCKET AND CUSHION ARE INSTALLED RIGHT (WP 0398 00).
8. AFTER ROAD TEST, CHECK ROTATION OF CUSHION WITH RESPECT TO SPROCKETS. MEASURE FROM THE OUTER EDGE OF THE CUSHION. REPLACE CUSHION THAT ROTATES BEYOND 1 1/2 INCHES (4 CM) OF INITIAL POSITION.

**END OF TASK**

**REPLACE TRACK**

**0298 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0298 00-1).
- Cleaning (page 0298 00-2).
- Installation (page 0298 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

References

- TM 9-2350-366-10-1
- TM 9-2530-200-24

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Track fixture (2) (WP 0397 00, Item 22)
- Track and sprocket gage (WP 0397 00, Item 24)
- Drive pin punch (WP 0397 00, Item 40)

Equipment Condition

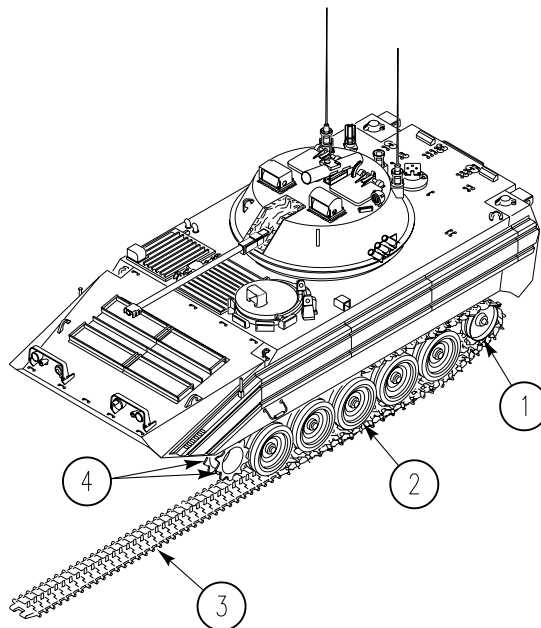
- Engine stopped (TM 9-2350-366-10-1)
- Carrier blocked (TM 9-2350-366-10-1)

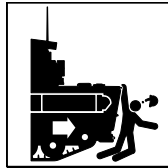
Personnel Required

- Unit mechanic 63T10
- Helper (H)

**REMOVAL**

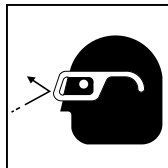
1. RELIEVE TENSION AND BREAK TRACK. See TM 9-2350-366-10-1.
2. UNBLOCK CARRIER. See TM 9-2350-366-10-1.
3. START ENGINE. See TM 9-2350-366-10-1. PLACE RANGE SELECTOR IN R. SLOWLY BACK CARRIER. See TM 9-2350-366-10-1.
4. (H) GUIDE TRACK (3) OVER DRIVE SPROCKETS (4), ROAD WHEELS (2), AND IDLER WHEEL (1).
5. AFTER CARRIER CLEARS TRACK (3), SET PARKING BRAKE. See TM 9-2350-366-10-1. PLACE RANGE SELECTOR IN SL. STOP ENGINE. See TM 9-2350-366-10-1.



**WARNING**

Failure to set the parking brake and block the road wheels can allow the vehicle to move and could result in injury or death. Always set the parking brake and block road wheels before working on the vehicle.

6. BLOCK CARRIER. See TM 9-2350-366-10-1.

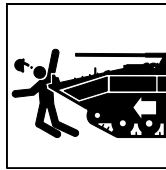
**CLEANING****WARNING**

Your eyes can be injured with pressurized water and dirt particles. Wear safety goggles.

1. CLEAN TRACK WITH PRESSURIZED WATER.
2. CHECK TRACK SHOES AND PADS. REPLACE WORN SHOES OR PADS (WP 0104 00).
3. CHECK GENERAL CONDITION OF TRACK. See TM 9-2530-200-24.

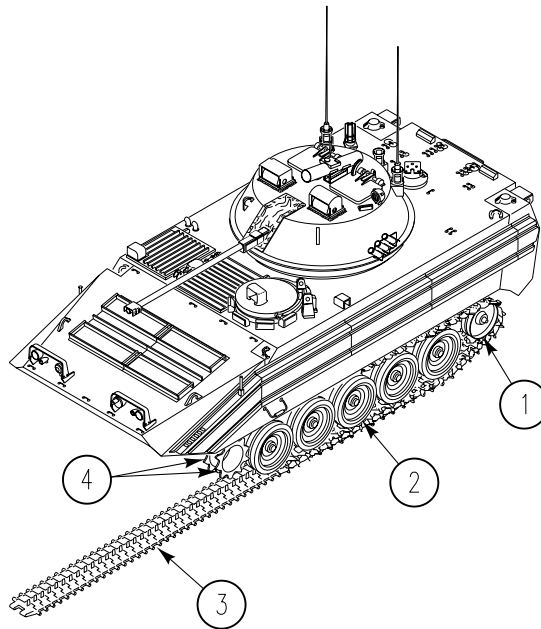


## INSTALLATION

**WARNING**

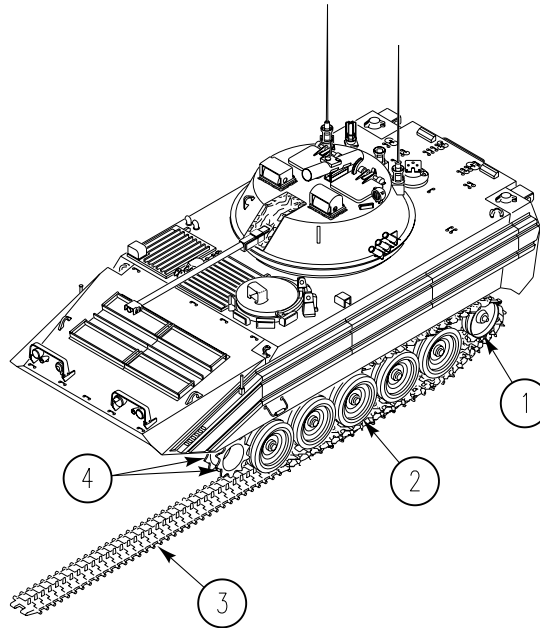
**Before adjusting the track, ensure there are 63 track shoes on the left side track and 64 track shoes on the right side track. Improper number of shoes may prevent the track from being properly adjusted, creating a safety hazard.**

1. (H) LAY TRACK (3) OUT FLAT IN FRONT OF CARRIER SO THAT TRACK GUIDES ARE ALIGNED BETWEEN FIRST PAIR OF ROAD WHEELS (2).

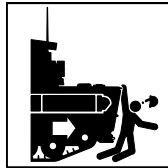


2. UNBLOCK CARRIER. See TM 9-2350-366-10-1.
3. START ENGINE. See TM 9-2350-366-10-1. PLACE RANGE SELECTOR IN 1 DRIVE. SLOWLY DRIVE CARRIER FORWARD. See TM 9-2350-366-10-1.

4. (H) PULL TRACK (3) UP AND OVER IDLER WHEEL (1), ROAD WHEELS (2), AND DRIVE SPROCKET (4).



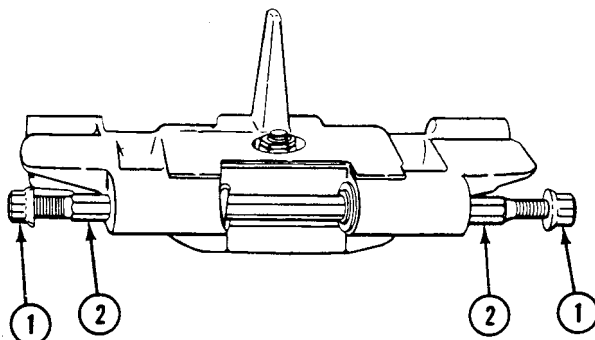
5. STOP CARRIER WHEN HUB OF FIRST ROAD WHEEL IS DIRECTLY OVER THIRD TRACK SHOE FROM THE END OF THE TRACK.
6. PLACE RANGE SELECTOR IN SL. STOP ENGINE. See TM 9-2350-366-10-1.

**WARNING**

**Failure to set the parking brake and block the road wheels can allow the vehicle to move and could result in injury or death. Always set the parking brake and block road wheels before working on the vehicle.**

7. BLOCK CARRIER. See TM 9-2350-366-10-1.

8. CONNECT TRACK AND ADJUST TENSION ON TWO NUTS (1) ON TRACK PIN (2) TO 115-135 LB-FT (155-183 N.M) TORQUE.



9. UNBLOCK CARRIER. See TM 9-2350-366-10-1.
10. ROAD TEST CARRIER TO CHECK THAT TRACK IS INSTALLED RIGHT.

**END OF TASK**



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**REPLACE TRACK SHOE ASSEMBLY**

**0299 00**

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**THIS WORK PACKAGE COVERS:**

Repair or Replacement (page 0299 00-1).

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**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
Torque wrench (WP 0397 00, Item 83)

Equipment Condition

Vehicle on level ground  
Engine stopped (TM 9-2350-366-10-1)  
Vehicle blocked (TM 9-2350-366-10-1)

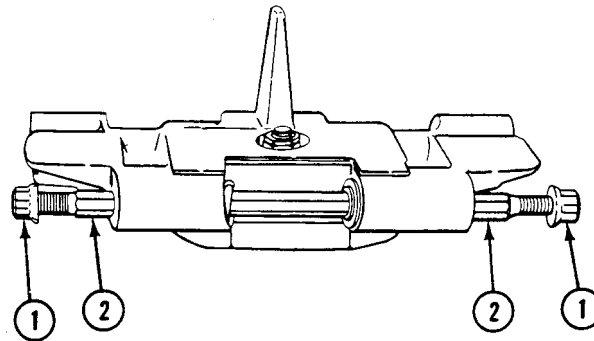
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Personnel Required

Unit Mechanic 63T10

**REPAIR OR REPLACEMENT**

1. REPLACE TRACK SHOE. See TM 9-2350-366-10-1.
2. TIGHTEN TWO NUTS (1) ON TRACK SHOE PIN (2) TO 115–135 LB-FT (155–183 N·m) TORQUE.



**END OF TASK**



**REPLACE TRACK SHOE PAD**

**0300 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0300 00-1).
- Installation (page 0300 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Torque wrench (WP 0397 00, Item 83)

Equipment Condition

- Vehicle on level surface
- Vehicle positioned with track pad accessible
- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)

Materials/Parts

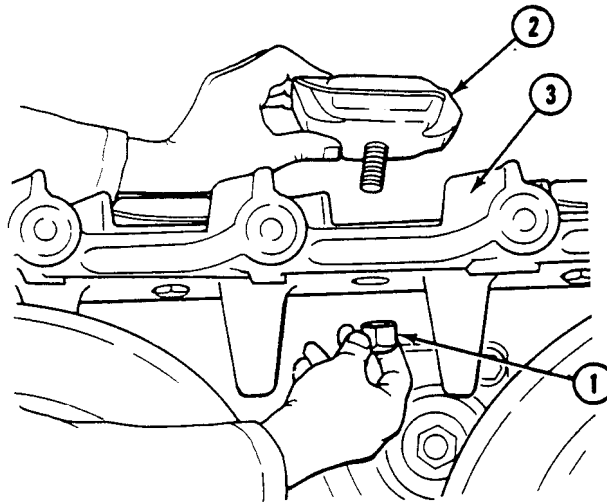
Nut

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. REMOVE NUT (1) AND PAD (2) FROM TRACK SHOE (3). DISCARD NUT.



**INSTALLATION**

**NOTE**

**Your vehicle might have either T130 or T130E1 track, or a mixture of both. A T130E1 track pad is about 4-3/4 inches (12 cm) long. A T130 track pad is about 5-1/4 inches (13 cm) long.**

1. INSTALL TRACK SHOE PAD (2) IN SHOE (3). SECURE WITH NEW NUT (1). TIGHTEN NUT TO 135–155 LB-FT (183–210 N·m) TORQUE.

**END OF TASK**





CHAPTER 26

UNIT MAINTENANCE INSTRUCTIONS  
FOR STEERING

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**WORK PACKAGE INDEX**

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| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| REPLACE PUSH-PULL CONTROL ASSEMBLY, BRACKET, LINKS, AND PINS..... | .0301 00            |
| ADJUST STEERING WHEEL LINKAGE.....                                | .0302 00            |
| REPLACE STEERING LOCK SWITCH.....                                 | .0303 00            |
| REPLACE STEERING SUPPORT, BRACKETS, AND SHAFT.....                | .0304 00            |
| REPLACE QUICK-RELEASE PIN AND LANYARD.....                        | .0305 00            |
| REPLACE STEERING WHEEL LINKAGE.....                               | .0306 00            |



# REPLACE PUSH-PULL CONTROL ASSEMBLY, BRACKET, LINKS, AND PINS

0301 00

## THIS WORK PACKAGE COVERS:

- Removal (page 0301 00-1).
- Installation (page 0301 00-6).
- Adjustment (page 0301 00-10).

## INITIAL SETUP:

### Maintenance Level

Unit

- Spring pin (2)
- Spring pin
- Spring pin
- Strap (2)

### Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

### Personnel Required

Unit Mechanic 63T10

### Materials/Parts

- Sealing compound (WP 0399 00, Item 46)
- Wiping rag (WP 0399 00, Item 64)
- Cotter pin (3)
- Lockwasher (2)

### References

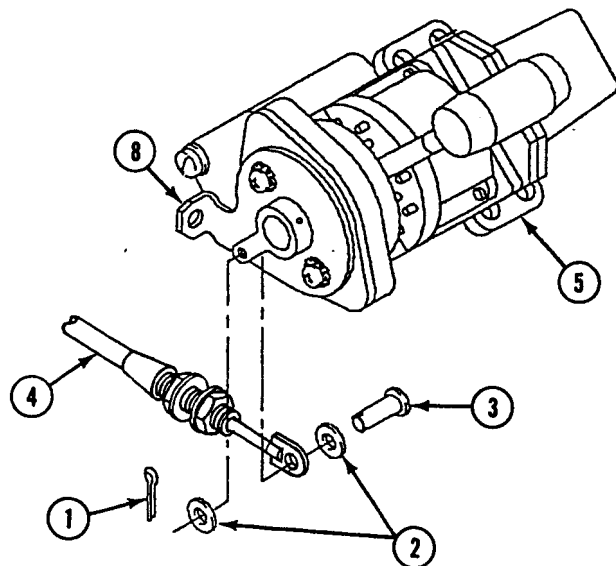
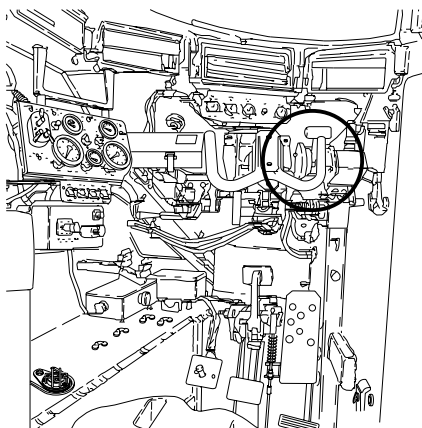
TM 9-2350-366-10-1

### Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)

## REMOVAL

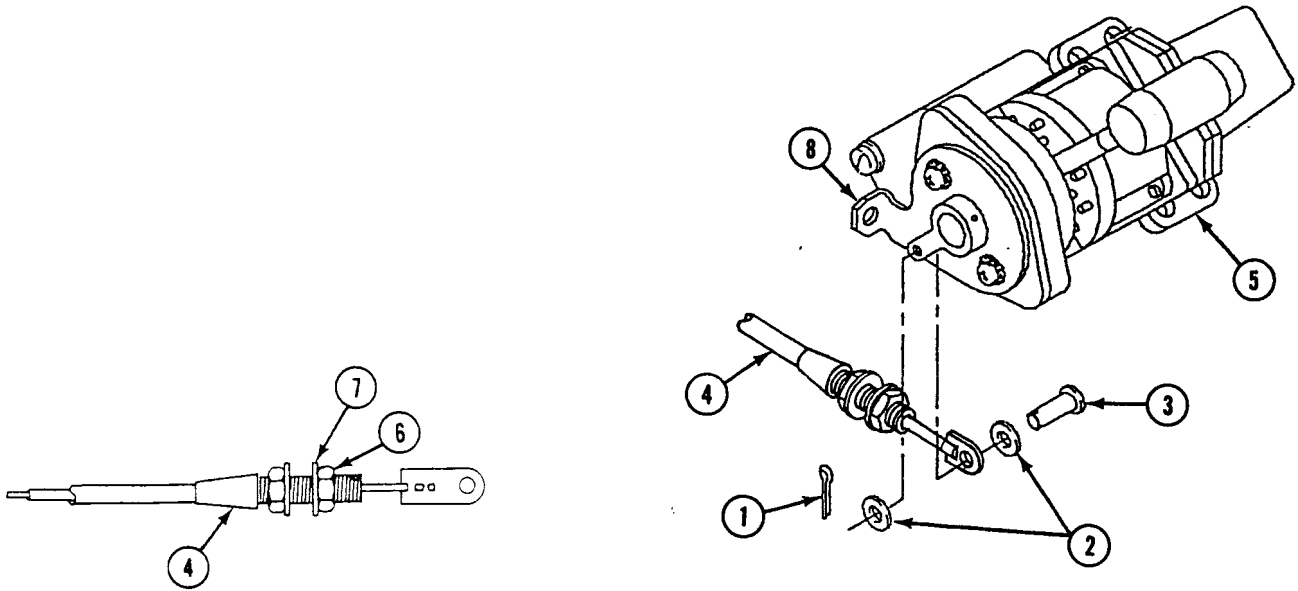
1. REMOVE COTTER PIN (1), TWO WASHERS (2), PIN (3), AND PUSH-PULL CONTROL ASSEMBLY (4) FROM TRANSMISSION CONTROLLER (5). DISCARD COTTER PIN.



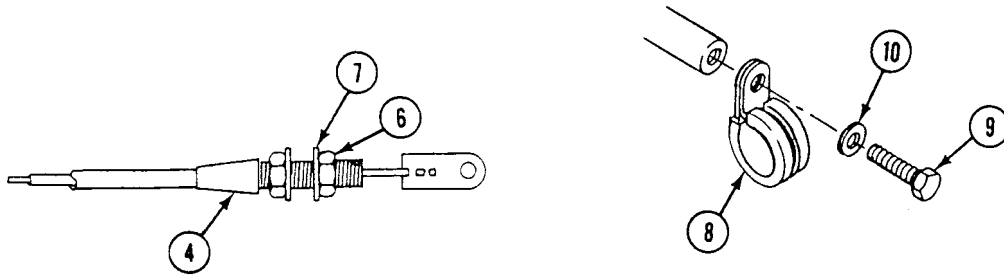
REPLACE PUSH-PULL CONTROL ASSEMBLY, BRACKET, LINKS, AND PINS —  
Continued

0301 00

- REMOVE NUT (6) AND LOCKWASHER (7) FROM END OF PUSH-PULL CONTROL ASSEMBLY (4). REMOVE END OF PUSH-PULL CONTROL ASSEMBLY (4) FROM BRACKET (8) ON CONTROLLER (5). INSTALL NUT (6) ON END OF ASSEMBLY FOR FUTURE USE. DISCARD LOCKWASHER.



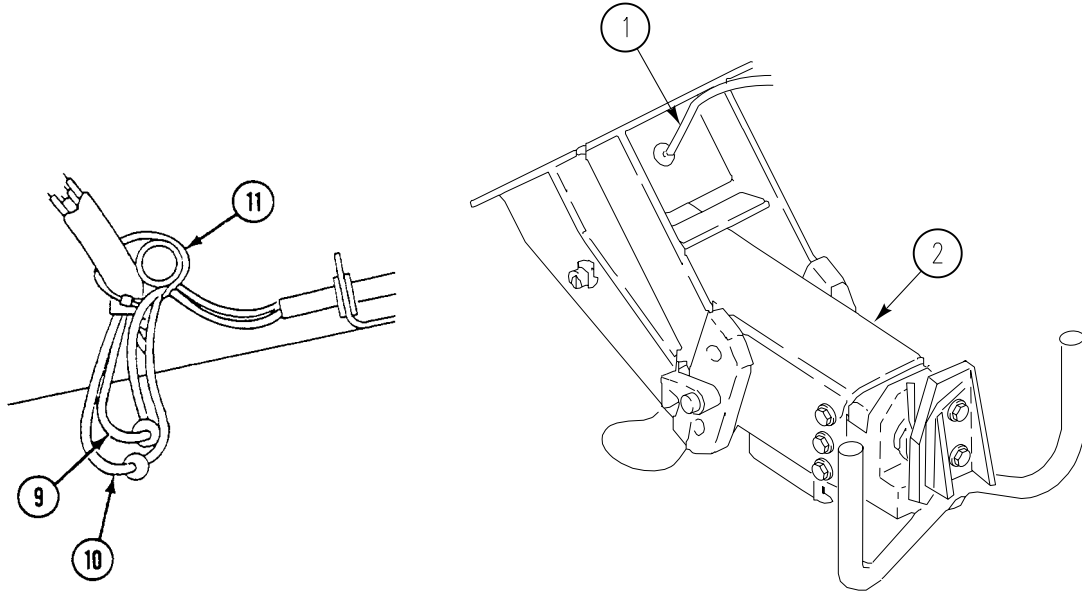
- REMOVE SCREW (9), LOCKWASHER (10), AND CLAMP (8) SECURING PUSH-PULL CONTROL ASSEMBLY (4) TO FRONT OF HULL. DISCARD LOCKWASHER.



**REPLACE PUSH-PULL CONTROL ASSEMBLY, BRACKET, LINKS, AND PINS —**  
**Continued**

0301 00

- REMOVE TWO STRAPS (11) SECURING LEADS 369A (9) AND 368 (10) INSIDE STEERING WHEEL HOUSING (2).

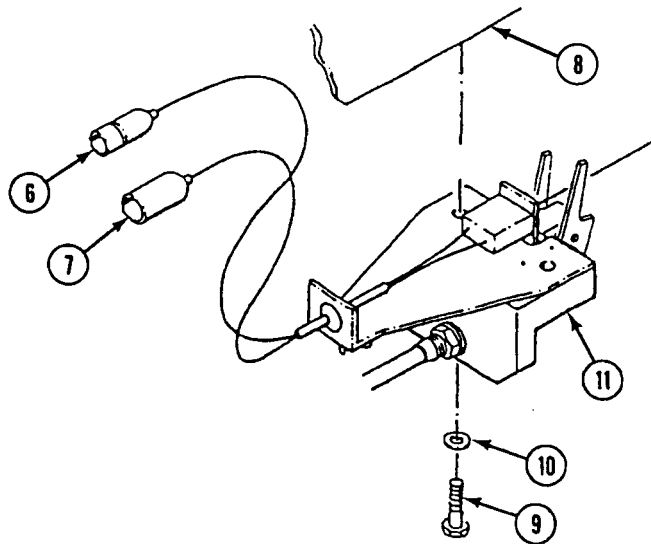


- DISCONNECT CIRCUIT LEAD 369A (6) AND LEAD 368 (7) FROM WIRING HARNESS.

**NOTE**

**Do not drop locking pin, block, and spring when removing mounting bracket.**

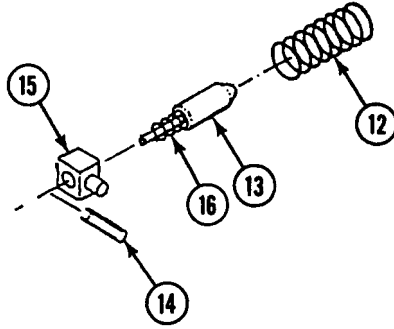
- REMOVE TWO SCREWS (9), WASHERS (10) AND MOUNTING BRACKET (11) FROM STEERING WHEEL HOUSING (8).



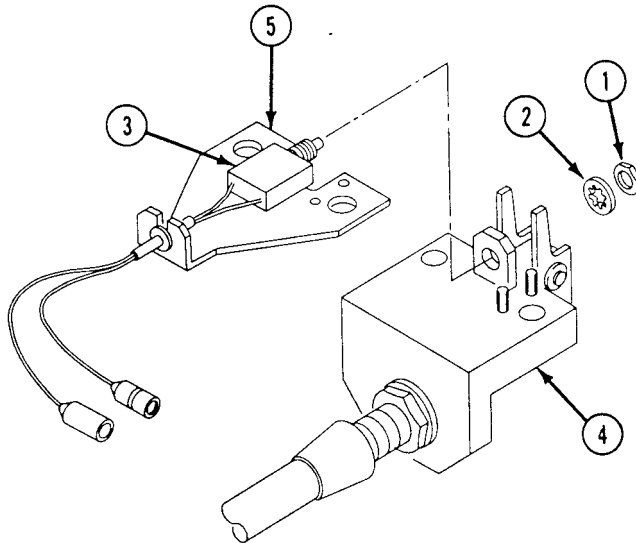
REPLACE PUSH-PULL CONTROL ASSEMBLY, BRACKET, LINKS, AND PINS —  
Continued

0301 00

7. REMOVE SPRING (12) FROM LOCKING PIN (13). REMOVE PIN (14) FROM LOCKING PIN (13). REMOVE BLOCK (15) AND SPRING (16) FROM LOCKING PIN (13). DISCARD PIN.



8. REMOVE NUT (1) AND LOCKWASHER (2) THAT SECURE SWITCH (3) TO BRACKET (4). DISCARD LOCKWASHER.



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**REPLACE PUSH-PULL CONTROL ASSEMBLY, BRACKET, LINKS, AND PINS —**  
**Continued**


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0301 00

**NOTE**

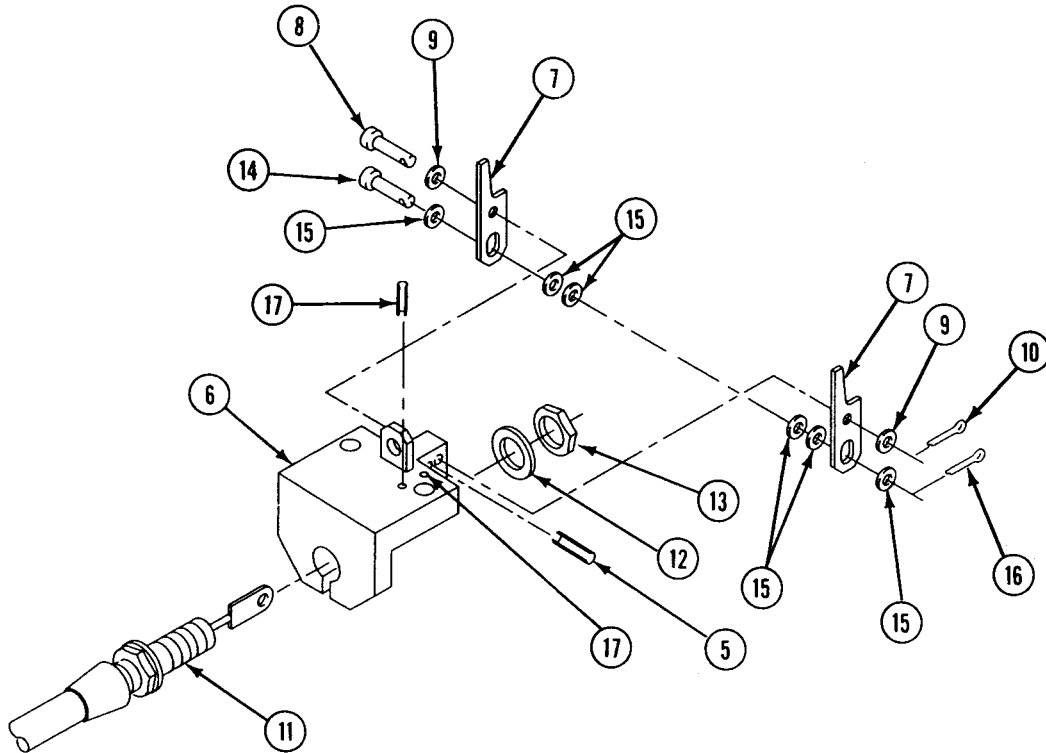
Washers are also used as shims to insure proper fit. The number of washers will vary accordingly.

9. REMOVE COTTER PIN (16), WASHERS (15), AND PIN (14) THAT SECURE PUSH-PULL CONTROL ASSEMBLY (11) TO LINKS (7). DISCARD COTTER PIN.
10. REMOVE NUT (12), LOCKWASHER (13), AND PUSH-PULL CONTROL ASSEMBLY (11) FROM BRACKET (6).
11. REMOVE COTTER PIN (10), TWO WASHERS (9), AND PIN (8) THAT SECURE LINKS (7) TO BRACKET (6). DISCARD COTTER PIN.

**NOTE**

Do Step 12 if spring pins are damaged and the bracket is not being replaced.

12. REMOVE THREE SPRING PINS (17) AND (5) FROM BRACKET (6). DISCARD SPRING PINS.

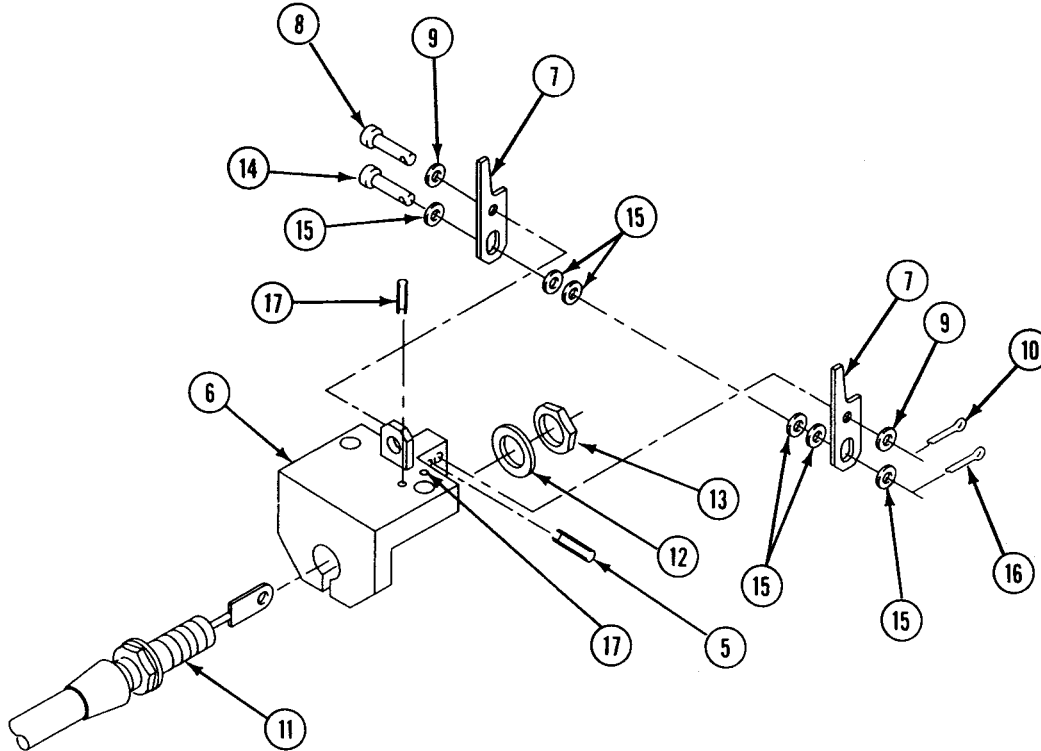


INSTALLATION

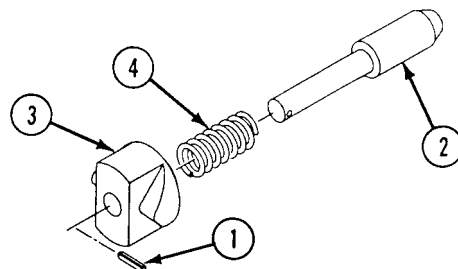
NOTE

Do Step 1 if spring pins were damaged and needed replacing.

1. INSTALL THREE NEW SPRING PINS (17) AND (5) ON BRACKET (6).



2. INSTALL SPRING (4) ON LOCKING PIN (2).
3. INSTALL BLOCK (3) ON LOCKING PIN (2) WITH NEW PIN (1).





**REPLACE PUSH-PULL CONTROL ASSEMBLY, BRACKET, LINKS, AND PINS —**  
**Continued**

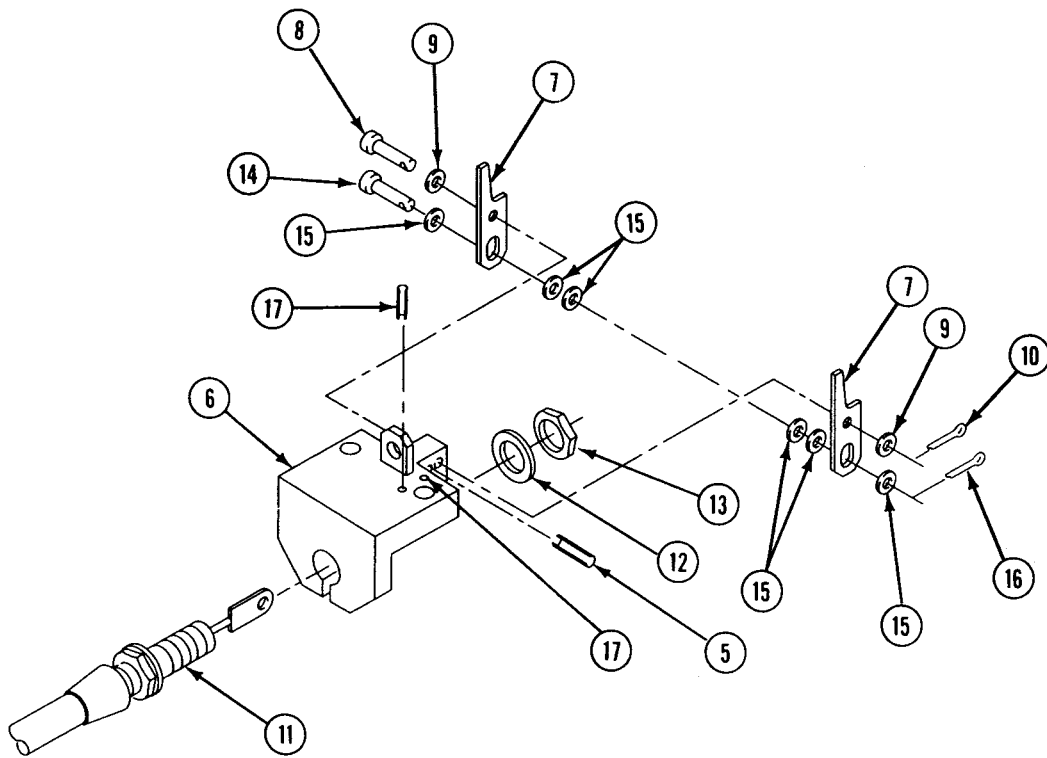
0301 00

4. INSTALL LINKS (7) TO BRACKET (6) BY ALIGNING THE CENTER HOLES OF THE LINKS WITH THE UPPERMOST HOLES OF BRACKET (6) AND INSERTING PIN (8), WASHERS (9), AND NEW COTTER PIN (10).
5. INSTALL PUSH-PULL CONTROL ASSEMBLY (11), NEW LOCKWASHER (12), AND NUT (13) ON BRACKET (6).

**NOTE**

Washers are also used as shims to insure proper fit and to center end of push-pull assembly.

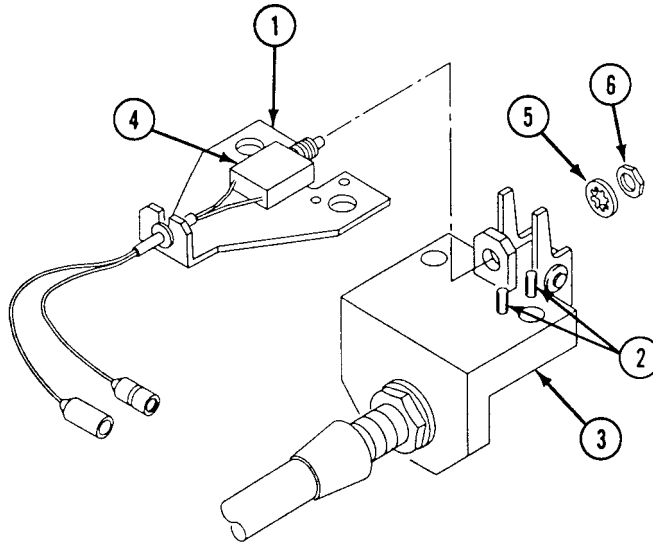
6. INSTALL PIN (14), LINKS (7), WASHERS (SHIMS) (15) AS NEEDED, PUSH-PULL CONTROL ASSEMBLY (11), AND NEW COTTER PIN (16).



**REPLACE PUSH-PULL CONTROL ASSEMBLY, BRACKET, LINKS, AND PINS —**  
**Continued**

0301 00

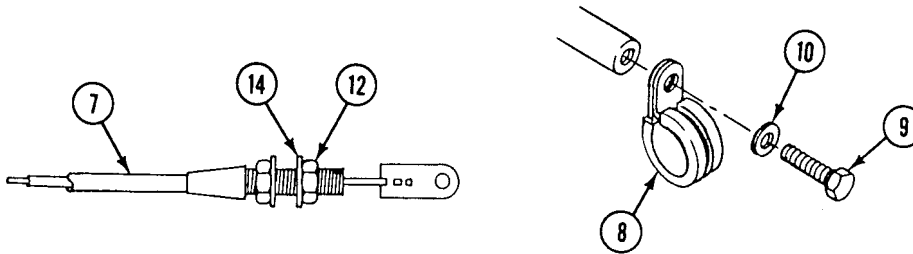
7. INSTALL SWITCH BRACKET (1) ON SPRING PINS (2) ON BRACKET (3).
8. INSTALL SWITCH (4), NEW LOCKWASHER (5), AND NUT (6) ON BRACKET (3).



**NOTE**

**Route push-pull control assembly with one end at transmission controller and other end at steering wheel housing.**

9. INSTALL PUSH-PULL CONTROL ASSEMBLY (7) IN CLAMP (8) AND SECURE TO HULL WITH SCREW (9) AND NEW LOCKWASHER (10).



10. ROUTE PUSH-PULL CONTROL ASSEMBLY (7) TO TRANSMISSION CONTROLLER (11).
11. REMOVE NUT (12) FROM END OF PUSH-PULL CONTROL ASSEMBLY (7). PLACE END OF PUSH-PULL CONTROL ASSEMBLY (7) THROUGH HOLE IN BRACKET (13). INSTALL NEW LOCKWASHER (14) AND NUT (12).

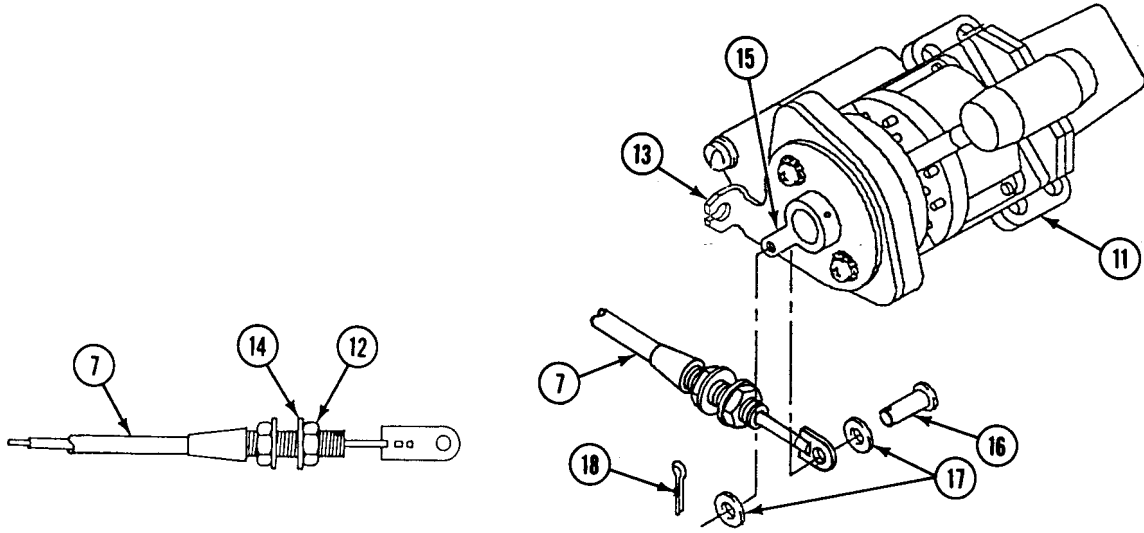
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**REPLACE PUSH-PULL CONTROL ASSEMBLY, BRACKET, LINKS, AND PINS —**  
**Continued**

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0301 00

12. CONNECT END OF PUSH-PULL CONTROL ASSEMBLY (7) TO BRACKET (15) WITH PIN (16), TWO WASHERS (17) AND NEW COTTER PIN (18).



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**REPLACE PUSH-PULL CONTROL ASSEMBLY, BRACKET, LINKS, AND PINS —**  
**Continued**


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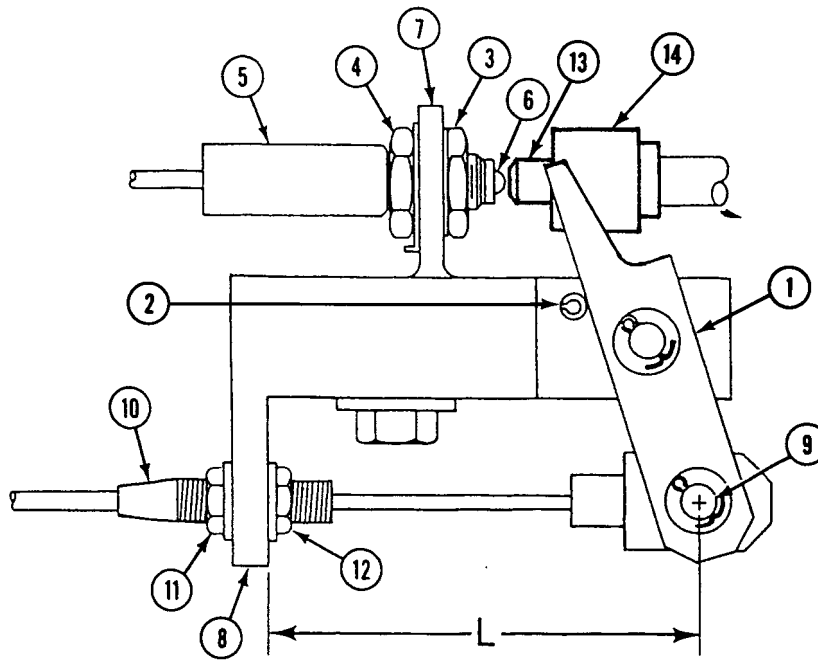
0301 00

13. WITH THE LINKS (1) RESTING ON SPRING PIN (2), LOOSEN TWO JAMNUTS (3) AND (4) ON SWITCH (5).

**NOTE**

**Make sure switch plunger is contacting end of locking pin while adjusting switch.**

14. PUSH SWITCH (5) IN UNTIL SWITCH PLUNGER (6) IS FULLY DEPRESSED.  
 15. TURN JAMNUT (3) UNTIL IT TOUCHES BRACKET (7), THEN TURN IT BACK ONE HALF TURN.  
 16. TIGHTEN SECOND JAMNUT (4) TO SECURE SWITCH (5) TO BRACKET (7).  
 17. INSTALL BLOCK (14) AND LOCKING PIN (13) BETWEEN LINKS (1).

**ADJUSTMENT**

1. USE A 6-INCH RULER TO MEASURE THE DISTANCE FROM BRACKET HOUSING (8) TO CENTER OF ROD END PIN (9).
2. PLACE TRANSMISSION CONTROLLER IN SL POSITION.
3. ADJUST PUSH-PULL CONTROL ASSEMBLY (10) AT JAMNUTS (11) AND (12) SO THAT LINKS ARE 1/2 INCH FROM THEIR RETRACTED POSITION AS FOLLOWS:
  - a. WITH TRANSMISSION CONTROLLER IN SL POSITION, MEASURE THE DISTANCE FROM BRACKET (8) TO THE CENTER OF PIN (9). RECORD DISTANCE AS L1.
  - b. MOVE THE TRANSMISSION CONTROLLER OUT OF SL POSITION.
  - c. MEASURE THE DISTANCE FROM BRACKET (8) TO THE CENTER OF PIN (9). RECORD DISTANCE AS L2.
  - d. THE DIFFERENCE BETWEEN THE MEASURED DISTANCES L2 MINUS L1 MUST BE 1/2 INCH  $\pm$  1/32 INCH (12.7  $\pm$  .8 MM).
  - e. ADJUST JAMNUTS (11) AND (12) TO GET 1/2 INCH ADJUSTMENT. TIGHTEN JAMNUTS.

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**REPLACE PUSH-PULL CONTROL ASSEMBLY, BRACKET, LINKS, AND PINS —**  
**Continued**


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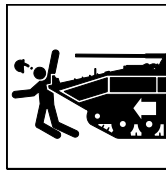
0301 00

4. PLACE TRANSMISSION CONTROLLER IN R POSITION.
5. INSTALL SPRING (1) ON LOCKING PIN (2).
6. INSTALL BRACKET (3) IN STEERING WHEEL HOUSING (4). SECURE WITH TWO WASHERS (5) AND SCREWS (6). DO NOT TIGHTEN.
7. TURN STEERING WHEEL (7) ALL THE WAY TO ONE SIDE. SLIDE BRACKET (3) TO THE STEERING WHEEL (7) UNTIL LOCKING PIN (2) IS FLUSH WITH THE HOUSING (4).
8. TURN THE STEERING WHEEL (7) LEFT AND RIGHT TO INSURE THE LOCKING PIN IS NOT INTERFERING WITH OPERATION.
9. MEASURE THE LOCKING PIN (2) TO SEE IF IT IS FLUSH WITH THE STEERING WHEEL HOUSING (4). THE LOCKING PIN MUST BE FLUSH AND CAN HAVE ONLY A NEGATIVE TOLERANCE. IT CAN BE A MAXIMUM RECESS OF 1/16 INCH (1.6 MM). THIS MEASUREMENT IS MAINTAINED FOR ALL POSITIONS OF THE TRANSMISSION CONTROLLER EXCEPT THE SL POSITION.

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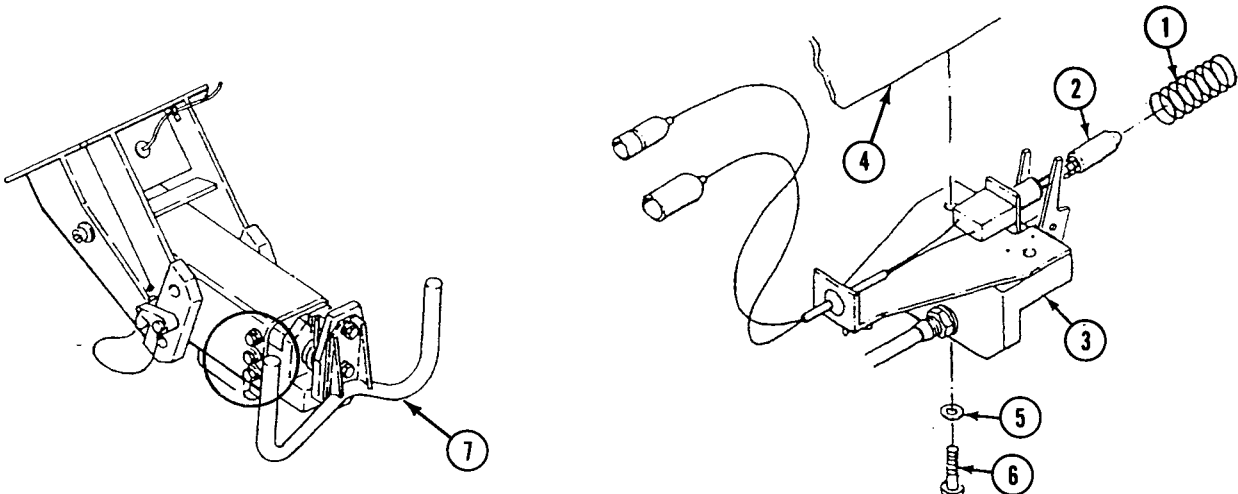
**WARNING**


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**With the transmission controller in any range except SL and if the locking pin is protruding from the steering wheel housing any amount, the steering wheel will not turn properly and death of personnel or damage of equipment may occur.**

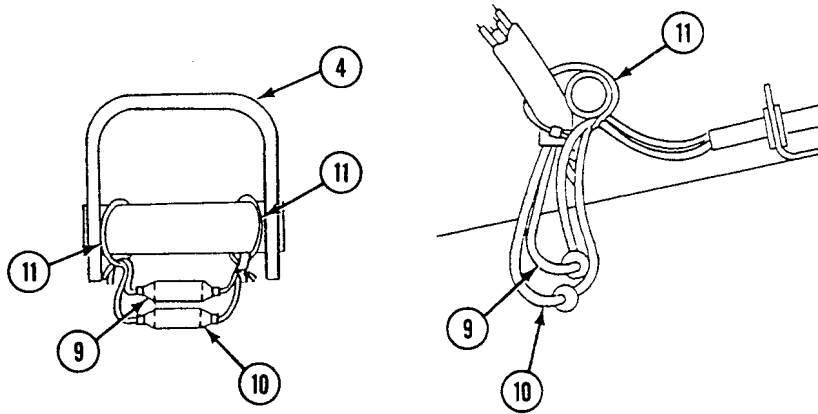
10. LOOSEN TWO SCREWS (6) AND ADJUST THE BRACKET (3) UNTIL THE LOCKING PIN (2) IS FLUSH OR MAXIMUM 1/16 INCH (1.6 MM) RECESSED. TIGHTEN TWO SCREWS (6).



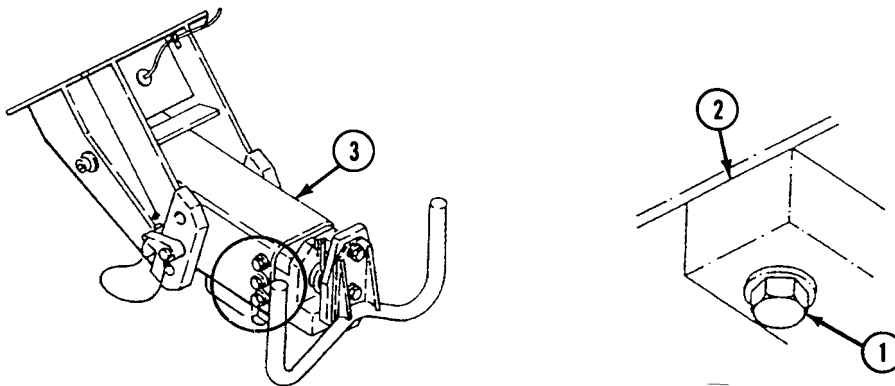
**REPLACE PUSH-PULL CONTROL ASSEMBLY, BRACKET, LINKS, AND PINS —**  
**Continued**

0301 00

11. INSTALL LEADS 369A (9) AND 368 (10).
12. SECURE LEADS 369A (9) AND 368 (10) WITH TWO NEW STRAPS (11) TO STEERING WHEEL HOUSING (4).



13. ROTATE STEERING WHEEL 30 DEGREES IN EITHER DIRECTION. HOLD STEERING WHEEL IN THIS POSITION.
14. PLACE TRANSMISSION CONTROLLER IN SL POSITION.
15. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1.
16. OBSERVE THAT STEERING LOCKED WARNING LIGHT IS OFF. See TM 9-2350-366-10-1.
17. IF STEERING LOCKED WARNING LIGHT COMES ON, LOOSEN TWO SCREWS (1) THAT SECURE BRACKET (2) TO STEERING WHEEL HOUSING (3).
18. SLIDE BRACKET (2) AWAY FROM STEERING WHEEL UNTIL STEERING LOCKED WARNING LIGHT GOES OUT.
19. TIGHTEN TWO SCREWS (1) THAT SECURE BRACKET (2) TO STEERING WHEEL HOUSING (3).



20. CENTER STEERING WHEEL. STEERING WHEEL SHOULD LOCK.
21. STEERING LOCKED WARNING LIGHT SHOULD TURN ON. See TM 9-2350-366-10-1.
22. TURN MASTER SWITCH OFF. See TM 9-2350-366-10-1.
23. PLACE TRANSMISSION CONTROLLER IN R POSITION. See TM 9-2350-366-10-1.
24. ROTATE STEERING WHEEL IN BOTH DIRECTIONS. THERE SHOULD BE NO INTERFERENCE. IF THERE IS, REPEAT Step 9 AND Step 10.
25. PLACE TRANSMISSION CONTROLLER IN SL POSITION. See TM 9-2350-366-10-1.

**END OF TASK**

**ADJUST STEERING WHEEL LINKAGE**

**0302 00**

**THIS WORK PACKAGE COVERS:**

Adjustment (page 0302 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

Locknut (2)

Personnel Required

Unit Mechanic 63T10

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Front power plant access doors removed  
(TM 9-2350-366-10-1)

Driver's power plant access panel removed  
(TM 9-2350-366-10-1)

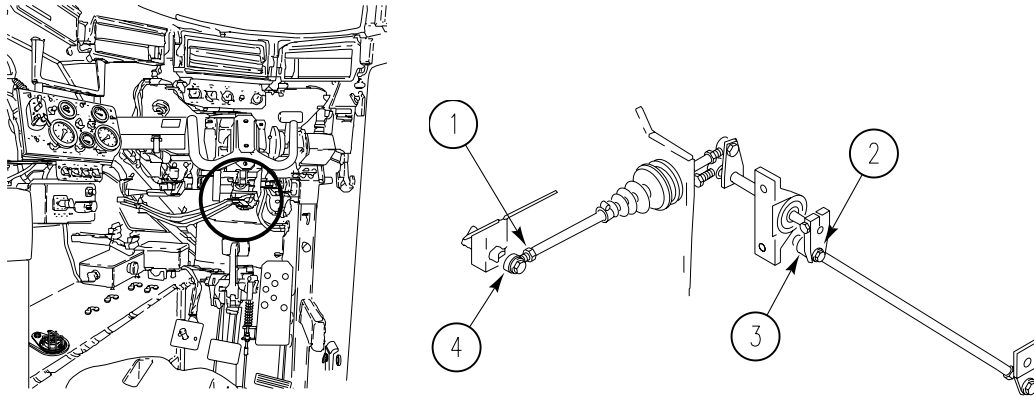
References

TM 9-2350-366-10-1

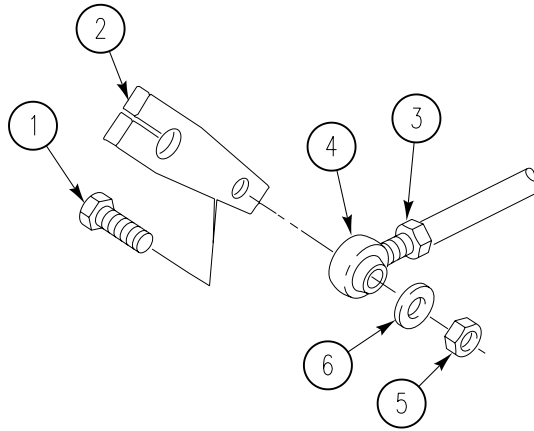
TM 9-2350-366-10-2

**ADJUSTMENT**

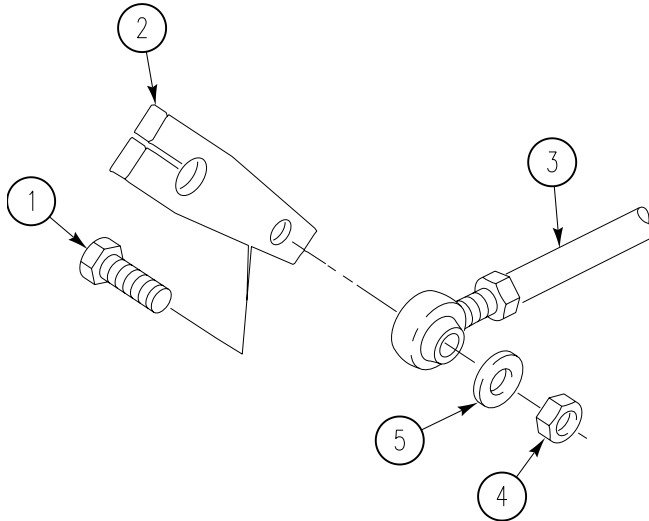
1. LOOSEN JAMNUT (1) ON ROD END BEARING (4).



2. LOOSEN JAMNUT (3) ON ROD END BEARING (4).

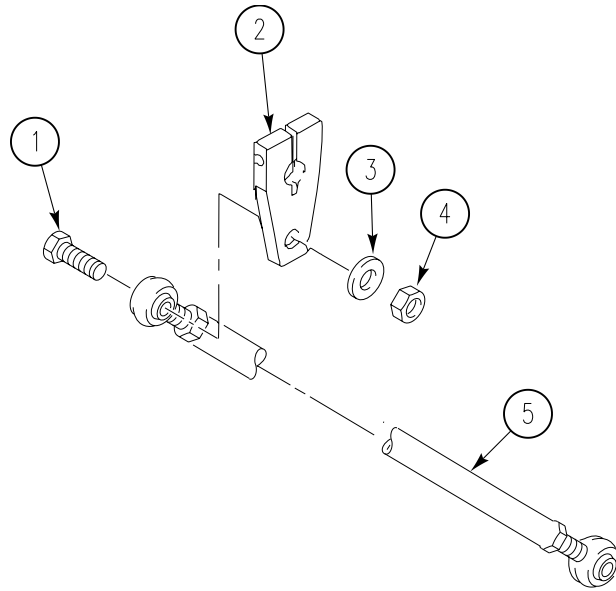


3. REMOVE SCREW (1), WASHER (5), AND LOCKNUT (4) FROM LINK (3) AND ARM (2). DISCARD LOCKNUT.

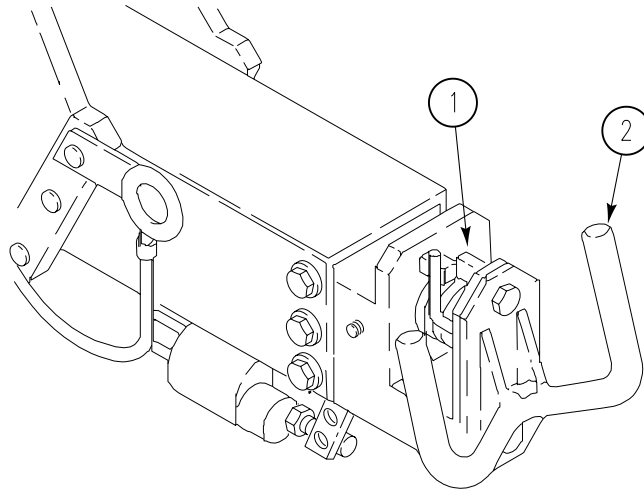




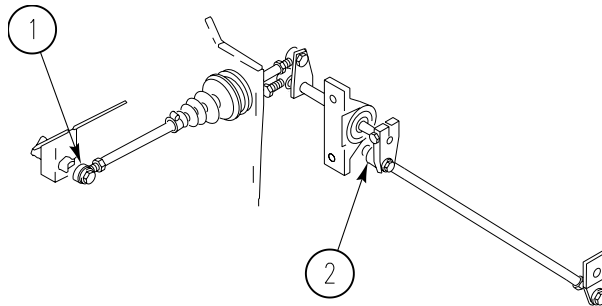
4. REMOVE SCREW (1), WASHER (3), AND LOCKNUT (4) FROM LINK (5) AND ARM (2). DISCARD LOCKNUT.



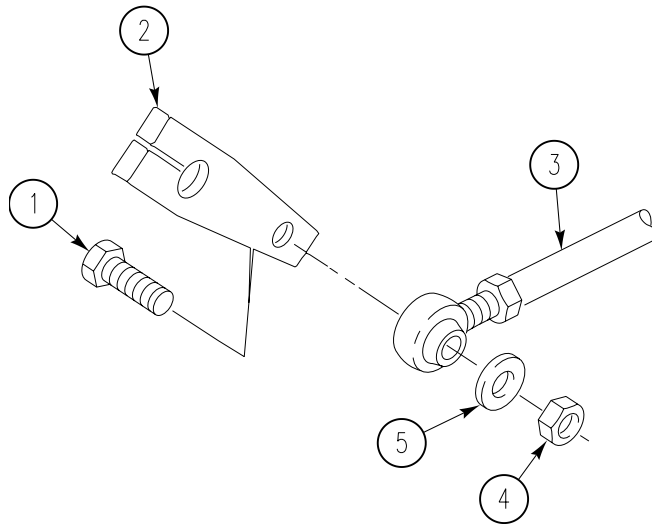
5. CENTER STEERING WHEEL (2) BY CENTERING STEERING WHEEL SPRING (1).



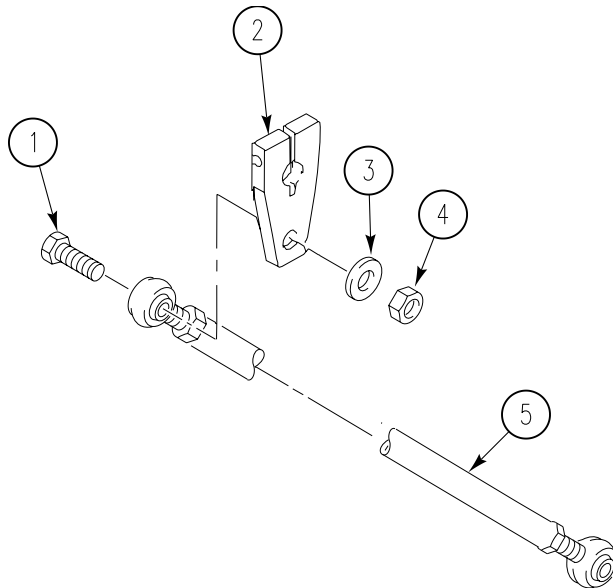
6. ADJUST ROD END BEARING (1) AND ROD END BEARING (2) UNTIL THERE IS A FREE PIN FIT.



7. SECURE LINK (3) ON ARM (2) WITH SCREW (1), WASHER (5), AND NEW LOCKNUT (4).



8. SECURE LINK (5) ON ARM (2) WITH SCREW (1), WASHER (3), AND NEW LOCKNUT (4).



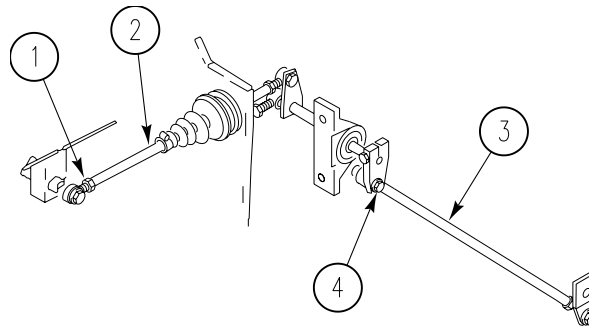
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**ADJUST STEERING WHEEL LINKAGE — Continued**

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**0302 00**

9. TIGHTEN JAMNUT (1) ON LINK (2) AND JAMNUT (4) ON LINK (3).



10. INSTALL DRIVER'S POWER PLANT ACCESS PANEL. See TM 9-2350-366-10-1.  
11. INSTALL FRONT POWER PLANT ACCESS DOORS. See TM 9-2350-366-10-1.

**END OF TASK**



**REPLACE STEERING LOCK SWITCH**

**0303 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0303 00-1).  
 Installation (page 0303 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Control assembly bracket removed (WP 0266 00)  
 Turret rotated to 3200 mils (TM 9-2350-366-10-2)

Materials/Parts

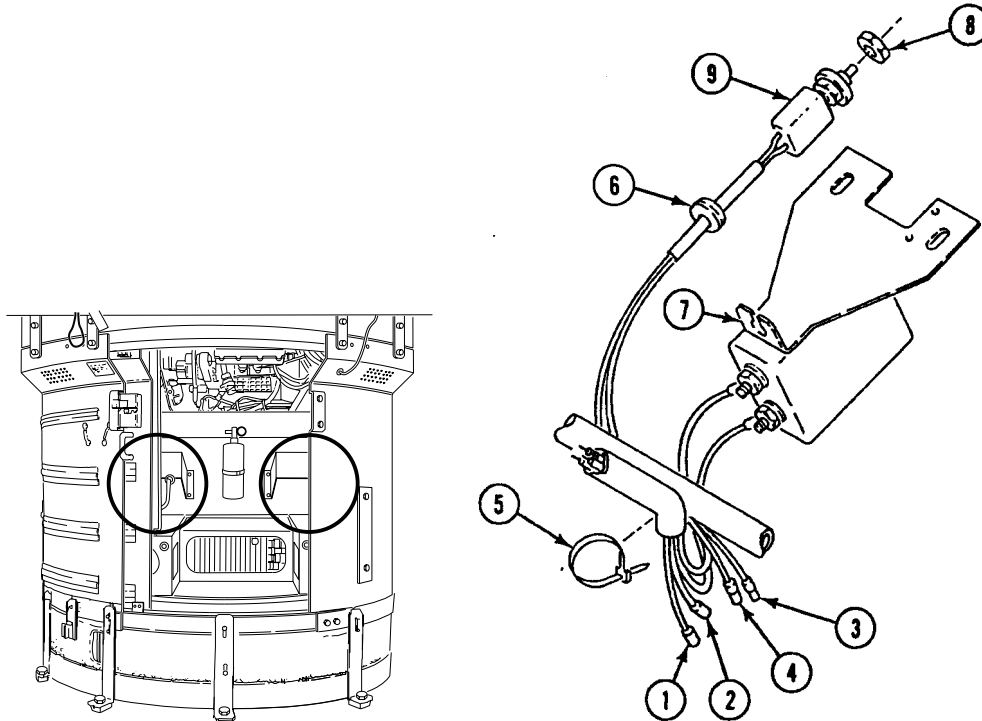
Tiedown strap

Personnel Required

Unit Mechanic 63T10

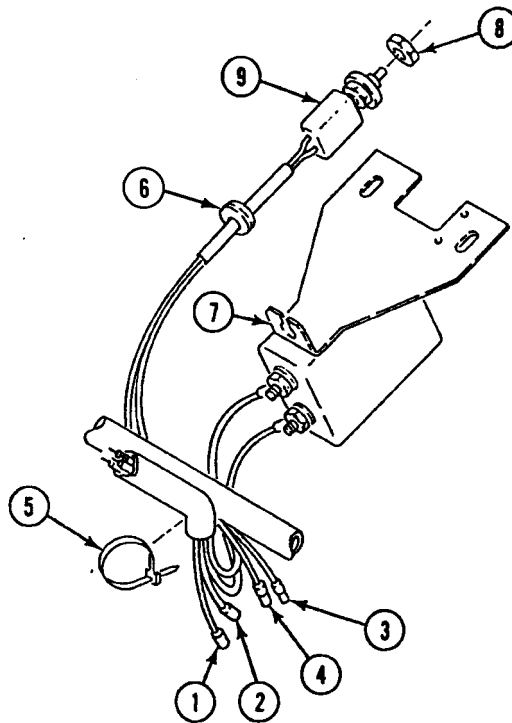
**REMOVAL**

1. DISCONNECT LEADS 369 AND 369A (USED ON SOLENOID-ACTIVATED LOCK) OR LEADS 368 AND 369A (USED ON CABLE-ACTIVATED LOCK) (1) AND (2) FROM SWITCH LEADS (3) AND (4). CUT AND REMOVE TIEDOWN STRAP (5). DISCARD STRAP.
2. REMOVE GROMMET (6) WITH LEADS (3) AND (4) FROM BRACKET (7).
3. LOOSEN JAMNUT (8). REMOVE JAMNUT (8) BY HAND, AND REMOVE SWITCH (9) FROM BRACKET (7).



**INSTALLATION**

1. REMOVE FORWARD JAMNUT (8) ON NEW SWITCH (9) BY HAND. DO NOT REMOVE REAR JAMNUT, LOCKWASHER, AND KEYWAY WASHER.
2. INSTALL SWITCH (9) INTO BRACKET (7), RUNNING JAMNUT (8) DOWN TO BRACKET.
3. ADJUST SWITCH (9) SO PLUNGER IS FULLY DEPRESSED WHEN STEERING IS UNLOCKED (TRANSMISSION CONTROLLER IN ANY POSITION EXCEPT SL). TIGHTEN JAMNUTS (8) ON SWITCH.
4. INSTALL SWITCH LEADS (3) AND (4) WITH GROMMET (6) ON BRACKET (7).
5. CONNECT LEADS 369 AND 369A (USED ON SOLENOID-ACTIVATED LOCK) OR LEADS 368 AND 369A (USED ON CABLE-ACTIVATED LOCK) (1) AND (2) TO SWITCH LEADS (3) AND (4). SECURE WITH NEW TIEDOWN STRAP (5).



6. ROTATE TURRET TO 6400 MILS OR AS NEEDED. See TM 9-2350-366-10-2.
7. INSTALL CONTROL ASSEMBLY BRACKET (WP 0266 00).

**END OF TASK**

**REPLACE STEERING SUPPORT, BRACKETS, AND SHAFT**

**0304 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0304 00-1).  
 Installation (page 0304 00-5).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Retaining ring pliers set (WP 0397 00, Item 32)  
 Torque wrench (WP 0397 00, Item 82)  
 Vise (WP 0397 00, Item 67)

References

TM 9-2350-366-10-1

Materials/Parts

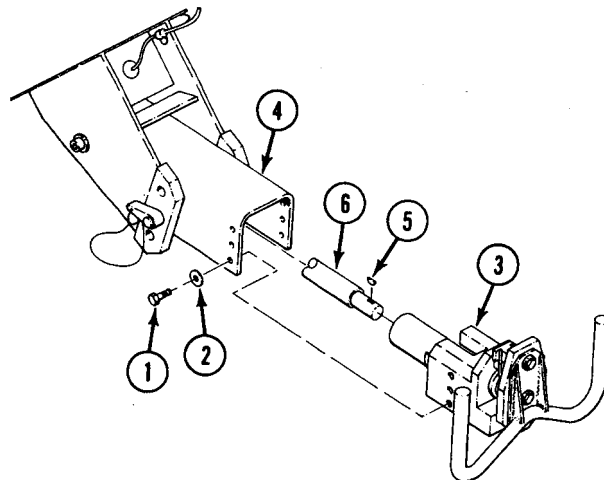
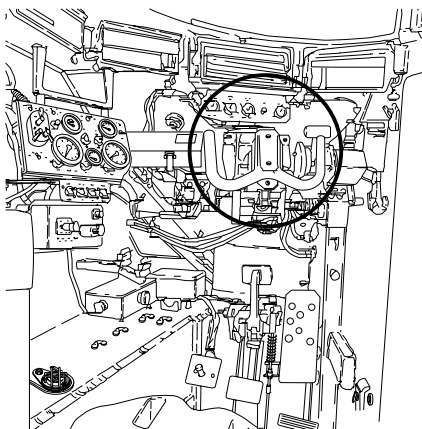
Grommet  
 Locknut (3)  
 Lockwasher (10)  
 Locknut (3)  
 Retaining ring  
 Spring pin (4)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Control assembly bracket removed (WP 0266 00)  
 Steering wheel linkage removed (WP 0306 00)

**REMOVAL**

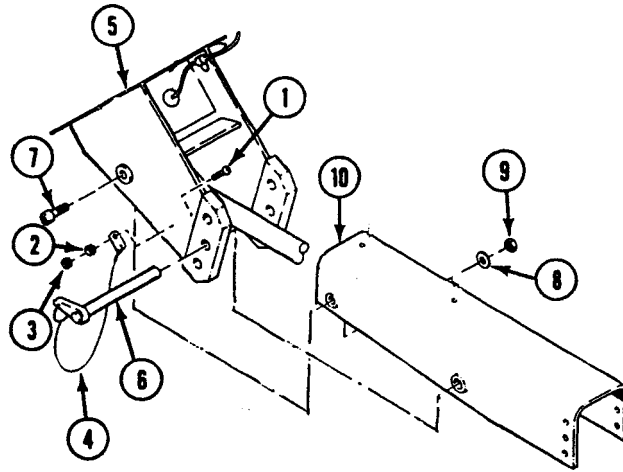
1. REMOVE SIX SCREWS (1) AND WASHERS (2) THAT SECURE STEERING WHEEL ASSEMBLY (3) TO SUPPORT (4). REMOVE STEERING WHEEL ASSEMBLY.
2. REMOVE WOODRUFF KEY (5) FROM SHAFT (6).



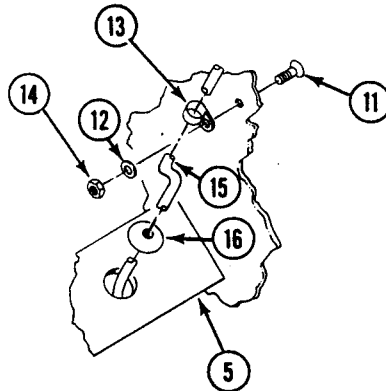
REPLACE STEERING SUPPORT, BRACKETS, AND SHAFT — Continued

0304 00

3. REMOVE SCREW (1), WASHER (2), AND NUT (3) THAT SECURE LANYARD (4) TO BRACKET (5). REMOVE PIN (6).
4. REMOVE TWO SOCKET HEAD SCREWS (7), WASHERS (8), AND LOCKNUTS (9) THAT SECURE SUPPORT (10) TO BRACKET (5). REMOVE SUPPORT FROM VEHICLE. DISCARD LOCKNUTS.



5. REMOVE THREE SCREWS (11), WASHERS (12), CLAMPS (13), AND NUTS (14) FROM CABLE (15) AND BRACKET (5).
6. PULL CABLE (15) AND GROMMET (16) FROM BRACKET (5). DISCARD GROMMET.

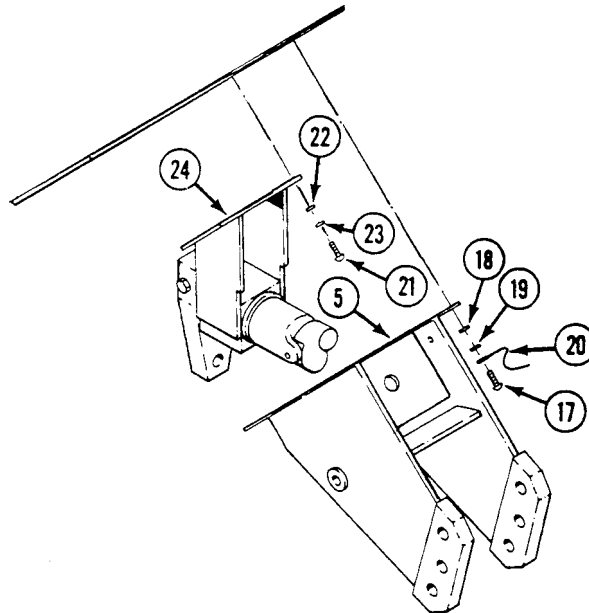




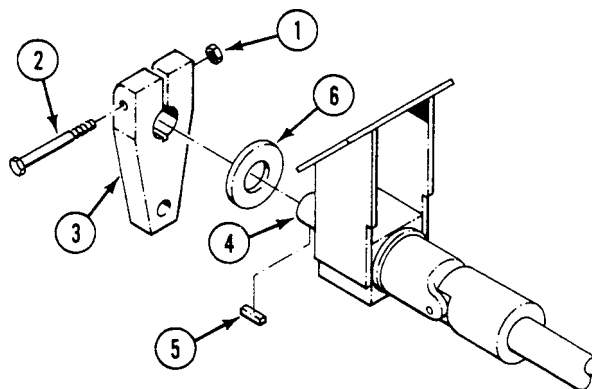
REPLACE STEERING SUPPORT, BRACKETS, AND SHAFT — Continued

0304 00

7. REMOVE SIX SCREWS (17), WASHERS (18), LOCKWASHERS (19) AND GROUND WIRE (20) FROM BRACKET (5) AND BULKHEAD. REMOVE BRACKET. DISCARD LOCKWASHERS.

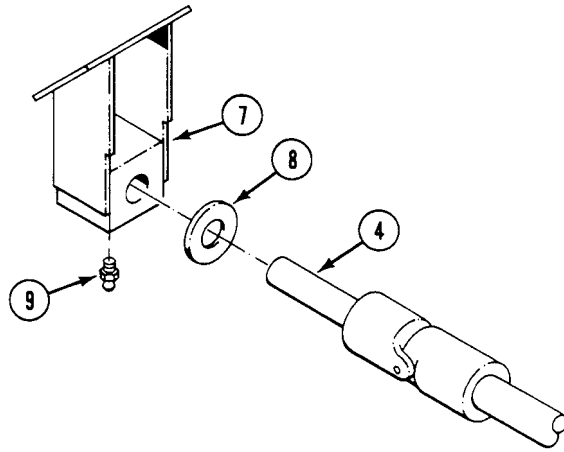


8. REMOVE FOUR SCREWS (21), WASHERS (22), AND LOCKWASHERS (23) THAT SECURE BRACKET (24) AND SHAFT TO BULKHEAD. REMOVE BRACKET WITH SHAFT. DISCARD LOCKWASHERS.
9. REMOVE LOCKNUT (1) ON SCREW (2) THAT SECURES ARM (3) ON SHAFT (4). REMOVE ARM. DISCARD LOCKNUT.

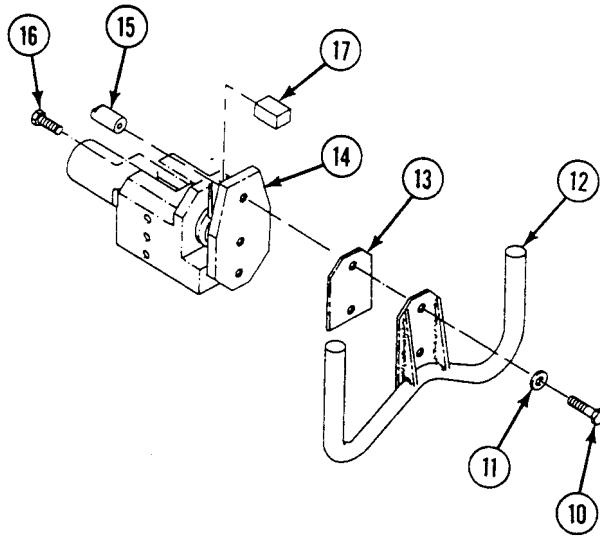


10. REMOVE WOODRUFF KEY (5) AND WASHER (6) FROM SHAFT (4).

11. REMOVE SHAFT (4) FROM BRACKET (7).

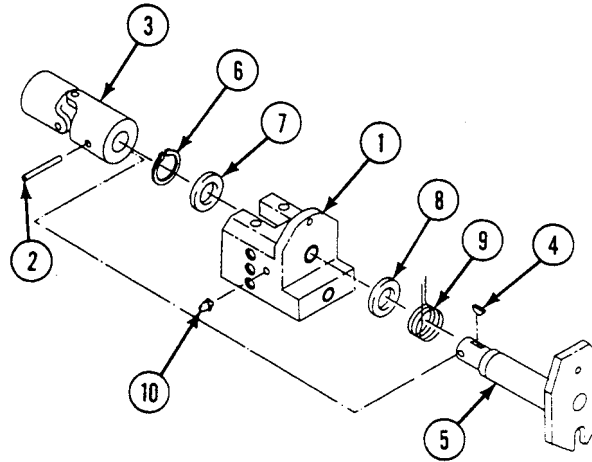


12. REMOVE WASHER (8) FROM SHAFT (4).
13. REMOVE LUBE FITTING (9) FROM BRACKET (7).
14. REMOVE TWO SCREWS (10) AND WASHERS (11) THAT SECURE STEERING WHEEL (12) AND SPACER (13) TO SHAFT (14). REMOVE RETAINER (15).



15. REMOVE SCREW (16) AND NUT (17).

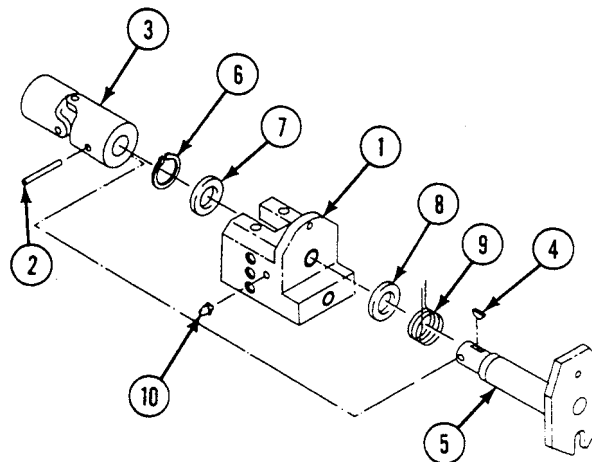
16. PLACE HOUSING (1) IN VISE AND DRIVE SPRING PIN (2) FROM U-JOINT (3). DISCARD SPRING PIN.



17. REMOVE U-JOINT (3) AND WOODRUFF KEY (4) FROM SHAFT (5).  
 18. REMOVE RETAINING RING (6) AND WASHER (7) FROM SHAFT (5). DISCARD RETAINING RING.  
 19. REMOVE SHAFT (5) FROM HOUSING (1).  
 20. REMOVE WASHER (8) AND SPRING (9) FROM SHAFT (5).  
 21. REMOVE LUBE FITTING (10) FROM HOUSING (1).

**INSTALLATION**

1. INSTALL LUBE FITTING (10) ON HOUSING (1).



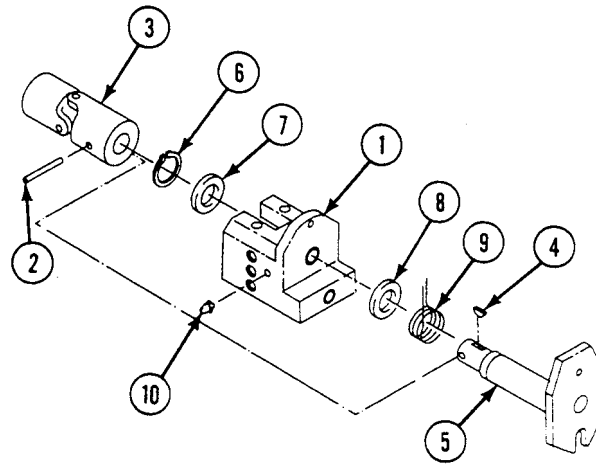
2. INSTALL SPRING (9) AND WASHER (8) ON SHAFT (5).  
 3. INSTALL SHAFT (5) IN HOUSING (1).

**NOTE**

**Make sure retaining ring seats in groove on shaft.**

4. INSTALL WASHER (7) AND NEW RETAINING RING (6) ON SHAFT (5).

5. INSTALL WOODRUFF KEY (4) ON SHAFT (5).

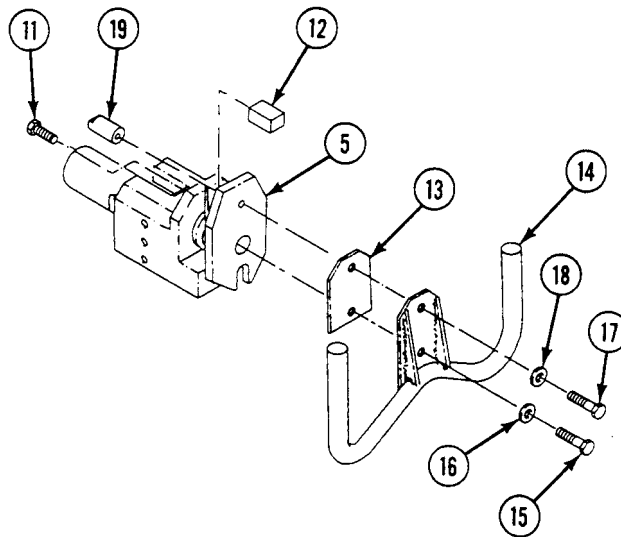


6. INSTALL SHAFT (5) IN U-JOINT (3). SECURE WITH NEW SPRING PIN (2).

**NOTE**

**Make sure nut is between spring fingers and is properly leveled when installed on housing.**

7. INSTALL SCREW (11) AND NUT (12).



8. INSTALL SPACER (13) AND STEERING WHEEL (14) ON SHAFT (5). SECURE WITH SCREW (15) AND WASHER (16).

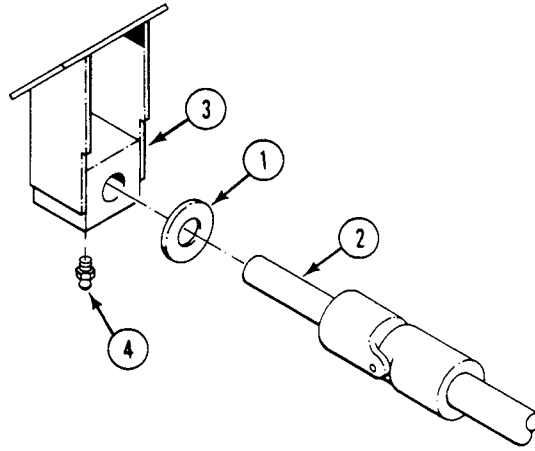
**NOTE**

**When installing retainer, install as high as possible on steering wheel shaft.**

9. INSTALL SCREW (17) AND WASHER (18) THROUGH STEERING WHEEL (14) AND SPACER (13) AND SECURE RETAINER (19).

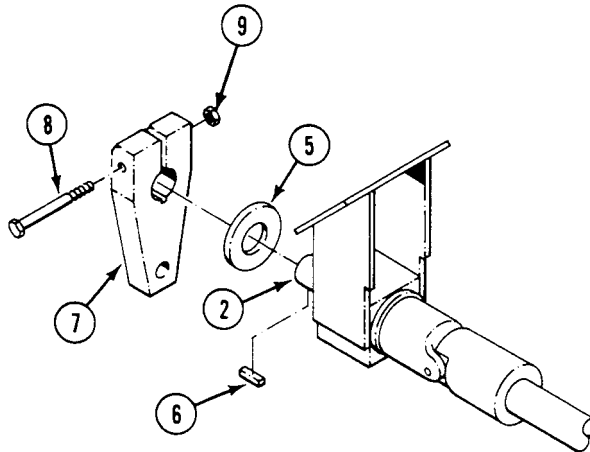
10. CHECK STEERING WHEEL (14) FOR SMOOTH OPERATION BY TURNING FULLY IN BOTH DIRECTIONS.

11. INSTALL WASHER (1) ON SHAFT (2) AND INSERT SHAFT THROUGH BRACKET (3).



12. INSTALL LUBE FITTING (4) IN BRACKET (3).

13. INSTALL WASHER (5) ON SHAFT (2).



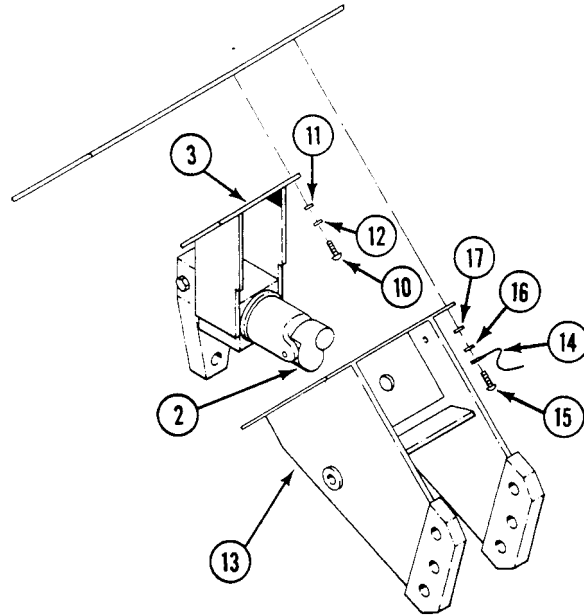
14. INSTALL WOODRUFF KEY (6) ON SHAFT (2).

**NOTE**

**When installing arm on shaft, make sure chamfered edge on arm faces front of vehicle.**

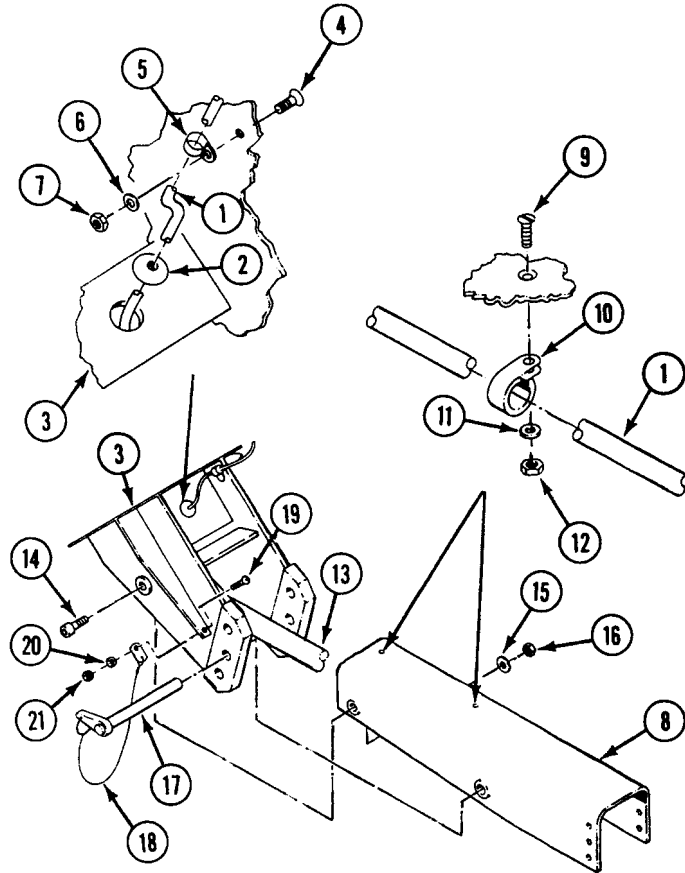
15. INSTALL ARM (7) ON SHAFT (2) AND SECURE WITH SCREW (8) AND NEW LOCKNUT (9). TIGHTEN LOCKNUT TO 17–20 LB-FT (23–27 N·m) TORQUE.

16. INSTALL FOUR SCREWS (10), WASHERS (11), AND NEW LOCKWASHERS (12) AND SECURE BRACKET (3) WITH SHAFT (2) TO BULKHEAD.



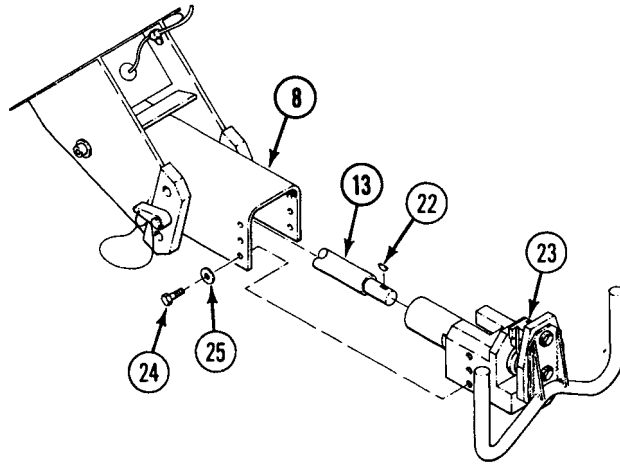
17. GUIDE SHAFT (2) THROUGH BRACKET (13). SECURE BRACKET AND GROUND LEAD (14) TO BULKHEAD WITH SIX SCREWS (15), NEW LOCKWASHERS (16), AND WASHERS (17).

18. INSTALL CABLE (1) AND NEW GROMMET (2) IN BRACKET (3). SECURE CABLE TO BRACKET WITH SCREW (4), CLAMP (5), WASHER (6), AND NUT (7).



19. INSTALL CABLE (1) IN SUPPORT (8) AND SECURE WITH TWO SCREWS (9), CLAMPS (10), WASHERS (11), AND NUTS (12).
20. GUIDE SHAFT (13) THROUGH SUPPORT (8), AND INSTALL SUPPORT (8) ON BRACKET (3). SECURE WITH TWO SCREWS (14), WASHERS (15), AND NEW LOCKNUTS (16).
21. INSTALL PIN (17) THROUGH BRACKET (3) AND SUPPORT (8). SECURE SUPPORT IN THE UPPER POSITION ON THE BRACKET.
22. INSTALL LANYARD (18) ON BRACKET (3) AND SECURE WITH SCREW (19), WASHER (20), AND NUT (21).

23. INSTALL WOODRUFF KEY (22) ON SHAFT (13).



24. ALIGN WOODRUFF KEY (22) AND INSTALL STEERING WHEEL ASSEMBLY (23) ON SHAFT (13).
25. SECURE STEERING WHEEL ASSEMBLY (23) IN SUPPORT (8) WITH SIX SCREWS (24) AND WASHERS (25).
26. INSTALL AND ADJUST CONTROL ASSEMBLY/BRACKET (WP 0266 00).
27. INSTALL STEERING WHEEL LINKAGE (WP 0306 00).

**END OF TASK**



---

**REPLACE QUICK-RELEASE PIN AND LANYARD**

---

**0305 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0305 00-1).  
 Installation (page 0305 00-1).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

Locknut

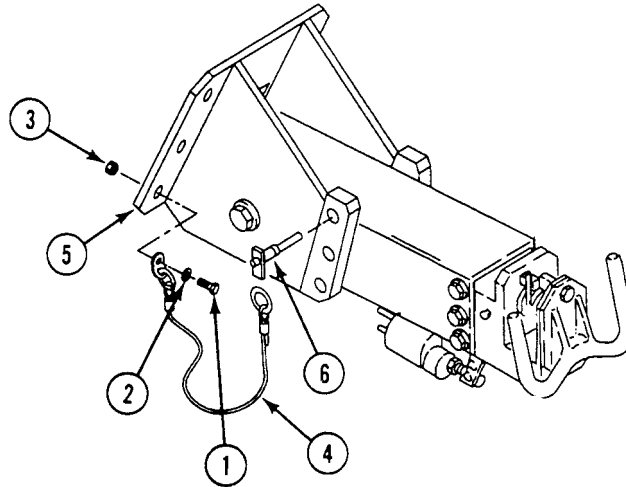
Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)

---

**REMOVAL**

1. REMOVE SCREW (1), WASHER (2), LOCKNUT (3), AND LANYARD (4) FROM BRACKET (5). DISCARD LOCKNUT.
2. REMOVE QUICK-RELEASE PIN (6) FROM BRACKET (5).
3. REMOVE LANYARD (4) FROM QUICK-RELEASE PIN (6).



**INSTALLATION**

1. INSTALL LANYARD (4) ON QUICK-RELEASE PIN (6). INSERT PIN (6) IN BRACKET (5) AND SUPPORT.
2. INSTALL LANYARD (4), WASHER (2), SCREW (1), AND NEW LOCKNUT (3) IN BRACKET (5).

**END OF TASK**



**REPLACE STEERING WHEEL LINKAGE**

**0306 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0306 00-1).
- Installation (page 0306 00-6).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Torque wrench (WP 0397 00, Item 83)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Driver's power plant access panel removed (TM 9-2350-366-10-1)
- Front power plant access doors removed (TM 9-2350-366-10-1)

Materials/Parts

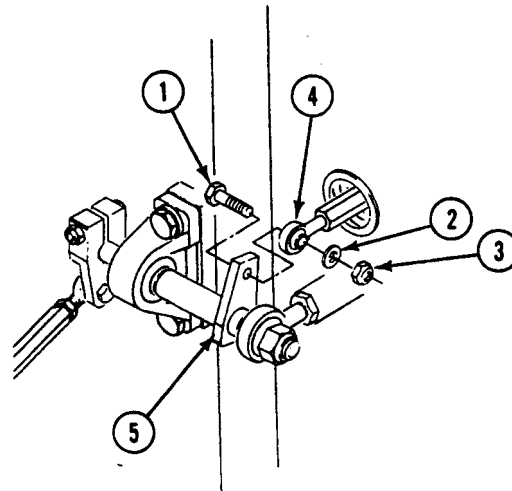
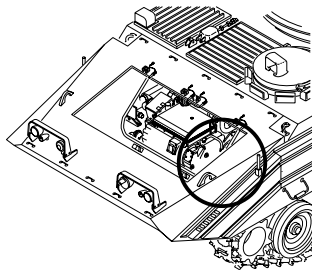
- Locknut (6)
- Lockwasher (2)

Personnel Required

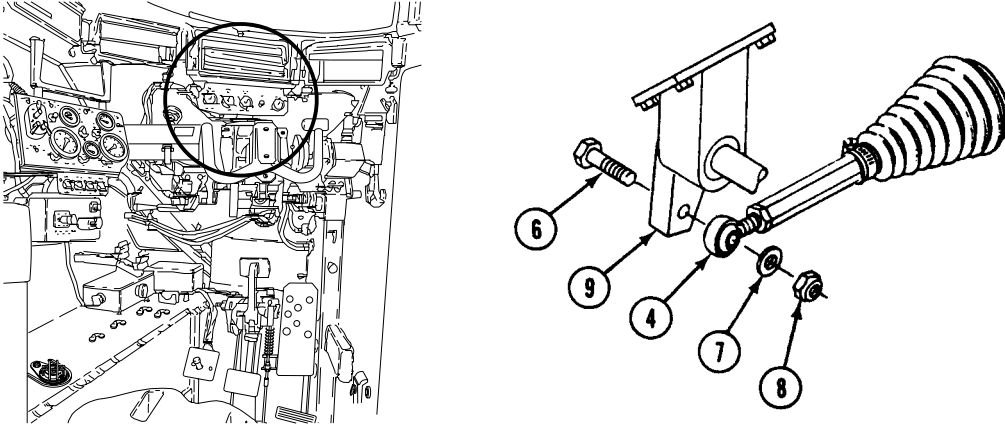
Unit Mechanic 63T10

**REMOVAL**

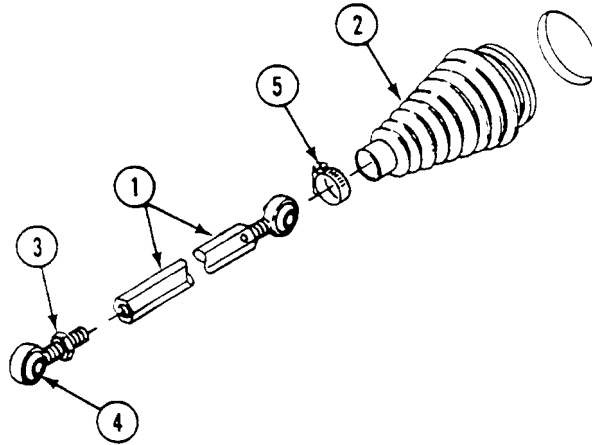
1. REMOVE SCREW (1), WASHER (2), AND LOCKNUT (3) THAT SECURE LINK (4) TO ARM (5). DISCARD LOCKNUT.



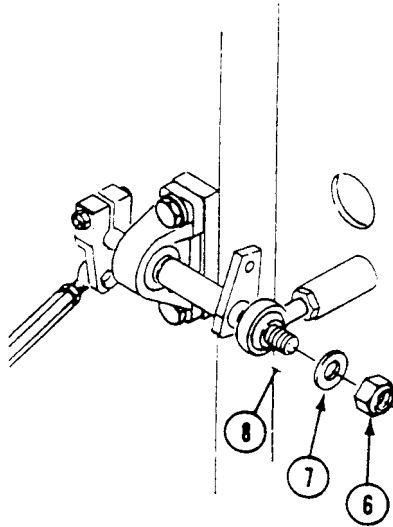
2. REMOVE SCREW (6), WASHER (7), AND LOCKNUT (8) THAT SECURE LINK (4) TO ARM (9). DISCARD LOCKNUT.



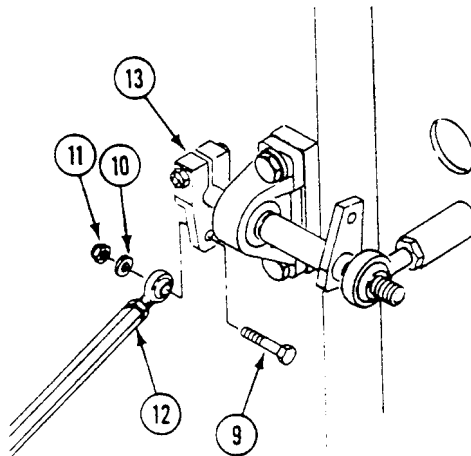
3. REMOVE LINK (1) WITH BELLOWS (2) FROM HULL.
4. LOOSEN NUT (3) ON LINK (1). REMOVE BEARING (4) WITH NUT FROM LINK.
5. LOOSEN CLAMP (5) AND SLIDE BELLOWS (2) AND CLAMP (5) OFF LINK (1).



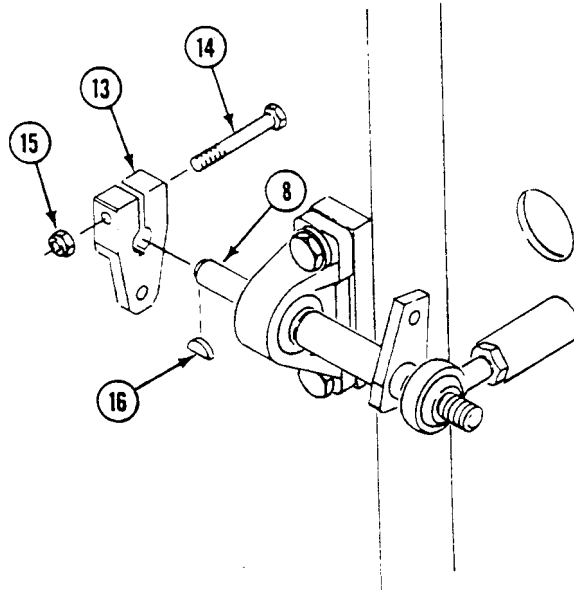
6. REMOVE LOCKNUT (6) AND WASHER (7) FROM END OF SHAFT (8). DISCARD LOCKNUT.



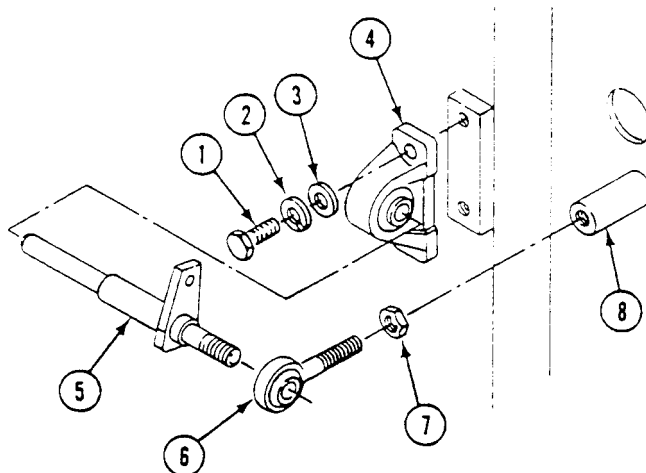
7. REMOVE SCREW (9), WASHER (10), AND LOCKNUT (11) THAT SECURE LINK (12) TO ARM (13). DISCARD LOCKNUT.



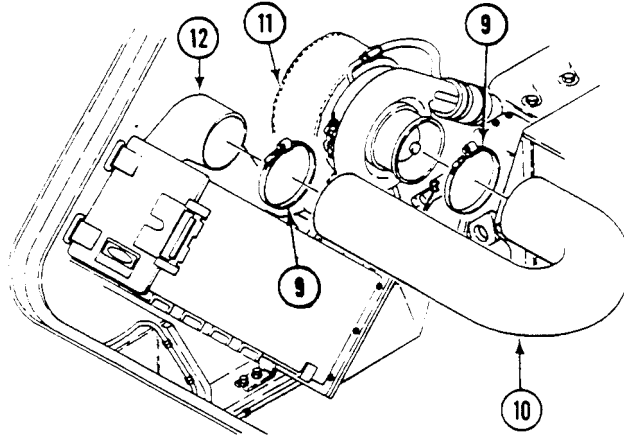
8. REMOVE SCREW (14) AND LOCKNUT (15) THAT SECURE ARM (13) TO SHAFT (8). REMOVE ARM. DISCARD LOCKNUT.
9. REMOVE KEY (16) FROM SHAFT (8).



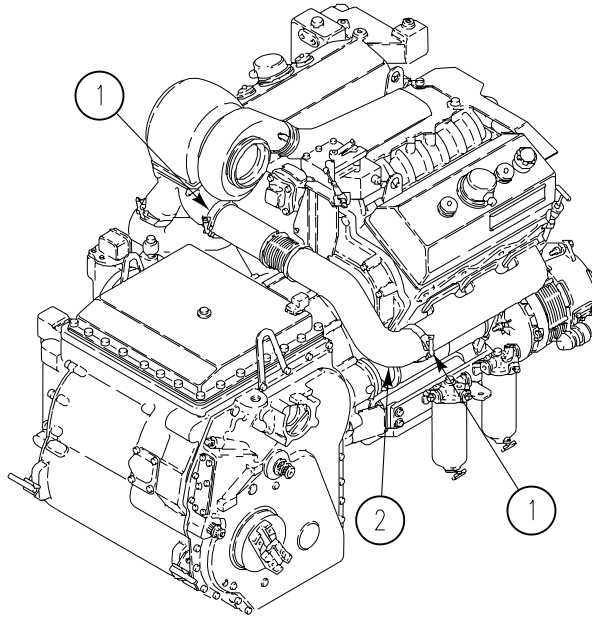
10. REMOVE TWO SCREWS (1), TWO LOCKWASHERS (2), AND TWO WASHERS (3) THAT SECURE BEARING (4) TO BULKHEAD. DISCARD LOCKWASHERS.
11. REMOVE BEARING (4) FROM SHAFT (5).
12. REMOVE SHAFT (5) FROM BEARING (6).
13. LOOSEN NUT (7) THAT SECURES BEARING (6) TO BULKHEAD.
14. REMOVE BEARING (6) FROM MOUNT (8) IN BULKHEAD.



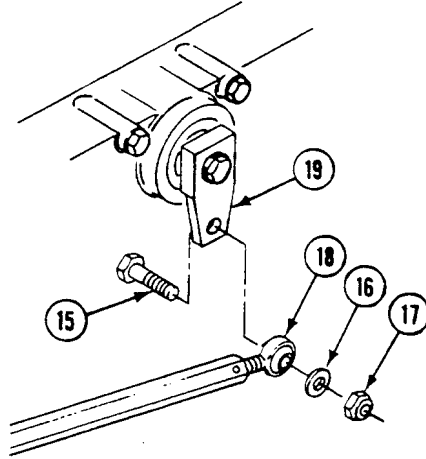
15. LOOSEN TWO CLAMPS (9) AND REMOVE HOSE (10) BETWEEN TURBOCHARGER (11) AND AIR CLEANER HOUSING (12).



16. LOOSEN TWO CLAMPS (1) THAT SECURE EXHAUST ELBOW (2) ON ENGINE. REMOVE EXHAUST ELBOW.

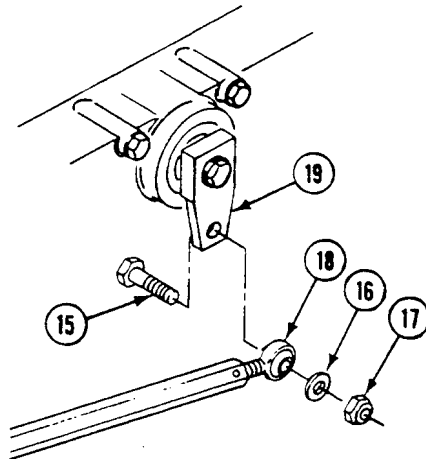


17. REMOVE SCREW (15), WASHER (16), AND LOCKNUT (17) THAT SECURE LINK (18) TO ARM (19) ON TRANSMISSION. REMOVE LINK. DISCARD LOCKNUT.



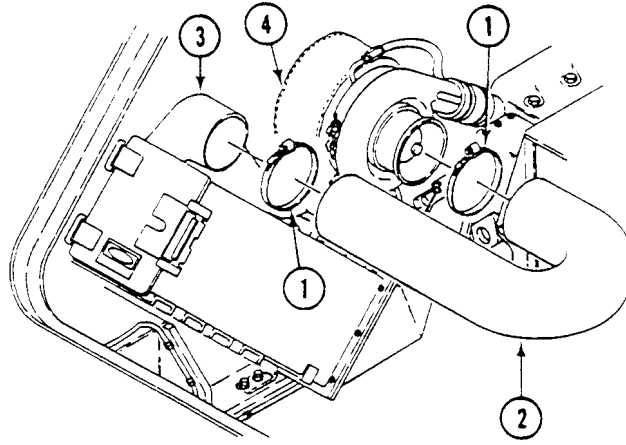
#### INSTALLATION

1. SECURE LINK (18) WITH SCREW (15), WASHER (16), AND NEW LOCKNUT (17) TO ARM (19) ON TRANSMISSION.

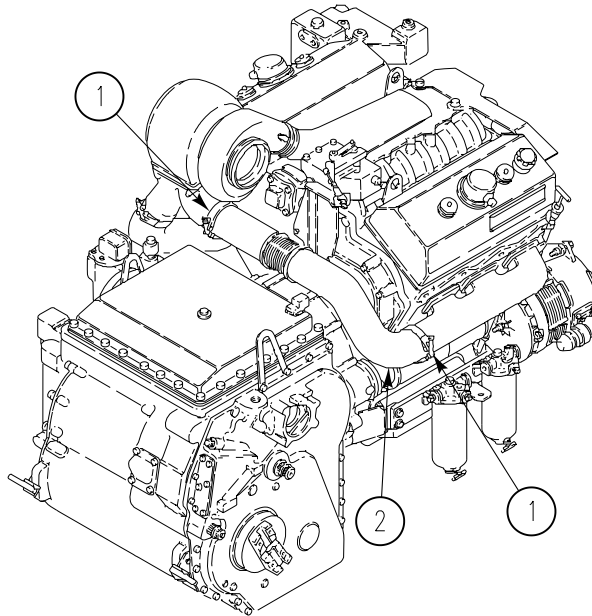




2. INSTALL TWO CLAMPS (1) AND HOSE (2) BETWEEN AIR CLEANER HOUSING (3) AND TURBOCHARGER (4). TIGHTEN CLAMPS.



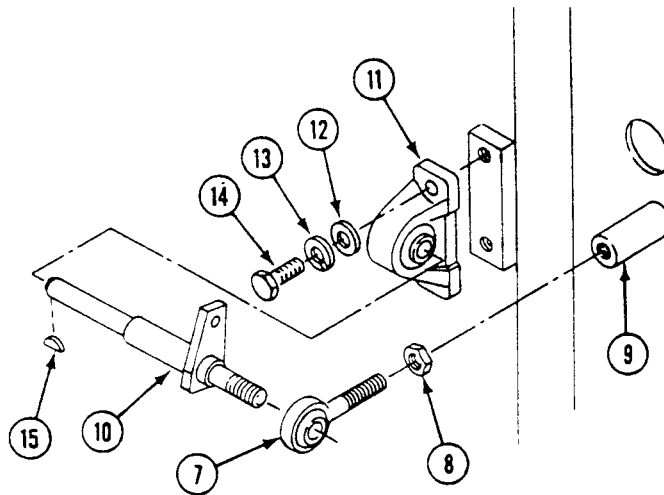
3. SECURE EXHAUST ELBOW (2) ON ENGINE WITH TWO CLAMPS (1). TIGHTEN CLAMPS.



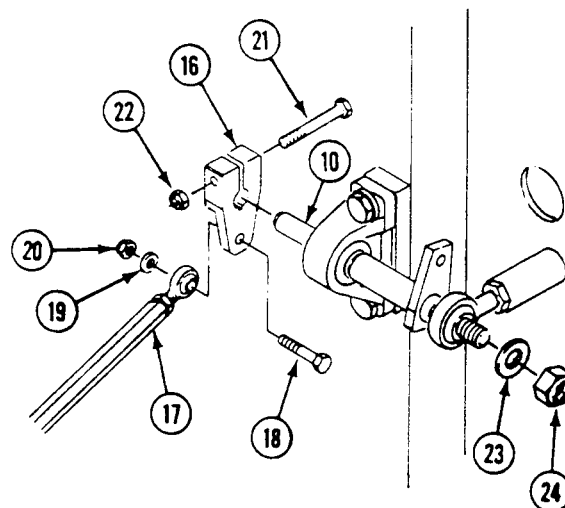
REPLACE STEERING WHEEL LINKAGE — Continued

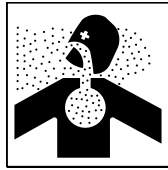
0306 00

4. INSTALL BEARING (7) WITH NUT (8) IN MOUNT (9) ON BULKHEAD.
5. TIGHTEN NUT (8) ON BEARING (7).
6. INSTALL SHAFT (10) INTO BEARING (7).
7. INSTALL OTHER END OF SHAFT (10) INTO BEARING (11).
8. SECURE BEARING (11) TO BULKHEAD WITH TWO WASHERS (12), NEW LOCKWASHERS (13), AND SCREWS (14).
9. INSTALL KEY (15) ON SHAFT (10).



10. INSTALL ARM (16) ON SHAFT (10). ALIGN ARM WITH LINK (17). SECURE LINK ON ARM WITH SCREW (18), WASHER (19), AND NEW LOCKNUT (20). SECURE ARM (16) WITH SCREW (21) AND NEW LOCKNUT (22). TIGHTEN LOCKNUT TO 17-20 LB-FT (23-27 N·M) TORQUE.
11. INSTALL WASHER (23) AND NEW LOCKNUT (24) ON END OF SHAFT (10).



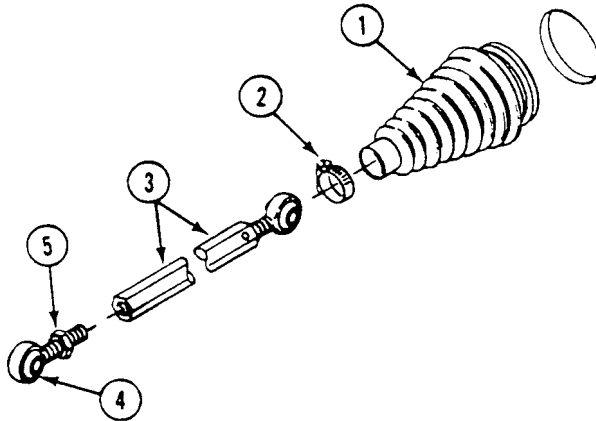
**WARNING**

Engine exhaust gas is deadly poison. Make sure the bellows is installed properly in engine compartment panel hole.

**NOTE**

Position small end of bellows away from fixed rod end bearing.

12. SLIDE BELLOWS (1) AND CLAMP (2) OVER LINK (3). DO NOT TIGHTEN CLAMP UNTIL LINK AND BELLOWS ARE INSTALLED.
13. INSTALL BEARING (4) AND NUT (5) ON LINK (3). TIGHTEN NUT.
14. POSITION LINK (3) WITH BELLOWS (1) BETWEEN ENGINE COMPARTMENT AND DRIVER'S COMPARTMENT.

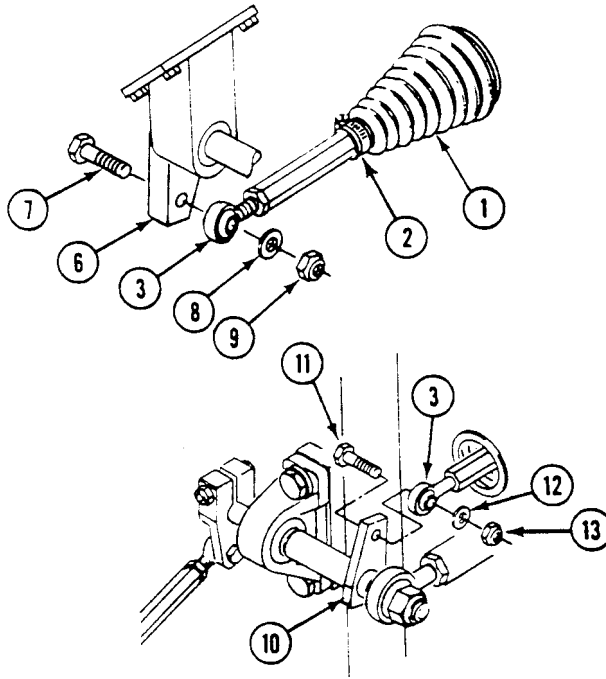


15. SECURE LINK (3) TO ARM (6) WITH SCREW (7), WASHER (8), AND NEW LOCKNUT (9).
16. SECURE OTHER END OF LINK (3) TO ARM (10) WITH SCREW (11), WASHER (12), AND NEW LOCKNUT (13).

**NOTE**

**Make sure bellows is correctly installed and seated in hull bulkhead. The bellows keeps engine compartment fumes and/or noise from entering the driver's compartment.**

17. INSTALL BELLOWS (1) IN DRIVER'S BULKHEAD. SECURE SMALL END OF BELLOWS WITH CLAMP (2).



18. ADJUST STEERING LINKAGE (WP 0302 00).
19. INSTALL DRIVER'S POWER PLANT ACCESS PANEL. See TM 9-2350-366-10-1.
20. INSTALL FRONT POWER PLANT ACCESS DOORS. See TM 9-2350-366-10-1.

**END OF TASK**

CHAPTER 27

UNIT MAINTENANCE INSTRUCTIONS  
FOR HULL ACCESS COVERS AND DOORS

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**WORK PACKAGE INDEX**

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| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| REMOVE/REPLACE VISMOD ACCESS DOORS.....               | 0307 00             |
| REMOVE/REPLACE ENGINE ACCESS COVER PLATE.....         | 0308 00             |
| REPAIR/REPLACE POWER PLANT REAR ACCESS PANELS.....    | 0309 00             |
| REMOVE/INSTALL FAN DRIVE PULLEY ACCESS COVER.....     | 0310 00             |
| REPLACE RADIATOR ACCESS DOOR.....                     | 0311 00             |
| REPLACE DRIVER'S POWER PLANT ACCESS PANEL.....        | 0312 00             |
| REMOVE/INSTALL HULL NOSE ASSEMBLY.....                | 0313 00             |
| REMOVE/REPLACE VISMOD PANEL, LEFT AND RIGHT SIDE..... | 0314 00             |
| REPLACE HULL FRONT ACCESS COVER.....                  | 0315 00             |
| REPLACE POWER PLANT BOTTOM ACCESS COVER.....          | 0316 00             |



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**REMOVE/REPLACE VISMOD ACCESS DOORS**

---

**0307 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0307 00-2).  
Installation (page 0307 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Personnel Required

Unit Mechanic 63T10  
Helper (H)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
Vehicle blocked (TM 9-2350-366-10-1)

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## REMOVAL

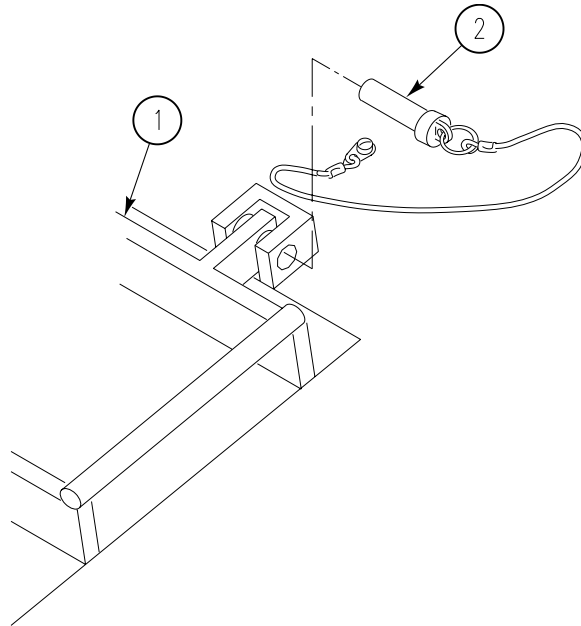
**WARNING**

Outside doors are extremely bulky and require two people to remove safely. Exercise care around door opening to avoid falling or injury.

**CAUTION**

Do not lay outside doors over carrier intake grille if engine will be operated. This could reduce airflow and overheat engine.

1. REMOVE FOUR PINS (2) FROM VISMOD ACCESS DOOR (1).





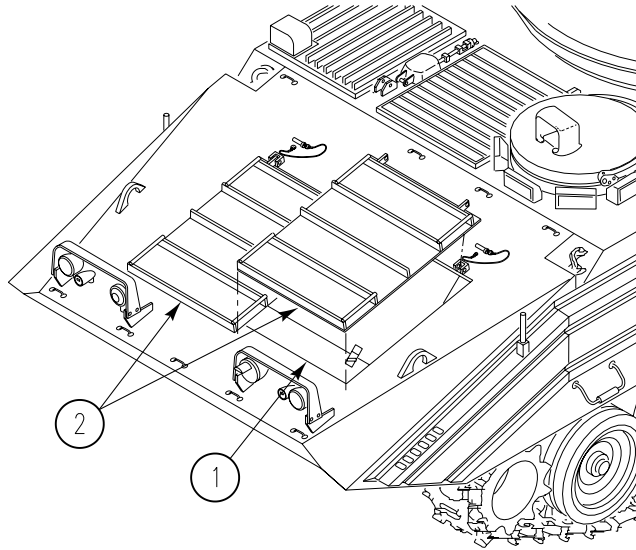
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**REMOVE/REPLACE VISMOD ACCESS DOORS — Continued**

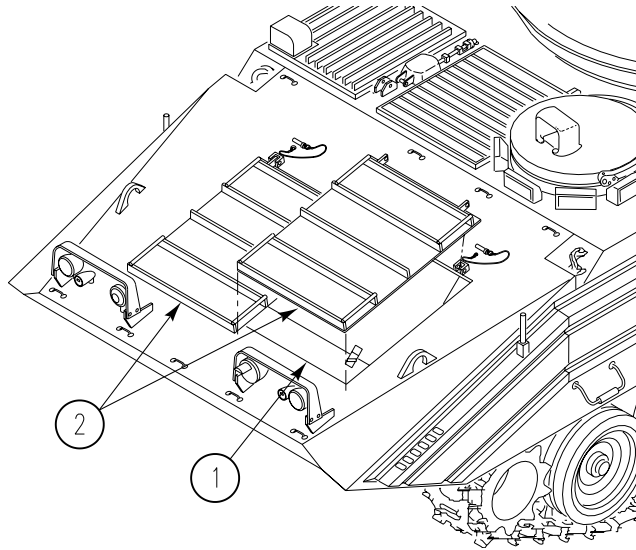
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0307 00

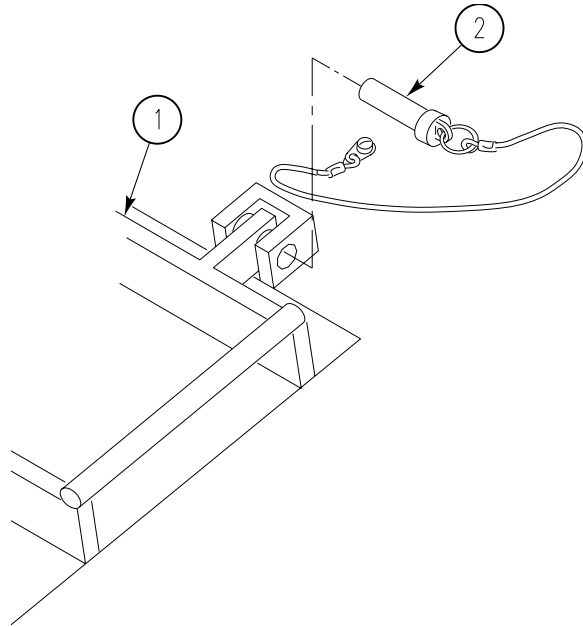
2. REMOVE TWO VISMOD ACCESS DOORS (2) FROM VISMOD ASSEMBLY (1). HAVE HELPER ASSIST.

**INSTALLATION**

1. PLACE TWO VISMOD ACCESS DOORS (2) ON VISMOD ASSEMBLY (1). HAVE HELPER ASSIST.



2. INSTALL FOUR PINS (2) TO SECURE VISMOD ACCESS DOORS (1).



END OF TASK

**REMOVE/REPLACE ENGINE ACCESS COVER PLATE**

**0308 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0308 00-1).  
 Installation (page 0308 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10  
 Helper (H)

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

Adhesive (WP 0399 00, Item 5)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Carrier blocked (TM 9-2350-366-10-1)  
 VISMOD access doors removed (WP 0307 00)

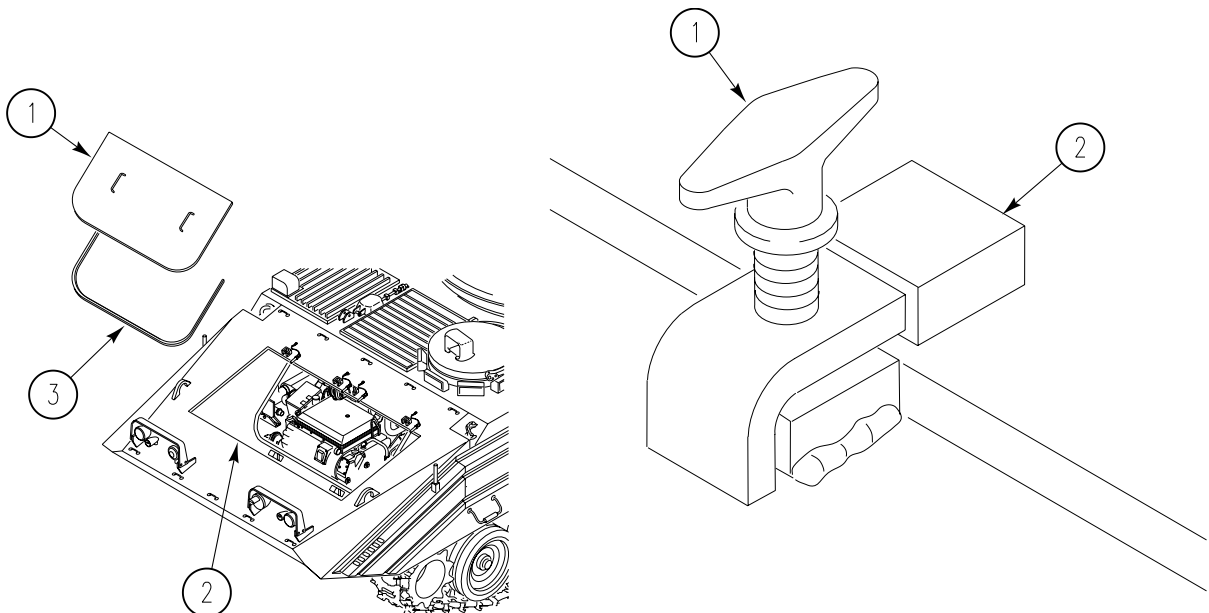
**REMOVAL**

1. LOOSEN THREE WING NUTS (1) SECURING ENGINE ACCESS COVER BRACKETS (2).
2. TURN ENGINE ACCESS COVER BRACKETS (2) HORIZONTALLY.
3. REMOVE ENGINE ACCESS COVER PLATE (1) FROM CARRIER (2).

**NOTE**

**Do Step 4 only if gasket is damaged.**

4. REMOVE GASKET (3) FROM ENGINE ACCESS COVER PLATE (1). DISCARD GASKET.

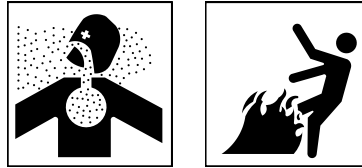


## INSTALLATION

**NOTE**

Do Step 1 and Step 2 only if gasket is being replaced.

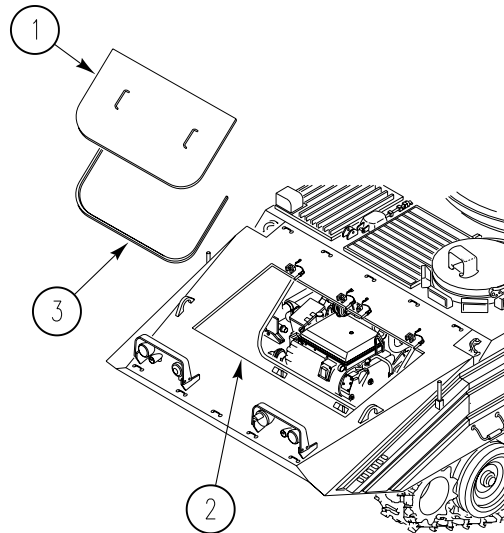
1. SCRAPE ADHESIVE FROM ENGINE ACCESS COVER PLATE (1).

**WARNING**

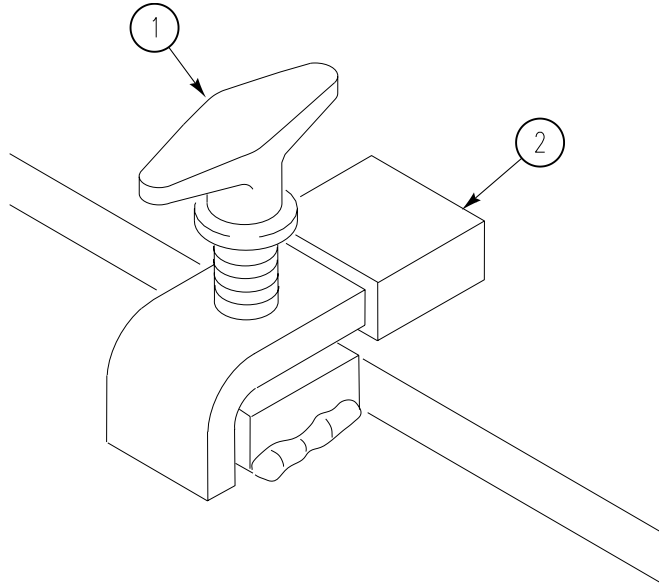
Adhesive, primer, sealant compounds, and isopropyl alcohol are toxic and flammable. These compounds are toxic to eyes, skin, and respiratory tract. Continued exposure can make you dizzy and irritate your eyes and throat.

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.

2. APPLY ADHESIVE TO INSIDE EDGE OF ENGINE ACCESS COVER PLATE (1) AND INSTALL NEW GASKET (3).
3. PLACE ENGINE ACCESS COVER PLATE (1) ON CARRIER (2).



4. TURN ENGINE ACCESS COVER BRACKETS (2) VERTICALLY.
5. TIGHTEN FOUR WING NUTS (1) TO SECURE ENGINE ACCESS COVER BRACKETS (2).



6. INSTALL VISMOD ACCESS DOORS (WP 0307 00).

**END OF TASK**



**REPAIR/REPLACE POWER PLANT REAR ACCESS PANELS**

**0309 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0309 00-1).  
 Installation (page 0309 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Personnel heater duct removed (WP 0369 00)  
 Turret rotated to 3200 mils (TM 9-2350-366-10-2)

Materials/Parts

Cotter pin (7)  
 Locknut (6)

Personnel Required

Unit Mechanic 63T10

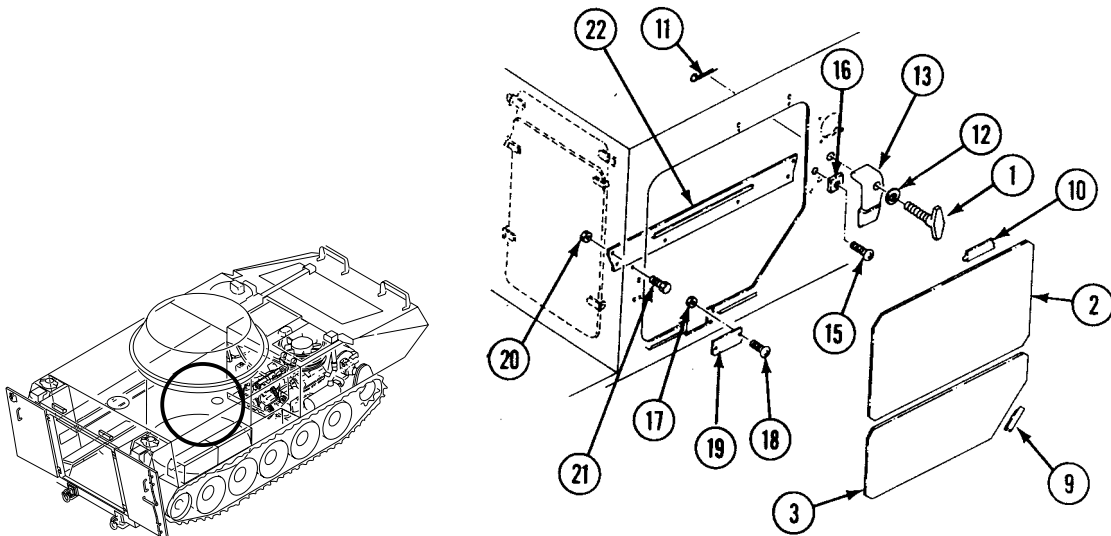
**REMOVAL**

1. UNSCREW SEVEN T-BOLTS (1) AND REMOVE UPPER AND LOWER PANELS (2)(3).

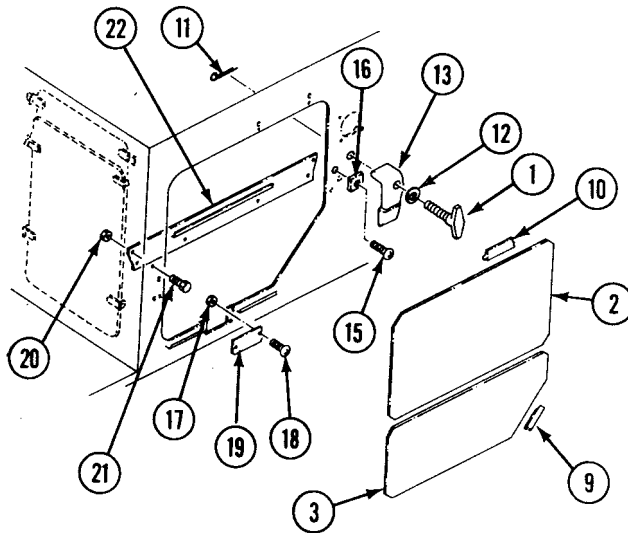
**NOTE**

**Remove seals only if damaged.**

2. BEND BACK SEAL SUPPORTS ON PANEL TO REMOVE SEALS (9) AND (10).
3. REMOVE SEVEN COTTER PINS (11), T-BOLTS (1), WASHERS (12), AND CLAMPS (13) FROM HULL. DISCARD COTTER PINS.



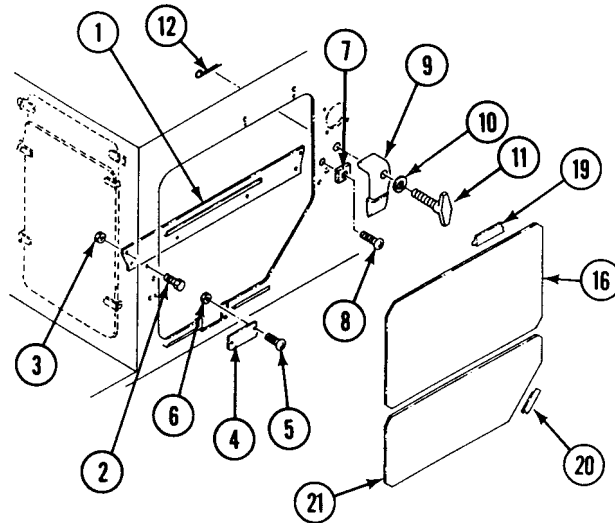
- REMOVE SEVEN SCREWS (15) AND SPACERS (16) FROM HULL.



- REMOVE TWO LOCKNUTS (17), SCREWS (18), AND COVER (19) FROM HULL. DISCARD LOCKNUTS.
- REMOVE FOUR LOCKNUTS (20), SCREWS (21), AND SUPPORT (22) FROM HULL. DISCARD LOCKNUTS.

**INSTALLATION**

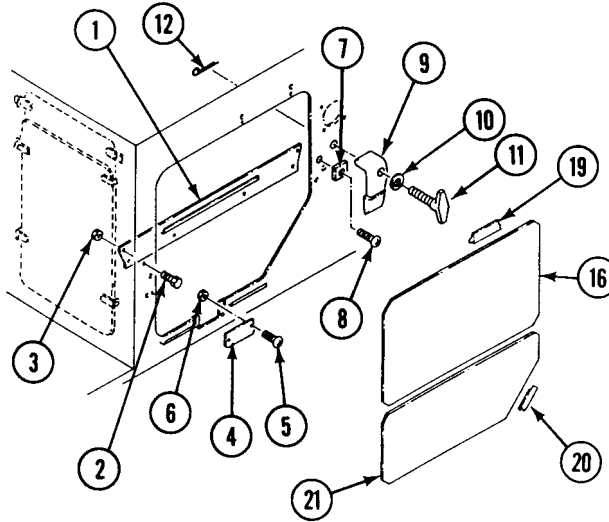
- INSTALL SUPPORT (1) ON HULL. SECURE WITH FOUR SCREWS (2) AND NEW LOCKNUTS (3).



- INSTALL COVER (4) ON HULL. SECURE WITH TWO SCREWS (5) AND NEW LOCKNUTS (6).
- INSTALL SEVEN SPACERS (7) ON HULL. SECURE WITH SEVEN SCREWS (8).
- INSTALL SEVEN CLAMPS (9), WASHERS (10), T-BOLTS (11), AND NEW COTTER PINS (12) IN HULL.
- IF REMOVED, INSTALL NEW SEALS (19) AND (20) ON PANELS (16) AND (21). BEND SEAL SUPPORTS TO SECURE SEALS TO PANELS.



6. INSTALL PANELS (16) AND (21) ON HULL. TIGHTEN SEVEN CLAMPS (9) AND T-BOLTS (11).



7. MAKE SURE PANEL SECURELY SEALS HULL OPENING TO PREVENT CARBON MONOXIDE LEAKS.
8. TRAVERSE TURRET TO 6400 MILS OR AS NEEDED. See TM 9-2350-366-10-2.
9. INSTALL PERSONNEL HEATER DUCT (WP 0369 00).
10. START ENGINE. See TM 9-2350-366-10-1.
11. CHECK FOR EXHAUST LEAKS AROUND PANEL SEALS.
12. STOP ENGINE. See TM 9-2350-366-10-1.

**END OF TASK**



**REMOVE/INSTALL FAN DRIVE PULLEY ACCESS COVER**

**0310 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0310 00-1).  
 Installation (page 0310 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Turret rotated to 3200 mils (TM 9-2350-366-10-2)  
 Power plant upper rear access panel removed  
 (TM 9-2350-366-10-1)

Materials/Parts

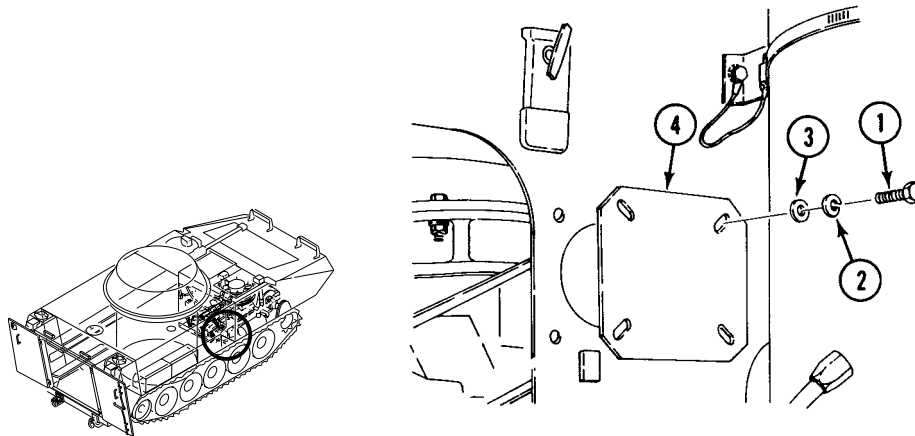
Lockwasher (4)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. REMOVE FOUR SCREWS (1), LOCKWASHERS (2), WASHERS (3), AND ACCESS COVER (4) FROM POWER PLANT COMPARTMENT REAR BULKHEAD. DISCARD LOCKWASHERS.



**INSTALLATION**

1. INSTALL ACCESS COVER (4) ON POWER PLANT COMPARTMENT REAR BULKHEAD WITH FOUR WASHERS (3), NEW LOCKWASHERS (2), AND SCREWS (1).
2. INSTALL POWER PLANT UPPER REAR ACCESS PANEL. See TM 9-2350-366-10-1.
3. ROTATE TURRET TO 6400 MILS. See TM 9-2350-366-10-2.

**END OF TASK**



**REPLACE RADIATOR ACCESS DOOR**

**0311 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0311 00-1).  
 Installation (page 0311 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

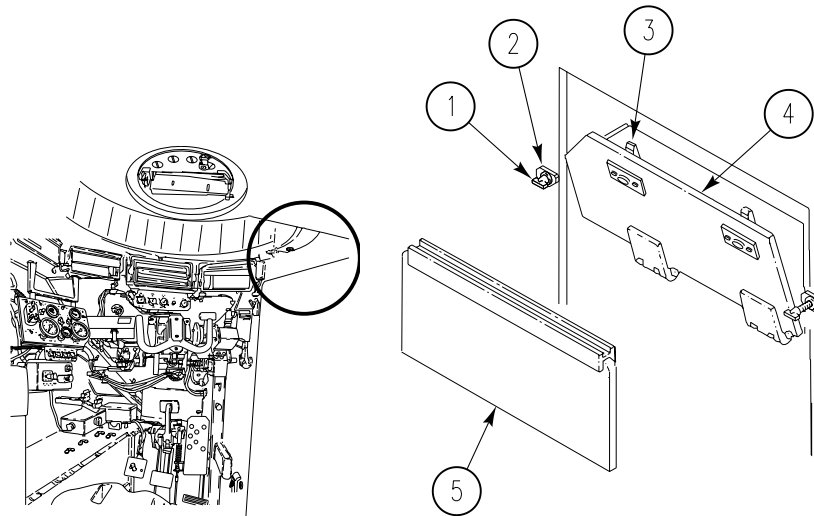
Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Driver's power plant access panel removed  
 (WP 0312 00)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. LOOSEN TWO T-BOLTS (1), CLAMPS (2), AND REMOVE RADIATOR ACCESS PANEL (5) FROM POWER PLANT COMPARTMENT BULKHEAD.
2. RELEASE TWO FASTENERS (3) ON ACCESS DOOR (4) AND REMOVE ACCESS DOOR.



**INSTALLATION**

1. INSTALL RADIATOR ACCESS DOOR (4) AND TIGHTEN TWO FASTENERS (3).
2. INSTALL RADIATOR ACCESS PANEL (5) ON POWER PLANT COMPARTMENT BULKHEAD WITH TWO CLAMPS (2) AND T-BOLTS (1).
3. INSTALL DRIVER'S POWER PLANT ACCESS PANEL (WP 0312 00).

**END OF TASK**



**REPLACE DRIVER'S POWER PLANT ACCESS PANEL**

**0312 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0312 00-1).  
 Installation (page 0312 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Materials/Parts

Cotter pin (4)

Personnel Required

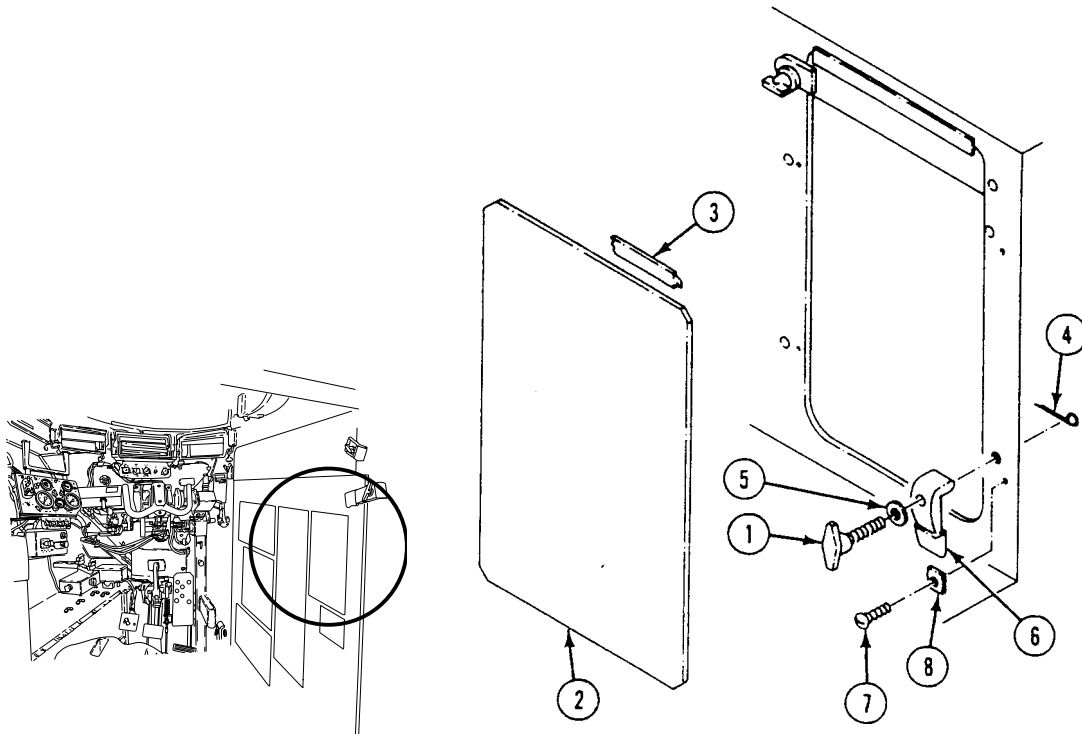
Unit Mechanic 63T10

**REMOVAL**

**NOTE**

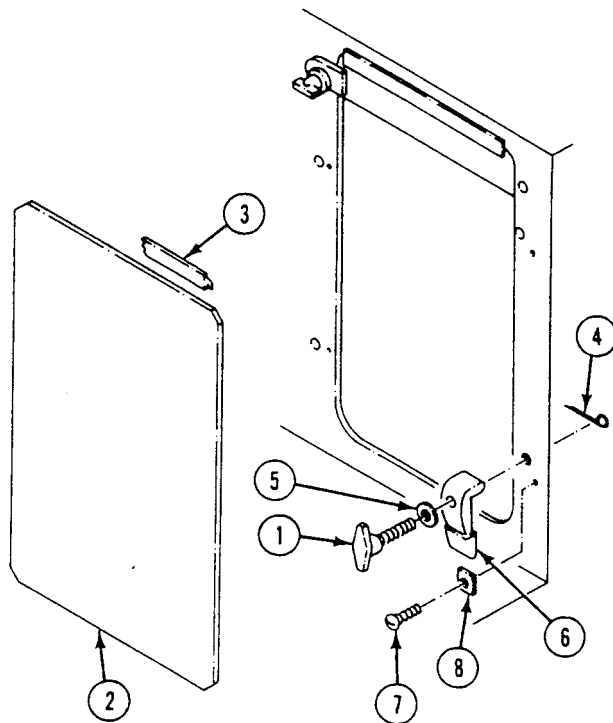
If decals and data plates on panel need to be replaced, see WP 0105 00.

1. UNSCREW FOUR T-BOLTS (1) AND REMOVE DRIVER'S ACCESS PANEL (2) FROM HULL.



**NOTE****Remove seal only if damaged.**

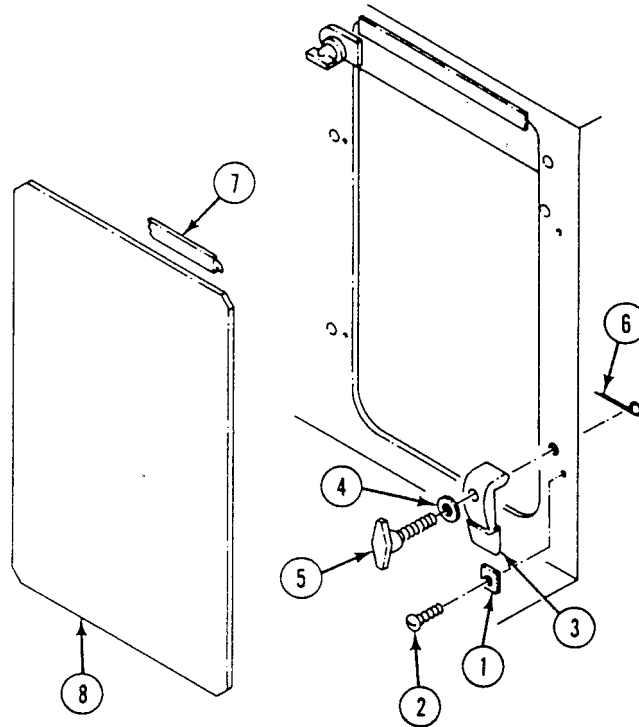
2. BEND BACK SEAL SUPPORT TO REMOVE SEAL (3).
3. REMOVE FOUR COTTER PINS (4), T-BOLTS (1), WASHERS (5), AND CLAMPS (6) FROM HULL. DISCARD COTTER PINS.
4. REMOVE FOUR SCREWS (7) AND SPACERS (8) FROM HULL.





**INSTALLATION**

1. INSTALL FOUR SPACERS (1) ON HULL WITH FOUR SCREWS (2).
2. INSTALL FOUR CLAMPS (3), WASHERS (4), T-BOLTS (5), AND NEW COTTER PINS (6).
3. IF NEW SEAL (7) IS NEEDED, INSTALL ON PANEL (8). BEND SUPPORT TO SECURE SEAL TO PANEL.
4. INSTALL DRIVER'S ACCESS PANEL (8) IN HULL AND TIGHTEN FOUR T-BOLTS (5) AND CLAMPS (3).



5. START ENGINE. See TM 9-2350-366-10-1.
6. CHECK FOR EXHAUST LEAKS AROUND PANEL SEALS.
7. STOP ENGINE. See TM 9-2350-366-10-1.

**END OF TASK**



**REMOVE/INSTALL HULL NOSE ASSEMBLY**

**0313 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0313 00-1).  
 Installation (page 0313 00-5).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Torque wrench, 3/4 inch drive, 0-600 ft-lb (WP 0397 00, Item 84)  
 Torque wrench, 3/8 inch, 15-75 ft-lb (WP 0397 00, Item 80)  
 Lifting device (2000 lb capacity)  
 Lifting sling

Equipment Condition

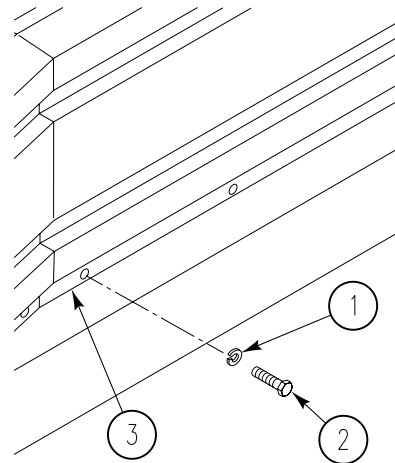
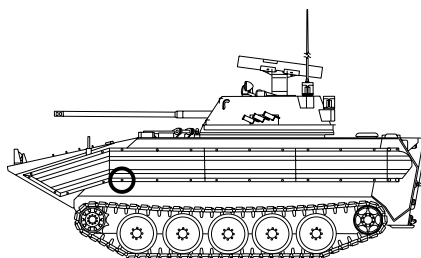
Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Turret rotated to 3200 mils (TM 9-2350-366-10-2)

Personnel Required

Unit Mechanic 63T10  
 Helper (H)

**REMOVAL**

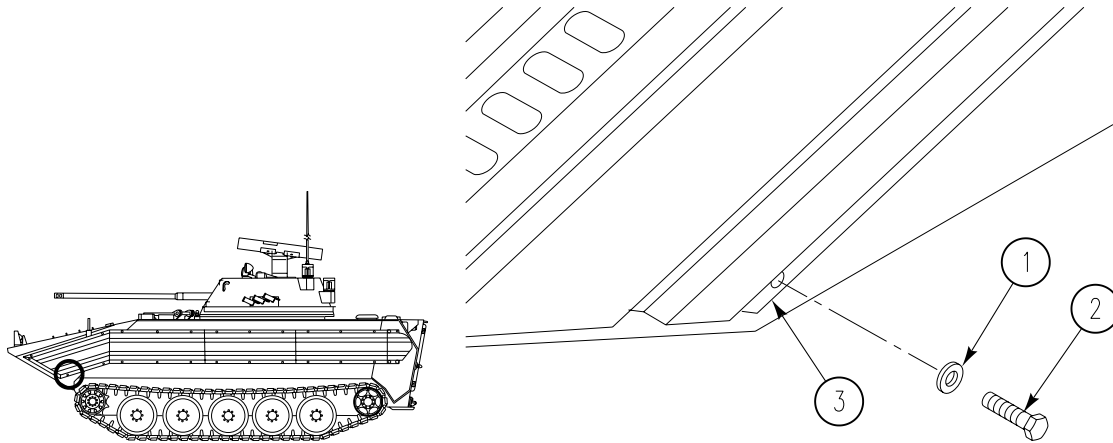
1. REMOVE ENGINE ACCESS COVERS. See TM 9-2350-366-10-1.
2. WHILE HOLDING FRONT VISMOD SECTION (3), REMOVE SIX BOLTS (2), AND WASHERS (1). REMOVE FRONT SECTION OF VISMOD.



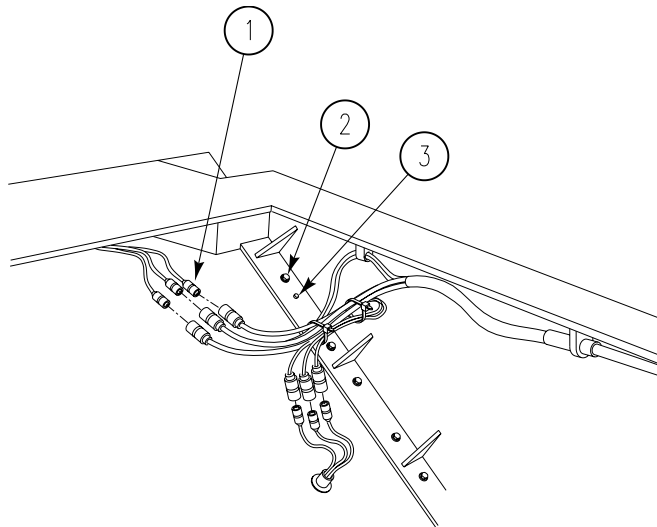
REMOVE/INSTALL HULL NOSE ASSEMBLY — Continued

0313 00

3. WHILE HOLDING SECOND VISMOD SECTION (3), REMOVE SIX BOLTS (2) AND WASHERS (1). REMOVE SECOND SECTION OF VISMOD.



4. REPEAT Steps 2 - 3 FOR OPPOSITE SIDE OF VEHICLE.
5. DISCONNECT SIX CONNECTORS (1) FROM LEFT AND RIGHT SIDES.

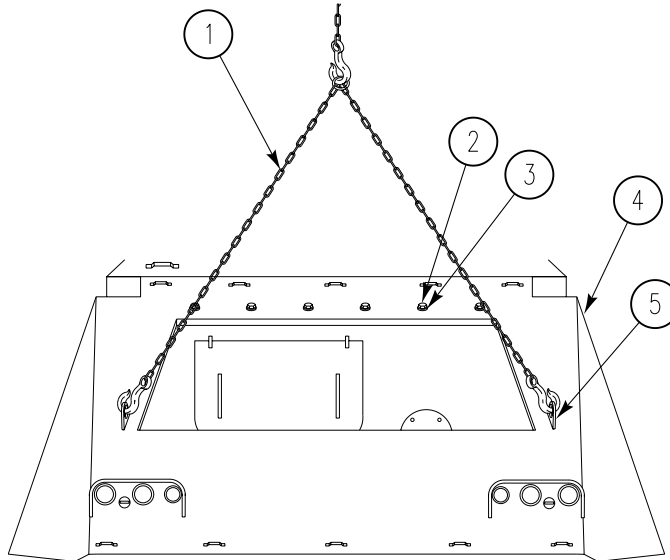


**WARNING**

**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.**

6. CONNECT LIFTING SLING (1) TO NOSE ASSEMBLY LIFTING EYES (5). CONNECT LIFTING DEVICE TO SLING AND REMOVE SLACK. HAVE HELPER ASSIST.



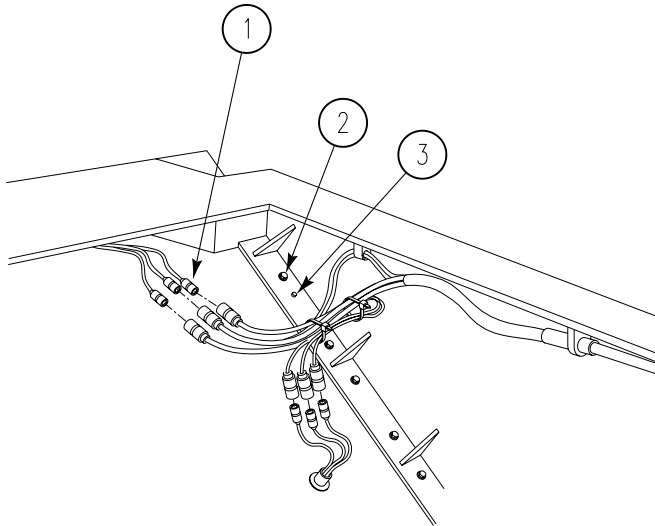
**WARNING**



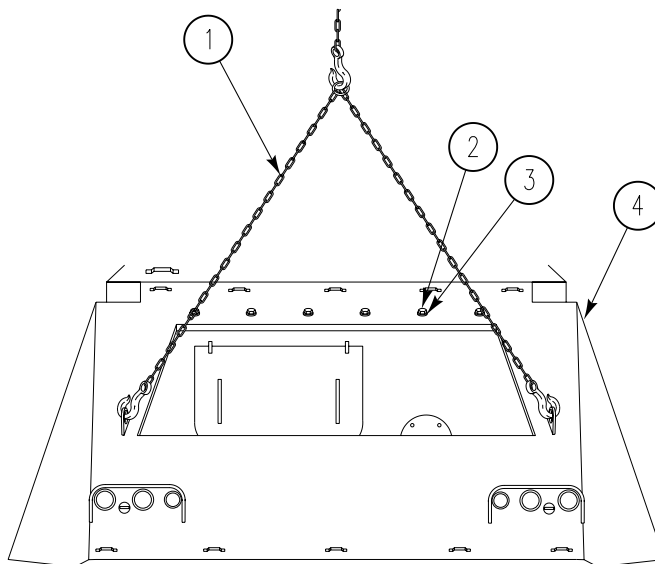
**Hanging loads, heavy parts, and overhead equipment can fall unexpectedly and kill or injure you.**

**Stay clear of hanging loads, heavy parts, and overhead equipment. Use correct lifting devices. Always have helper guide heavy parts and equipment.**

7. REMOVE SEVEN SCREWS (2) (FOUR ON LEFT SIDE AND THREE ON RIGHT SIDE) FROM VISMOD NOSE ASSEMBLY.



8. REMOVE SIX BOLTS (2) AND SIX WASHERS (3) FROM TOP OF NOSE ASSEMBLY.
9. REMOVE HULL NOSE ASSEMBLY (4) FROM VEHICLE.



INSTALLATION

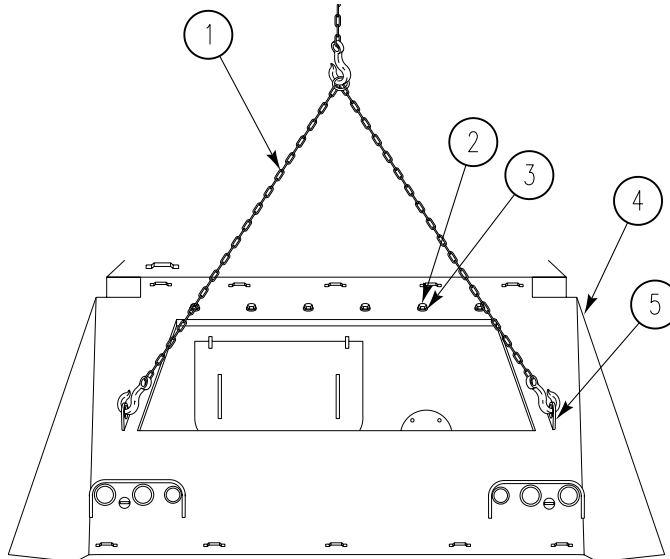
**WARNING**



**Hanging loads, heavy parts, and overhead equipment can fall unexpectedly and kill or injure you.**

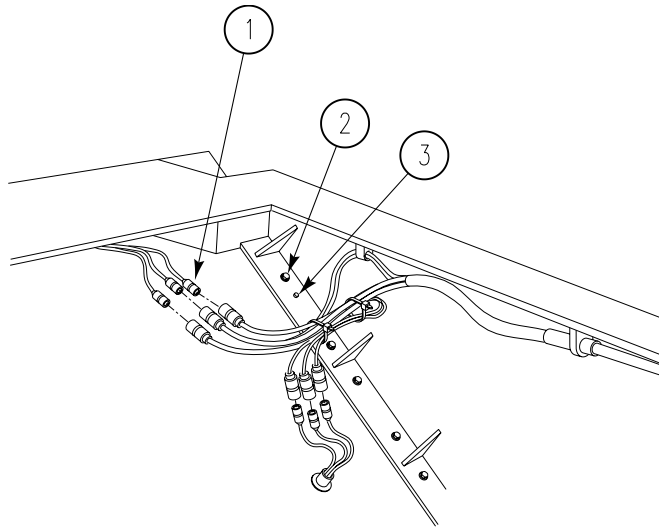
**Stay clear of hanging loads, heavy parts, and overhead equipment. Use correct lifting devices. Always have helper guide heavy parts and equipment.**

1. ATTACH LIFTING SLING (1) TO LIFTING EYES (5).

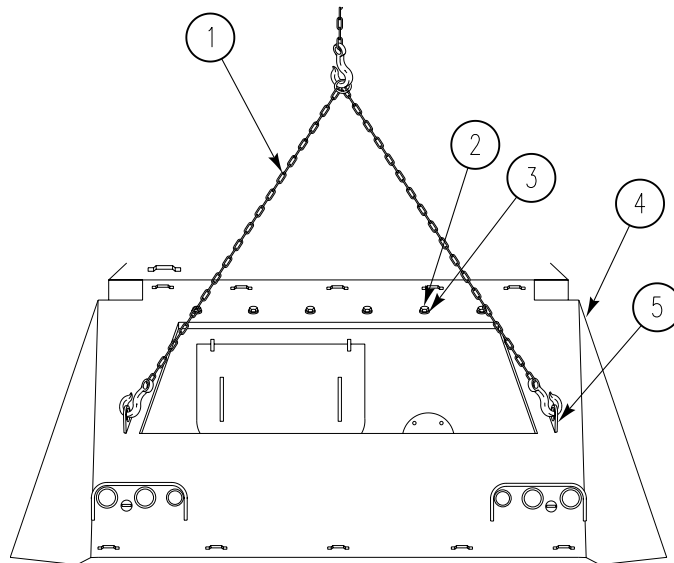


2. POSITION NOSE ASSEMBLY (4) ON VEHICLE FOR INSTALLATION.

3. INSTALL VISMOD SECTION ON TWO PINS (3).



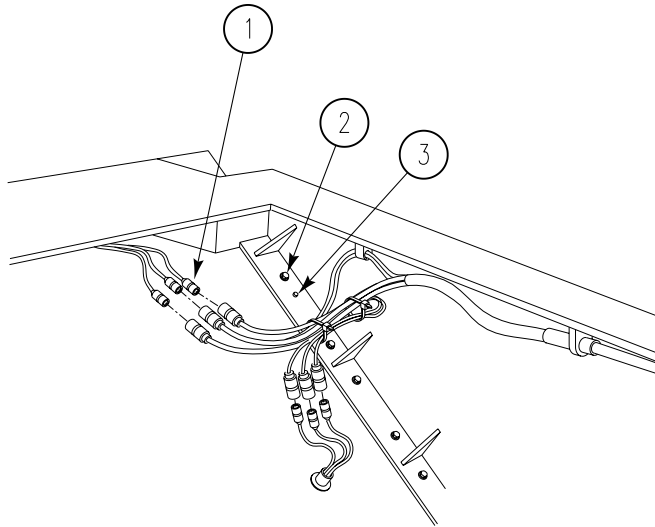
4. INSTALL SIX BOLTS (2) AND WASHERS (3) SECURING NOSE ASSEMBLY ON VEHICLE.



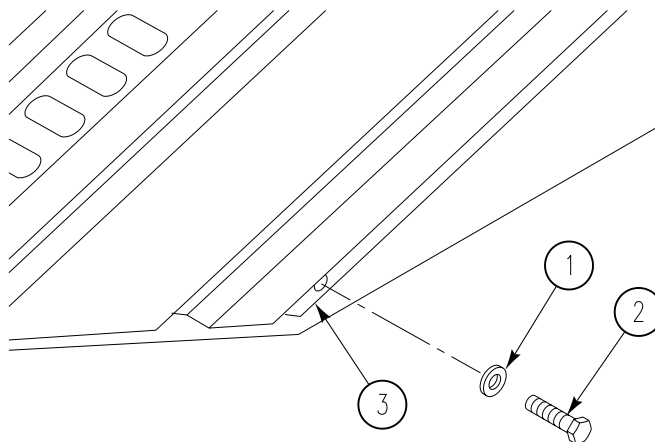
- a. TIGHTEN SIX BOLTS (2) TO 210 LB-FT (285 N·m) TORQUE. USE TORQUE WRENCH (WP 0397 00, Item 84).



5. INSTALL SEVEN SCREWS (2) ON VISMOD NOSE ASSEMBLY (FOUR ON LEFT SIDE AND THREE ON RIGHT SIDE). REMOVE SLING.

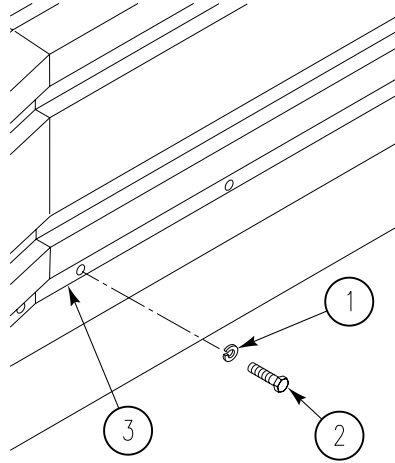


- a. TIGHTEN SEVEN SCREWS (2) TO 125 LB-FT (170 N·m) TORQUE. USE TORQUE WRENCH (WP 0397 00, Item 84).
6. PLUG HEADLIGHT HARNESS EXTENSION CONNECTORS (1) 17, 18, 19, AND 20 ON LEFT SIDE AND CONNECTORS (1) 17, 18, 20, AND 25 ON RIGHT SIDE TO CORRESPONDING CONNECTORS OF VEHICLE WIRING HARNESS.
7. POSITION SECOND VISMOD SECTION (3) FOR INSTALLATION.



8. INSTALL SIX BOLTS (2) AND WASHERS (1) SECURING VISMOD SECTION (3) TO HULL.

9. POSITION FRONT VISMOD SECTION (3) FOR INSTALLATION.
10. INSTALL SIX SCREWS (2) AND WASHERS (1) SECURING FRONT VISMOD SECTION (3) TO HULL.



11. REPEAT Steps 7 - 10 FOR OPPOSITE SIDE OF VEHICLE.
12. TIGHTEN SIX SCREWS (2) TO 26 LB-FT (35 N·m) TORQUE. USE TORQUE WRENCH (WP 0397 00, Item 80).
13. INSTALL ENGINE ACCESS COVERS. See TM 9-2350-366-10-1.

**END OF TASK**

**REMOVE/REPLACE VISMOD PANEL, LEFT AND RIGHT SIDE**

**0314 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0314 00-1).  
 Installation (page 0314 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General Mechanic's Tool Kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Carrier blocked (TM 9-2350-366-10-1)

Materials/Parts

Lock washer (32)  
 Locknut (3)

Personnel Required

Unit Mechanic 63T10  
 Helper (H)

**REMOVAL**

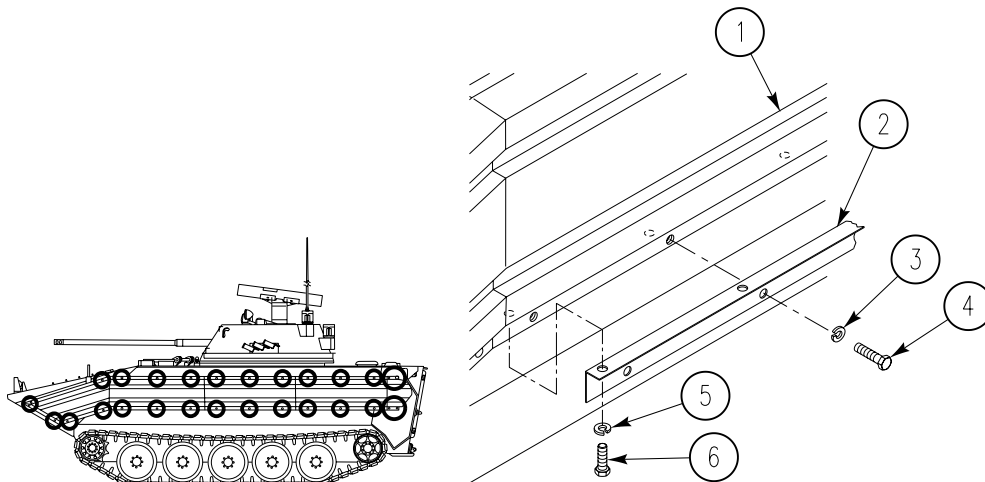
**NOTE**

There are five VISMOD panels on each side of carrier. The small panel at rear of carrier has four bolts. A typical panel is shown.

**NOTE**

There are three angles each on the nose panel, which uses two screws and lock washers to mount each angle. The three center side panels have two angles and use three screws and lock washers to mount each angle. The small rear panel has two angles, which uses two screws and lock washers to mount each angle. All use the same mounting hardware. A typical panel is shown.

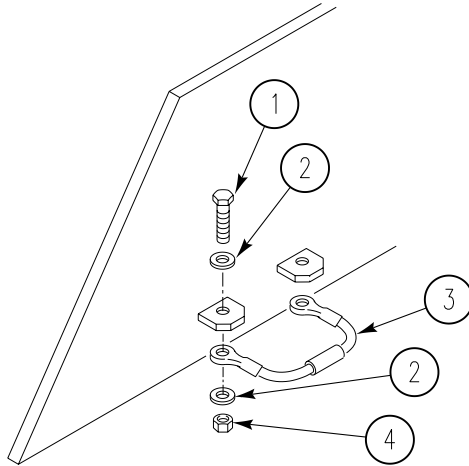
1. REMOVE 28 BOLTS (4), LOCK WASHERS (3) AND VISMOD PANEL (1) FROM CARRIER. HAVE HELPER ASSIST. DISCARD LOCK WASHERS.
2. REMOVE THREE SCREWS (6), LOCK WASHERS (5), AND ANGLE (2) FROM PANEL (1).



**NOTE**

**There is one step cable on each side of the vehicle.**

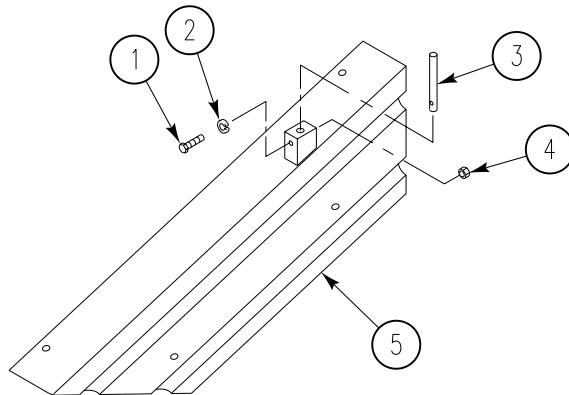
3. REMOVE TWO LOCKNUTS (4), SCREWS (1), FOUR WASHERS (2), AND STEP CABLE (3) FROM VEHICLE. DISCARD LOCKNUTS.



**NOTE**

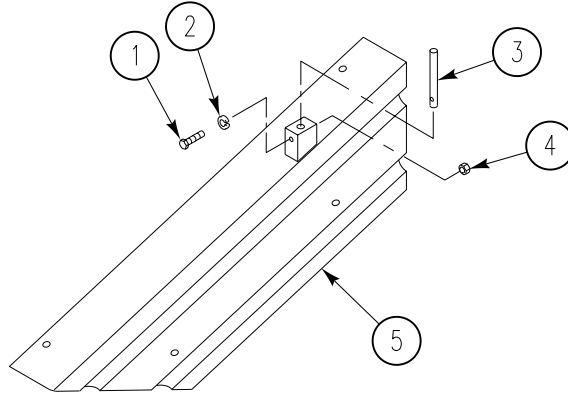
**There is one rod on each nose panel.**

4. REMOVE LOCKNUT (4), SCREW (1), LOCK WASHER (2), AND ROD (3) FROM FRONT NOSE PANEL (5). DISCARD LOCKNUT AND LOCK WASHER.

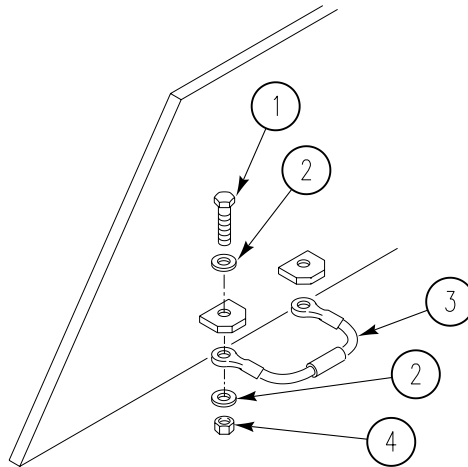


**INSTALLATION**

1. INSTALL ROD (3), NEW LOCK WASHER (2), SCREW (1), AND NEW LOCKNUT (4) ON FRONT NOSE PANEL (5).



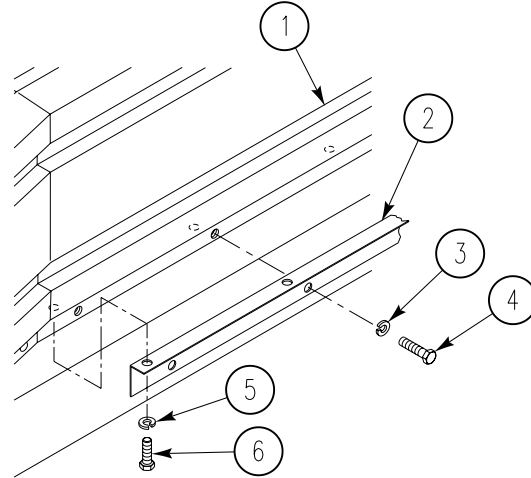
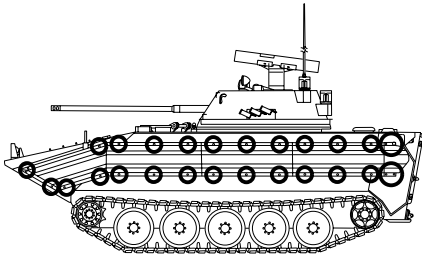
2. INSTALL STEP CABLE (3), FOUR WASHERS (2), TWO SCREWS (1), AND TWO NEW LOCKNUTS (4) ON VEHICLE.



REMOVE/REPLACE VISMOD PANEL, LEFT AND RIGHT SIDE — Continued

0314 00

3. INSTALL ANGLE (2), THREE NEW LOCK WASHERS (5), AND SCREWS (6) ON PANEL (1).
4. INSTALL VISMOD PANEL (1) ON CARRIER WITH 28 NEW LOCK WASHERS (3) AND BOLTS (4). HAVE HELPER ASSIST.



END OF TASK

**REPLACE HULL FRONT ACCESS COVER**

**0315 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0315 00-1).  
 Installation (page 0315 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Torque wrench, 1/2 inch drive, 0-175 ft-lb  
 (WP 0397 00, Item 83)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Front VISMODO access doors removed (WP 0307 00)  
 Engine access cover plate removed (WP 0308 00)

Materials/Parts

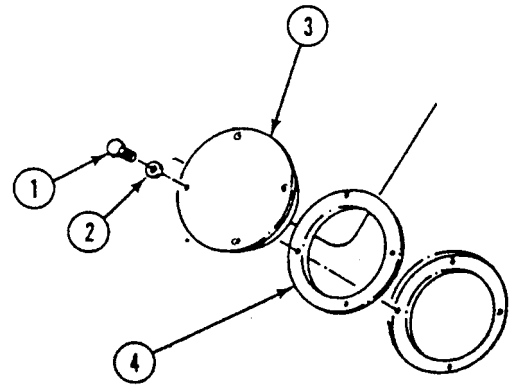
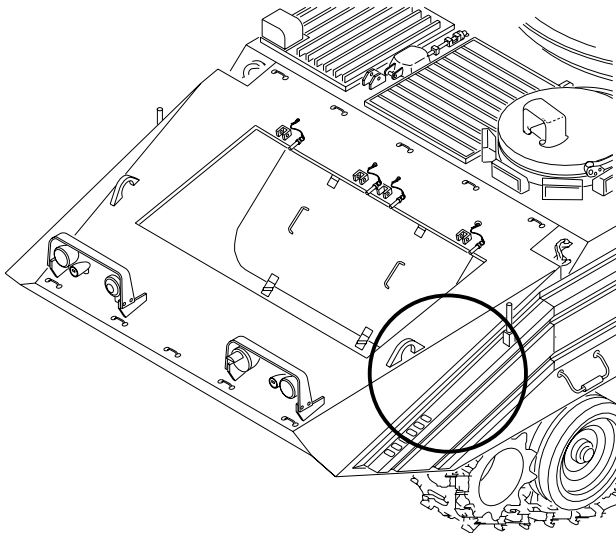
Adhesive (WP 0399 00, Item 4)

Personnel Required

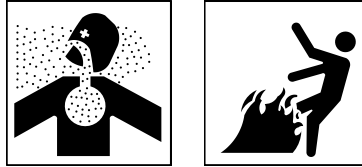
Unit Mechanic 63T10

**REMOVAL**

1. REMOVE FOUR SCREWS (1), WASHERS (2), AND COVER (3) FROM HULL.
2. IF DAMAGED, REMOVE GASKET (4) FROM COVER (3).



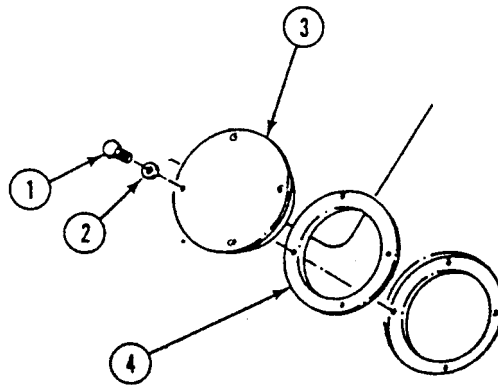
## INSTALLATION

**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. IF GASKET IS BEING REPLACED, APPLY A THIN COAT OF ADHESIVE TO ONE SIDE OF NEW GASKET AND ALLOW TO DRY 20–40 MINUTES. APPLY THIN COAT OF ADHESIVE TO CLEANED BOTTOM SIDE OF COVER. ALLOW TO DRY 30–120 SECONDS.
2. POSITION GASKET (4) ON CLEANED BOTTOM SIDE OF COVER (3). ALIGN MOUNTING HOLES IN COVER AND GASKET.
3. SECURE COVER (3) AND GASKET (4) TO HULL WITH FOUR SCREWS (1) AND WASHERS (2). TIGHTEN SCREWS TO 40–50 LB-FT (54–68 N·m) TORQUE.



4. INSTALL ENGINE ACCESS COVER PLATE (WP 0308 00).
5. INSTALL VISMOD FRONT ACCESS DOORS (WP 0307 00).

**END OF TASK**



**REPLACE POWER PLANT BOTTOM ACCESS COVER**

**0316 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0316 00-1).
- Cleaning (page 0316 00-2).
- Installation (page 0316 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Torque wrench, 1/2 inch drive, 0-175 ft-lb (WP 0397 00, Item 83)

References

TM 9-2350-366-10-1

Materials/Parts

- Adhesive (WP 0399 00, Item 4)
- Antiseize compound (WP 0399 00, Item 10)
- Cleaning compound (WP 0399 00, Item 15)

Equipment Condition

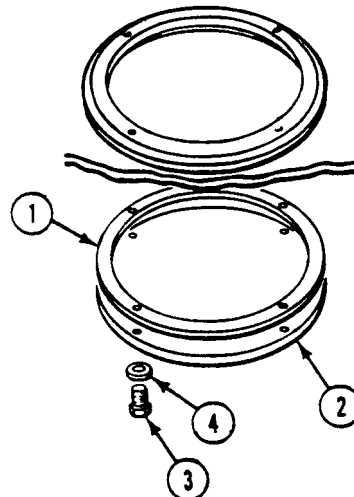
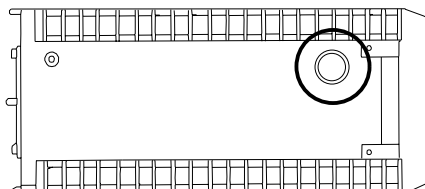
- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)

**REMOVAL**

**CAUTION**

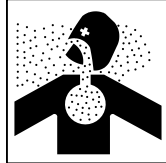
**Vehicle should not be operated with bottom access cover off. This reduces air flow through radiator and draws dirt and debris into power plant compartment.**

1. REMOVE FOUR SCREWS (3), WASHERS (4), AND BOTTOM ACCESS COVER (2) FROM HULL.
2. IF DAMAGED, REMOVE GASKET (1) FROM COVER (2).



CLEANING

**WARNING**



Solvent fumes and fluid are poisonous and can cause skin irritation.

Solvent may be harmful if swallowed. Avoid skin contact and breathing of fumes. Read solvent warning at the front of this manual.

**WARNING**

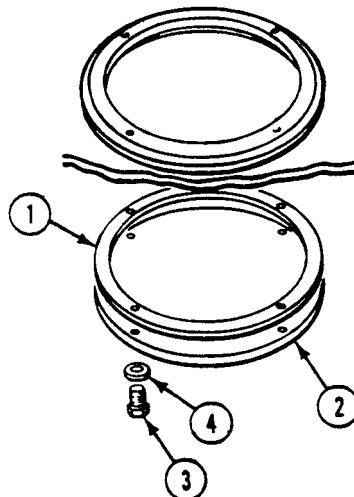


Solvent evaporates rapidly and makes fumes that are flammable.

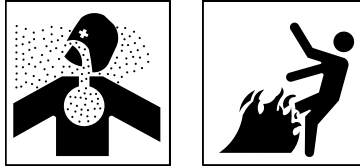
Do not smoke or allow open flames near solvent fumes.

Read solvent warning at the front of this manual.

1. CLEAN MATING SURFACES OF COVER (2) AND GASKET (1) WITH CLEANING COMPOUND.



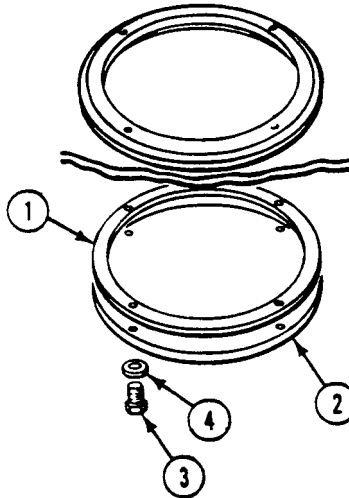
## INSTALLATION

**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 IS BEING REPLACED, APPLY A LIGHT COAT OF ADHESIVE TO ONE SIDE OF NEW GASKET. ALLOW ADHESIVE TO BECOME TACKY.
2. PLACE NEW GASKET (1) ON CLEANED MATING SIDE OF COVER (2). ALIGN MOUNTING HOLES IN COVER AND GASKET.



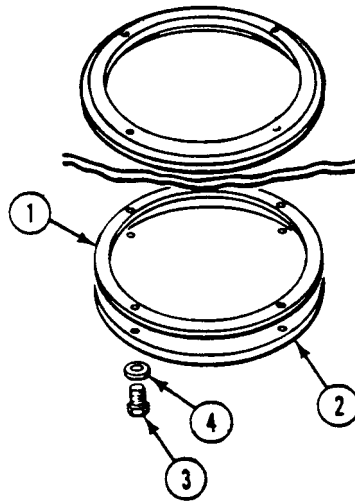
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**REPLACE POWER PLANT BOTTOM ACCESS COVER — Continued**

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**0316 00**

3. CLEAN FOUR SCREWS (3) WITH CLEANING COMPOUND. APPLY ANTISEIZE COMPOUND SPARINGLY TO EXTERNAL THREADS OF SCREWS.
4. INSTALL COVER (2) ON HULL WITH FOUR SCREWS (3) AND WASHERS (4).



5. TIGHTEN SCREWS (3) TO 40–50 LB-FT (54–68 N·m) TORQUE. USE TORQUE WRENCH.

**END OF TASK**

CHAPTER 28

UNIT MAINTENANCE INSTRUCTIONS  
FOR HULL ASSEMBLIES

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**WORK PACKAGE INDEX**

---

| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| REPAIR HULL BY WELDING.....   | .0317 00            |
| REPLACE HORN AND GROUND LEAD.....                                       | .0318 00            |
| REPLACE UTILITY OUTLET RECEPTACLE.....                                  | .0319 00            |
| REPLACE POWER PLANT GRILL SCREEN.....                                   | .0320 00            |
| REMOVE/REPLACE ENGINE ACCESS COVER PLATE SEAL.....                      | .0321 00            |
| REPLACE TOWING HOOK AND EYE.....  | .0322 00            |
| REPLACE REAR TIEDOWN PLATES.....  | .0323 00            |
| REPLACE LIFTING EYE.....  | .0324 00            |
| REPLACE HEADLIGHT GUARD.....  | .0325 00            |
| REMOVE/REPLACE REAR DOOR CATCH HOOKS.....                               | .0326 00            |
| REMOVE/REPLACE REAR DOOR BUMPER.....                                    | .0327 00            |
| REMOVE/REPLACE RIGHT REAR DOOR HANDLES, HINGES, LATCHES, AND CHAIN..... | .0328 00            |
| REPLACE REAR DOORS, HINGES, AND GASKETS.....                            | .0329 00            |
| REPLACE LEFT REAR DOOR INSIDE HINGES AND LATCH.....                     | .0330 00            |
| ADJUST TOW START CONTROL CABLE ASSEMBLY.....                            | .0331 00            |
| REPLACE TOW START CONTROL ASSEMBLY AND BEARING.....                     | .0332 00            |
| REPLACE TOW START CONTROL ASSEMBLY COVER.....                           | .0333 00            |



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**REPAIR HULL BY WELDING**

**0317 00**

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**THIS WORK PACKAGE COVERS:**

- Safety Precautions (page 0317 00-1)
  - Aluminum Castings (page 0317 00-2)
  - Magnesium Castings (page 0317 00-2)
  - Fuel Tanks (page 0317 00-3)
  - Plastic Molding Material (page 0317 00-3)
  - General Welding Instructions (page 0317 00-4)
  - MIG Welding Method (page 0317 00-5)
- 

**INITIAL SETUP:**

Maintenance Level

Unit

References

- TM 9-2350-366-10-1
- TM 9-237
- TM 43-0139

Tools and Special Tools

- Metal worker's tool kit (WP 0397 00, Item 62)
- Trailer-mounted welding shop (WP 0397 00, Item 68)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Battery ground strap disconnected (WP 0237 00)

Materials/Parts

- Cleaning compound (WP 0399 00, Item 15)

Personnel Required

- Metal Worker 44B10
- 

**REPAIR OR REPLACEMENT**

**SAFETY PRECAUTIONS**

1. WEAR CLOTHING SUCH AS LEATHER OR HEAVY DENIM. DO NOT WEAR CLOTHING WITH LOOSE POCKETS, TROUSER CUFFS, OR SHORT OR ROLLED- UP SLEEVES.
2. DO NOT EXPOSE BARE SKIN TO WELDING ARC.
3. DO NOT LOOK DIRECTLY AT WELDING ARC UNLESS YOU ARE WEARING A WELDING HOOD.
4. WEAR FLASH GOGGLES OR TINTED SAFETY GLASSES (NO. 2) IN WELDING AREA.
5. DISCONNECT POWER SOURCE BEFORE CHANGING PARTS OR MAKING EQUIPMENT REPAIRS.
6. DO NOT TOUCH DRIVE MECHANISM OR ANY PART OF THE ELECTRODE.
7. MAKE SURE WELDING AREA HAS PLENTY OF FRESH AIR WITHOUT BEING DRAFTY. REMOVE ALL TOXIC AND COMBUSTIBLE MATERIAL.
8. MAKE SURE ALL ELECTRICAL AND GAS CONNECTIONS ARE TIGHT.
9. DO NOT TOUCH ANY METAL IN WELDING AREA WITH BARE HANDS. ALUMINUM DOES NOT CHANGE COLOR WHEN HOT.
10. DO NOT WELD IN THE FUEL COMPARTMENT WHERE SEALING COMPOUND HAS BEEN APPLIED.
11. USE A WELDING SCREEN TO PROTECT PERSONNEL FROM ARC FLASH.

**ALUMINUM CASTINGS****CAUTION**

Heat distortion during welding will damage aluminum castings. Do not attempt to repair aluminum castings by welding.

1. WELDING ON FINAL DRIVE ALUMINUM CASTING IS NOT AUTHORIZED. DO NOT ATTEMPT TO WELD ON THE FINAL DRIVE HOUSING ASSEMBLY.

**MAGNESIUM CASTINGS****WARNING**

Magnesium may catch on fire if welded on or exposed to high temperatures. Do not weld on magnesium castings or expose them to high temperatures.

1. WELDING ON FAN MAGNESIUM CASTINGS IS NOT AUTHORIZED. DO NOT ATTEMPT TO WELD ON THESE PARTS.

**WARNING**

Fine particles of magnesium can catch fire and burn you. Be very careful when filing or grinding on magnesium. Use grinding equipment marked **FOR MAGNESIUM GRINDING ONLY**. Keep a Class D fire extinguisher nearby.

2. YOU MUST OBSERVE THE FOLLOWING SAFETY PRECAUTIONS WHEN FILING OR GRINDING ON MAGNESIUM:
  - a. Use grinding equipment marked **FOR MAGNESIUM GRINDING ONLY**.
  - b. Use a suitable coolant when grinding magnesium to keep temperatures below ignition point.
  - c. Keep tools used on magnesium sharp.

**WARNING**

Water and foam-type fire extinguishers will cause magnesium fires to flare up. Use a Class D fire extinguisher or a sodium chloride base dry powder to fight magnesium fires.

- d. Keep a Class D fire extinguisher nearby for use on magnesium fires.



- e. Wear outer clothing of fire retardant cloth or leather. Brush clothing often to remove magnesium particles.
- f. Clean work area often. Do not let magnesium particles build up.

**WARNING**

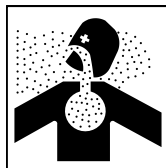
**Improper disposal of magnesium can cause a fire or explosion. Do not expose magnesium to high temperatures. Let magnesium dry before placing in sealed metal containers. Label containers and ship to a Class 1 hazardous waste disposal site.**

- g. Dispose of magnesium chips and filings according to regulations.

**FUEL TANKS****WARNING**

**Fuel fumes can explode and burn you. Before welding check the follow list.**

1. STEPS TO BE TAKEN BEFORE WELDING:
  - Drain all fuel.
  - Disconnect and cap all fuel and vent lines.
  - Purge fuel residue and fumes by steam cleaning.
  - Purge air from fuel tank with carbon dioxide (CO<sub>2</sub>).

**PLASTIC MOLDING MATERIAL****WARNING**

**Do not weld on plastic molding material. welding on plastic molding creates toxic fumes. Fumes are hazardous to your health and can result in death.**

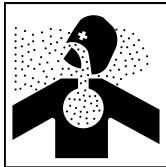
1. WELDING ON PLASTIC MOLDING MATERIAL IS NOT AUTHORIZED. DO NOT ATTEMPT TO WELD ON THESE PARTS. REPLACE PART OR NOTIFY YOUR SUPERVISOR. THE FOLLOWING IS A LIST OF PLASTIC MOLDING MATERIAL PARTS AND THEIR LOCATIONS:
  - a. Driver's power plant compartment access panel.

- b. Power plant rear compartment access panel.
- c. Driver's seat upholstered backrest.
- d. All armor made of plastic molding material.

### GENERAL WELDING INSTRUCTIONS

1. REMOVE ANY PARTS THAT ARE IN THE WAY OR MAY BE DAMAGED.
2. BASIC WELDING REPAIRS ARE MADE ON 5083 ALUMINUM ALLOY USING THE MIG (GAS METAL ARC) WELDING METHOD.
3. ALUMINUM WELDS CONTRACT ABOUT 6 PERCENT IN VOLUME WHEN THEY BECOME SOLID. WELDING AT A SLOW SPEED MAY CAUSE TOO MUCH HEATING OF THE AREA AROUND THE WELD. THIS WILL CAUSE THE METAL TO EXPAND TOO MUCH. IT WILL THEN SHRINK TOO MUCH WHEN IT COOLS.
4. ALWAYS USE CLEAN FILLER WIRE. FILLER WIRE POLLUTED BY GREASE, OIL, DUST, OR SHOP FUMES CAUSES POROUS WELDS. AFTER WELDING, COVER WIRE AND STORE IN A WARM, DRY PLACE.

#### WARNING



**Solvent fumes and fluid are poisonous and can cause skin irritation.**

**Solvent may be harmful if swallowed. Avoid skin contact and breathing of fumes. Read solvent warning at the front of this manual.**

#### WARNING



**Solvent evaporates rapidly and makes fumes that are flammable.**

**Do not smoke or allow open flames near solvent fumes.**

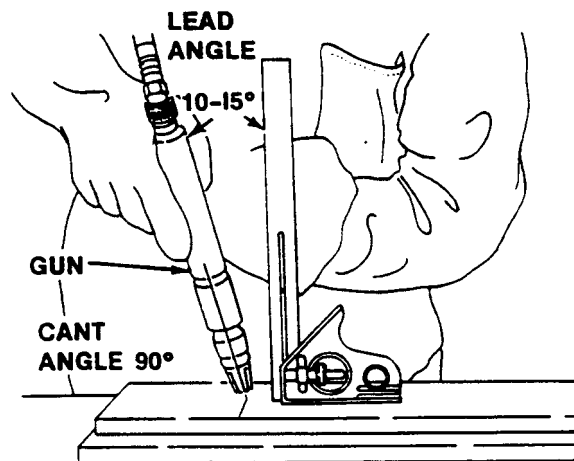
**Read solvent warning at the front of this manual.**

5. ALWAYS REMOVE OXIDES, GREASE, OIL FILMS, PAINT, AND ALL FOREIGN MATTER FROM JOINT BEFORE WELDING. WIPE EDGES OF JOINT WITH CLEAN CLOTH DIPPED IN SOLVENT AND LET DRY BEFORE WELDING. SAND WITH DISC SANDER OR BRUSH WELL WITH CLEAN STAINLESS STEEL WIRE BRUSH TO REMOVE OXIDE.
6. GOOD JOINT FITUP MAKES WELDING EASIER, SAVES FILLER WIRE AND GAS, AND RESULTS IN HIGHER QUALITY WELDS. YOU MUST TACK WELD TO HOLD JOINT MEMBERS IN PLACE IF YOU DO NOT HAVE JIGS. TACK WELDS SHOULD BE SMALL, NEAT, AND PLACED TO KEEP PARTS ALIGNED BEFORE AND DURING WELDING.

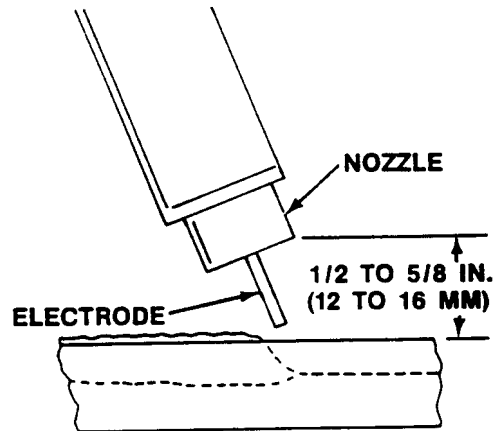
7. WHEN WELDING UNEQUAL SECTIONS, DIRECT ARC AGAINST HEAVIER PIECE TO FUSE THE TWO EDGES EVENLY. WATCH WELD POOL EDGE RATHER THAN ARC TO MAKE SURE WELD POOL EDGES FUSE RIGHT.
8. WHEN PERFORMING MULTI-PASS WELDING, MAKE SURE EDGES OF WELD POOL FUSE RIGHT. WATCH WELD POOL RATHER THAN ARC. ANY OSCILLATING OR WEAVING MOTION SHOULD BE SLIGHT, SMOOTH, AND SLOW. BRUSH MATERIAL WITH CLEAN, STAINLESS STEEL WIRE BRUSH AFTER EACH PASS. ON SMALL WELDMENTS, LOWER AMPERAGE SLIGHTLY AFTER EACH PASS IF WELDING MEMBERS BECOME TOO HOT.
9. CLEAN UP WELD AREA AND TOUCH-UP PAINT ALL BARE METAL. See TM 43-0139.
10. INSTALL ANY PARTS REMOVED FOR ACCESS.

### MIG WELDING METHOD

1. MIG (GAS METAL ARC) WELDING USES A DC POWER SOURCE, CONTROL PANEL, AND WELDING GUN. THE GUN FEEDS A CONSUMABLE BARE ELECTRODE AT A GIVEN RATE INTO A MOLTEN POOL BENEATH A BLANKET OF INERT GAS. WHEN AN ARC IS STRUCK, A MOLTEN POOL FORMS AT ONCE. MOVE THE WELDING GUN ALONG THE JOINT LINE AT A RATE THAT SHAPES THE RIGHT SIZE BEAD. THE COVERING OF INERT GAS KEEPS AIR FROM POLLUTING THE WELD ZONE. NO FLUX IS NEEDED.
2. LEAD ANGLE AND CANT ANGLE ARE IMPORTANT. PLACE GUN AT A LEAD ANGLE OF 10 TO 15 DEGREES OFF VERTICAL. POINT GUN IN DIRECTION OF WELD TRAVEL FOR GOOD GAS COVERAGE, CLEANING, AND PREHEATING OF MATERIAL. PLACE GUN AT CANT ANGLE OF 90 DEGREES TO PARENT METAL SO FILLER WIRE AND ARC ARE DIRECTED TOWARD APEX OF GROOVE. THIS WILL GIVE EQUAL FUSION TO BOTH SIDES OF MATERIAL, EVEN WELD BUILDUP, AND EQUAL PENETRATION.



3. KEEP NOZZLE CLEARANCE OF 1/2 TO 5/8 INCH (12 TO 16 MM) FOR GOOD GAS COVERAGE. WRONG NOZZLE CLEARANCE WILL CAUSE THE FOLLOWING:



- a. Oxide deposits in the weld bead.
  - b. Force gas bubbles into the weld.
  - c. Prevent cleaning action on the material in front of the weld pool.
4. YOU WILL HEAR A SMOOTH HISSING OR BUZZING SOUND WHEN THE RIGHT ARC LENGTH IS STRUCK.
5. REFER TO TM 9-237 FOR FURTHER WELDING INSTRUCTIONS.
6. CONNECT BATTERY GROUND STRAP (WP 0237 00).

**END OF TASK**

**REPLACE HORN AND GROUND LEAD**

**0318 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0318 00-1).  
 Installation (page 0318 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Materials/Parts

Lockwasher

Vehicle blocked (TM 9-2350-366-10-1)

Personnel Required

Unit Mechanic 63T10

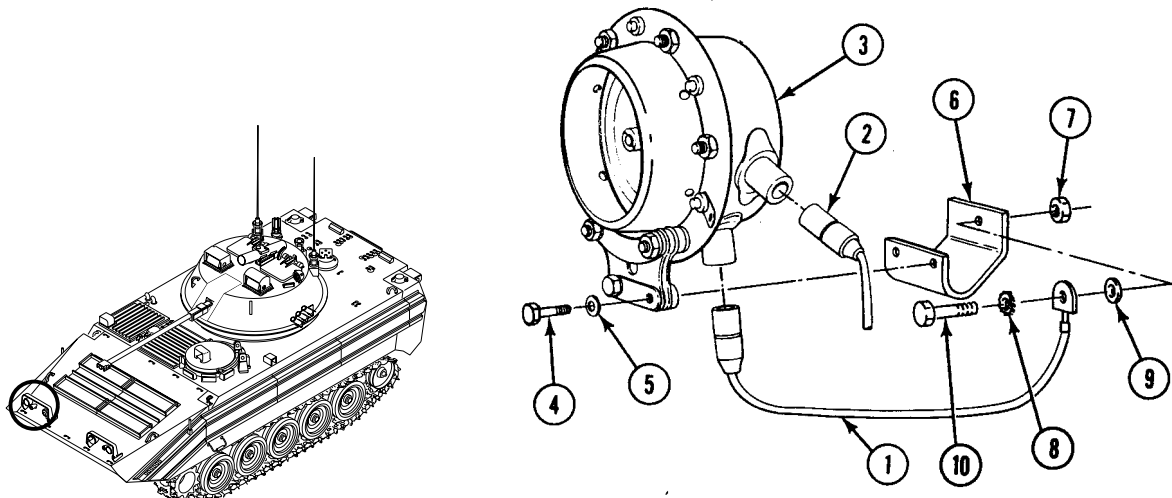
Battery ground strap disconnected (WP 0237 00)

**REMOVAL**

**NOTE**

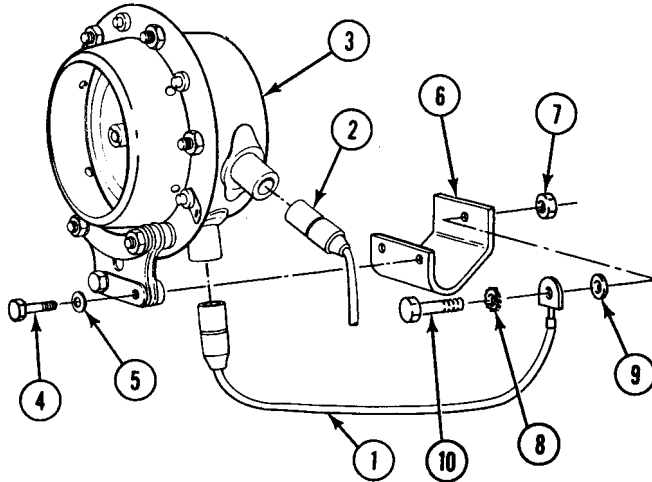
**If ground lead is to be replaced only, do Removal Step 1 and Step 3 and Installation Step 1 and Step 3.**

1. DISCONNECT GROUND LEAD (1) AND CIRCUIT 25 LEAD (2) FROM HORN (3).
2. REMOVE TWO SCREWS (4), LOCKWASHERS (5), AND HORN (3) FROM HULL BRACKET (6).
3. REMOVE NUT (7), LOCKWASHER (8), GROUND LEAD (1), WASHER (9), AND SCREW (10) FROM BRACKET (6). DISCARD LOCKWASHER.



**INSTALLATION**

1. INSTALL GROUND LEAD (1) ON BRACKET (6). SECURE WITH SCREW (10), WASHER (9), NEW LOCKWASHER (8), AND NUT (7).
2. INSTALL HORN (3) ON BRACKET (6). SECURE WITH TWO LOCKWASHERS (5) AND SCREWS (4).
3. CONNECT CIRCUIT 25 LEAD (2) AND GROUND LEAD (1) TO HORN (3).



4. CONNECT BATTERY GROUND STRAP (WP 0237 00).
5. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1.
6. PRESS HORN SWITCH TO CHECK THAT HORN WORKS. See TM 9-2350-366-10-1.
7. TURN MASTER SWITCH OFF. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE UTILITY OUTLET RECEPTACLE**

**0319 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0319 00-1).
- Repair or Replacement (page 0319 00-2).
- Installation (page 0319 00-2).

**INITIAL SETUP:**

Maintenance Level  
Unit

References  
TM 9-2350-366-10-1

Tools and Special Tools  
General mechanic's tool kit (WP 0397 00, Item 64)  
Multimeter (WP 0397 00, Item 30)

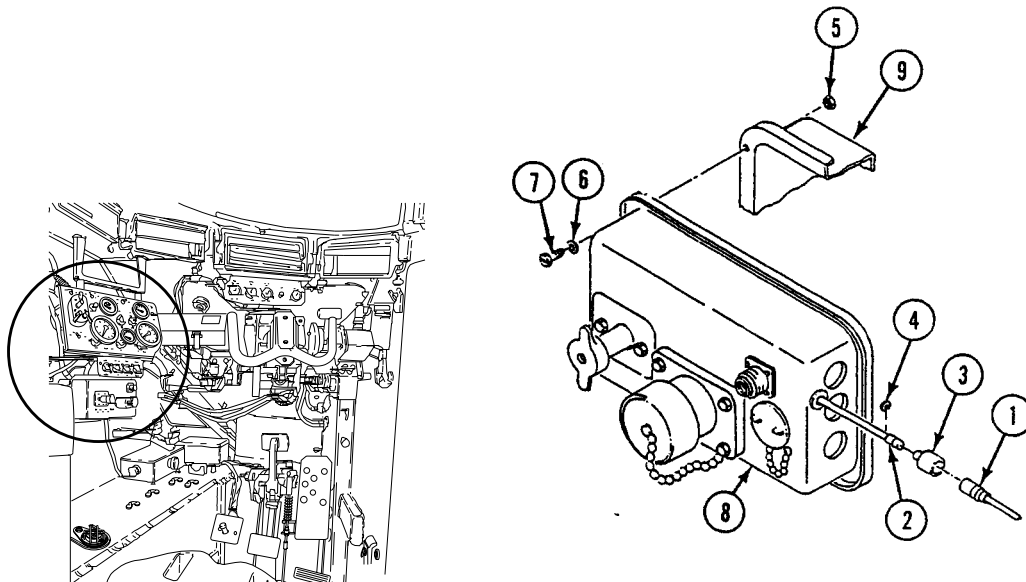
Equipment Condition

Materials/Parts  
Locknut (8)  
Lockwashers (2)  
Personnel Required  
Unit Mechanic 63T10

Engine stopped (TM 9-2350-366-10-1)  
Vehicle blocked (TM 9-2350-366-10-1)  
Battery ground lead disconnected (WP 0237 00)  
Warning light panel assembly removed (WP 0214 00)

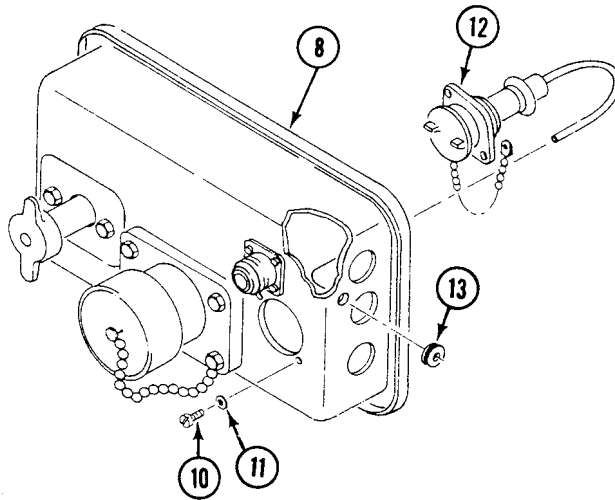
**REMOVAL**

1. DISCONNECT CIRCUIT 37 LEAD (1) FROM UTILITY OUTLET RECEPTACLE LEAD (2).
2. SLIDE SHELL CONNECTOR (3) DOWN LEAD (2). REMOVE SLOTTED WASHER (4) FROM LEAD. REMOVE SHELL CONNECTOR FROM LEAD.
3. REMOVE EIGHT LOCKNUTS (5), WASHERS (6), SCREWS (7) AND MASTER SWITCH PANEL (8) FROM DISTRIBUTION BOX (9). DISCARD LOCKNUTS.



4. REMOVE TWO SCREWS (10), LOCK WASHERS (11) AND RECEPTACLE (12) FROM MASTER SWITCH PANEL (8). DISCARD LOCK WASHERS.

- IF NEEDED, REMOVE GROMMET (13) FROM MASTER SWITCH PANEL (8).



**REPAIR OR REPLACEMENT**

- CHECK CONNECTORS. REPLACE CRACKED OR BROKEN CONNECTORS (WP 0189 00).

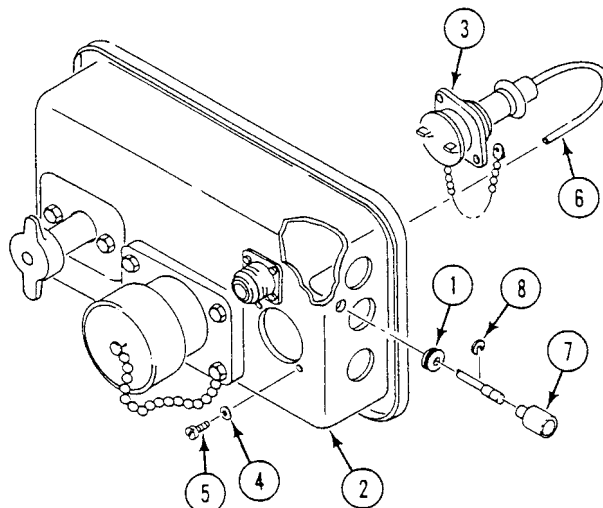
**INSTALLATION**

- IF REMOVED, INSTALL NEW GROMMET (1) FROM MASTER SWITCH PANEL (2).

**NOTE**

**Make sure receptacle cover retaining chain is installed on lower screw.**

- PLACE UTILITY OUTLET RECEPTACLE (3) ON REAR OF PANEL (2). SECURE WITH TWO NEW LOCK WASHERS (4) AND SCREWS (5).
- ROUTE UTILITY OUTLET RECEPTACLE LEAD (6) THROUGH GROMMET (1). INSTALL SHELL CONNECTOR (7) AND SLOTTED WASHER (8).





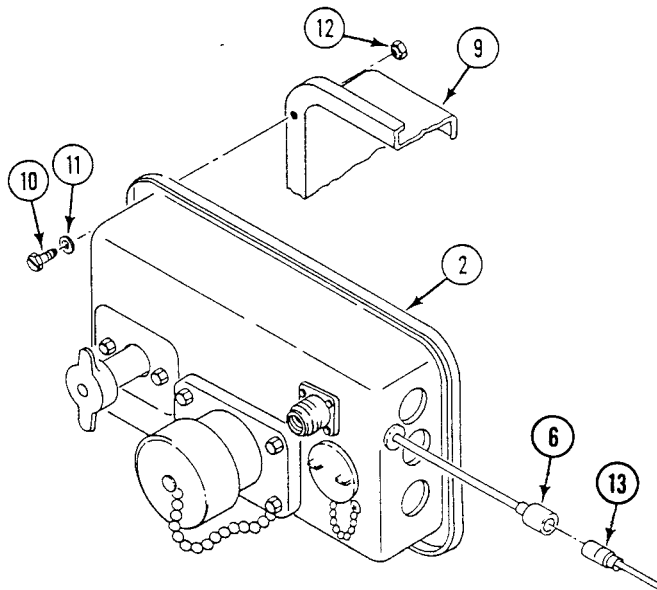
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**REPLACE UTILITY OUTLET RECEPTACLE — Continued**

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**0319 00**

4. INSTALL MASTER SWITCH PANEL (2) ON DISTRIBUTION BOX (9) SECURE WITH EIGHT SCREWS (10), WASHERS (11) AND NEW LOCKNUTS (12).
5. CONNECT CIRCUIT 37 LEAD (13) TO UTILITY RECEPTACLE LEAD (6).



6. INSTALL WARNING LIGHT PANEL ASSEMBLY (WP 0214 00).
7. CONNECT BATTERY GROUND LEAD (WP 0237 00).
8. TURN MASTER SWITCH TO ON. See TM 9-2350-366-10-1. CHECK THAT RECEPTACLE IS INSTALLED RIGHT.
9. TURN MASTER SWITCH TO OFF. See TM 9-2350-366-10-1.

**END OF TASK**



**REPLACE POWER PLANT GRILL SCREEN**

**0320 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0320 00-1).  
 Installation (page 0320 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Personnel Required

Unit Mechanic 63T10

Materials/Parts

Adhesive

References

TM 9-2350-366-10-1

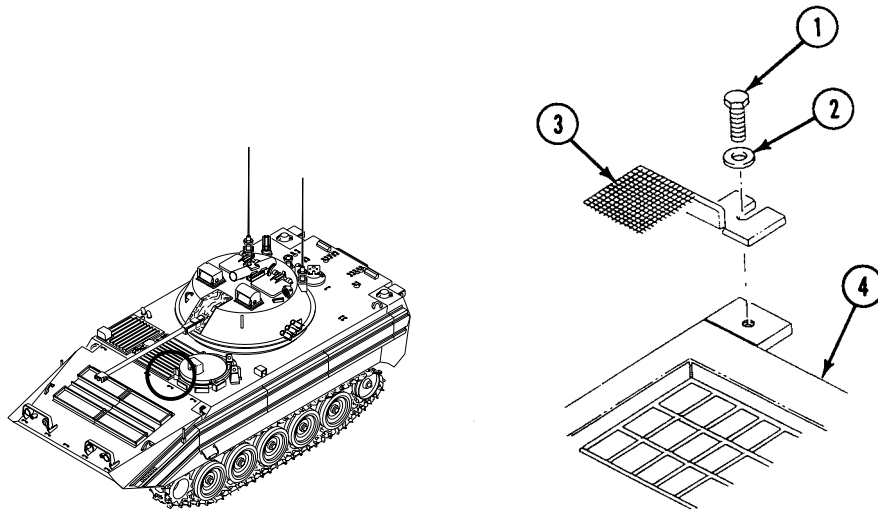
Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

**REMOVAL**

1. REMOVE TWO SCREWS (1), WASHERS (2) AND SCREEN (3) FROM POWER PLANT GRILL (4).



**INSTALLATION**

**NOTE**

Latest configuration screen is attached to grill with adhesive.

1. INSTALL SCREEN (3) ON POWER PLANT GRILL (4) WITH TWO WASHERS (2) AND SCREWS (1).

**END OF TASK**



**REMOVE/REPLACE ENGINE ACCESS COVER PLATE SEAL**

**0321 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0321 00-1).
- Installation (page 0321 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Front VISMODO access doors removed (WP 0307 00)
- Engine access cover plate removed (WP 0308 00)

Materials/Parts

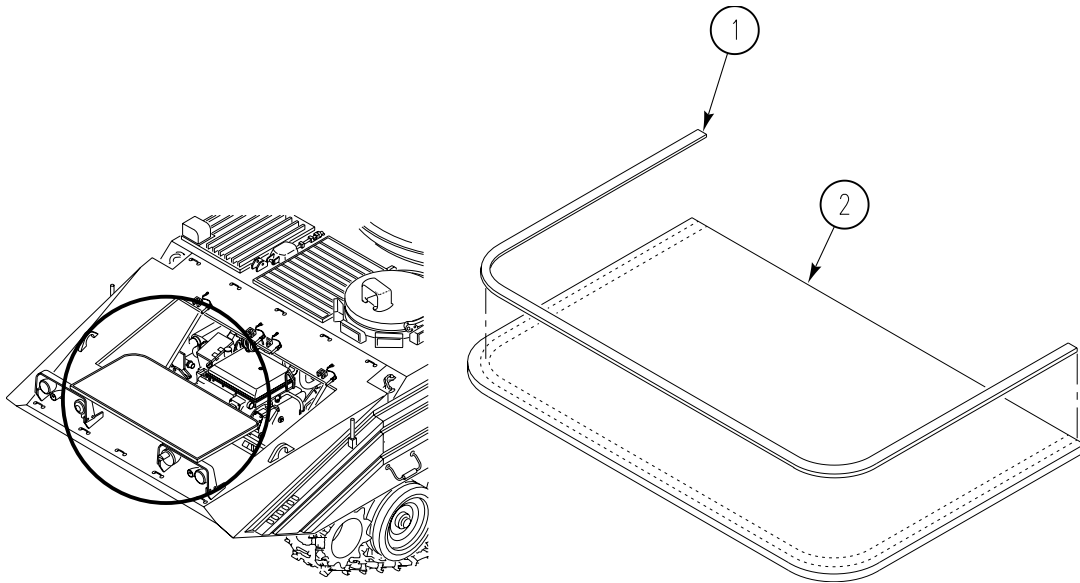
- Adhesive (WP 0399 00, Item 4)
- Seal

Personnel Required

Unit Mechanic 63T10

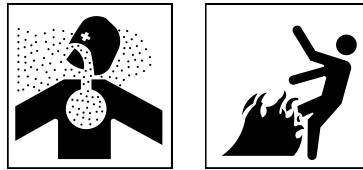
**REMOVAL**

1. REMOVE SEAL (1) FROM ACCESS COVER PLATE (2). DISCARD SEAL.



2. THOROUGHLY CLEAN SEAL AREA.

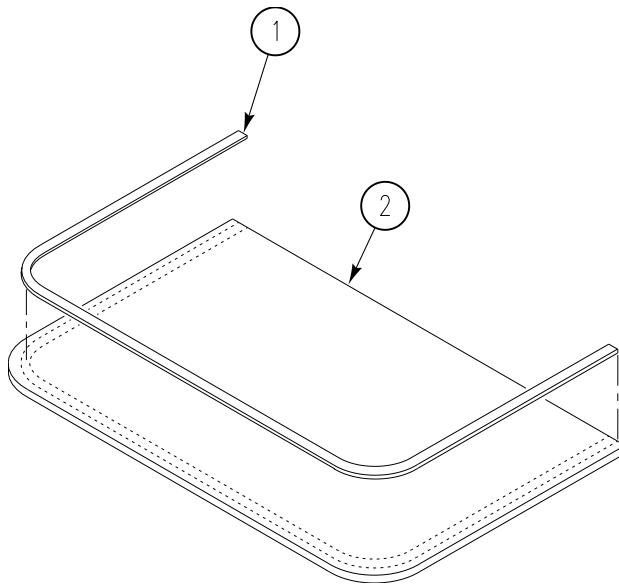
## INSTALLATION

**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 THIN COAT OF ADHESIVE TO SEAL SURFACE (1) OF ACCESS COVER PLATE (2).



2. PRESS SEAL (1) FIRMLY ON ACCESS COVER PLATE (2).
3. INSTALL FRONT VISMODO ACCESS DOORS (WP 0307 00).
4. INSTALL ENGINE ACCESS COVER PLATE (WP 0308 00).

**END OF TASK**

**REPLACE TOWING HOOK AND EYE**

**0322 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0322 00-1).  
 Installation (page 0322 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Torque wrench, 1/2 inch drive, 0–175 ft-lb  
 (WP 0397 00, Item 83)

Equipment Condition

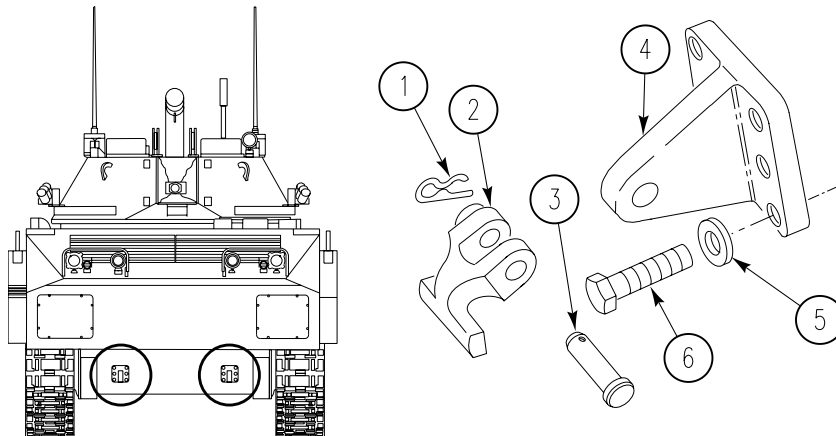
Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. REMOVE CLIP (1), PIN (3), AND HOOK (2) FROM EYE (4).
2. REMOVE SIX SCREWS (6), WASHERS (5) AND EYE (4) FROM HULL.



**INSTALLATION**

1. INSTALL EYE (4) ON HULL WITH SIX WASHERS (5) AND SCREWS (6).
2. TIGHTEN SIX SCREWS (6) TO 130-140 LB-FT (176-190 N.M) TORQUE. USE TORQUE WRENCH.
3. INSTALL HOOK (2) ON EYE (4) WITH PIN (3) AND CLIP (1).

**END OF TASK**





**REPLACE REAR TIEDOWN PLATES**

**0323 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0323 00-1).
- Installation (page 0323 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Socket wrench set (WP 0397 00, Item 71)
- Torque wrench (WP 0397 00, Item 84)

References

TM 9-2350-366-10-1

Materials/Parts

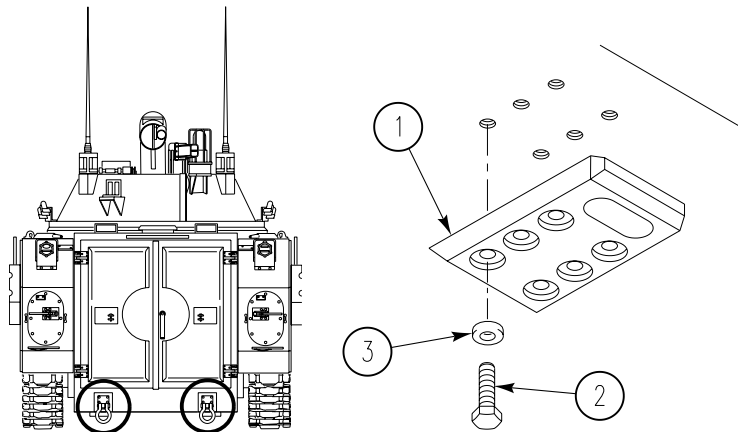
- Sealing compound primer (WP 0399 00, Item 56)
- Sealing compound (WP 0399 00, Item 47)

Equipment Condition

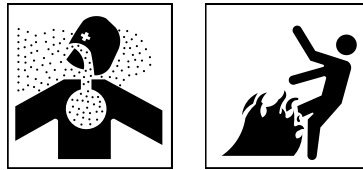
- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)

**REMOVAL**

1. REMOVE 12 SCREWS (2), FLAT WASHERS (3), AND TWO PLATES (1) FROM BOTTOM OF VEHICLE.



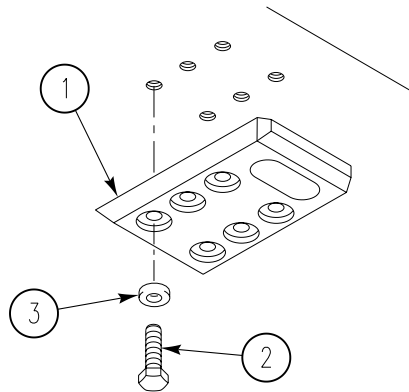
## INSTALLATION

**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. INSTALL TWO PLATES (1) ON BOTTOM OF VEHICLE.
  - a. Apply light coat of sealing compound primer and sealing compound to threads of 12 screws (2).
  - b. Install two plates (1), 12 flat washers (3), and coated screws (2) on bottom of vehicle.
2. TIGHTEN 12 SCREWS (2) TO 268-295 LB-FT (363-400 N·m) TORQUE.

**END OF TASK**

**REPLACE LIFTING EYE**

**0324 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0324 00-1).  
 Installation (page 0324 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Socket adapter (WP 0397 00, Item 1)  
 Torque wrench, 3/4 inch drive, 0–600 ft-lb  
 (WP 0397 00, Item 84)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)

Personnel Required

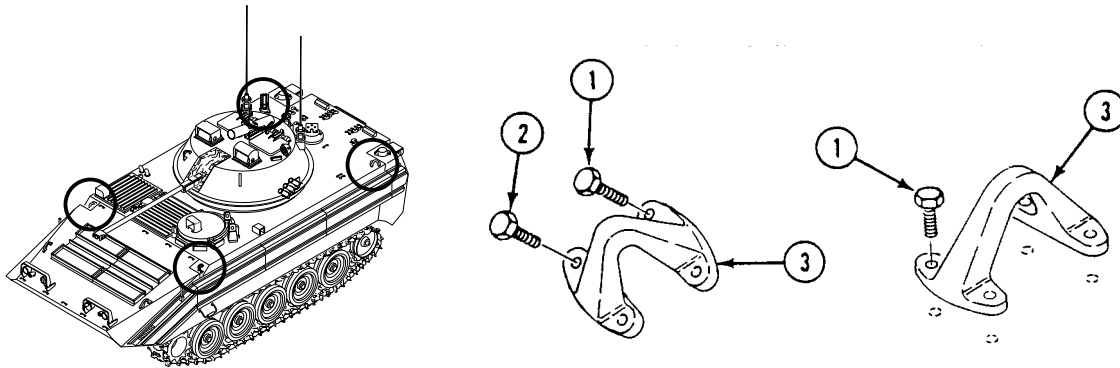
Unit Mechanic 63T10

**REMOVAL**

**NOTE**

**Right front lifting eye has one screw (2) 2-3/4 inches (7 cm) long and three screws 2-1/2 inches (6 cm) long. All other lifting eyes use four screws 2-1/2 inches (6 cm) long.**

1. REMOVE FOUR SCREWS (1) OR SCREWS (1) AND (2) AND LIFTING EYE (3) FROM HULL.



**INSTALLATION**

1. INSTALL LIFTING EYE (3) ON HULL WITH FOUR SCREWS (1) OR SCREWS (1) AND (2).
2. TIGHTEN SCREWS (1) AND (2) TO 175–200 LB-FT (237–271 N·m) TORQUE. USE TORQUE WRENCH.

**END OF TASK**



**REPLACE HEADLIGHT GUARD**

**0325 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0325 00-1).  
 Installation (page 0325 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

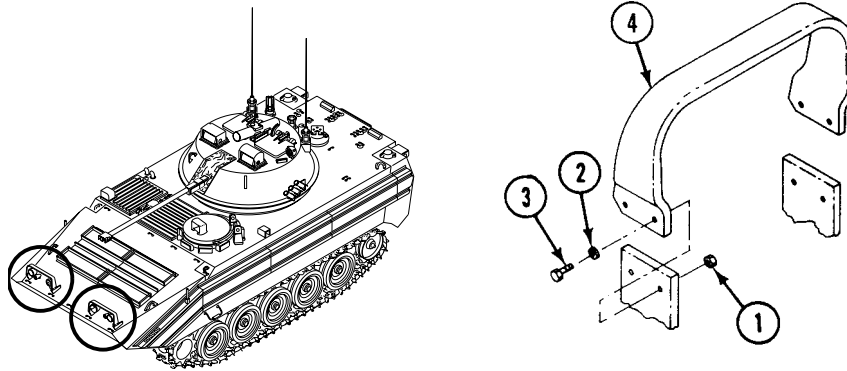
Locknut (8)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)

**REMOVAL**

1. REMOVE FOUR LOCKNUTS (1), WASHERS (2), SCREWS (3), AND RIGHT HEADLIGHT GUARD (4) FROM HULL MOUNT. DISCARD LOCKNUTS.



2. REMOVE FOUR LOCKNUTS (1), WASHERS (2), SCREWS (3), AND LEFT HEADLIGHT GUARD (4) FROM HULL MOUNT. DISCARD LOCKNUTS.

**INSTALLATION**

1. INSTALL LEFT HEADLIGHT GUARD (4) ON HULL MOUNT WITH FOUR WASHERS (2), SCREWS (3), AND NEW LOCKNUTS (1).
2. INSTALL RIGHT HEADLIGHT GUARD (4) ON HULL MOUNT WITH FOUR WASHERS (2), SCREWS (3), AND NEW LOCKNUTS (1).

**END OF TASK**



**REMOVE/REPLACE REAR DOOR CATCH HOOKS**

**0326 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0326 00-1).  
 Installation (page 0326 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Torque wrench, 3/8 inch drive, 15-75 ft-lb  
 (WP 0397 00, Item 80)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)

Personnel Required

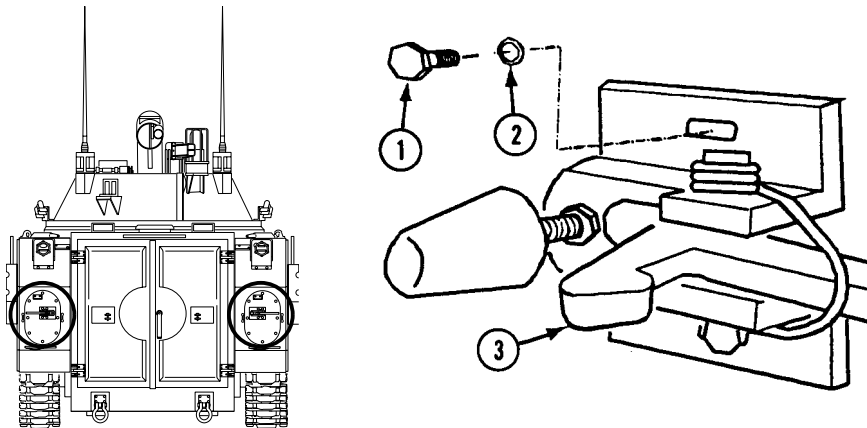
Unit Mechanic 63T10

**REMOVAL**

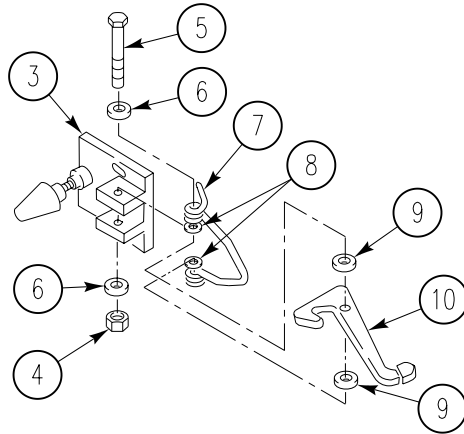
**NOTE**

**The two rear door catch hook assemblies are replaced the same way. One hook assembly is shown. If replacing spring or hook, go to Step 2.**

1. REMOVE TWO SCREWS (1), WASHERS (2), AND CATCH HOOK ASSEMBLY BRACKET (3) FROM REAR DOOR.



- REMOVE NUT (4), SCREW (5), TWO WASHERS (6), SPRING (7), TWO WASHERS (8), TWO WASHERS (9), AND CATCH HOOK (10) FROM CATCH HOOK ASSEMBLY BRACKET (3).



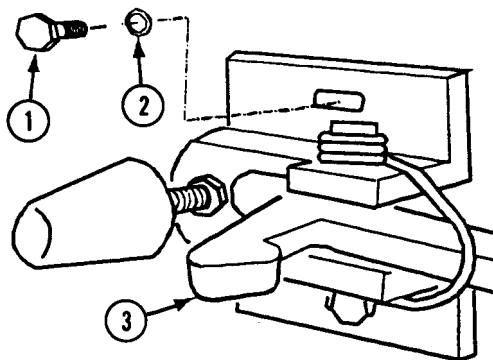
**INSTALLATION**

- INSTALL CATCH HOOK (10), TWO WASHERS (9), TWO WASHERS (8), SPRING (7), TWO WASHERS (6), SCREW (5), AND NUT (4) ON CATCH HOOK ASSEMBLY BRACKET (3).

**NOTE**

**Do not perform Step 2 if spring or hook was replaced.**

- PLACE HOOK ASSEMBLY (3) ON REAR DOOR AND INSTALL TWO WASHERS (2) AND SCREWS (1).
- TIGHTEN TWO SCREWS (1) TO 39 FT-LB (53 N.M). USE TORQUE WRENCH.



**END OF TASK**



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## REMOVE/REPLACE REAR DOOR BUMPER

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0327 00

### THIS WORK PACKAGE COVERS:

Removal (page 0327 00-1).  
 Installation (page 0327 00-1).

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### INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Materials/Parts

Locknut

Vehicle blocked (TM 9-2350-366-10-1)

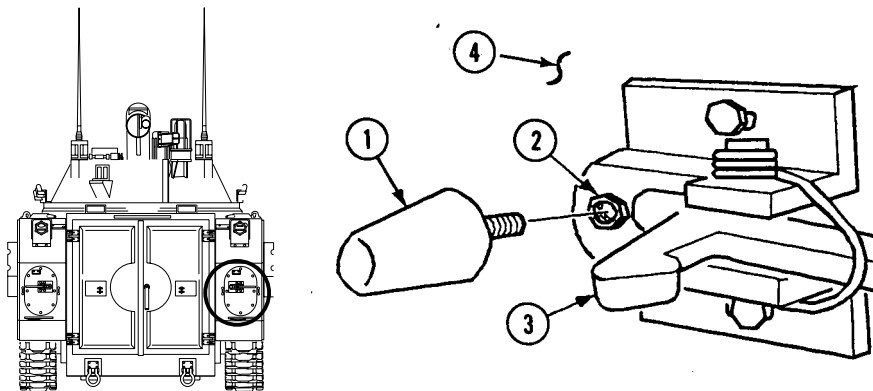
Personnel Required

Unit Mechanic 63T10

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### REMOVAL

1. LOOSEN LOCKNUT (2) ON REAR DOOR BUMPER (1).
2. REMOVE BUMPER (1) WITH LOCKNUT (2) FROM HOOK ASSEMBLY (3). DISCARD LOCKNUT.



### INSTALLATION

1. INSTALL BUMPER (1) WITH NEW LOCKNUT (2) ON HOOK ASSEMBLY (3).
2. ADJUST BUMPER (1) WITH REAR DOOR (4) IN HOOKED POSITION.
3. TIGHTEN LOCKNUT (2) SECURING REAR DOOR BUMPER (1) IN POSITION.

### END OF TASK



**REMOVE/REPLACE RIGHT REAR DOOR HANDLES, HINGES, LATCHES,  
AND CHAIN**

**0328 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0328 00-1).
- Repair or Replacement (page 0328 00-3).
- Installation (page 0328 00-4).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Rear doors opened (TM 9-2350-366-10-1)
- Right rear door removed (WP 0329 00)

Materials/Parts

Spring pin

Personnel Required

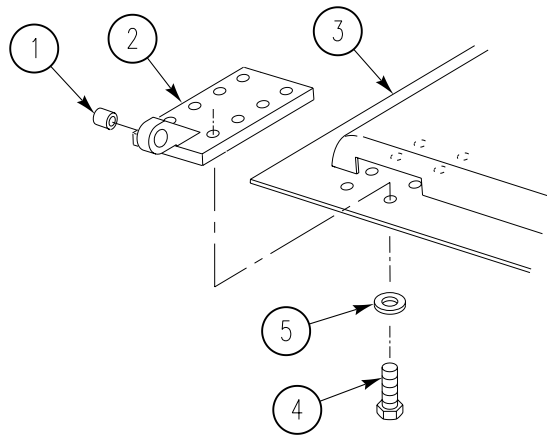
Unit Mechanic 63T10

**REMOVAL**

**NOTE**

**There are two hinges on the door. Both are removed the same way.**

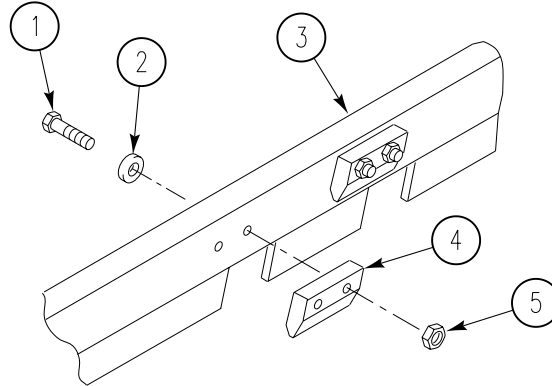
1. REMOVE EIGHT SCREWS (4), WASHERS (5), AND HINGE (2) FROM DOOR (3).
2. REMOVE BEARING (1) FROM HINGE (2).



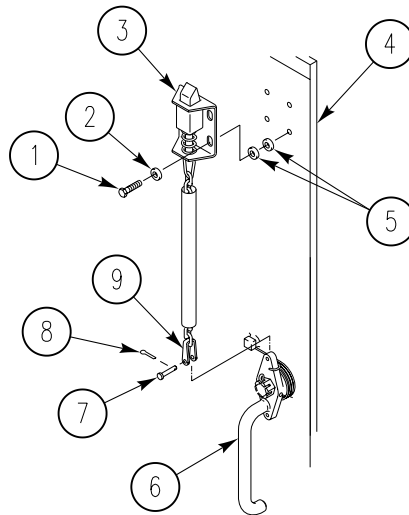
**REMOVE/REPLACE RIGHT REAR DOOR HANDLES, HINGES, LATCHES, AND CHAIN —**  
**Continued**

**0328 00**

3. REMOVE FOUR NUTS (5), SCREWS (1), WASHERS (2), AND TWO STRIKE PLATES (4) FROM DOOR OPENING (3).



4. FROM INSIDE OF DOOR (4) REMOVE EIGHT SCREWS (1), WASHERS (2), TWO LATCH ASSEMBLIES (3), AND FLAT WASHERS (5).
5. REMOVE TWO COTTER PINS (8), HEADED PINS (7), CLEVIS (9), AND TWO LATCH ASSEMBLIES (3) FROM INSIDE HANDLE (6). DISCARD COTTER PINS.

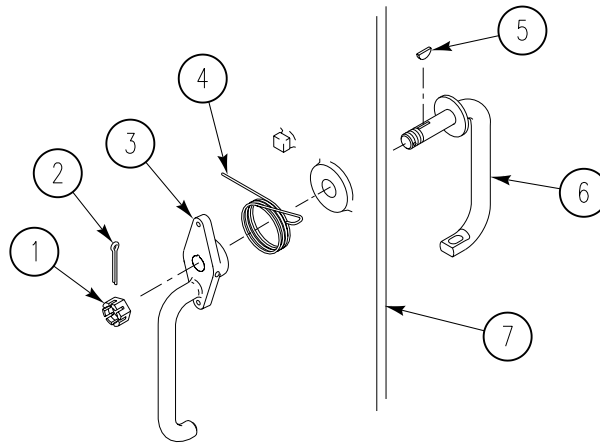


6. REMOVE COTTER PIN (2), NUT (1), INSIDE HANDLE (3), SPRING (4), AND OUTSIDE HANDLE (6) FROM DOOR (7).

**REMOVE/REPLACE RIGHT REAR DOOR HANDLES, HINGES, LATCHES, AND CHAIN —**  
**Continued**

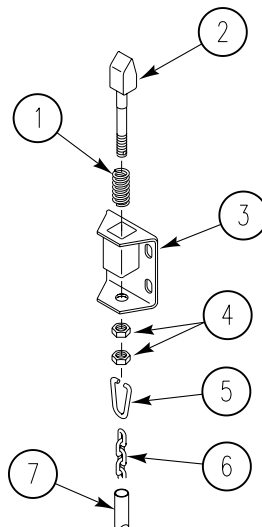
**0328 00**

7. REMOVE KEY (5) FROM OUTSIDE HANDLE (6).



**REPAIR OR REPLACEMENT**

1. DISASSEMBLE LATCH ASSEMBLY.
- a. Remove dee ring (5) from striker (2).
  - b. Remove chain (6) from dee ring (5) and slide hose (7) off of chain (6).
  - c. Remove two nuts (4) from striker (2).
  - d. Remove striker (2) and spring (1) from bracket (3).



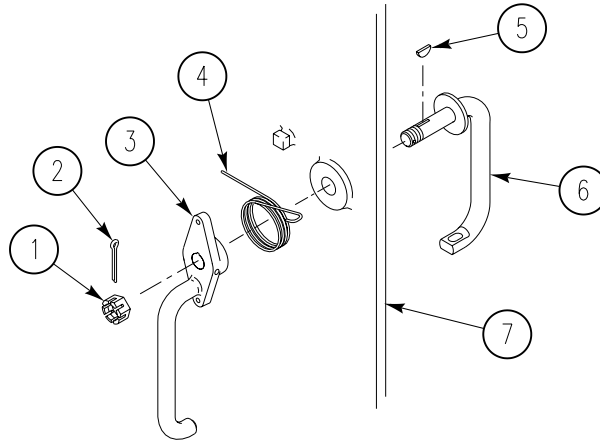
2. ASSEMBLE LATCH ASSEMBLY.
- a. Install spring (1) and striker (2) on bracket (3).
  - b. Install two nuts (4) on striker (2).
  - c. Install hose (7) on chain (6) and chain on dee ring (5).
  - d. Install dee ring (5) on striker (2).

**REMOVE/REPLACE RIGHT REAR DOOR HANDLES, HINGES, LATCHES, AND CHAIN —**  
**Continued**

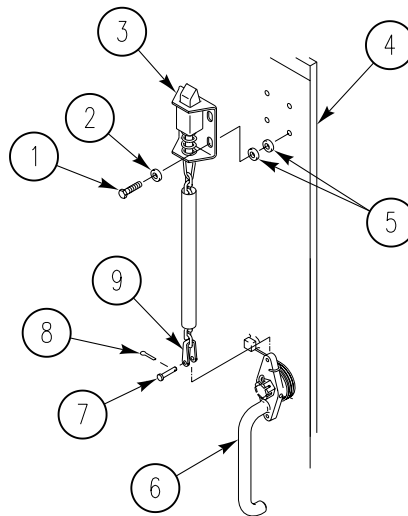
**0328 00**

**INSTALLATION**

1. INSTALL KEY (5) ON OUTSIDE HANDLE (6).
2. INSTALL OUTSIDE HANDLE (6), SPRING (4), INSIDE HANDLE (3), NUT (1), AND NEW COTTER PIN (2) ON DOOR (7).



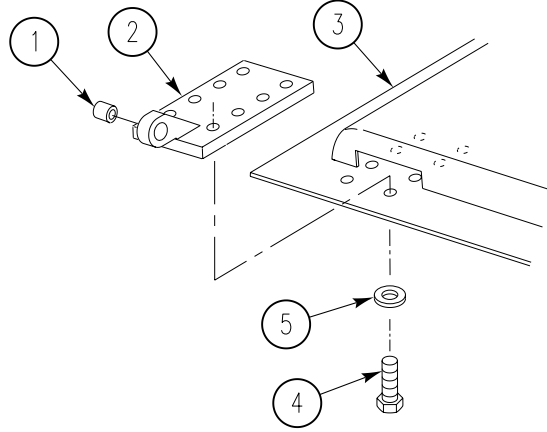
3. INSTALL TWO LATCH ASSEMBLIES (3), CLEVIS (9), HEADED PINS (7), AND NEW COTTER PINS (8) ON INSIDE HANDLE (6).



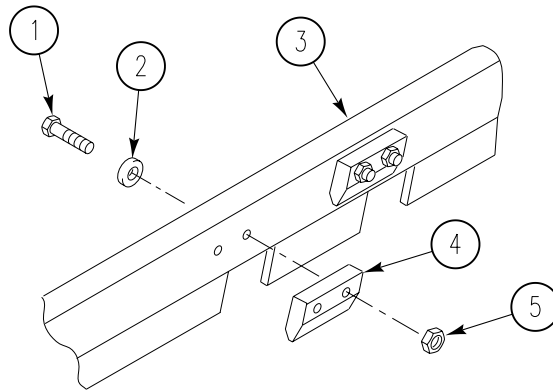
**REMOVE/REPLACE RIGHT REAR DOOR HANDLES, HINGES, LATCHES, AND CHAIN —**  
**Continued**

**0328 00**

4. INSTALL HINGE (2), EIGHT WASHERS (5), AND SCREWS (4) ON DOOR (3).
5. INSTALL BEARING (1) IN HINGE (2).



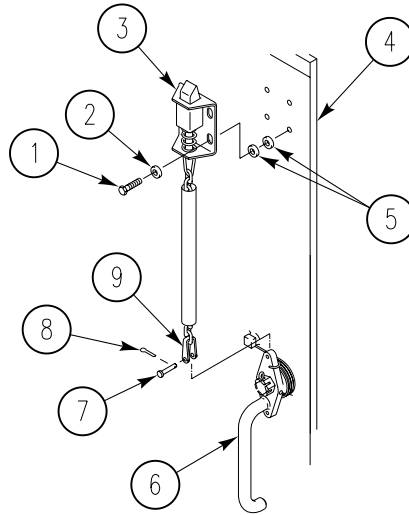
6. INSTALL TWO STRIKE PLATES (4), FOUR WASHERS (2), SCREWS (1), AND NUTS (5) ON DOOR OPENING (3).



**REMOVE/REPLACE RIGHT REAR DOOR HANDLES, HINGES, LATCHES, AND CHAIN —**  
**Continued**

**0328 00**

7. ON INSIDE OF DOOR (4) INSTALL FLAT WASHERS (5), TWO LATCH ASSEMBLIES (3), EIGHT WASHERS (2) AND SCREWS (1).



**END OF TASK**



**REPLACE REAR DOORS, HINGES, AND GASKETS**

**0329 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0329 00-1).  
 Installation (page 0329 00-4).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Endless sling (2) (WP 0397 00, Item 47)

Lifting device

References

TM 9-2350-366-10-1

Materials/Parts

Adhesive (WP 0399 00, Item 5)

Cotter pin (2)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Carrier blocked (TM 9-2350-366-10-1)

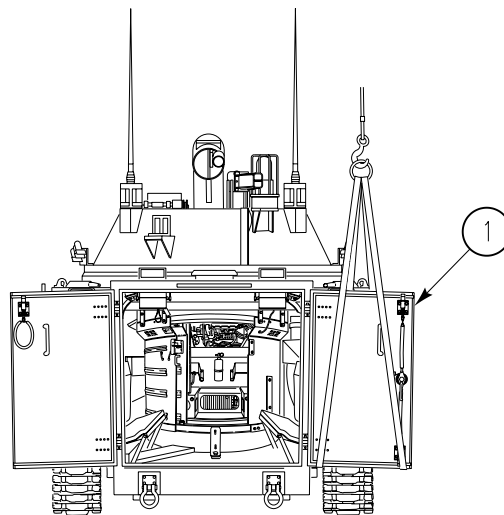
Rear doors opened (TM 9-2350-366-10-1)

**REMOVAL**

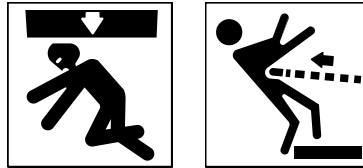
**NOTE**

**Both rear doors are removed and installed the same way. Right door is shown.**

1. ATTACH TWO SLINGS TO DOOR (1).



**WARNING**



Damaged slings can fail when loaded. Breaking slings can strike and injure personnel. Suspended load can fall and crush personnel.

Inspect all slings before use. Do not use damaged slings. Clearly mark all damaged slings as DAMAGED - DO NOT USE.

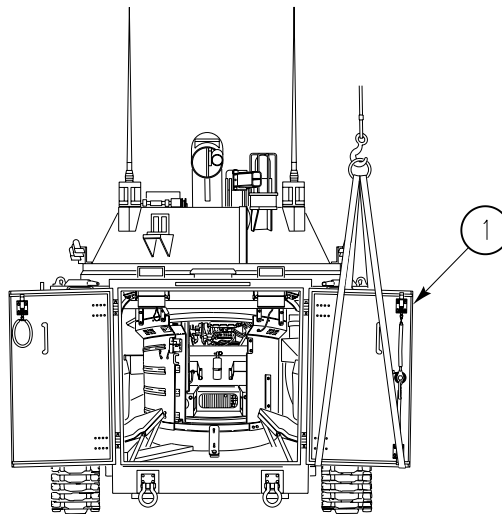
**WARNING**



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.

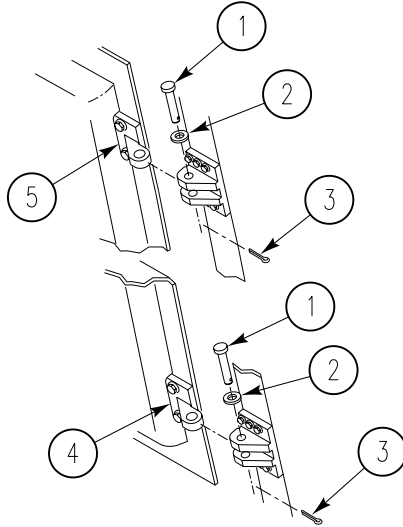
2. ATTACH LIFTING DEVICE TO TWO SLINGS AND REMOVE SLACK.



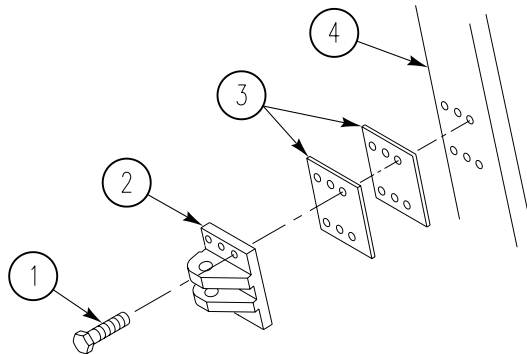
REPLACE REAR DOORS, HINGES, AND GASKETS — Continued

0329 00

3. REMOVE TWO COTTER PINS (3), SHOULDER PINS (1), AND FLAT WASHERS (2) FROM TOP AND BOTTOM OUTER HINGES (5), (4). DISCARD COTTER PINS.



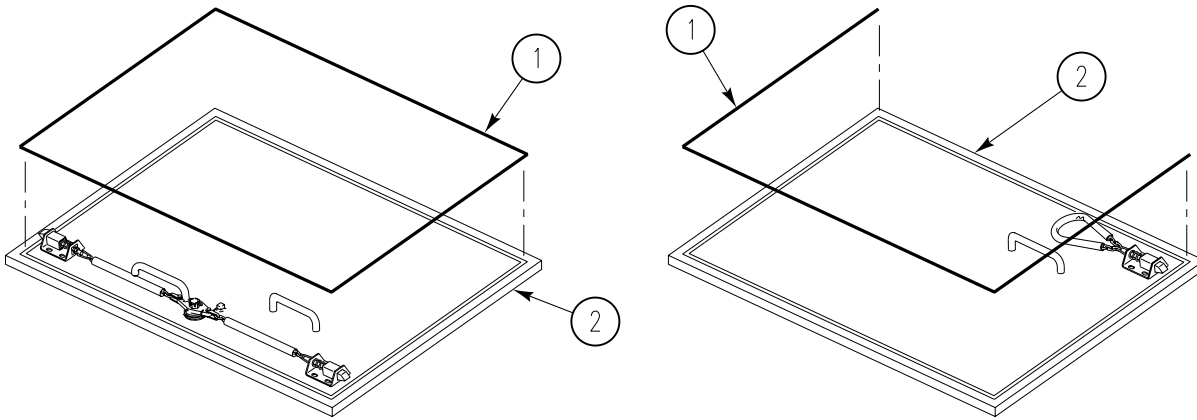
4. REMOVE TWELVE SCREWS (1), TWO HINGES (2), AND SHIMS (3) FROM DOOR OPENING (4).



**NOTE**

Check gaskets on both doors. If there are any cracks or tears or if the door assembly is being replaced the gasket must be replaced, do Step 5 and Step 6.

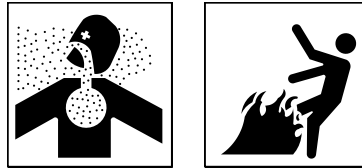
5. PLACE DOOR (2) ON GROUND. KEEP TWO SLINGS AND LIFTING DEVICE ATTACHED.
6. REMOVE GASKET (1) FROM DOOR (2).

**INSTALLATION****NOTE**

If gasket is being replaced, do Step 1 and Step 2.

1. SCRAPE ANY GASKET OR SEALING MATERIAL REMAINING ON DOOR (2).

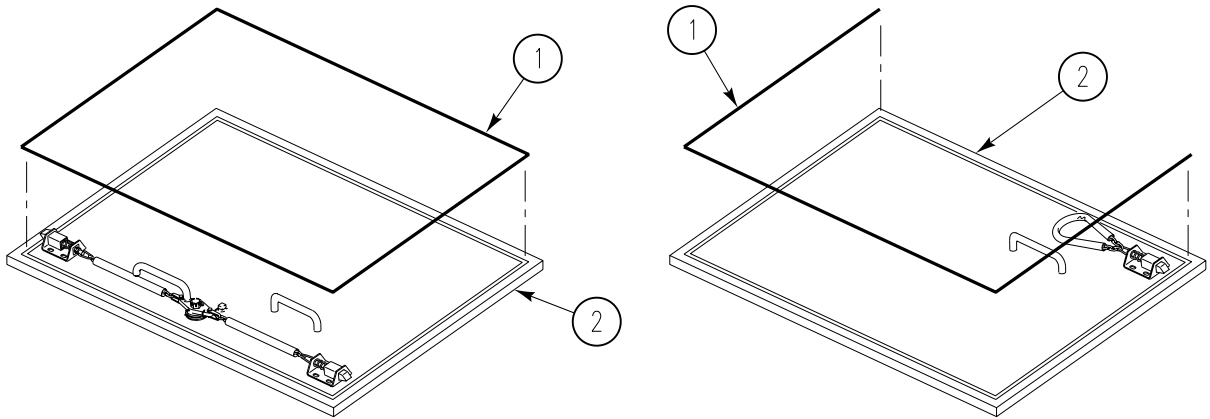
**WARNING**



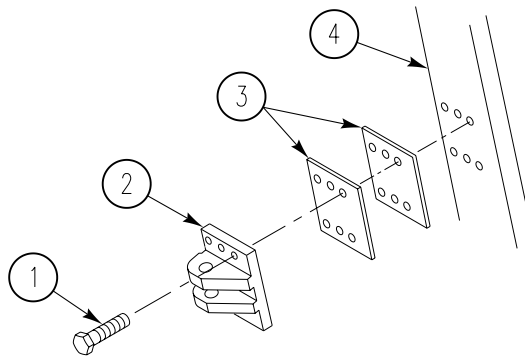
Adhesive, primer, sealant compounds, and isopropyl alcohol are toxic and flammable. These compounds are toxic to eyes, skin, and respiratory tract. Continued exposure can make you dizzy and irritate your eyes and throat.

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.

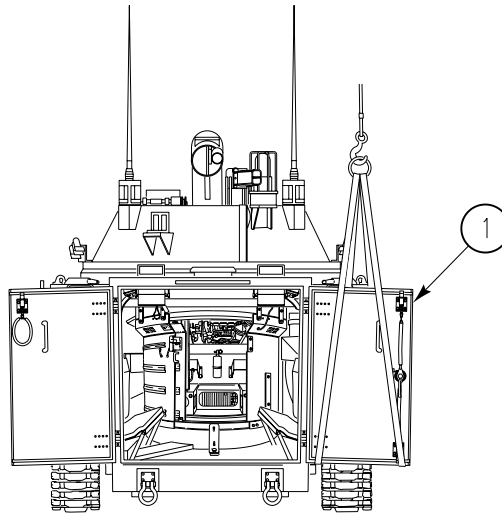
2. APPLY ADHESIVE TO DOOR (2) AND INSTALL GASKET (1).



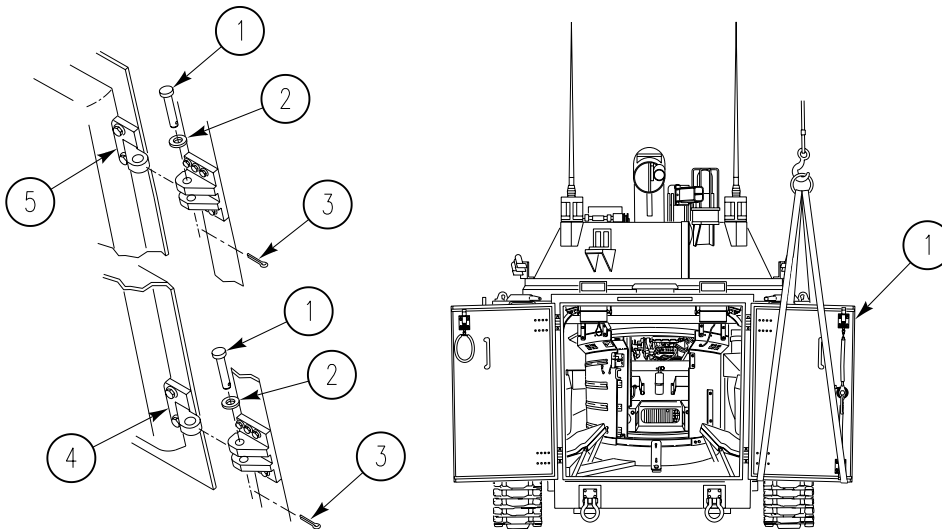
3. INSTALL SHIMS (3), TWO HINGES (2), AND TWELVE SCREWS (1) ON DOOR OPENING (4).



4. LIFT AND PLACE DOOR (1) NEXT TO DOOR OPENING. USE TWO SLINGS AND LIFTING DEVICE.



5. INSTALL TWO FLAT WASHERS (2), SHOULDER PINS (1), AND NEW COTTER PINS (3) IN TOP AND BOTTOM OUTER HINGES (5), (4).



6. REMOVE TWO SLINGS AND LIFTING DEVICE FROM DOOR (1).

**END OF TASK**

**REPLACE LEFT REAR DOOR INSIDE HINGES AND LATCH**

**0330 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0330 00-1).  
 Repair or Replacement (page 0330 00-3).  
 Installation (page 0330 00-4).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Rear doors opened (TM 9-2350-366-10-1)  
 Left rear door removed (WP 0329 00)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

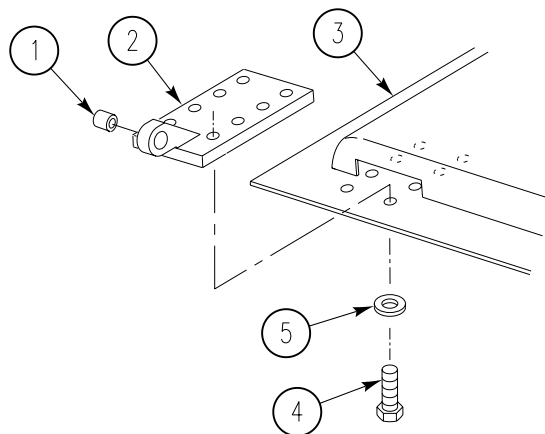
**NOTE**

**If replacing hinge, do Step 1 and 2. If replacing latch, do Step 3 and 4.**

**NOTE**

**There are two hinges on the door. Both are removed the same way.**

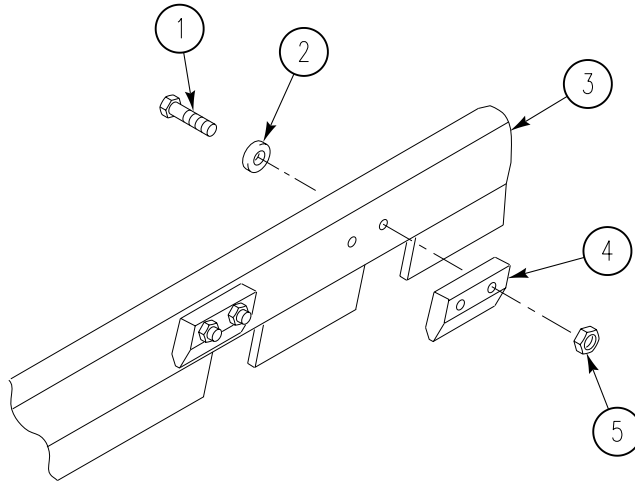
1. REMOVE EIGHT SCREWS (4), WASHERS (5) AND HINGE (2) FROM DOOR (3).
2. REMOVE BEARING (1) FROM HINGE (2).



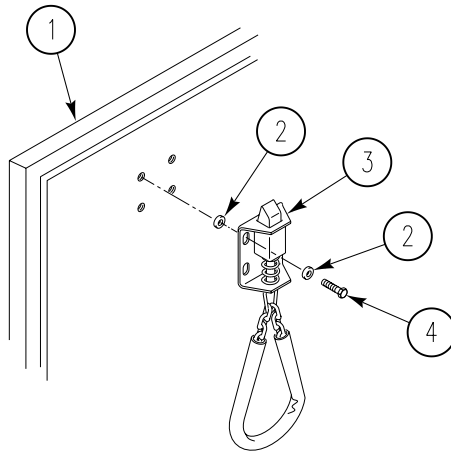
REPLACE LEFT REAR DOOR INSIDE HINGES AND LATCH — Continued

0330 00

3. REMOVE TWO NUTS (5), SCREWS (1), WASHERS (2), AND STRIKE PLATE (4) FROM DOOR OPENING (3).



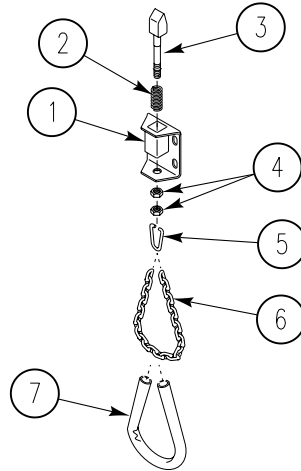
4. FROM INSIDE OF DOOR (1) REMOVE FOUR SCREWS (4), WASHERS (2), LATCH ASSEMBLY (3), AND WASHERS (2).





**REPAIR OR REPLACEMENT**

1. DISASSEMBLE LATCH ASSEMBLY.
  - a. Remove dee ring (5) from striker (3).
  - b. Remove chain (6) from dee ring (5) and slide hose (7) off of chain (6).
  - c. Remove two nuts (4) from striker (3).
  - d. Remove striker (3) and spring (2) from bracket (1).



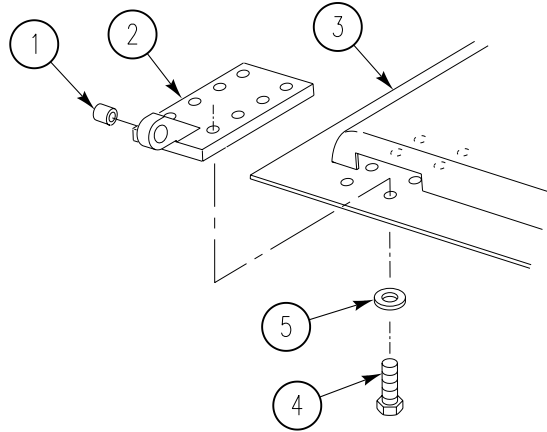
2. ASSEMBLE LATCH ASSEMBLY.
  - a. Install spring (2) and striker (3) on bracket (1).
  - b. Install two nuts (4) on striker (3).
  - c. Install hose (7) on chain (6) and chain on dee ring (5).
  - d. Install dee ring (5) on striker (3).

INSTALLATION

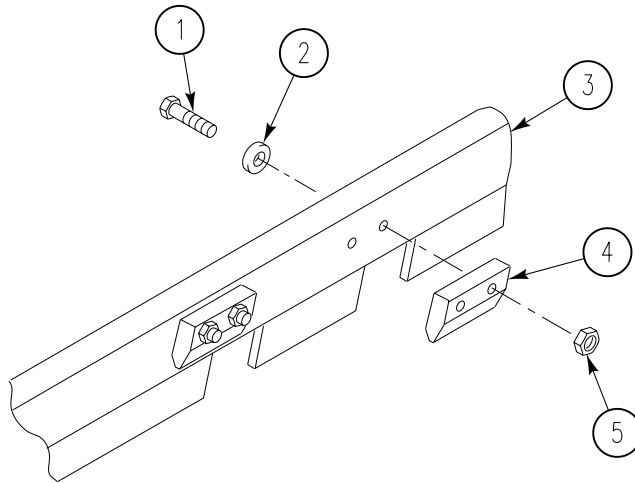
**NOTE**

If installing hinge, do Step 1 and Step 2. If installing latch, do Step 3 and Step 4.

1. INSTALL HINGE (2), EIGHT WASHERS (5), AND SCREWS (4) ON DOOR (3).
2. INSTALL BEARING (1) IN HINGE (2).



3. INSTALL STRIKE PLATE (4), TWO WASHERS (2), SCREWS (1) AND TWO NUTS (5) ON DOOR OPENING (3).



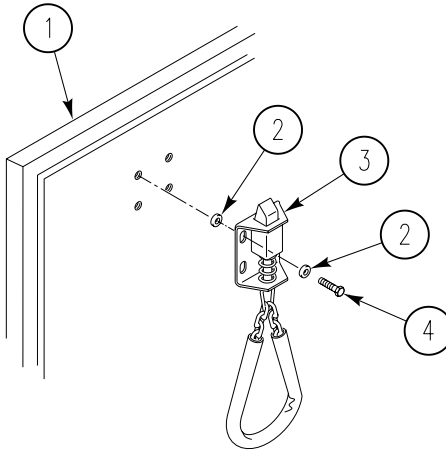
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**REPLACE LEFT REAR DOOR INSIDE HINGES AND LATCH — Continued**

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**0330 00**

4. ON INSIDE OF DOOR (1) INSTALL FOUR WASHERS (2), LATCH ASSEMBLY (3), FOUR WASHERS (2), AND SCREWS (4).

**END OF TASK**



**ADJUST TOW START CONTROL CABLE ASSEMBLY**

**0331 00**

**THIS WORK PACKAGE COVERS:**

Adjustment (page 0331 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Front VISMOD access doors removed (WP 0307 00)

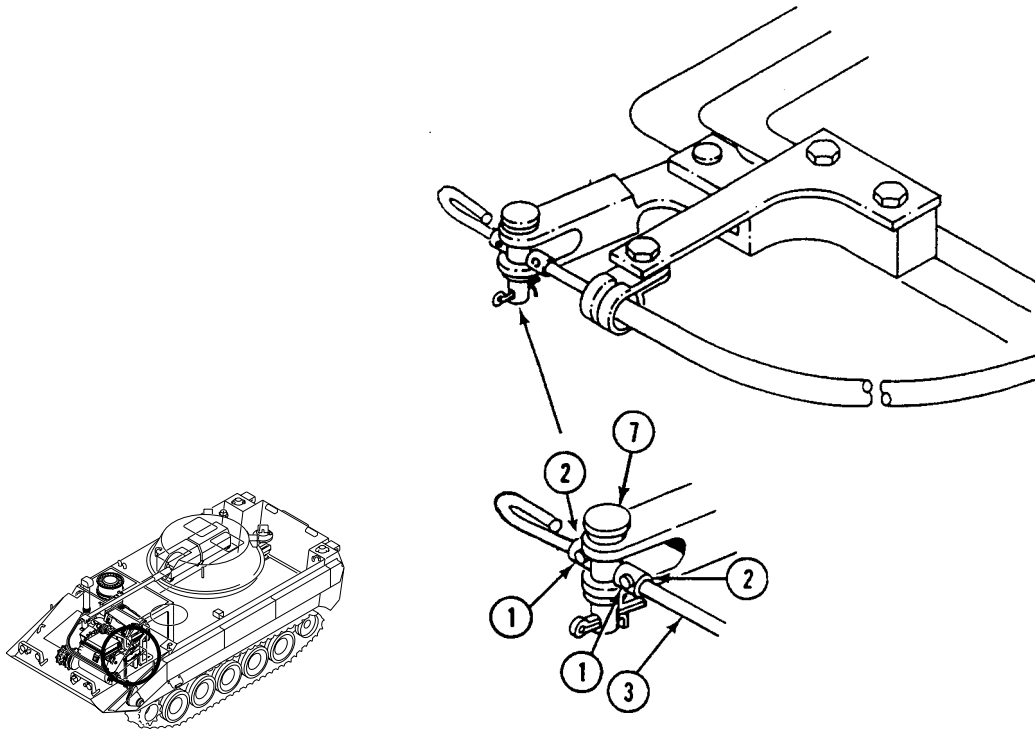
Engine access cover plate removed (WP 0308 00)

Personnel Required

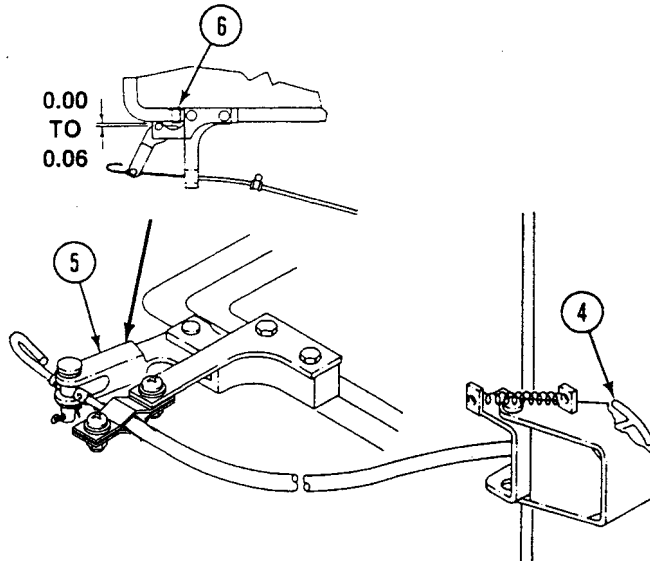
Unit Mechanic 63T10

**ADJUSTMENT**

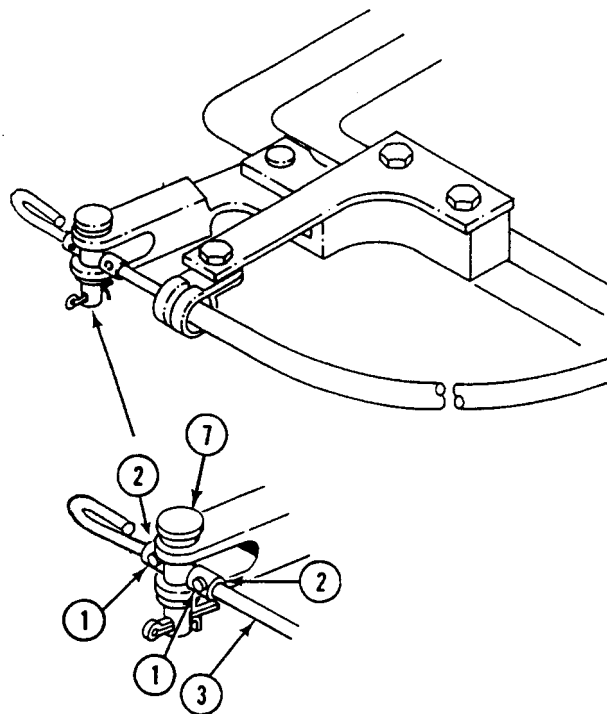
1. LOOSEN TWO SETSCREWS (1) THAT SECURE TWO COLLARS (2) ON CONTROL CABLES (3).



2. PUSH CONTROL ASSEMBLY HANDLE (4) TO FULL IN POSITION. MOVE CONTROL LEVER (5) TO OBTAIN 0.00 TO 0.06 INCH CLEARANCE BETWEEN CONTACT SURFACE OF LEVER AND TRANSMISSION TOW START BUTTON (6).



3. POSITION TWO COLLARS (2) AGAINST CLEVIS PIN (7) AND TIGHTEN TWO SETSCREWS (1).



4. INSTALL ENGINE ACCESS COVER PLATE (WP 0308 00).
5. INSTALL FRONT VISMOD ACCESS DOORS (WP 0308 00).

**END OF TASK**

---

**REPLACE TOW START CONTROL ASSEMBLY AND BEARING**

---

**0332 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0332 00-2).  
 Installation (page 0332 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Socket wrench set (WP 0397 00, Item 69)  
 Torque wrench (WP 0397 00, Item 77)

References

TM 9-2350-366-10-1

Materials/Parts

Cotter pin (2)  
 Locknut

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Front VISM0D access doors removed (WP 0307 00)  
 Engine access cover plate removed (WP 0308 00)

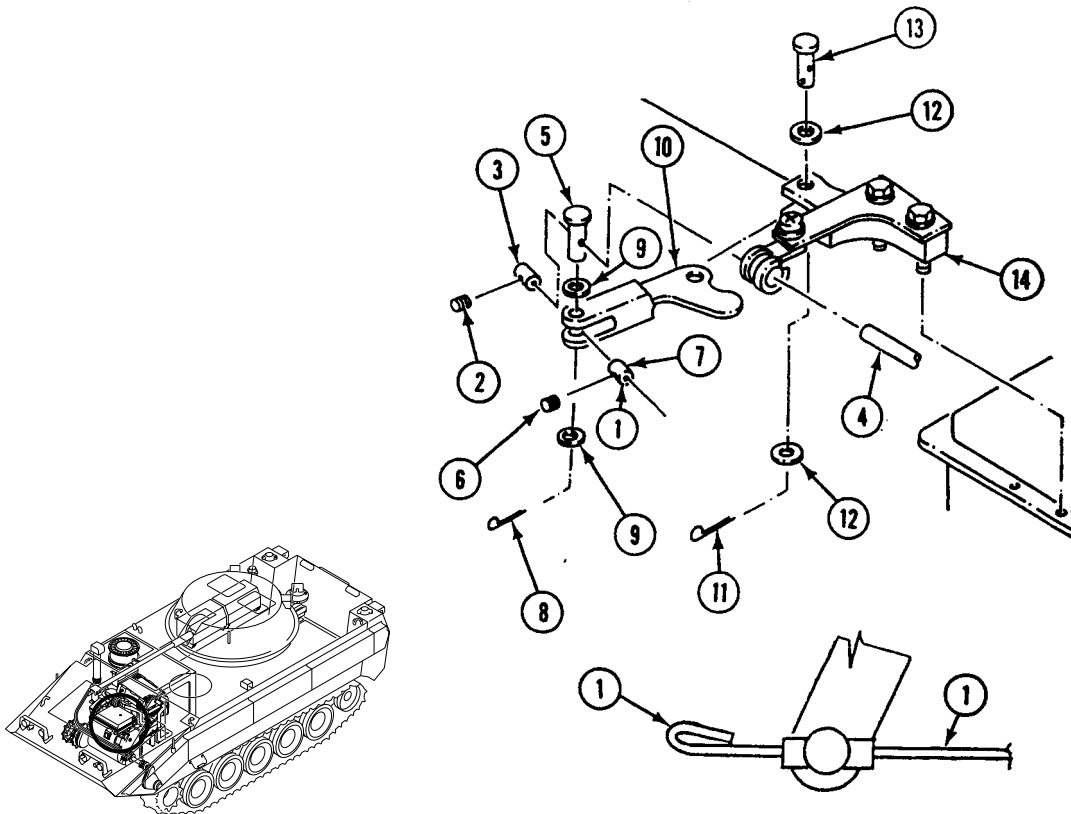
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## REMOVAL

## NOTE

Wire is doubled over itself as a safety measure. If there is nothing wrong or defective with cable assembly or control lever, DO NOT straighten or cut wire.

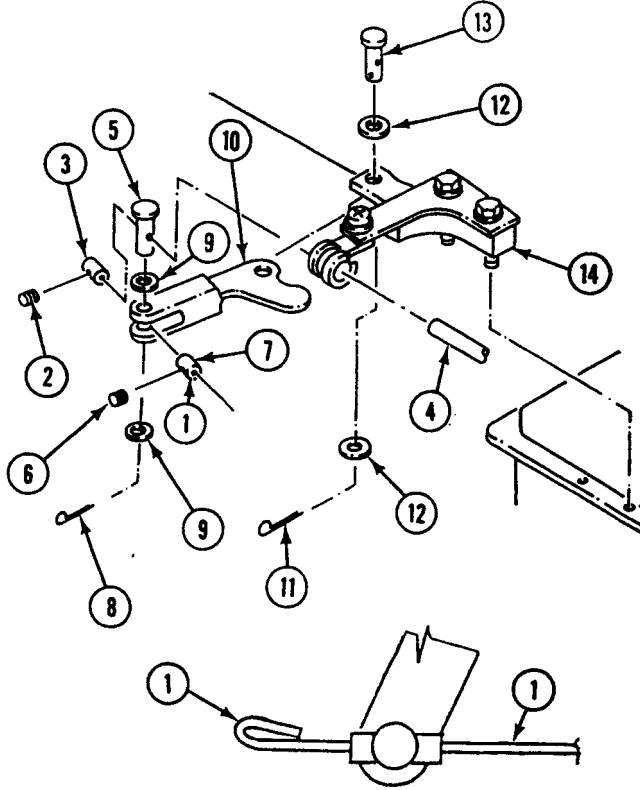
1. STRAIGHTEN OUT WIRE (1) OR CUT OFF WIRE TO ALLOW IT TO BE REMOVED. IF TOO MUCH WIRE IS REMOVED, DISCARD CABLE ASSEMBLY AFTER REMOVAL FROM BULKHEAD.



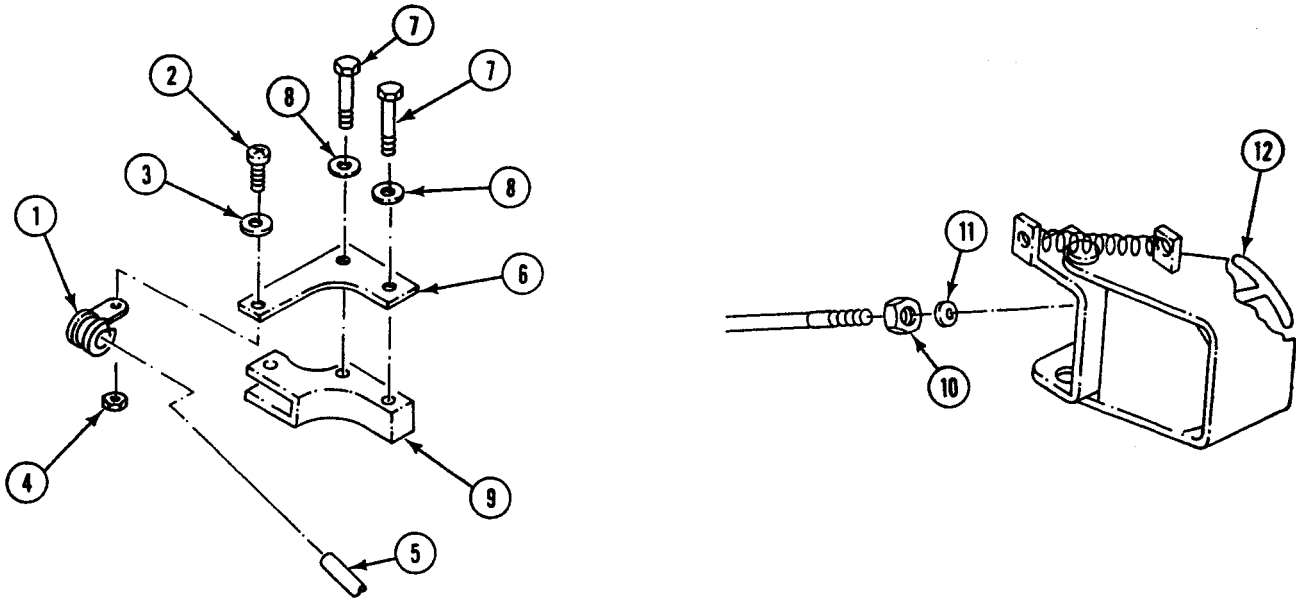
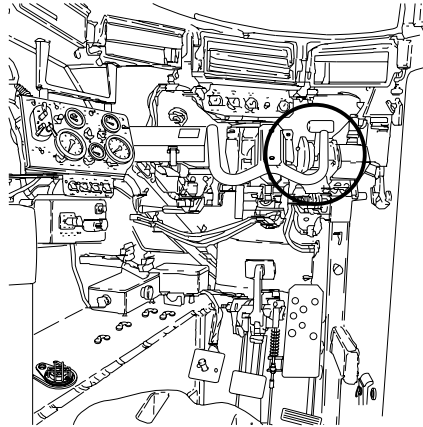
2. LOOSEN FRONT SETSCREW (2) THAT SECURES FRONT COLLAR (3) TO END OF CABLE ASSEMBLY (4). PULL CABLE OUT OF CLEVIS PIN (5) AND LOOSEN REAR SETSCREW (6) ON REAR COLLAR (7). REMOVE FRONT AND REAR COLLAR FROM CABLE ASSEMBLY.
3. REMOVE COTTER PIN (8) AND TWO WASHERS (9) THAT SECURE CLEVIS PIN (5) TO CONTROL LEVER (10). REMOVE CLEVIS PIN FROM CONTROL LEVER. DISCARD COTTER PIN.



4. REMOVE COTTER PIN (11), TWO WASHERS (12), AND CLEVIS PIN (13) THAT SECURE CONTROL LEVER (10) TO BEARING (14). REMOVE CONTROL LEVER FROM BEARING. DISCARD COTTER PIN.



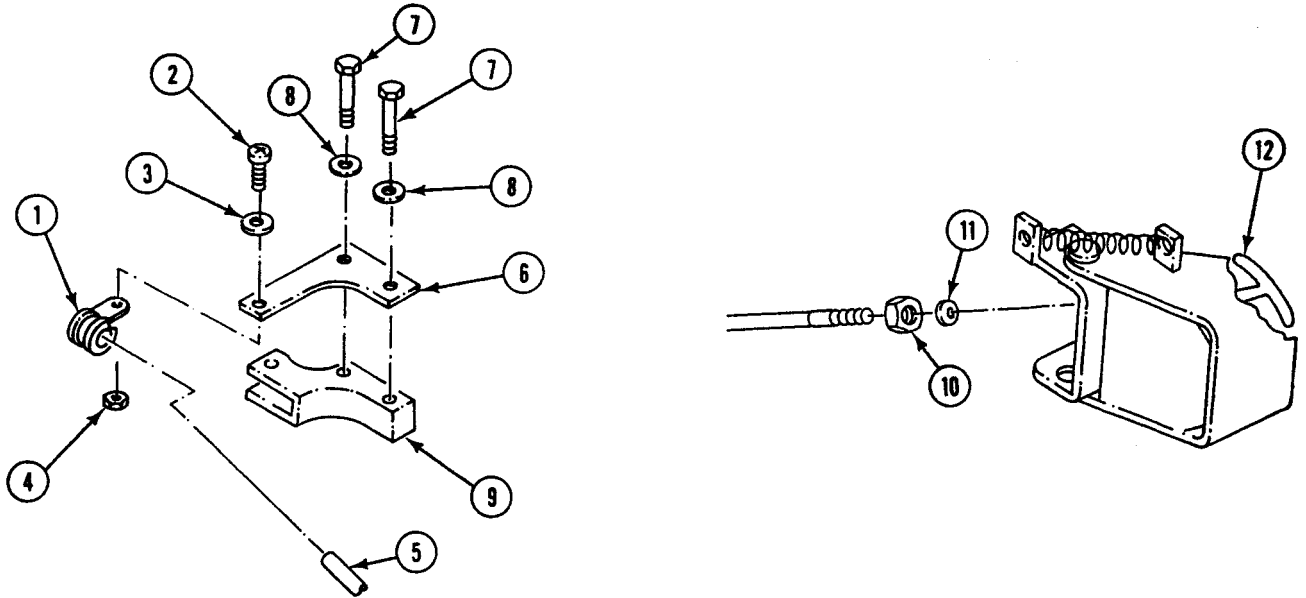
5. REMOVE CLAMP (1), SCREW (2), WASHER (3), AND LOCKNUT (4) THAT SECURE CABLE ASSEMBLY (5) TO CABLE BRACKET (6). REMOVE CLAMP FROM CABLE. DISCARD LOCKNUT.
6. REMOVE TWO SCREWS (7) AND WASHERS (8) THAT SECURE CABLE BRACKET (6) AND BEARING (9) TO TOP OF TRANSMISSION. REMOVE BRACKET AND BEARING FROM TRANSMISSION.
7. REMOVE JAMNUT (10) AND WASHER (11) FROM LOWER END ON THREADED CABLE CONDUIT THAT SECURES CABLE ASSEMBLY (12) IN ENGINE COMPARTMENT. REMOVE OR DISCARD CABLE ASSEMBLY IF WIRE IS TOO SHORT TO BE SECURED BY COLLARS AND WIRE BENT OVER ITSELF.



**INSTALLATION**

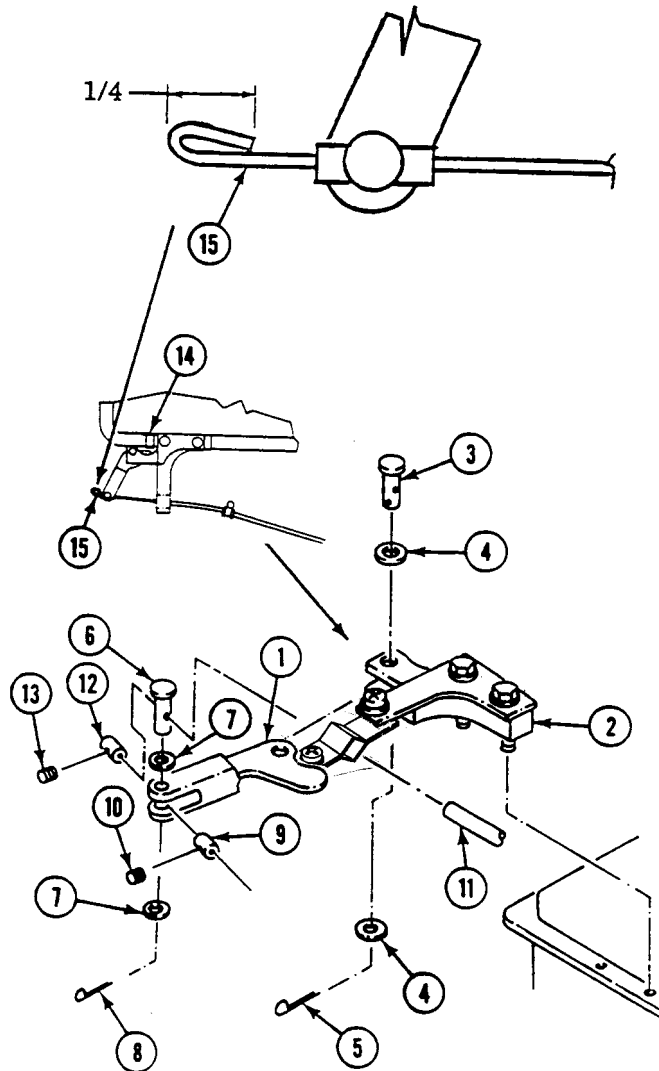
1. ROUTE CABLE ASSEMBLY (12) FROM DRIVER'S COMPARTMENT THROUGH MOUNTING HOLE IN BULKHEAD.

2. INSTALL JAM NUT (10) AND WASHER (11) IN THREADED CONDUIT END OF CONTROL CABLE ASSEMBLY (12). TIGHTEN JAM NUT.

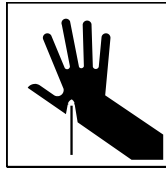


3. INSTALL CABLE BRACKET (6) AND BEARING (9) ON TOP OF TRANSMISSION. SECURE WITH TWO SCREWS (7) AND WASHERS (8). TIGHTEN SCREWS TO 18–20 LB-FT (24–27 N·m) TORQUE.
4. PLACE CABLE CLAMP (1) ON CONDUIT END OF CABLE ASSEMBLY (5). INSTALL CABLE CLAMP WITH CABLE ASSEMBLY ON BRACKET (6). SECURE WITH SCREW (2), WASHER (3), AND NEW LOCKNUT (4).

5. INSTALL CONTROL LEVER (1) INTO BEARING (2). SECURE WITH CLEVIS PIN (3), TWO WASHERS (4), AND NEW COTTER PIN (5).



6. INSTALL CLEVIS PIN (6) ON CONTROL LEVER (1). SECURE WITH TWO WASHERS (7) AND NEW COTTER PIN (8).
7. INSTALL REAR COLLAR (9) WITH REAR SETSCREW (10) ONTO CABLE END OF CABLE ASSEMBLY (11). INSERT END OF CABLE THROUGH MOUNTING HOLE ON CLEVIS PIN (6). INSTALL FRONT COLLAR (12) WITH FRONT SETSCREW (13) ON CABLE ASSEMBLY.
8. PUSH CONTROL HANDLE TO FULL IN POSITION. MOVE LEVER (1) UNTIL CONTACT IS MADE WITH SURFACE OF TOW START BUTTON (14). ADJUST TOW START BUTTON (14).
9. TIGHTEN SETSCREWS (10)(13).

**WARNING**

**Damaged wire rope can seriously injure you.**

**Inspect wire rope before handling it. Wear heavy gloves to protect hands from sharp broken wires.**

10. DOUBLE WIRE (15) OVER ITSELF 1/4 INCH (6 MM) MINIMUM, AS SHOWN.
11. INSTALL ENGINE ACCESS COVER PLATE (WP 0308 00).
12. INSTALL FRONT VISMOD ACCESS DOORS (WP 0307 00).

**END OF TASK**



**REPLACE TOW START CONTROL ASSEMBLY COVER**

**0333 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0333 00-1).
- Installation (page 0333 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Cotter pin
- Marker

References

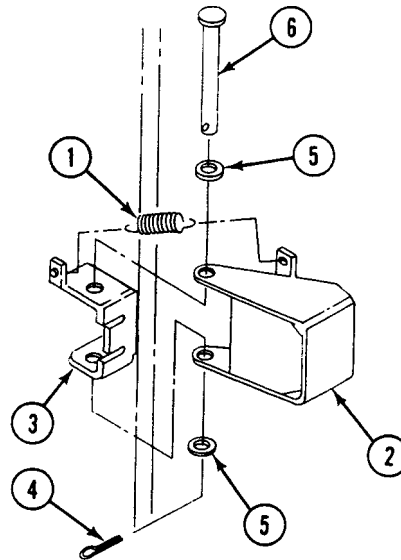
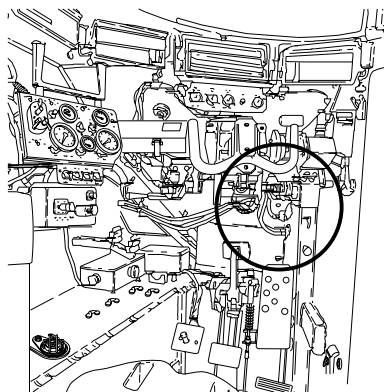
TM 9-2350-366-10-1

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)

**REMOVAL**

1. REMOVE SPRING (1) FROM COVER (2) AND BULKHEAD WELDED BRACKET (3).
2. REMOVE COTTER PIN (4), TWO WASHERS (5), PIN (6), AND CONTROL COVER (2) FROM BULKHEAD WELDED BRACKET (3). DISCARD COTTER PIN.



**INSTALLATION**

1. INSTALL NEW CONTROL COVER (2) ON BULKHEAD WELDED BRACKET (3) WITH PIN (6), TWO WASHERS (5), AND NEW COTTER PIN (4).
2. INSTALL SPRING (1) ON COVER (2) AND BULKHEAD WELDED BRACKET (3).
3. INSTALL NEW MARKER (WP 0105 00).

**END OF TASK**





CHAPTER 29

UNIT MAINTENANCE INSTRUCTIONS  
FOR HULL DRAIN PLUGS

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**WORK PACKAGE INDEX**

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| <u>Title</u>                  | <u>Sequence No.</u> |
|-------------------------------|---------------------|
| REPLACE HULL DRAIN PLUGS..... | 0334 00             |



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**REPLACE HULL DRAIN PLUGS**

**0334 00**

---

**THIS WORK PACKAGE COVERS:**

- Removal (page 0334 00-1).
  - Installation (page 0334 00-1).
- 

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

Antiseize compound (WP 0399 00, Item 10)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Personnel Required

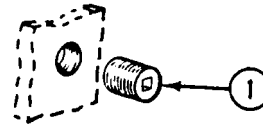
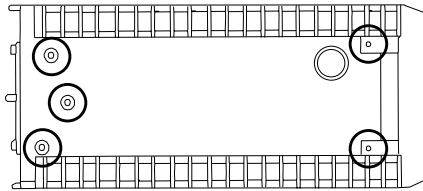
Unit Mechanic 63T10

Vehicle blocked (TM 9-2350-366-10-1)

---

**REMOVAL**

1. REMOVE FIVE DRAIN PLUGS (1) FROM HULL.



**INSTALLATION**

1. COAT THREADS OF FIVE DRAIN PLUGS (1) WITH ANTISEIZE COMPOUND. INSTALL FIVE DRAIN PLUGS IN HULL.

**END OF TASK**



CHAPTER 30

UNIT MAINTENANCE INSTRUCTIONS  
FOR POWER PLANT GRILL

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**WORK PACKAGE INDEX**

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| <u>Title</u>                           | <u>Sequence No.</u> |
|--|---------------------|
| REMOVE/INSTALL POWER PLANT GRILLE..... | 0335 00             |
| INSPECT POWER PLANT SLING.....         | 0336 00             |



**REMOVE/INSTALL POWER PLANT GRILLE**

**0335 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0335 00-1).  
 Installation (page 0335 00-5).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Caulking gun (WP 0397 00, Item 16)
- Socket adapter (WP 0397 00, Item 1)
- Torque wrench (WP 0397 00, Item 84)
- Endless sling (3) (WP 0397 00, Item 47)
- Lifting device with rated lift capability of at least 1500 lb

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Carrier blocked (TM 9-2350-366-10-1)
- Hull nose assembly removed (WP 0313 00)
- Front power plant access doors removed (TM 9-2350-366-10-1)
- Driver's power plant access panel removed (TM 9-2350-366-10-1)
- Power plant upper rear access panel removed (TM 9-2350-366-10-1)
- Cooling system drained (WP 0155 00)
- Ventilating fan drive belt removed (WP 0148 00)
- Muffler extension and cap removed (WP 0151 00)

Materials/Parts

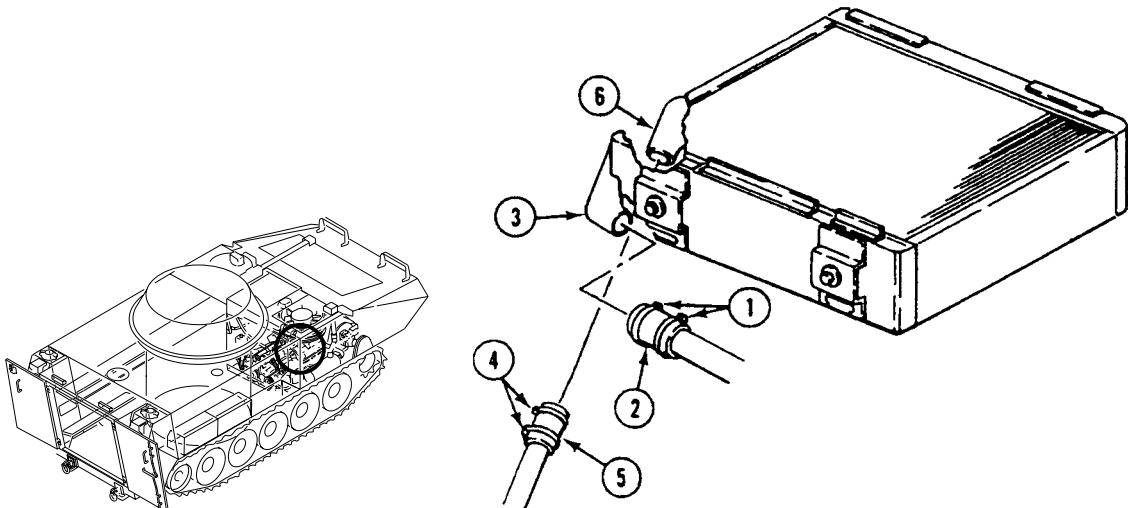
- Caulking compound (WP 0399 00, Item 13)
- Self-locking nut (2)

Personnel Required

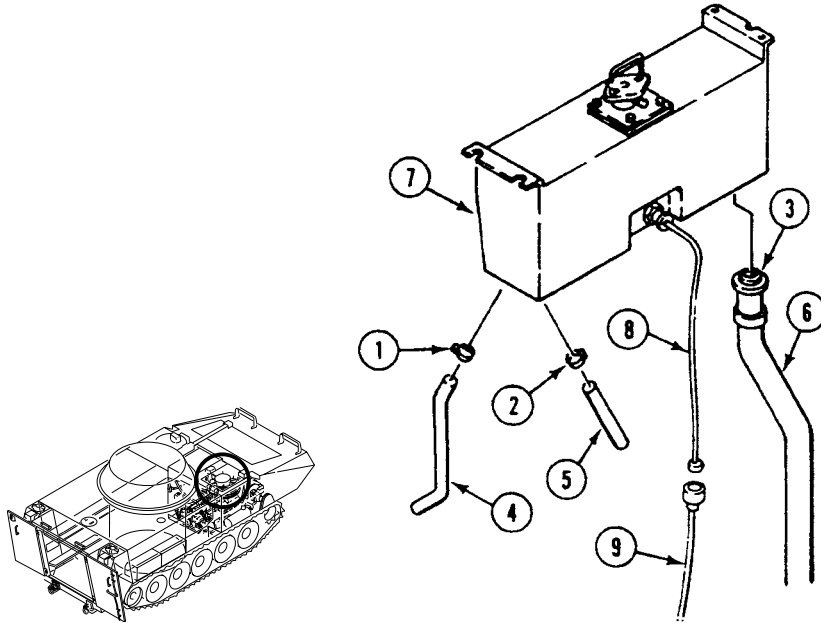
- Unit Mechanic 63T10
- Helper (H)

**REMOVAL**

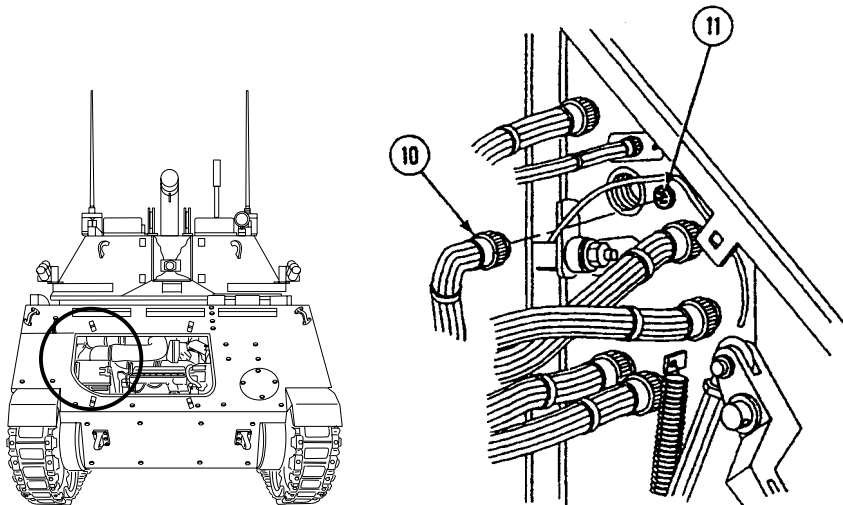
1. LOOSEN TWO CLAMPS (1) ON HOSE (2). SLIDE CLAMPS AND HOSE AWAY FROM RADIATOR INLET ELBOW (3).
2. LOOSEN TWO CLAMPS (4) ON HOSE (5). SLIDE CLAMPS AND HOSE AWAY FROM RADIATOR OUTLET ELBOW (6).



3. LOOSEN THREE CLAMPS (1), (2), AND (3) ON HOSES (4), (5), AND (6). DISCONNECT HOSES FROM AUXILIARY TANK (7).
4. DISCONNECT AUXILIARY FLUID LEVEL DETECTOR (8) FROM CABLE (9).



5. DISCONNECT CANNON PLUG OF HEADLIGHT WIRING HARNESS (10) FROM HULL (11).

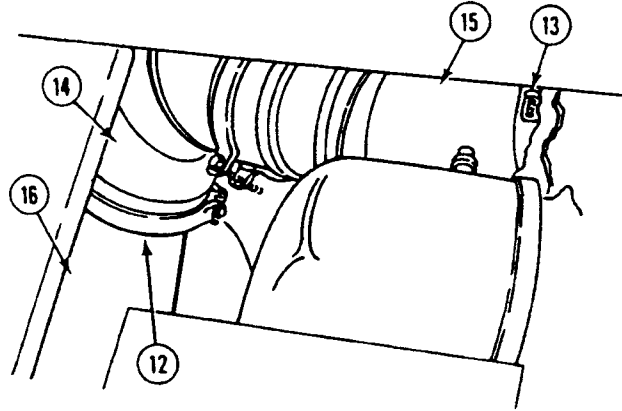
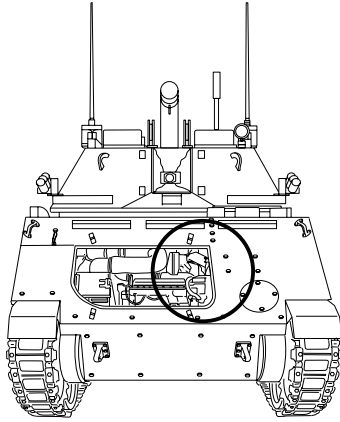




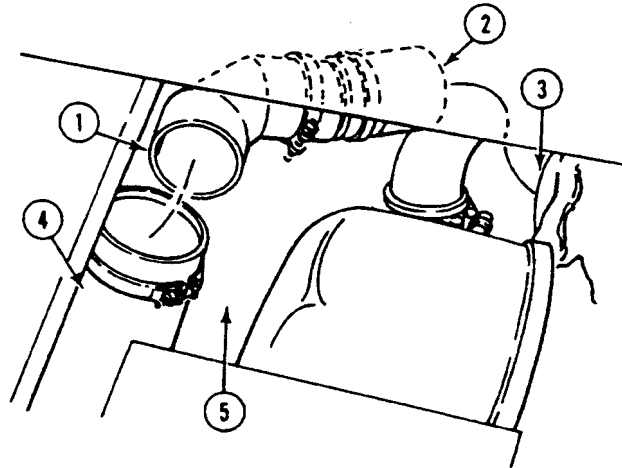
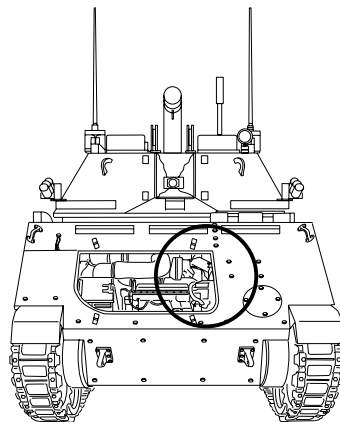
REMOVE/INSTALL POWER PLANT GRILLE — Continued

0335 00

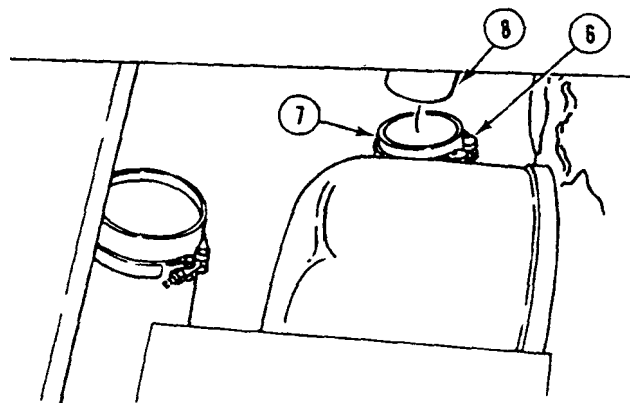
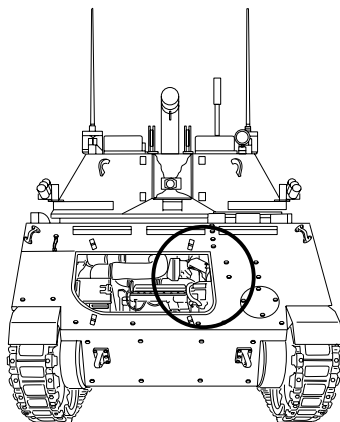
6. LOOSEN TWO CLAMPS (12) AND (13) ON EXHAUST ELBOWS (14) AND (15). SLIDE CLAMP (12) ON TO MUFFLER INLET PIPE (16) AND OTHER CLAMP (13) ON TO EXHAUST ELBOW (15).



7. REMOVE TWO ELBOWS (1) AND (2) FROM TURBO (3) AND MUFFLER (4) AND SET ON SPONSON (5).



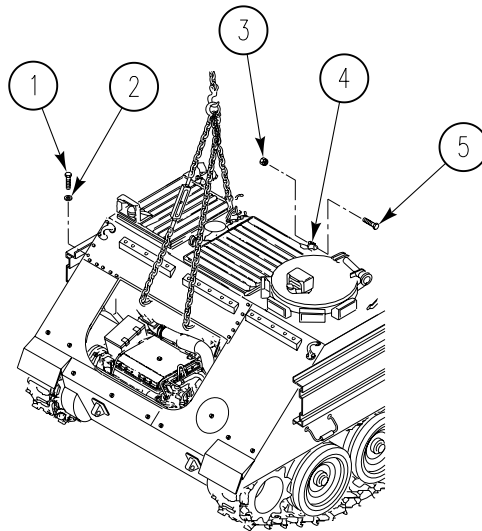
8. LOOSEN CLAMP (6) ON LOWER INTAKE HOSE (7). SLIDE HOSE OFF ELBOW (8).



**NOTE**

Note location of 14 screws removed. One is the lifting eye screw and two are coarse threaded screws.

9. REMOVE 14 SCREWS (1) AND WASHERS (2) FROM POWER PLANT GRILLE (4).
10. REMOVE TWO SCREWS (5) AND LOCKNUTS (3) FROM TWO LUGS ON GRILLE (4). DISCARD LOCKNUTS.



11. LOOP THREE ENDLESS SLINGS THROUGH POWER PLANT DOOR LIFTING EYES AND INSTALL ON LIFTING DEVICE.

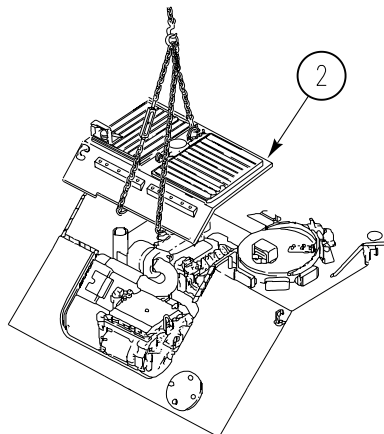
**CAUTION**

To prevent damage to fan, radiator, and elbows, lower grille onto wood blocks or suitable frame that will support edge of grille.

**NOTE**

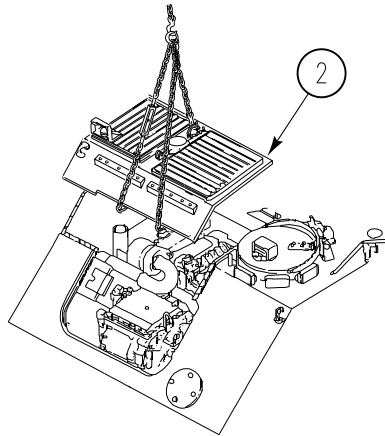
The grille must be removed vertically.

12. LIFT AND REMOVE GRILLE (2) FROM VEHICLE. LOWER GRILLE ONTO WOOD BLOCKS OR SUITABLE FRAME. HAVE HELPER ASSIST.



**INSTALLATION**

1. CLEAN GRILLE AND HULL MATING SURFACES AND THEN APPLY CAULKING COMPOUND.
2. LIFT GRILLE (2) FROM WOOD BLOCKS/FRAME AND LOWER INTO PLACE ON VEHICLE. HAVE HELPER ASSIST.

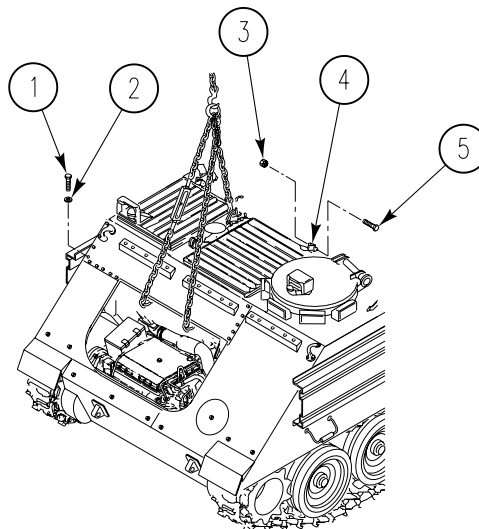


3. SECURE GRILLE (4) TO HULL WITH TWO SCREWS (5) AND NEW LOCKNUTS (3).
4. REMOVE THREE ENDLESS SLINGS FROM GRILLE AND LIFTING DEVICE.

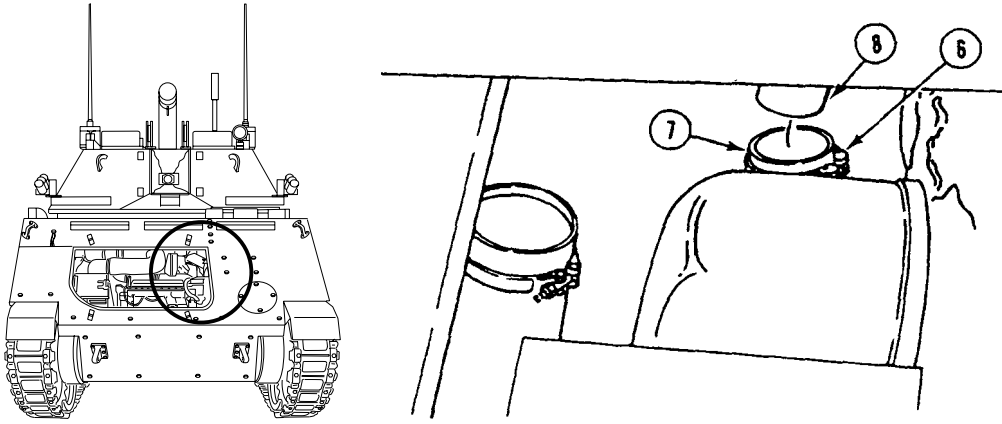
**CAUTION**

**Of the 14 screws removed, one is the lifting eye screw and two are coarse threaded screws.  
Make sure the different screws are installed in their proper places.**

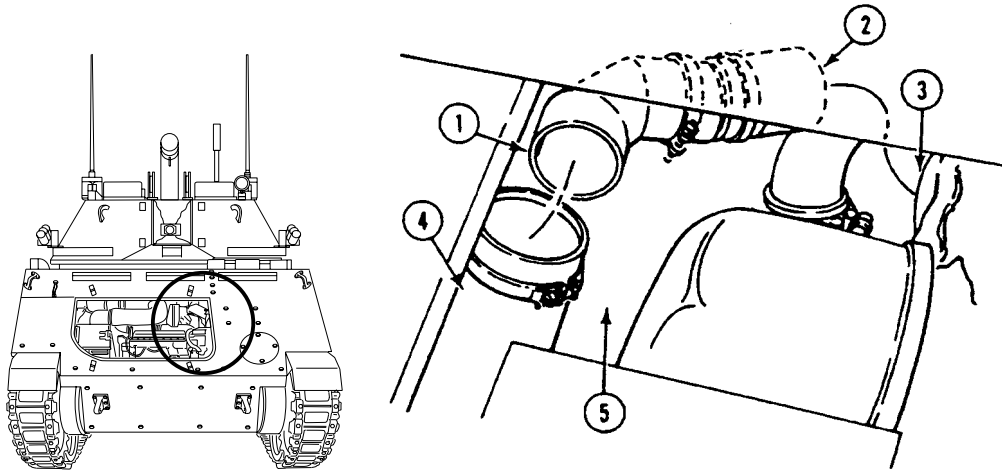
5. SECURE GRILLE (4) TO HULL WITH 14 SCREWS (1) AND WASHERS (2). TIGHTEN LIFTING EYE SCREW TO 175-200 LB-FT (237-271 Nm) TORQUE. TIGHTEN TWO COARSE THREADED SCREWS TO 151-166 LB-FT (205-225 Nm) TORQUE. TIGHTEN 11 SCREWS TO 100-120 LB-FT (136-163 Nm) TORQUE.



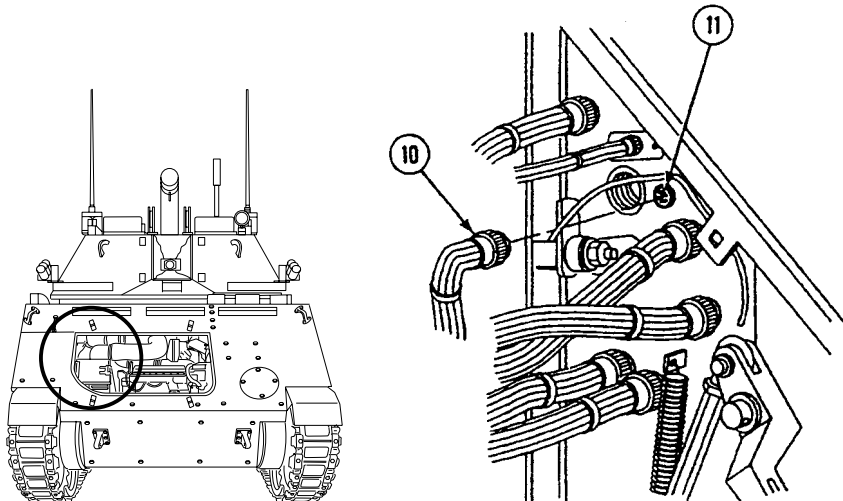
6. INSTALL LOWER INTAKE HOSE (7) ON ELBOW (8). SECURE WITH CLAMP (6).



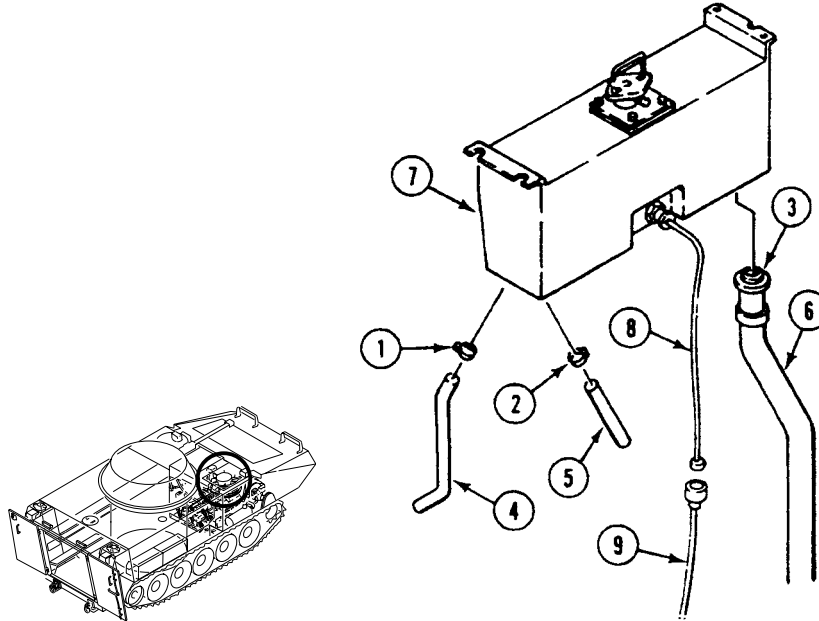
7. INSTALL TWO ELBOWS (1) AND (2) ON TURBO (3) AND MUFFLER (4). SECURE WITH TWO CLAMPS (5).



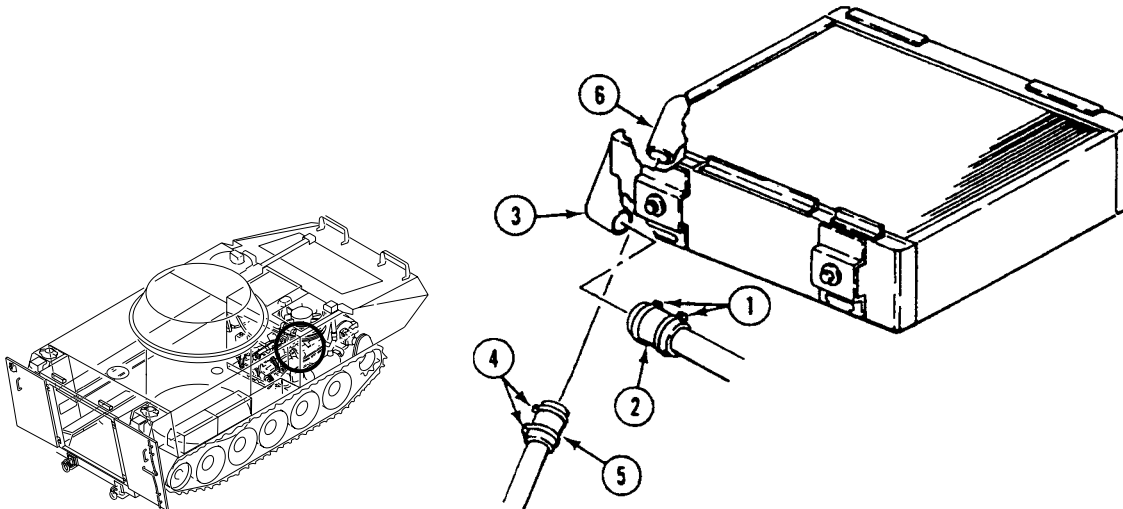
8. CONNECT CANNON PLUG OF HEADLIGHT WIRING HARNESS (10) TO HULL (11).



9. CONNECT AUXILIARY FLUID DETECTOR (8) ON AUXILIARY TANK (7) TO CABLE (9).
10. INSTALL THREE HOSES (4), (5), AND (6) ON AUXILIARY TANK (7). SECURE WITH THREE CLAMPS (1), (2), AND (3).



11. INSTALL TWO HOSES (2) AND (5) ON TWO ELBOWS (3) AND (6). TIGHTEN FOUR CLAMPS (1) AND (4).



12. INSTALL MUFFLER EXTENSION AND CAP (WP 0151 00).
13. INSTALL VENTILATING FAN DRIVE BELT (WP 0148 00).
14. FILL COOLING SYSTEM (WP 0155 00).
15. INSTALL POWER PLANT UPPER REAR ACCESS PANEL. See TM 9-2350-366-10-1.
16. INSTALL DRIVER'S POWER PLANT ACCESS PANEL. See TM 9-2350-366-10-1.
17. INSTALL DRIVER'S POWER PLANT ACCESS DOORS. See TM 9-2350-366-10-1.
18. INSTALL HULL NOSE ASSEMBLY (WP 0313 00).

**END OF TASK**



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**INSPECT POWER PLANT SLING**

**0336 00**

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**THIS WORK PACKAGE COVERS:**

- Periodic Check (page 0336 00-1).
  - Preoperative Check (page 0336 00-7).
- 

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Drill set (WP 0397 00, Item 17)
- Measuring tape (WP 0397 00, Item 57)
- Suitable lifting device

Equipment Condition

Sling suspended from suitable lifting device

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**INSPECTION-ACCEPTANCE AND REJECTION CRITERIA**

**PERIODIC CHECK**

**WARNING**

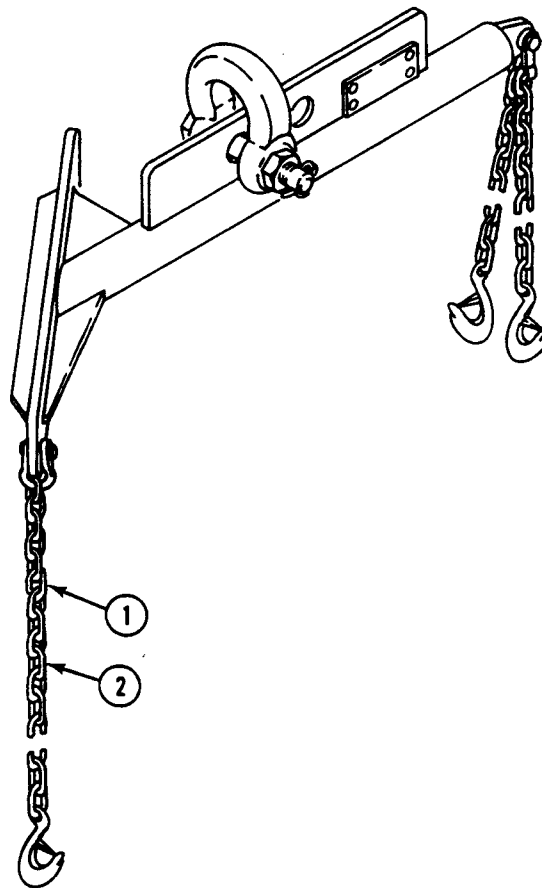


**Damaged lifting slings can fall with load. Personnel can be injured or killed. Inspect all slings. Do not use damaged slings.**

**NOTE**

Chains are inspected on a link by link basis with the chain slack.

1. CHECK CHAINS (1) FOR EXCESSIVE WEAR.
  - a. For 9/32 inch (7 mm) chain, if any link (2) is worn at any point in excess of 3/64 inch (1 mm) or chain size is less than 15/64 inch (6 mm) in diameter, remove sling from service. Use drill set as No-Go gauge and/or caliper.
  - b. For 3/8 inch (10 mm) chain, if any link (2) is worn at any point in excess of 5/64 inch (2 mm) or chain size is less than 19/64 inch (8 mm) in diameter, remove sling from service. Use drill set as No-Go gauge and/or caliper.
2. CHECK CHAINS (1) FOR EXCESSIVE STRETCH.
  - a. If any link (2) does not hinge freely with adjoining link, remove sling from service.

**NOTE**

Dimension “L” or “reach” is the distance between the bearing point of hook to bearing point on coupling link while under a light load.

If identification tag attached to chain leg does not contain actual “reach” dimension, then dimension “L” must be calibrated prior to use for each chain leg and entered into maintenance record. At each inspection, chain length must be compared with initial inspection.

- b. If length (L) between bearing point of hook (1) and bearing point of coupling link (2) while under light load is greater than the maximum in Table 1, page 0336 00-3, remove sling from service.



Table 1.

**Table I**

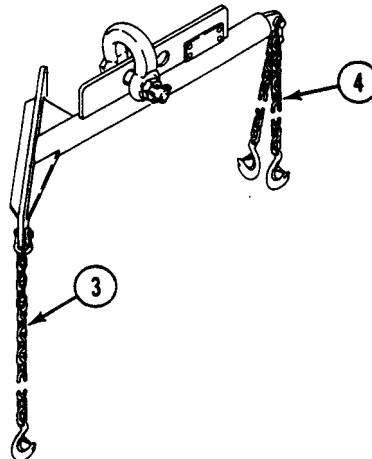
| Part Number | (L)<br>Nominal Reach | (L)<br>Maximum Reach | Example             |
|-------------|----------------------|----------------------|---------------------|
| 12350350-1  | 13-1/2<br>(34.3 cm)  | 2% Increase          | 13-3/4<br>(34.9 cm) |
| 12350350-2  | 12-3/4<br>(32.4 cm)  | 2% Increase          | 13<br>(33 cm)       |
| 12350350-6  | 16-7/8<br>(42.9 cm)  | 2% Increase          | 17-1/5<br>(43.7 cm) |

The diagram shows a hook on the left connected to a chain. A horizontal dimension line labeled 'L' extends from the center of the hook to the center of the last link of the chain. The chain consists of several links, with the first link after the hook labeled '1' and the last link labeled '2'.

3. CHECK CHAINS (3) FOR FOLLOWING:

- a. If any link (4) is bent or twisted, remove sling from service.
- b. If any link (4) has a sharp transverse nick or gouge, remove sling from service.
- c. If any link (4) is modified, homemade, or length of chain is altered, remove sling from service.

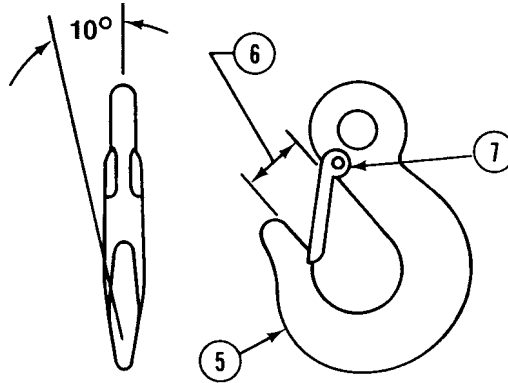


**NOTE**

Hooks should be free of paint. Paint covers up cracks. Remove all paint from hooks.

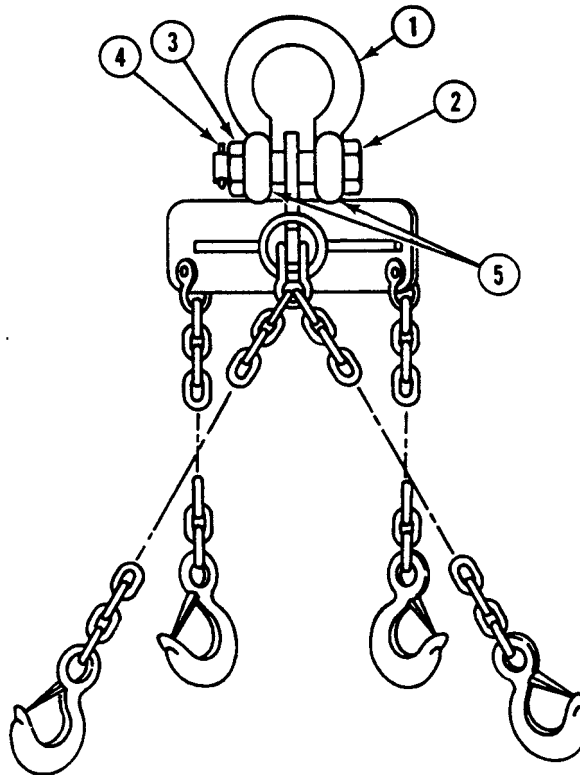
## 4. INSPECT HOOKS (5) FOR FOLLOWING:

- a. If any cracks are found on hooks (5), remove sling from service.
- b. If throat opening (6) exceeds 1-7/64 inch (28 mm), remove sling from service.
- c. If twisting exceeds 10° from centerline, remove sling from service.
- d. Inspect safety closure latch (7). If any latch is damaged, remove sling from service.



## 5. INSPECT LIFTING SHACKLE (1) FOR FOLLOWING:

- a. Verify correct lifting shackle (1) is being used. Part number 12328579 and/or SWL21T should be visible in raised letters.
- b. Verify correct bolt (2) is being used. Diameter of bolt should be 1-3/8 inch (35 mm), and bolt head should be marked with HS in raised letters. Nut (3) should be snug and a cotter pin (4) must be installed through bolt.
- c. If any cracks are found in lifting shackle (1), remove sling from service.
- d. Lifting shackle (1) must have a minimum width of 1-31/32 inch (5 cm) between eyes (5). If shackle has a visible decrease in eye width or bending and deformation and damaged threads, remove sling from service.

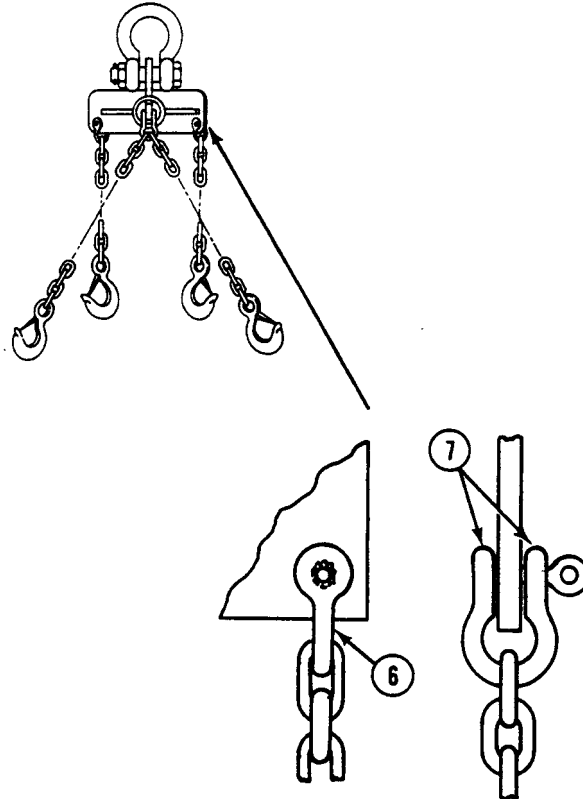


**NOTE**

**Make sure pin is secure in shackle.**

6. INSPECT WELDED SHACKLES (6) FOR FOLLOWING:

- a. If any welds are cracked or missing, remove sling from service.
- b. If welded shackle (6) has any visible decrease in width between eyes (7) or twisting, bending, and deformation, remove sling from service.



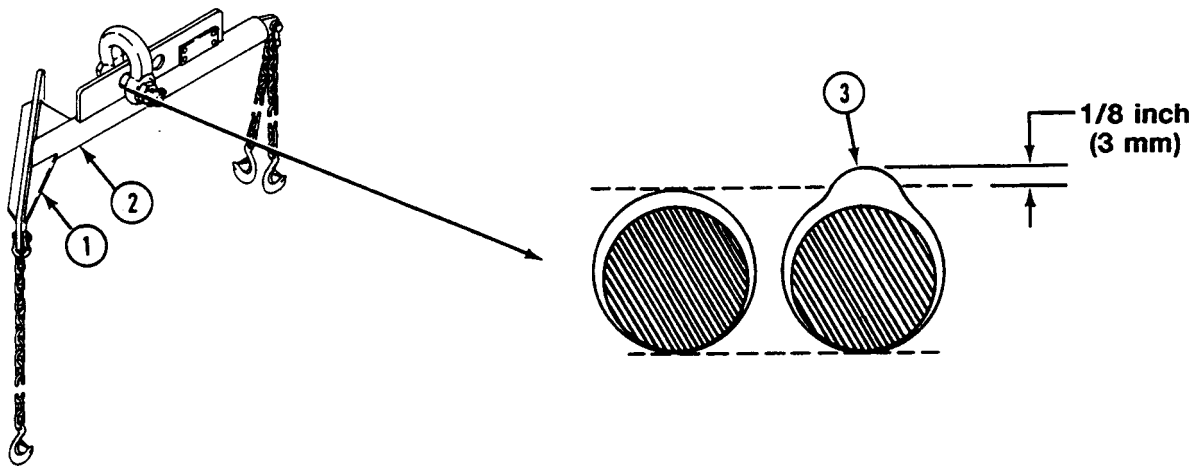
7. INSPECT STRUCTURAL MEMBERS FOR FOLLOWING:

- a. If welded joints are cracked in excess of 1/2 inch (13 mm) or 25% of length of weld in gusset (1) to cross beam (2) area, remove sling from service.

**NOTE**

Use straight edge to measure cross beam bend.

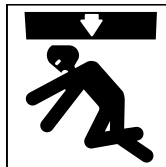
- b. If cross beam is bent or twisted in excess of 1/4 inch (6 mm) at ends of cross beam, remove sling from service. Do not attempt to straighten a bent cross beam.
- c. If lifting hole (3) is elongated in excess of 1/8 inch (3 mm), remove sling from service.



8. COMPLETE REQUIRED FORMS.

**PREOPERATIVE CHECK**

**WARNING**



Damaged lifting slings can fall with load. Personnel can be injured or killed. Inspect all slings. Do not use damaged slings.

**NOTE**

Chains are inspected on a link by link basis with the chain slack.

- 1. DO Step 2a AND Steps 3 - 8 OF PERIODIC CHECK.

**END OF TASK**



CHAPTER 31

UNIT MAINTENANCE INSTRUCTIONS  
FOR DRIVER'S HATCH AND FLOOR PLATES

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>  | <u>Sequence No.</u> |
|---|---------------------|
| REPLACE DRIVER'S HATCH CUSHION PAD.....             | 0337 00             |
| REPLACE DRIVER'S HATCH INTERIOR LOCK AND LATCH..... | 0338 00             |
| REPLACE VEHICLE PERISCOPE LOCKS AND SEALS.....      | 0339 00             |
| REPAIR DRIVER'S HATCH.....                          | 0340 00             |
| REPLACE REAR COMPARTMENT AIR VENTILATOR.....        | 0341 00             |
| REPLACE DRIVER'S COMPARTMENT FLOOR PLATES.....      | 0342 00             |
| REPLACE FLOOR PLATES/RUBBER STRIPS.....             | 0343 00             |





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## REPLACE DRIVER'S HATCH CUSHION PAD

---

0337 00

### THIS WORK PACKAGE COVERS:

Removal (page 0337 00-1).  
 Installation (page 0337 00-1).

---

### INITIAL SETUP:

#### Maintenance Level

Unit

#### References

TM 9-2350-366-10-1

#### Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

#### Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

#### Materials/Parts

Lockwasher (6)

Carrier blocked (TM 9-2350-366-10-1)

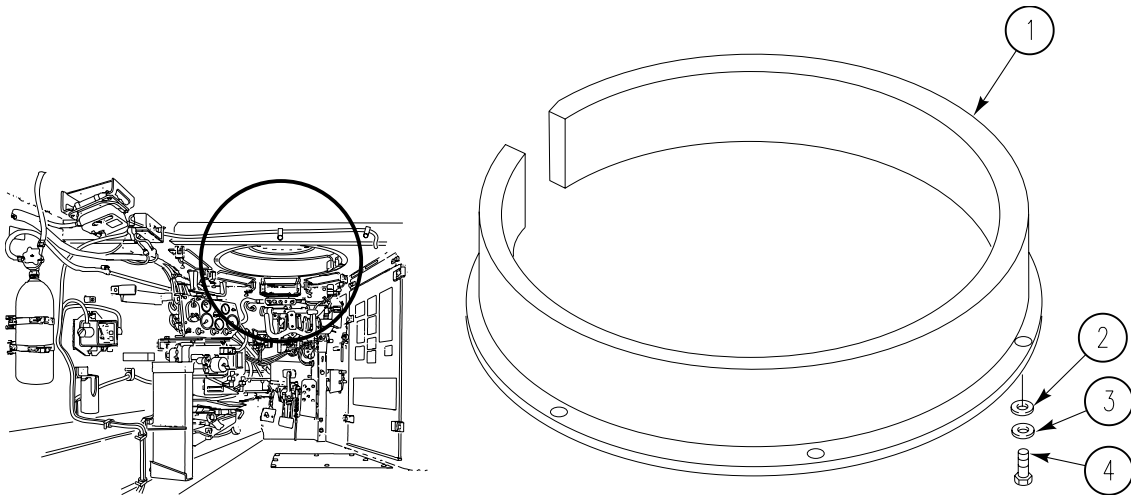
#### Personnel Required

Unit Mechanic 63T10

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### REMOVAL

1. REMOVE SIX SCREWS (4), LOCKWASHERS (3), WASHERS (2), AND CUSHION PAD (1) FROM HATCH OPENING. DISCARD LOCKWASHERS.



### INSTALLATION

1. PLACE CUSHION PAD (1) IN HATCH OPENING. SECURE WITH SIX WASHERS (2), NEW LOCKWASHERS (3), AND SCREWS (4).

### END OF TASK



**REPLACE DRIVER'S HATCH INTERIOR LOCK AND LATCH**

**0338 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0338 00-1).
- Installation (page 0338 00-3).
- Adjustment (page 0338 00-4).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Materials/Parts

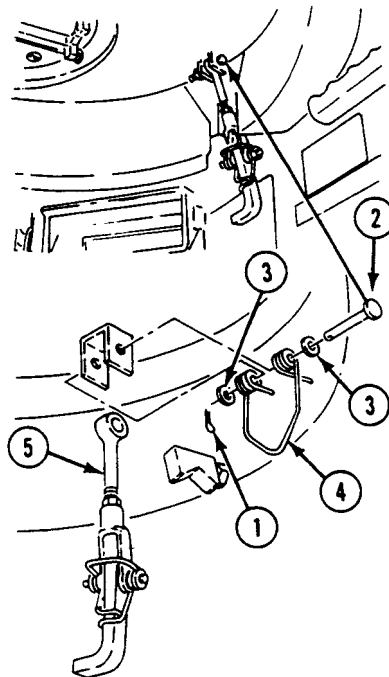
Cotter pin (2)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. REMOVE COTTER PIN (1) FROM HEADED PIN (2). DISCARD COTTER PIN.
2. REMOVE PIN (2), TWO WASHERS (3), SPRING (4), AND EYEBOLT (5) FROM DRIVER'S HATCH BRACKET.



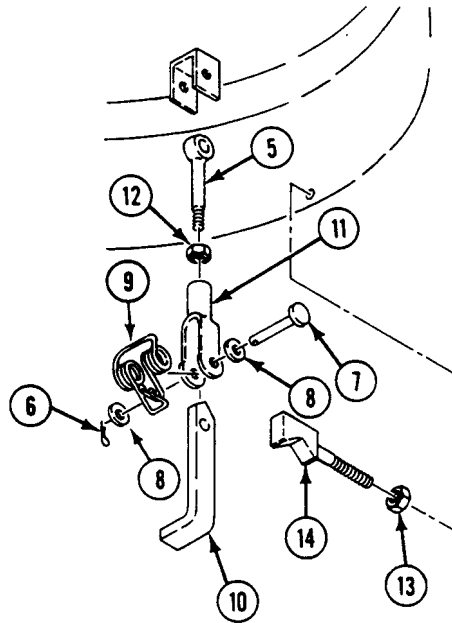
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**REPLACE DRIVER'S HATCH INTERIOR LOCK AND LATCH — Continued**

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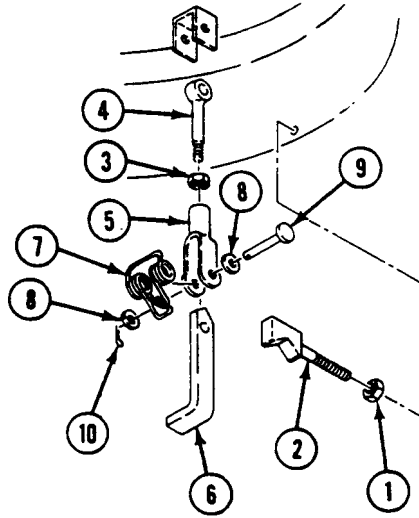
**0338 00**

3. REMOVE COTTER PIN (6) FROM HEADED PIN (7). DISCARD COTTER PIN.
4. REMOVE PIN (7), TWO WASHERS (8), SPRING (9), AND LATCH (10) FROM CLEVIS (11).
5. LOOSEN NUT (12). REMOVE EYEBOLT (5) FROM CLEVIS (11).
6. LOOSEN NUT (13). REMOVE LUG (14) FROM BULKHEAD. REMOVE NUT FROM LUG.

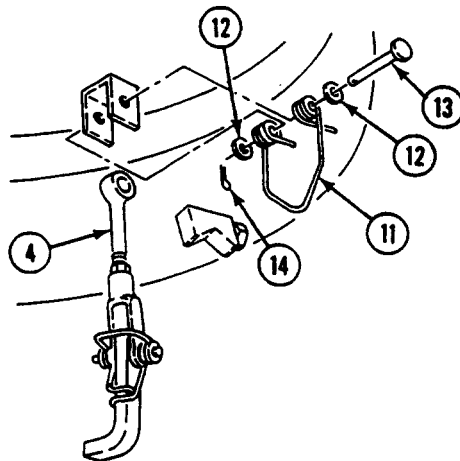


**INSTALLATION**

1. INSTALL NUT (1) ON LUG (2). INSTALL LUG IN BULKHEAD. DO NOT TIGHTEN NUT.
2. INSTALL NUT (3) AND EYEBOLT (4) IN CLEVIS (5). DO NOT TIGHTEN NUT.
3. ALIGN LATCH (6), SPRING (7), AND TWO WASHERS (8) WITH CLEVIS (5). SECURE WITH HEADED PIN (9) AND NEW COTTER PIN (10).

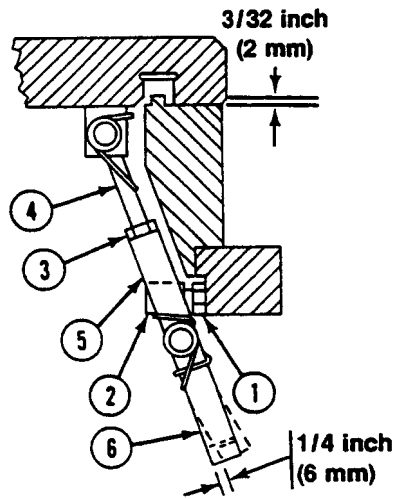


4. ALIGN EYEBOLT (4), SPRING (11), AND TWO WASHERS (12) WITH DRIVER'S HATCH BRACKET. SECURE WITH HEADED PIN (13) AND NEW COTTER PIN (14).



**ADJUSTMENT**

1. PERFORM Step 2 AND Step 3 TO ADJUST LOCK AND LATCH.
2. TURN CLEVIS (5) ON EYEBOLT (4) UNTIL HATCH CLOSES TIGHTLY ON HULL IN THE LATCHED POSITION WITH MAXIMUM CLEARANCE OF  $\frac{3}{32}$  INCH (2 MM). TIGHTEN NUT (3).
3. TURN LUG (2) UNTIL LATCH (6) IS IN LINE WITH CLEVIS (5) OR  $\frac{1}{4}$  INCH (6 MM) MAXIMUM ABOVE CLEVIS IN LATCHED POSITION. TIGHTEN NUT (1) ON LUG.



4. CLOSE HATCH. See TM 9-2350-366-10-1. CHECK THAT HATCH LOCK AND LATCH WORK RIGHT.

**END OF TASK**

---

**REPLACE VEHICLE PERISCOPE LOCKS AND SEALS**

**0339 00**

---

**THIS WORK PACKAGE COVERS:**

- Removal (page 0339 00-2).
- Cleaning (page 0339 00-3).
- Installation (page 0339 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

- Adhesive (WP 0399 00, Item 5)
- Cleaning compound (WP 0399 00, Item 15)
- Rubber seal
- Spring pin

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
  - Vehicle blocked (TM 9-2350-366-10-1)
  - Rear doors opened (TM 9-2350-366-10-1)
  - Vision block removed (TM 9-2350-366-10-1)
-

## REMOVAL

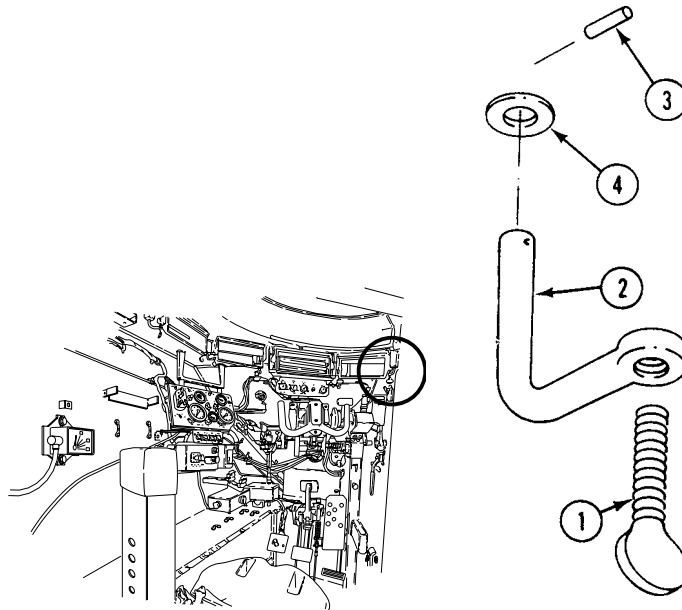
## NOTE

There are six periscope locks and six seals on the vehicle. Four on the driver's hatch and two on the rear compartment. Task is for one lock and seal.

Left rear periscope lock arm is longer but removed and installed the same way.

Driver's center vision block is held in place by two thumbscrews mounted on warning light panel.

1. REMOVE THUMBSCREW (1) FROM ARM (2).
2. REMOVE SPRING PIN (3) FROM ARM (2). DISCARD PIN.
3. REMOVE ARM (2) AND WASHER (4) FROM HULL BRACKET.



4. SCRAPE SEAL FROM PERISCOPE OPENING.



## CLEANING

**WARNING**

Solvent fumes and fluid are poisonous and can cause skin irritation.

Solvent may be harmful if swallowed. Avoid skin contact and breathing of fumes. Read solvent warning at the front of this manual.

**WARNING**

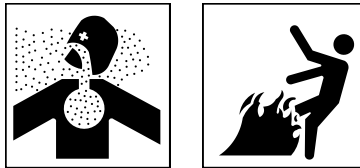
Solvent evaporates rapidly and makes fumes that are flammable.

Do not smoke or allow open flames near solvent fumes.

Read solvent warning at the front of this manual.

1. CLEAN SEAL MATING SURFACE ON HULL WITH CLEANING COMPOUND SOLVENT.
2. CLEAN COVER MATING SURFACE WITH CLEANING COMPOUND SOLVENT.

## 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.

**NOTE**

Surface on seal marked bond this side should be glued to hull.

1. APPLY ADHESIVE TO MATING SURFACE AROUND PERISCOPE OPENING. ALLOW TO BECOME TACKY. INSTALL NEW SEAL ON HATCH.

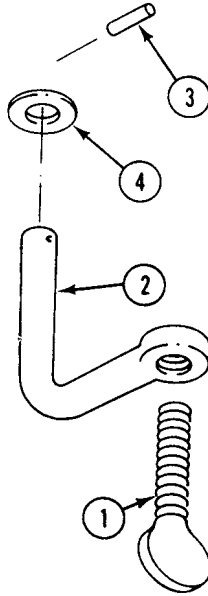
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**REPLACE VEHICLE PERISCOPE LOCKS AND SEALS — Continued**

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**0339 00**

2. INSTALL ARM (2) AND WASHER (4) IN HULL BRACKET. SECURE WITH NEW SPRING PIN (3).
3. INSTALL THUMBSCREW (1) IN ARM (2). DEFORM FIRST THREAD OF THUMBSCREW TO PREVENT EASY REMOVAL.



4. INSTALL PERISCOPE. See TM 9-2350-366-10-1.
5. START ENGINE. See TM 9-2350-366-10-1.
6. CLOSE REAR DOORS. See TM 9-2350-366-10-1.
7. STOP ENGINE. See TM 9-2350-366-10-1.

**END OF TASK**

---

**REPAIR DRIVER'S HATCH**

**0340 00**

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**THIS WORK PACKAGE COVERS:**

- Removal (page 0340 00-2).
- Disassembly (page 0340 00-7).
- Cleaning (page 0340 00-11).
- Inspection-Acceptance and Rejection Criteria (page 0340 00-11).
- Repair or Replacement (page 0340 00-12).
- Assembly (page 0340 00-13).
- Installation (page 0340 00-17).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Lockwasher (2)

Lockwasher

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Snap ring pliers (WP 0397 00, Item 32)
- Socket wrench set (WP 0397 00, Item 71)
- Torque wrench, 3/8 inch drive, 0-150 in-lb (WP 0397 00, Item 77)
- Torque wrench, 3/8 inch drive, 0-200 in-lb (WP 0397 00, Item 80)
- Torque wrench, 3/4 inch drive, 0-600 ft-lb (WP 0397 00, Item 84)

Rubber stop

Seal

Spring pin

Personnel Required

Unit Mechanic 63T10

Helper (H)

Materials/Parts

- Adhesive sealant (WP 0399 00, Item 5)
- Cleaning compound solvent (WP 0399 00, Item 17)
- Sealing compound (WP 0399 00, Item 46)
- Lubricating oil (WP 0399 00, Item 63)
- Cotter pin (2)
- Cotter pin (2)
- Locknut (2)
- Locknut
- Locknut (4)
- Lockwasher (6)
- Lockwasher (3)

References

TM 43-0139

TM 9-2350-366-10-1

Equipment Condition

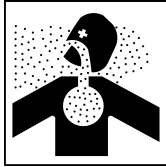
Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Rear doors opened (TM 9-2350-366-10-1)

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## REMOVAL

**WARNING**

Solvent fumes and fluid are poisonous and can cause skin irritation.

Solvent may be harmful if swallowed. Avoid skin contact and breathing of fumes. Read solvent warning at the front of this manual.

**WARNING**

Solvent evaporates rapidly and makes fumes that are flammable.

Do not smoke or allow open flames near solvent fumes.

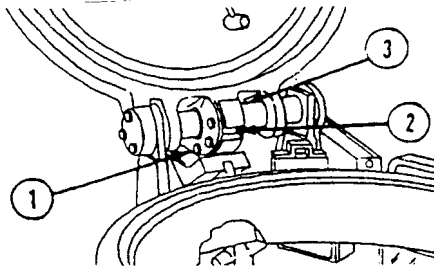
Read solvent warning at the front of this manual.

1. CLEAN DRIVER'S HATCH AREAS WITH A STIFF ACID BRUSH DAMPENED WITH CLEANING COMPOUND SOLVENT.

**WARNING**

**Driver's hatch cover could fall during vehicle operation because of worn or excessively soiled components and/or maladjustment, causing injury or death. Follow these inspection procedures very carefully.**

2. CLOSE AND LATCH DRIVER'S HATCH. INSPECT YOKE SUPPORT ASSEMBLY (1) AND BLOCK DETENTS (2) AND (3) FOR MUD, DIRT, AND ANY DEBRIS THAT COULD INTERFERE WITH SMOOTH OPERATION OF THE ASSEMBLY.



**NOTE**

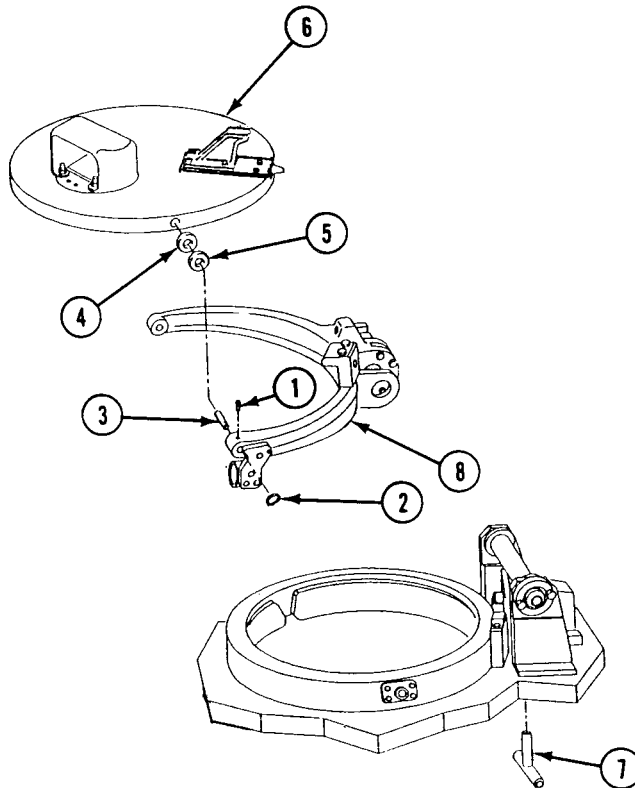
Make sure hatch is in closed position.

3. REMOVE TWO SETSCREWS (1), SNAP RINGS (2), PINS (3), WASHERS (4), AND WASHERS (5) FROM DRIVER'S HATCH COVER (6). HAVE HELPER ASSIST.

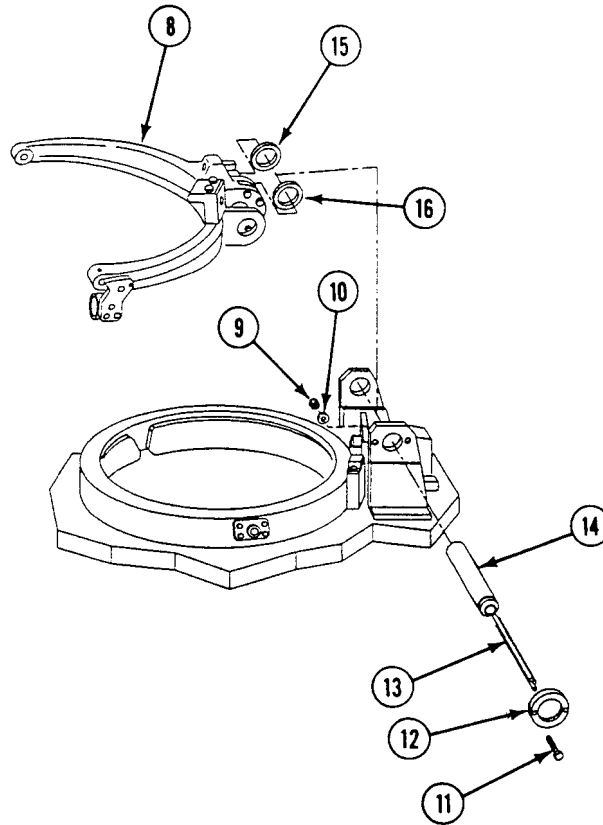
**WARNING**

A falling hatch is heavy and could kill you or your buddy. Equipment could also be damaged. Make sure all personnel are clear before performing the next step.

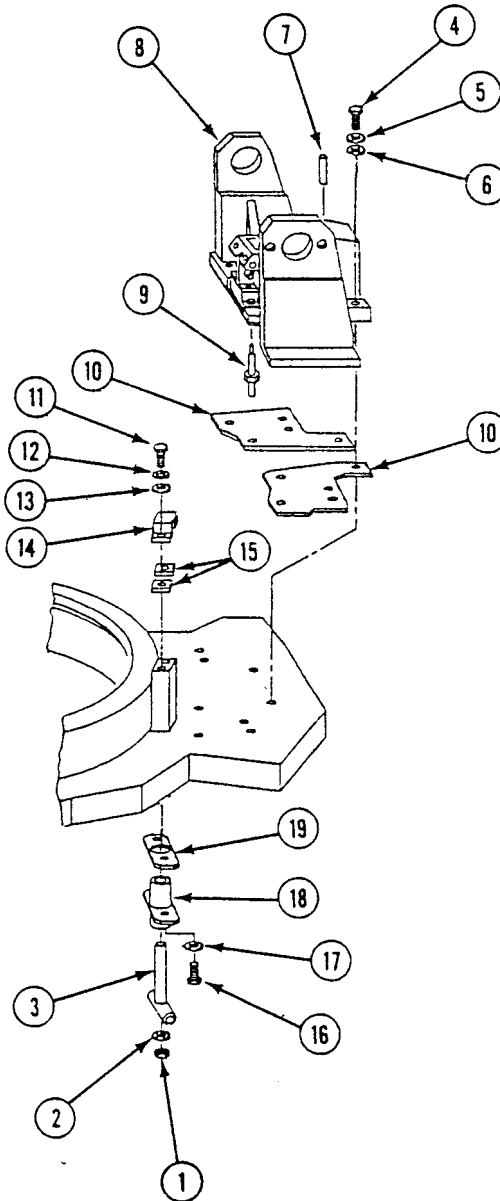
4. PULL HATCH RELEASE HANDLE (7) AND ALLOW YOKE (8) TO MOVE TO OPEN POSITION.
5. CAREFULLY LIFT AWAY HATCH COVER (6). HAVE HELPER ASSIST.



6. REMOVE TWO LOCKNUTS (9), WASHERS (10), SCREWS (11), AND CAP (12). DISCARD LOCKNUTS.
7. MOVE YOKE (8) TO CLOSED POSITION.
8. REMOVE 17 SPRINGS (13), SHIELD (14), SPACER (15), SPACER (16), AND YOKE (8).



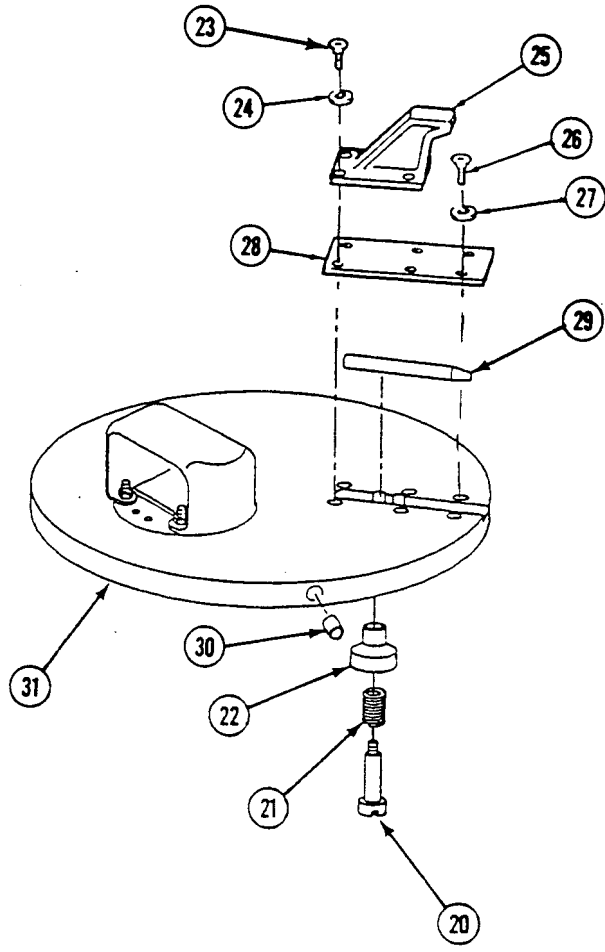
9. REMOVE LOCKNUT (1), WASHER (2), AND HANDLE (3). DISCARD LOCKNUT.
10. REMOVE SIX SCREWS (4), LOCKWASHERS (5), WASHERS (6), TWO PINS (7), SUPPORT (8), LANYARD (9), AND FOUR SHIMS (10). DISCARD LOCKWASHERS.
11. REMOVE TWO SCREWS (11), LOCKWASHERS (12), WASHERS (13), CATCH (14), AND TWO SHIMS (15). DISCARD LOCKWASHERS.
12. REMOVE TWO SCREWS (16), WASHERS (17), GUIDE (18), AND SPACER (19).



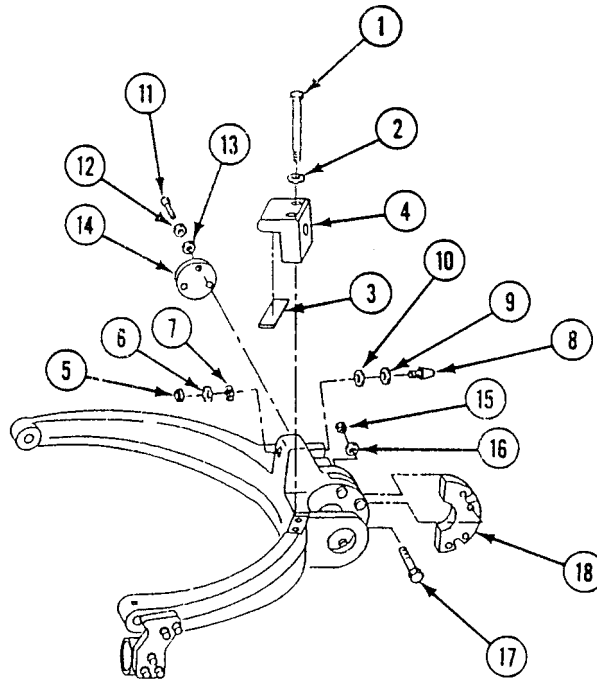


**DISASSEMBLY**

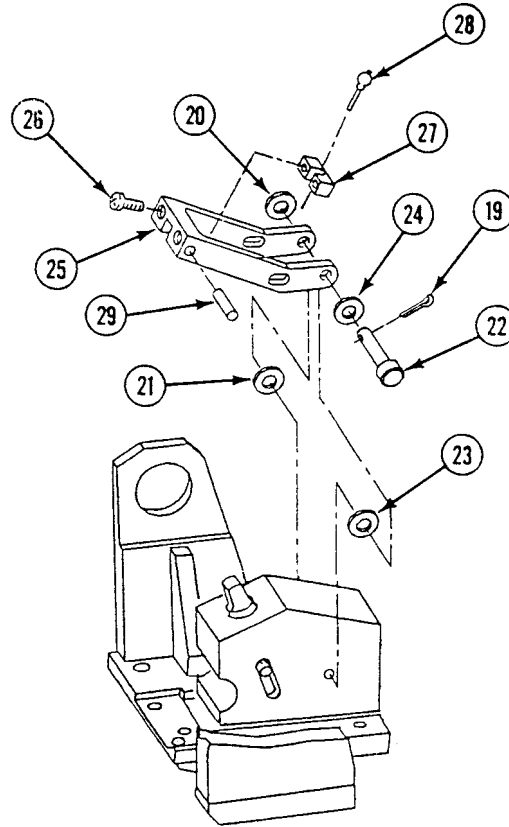
1. REMOVE SCREW (20), SPRING (21), AND HANDLE (22).
2. REMOVE FOUR SCREWS (23), WASHERS (24), HATCH STOP (25), TWO SCREWS (26), WASHERS (27), ACCESS COVER (28), AND SLIDE BOLT (29).
3. REMOVE TWO SLLEEVE BEARINGS (30) FROM HATCH COVER (31).



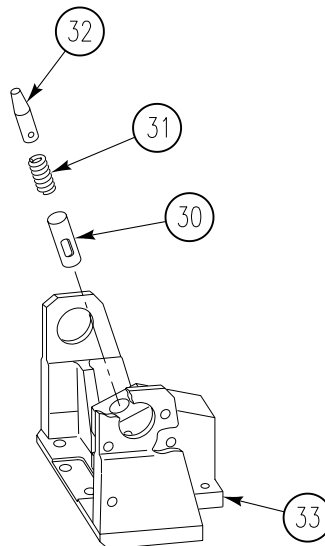
4. REMOVE TWO SCREWS (1), LOCKWASHERS (2), RUBBER STOP (3), AND STOP (4). DISCARD LOCKWASHERS.
5. REMOVE NUT (5), WASHER (6), LOCKWASHER (7), BUMPER (8), WASHER (9), AND WASHER (10). DISCARD LOCKWASHER.
6. REMOVE THREE SCREWS (11), LOCKWASHERS (12), WASHERS (13), AND COVER (14). DISCARD LOCKWASHERS.
7. REMOVE FOUR LOCKNUTS (15), WASHERS (16), SCREWS (17), AND INSERT BLOCK (18). DISCARD LOCKNUTS.



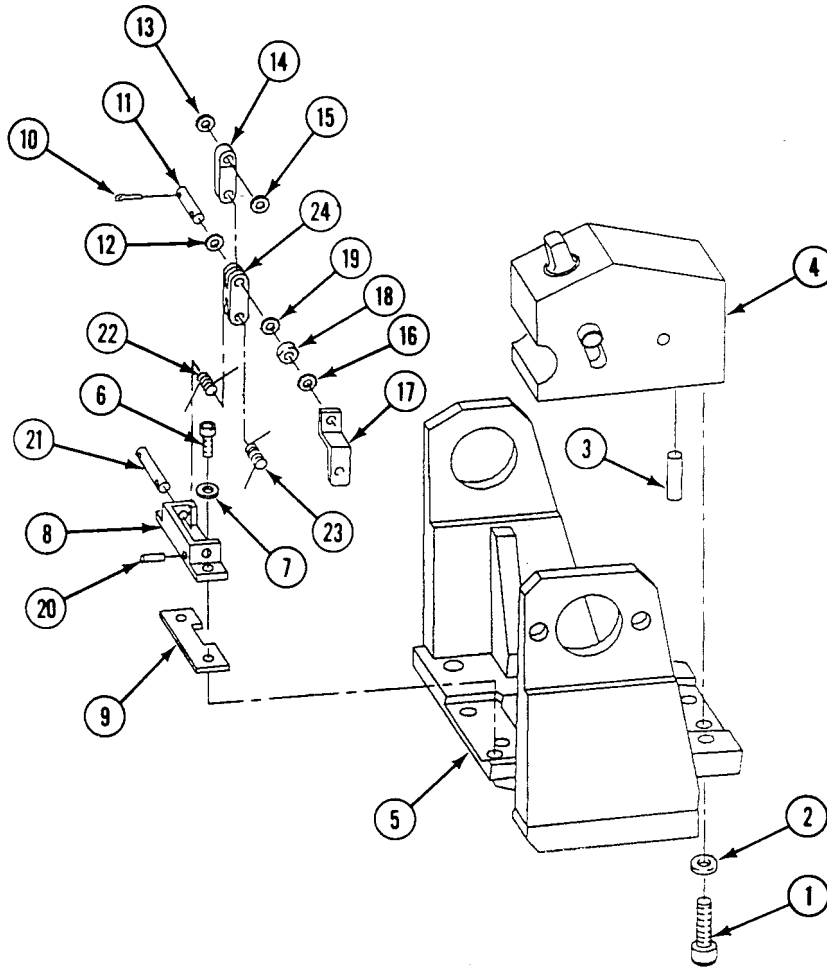
8. REMOVE TWO COTTER PINS (19), WASHERS (20), WASHER (21), TWO PINS (22), WASHER (23), TWO WASHERS (24), AND BRACKET (25). DISCARD COTTER PINS.
9. REMOVE TWO SCREWS (26), RETAINER (27), PIN (28), AND PIN (29) FROM BRACKET (25).



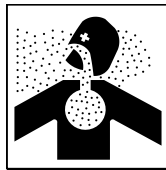
10. REMOVE BEARING SLEEVE (30), SPRING (31), AND STOP (32) FROM BLOCK (33).



11. REMOVE SIX SCREWS (1), WASHERS (2), TWO PINS (3), AND BLOCK (4) FROM SUPPORT (5).
12. REMOVE TWO SCREWS (6), WASHERS (7), BRACKET (8), AND SHIM (9).
13. REMOVE TWO COTTER PINS (10), PIN (11), WASHER (12), WASHER (13), LINK (14), WASHER (15), WASHER (16), LINK (17), SPACER (18), AND WASHER (19). DISCARD COTTER PINS.
14. REMOVE SPRING PIN (20), PIN (21), SPRING (22), SPRING (23), AND LINK (24) FROM BRACKET (8). DISCARD SPRING PIN.



## CLEANING

**WARNING**

**Solvent fumes and fluid are poisonous and can cause skin irritation.**

**Solvent may be harmful if swallowed. Avoid skin contact and breathing of fumes. Read solvent warning at the front of this manual.**

**WARNING**

**Solvent evaporates rapidly and makes fumes that are flammable.**

**Do not smoke or allow open flames near solvent fumes.**

**Read solvent warning at the front of this manual.**

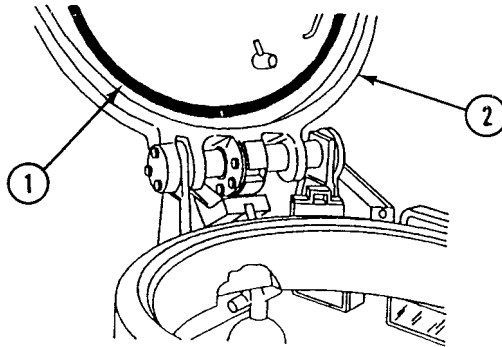
1. CLEAN PARTS WITH CLEANING COMPOUND SOLVENT.

**INSPECTION-ACCEPTANCE AND REJECTION CRITERIA**

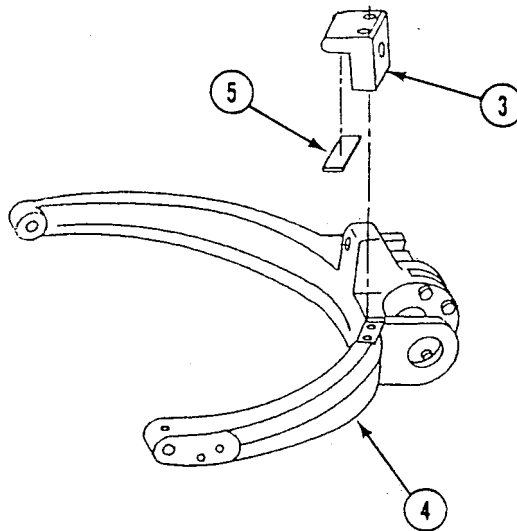
1. INSPECT PARTS FOR CORROSION, DISTORTION, CRACKS, AND BROKEN OR MISSING PARTS.

**REPAIR OR REPLACEMENT**

1. REPAIR OR REPLACE DAMAGED AND MISSING PARTS.
2. REPLACE HATCH SEAL.
  - a. REMOVE SEAL (1) FROM HATCH (2). DISCARD SEAL.
  - b. PRESS NEW SEAL (1) INTO HATCH (2) GROOVE AND APPLY PRESSURE WITH A ROLLER OR OTHER SUITABLE TOOL TO SEAT SEAL.

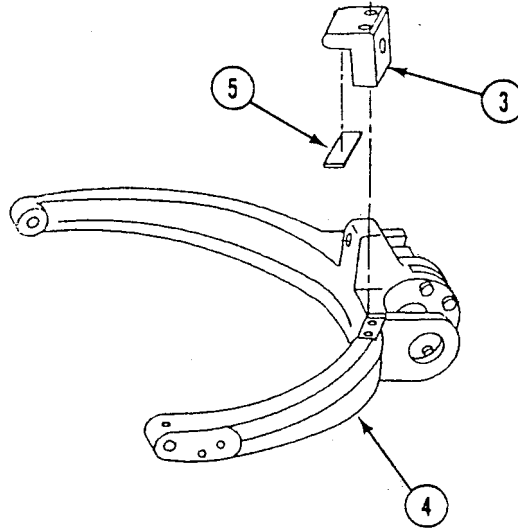


3. REPLACE RUBBER STOP. See Disassembly Step 4.
  - a. PLACE HATCH (2) IN CLOSED POSITION.
  - b. REMOVE STOP (3) FROM YOKE (4).



- c. REMOVE RUBBER STOP (5) FROM STOP (3). DISCARD RUBBER STOP. CLEAN TO BARE METAL.
- d. APPLY CLEAR ADHESIVE SEALANT EVENLY TO MATING SURFACE OF STOP (3). ALLOW TO DRY AT LEAST 30 MINUTES. APPLY SECOND COAT ONLY WHEN SURFACE IS DRY TO TOUCH.
- e. APPLY SECOND COAT OF SEALANT EVENLY TO MATING SURFACE OF STOP (3). ALLOW SECOND COAT OF SEALANT TO DRY AT LEAST 20 MINUTES. SURFACE MUST BE TACKY TO TOUCH.

- f. PRESS NEW RUBBER STOP (5) TO STOP (3), AND APPLY PRESSURE WITH A ROLLER OR OTHER FUNCTIONAL TOOL.
- g. INSTALL STOP (3) ON YOKE (4). See Assembly Step 12.



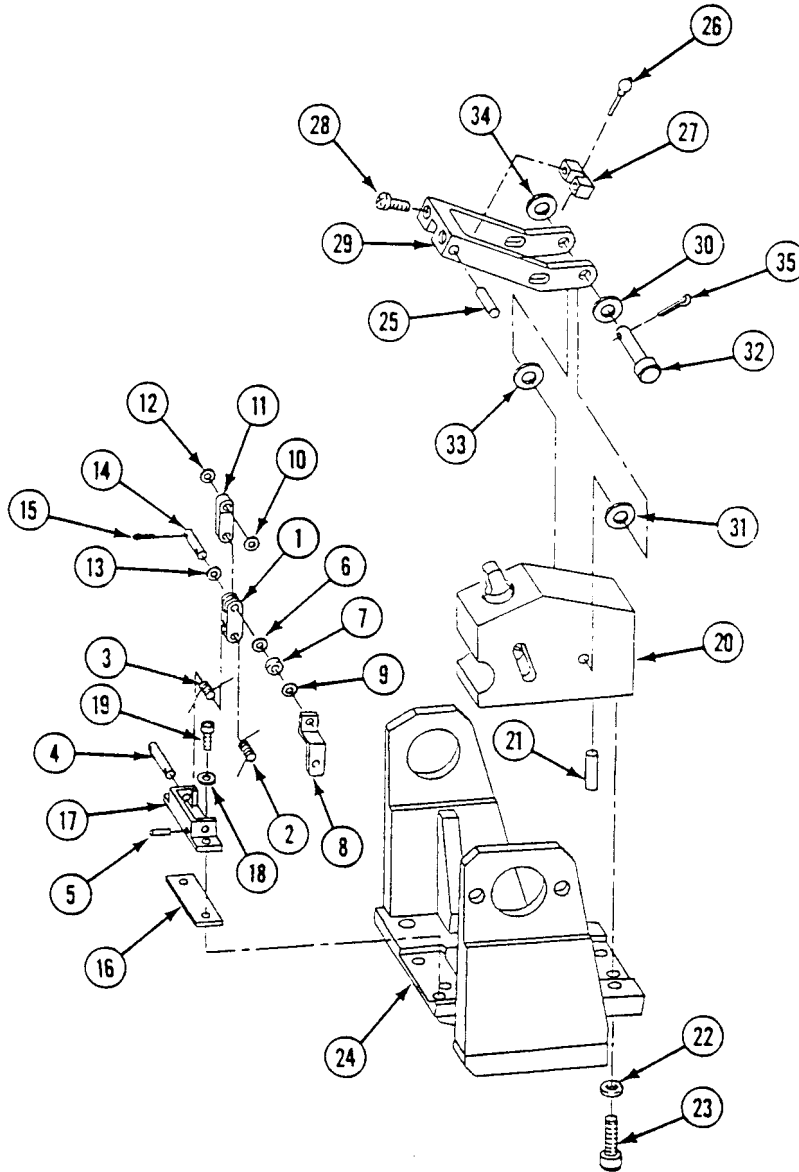
**ASSEMBLY**

1. INSTALL LINK (1), SPRING (2), SPRING (3), PIN (4), AND NEW SPRING PIN (5) ON BRACKET (17).
2. INSTALL WASHER (6), SPACER (7), LINK (8), WASHER (9), WASHER (10), LINK (11), WASHER (12), WASHER (13), PIN (14), AND TWO NEW COTTER PINS (15).
3. INSTALL SHIM (16), BRACKET (17), TWO WASHERS (18), AND SCREWS (19) ON SUPPORT (24).
4. INSTALL BLOCK (20), TWO PINS (21), SIX WASHERS (22), AND SCREWS (23) ON SUPPORT (24).
5. INSTALL PIN (25), PIN (26), BLOCK (27), AND TWO SCREWS (28) ON BRACKET (29).

**NOTE**

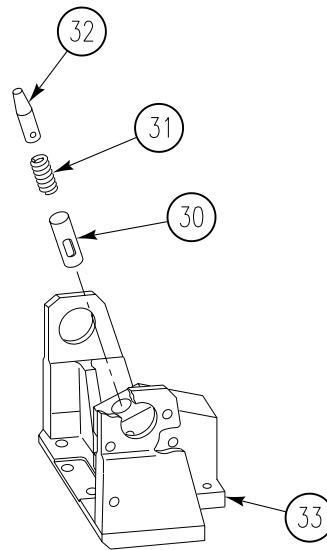
**Shim is required to make sure linkage returns to over center position.**

6. INSTALL BRACKET (29), TWO WASHERS (30), WASHER (31), TWO PINS (32), WASHER (33), TWO WASHERS (34), AND TWO NEW COTTER PINS (35) ON BLOCK (20).

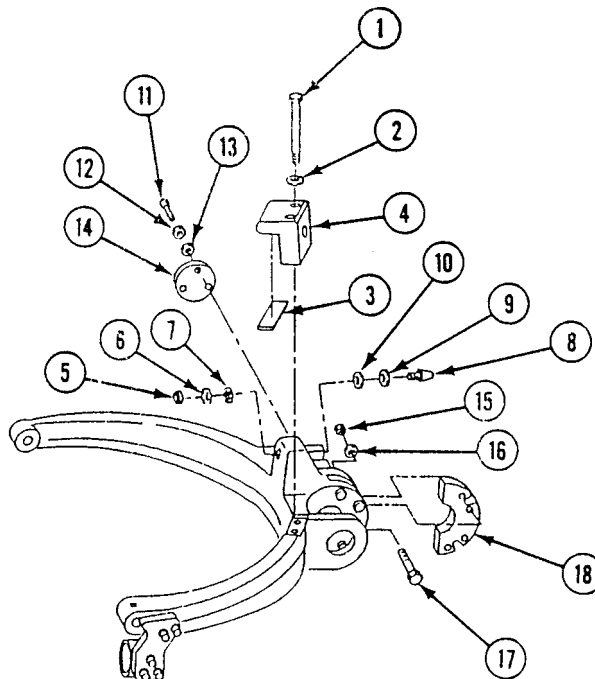




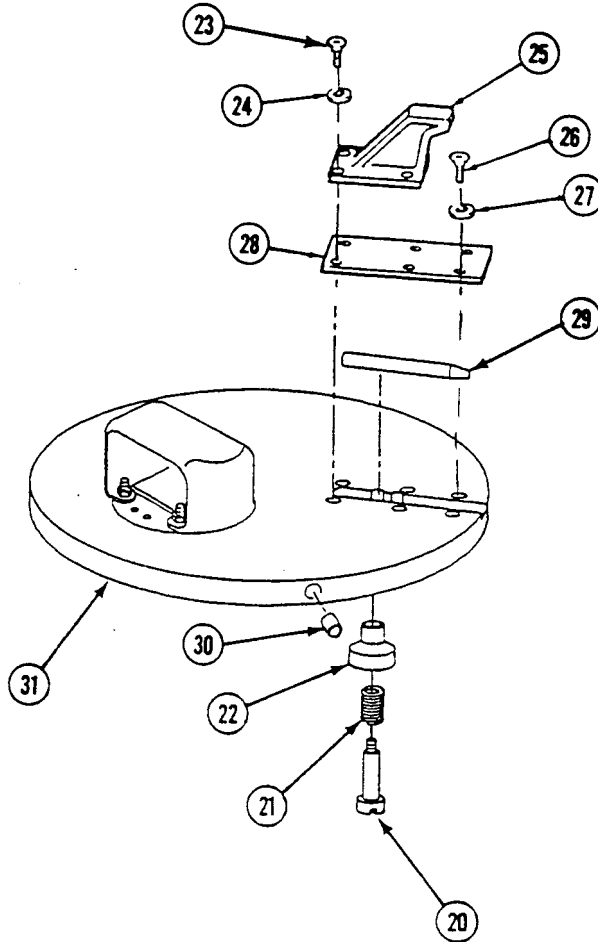
7. INSTALL BEARING SLEEVE (30), SPRING (31), AND STOP (32) ON BLOCK (33).



8. INSTALL INSERT BLOCK (18), FOUR SCREWS (17), WASHERS (16), AND NEW LOCKNUTS (15).
9. TIGHTEN FOUR NUTS (15) TO 216-240 LB-FT (320-325 N.M) TORQUE.
10. INSTALL CAP (14), THREE WASHERS (13), NEW LOCKWASHERS (12), AND SCREWS (11).
11. INSTALL WASHER (10), WASHER (9), BUMPER (8), WASHER (7), NEW LOCKWASHER (6), AND NUT (5).
12. INSTALL STOP (4), TWO NEW LOCKWASHERS (2), AND SCREWS (1).

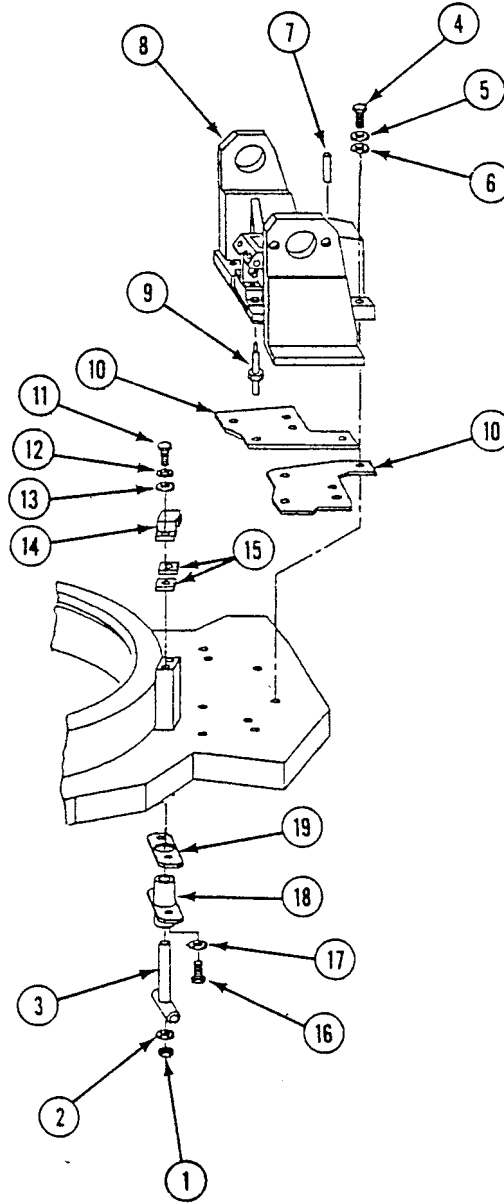


13. INSTALL TWO SLLEEVE BEARINGS (30) ON HATCH COVER (31).
14. INSTALL SLIDE BOLT (29), COVER (28), TWO WASHERS (27), SCREWS (26), HATCH STOP (25), FOUR WASHERS (24), AND SCREWS (23).
15. INSTALL HANDLE (22), SPRING (21), AND SCREW (20).



**INSTALLATION**

1. INSTALL SPACER (19), GUIDE (18), TWO WASHERS (17), AND SCREWS (16).
2. INSTALL TWO SHIMS (15), CATCH (14), TWO WASHERS (13), NEW LOCKWASHERS (12), AND SCREWS (11).



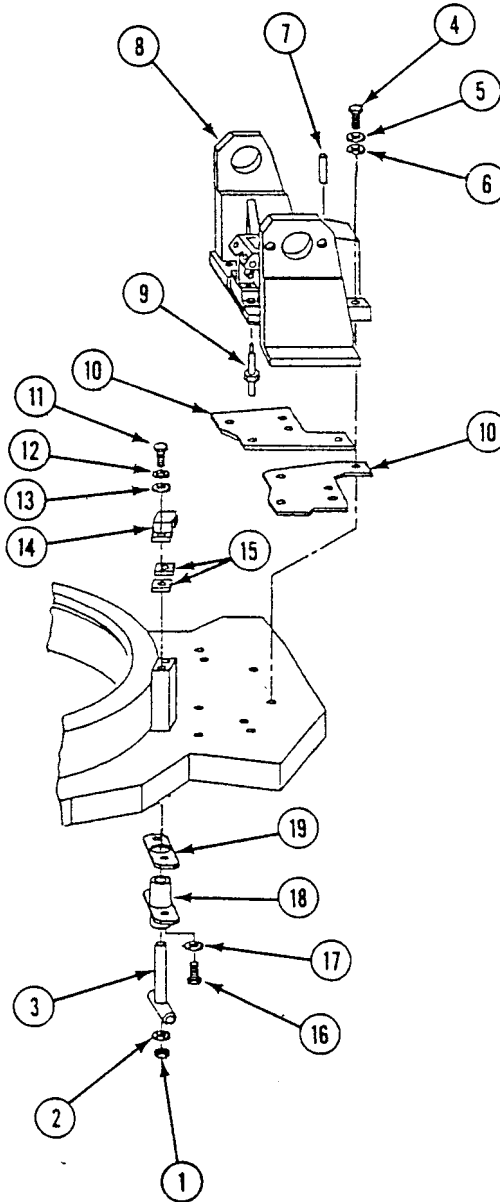
3. TIGHTEN TWO SCREWS (11) TO 120-144 LB-IN (14-16 N.M) TORQUE.

**NOTE**

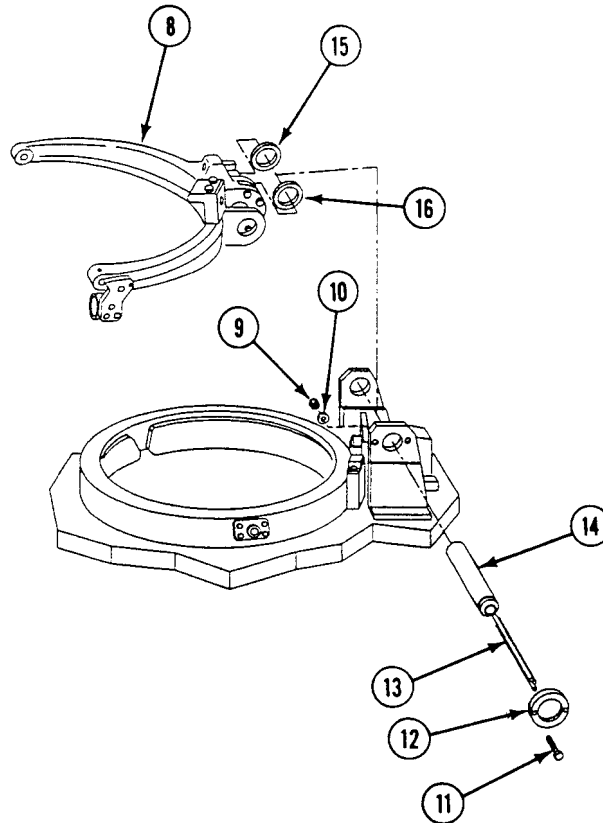
**Before installing support (8) to deck, apply a .006-inch high and .12-inch wide bead of sealing compound around the hole through the deck for handle (3). Do not allow sealing compound to dry before installing support (8) to deck.**

4. INSTALL TWO SHIMS (15), LANYARD (9), SUPPORT (8), TWO PINS (7), SIX WASHERS (6), NEW LOCKWASHERS (5), AND SCREWS (4).

5. TIGHTEN SIX SCREWS (4) TO 300-336 LB-IN (34-38 N.M) TORQUE.
6. INSTALL HANDLE (3), WASHER (2), AND NEW LOCKNUT (1).



7. INSTALL YOKE (8), SPACER (16), SPACER (15), SHIELD (14), AND 17 SPRINGS (13).
8. MOVE YOKE (8) TO OPEN POSITION.
9. INSTALL CAP (12), TWO SCREWS (11), WASHERS (10), AND NEW LOCKNUTS (9).
10. TIGHTEN TWO NUTS (9) TO 48-70 LB-FT (65-95 N.M) TORQUE.



11. MOVE YOKE (1) TO CLOSED POSITION.
12. PLACE HATCH COVER (2) INTO POSITION.

**NOTE**

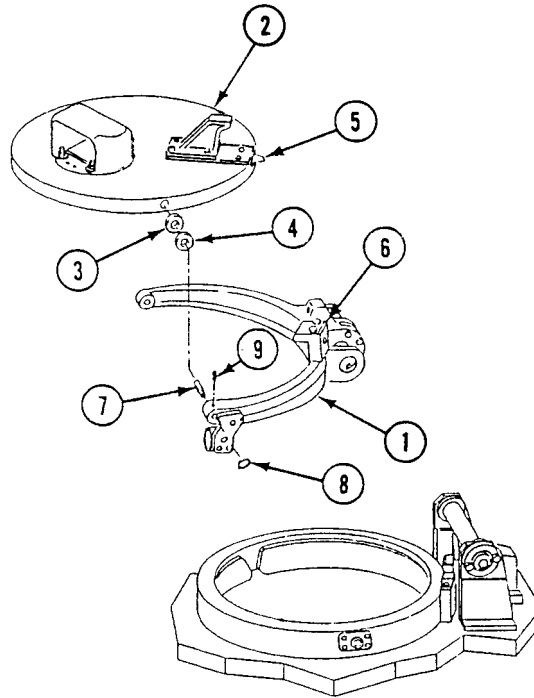
A minimum of one washer (3) and (4) is required between hatch cover (2) and yoke assembly (1).

13. USING WASHERS (3) AND (4), CENTER LATCH ASSEMBLY (5) WITHIN STOP ASSEMBLY (6), ALLOWING MAXIMUM MOVEMENT OF HATCH COVER (2) WITHIN YOKE ASSEMBLY (1). THIS ALLOWS ENGAGEMENT BETWEEN LATCH ASSEMBLY (5) AND STOP ASSEMBLY (6).

**NOTE**

Apply sealing compound to setscrew (7) before installing.

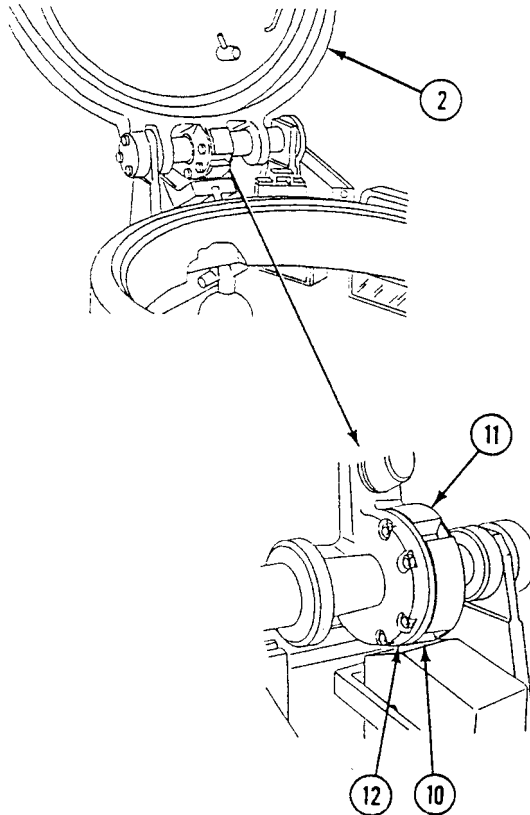
14. INSTALL TWO WASHERS (3), WASHERS (4), PINS (8), SNAP RINGS (9), AND SETSCREWS (7) ON DRIVER'S HATCH COVER (2).



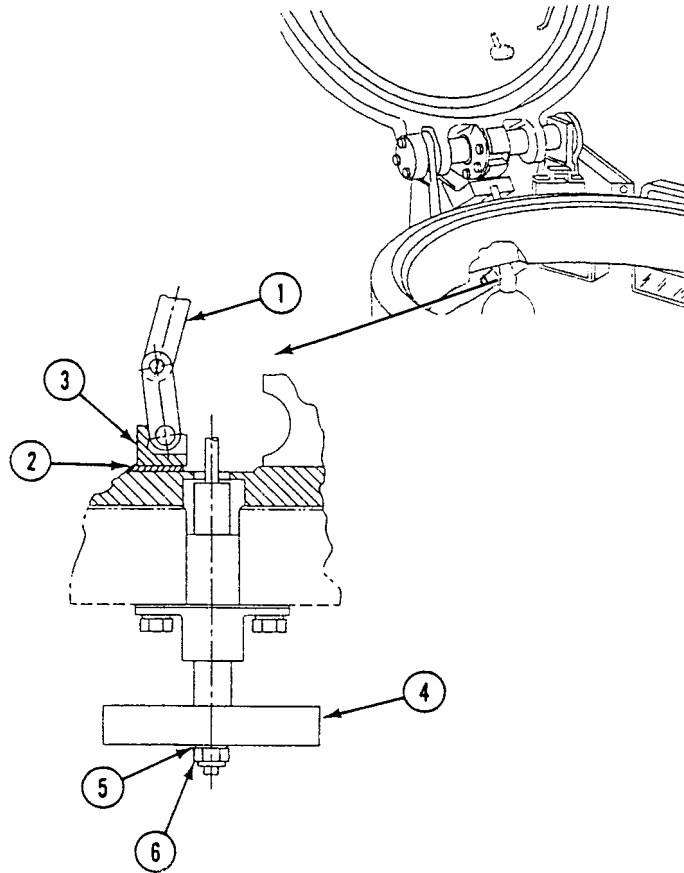
**WARNING**

The yoke support assembly could fail to operate if the hatch release handle gets caught on the ledge directly behind it. Watch for this any time the hatch release handle is operated.

15. RAISE DRIVER'S HATCH COVER (2) TO FIRST DETENT (10) (POP-UP) AND SECOND DETENT (11) (FULL-UP) POSITIONS. MAKE SURE TOP (12) FULLY ENGAGES. INSERT BLOCK DETENTS (10) AND (11) IN EACH POSITION.



16. CHECK THAT YOKE SUPPORT ASSEMBLY LINKAGE (1) IS OVER CENTER. IF LINKAGE IS NOT OVER CENTER, ADD SHIM LAMINATIONS (2) UNDER BRACKET (3).
17. PUSH HATCH RELEASE HANDLE (4) UP. THEN MEASURE BETWEEN HANDLE (4) AND WASHER (5). MAKE SURE GAP IS 0.06 (+0.03, -0.00) INCH. IF CLEARANCE IS NOT WITHIN LIMITS, LOOSEN OR TIGHTEN NUT (6), AS REQUIRED.



18. ADJUST DRIVER'S HATCH SWITCH 1S9 (WP 0252 00).
19. ADJUST DRIVER'S HATCH SWITCH 1S6 (WP 0253 00).
20. START ENGINE. See TM 9-2350-366-10-1.
21. CLOSE REAR DOORS. See TM 9-2350-366-10-1.
22. STOP ENGINE. See TM 9-2350-366-10-1.

**END OF TASK**



**REPLACE REAR COMPARTMENT AIR VENTILATOR**

**0341 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0341 00-1).
- Installation (page 0341 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Torque wrench (WP 0397 00, Item 83)

Equipment Condition

- Carrier on level surface
- Engine stopped (TM 9-2350-366-10-1)
- Carrier blocked (TM 9-2350-366-10-1)
- Rear access door open (TM 9-2350-366-10-1)

Materials/Parts

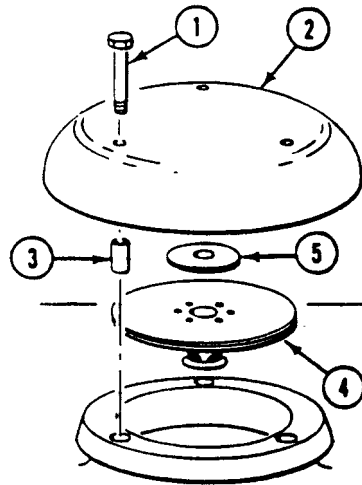
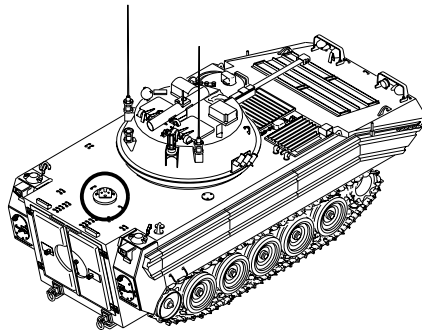
Gasket

Personnel Required

Unit Mechanic 63T10

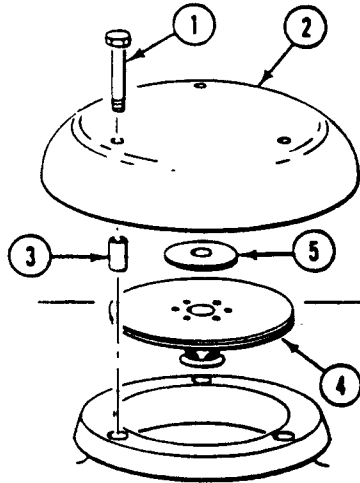
**REMOVAL**

1. REMOVE THREE SCREWS (1) COVER (2), AND THREE SPACERS (3) FROM HULL MOUNT.
2. REMOVE VALVE (4) AND GASKET (5) FROM COVER (2). DISCARD GASKET.



**INSTALLATION**

1. INSTALL NEW GASKET (5) AND VALVE (4) ON COVER (2).
2. ALIGN THREE SPACERS (3) AND COVER (2) WITH HULL MOUNT. SECURE WITH THREE SCREWS (1). TIGHTEN SCREWS TO 75-80 LB-FT (102-108 N•m) TORQUE.



3. OPEN AND CLOSE AIR VENTILATOR. CHECK THAT VENTILATOR IS INSTALLED RIGHT.
4. START ENGINE. See TM 9-2350-366-10-1.
5. STOP ENGINE. See TM 9-2350-366-10-1.
6. CLOSE REAR ACCESS DOOR. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE DRIVER'S COMPARTMENT FLOOR PLATES**

**0342 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0342 00-1).  
 Installation (page 0342 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Materials/Parts

Dry cleaning solvent (WP 0397 00, Item 17)

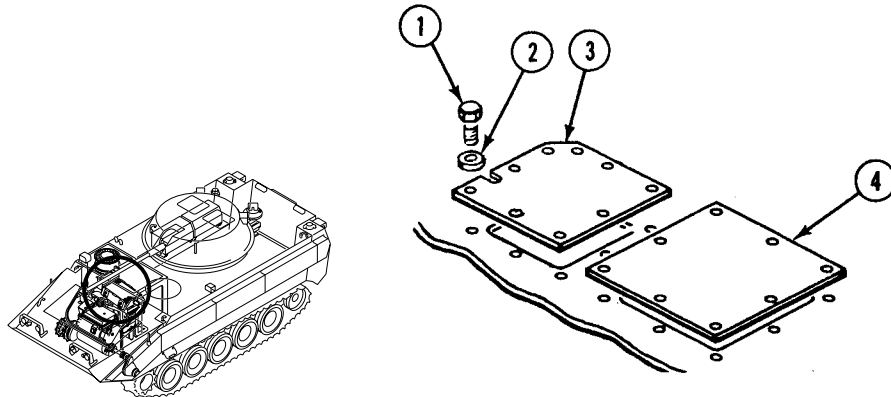
Sealing compound (WP 0397 00, Item 49)

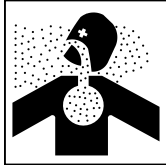
Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. REMOVE NINE SCREWS (1), WASHERS (2), AND FORWARD FLOOR PLATE (3) FROM HULL.
2. REMOVE EIGHT SCREWS (1) WASHERS (2) AND REAR FLOOR PLATE (3) FROM HULL.



**WARNING**

Solvent fumes and fluid are poisonous and can cause skin irritation.

Solvent may be harmful if swallowed. Avoid skin contact and breathing of fumes. Read solvent warning at the front of this manual.

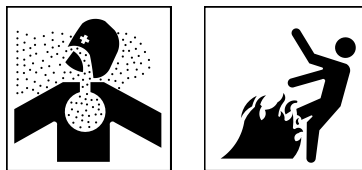
**WARNING**

Solvent evaporates rapidly and makes fumes that are flammable.

Do not smoke or allow open flames near solvent fumes.

Read solvent warning at the front of this manual.

3. CLEAN FLOOR PLATES AND HULL MATING SURFACE WITH DRY CLEANING SOLVENT.

**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 HULL MATING SURFACE FOR FLOOR PLATES.

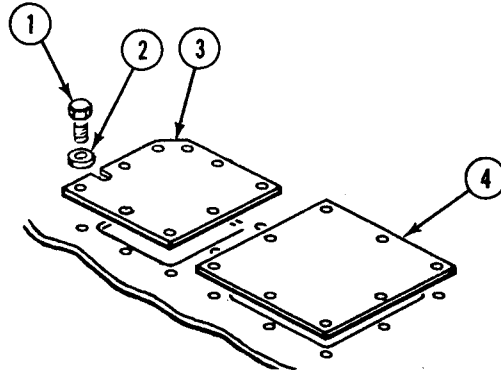
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**REPLACE DRIVER'S COMPARTMENT FLOOR PLATES — Continued**

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0342 00

2. INSTALL REAR FLOOR PLATE (4). SECURE WITH EIGHT WASHERS (2) AND SCREWS (1).
3. INSTALL FORWARD FLOOR PLATE (3). SECURE WITH NINE WASHERS (2) AND SCREWS (1).

**END OF TASK**



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**REPLACE FLOOR PLATES/RUBBER STRIPS**

**0343 00**

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**THIS WORK PACKAGE COVERS:**

Removal (page 0343 00-1).  
 Installation (page 0343 00-2).

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**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Turret basket bottom access cover removed  
 (TM 9-2350-366-10-2)  
 Personnel heater floor duct removed (WP 0369 00)

Materials/Parts

Adhesive (WP 0399 00, Item 4)  
 Rubber strips (if removed)

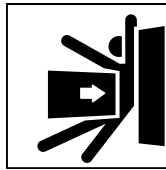
Personnel Required

Unit Mechanic 63T10

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**REMOVAL**

**WARNING**

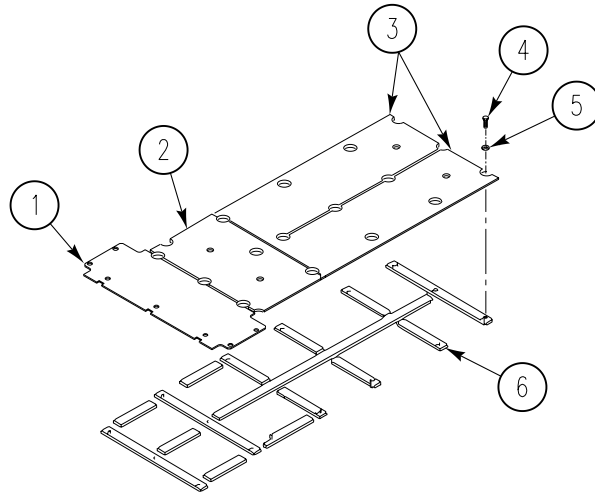


**Turret can rotate and severely injure or kill you. Do not reach through turret shield opening when turret power is on. Keep turret shield door closed whenever turret drive power is on. Engage turret travel lock before moving or reaching through turret shield opening.**

1. ROTATE TURRET TO GAIN ACCESS TO FLOOR BOARDS. See TM 9-2350-366-10-2.

**REPLACE FLOOR PLATES/RUBBER STRIPS — Continued****0343 00**

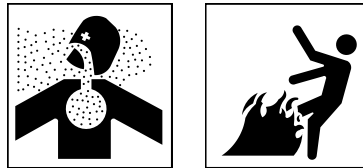
2. REMOVE 20 SCREWS (4) AND LINED WASHERS (5) FROM VEHICLE HULL.
3. REMOVE TWO FRONT FLOOR PLATES (3) AND TWO REAR FLOOR PLATES (1) AND (2) FROM HULL CROSSMEMBERS.
4. IF NEEDED, REMOVE RUBBER STRIPS (6) FROM CROSSMEMBERS BY SCRAPING.

**INSTALLATION**


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**WARNING**


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**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 RUBBER STRIPS (6) WERE REMOVED, APPLY THIN COAT OF ADHESIVE TO ROUGHENED SIDE OF RUBBER SURFACE. ALLOW TO DRY 20-30 MINUTES.
2. APPLY THIN COAT OF ADHESIVE TO METAL SURFACE OF HULL CROSSMEMBERS.
3. ALLOW ADHESIVE TO DRY 30-120 SECONDS.
4. INSTALL RUBBER STRIPS ON CROSSMEMBERS AND PRESS SURFACES TOGETHER FIRMLY.
5. PLACE TWO REAR FLOOR PLATES (1) AND (2) AND TWO FRONT FLOOR PLATES (3) ON CROSS MEMBERS.
6. SECURE FLOOR PLATES AND CROSSMEMBERS TO HULL WITH 20 LINED WASHERS (5) AND SCREWS (4).
7. INSTALL PERSONNEL HEATER FLOOR DUCT (WP 0369 00).
8. INSTALL TURRET BASKET BOTTOM ACCESS COVER. See TM 9-2350-366-10-2.

**END OF TASK**



CHAPTER 32

UNIT MAINTENANCE INSTRUCTIONS  
FOR TURRET SHIELD

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**WORK PACKAGE INDEX**

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| <u>Title</u>                                      | <u>Sequence No.</u> |
|---|---------------------|
| REPAIR TURRET SHIELD DOOR LATCH ASSEMBLY.....     | 0344 00             |
| REPLACE TURRET SHIELD DOOR.....                   | 0345 00             |
| REPLACE TURRET SHIELD DOOR LOWER TRACKS.....      | 0346 00             |
| REPLACE TURRET SHIELD DOOR UPPER TRACK (EAK)..... | 0347 00             |
| REPLACE TURRET SHIELD DOOR LATCH STRIKE.....      | 0348 00             |
| REPLACE TURRET SHIELD DOOR SWITCH ASSEMBLY.....   | 0349 00             |
| REPLACE RIGHT TURRET SHIELD PANEL.....            | 0350 00             |
| REPLACE LEFT TURRET SHIELD PANEL.....             | 0351 00             |



**REPAIR TURRET SHIELD DOOR LATCH ASSEMBLY**

**0344 00**

**THIS WORK PACKAGE COVERS:**

Repair or Replacement (page 0344 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Tools and Special Tools

Unit mechanic's tool kit: automotive  
 (WP 0397 00, Item 64)

Materials/Parts

Lockwasher

Personnel Required

Unit Mech 63T10

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Turret shut down (TM 9-2350-366-10-2)

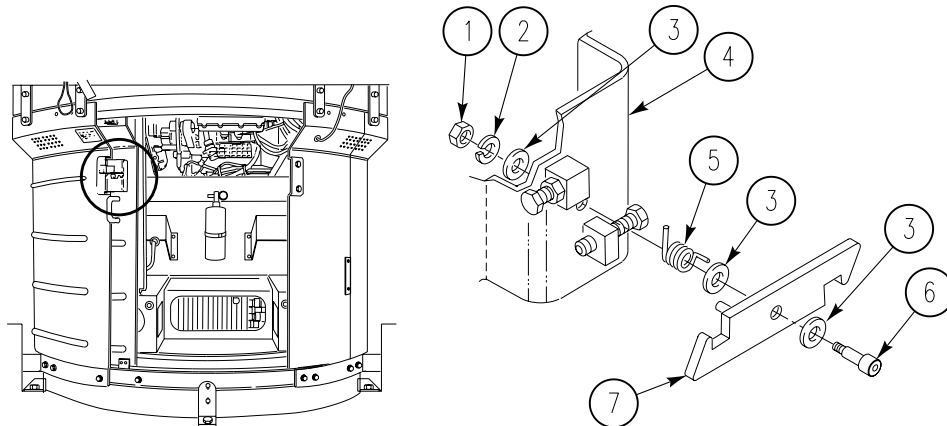
**REPAIR OR REPLACEMENT**

1. CLOSE TURRET SHIELD DOOR (4) HALFWAY.
  - a. Lift latch (7) and move door (4) halfway to right.
2. REMOVE LATCH ASSEMBLY FROM DOOR (4).
  - a. Remove nut (1), lock washer (2), three washers (3), screw (6), latch (7), and spring (5) from door (4). Discard lock washer.

**NOTE**

**Be sure that spring stem is pointing up when installing latch assembly on door. Spring stem must rest against block above latch.**

3. INSTALL LATCH ASSEMBLY ON DOOR (4).
  - a. Install three washers (3), spring (5), latch (7), screw (6), new lock washer (2), and nut (1) on door (4).



**END OF TASK**



**REPLACE TURRET SHIELD DOOR**

**0345 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0345 00-1).
- Installation (page 0345 00-6).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

Unit mechanic's tool kit: automotive  
(WP 0398 00, Item 64)

Personnel Required

Unit Mech 63T10  
Helper (H)

References

- TM 9-2350-366-10-1
- TM 9-2350-366-10-2

Equipment Condition

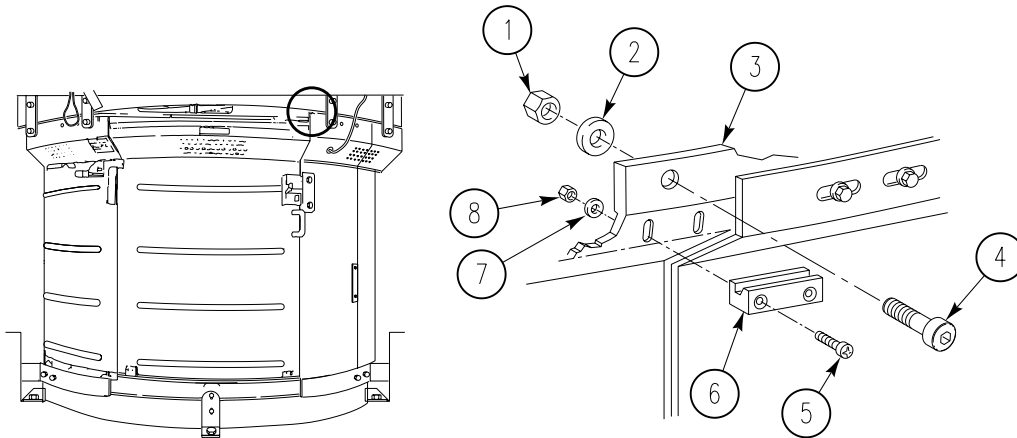
- Engine stopped (TM 9-2350-366-10-1)
- Turret shut down (TM 9-2350-366-10-2)

**NOTE**

**Mechanic will work inside turret and helper will work outside turret when removing and installing door.**

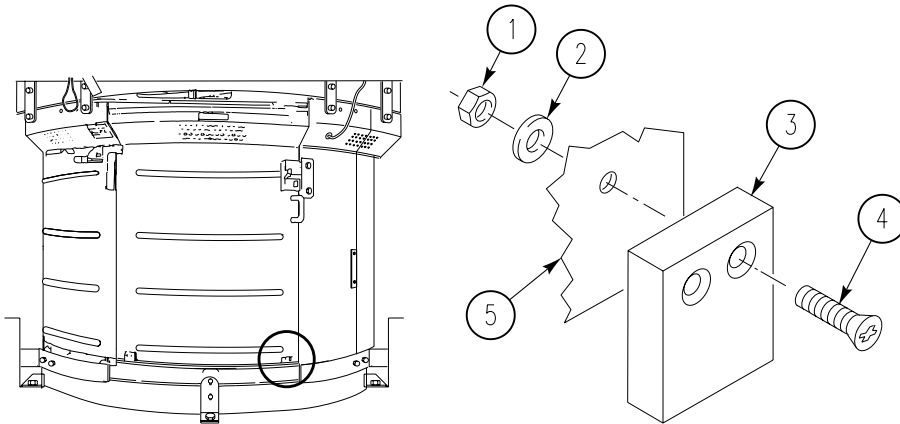
**REMOVAL**

1. REMOVE RIGHT SIDE UPPER BLOCK (6) FROM DOOR (3).



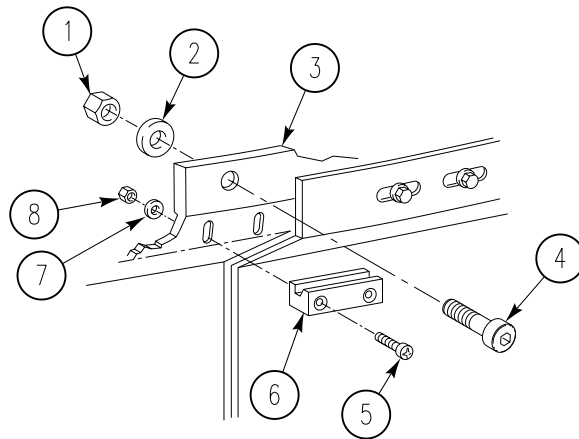
- a. Remove two locknuts (8), washers (7), screws (5), and upper block (6) from door (3). Discard locknuts.

2. REMOVE RIGHT SIDE LOWER BLOCK (3) FROM DOOR (5).



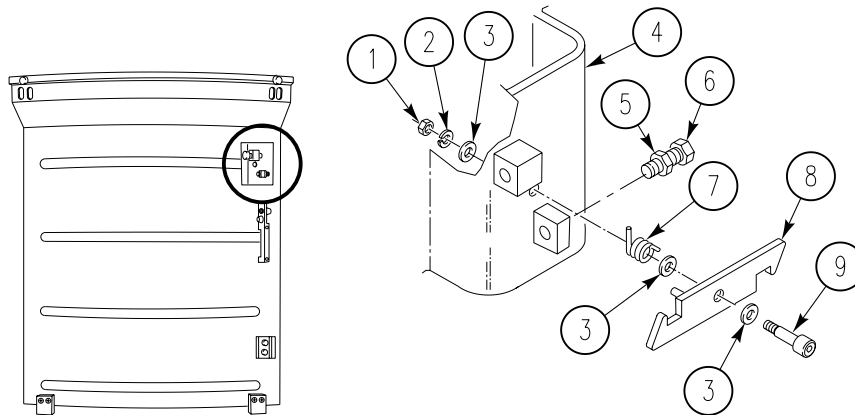
- a. Remove two locknuts (1), washers (2), screws (4), and lower block (3) from door (5). Discard locknuts.

3. REMOVE RIGHT SIDE BEARING (4) FROM DOOR (3).



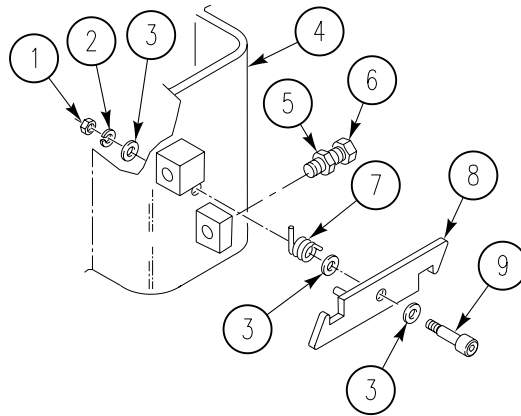
- a. Remove locknut (1), washer (2), and right side bearing (4) from door (3). Discard locknut.

4. REMOVE LATCH ASSEMBLY FROM DOOR (4).



- a. Remove nut (1), lock washer (2), three washers (3), screw (9), latch (8), and spring (7) from door (4). Discard lock washer.

5. REMOVE DOOR SCREW (6) FROM DOOR (4).

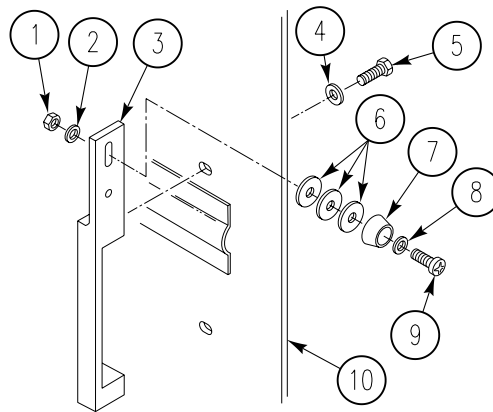


- a. Loosen jamnut (5).
- b. Remove screw (6) and jamnut (5) from door (4).

**NOTE**

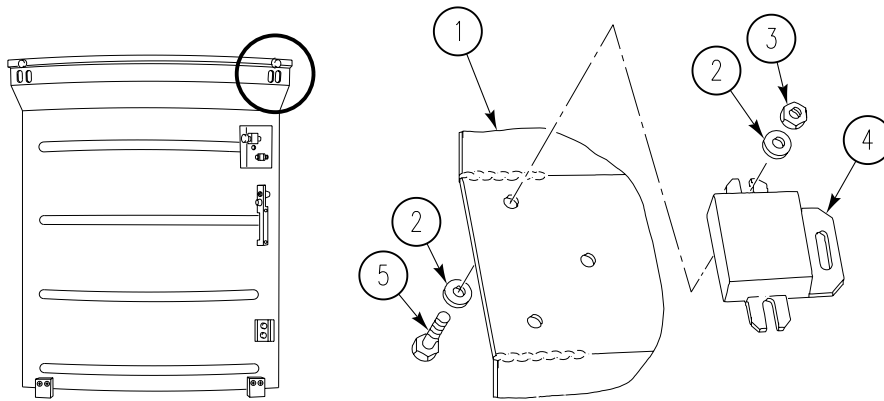
**There are two door bumpers, one on each side of handle. Both are replaced the same way.**

6. REMOVE HANDLE (3) AND DOOR BUMPER (7) FROM DOOR (10).



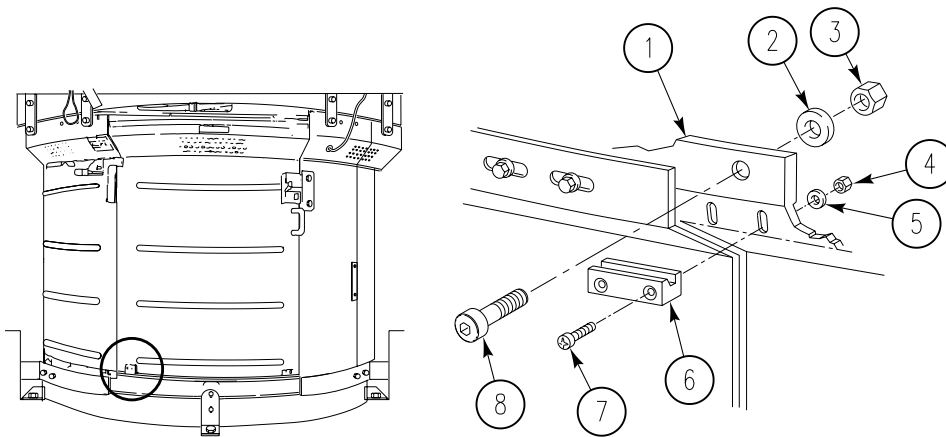
- a. Remove screw (9), washer (8), bumper (7), washer(s) (6), washer (2), and locknut (1) from handle (3). Discard locknut.
- b. Remove two lock screws (5), washers (4), and handle (3) from door (10). Discard lock screws.

7. REMOVE MAGNET ASSEMBLY (4) FROM DOOR (1).



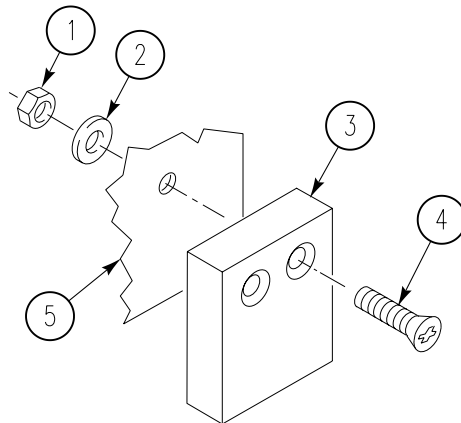
- a. Remove three screws (5), six flat washers (2), magnet assembly (4), and three locknuts (3) from door (1). Discard locknuts.

8. REMOVE LEFT SIDE UPPER BLOCK (6) FROM DOOR (1).



- a. Remove two locknuts (4), washers (5), screws (7), and upper block (6) from door (1). Discard locknuts.

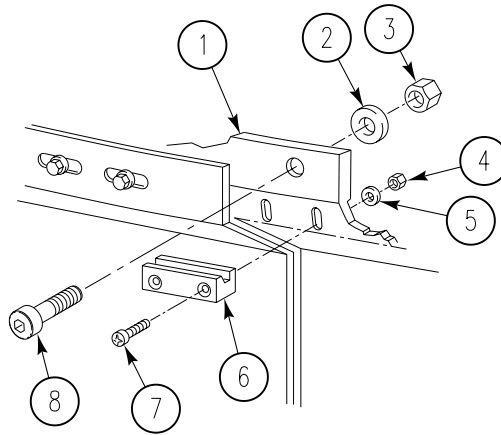
9. REMOVE LEFT SIDE LOWER BLOCK (3) FROM DOOR (5).



- a. Remove two locknuts (1), washers (2), screws (4), and lower block (3) from door (5). Discard locknuts.

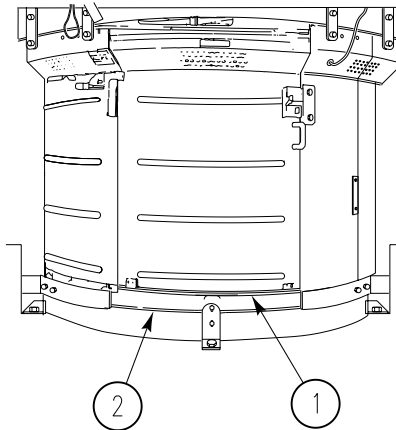


10. REMOVE LEFT SIDE BEARING (8) FROM DOOR (1).



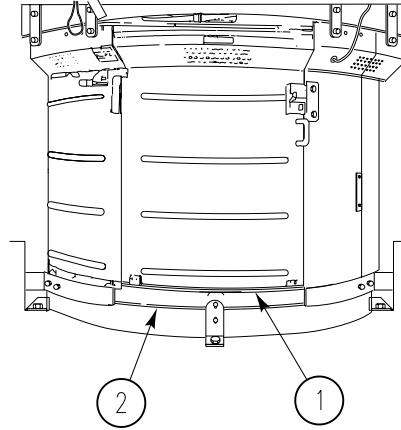
a. Remove locknut (3), washer (2), and left side bearing (8) from door (1). Discard locknut.

11. LIFT DOOR (2) FROM LOWER DOOR TRACK (1) AND PLACE ON FLAT SURFACE.

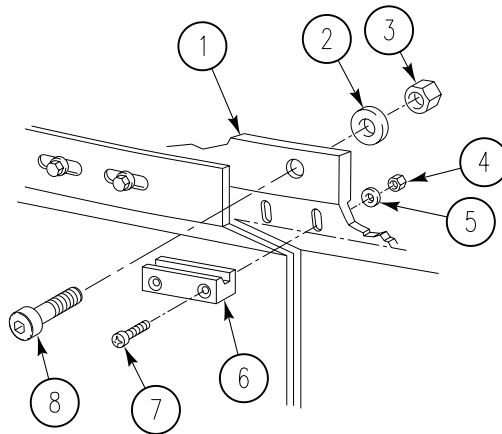


**INSTALLATION**

1. INSTALL DOOR (2) IN LOWER DOOR TRACK (1).

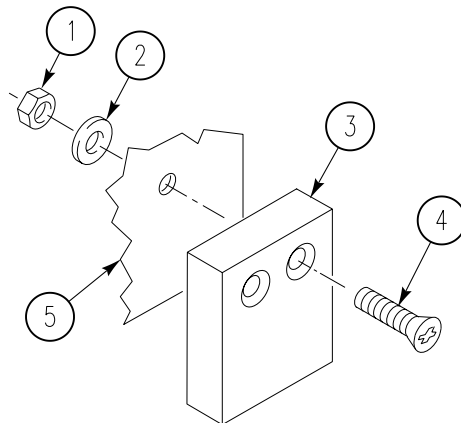


2. INSTALL LEFT SIDE BEARING (8) ON DOOR (1).



- a. Install left side bearing (8), washer (2), and new locknut (3) on door (1).

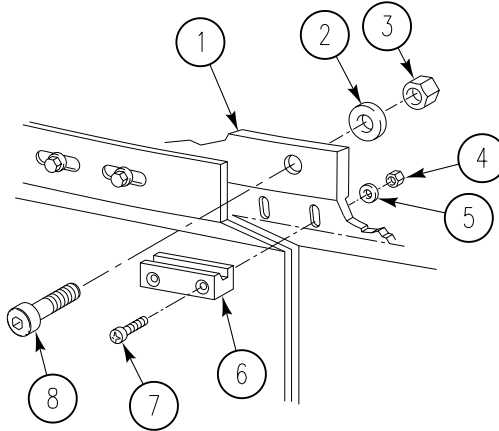
3. INSTALL LEFT SIDE LOWER BLOCK (3) ON DOOR (5).



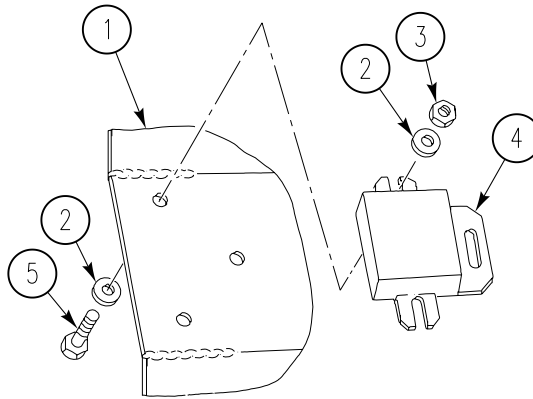
- a. Install lower block (3), two screws (4), washers (2), and new locknuts (1) on door (5).

4. INSTALL LEFT SIDE UPPER BLOCK (6) ON DOOR (1).

- a. Install upper block (6), two screws (7), washers (5), and new locknuts (4) on door (1).

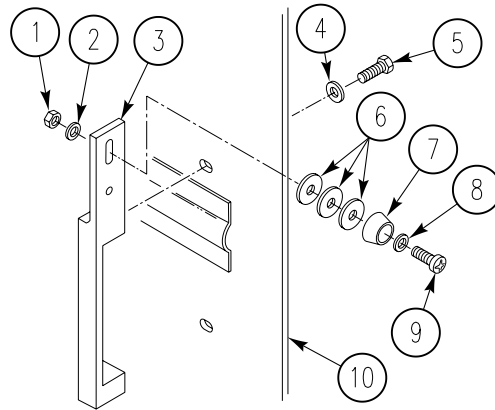


5. INSTALL MAGNET ASSEMBLY (4) ON DOOR (1).



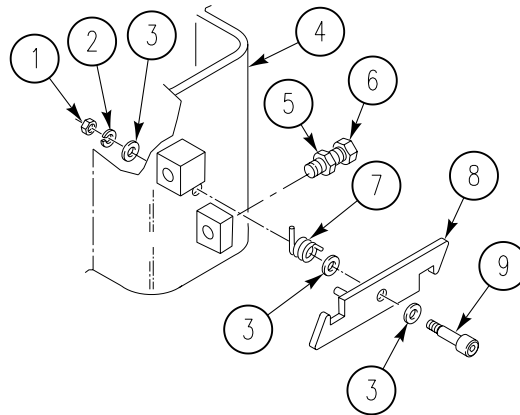
- a. Install three screws (5), six flat washers (2), magnet assembly (4), and three new locknuts (3) on door (1).

6. INSTALL HANDLE (3) AND DOOR BUMPER (7) ON DOOR (10).



- a. Install two new lock screws (5), washers (4), and handle (3) on door (10).
- b. Install screw (9), washer (8), bumper (7), washer(s) (6), washer (2), and new locknut (1) on handle (3).
- c. Use washer(s) (6) as shim(s) as required to ensure good contact between bumper (7) and door block when door is locked shut.

7. INSTALL DOOR SCREW (6) ON NEW DOOR (4).

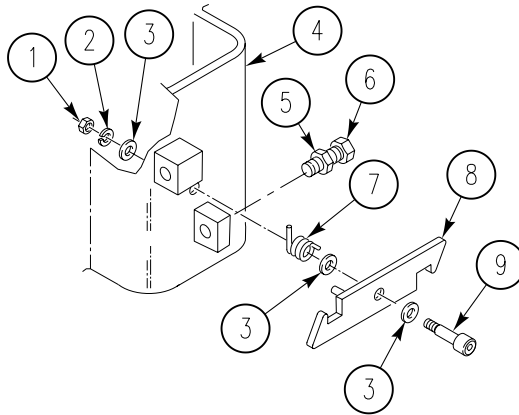


- a. Install jamnut (5) and screw (6) on door (4).
- b. Tighten jamnut (5).

**NOTE**

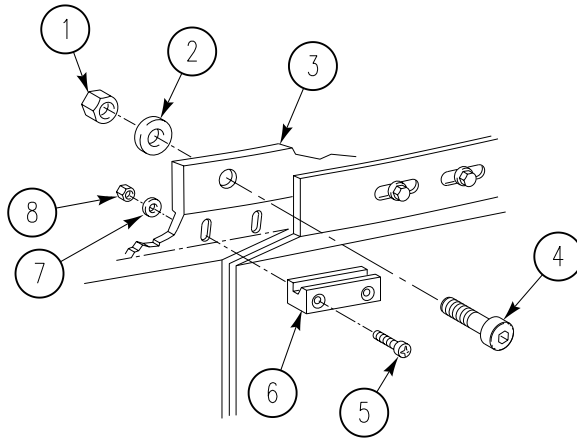
**Be sure that spring stem is pointing up when installing latch assembly on door. Spring stem must rest against block above latch.**

8. INSTALL LATCH ASSEMBLY ON DOOR (4).



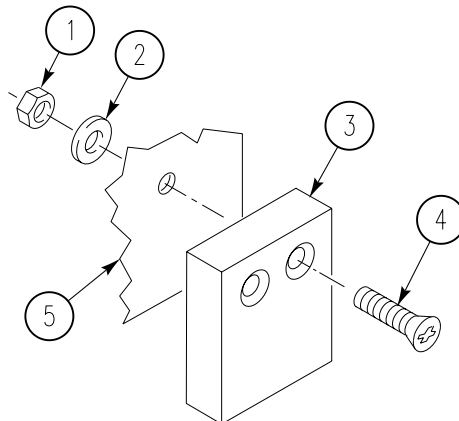
- a. Install three washers (3), spring (7), latch (8), screw (9), new lock washer (2), and nut (1) on door (4).

9. INSTALL RIGHT SIDE BEARING (4) ON DOOR (3).



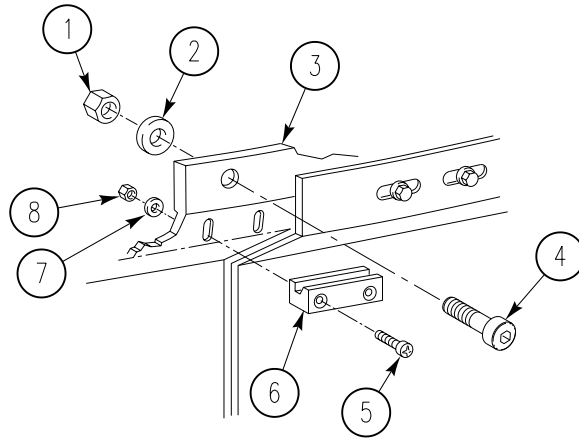
- a. Install bearing (4), washer (2), and new locknut (1) on door (3).

10. INSTALL RIGHT SIDE LOWER BLOCK (3) ON DOOR (5).



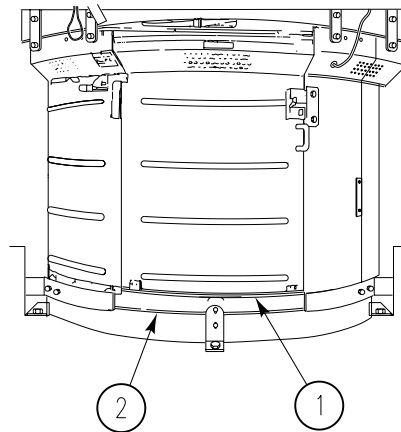
a. Install lower block (3), two washers (2), screws (4), and new locknuts (1) on door (5).

11. INSTALL RIGHT SIDE UPPER BLOCK (6) ON DOOR (3).



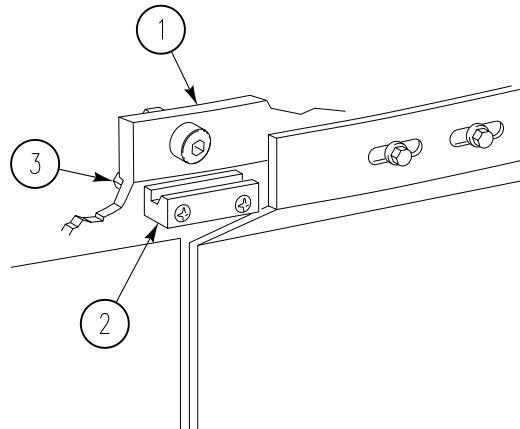
a. Install upper block (6), two washers (7), screws (5), and new locknuts (8) on door (3).

12. CHECK DOOR (1) OPERATION.



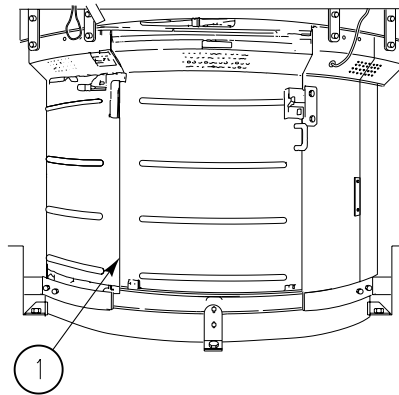
a. Close and open door (1). If door moves freely, without binding, go to Step 13.

b. If door (1) binds, loosen four locknuts (3) on two upper blocks (2), and adjust upper blocks until door moves freely.

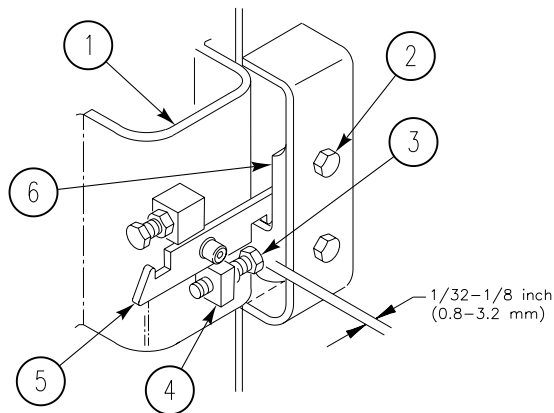


c. Tighten four locknuts (3) on two upper blocks (2).

13. ADJUST LATCH ASSEMBLY STOP SCREW FOR TURRET SHIELD DOOR (1) IN CLOSED POSITION.

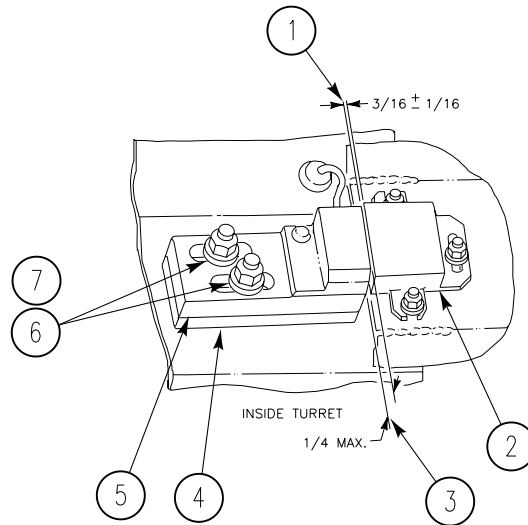


- a. Close door (1) and engage latch assembly (5) in strike (6).

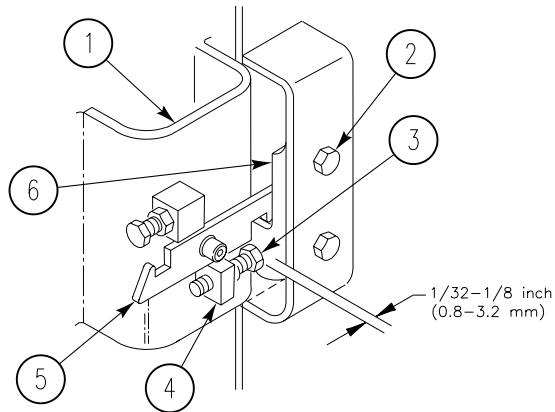


- b. Loosen jamnut (4).
- c. Move door (1) back until latch assembly (5) makes full contact with strike (6).
- d. Adjust latch assembly stop screw (3) until a clearance of 1/32 - 1/8 inch (0.8 - 3.2 mm) is obtained between head of screw and strike (6).
- e. Tighten jamnut (4).

14. ALIGN TOP OF SWITCH (5) TO TOP OF MAGNET ASSEMBLY (2) WITHIN 1/4 INCH (6.4 MM) OR LESS.

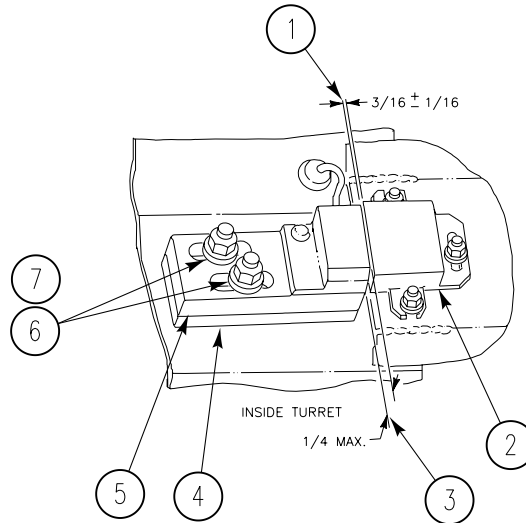


a. Close door (1) and engage latch assembly (5) in latch strike (6).



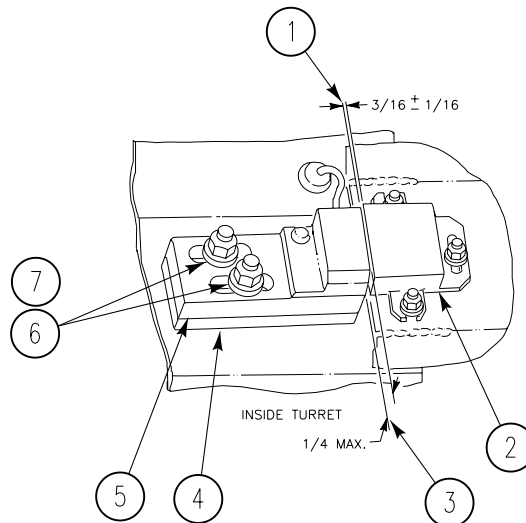


- b. Measure top of switch (5) against top of magnet assembly (2). If measurement (3) is more than 1/4 inch (6.4 mm), remove two locknuts (6), washers (7), and switch (5) from door. Reduce or increase the size of spacer plate (4).



- c. Install switch (5), two washers (7), and locknuts (6) on door.

15. ADJUST GAP (1) BETWEEN MAGNET ASSEMBLY (2) AND SWITCH (5) TO 3/16 INCH (4.8 MM).

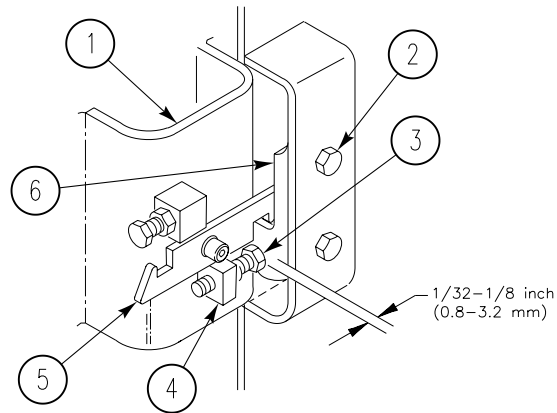


- a. Close door (1) and engage latch assembly (5) in latch strike (6).
- b. Measure gap (1) between magnet assembly (2) and switch (5). If gap is more than 1/4 inch (6.4 mm), loosen two locknuts (6) and adjust switch to 3/16 inch (4.8 mm).
- c. Tighten two locknuts (6).

**NOTE**

Do Step 16 only if latch does not open freely and lock in open or closed position.

## 16. ADJUST LATCH STRIKE (6).



- a. Loosen two screws (2) on latch strike (6).
- b. Move latch strike (6) up or down to adjust.
- c. Tighten two screws (2).

**END OF TASK**

**REPLACE TURRET SHIELD DOOR LOWER TRACKS**

**0346 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0346 00-1).  
 Installation (page 0346 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

Unit mechanic's tool kit: automotive  
 (WP 0398 00, Item 64)

Personnel Required

Unit Mech 63T10  
 Helper (H)

References

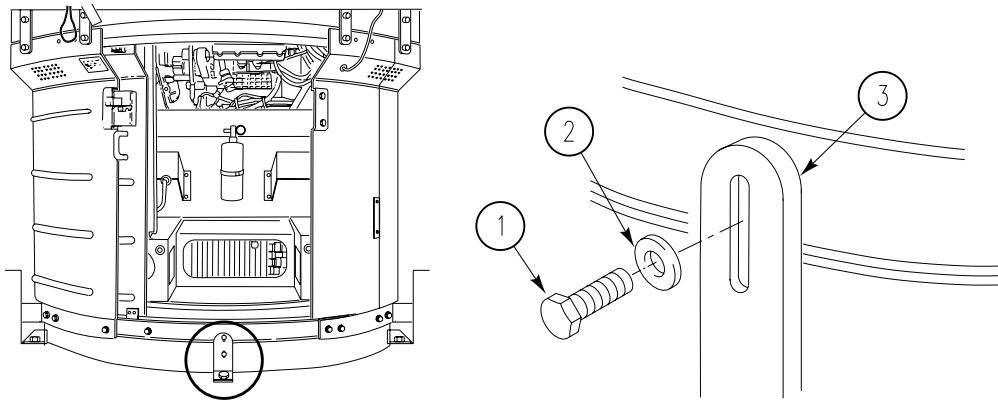
TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Equipment Condition

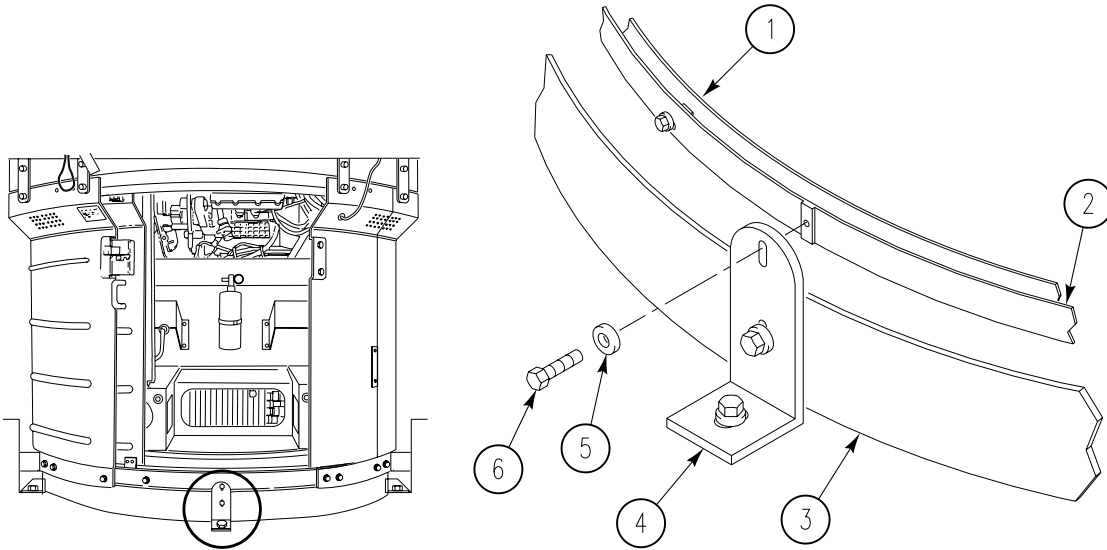
Engine stopped (TM 9-2350-366-10-1)  
 Turret shut down (TM 9-2350-366-10-2)

**REMOVAL**

1. REMOVE TURRET SHIELD DOOR (WP 0345 00).
2. REMOVE THREE SCREWS (1) AND WASHERS (2) FROM THREE BRACKETS (3).

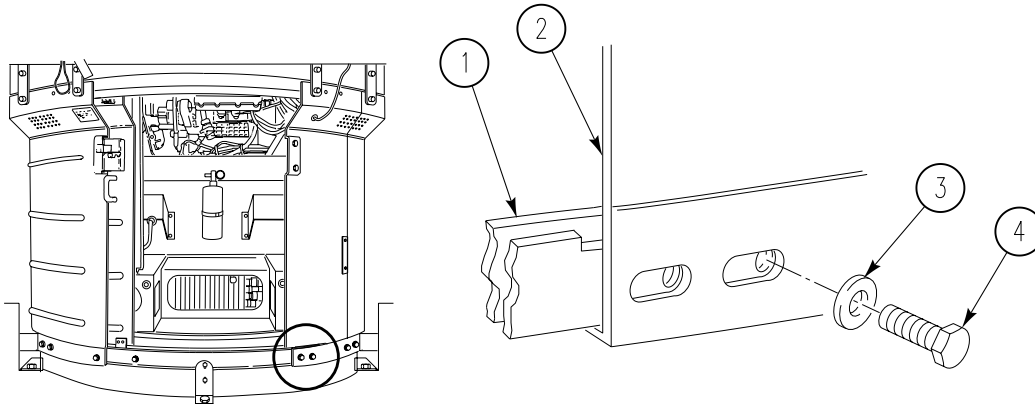


3. REMOVE TRACK (6) FROM LEFT PANEL (5).



a. Remove two screws (1) and washers (2) from left panel (5).

4. REMOVE TRACK (1) FROM RIGHT PANEL (2).



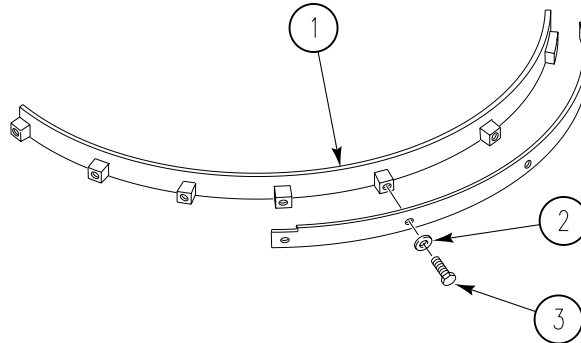
a. Remove two screws (4) and washers (3) from right panel (2).

5. REMOVE TRACK (6)(1) FROM LEFT PANEL (5) AND RIGHT PANEL (2).

**NOTE**

Do Step 6 and Installation Step 1 only if replacing damaged portion of track.

6. SEPARATE TRACK (1).



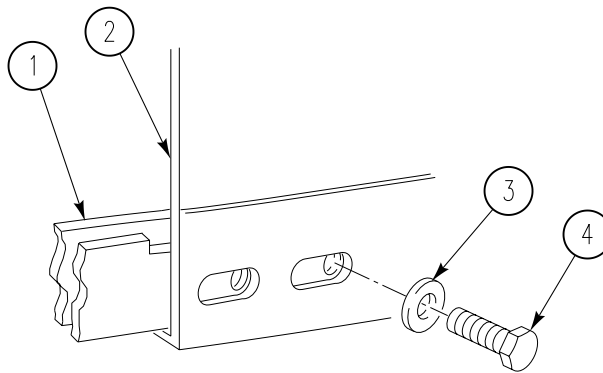
- a. Remove screw (3) and washer (2) from track (1).
- b. Separate track (1).

**INSTALLATION**

1. ASSEMBLE TRACK (1).

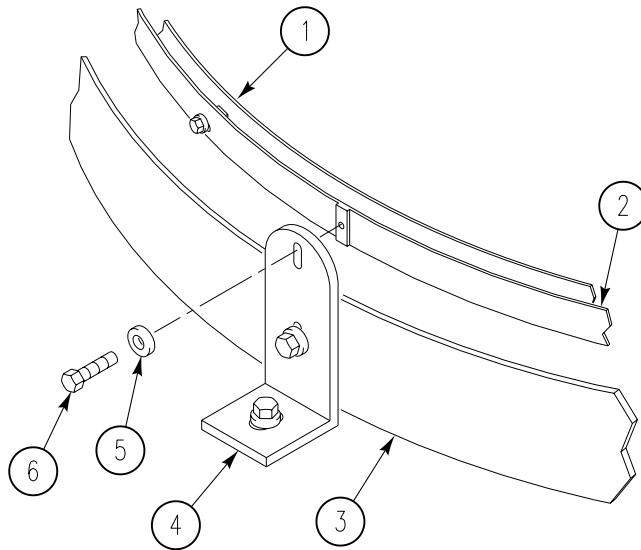
- a. Position track (1) together.
- b. Install washer (2) and screw (3) in track (1).

2. INSTALL TRACK (1) ON RIGHT PANEL (2).



- a. Align track (1) with right panel (2).
- b. Install track (1), two washers (3), and screws (4) in right panel (2). Do not tighten screws.

3. INSTALL TRACK (6) ON LEFT PANEL (5).



- a. Install track (6), two washers (2), and screws (1) in left panel (1). Do not tighten screws.
  - b. Tighten four screws (4)
4. INSTALL THREE TOP WASHERS (2) AND SCREWS (1) ON THREE BRACKETS (3).
5. INSTALL TURRET SHIELD DOOR (WP 0345 00).

**END OF TASK**

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**REPLACE TURRET SHIELD DOOR UPPER TRACK (EAK)**

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**0347 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0347 00-1).  
 Installation (page 0347 00-2).

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**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Tools and Special Tools

Unit mechanic's tool kit: automotive  
 (WP 0398 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Turret shut down (TM 9-2350-366-10-2)

Materials/Parts

Sealing compound  
 Sealing compound primer

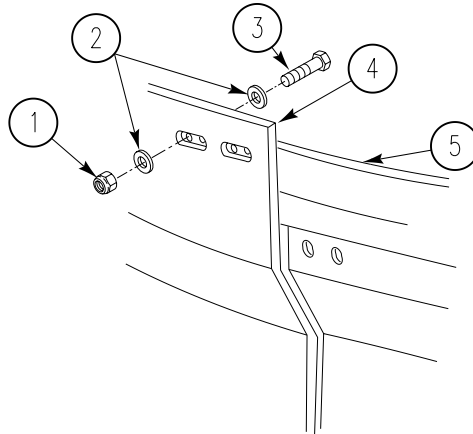
Personnel Required

Unit Mech 63T10  
 Helper (H)

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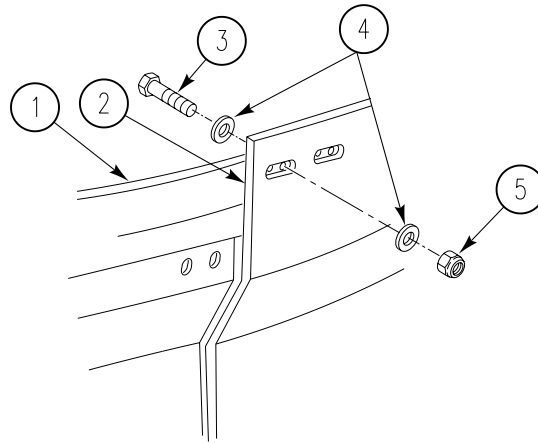
**REMOVAL**

1. REMOVE TURRET SHIELD DOOR (WP 0345 00).
2. REMOVE UPPER TRACK (5) FROM LEFT TURRET SHIELD PANEL (4).



- a. (H): Manually traverse turret, as necessary, to access four screws (3) on upper track (5) and left turret shield panel (4). See TM 9-2350-366-10-2.
  - b. Remove four nuts (1), eight washers (2), screws (3), and upper track (5) from left turret shield panel (4).
3. (H): MANUALLY TRAVERSE TURRET TO 6400 MILS. See TM 9-2350-366-10-2.

4. REMOVE UPPER TRACK (1) FROM RIGHT TURRET SHIELD PANEL (2).



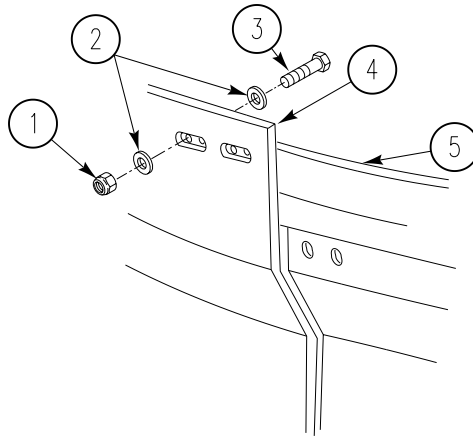
- a. Remove two nuts (5), four washers (4), screws (3), and upper track (1) from right turret shield panel (2).

**INSTALLATION**

1. INSTALL UPPER TRACK (1) IN RIGHT TURRET SHIELD PANEL (2).

- a. Apply primer and sealing compound to threads of two screws (3).  
 b. Install two screws (3), four washers (4), nuts (5), and upper track (1) on right turret shield panel (2).

2. INSTALL UPPER TRACK (5) ON LEFT TURRET SHIELD PANEL (4).



- a. (H): Manually traverse turret, as necessary, to install four screws (3). See TM 9-2350-366-10-2.  
 b. Apply primer and sealing compound to four screws (3).  
 c. Install four screws (3), eight washers (2), four nuts (1), and upper track (5) on left turret shield panel (4).

3. (H): MANUALLY TRAVERSE TURRET TO 6400 MILS. See TM 9-2350-366-10-2.

4. INSTALL TURRET SHIELD DOOR (WP 0345 00).

**END OF TASK**



**REPLACE TURRET SHIELD DOOR LATCH STRIKE**

**0348 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0348 00-1).  
 Installation (page 0348 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Tools and Special Tools

Unit mechanic's tool kit: automotive  
 (WP 0398 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Turret shut down (TM 9-2350-366-10-2)

Materials/Parts

Self locking nut (2)

Personnel Required

Unit Mech 63T10

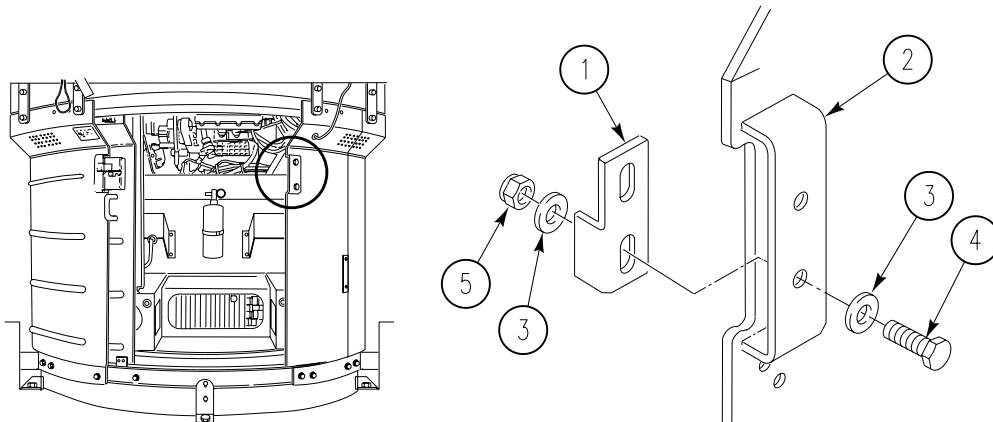
**REMOVAL**

1. TO REMOVE LEFT LATCH STRIKE, CLOSE TURRET SHIELD DOOR. See TM 9-2350-366-10-2.
2. TO REMOVE RIGHT LATCH STRIKE, OPEN TURRET SHIELD DOOR. See TM 9-2350-366-10-2.

**NOTE**

**Procedure to replace left and right latch strikes is the same. Right side is shown.**

3. REMOVE LATCH STRIKE (1) FROM PANEL (2).

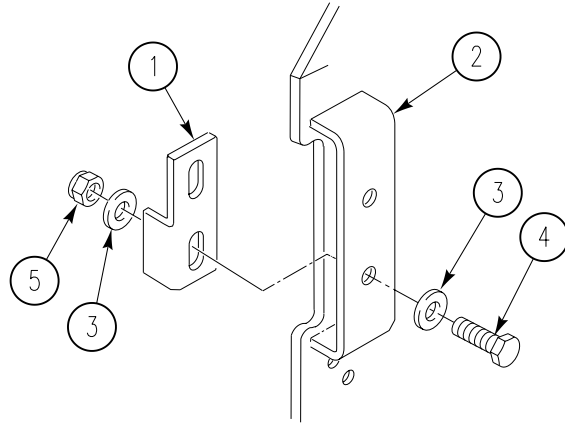


- a. Remove two locknuts (5), screws (4), four washers (3), and latch strike (1) from panel (2). Discard locknuts.

**INSTALLATION**

1. INSTALL LATCH STRIKE (1) ON PANEL (2).

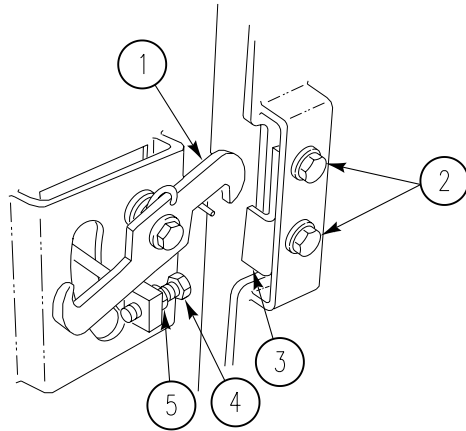
- a. Install latch strike (1), four washers (3), two screws (4), and new locknuts (5) on panel (2). Do not tighten screws.



**NOTE**

**When properly adjusted, latch should open freely and lock when door is in open or closed position.**

2. CHECK LATCH (1) OPERATION.



- a. If latch (1) does not open freely or lock in open or closed position, adjust latch strike. Go to Step 3.
- b. If latch (1) opens freely and locks in open or closed position, go to Step 4.
- c. If latch (1) does not close freely or lock in closed position, turn stop screw (4) in or out until adjusted correctly.
- d. Tighten nut (5) to secure the adjustment.

3. ADJUST LATCH STRIKE (3).

- a. Move latch strike (3) up or down to adjust.
- b. Repeat Step 2.

4. TIGHTEN TWO SCREWS (2).

**END OF TASK**

**REPLACE TURRET SHIELD DOOR SWITCH ASSEMBLY**

**0349 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0349 00-1).  
 Installation (page 0349 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Tools and Special Tools

Unit mechanic's tool kit (WP 0398 00, Item 64)

Personnel Required

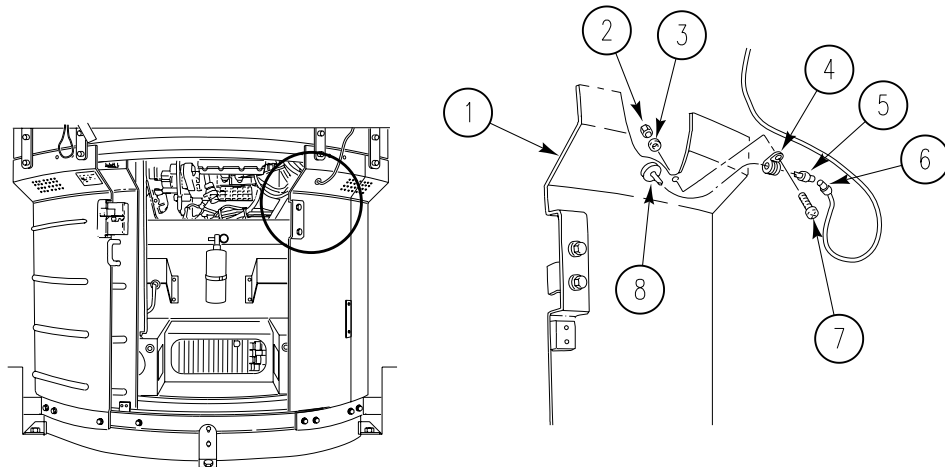
Unit Mech 63T10  
 Helper (H)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Turret shut down (TM 9-2350-366-10-2)

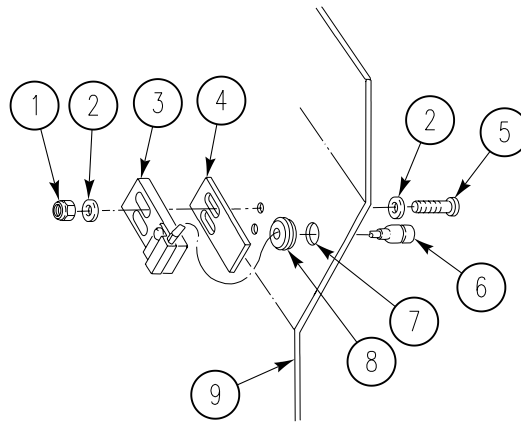
**REMOVAL**

1. OPEN REAR DOORS. See TM 9-2350-366-10-1.
2. REMOVE VEHICLE GROUND CABLE (WP 0237 00).
3. OPEN TURRET SHIELD DOOR. See TM 9-2350-366-10-2.
4. REMOVE PLUG 1W19P1 (6) FROM SWITCH CONNECTOR (5).



5. REMOVE SCREW (7), LOCKNUT (2), WASHER (3), AND CLAMP (4) FROM SWITCH CONNECTOR (5) AND TURRET PANEL (1).
6. REMOVE GROMMET (8) AND PULL SWITCH CONNECTOR (5) INSIDE TURRET FROM RIGHT PANEL (1).

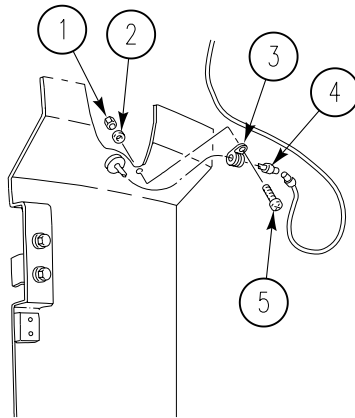
7. REMOVE SWITCH ASSEMBLY (3) FROM INSIDE OF RIGHT TURRET SHIELD PANEL (9).



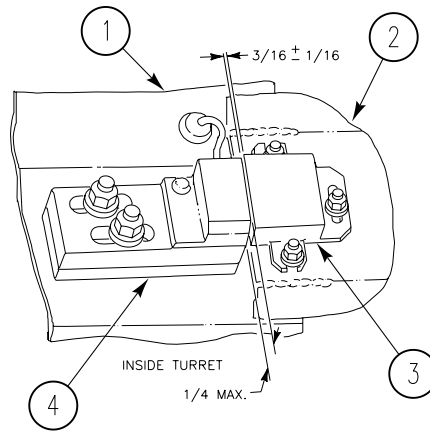
- a. Remove two locknuts (1), four washers (2), and two screws (5) from switch assembly (3), spacer plate(s) (4) if used, and right turret shield panel (9). Discard locknuts.

**INSTALLATION**

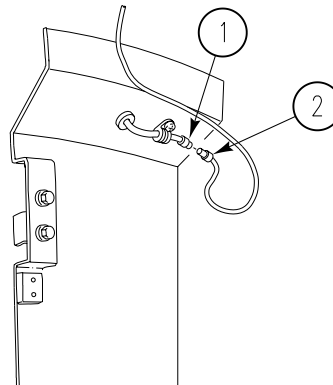
1. INSTALL SWITCH ASSEMBLY (3) ON INSIDE OF RIGHT TURRET SHIELD PANEL (9).
- a. Install two screws (5), four washers (2), spacer plate(s) (4) if required, switch assembly (3), and two new locknuts (1). Do not tighten locknuts until adjustment of switch and magnet assembly is completed.
- b. Route switch connector (6) into hole (7) of right turret shield panel (9).
- c. Install rubber grommet (8) in hole (7) of right turret shield panel (9).
- d. Install clamp (3), screw (5), washer (2), and new locknut (1) on switch connector (3) and turret shield panel.



2. ADJUST POSITION OF SWITCH ASSEMBLY (4) TO MAGNET ASSEMBLY (3).



- a. Close turret shield door (2) to locked position and adjust clearance of switch (4) on right turret shield panel (1) to magnet assembly (3) on turret shield door (2) to  $3/16 \pm 1/16$  inch gap.
  - b. Verify that magnet assembly (3) does not strike switch assembly (4) when turret shield door (2) is slammed shut. Adjust height of switch assembly (4) to magnet assembly (3) to  $1/4$  inch maximum.
  - c. If the height of switch assembly (4) does not align with magnet assembly (3), go back to Step 1 (a). Reduce or increase spacer plate until alignment is obtained.
  - d. Tighten two locknuts to secure switch assembly (4) on right turret shield panel (1) after adjustment is completed.
3. INSTALL SWITCH CONNECTOR (1) TO PLUG 1W19P12 (2).



4. CLOSE TURRET SHIELD DOOR. See TM 9-2350-366-10-2.
5. INSTALL VEHICLE GROUND CABLE (WP 0237 00).
6. RAISE RAMP. See TM 9-2350-366-10-1.

**END OF TASK**



**REPLACE RIGHT TURRET SHIELD PANEL**

**0350 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0350 00-1).  
 Installation (page 0350 00-5).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Tools and Special Tools

Unit mechanic's tool kit: automotive  
 (WP 0398 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Turret shut down (TM 9-2350-366-10-2)

Materials/Parts

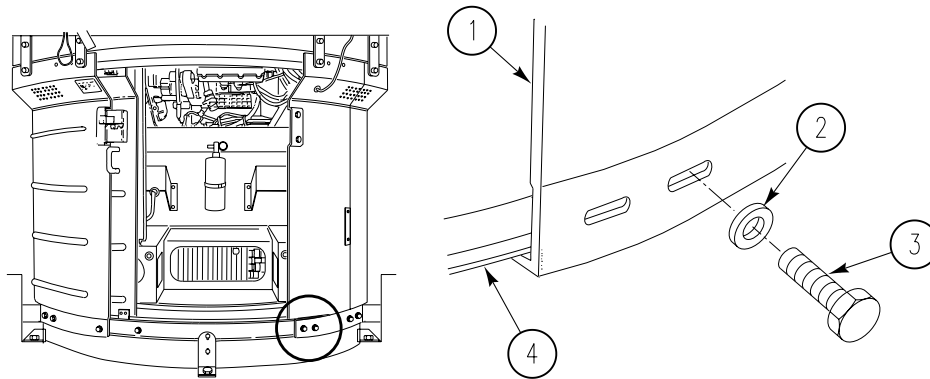
Sealing compound  
 Sealing compound primer

Personnel Required

Unit Mech 63T10

**REMOVAL**

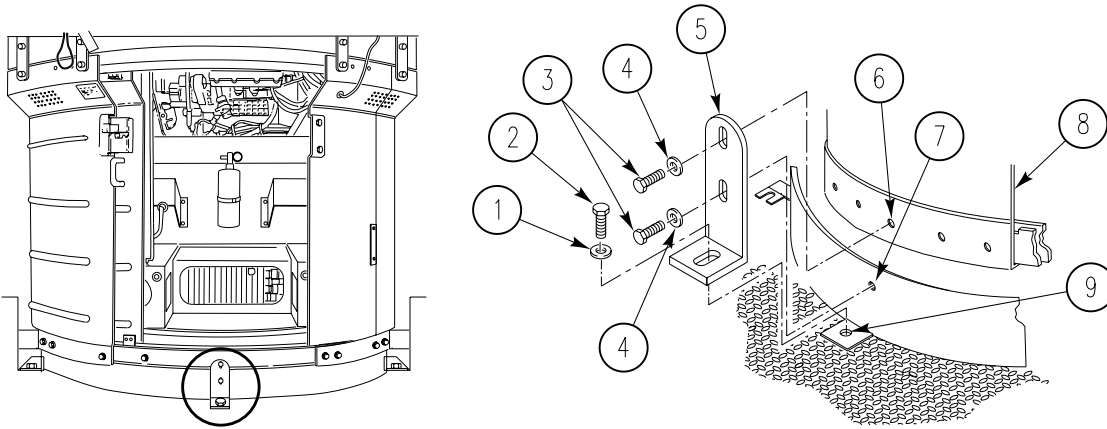
1. STOW RIGHT SIDE BENCH SEAT. See TM 9-2350-366-10-1.
2. STOW LEFT SIDE BENCH SEAT. See TM 9-2350-366-10-1.
3. REMOVE TWO SCREWS (3) AND WASHERS (2) FROM PANEL (1) AND LOWER TRACK (4).



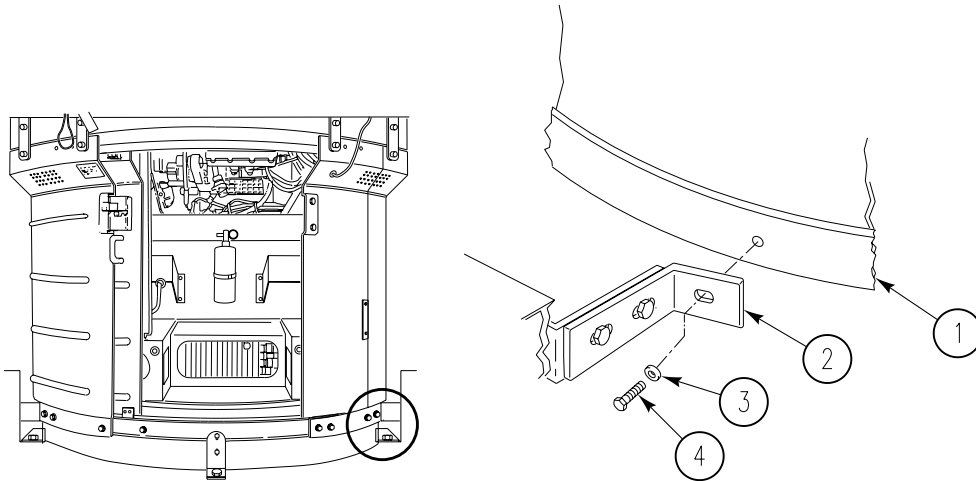
REPLACE RIGHT TURRET SHIELD PANEL — Continued

0350 00

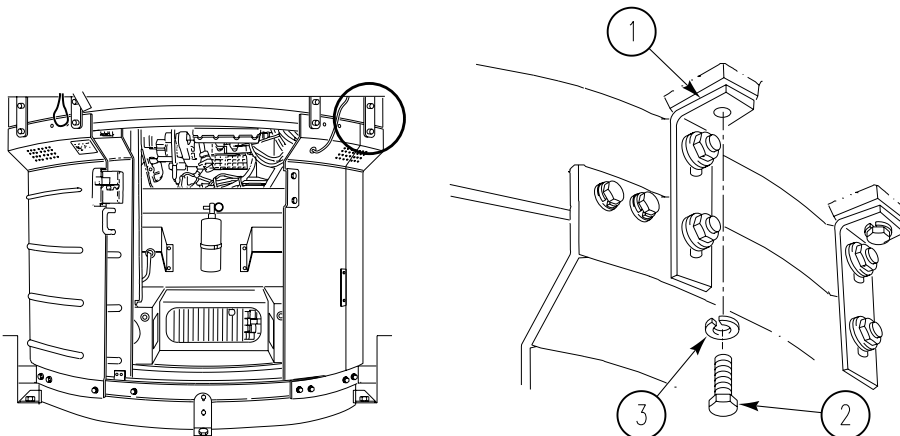
4. REMOVE BRACKET SUPPORT (5) FROM PANEL (8) AND FLOOR (9).



- a. Remove two screws (3) and washers (4) from bracket support (5) and panel (8).
  - b. Remove screw (2), washer (1), and bracket support (9) from floor.
5. REMOVE SCREW (4) AND WASHER (3) FROM SUPPORT (2) AND PANEL (1).



6. REMOVE TWO SCREWS (2) AND LOCK WASHERS (3) FROM SUPPORTS (1) AND HULL CEILING. DISCARD LOCK WASHERS.

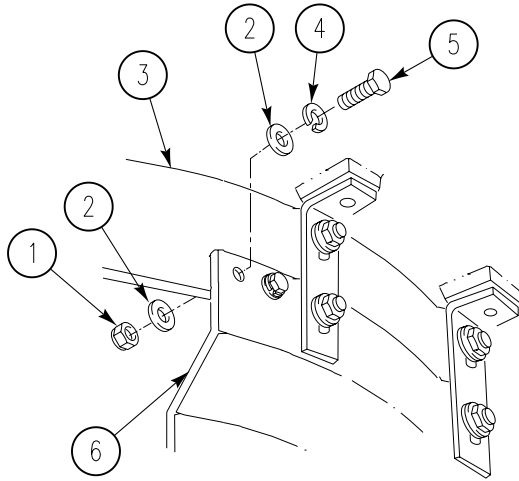




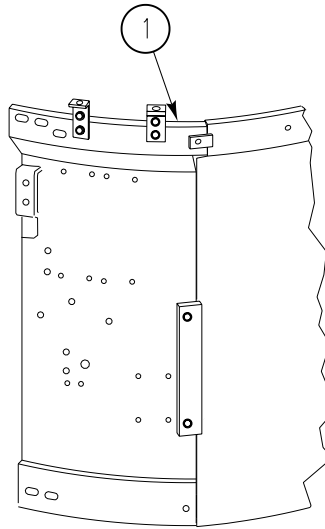
REPLACE RIGHT TURRET SHIELD PANEL — Continued

0350 00

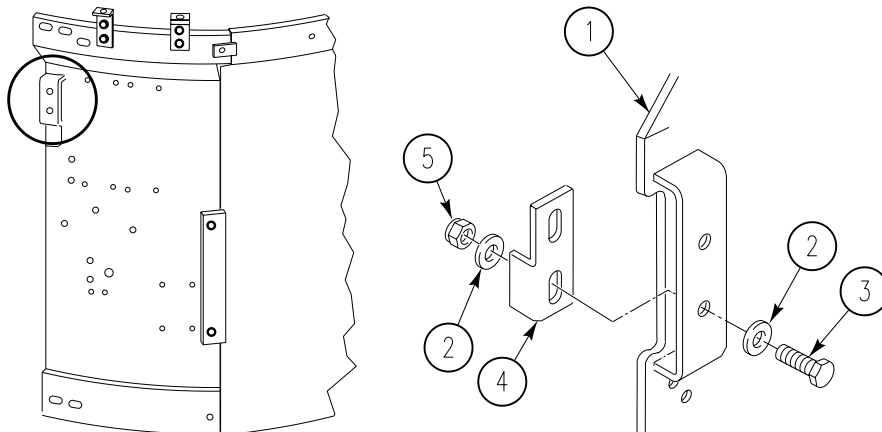
- REMOVE TWO NUTS (1), SCREWS (5), LOCK WASHERS (4), AND WASHERS (2) FROM PANEL (6) AND UPPER TRACK (3). DISCARD LOCK WASHERS.



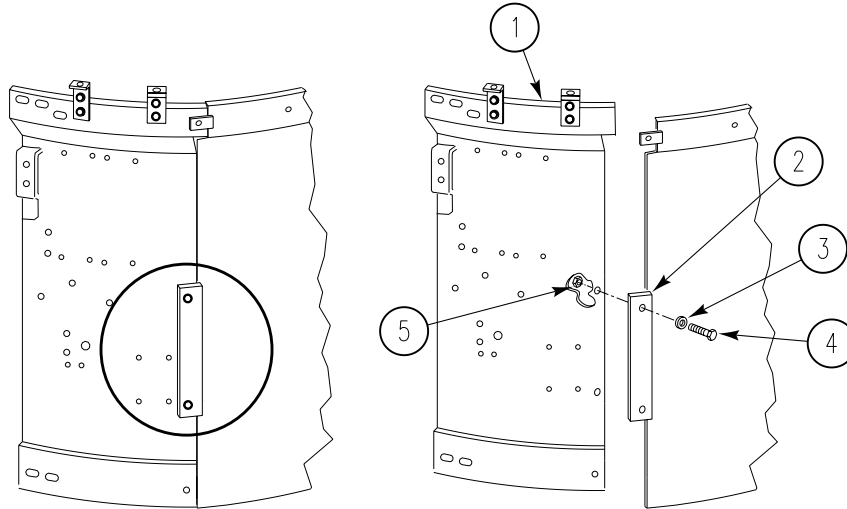
- REMOVE PANEL (1) FROM VEHICLE. PLACE PANEL ON WORKBENCH.



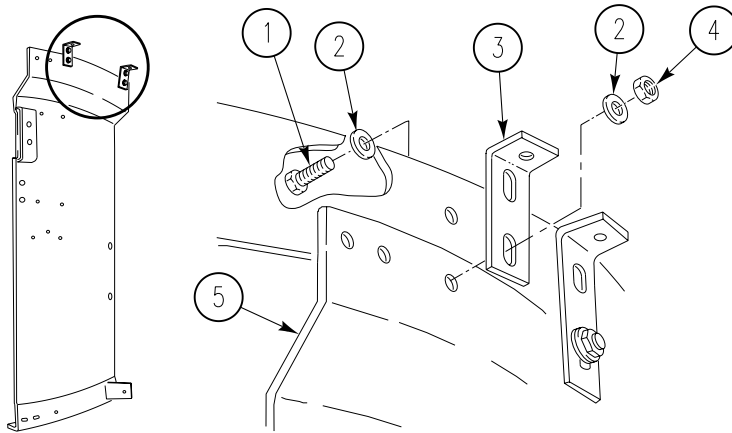
- REMOVE LATCH STRIKE (4) FROM PANEL (1).



- a. Remove two locknuts (5), screws (3), four washers (2), and latch strike (4) from panel (1). Discard locknuts.
10. REMOVE PANEL (1) FROM GUARD (2).

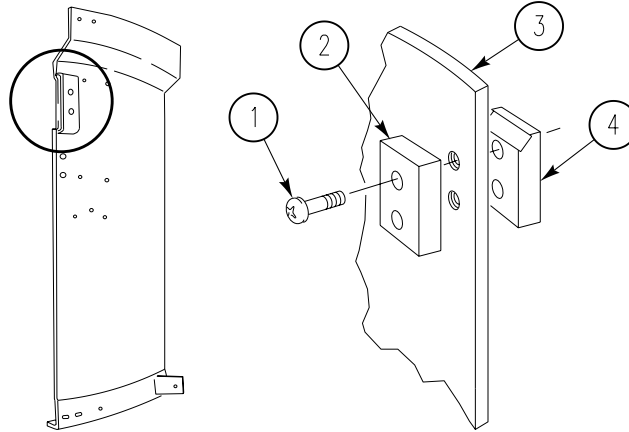


- a. Remove two locknuts (5), screws (4), washers (3), and panel (1) from guard (2). Discard locknuts.
11. REMOVE TWO SUPPORTS (3) FROM TOP OF PANEL (5).



- a. Remove two locknuts (4), four washers (2), two screws (1), washers (2), and supports (3) from top of panel (5). Discard locknuts.

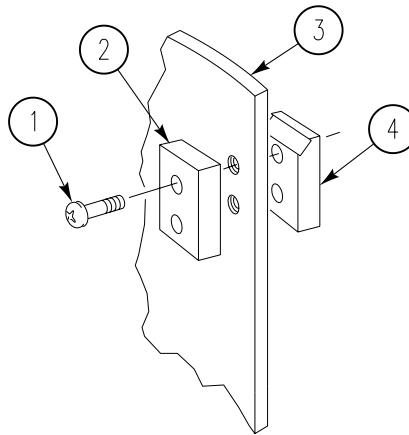
12. REMOVE OUTER BLOCK (4) AND INNER BLOCK (2) FROM PANEL (3).



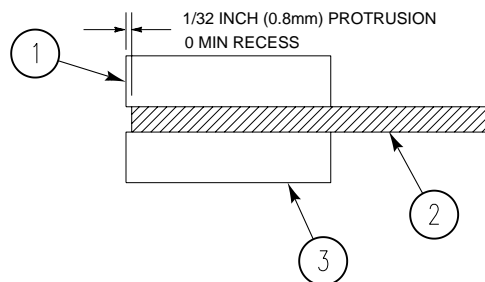
- a. Remove two screws (1), inner block (2), and outer block (4) from panel (3).

**INSTALLATION**

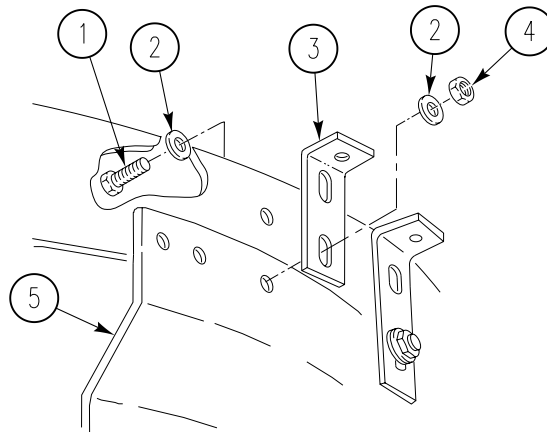
1. INSTALL INNER BLOCK (2) AND OUTER BLOCK (4) ON PANEL (3).



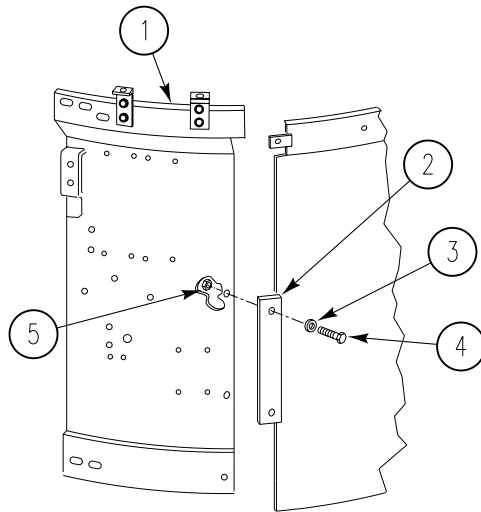
- a. Install two screws (1), inner block (2), and outer block (4) on panel (3).
- b. Adjust blocks (1), (3) on right turret shield panel (2) to no more than 1/32 inch (0.8 mm) protrusion with no recess allowed.



2. INSTALL TWO SUPPORTS (3) ON TOP OF PANEL (5).

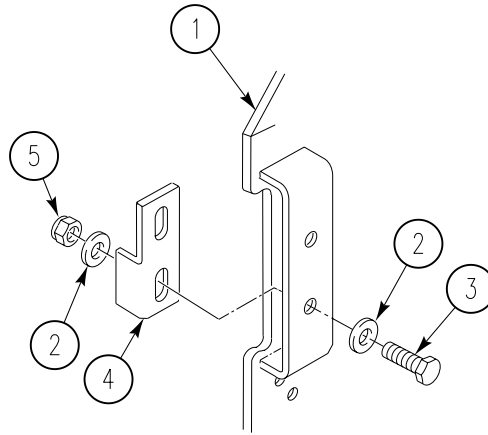


- a. Install two supports (3), washers (2), screws (1), washers (2), and new locknuts (4) on top of panel (5). Tighten screws finger tight.
3. INSTALL TWO NEW MARKERS ON PANEL (WP 0105 00).
4. INSTALL GUARD (2) ON PANEL (1).



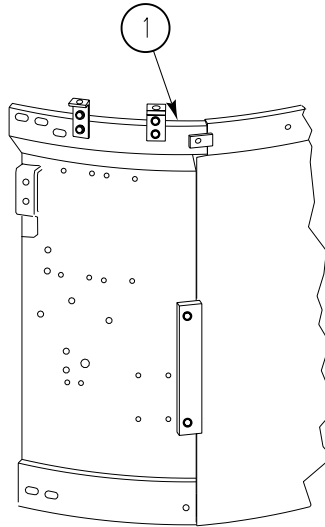
- a. Install two locknuts (5), screws (4), washers (3), and panel (1) on guard (2).

5. INSTALL LATCH STRIKE (4) ON PANEL (1).

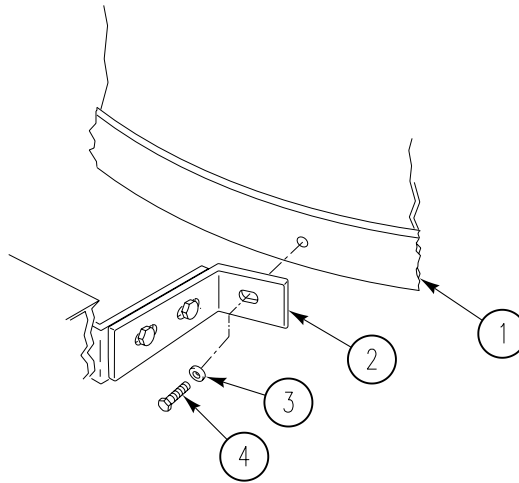


- a. Install latch strike (4), four washers (2), two screws (3), and new locknuts (5) on panel (1). Tighten screws finger tight.

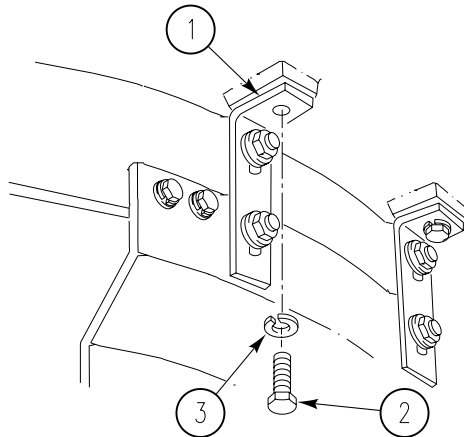
6. POSITION PANEL (1) IN VEHICLE.



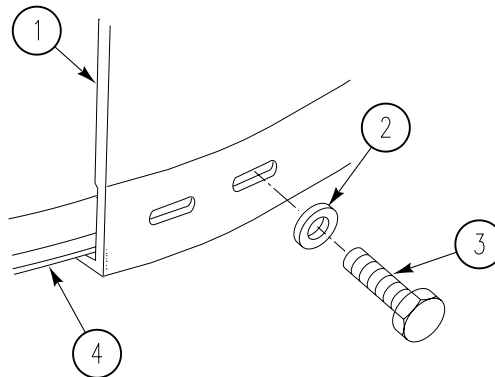
7. INSTALL WASHER (3) AND SCREW (4) ON BRACKET (2) AND PANEL (1). TIGHTEN SCREW FINGER TIGHT.



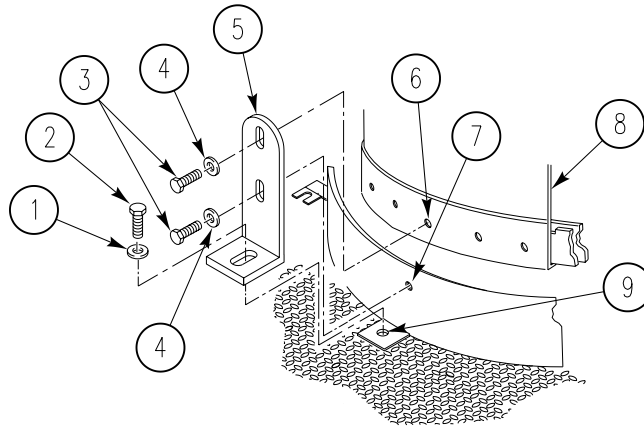
8. INSTALL TWO NEW LOCK WASHERS (2) AND SCREWS (3) ON TWO SUPPORTS (1) AND CEILING. TIGHTEN SCREWS FINGER TIGHT.



9. INSTALL TWO WASHERS (2) AND SCREWS (3) ON PANEL (1) AND LOWER TRACK (4). TIGHTEN SCREWS FINGER TIGHT.

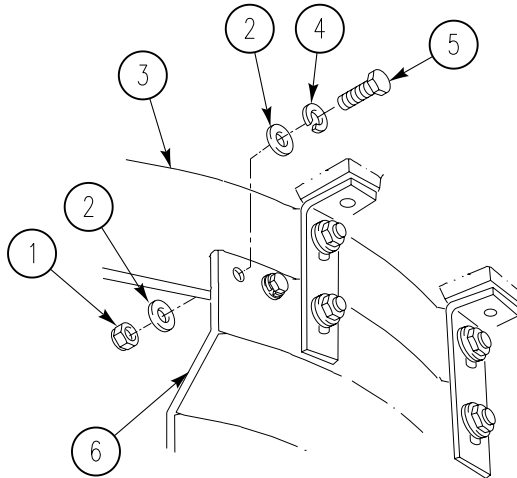


10. INSTALL SUPPORT (5) ON FLOOR (9) AND PANEL (8).

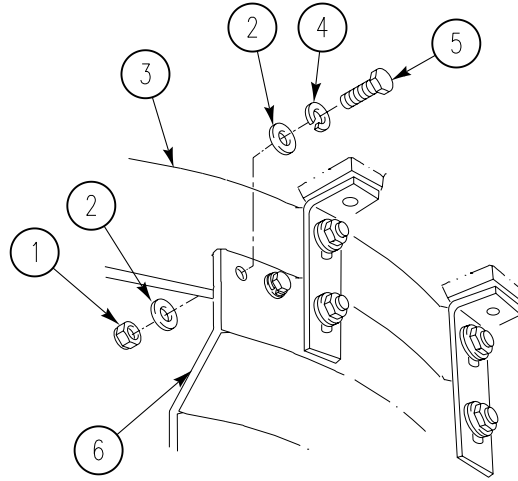


- a. Install support (5), washer (1), and screw (2) on floor (9). Tighten screw finger tight.
- b. Install two washers (4) and screws (3) on bracket (5) and retainer (7). Tighten screws finger tight.
- c. Install washer (4) and screw (5) on support (1) and panel (8). Tighten screw finger tight.

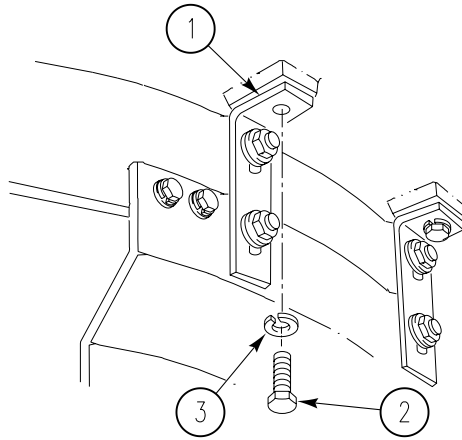
11. APPLY PRIMER AND SEALING COMPOUND TO THREADS OF SCREWS (5).



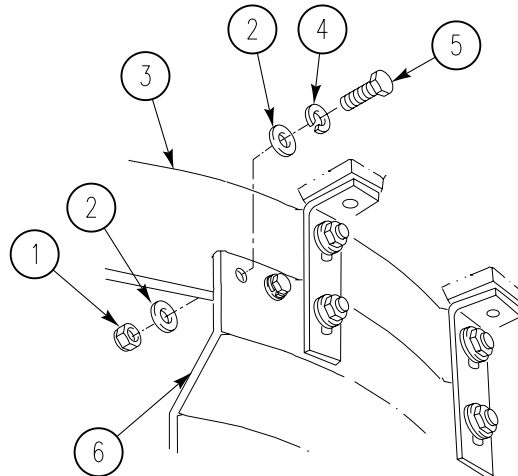
12. INSTALL TWO WASHERS (2), NEW LOCK WASHERS (4), SCREWS (5), AND NUTS (1) ON PANEL (6) AND UPPER TRACK (3). TIGHTEN SCREWS FINGER TIGHT.



13. TIGHTEN TWO SCREWS (2) ON TWO SUPPORTS (1) AND HULL CEILING.

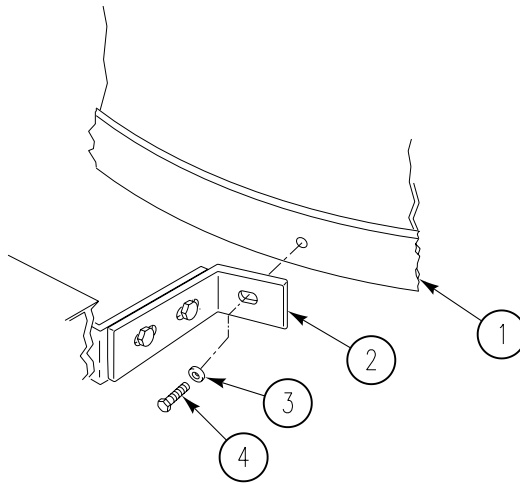


14. TIGHTEN TWO SCREWS (5) ON UPPER TRACK (3) AND PANEL (6).

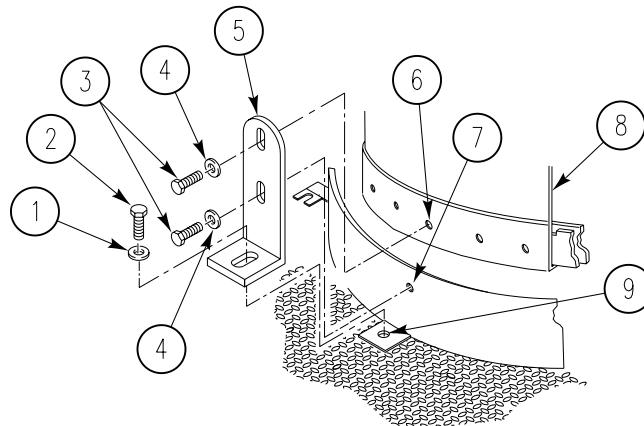




15. TIGHTEN TWO SCREWS (4) ON SUPPORTS (2) AND PANEL (1).

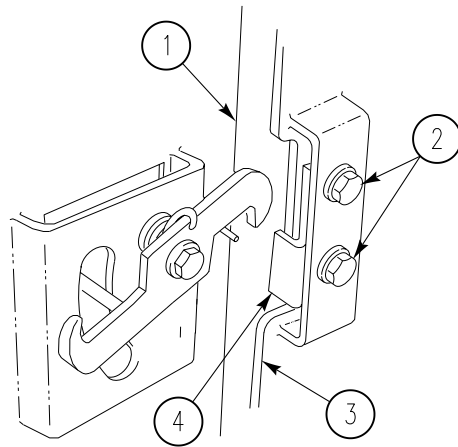


16. TIGHTEN SCREWS (2) (3) ON SUPPORT (5).



- a. Tighten screw (1) in support (5) and floor (9).
- b. Tighten top screw (2) in support (5) and panel (8).
- c. Tighten two screws (3) in support (5) and retainer (6).

17. ADJUST STRIKE (4) IN PANEL (3).



- a. Close shield door.
- b. Move latch strike (4) up or down until shield door (1) is secure when latched. Make sure that shield door releases freely.
- c. Tighten two screws (2).

18. UNSTOW RIGHT SIDE BENCH SEAT. See TM 9-2350-366-10-1.

19. UNSTOW LEFT SIDE BENCH SEAT. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE LEFT TURRET SHIELD PANEL**

**0351 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0351 00-1).  
 Installation (page 0351 00-5).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Tools and Special Tools

Unit mechanic's tool kit: automotive  
 (WP 0398 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Turret shut down (TM 9-2350-366-10-2)

Materials/Parts

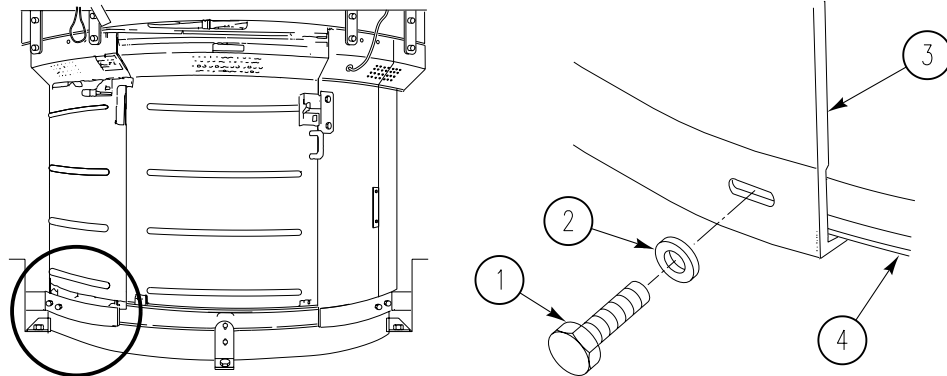
Sealing compound  
 Sealing compound primer

Personnel Required

Unit Mech 63T10  
 Helper (H)

**REMOVAL**

1. CLOSE TURRET SHIELD DOOR. See TM 9-2350-366-10-2.
2. REMOVE TWO SCREWS (1) AND WASHERS (2) FROM BOTTOM OF PANEL (3) AND SHIELD DOOR LOWER TRACK (4).

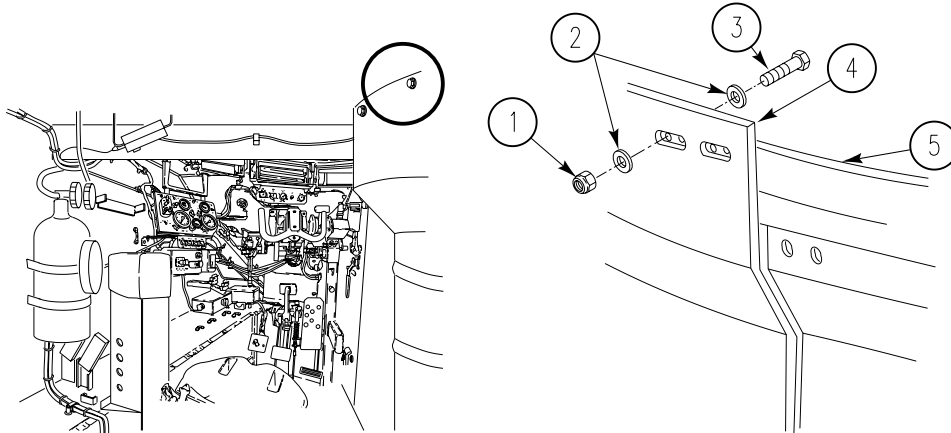


3. (H): MANUALLY TRAVERSE TURRET TO 1540 MILS. See TM 9-2350-366-10-2.

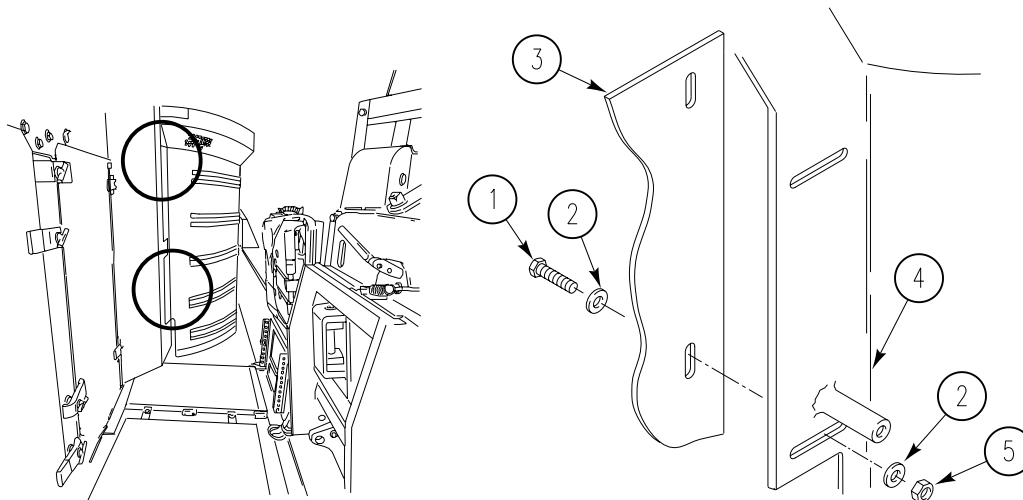
**NOTE**

**Mechanic will work outside turret and helper will work inside turret when performing Steps 4 - 8.**

4. REMOVE PANEL (4) FROM UPPER TRACK (5).

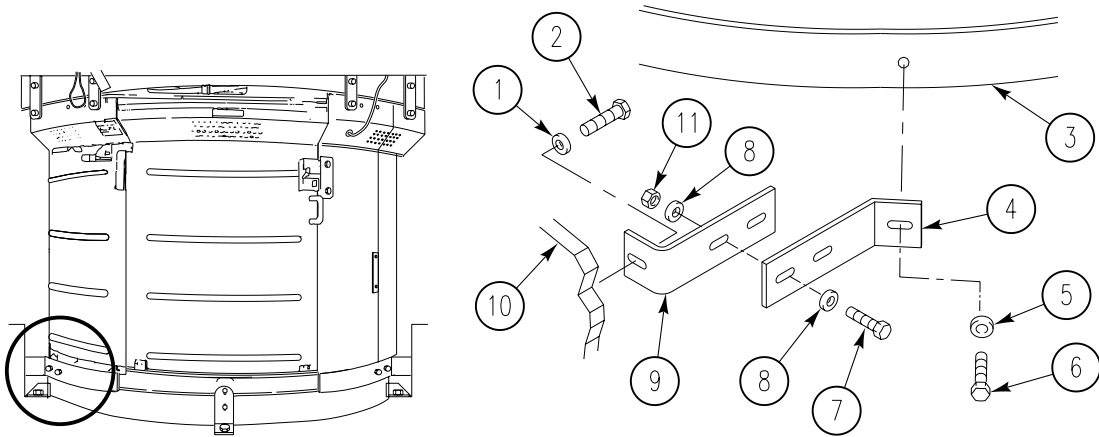


- a. (H): Manually traverse turret, as necessary, to access four screws (3) on upper track (5) and panel (4). See TM 9-2350-366-10-2.
  - b. Remove four nuts (1), screws (3), and eight washers (2) from panel (4) and upper track (5).
5. (H): MANUALLY TRAVERSE TURRET TO 2500 MILS. See TM 9-2350-366-10-2.
6. REMOVE FOUR SCREWS (1), EIGHT WASHERS (2), AND FOUR LOCKNUTS (5) FROM TWO SUPPORTS (3) AND PANEL (4). HAVE HELPER ASSIST. DISCARD LOCKNUTS.



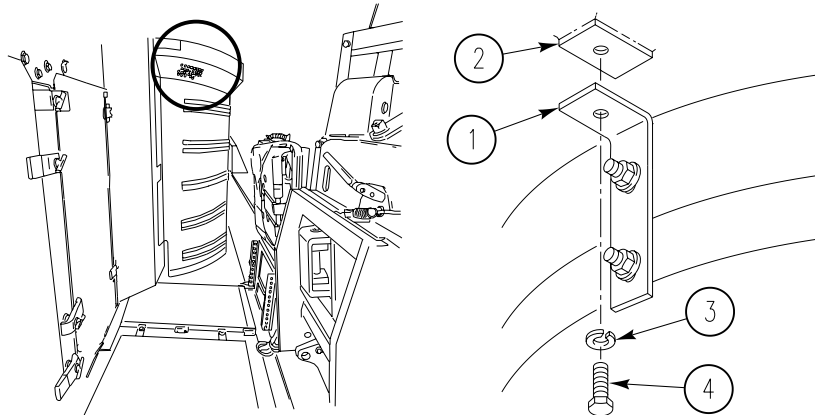
7. (H): MANUALLY TRAVERSE TURRET TO 6400 MILS. See TM 9-2350-366-10-2.

8. REMOVE SUPPORT (4) FROM PANEL (3).



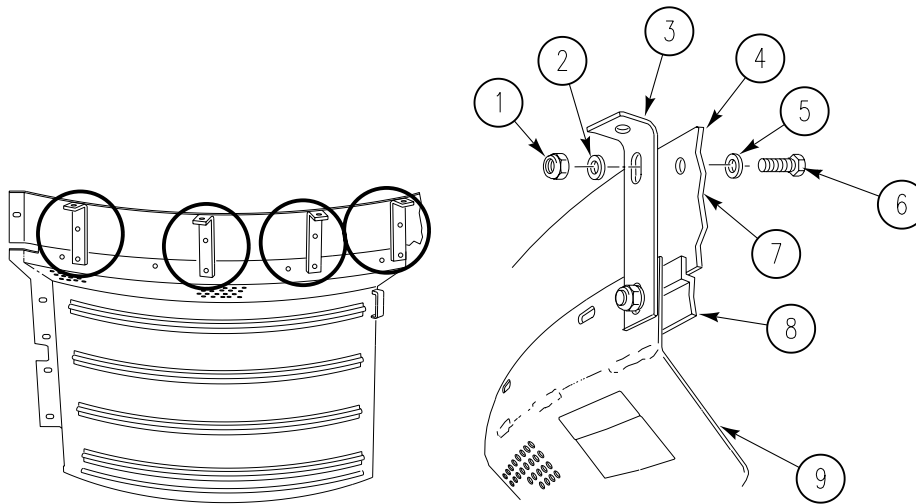
- a. Remove top screw (6) and washer (5) from support (4) and panel (3).
- b. Remove two screws (7) and washers (8) from supports (4)(9). Discard lock washers.
- c. Remove screws (2), washers (1), and support (9) from door (10).

9. REMOVE FOUR SCREWS (4) AND LOCK WASHERS (3) FROM FOUR SUPPORTS (1) AND HULL CEILING (2). HAVE HELPER ASSIST. DISCARD LOCK WASHERS.



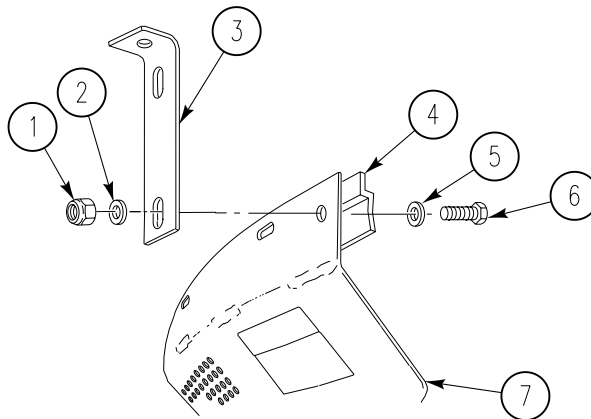
10. REMOVE PANEL FROM VEHICLE AND PLACE ON WORK SURFACE. HAVE HELPER ASSIST.

11. REMOVE SHIELD ENCLOSURE (4) FROM FOUR SUPPORTS (3).



- a. Remove four locknuts (1), washers (2), washers (5), and screws (6) from supports (3) and shield enclosure (4). Discard locknuts.

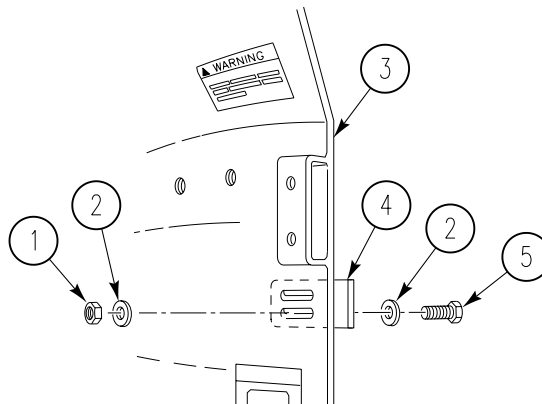
12. REMOVE FOUR SUPPORTS (3) FROM PANEL (9).



- a. Remove four locknuts (1), screws (6), eight washers (2)(5), and four supports (3) from panel (7). Discard locknuts.

13. REMOVE TURRET SHIELD LATCH STRIKE (WP 0232 00).

14. REMOVE ANGLE BRACKET (4) FROM PANEL (3).



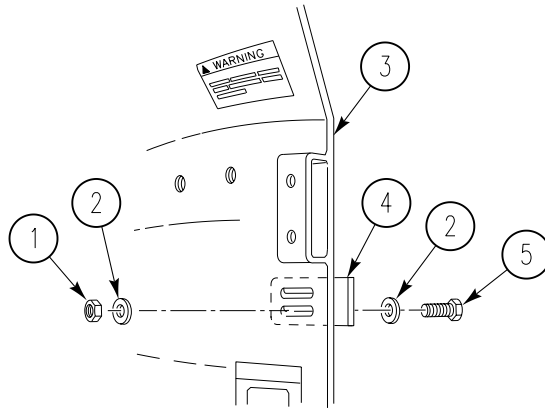
- a. Remove two screws (5), four washers (2), angle bracket (4), and locknuts (1) from panel (3). Discard locknuts.

**INSTALLATION**

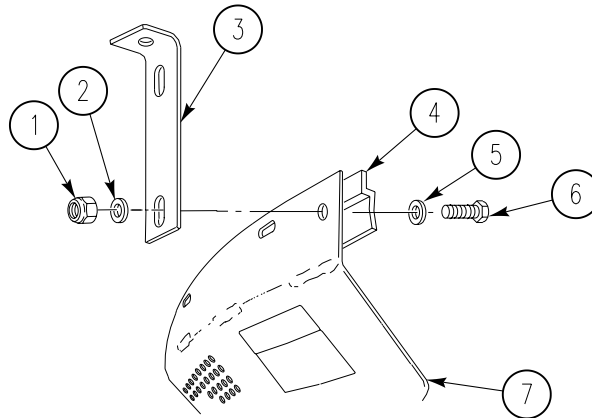
**NOTE**

Use washers as shims as required to ensure good contact between bumper and bracket when door is locked open.

1. INSTALL ANGLE BRACKET (4) ON PANEL (3).

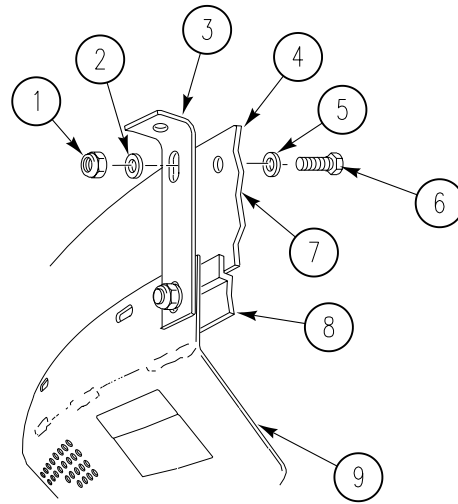


- a. Install two screws (1), washers (2), angle bracket (4), and new locknuts (1) on panel (3).
2. INSTALL TURRET SHIELD LATCH STRIKE (WP 0232 00).
3. INSTALL FOUR SUPPORTS (3) ON PANEL (7).

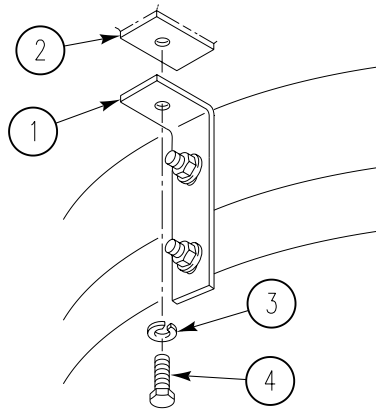


- a. Install four supports (3), eight washers (2)(5), four screws (6), and new locknuts (1) on panel (7). Tighten screws finger tight.

4. INSTALL SHIELD ENCLOSURE (4) ON FOUR SUPPORTS (3).



- a. Install shield enclosure (4), four screws (6), eight washers (2)(5), four locknuts (1) on supports (3).
5. INSTALL PANEL AROUND TURRET. HAVE HELPER ASSIST.
6. INSTALL FOUR SUPPORTS (1), SCREWS (4), AND LOCK WASHERS (3) ON CEILING (2). HAVE HELPER ASSIST.



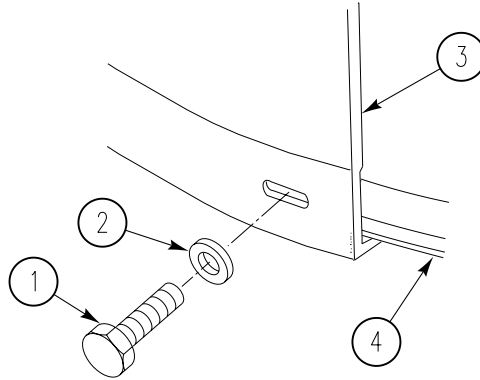
- a. Install panel, four new lock washers (3), and screws (4) on ceiling (2). Tighten screws finger tight. Have helper assist.



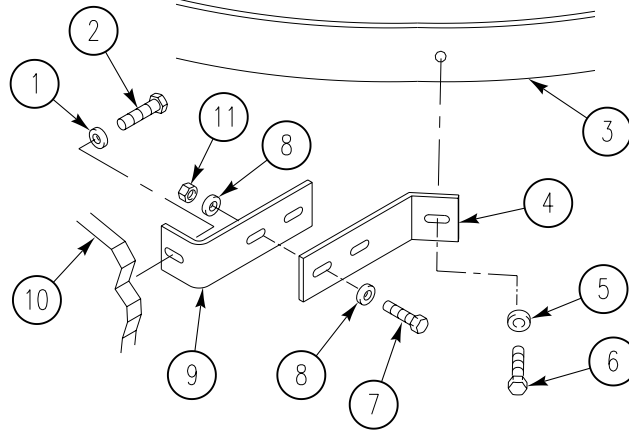
REPLACE LEFT TURRET SHIELD PANEL — Continued

0351 00

7. INSTALL TWO WASHERS (2) AND SCREWS (1) ON BOTTOM OF PANEL (3) AND LOWER TRACK (4). TIGHTEN SCREWS FINGER TIGHT.



8. INSTALL SUPPORT (4) ON PANEL (3).

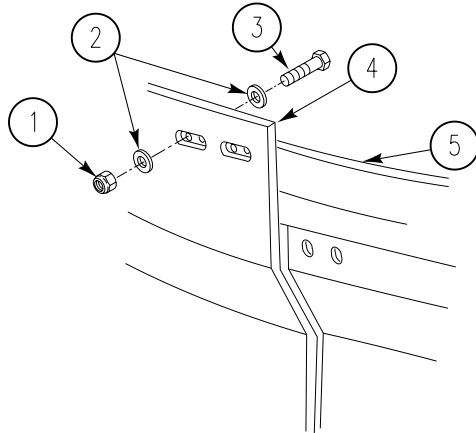


- a. Install support (9), washers (1), and screw (2) on floor (10). Tighten screws finger tight.
- b. Install support (4), four washers (8), two screws (7) on support (9). Tighten screws finger tight.
- c. Install screw (6) and washer (5) on support (4) and panel (3). Tighten screws finger tight.

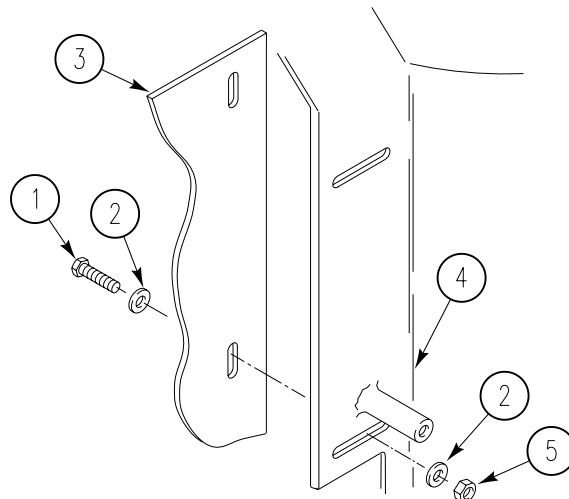
**NOTE**

**Mechanic will work outside turret and helper will work inside turret when performing Steps 9 - 10.**

9. INSTALL PANEL (4) ON UPPER TRACK (5).

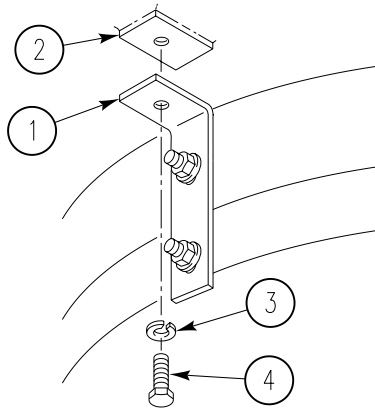


- a. (H): Manually traverse turret as necessary to install four screws (3). See TM 9-2350-366-10-2.
  - b. Apply primer and sealing compound to threads of screws (3).
  - c. Install four screws (3), eight washers (2), and four nuts (1) on panel (4) and upper track (5). Tighten screws finger tight.
10. INSTALL PANEL (4) ON TWO SUPPORTS (3).

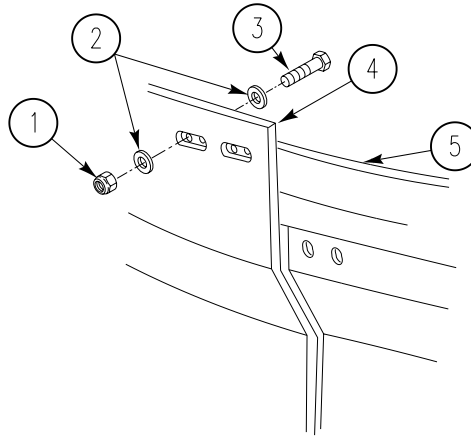


- a. Install eight washers (2), four screws (1), and new locknuts (5) on two angle brackets (3) and panel (4). Have helper assist.

11. TIGHTEN FOUR SCREWS (4) ON FOUR SUPPORTS (1) AND HULL CEILING (2).

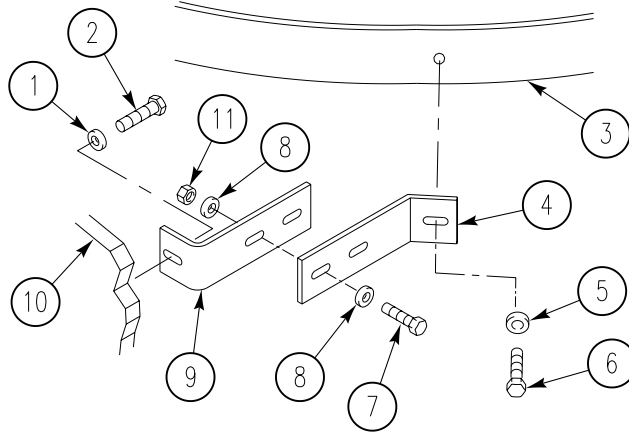


12. TIGHTEN FOUR SCREWS (3) IN UPPER TRACK (5) AND PANEL (4).

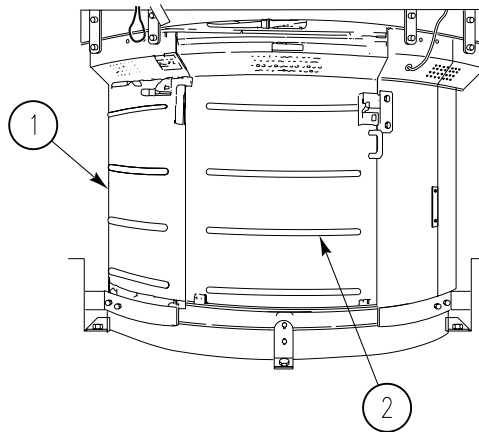


- a. (H): Manually traverse turret as necessary to access four screws (3). See TM 9-2350-366-10-2.
  - b. Tighten four screws (3). Have helper assist.
13. (H): MANUALLY TRAVERSE TURRET TO 6400 MILS. See TM 9-2350-366-10-2.
14. TIGHTEN FOUR LOCKNUTS (3) IN FOUR ANGLE BRACKETS (2) AND PANEL (4).

15. TIGHTEN SCREWS IN SUPPORTS (4)(9).



- a. Tighten screw (2) in support (9) and floor (10).
  - b. Tighten four screws (7) in support (4).
  - c. Tighten screw (6) in support (4).
16. CHECK THAT SHIELD DOOR (2) MOVES FREELY. IF SHIELD DOOR BINDS, LOOSEN SCREWS AND MANUALLY ADJUST PANEL (1) UNTIL SHIELD DOOR MOVES FREELY. TIGHTEN SCREWS. HAVE HELPER ASSIST.



17. INSTALL NEW MARKERS ON SHIELD PANEL (WP 0105 00).

**END OF TASK**

CHAPTER 33

UNIT MAINTENANCE INSTRUCTIONS  
FOR SHOCK ABSORBERS

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**WORK PACKAGE INDEX**

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| <u>Title</u>                      | <u>Sequence No.</u> |
|-----------------------------------|---------------------|
| REPLACE SHOCK ABSORBER.....       | .0352 00            |
| REPLACE SHOCK ABSORBER MOUNT..... | .0353 00            |
| REPLACE SHOCK ABSORBER PIN.....   | .0354 00            |



**REPLACE SHOCK ABSORBER**

**0352 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0352 00-1).  
 Installation (page 0352 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Shock absorber tool (WP 0397 00, Item 66)  
 Torque wrench (WP 0397 00, Item 83)

References

TM 9-2350-366-10-1

Materials/Parts

Wiping rag (WP 0399 00, Item 64)  
 Cotter pin (2)  
 Outer seal  
 Inner seal

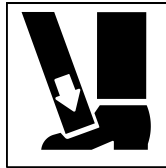
Equipment Condition

Vehicle on level surface  
 Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Road wheel for respective shock absorber removed  
 (WP 0291 00).

**REMOVAL**

1. REMOVE BLOCKS USED TO KEEP CARRIER FROM MOVING. See TM 9-2350-366-10-1.

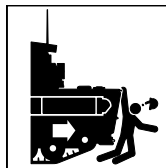
**WARNING**



**If road wheel lifter slips while lowering road arm, it could injure you. Stand clear before you lower road arm.**

2. START ENGINE. See TM 9-2350-366-10-1. PLACE RANGE SELECTOR IN RANGE 1. SLOWLY DRIVE CARRIER FORWARD OFF LIFTER. REMOVE LIFTER.

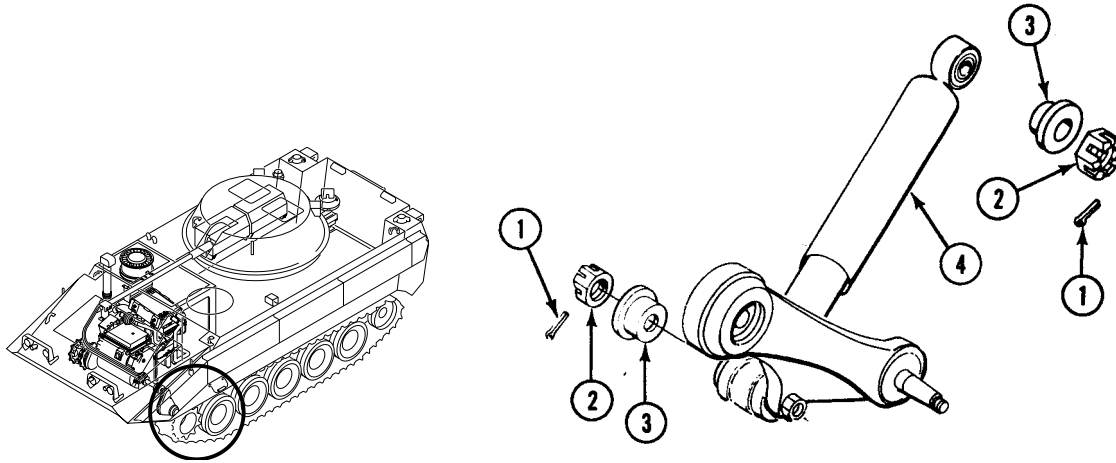
**WARNING**



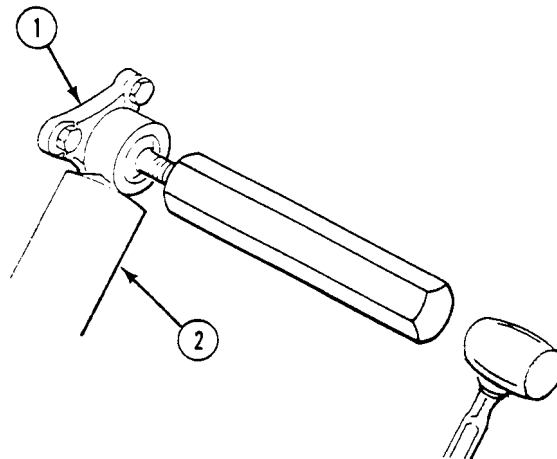
**Failure to set the parking brake and block the road wheels can allow the vehicle to move and could result in injury or death. Always set the parking brake and block road wheels before working on the vehicle.**

3. BLOCK CARRIER. See TM 9-2350-366-10-1.

4. REMOVE TWO COTTER PINS (1), NUTS (2), AND SHOULDERED WASHERS (3) FROM SHOCK ABSORBER (4). DISCARD COTTER PINS.



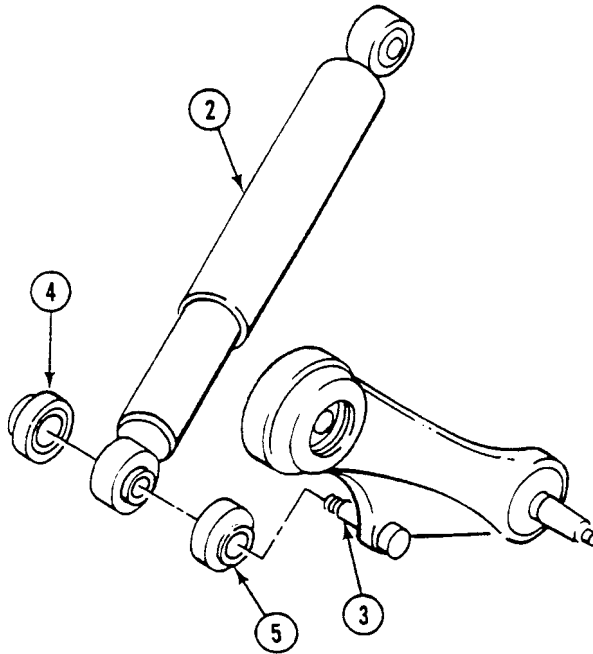
5. POSITION SHOCK ABSORBER TOOL ON HULL MOUNTING BRACKET (1). HIT TOOL WITH HEAVY HAMMER TO LOOSEN UPPER END OF SHOCK ABSORBER (2).



6. POSITION SHOCK ABSORBER TOOL ON ROAD WHEEL SUPPORT ARM PIN (3). HIT TOOL WITH HEAVY HAMMER TO LOOSEN LOWER END OF SHOCK ABSORBER (2).



7. REMOVE SHOCK ABSORBER (2) AND SEALS (4) AND (5) FROM SUPPORT ARM PIN (3). DISCARD SEALS.



## INSTALLATION

1. INSTALL NEW INNER SEAL (5) ON ROAD WHEEL SUPPORT ARM PIN (3).

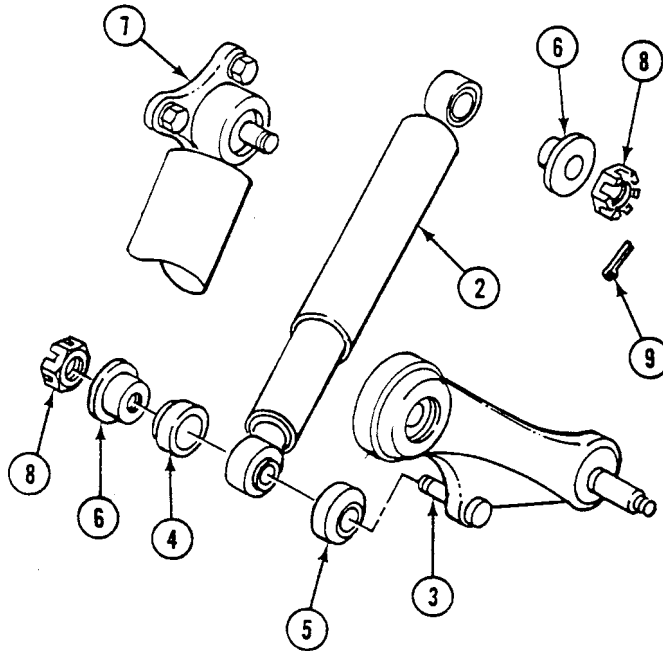
## NOTE

**Exercise new shock absorber to the fully extended position and move shock absorber back and forth several times until resistance can be felt throughout the entire length of the stroke.**

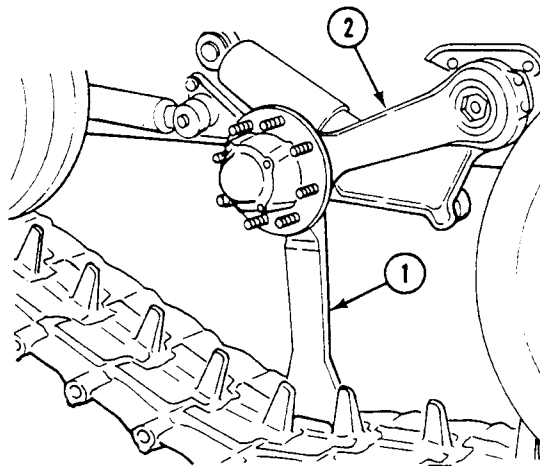
**Make sure shock absorber is installed with large end of bearings installed first.**

2. INSTALL SHOCK ABSORBER (2), NEW OUTER SEAL (4), AND SHOULDERED WASHER (6) ON SUPPORT ARM PIN (3).
3. INSTALL SHOCK ABSORBER (2) AND SHOULDERED WASHER (6) ON HULL BRACKET (7).
4. SECURE SHOCK ABSORBER (2) WITH TWO NUTS (8).
5. TIGHTEN TWO NUTS (8) TO 60-80 LB-FT (81-108 N.M.) TORQUE.

6. SECURE TWO NUTS (8) WITH TWO NEW COTTER PINS (9). IF HOLE THROUGH MOUNT AND NOTCHES IN NUT (8) DO NOT ALIGN, TIGHTEN NUT ENOUGH TO MAKE HOLES ALIGN, THEN INSERT NEW COTTER PINS (9).



7. PLACE LIFTER (1) UNDER ROAD WHEEL ARM (2). KEEP LOWER TIPS OF LIFTER IN TRACK LINK JUST REARWARD OF SPACE OF ROADWHEEL TO BE INSTALLED.



8. INSTALL ROAD WHEEL (WP 0291 00).
9. REMOVE BLOCKS USED TO KEEP CARRIER FROM MOVING. See TM 9-2350-366-10-1.
10. ROAD TEST CARRIER TO CHECK THAT SHOCK ABSORBER IS INSTALLED RIGHT.

**END OF TASK**

---

## REPLACE SHOCK ABSORBER MOUNT

---

0353 00

### THIS WORK PACKAGE COVERS:

Removal (page 0353 00-1).  
 Installation (page 0353 00-2).

---

### INITIAL SETUP:

#### Maintenance Level

Unit

#### Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Torque wrench (WP 0397 00, Item 83)

#### Personnel Required

Unit Mechanic 63T10

#### References

TM 9-2350-366-10-1

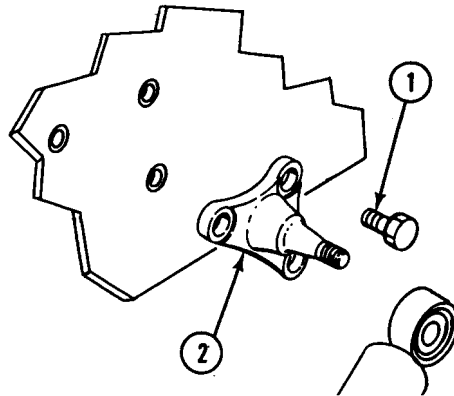
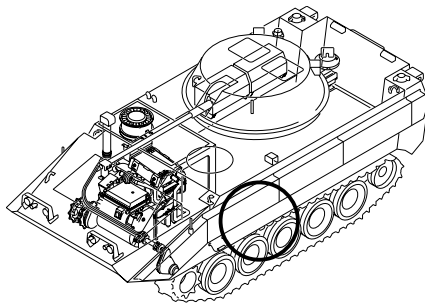
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#### Equipment Condition

Vehicle on level surface  
 Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Respective road wheel removed (WP 0291 00)  
 Respective shock absorber removed (WP 0352 00)

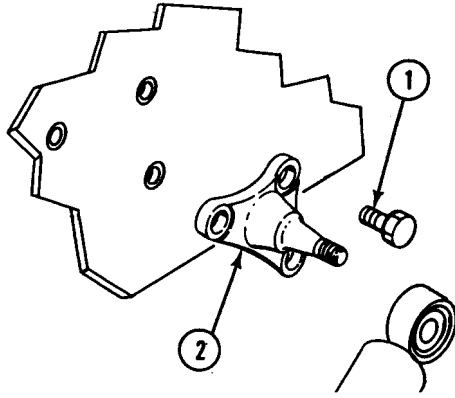
### REMOVAL

1. REMOVE THREE SCREWS (1) FROM SHOCK ABSORBER MOUNT (2).
2. REMOVE MOUNT (2) FROM HULL.



**INSTALLATION**

1. INSTALL MOUNT (2) ON HULL.
2. INSTALL THREE SCREWS (1). TIGHTEN SCREWS TO 130-140 LB-FT (176-190 N.M) TORQUE.



3. INSTALL SHOCK ABSORBER (WP 0352 00).
4. INSTALL ROAD WHEEL (WP 0291 00).

**END OF TASK**

**REPLACE SHOCK ABSORBER PIN**

**0354 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0354 00-1).  
 Installation (page 0354 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Socket wrench set (WP 0397 00, Item 71)  
 Torque wrench (WP 0397 00, Item 84)  
 Wood blocks

Equipment Condition

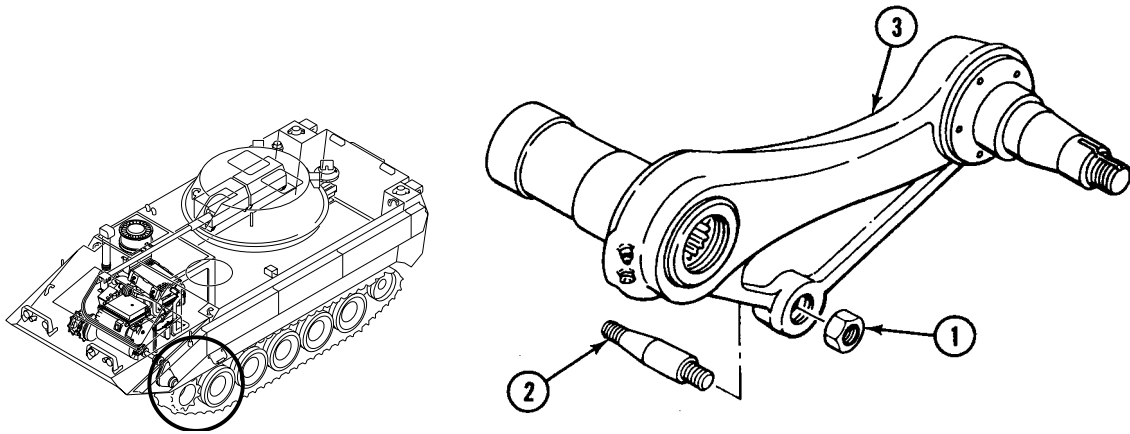
Respective road wheel support arm removed  
 (WP 0289 00)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. REMOVE NUT (1) FROM PIN (2).
2. PLACE ROAD WHEEL SUPPORT ARM (3) ON WOOD BLOCKS. DRIVE OUT PIN (2) WITH A WOOD BLOCK AND HAMMER.



**INSTALLATION**

1. INSTALL PIN (2) IN ROAD WHEEL SUPPORT ARM (3). SECURE WITH NUT (1). TIGHTEN NUT TO 210-230 LB-FT (285-312 N.M).
2. INSTALL ROAD WHEEL SUPPORT ARM (WP 0289 00).

**END OF TASK**



CHAPTER 34

UNIT MAINTENANCE INSTRUCTIONS  
FOR BILGE PUMPS

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>                               | <u>Sequence No.</u> |
|--|---------------------|
| REPLACE FRONT BILGE PUMP PIPES.....        | 0355 00             |
| REPLACE FRONT BILGE PUMP AND STRAINER..... | 0356 00             |
| REPLACE FRONT BILGE VALVE.....             | 0357 00             |





**REPLACE FRONT BILGE PUMP PIPES**

**0355 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0355 00-1).
- Installation (page 0355 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Front power plant access doors removed (TM 9-2350-366-10-1)
- Driver's power plant access panel removed (TM 9-2350-366-10-1)
- Hull front access cover removed (WP 0315 00)
- Front bilge pump strainer removed (WP 0356 00)

Materials/Parts

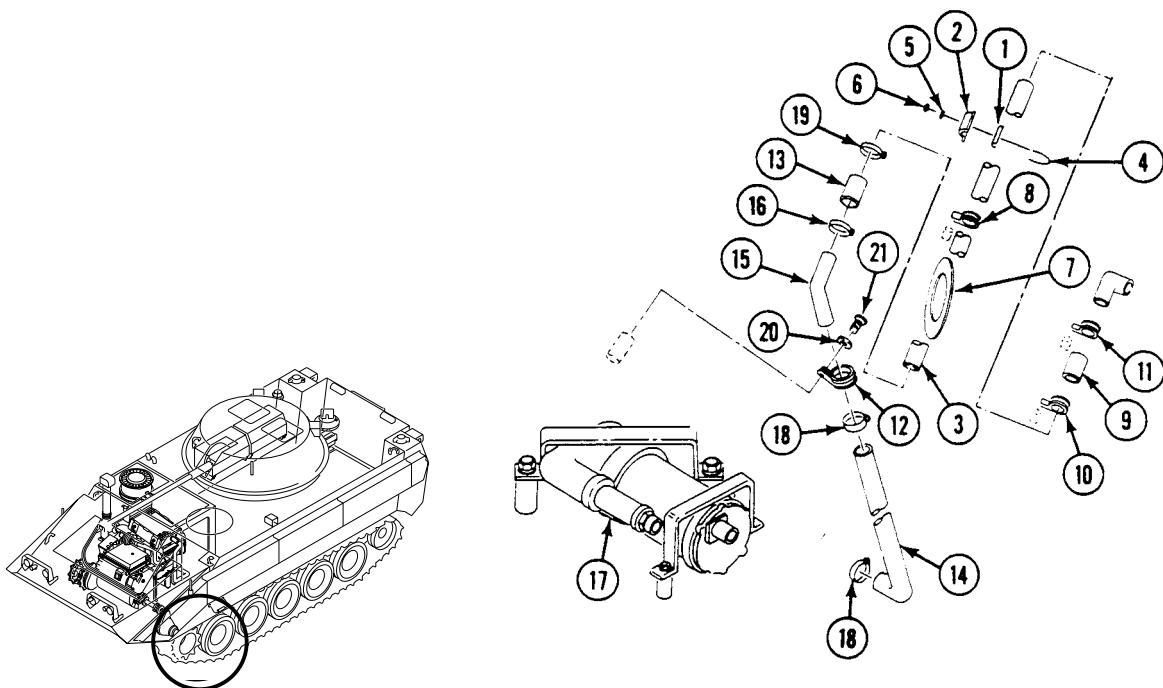
- Gasket
- Grommet
- Locknut (4)
- Lock washer (2)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. REMOVE TWO SCREWS (21), LOCK WASHERS (20), AND CLAMPS (12) FROM TWO BULKHEAD WELDNUTS. DISCARD LOCK WASHERS.
2. LOOSEN FOUR CLAMPS (18). REMOVE LOWER PIPE (15) FROM UPPER PIPE (13) AND BILGE PUMP (17). REMOVE CLAMP (8), CLAMPS (19), AND TWO HOSES (13) FROM PIPE (15).
3. LOOSEN TWO CLAMPS (10)(11). SLIDE PIPE (3) FROM DISCHARGE OUTLET AND REMOVE PIPE FROM DRIVER'S COMPARTMENT. REMOVE CLAMP (8), CLAMPS (10)(11), AND HOSE (9) FROM PIPE.



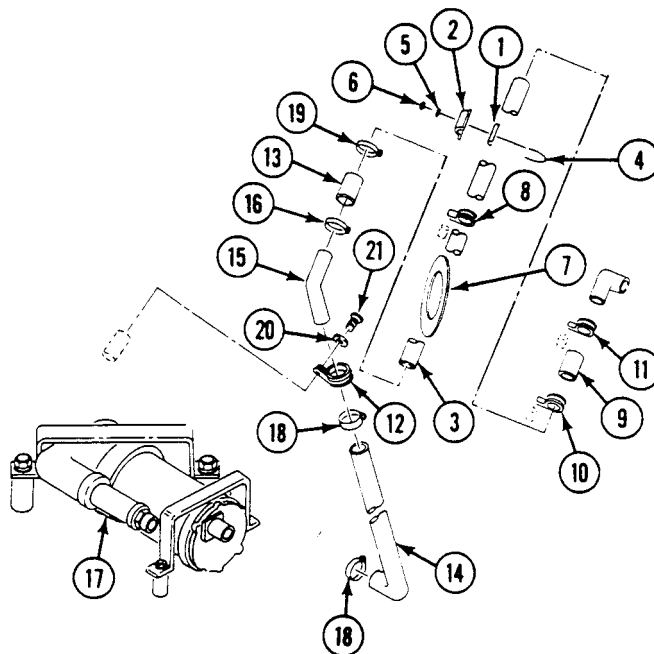
4. REMOVE GROMMET (7) FROM DRIVER'S COMPARTMENT BULKHEAD. DISCARD GROMMET.
5. REMOVE FOUR LOCKNUTS (6), WASHERS (5), TWO U-BOLTS (4), SIGHT GLASS (2), AND GASKET (1) FROM PIPE (3). DISCARD GASKET AND LOCKNUTS.

## INSTALLATION

### NOTE

**Do not overtighten nuts. Sight glass will break.**

1. REMOVE BACKING FROM NEW GASKET (1). INSTALL GASKET, STICKY SIDE DOWN, AND SIGHT GLASS (2) ON UPPER PIPE (3). SECURE WITH TWO U-BOLTS (4), FOUR WASHERS (5), AND NEW LOCKNUTS (6). TIGHTEN NUTS UNTIL GASKET IS COMPRESSED.
2. INSTALL NEW GROMMET (7) IN DRIVER'S COMPARTMENT BULKHEAD.
3. INSTALL CLAMP (8) AND HOSE (9) ON UPPER PIPE (3). SECURE HOSE TO PIPE WITH CLAMP (10).
4. SLIDE PIPE (3) THROUGH GROMMET (7) AND INSTALL HOSE (9) ON DISCHARGE OUTLET. SECURE WITH CLAMP (11).
5. INSTALL CLAMP (12) AND TWO HOSES (13) AND (14) ON LOWER PIPE (15). SECURE HOSES TO PIPE WITH TWO CLAMPS (16).
6. INSTALL HOSE (14) ON BILGE PUMP (17). SECURE WITH CLAMP (18).
7. INSTALL HOSE (13) ON UPPER PIPE (3). SECURE WITH CLAMP (19).
8. ALIGN TWO CLAMPS (8) AND (12) WITH TWO BULKHEAD WELDNUTS. SECURE WITH TWO NEW LOCK WASHERS (20) AND SCREWS (21).



9. INSTALL FRONT BILGE PUMP STRAINER (WP 0356 00).

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**REPLACE FRONT BILGE PUMP PIPES — Continued**

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**0355 00**

10. TURN MASTER SWITCH ON. See TM 9-2350-366-10-1. OPERATE BILGE PUMP AND CHECK FOR LEAKS. TURN ALL SWITCHES OFF. See TM 9-2350-366-10-1.
11. INSTALL HULL FRONT ACCESS COVER (WP 0315 00).
12. INSTALL DRIVER'S POWER PLANT ACCESS PANEL. See TM 9-2350-366-10-1.
13. INSTALL FRONT POWER PLANT ACCESS DOORS. See TM 9-2350-366-10-1.

**END OF TASK**



**REPLACE FRONT BILGE PUMP AND STRAINER**

**0356 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0356 00-1).
- Installation (page 0356 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Adjustable wrench (WP 0397 00, Item 73)
- Pipe wrench (WP 0397 00, Item 75)

References

TM 9-2350-366-10-1

Materials/Parts

- Adhesive (WP 0399 00, Item 4)
- Cushion (2)
- Key washer (3)
- Lock washer (5)
- Star washer (2)

Equipment Condition

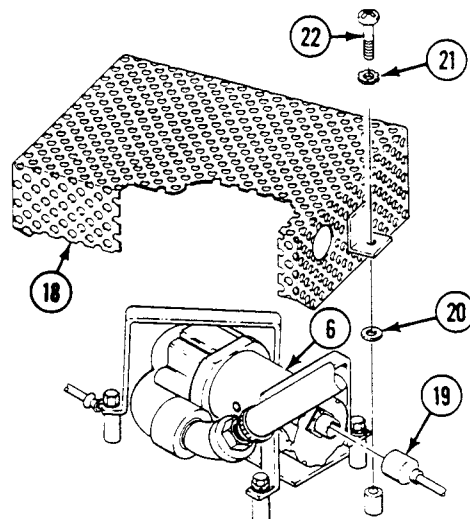
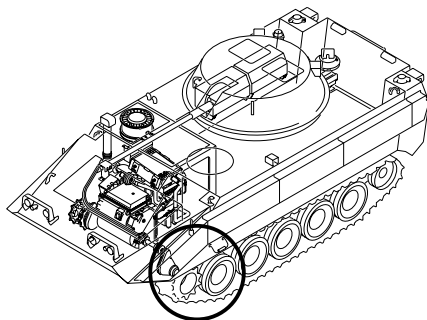
- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Hull front access cover removed (WP 0315 00)
- Battery ground strap disconnected (WP 0237 00).

**REMOVAL**

**NOTE**

**If only strainer is to be replaced, see Removal Step 1 and Step 2, and Installation Step 9 and Step 10.**

1. DISCONNECT LEAD (19) FROM BILGE PUMP (6).
2. REMOVE TWO SCREWS (22), STAR WASHERS (21), WASHERS (20), AND STRAINER (18) FROM HULL WELDNUTS. DISCARD STAR WASHERS.

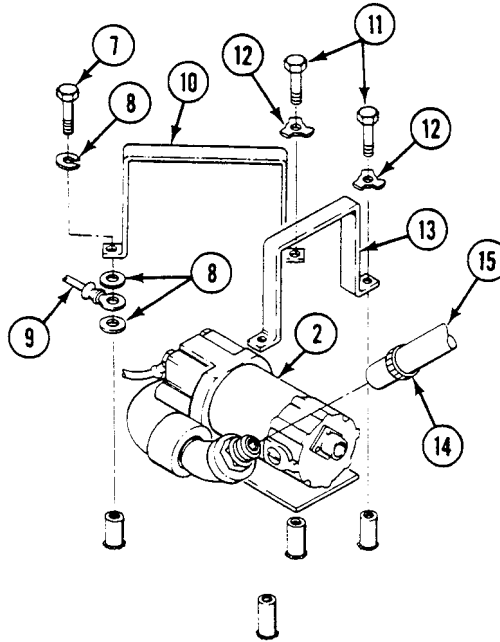


3. REMOVE SCREW (7), THREE LOCK WASHERS (8), AND GROUND LEAD (9) FROM STRAP (10). DISCARD LOCK WASHERS.

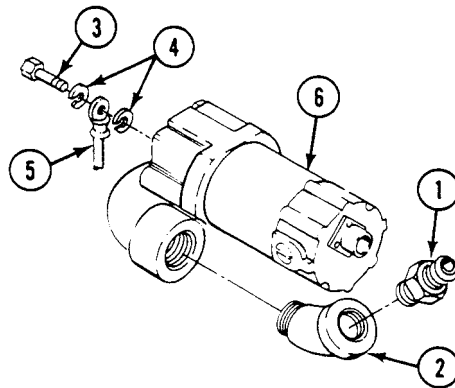
REPLACE FRONT BILGE PUMP AND STRAINER — Continued

0356 00

4. REMOVE THREE SCREWS (11), KEY WASHERS (12), AND TWO STRAPS (10) AND (13). DISCARD KEY WASHERS.
5. LOOSEN CLAMP (14). REMOVE HOSE (15) FROM PUMP (2).

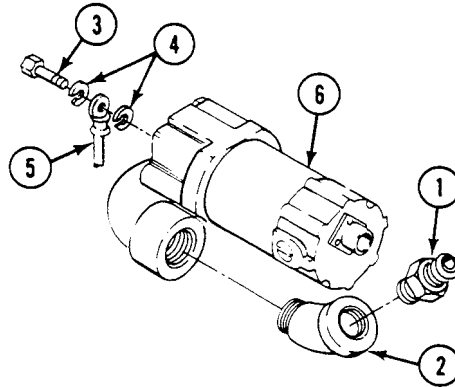
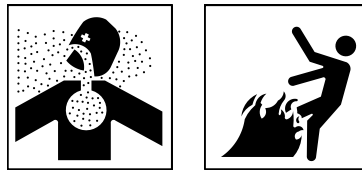


6. REMOVE ADAPTER (1), ELBOW (2), SCREW (3), TWO LOCK WASHERS (4), AND GROUND LEAD (5) FROM PUMP (6). USE ADJUSTABLE WRENCH AND PIPE WRENCH. DISCARD LOCK WASHERS. REINSTALL SCREW IN PUMP.



**INSTALLATION**

1. REMOVE SCREW (3) AND WASHER FROM NEW PUMP (6).
2. INSTALL GROUND LEAD (5) ON PUMP (6). SECURE WITH TWO NEW LOCK WASHERS (4) AND SCREW (3).
3. INSTALL ELBOW (2) AND ADAPTER (1) ON PUMP (6). USE PIPE WRENCH AND ADJUSTABLE WRENCH.

**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.

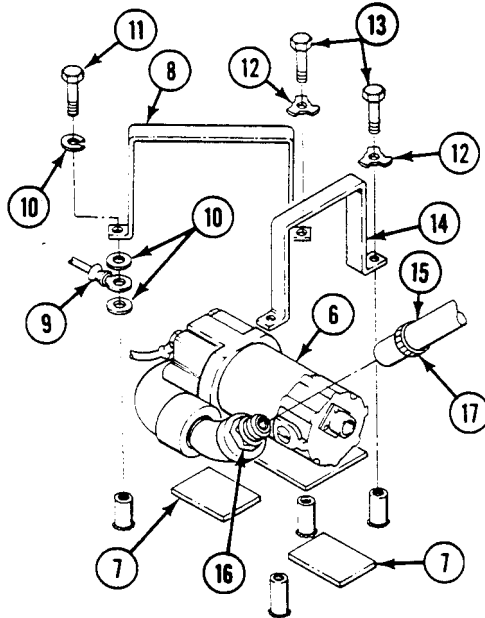
4. CEMENT TWO NEW CUSHIONS (7) ON BOTTOM OF PUMP (6) WITH ADHESIVE.
5. INSTALL PUMP (6) IN CARRIER.

**NOTE**

**Do not tighten strap screws until all four are installed.**

6. INSTALL STRAP (8) AND GROUND LEAD (9) ON HULL WELDNUTS. SECURE WITH THREE NEW LOCK WASHERS (10), SCREW (11), NEW KEY WASHER (12) AND SCREW (13). BEND TABS ON KEY WASHER.
7. INSTALL STRAP (14) ON HULL WELDNUTS. SECURE WITH TWO SCREWS (13) AND NEW KEY WASHERS (12). BEND TABS ON KEY WASHERS.

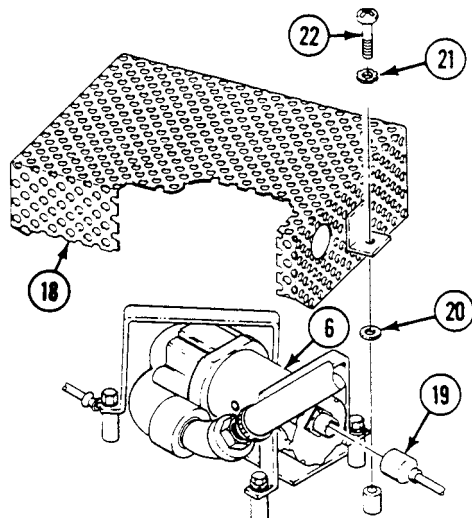
8. SLIDE HOSE (15) ON ADAPTER (16). SECURE WITH CLAMP (17).



9. INSTALL STRAINER (18) ON HULL WELDNUTS.

10. CONNECT LEAD (19) TO BILGE PUMP (6).

11. SECURE STRAINER (18) TO HULL WELDNUTS WITH TWO WASHERS (20), NEW STAR WASHERS (21), AND SCREWS (22).



12. CONNECT BATTERY GROUND STRAP (WP 0237 00).

13. INSTALL HULL FRONT ACCESS COVER (WP 0315 00).

**END OF TASK**



**REPLACE FRONT BILGE VALVE**

**0357 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0357 00-1).  
 Installation (page 0357 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Personnel Required

Unit Mechanic 63T10

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Driver's rear floor plate removed (WP 0342 00)  
 Personnel heater floor duct removed (WP 0369 00)  
 Left front floor plate removed (WP 0343 00)  
 Rear doors opened (TM 9-2350-366-10-1)  
 Turret rotated to 3200 mils (TM 9-2350-366-10-2)

Materials/Parts

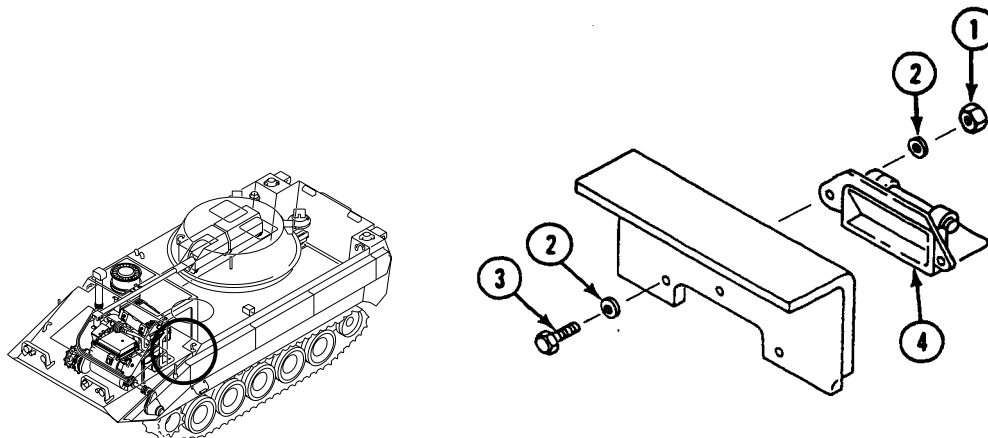
Locknut (3)

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

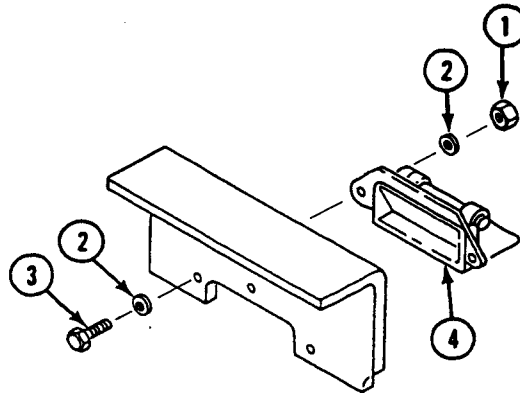
**REMOVAL**

1. REMOVE THREE LOCKNUTS (1), SIX WASHERS (2), AND THREE SCREWS (3) FROM HULL CROSS BEAM. DISCARD LOCKNUTS.
2. REMOVE VALVE (4) FROM BEAM.



**INSTALLATION**

1. INSTALL VALVE (4) ON HULL CROSS BEAM.
2. SECURE WITH THREE SCREWS (3), SIX WASHERS (2), AND THREE NEW LOCKNUTS (1).



3. CHECK FOR FREEDOM OF MOVEMENT OF VALVE AFTER INSTALLATION.
4. INSTALL LEFT FRONT FLOOR PLATE (WP 0343 00).
5. INSTALL PERSONNEL HEATER FLOOR DUCT (WP 0369 00).
6. INSTALL DRIVER'S REAR FLOOR PLATE (WP 0342 00).
7. ROTATE TURRET TO 6400 MILS OR AS NEEDED. See TM 9-2350-366-10-2.
8. CLOSE AND LOCK REAR DOORS. See TM 9-2350-366-10-1.
9. TURN MASTER SWITCH OFF. See TM 9-2350-366-10-1.

**END OF TASK**

CHAPTER 35

UNIT MAINTENANCE INSTRUCTIONS  
FOR SEATS

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**WORK PACKAGE INDEX**

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| <u>Title</u>   | <u>Sequence No.</u> |
|--|---------------------|
| REPLACE PERSONNEL SEATS, BACKRESTS, CUSHIONS, AND BELTS..... | 0358 00             |
| REPLACE DRIVER'S SEAT ASSEMBLY.....                          | 0359 00             |
| REPAIR DRIVER'S SEAT.....                                    | 0360 00             |
| REPLACE DRIVER'S SEAT BACK ASSEMBLY.....                     | 0361 00             |
| REPAIR DRIVER'S SEAT BACK ASSEMBLY.....                      | 0362 00             |
| REPLACE DRIVER'S SEAT IMPACT ABSORBER.....                   | 0363 00             |
| REPLACE DRIVER'S SEAT POST ASSEMBLY.....                     | 0364 00             |
| REPAIR DRIVER'S SEAT POST ASSEMBLY.....                      | 0365 00             |
| REPLACE DRIVER'S FOOTREST.....                               | 0366 00             |
| REPLACE OILCAN BRACKET.....                                  | 0367 00             |



**REPLACE PERSONNEL SEATS, BACKRESTS, CUSHIONS, AND BELTS**

**0358 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0358 00-1).  
 Installation (page 0358 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

Cotter pin, per seat (8)  
 Locknut, per seat (2)  
 Locknut, per seat belt (2)  
 Rivet, per strap

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Rear door opened (TM 9-2350-366-10-1)

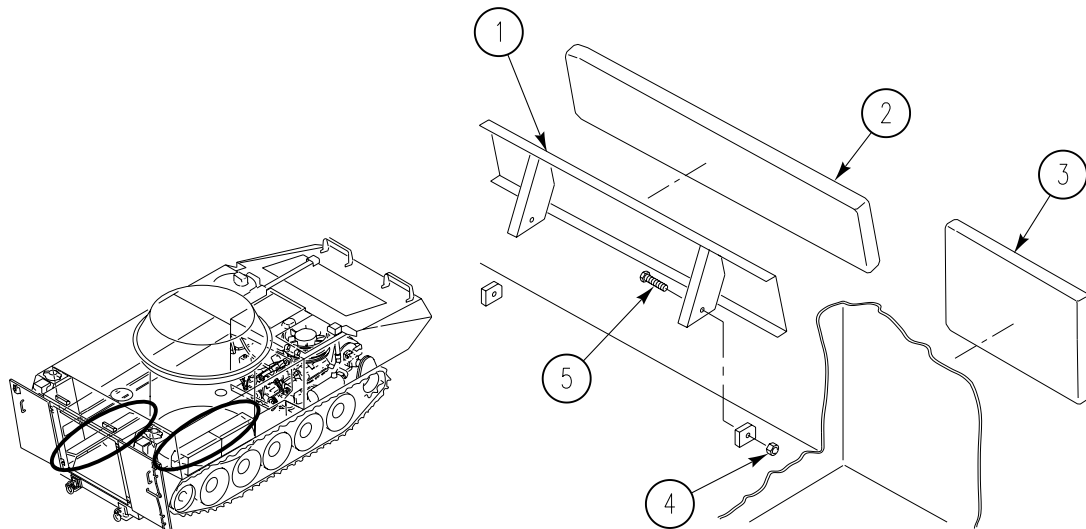
**REMOVAL**

**NOTE**

**There are two personnel seats and two backrests in the OSV vehicle. Remove and install the seats and backrests in the same way.**

**There are four backrest cushions. All four cushions are removed and installed the same way.**

1. REMOVE CUSHION (2) FROM BACKREST (1) AND CUSHION (3) FROM VEHICLE WALL.
2. REMOVE TWO LOCKNUTS (4), SCREWS (5), AND BACKREST (1) FROM SPONSON BRACKETS. DISCARD LOCKNUTS.

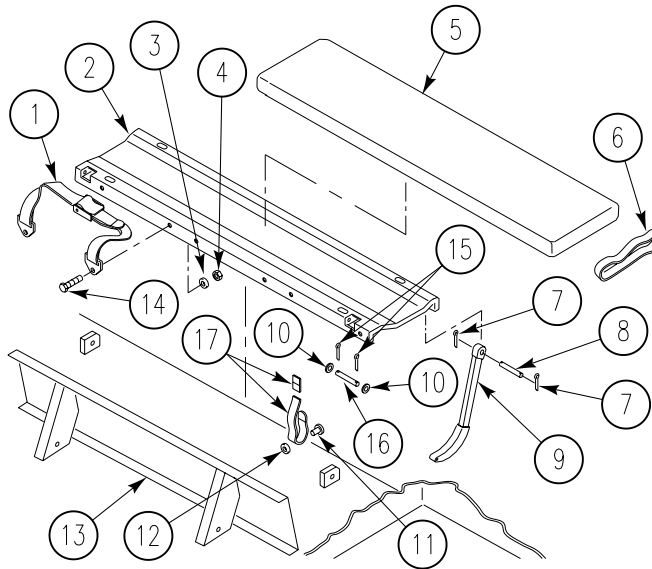


3. REMOVE FOUR COTTER PINS (15), WASHERS (10), TWO STRAIGHT PINS (16), AND SEAT (2) FROM SPONSON BRACKETS. DISCARD COTTER PINS.
4. REMOVE FOUR COTTER PINS (7), TWO STRAIGHT PINS (8), AND TWO LEGS (9) FROM SEAT (2). DISCARD COTTER PINS.
5. REMOVE TWO LOCKNUTS (4), WASHERS (3), SCREWS (14), AND SEAT BELT (1) FROM EACH POSITION ON SEAT (2). DISCARD LOCKNUTS.
6. REMOVE TWO STRAPS (6) AND CUSHION (5) FROM SEAT (2).

**NOTE**

**There are two straps on the long backrest and one strap on the short backrest. All straps are removed in the same way.**

7. IF NEEDED, REMOVE RIVET (11), WASHER (12), AND STRAP (17) FROM BACKREST (13). DISCARD RIVET.



**INSTALLATION**

1. IF REMOVED, INSTALL STRAP (17) ON BACKREST (13). SECURE WITH WASHER (12) AND NEW RIVET (11).
2. PLACE CUSHION (5) ON SEAT (2). SECURE WITH TWO STRAPS (6).
3. PLACE SEAT BELT (1) FOR EACH POSITION ON SEAT (2). SECURE WITH TWO SCREWS (14), WASHERS (3), AND NEW LOCKNUTS (4).
4. ALIGN TWO LEGS (9) WITH SEAT (2). SECURE WITH TWO STRAIGHT PINS (8) AND FOUR NEW COTTER PINS (7).
5. ALIGN SEAT (2) WITH SPONSON BRACKETS. SECURE WITH TWO STRAIGHT PINS (16), FOUR WASHERS (10), AND FOUR NEW COTTER PINS (15).

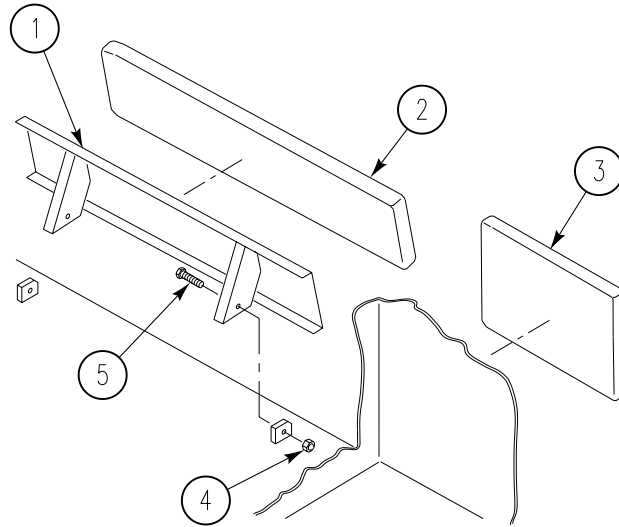
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**REPLACE PERSONNEL SEATS, BACKRESTS, CUSHIONS, AND BELTS — Continued**

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**0358 00**

6. ALIGN BACKREST (1) WITH SPONSON BRACKETS. SECURE WITH TWO SCREWS (5) AND TWO NEW LOCKNUTS (4).
7. INSTALL CUSHION (2) ON BACKREST (1) AND CUSHION (3) ON VEHICLE WALL.

**END OF TASK**





**REPLACE DRIVER'S SEAT ASSEMBLY**

**0359 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0359 00-1).  
 Installation (page 0359 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Materials/Parts

Locknut (2)

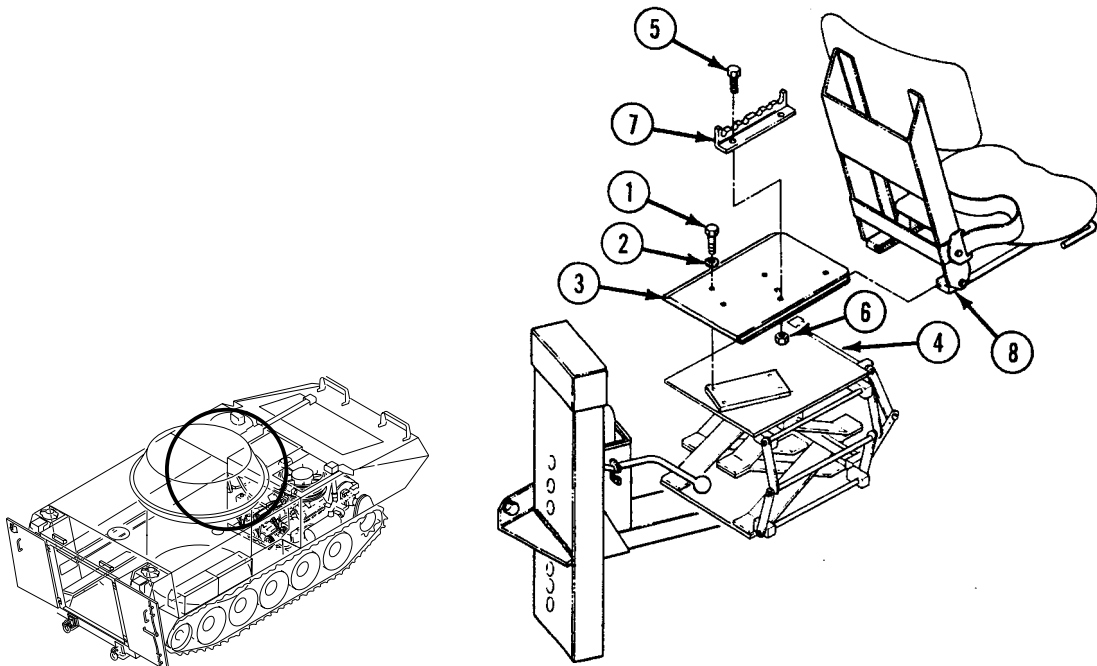
Washer (as needed)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. REMOVE FOUR SCREWS (1) AND WASHERS (2) FROM SEAT MOUNTING PLATE (3) AND ABSORBER (4).
2. REMOVE TWO SCREWS (5), LOCKNUTS (6), AND SEAT LOCK RACK (7) FROM SEAT MOUNTING PLATE (3). DISCARD LOCKNUTS.
3. SLIDE MOUNTING PLATE (3) OUT OF SEAT RAILS (8).

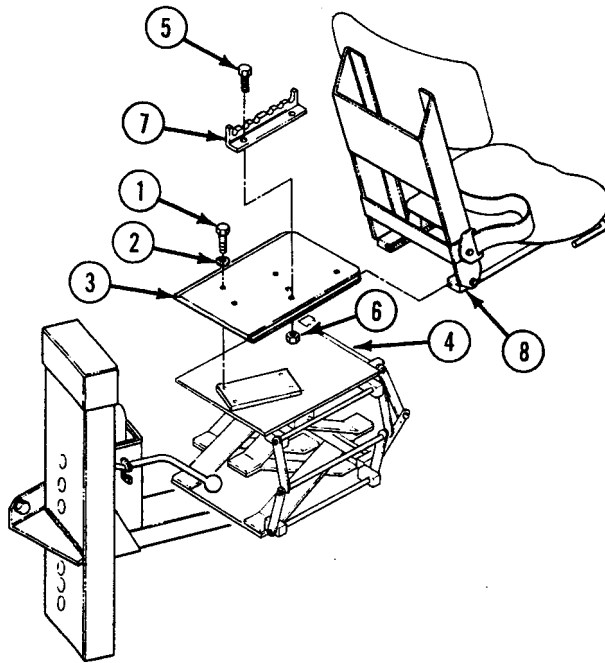


## INSTALLATION

## NOTE

Use washers as shims in front two holes between absorber and plate to ensure proper fit.

1. SLIDE MOUNTING PLATE (3) INTO SEAT RAILS (8).
2. INSTALL SEAT LOCK RACK (7) ON MOUNTING PLATE (3). SECURE WITH TWO SCREWS (5) AND NEW LOCKNUTS (6).
3. INSTALL SEAT ASSEMBLY ON ABSORBER (4). ALIGN HOLES IN SEAT MOUNTING PLATE (3) WITH THREADED HOLES IN ABSORBER. SECURE WITH FOUR SCREWS (1) AND WASHERS (2).



4. CHECK SEAT AND LOCK FOR PROPER OPERATION.

**END OF TASK**

**REPAIR DRIVER'S SEAT**

**0360 00**

**THIS WORK PACKAGE COVERS:**

Disassembly (page 0360 00-1).  
 Assembly (page 0360 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Driver's seat back assembly removed (WP 0361 00)  
 Driver's seat assembly removed (WP 0359 00)

Materials/Parts

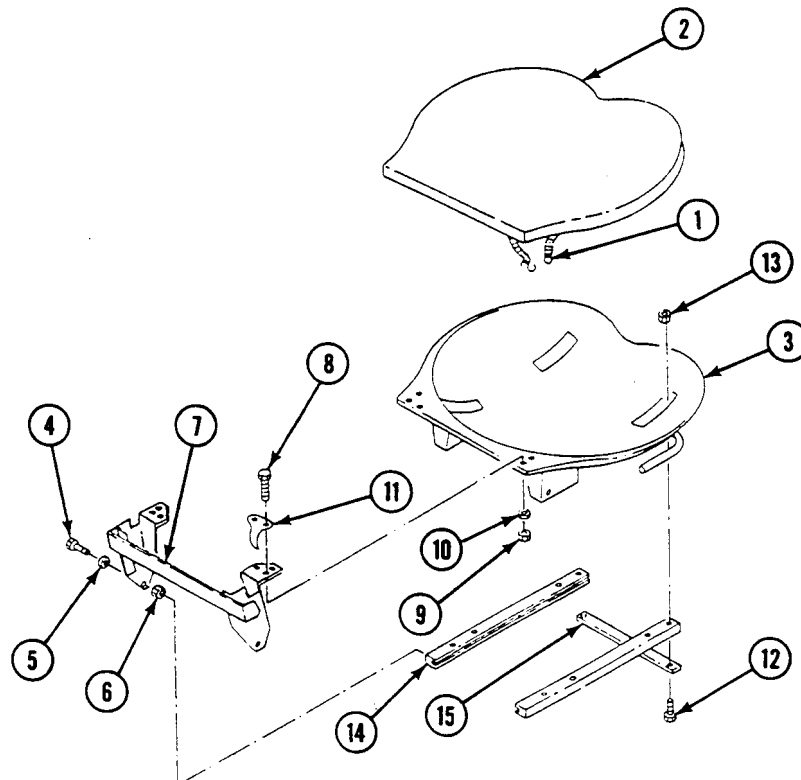
Locknut (14)  
 Spring pin (4)

Personnel Required

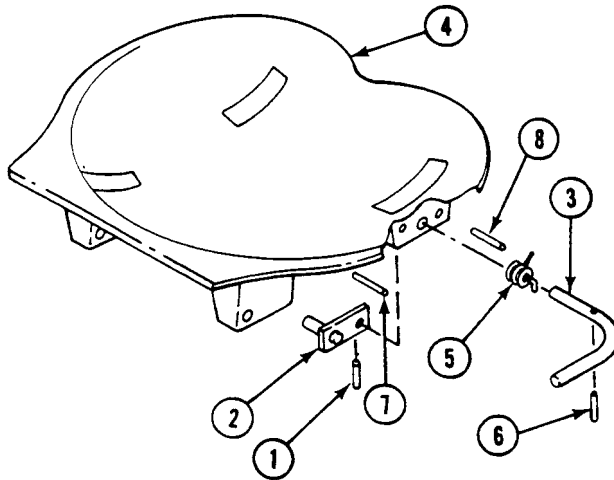
Unit Mechanic 63T10

**DISASSEMBLY**

1. UNHOOK CORD (1) AND REMOVE CUSHION (2) FROM SEAT (3).
2. REMOVE TWO SCREWS (4), WASHERS (5), AND SPACERS (6) FROM SUPPORT (7).
3. REMOVE SIX SCREWS (8), LOCKNUTS (9), WASHERS (10), AND TWO FLANGES (11) FROM SEAT (3). DISCARD LOCKNUTS.



4. REMOVE EIGHT SCREWS (12), LOCKNUTS (13), RAILS (14), AND BRACE (15) FROM SEAT (3). DISCARD LOCKNUTS.
5. REMOVE SPRING PIN (1) FROM LATCH (2) AND LEVER (3). REMOVE LATCH AND LEVER FROM SEAT (4). DISCARD SPRING PIN.
6. REMOVE SPRING (5) AND SPRING PIN (6) FROM LEVER (3). DISCARD SPRING PIN.
7. REMOVE TWO SPRING PINS (7) AND (8) FROM SEAT (4). DISCARD SPRING PINS.



**ASSEMBLY**

**NOTE**

**Forward pin protrudes outboard and aft pin protrudes inboard.**

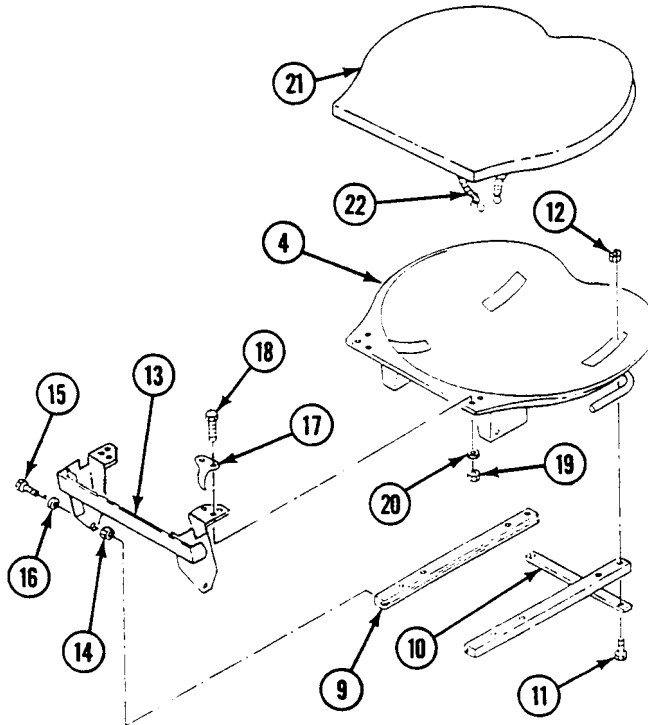
1. INSTALL TWO NEW SPRING PINS (7) AND (8) IN SEAT (4).
2. INSTALL NEW SPRING PIN (6) IN LEVER (3), AND INSTALL SPRING (5) ON LEVER (3).
3. INSTALL LEVER (3) IN SEAT (4). PLACE LATCH (2) ON LEVER AND SECURE WITH NEW SPRING PIN (1).

**NOTE**

**Connect brace to the two forward holes of the rails.**

4. INSTALL RAILS (9) AND BRACE (10) ON SEAT (4). SECURE WITH EIGHT SCREWS (11) AND NEW LOCKNUTS (12).
5. ALIGN HOLES BETWEEN RAILS (9) AND SUPPORT (13). PLACE SPACERS (14) BETWEEN RAILS (9) AND SUPPORT (13), AND SECURE WITH TWO SCREWS (15) AND WASHERS (16).
6. PLACE RIGHT AND LEFT FLANGES (17) ON SUPPORT (13). SECURE TO SEAT (4) WITH SIX SCREWS (18), NEW LOCKNUTS (19), AND WASHERS (20).

7. PLACE CUSHION (21) ON SEAT (4) AND CONNECT HOOKS ON CORD (22).



8. INSTALL DRIVER'S SEAT ASSEMBLY WP 0359 00.  
 9. INSTALL DRIVER'S SEAT BACK ASSEMBLY WP 0361 00.

**END OF TASK**



---

**REPLACE DRIVER'S SEAT BACK ASSEMBLY**

---

**0361 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0361 00-1).  
 Installation (page 0361 00-1).

---

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Personnel Required

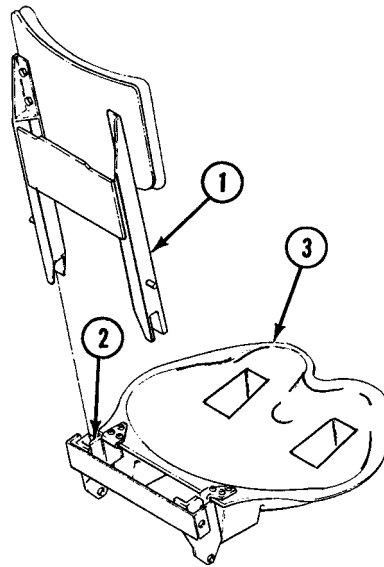
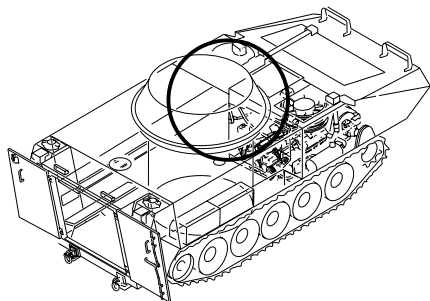
Unit Mechanic 63T10

Vehicle blocked (TM 9-2350-366-10-1)

---

**REMOVAL**

1. PUSH DRIVER'S SEAT BACK ASSEMBLY (1) FORWARD AGAINST SPRING TENSION OF FLANGES (2), AND LIFT SEAT BACK ASSEMBLY FROM SEAT (3).



**INSTALLATION**

1. PUSH SEAT BACK ASSEMBLY (1) DOWN INTO SEAT (3) UNTIL IT LOCKS INTO POSITION.

**END OF TASK**





---

**REPAIR DRIVER'S SEAT BACK ASSEMBLY**

**0362 00**

---

**THIS WORK PACKAGE COVERS:**

Removal (page 0362 00-1).  
 Installation (page 0362 00-1)

---

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Personnel Required

Unit Mechanic 63T10

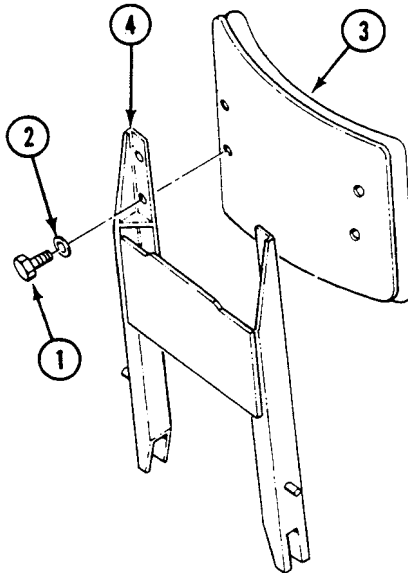
Carrier blocked (TM 9-2350-366-10-1)

Driver's seat back assembly removed (WP 0361 00)

---

**DISASSEMBLY**

1. REMOVE FOUR SCREWS (1), WASHERS (2), AND BACKREST (3) FROM SUPPORT (4).



**ASSEMBLY**

1. INSTALL BACKREST (3) ON SUPPORT (4). SECURE WITH FOUR SCREWS (1) AND WASHERS (2).
2. INSTALL DRIVER'S SEAT BACK ASSEMBLY (WP 0361 00).

**END OF TASK**



---

**REPLACE DRIVER'S SEAT IMPACT ABSORBER**

---

**0363 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0363 00-1).  
 Installation (page 0363 00-1).

---

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Carrier blocked (TM 9-2350-366-10-1)  
 Driver's seat assembly removed (WP 0359 00)

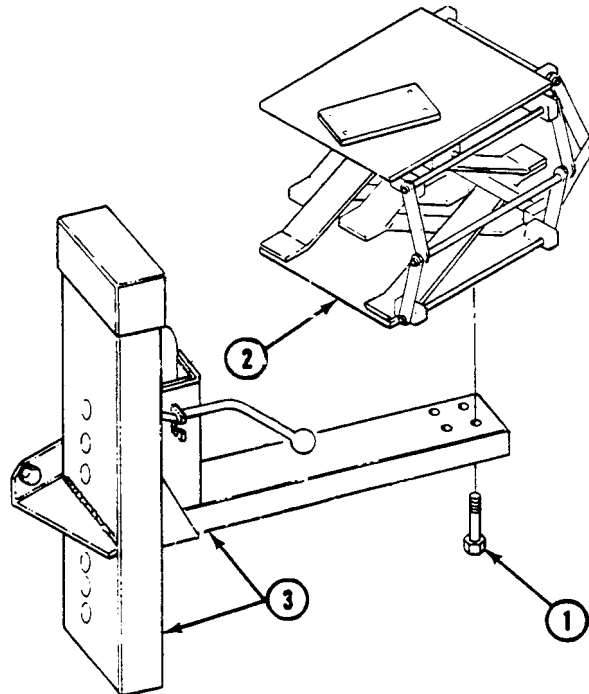
Personnel Required

Unit Mechanic 63T10

---

**REMOVAL**

1. REMOVE FOUR SCREWS (1) FROM ABSORBER (2) AND POST ASSEMBLY (3). REMOVE ABSORBER.



**INSTALLATION**

1. INSTALL ABSORBER (2) ON POST ASSEMBLY (3). SECURE WITH FOUR SCREWS (1).
2. INSTALL DRIVER'S SEAT ASSEMBLY (WP 0359 00).

**END OF TASK**



**REPLACE DRIVER'S SEAT POST ASSEMBLY**

**0364 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0364 00-1).
- Installation (page 0364 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Driver's seat assembly removed (WP 0359 00)
- Driver's seat impact absorber removed (WP 0363 00)

Materials/Parts

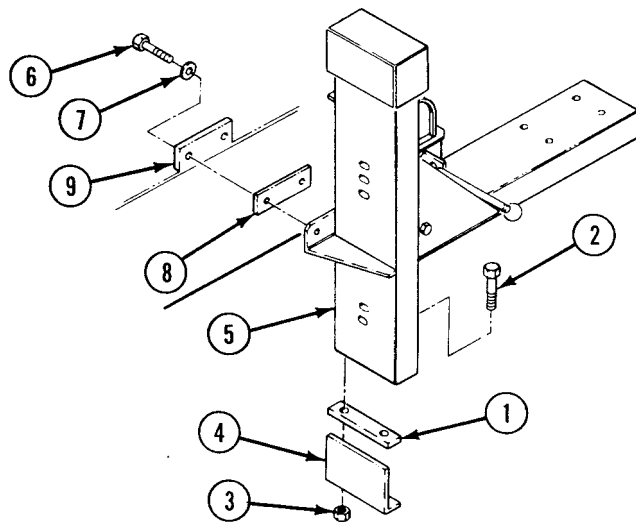
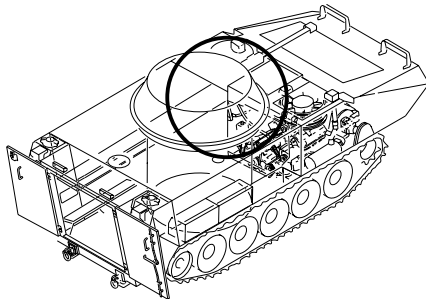
Locknut (2)

Personnel Required

- Unit Mechanic 63T10
- Helper (H)

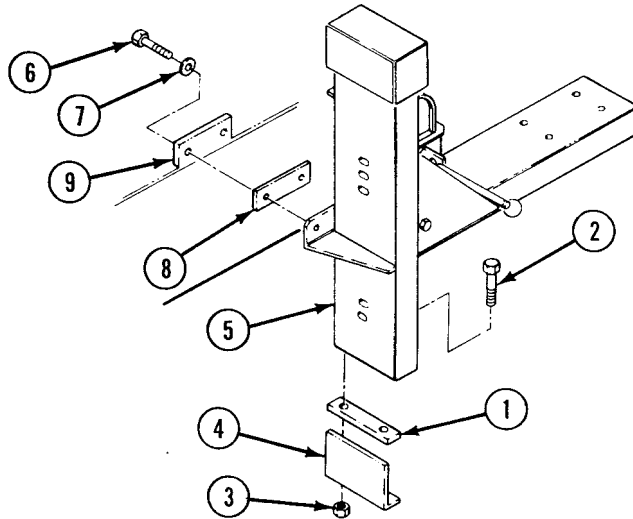
**REMOVAL**

1. REMOVE BUMPER (1), TWO SCREWS (2), AND LOCKNUTS (3) FROM LOWER SUPPORT BRACKET (4). DISCARD LOCKNUTS.
2. SUPPORT POST ASSEMBLY (5) AND REMOVE TWO SCREWS (6), WASHERS (7), AND STRIP (8) FROM POST ASSEMBLY AND SPONSON BRACKET (9). REMOVE POST ASSEMBLY FROM CARRIER. HAVE HELPER ASSIST.



**INSTALLATION**

1. PLACE POST ASSEMBLY (5) ON LOWER BRACKET (4) AND AGAINST SPONSON BRACKET (9). SECURE POST TO SPONSON BRACKET WITH TWO SCREWS (6), WASHERS (7), AND STRIP (8).
2. SECURE LOWER END OF POST ASSEMBLY (5) TO LOWER BRACKET (4) WITH TWO SCREWS (2) AND NEW LOCKNUTS (3).
3. INSTALL BUMPER (1) INSIDE POST (5).



4. INSTALL DRIVER'S SEAT IMPACT ABSORBER (WP 0363 00).
5. INSTALL DRIVER'S SEAT ASSEMBLY (WP 0359 00).

**END OF TASK**

**REPAIR DRIVER'S SEAT POST ASSEMBLY**

**0365 00**

**THIS WORK PACKAGE COVERS:**

Disassembly (page 0365 00-1).  
 Assembly (page 0365 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Retaining ring pliers set (WP 0397 00, Item 32)

References

TM 9-2350-366-10-1

Materials/Parts

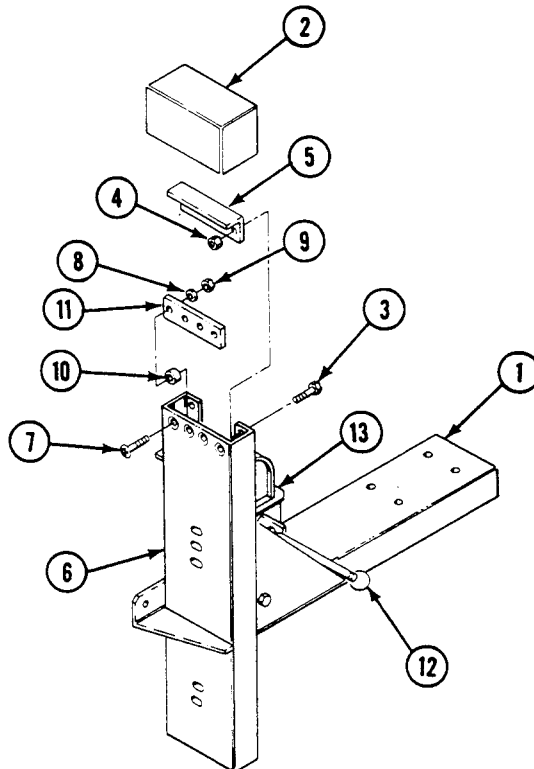
Cotter pin  
 Locknut (4)  
 Locknut (2)  
 Locknut (4)  
 Spring pin (4)

Equipment Condition

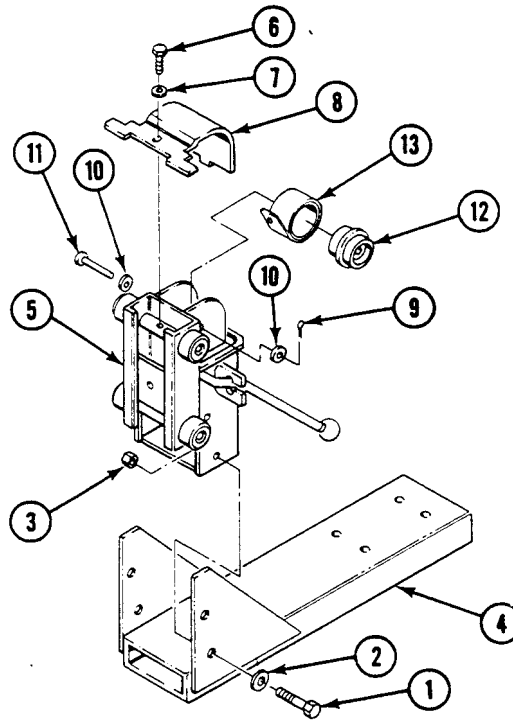
Engine stopped (TM 9-2350-366-10-1)  
 Carrier blocked (TM 9-2350-366-10-1)  
 Driver's seat assembly removed (WP 0359 00)  
 Driver's seat impact absorber removed (WP 0363 00)  
 Driver's seat post assembly removed (WP 0364 00)

**DISASSEMBLY**

1. LOWER SEAT SUPPORT (1) TO BOTTOM HOLE. REMOVE CAP (2), TWO SCREWS (3), LOCKNUTS (4), AND STIFFENER (5) FROM POST (6). DISCARD LOCKNUTS.



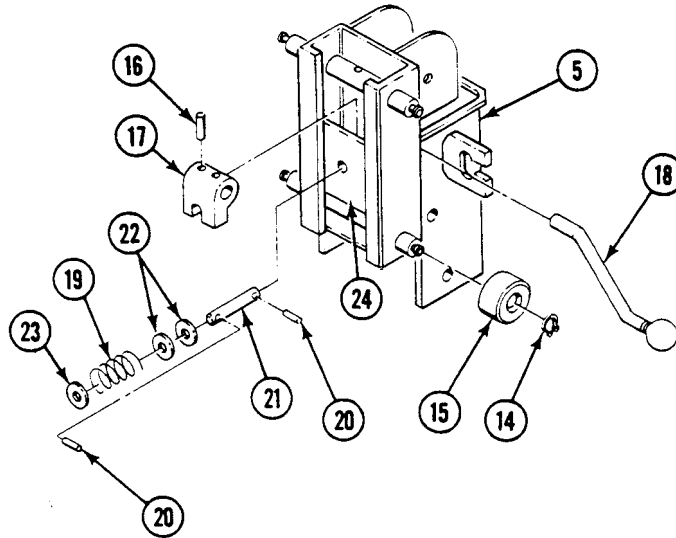
2. REMOVE FOUR SCREWS (7), WASHERS (8), LOCK NUTS (9), TWO SPACERS (10), AND PLATE (11) FROM POST (6). DISCARD LOCKNUTS.
3. HOLD CRANK (12) UP AND SLIDE ADJUSTER (13) UP AND OUT OF POST (6).
4. REMOVE FOUR SCREWS (1), WASHERS (2), LOCKNUTS (3), AND SUPPORT (4) FROM ADJUSTER (5). DISCARD LOCKNUTS.
5. REMOVE SCREW (6), WASHER (7), AND SPRING COVER (8) FROM ADJUSTER (5). REMOVE COVER.
6. REMOVE COTTER PIN (9), WASHER (10), PIN (11), WASHER (10), AND SPOOL (12) WITH TWO SPRINGS (13) FROM ADJUSTER (5). REMOVE SPRINGS FROM SPOOL. DISCARD COTTER PIN.



7. REMOVE FOUR SNAP RINGS (14) AND ROLLERS (15).
8. WORK THROUGH SLOT ON TOP OF ADJUSTER (5), AND REMOVE TWO SPRING PINS (16) FROM CAM (17). REMOVE CRANK (18). DISCARD SPRING PINS.
9. COMPRESS SPRING (19) AGAINST WALL OF ADJUSTER (5). REMOVE TWO SPRING PINS (20) FROM STOP PIN (21). REMOVE STOP PIN, TWO WASHERS (22), AND CAM (17) FROM INSIDE ADJUSTER. DISCARD SPRING PINS.



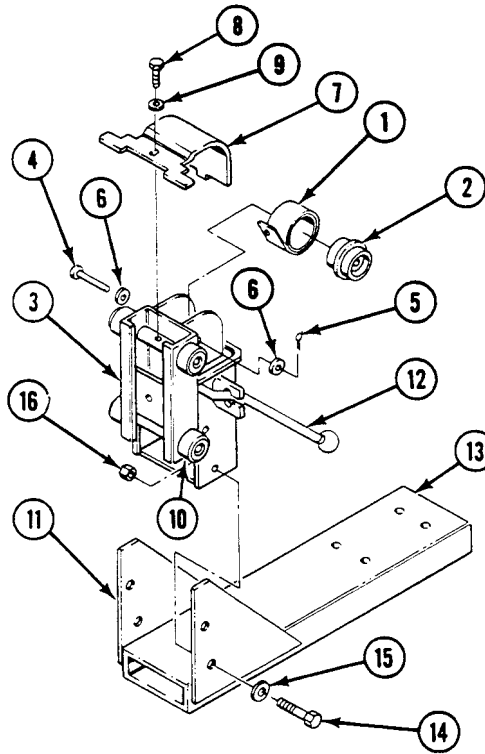
10. REMOVE SPRING (19) AND WASHER (23) FROM ADJUSTER (5).



#### ASSEMBLY

1. PLACE CRANK (18) IN ADJUSTER (5) AND INSTALL CAM (17). SECURE WITH TWO NEW SPRING PINS (16).
2. ALIGN SPRING (19) AND TWO WASHERS (22) WITH HOLES OF STIFFENER (24) AND ADJUSTER (5).
3. INSTALL NEW SPRING PIN (20) IN HOLE CLOSEST TO END OF STOP PIN (21). INSTALL TWO WASHERS (22) ON STOP PIN FROM OTHER END AND PUSH UP AGAINST SPRING PIN. SLIDE STOP PIN THROUGH SLOT IN CAM (17), HOLE IN HOUSING, AND SPRING (20), WASHER (23), AND INTO HOLE IN STIFFENER (24).
4. COMPRESS SPRING (19) AGAINST WALL OF ADJUSTER (5) AND INSTALL NEW SPRING PIN (20) OUTBOARD OF WASHERS (22). CHECK OPERATION OF CRANK (18) AND STOP PIN.
5. INSTALL FOUR ROLLERS (15) ON SHAFT OF ADJUSTER (5) AND SECURE WITH FOUR SNAP RINGS (14).
6. INSTALL TWO SPRINGS (1) ON SPOOL (2) AND INSTALL ON TOP OF ADJUSTER (3). INSTALL PIN (4) THROUGH SPOOL. SECURE WITH NEW COTTER PIN (5) AND TWO WASHERS (6).
7. PRY OUT TWO SPRINGS (1) AND ROUTE UNDER UPPER ROLLER SHAFT. EXTEND SPRINGS 2 TO 3 INCHES BEYOND ROLLER SHAFT.
8. INSTALL SPRING COVER (7) ON ADJUSTER (3). SECURE WITH ONE SCREW (8) AND WASHER (9).
9. PLACE LOWER ROLLER (10) INSIDE TOP OF POST (11). RAISE CRANK (12) AND SLIDE ADJUSTER (3) DOWN INTO POST UNTIL HOLES IN POST LINE UP WITH HOLES IN SPRINGS (1).

10. INSTALL SUPPORT (13) ON ADJUSTER (3). SECURE WITH FOUR SCREWS (14), WASHERS (15), AND NEW LOCKNUTS (16).



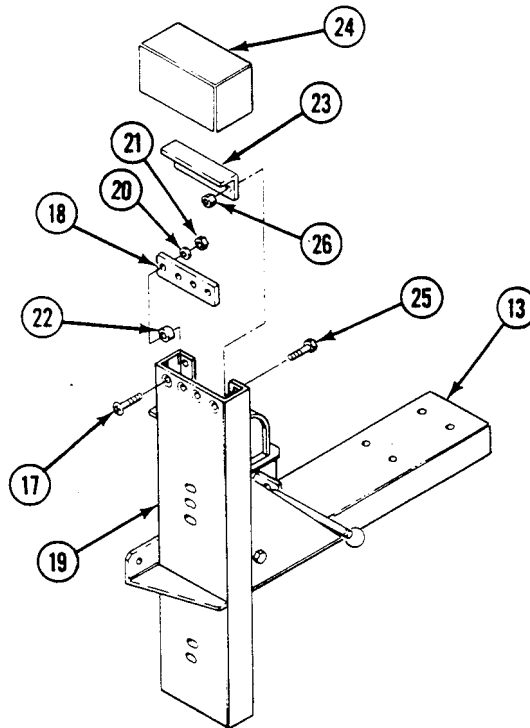
11. INSTALL TWO SCREWS (17) INTO INBOARD HOLES AND INSTALL PLATE (18) TO POST (19) WITH TWO SCREWS (17), WASHERS (20), AND NEW LOCKNUTS (21). TIGHTEN LOCKNUTS TWO TURNS ONLY AT THIS TIME.
12. PLACE SPACERS (22) BETWEEN POST (19) AND PLATE (18) AT THE OUTBOARD HOLES. INSTALL TWO SCREWS (17) THROUGH SPACERS AND PLATE. SECURE WITH TWO WASHERS (20) AND NEW LOCKNUTS (21).

### **CAUTION**

**Take care not to tighten the locknuts too tight or the plate will bend.**

13. TIGHTEN TWO LOCKNUTS (21), INSTALLED IN Step 11 ABOVE, JUST ENOUGH TO BOTTOM AGAINST PLATE (18).

14. LOWER SEAT SUPPORT (13) ALL THE WAY DOWN. PLACE STIFFENER (23) IN POST AND INSTALL CAP (24). SECURE WITH TWO SCREWS (25) AND NEW LOCKNUTS (26).



15. INSTALL DRIVER'S SEAT POST ASSEMBLY (WP 0364 00).  
 16. INSTALL DRIVER'S SEAT IMPACT ABSORBER (WP 0363 00).  
 17. INSTALL DRIVER'S SEAT ASSEMBLY (WP 0359 00).

**END OF TASK**



---

**REPLACE DRIVER'S FOOTREST**

**0366 00**

---

**THIS WORK PACKAGE COVERS:**

Removal (page 0366 00-1).  
 Installation (page 0366 00-1).

---

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Materials/Parts

Locknut (2)

Vehicle blocked (TM 9-2350-366-10-1)

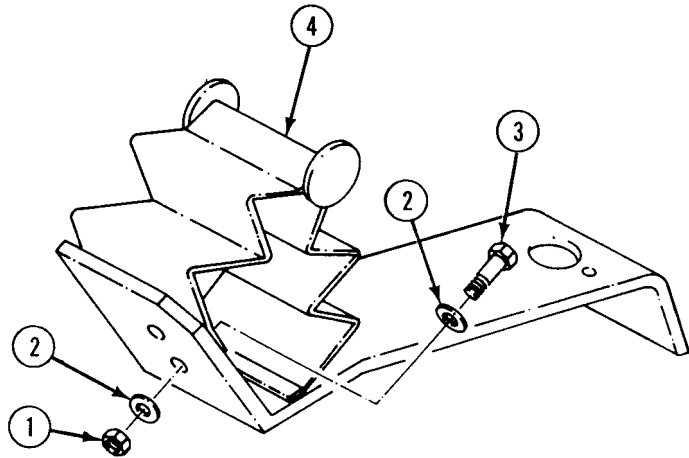
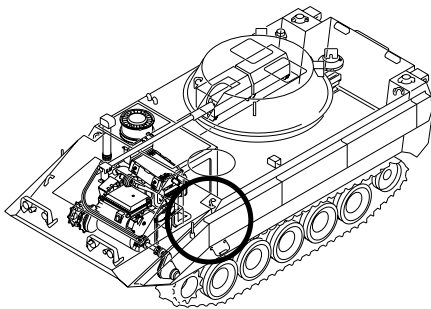
Personnel Required

Unit Mechanic 63T10

---

**REMOVAL**

1. REMOVE TWO LOCKNUTS (1), FOUR WASHERS (2), TWO SCREWS (3), AND FOOTREST (4) FROM CARRIER. DISCARD LOCKNUTS.



**INSTALLATION**

1. INSTALL FOOTREST (4) ON HULL. SECURE WITH TWO SCREWS (3), FOUR WASHERS (2), AND TWO NEW LOCKNUTS (1).

**END OF TASK**



**REPLACE OILCAN BRACKET****0367 00****THIS WORK PACKAGE COVERS:**

Removal (page 0367 00-1).  
Installation (page 0367 00-1).

**INITIAL SETUP:**Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
Torque wrench (WP 0397 00, Item 82)

Equipment Condition

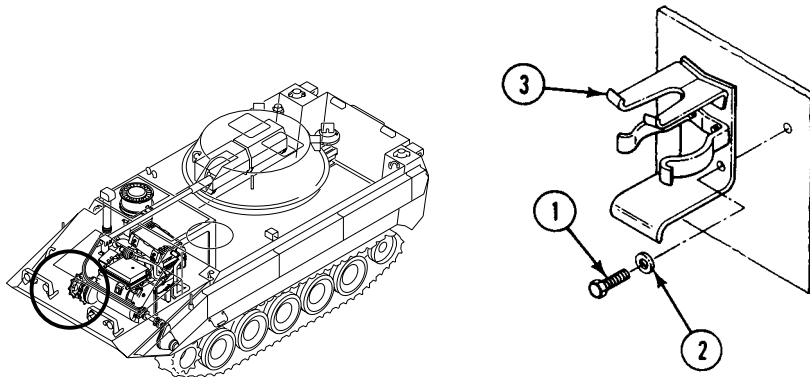
Engine stopped (TM 9-2350-366-10-1)  
Vehicle blocked (TM 9-2350-366-10-1)  
Power plant access panel removed (WP 0309 00)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. REMOVE TWO SCREWS (1), WASHERS (2), AND OILCAN BRACKET (3) FROM POWER PLANT COMPARTMENT.

**INSTALLATION**

1. ALIGN OILCAN BRACKET (3) WITH BULKHEAD IN POWER PLANT COMPARTMENT. SECURE WITH TWO WASHERS (2) AND SCREWS (1). TIGHTEN SCREWS TO 22-24 LB-FT (30-33 N.M) TORQUE.
2. INSTALL POWER PLANT ACCESS PANEL (WP 0309 00).

**END OF TASK**





CHAPTER 36

UNIT MAINTENANCE INSTRUCTIONS  
FOR PERSONNEL HEATER

---

**WORK PACKAGE INDEX**

---

| <u>Title</u>                                       | <u>Sequence No.</u> |
|--|---------------------|
| REPAIR PERSONNEL HEATER DUCT.....                  | .0368 00            |
| REPLACE PERSONNEL HEATER DUCT AND HOSES.....       | .0369 00            |
| REPAIR PERSONNEL HEATER ASSEMBLY.....              | .0370 00            |
| REPLACE PERSONNEL HEATER ASSEMBLY.....             | .0371 00            |
| REPAIR PERSONNEL HEATER CONTROL BOX.....           | .0372 00            |
| REPLACE PERSONNEL HEATER CONTROL BOX.....          | .0373 00            |
| REPLACE FUEL PUMP TO BULKHEAD CONNECTION HOSE..... | .0374 00            |
| REPLACE PERSONNEL HEATER FUEL FILTER/BRACKET.....  | .0375 00            |
| REPLACE PERSONNEL HEATER FUEL PUMP.....            | .0376 00            |
| REPLACE PERSONNEL HEATER FUEL PUMP HOSE.....       | .0377 00            |
| REPLACE HEATER/FILTER FUEL SUPPLY HOSES.....       | .0378 00            |
| REPLACE PERSONNEL HEATER FUEL TUBE.....            | .0379 00            |
| REPLACE HEATER AIR INTAKE AND EXHAUST PIPES.....   | .0380 00            |
| REPLACE FUEL SHUT-OFF VALVE ASSEMBLY.....          | .0381 00            |
| SERVICE PERSONNEL HEATER FUEL FILTER.....          | .0382 00            |
| SERVICE PERSONNEL HEATER FUEL PUMP.....            | .0383 00            |
| BLEED AIR FROM PERSONNEL HEATER FUEL LINES.....    | .0384 00            |



**REPAIR PERSONNEL HEATER DUCT**

**0368 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0368 00-1).  
 Installation (page 0368 00-2).

**INITIAL SETUP:**

Maintenance Level  
 Unit

Personnel Required  
 Unit Mechanic 63T10

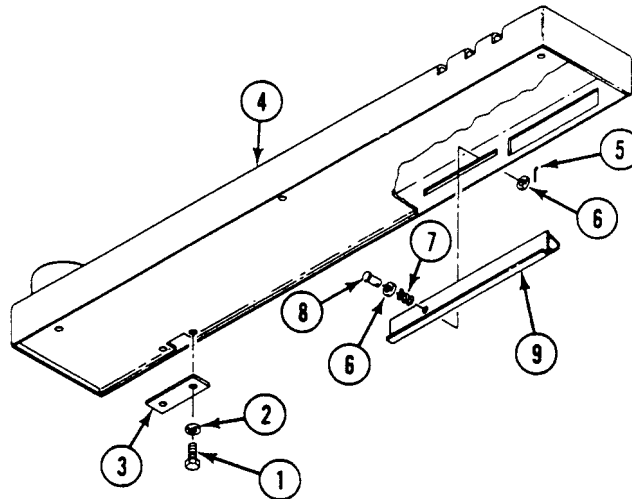
Tools and Special Tools  
 General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition  
 Heater duct removed (WP 0369 00)

Materials/Parts  
 Cotter pin (2)

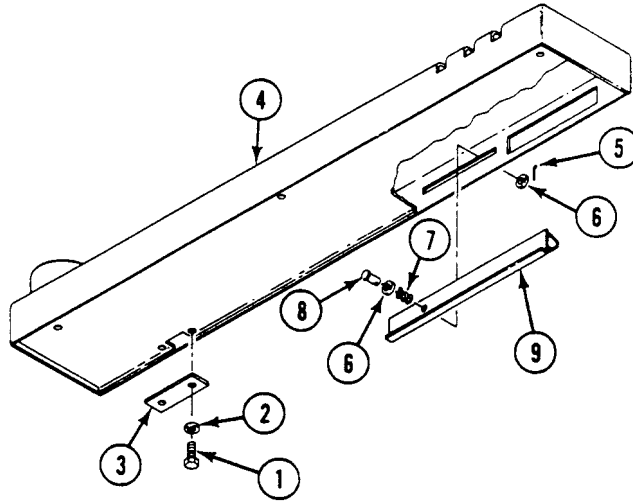
**REMOVAL**

1. REMOVE FOUR SCREWS (1), WASHERS (2), AND TWO ACCESS COVERS (3) FROM BOTTOM OF HEATER DUCT (4).
2. REMOVE TWO COTTER PINS (5), FOUR WASHERS (6), TWO SPRINGS (7), PINS (8), AND VALVES (9) FROM DUCT (4) THROUGH ACCESS OPENINGS. DISCARD COTTER PINS.



**INSTALLATION**

1. INSTALL TWO VALVES (9) THROUGH BOTTOM ACCESS OPENINGS ON HEATER DUCT (4). INSTALL TWO PINS (8), FOUR WASHERS (6), AND TWO SPRINGS (7) THROUGH VALVES. SECURE WITH TWO NEW COTTER PINS (5).
2. INSTALL TWO ACCESS COVERS (3) TO BOTTOM OF HEATER DUCT (4). SECURE WITH FOUR WASHERS (2) AND SCREWS (1).



3. INSTALL HEATER DUCT (WP 0369 00).

**END OF TASK**

---

**REPLACE PERSONNEL HEATER DUCT AND HOSES**

**0369 00**

---

**THIS WORK PACKAGE COVERS:**

Removal (page 0369 00-1).  
 Installation (page 0369 00-2).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Rear personnel doors open (TM 9-2350-366-10-1)  
 Turret rotated to 3200 mils (TM 9-2350-366-10-2)

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Personnel Required

Unit Mechanic 63T10

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

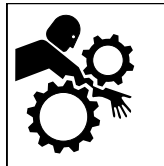
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**REMOVAL**

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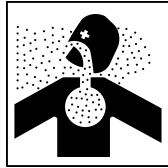
**WARNING**

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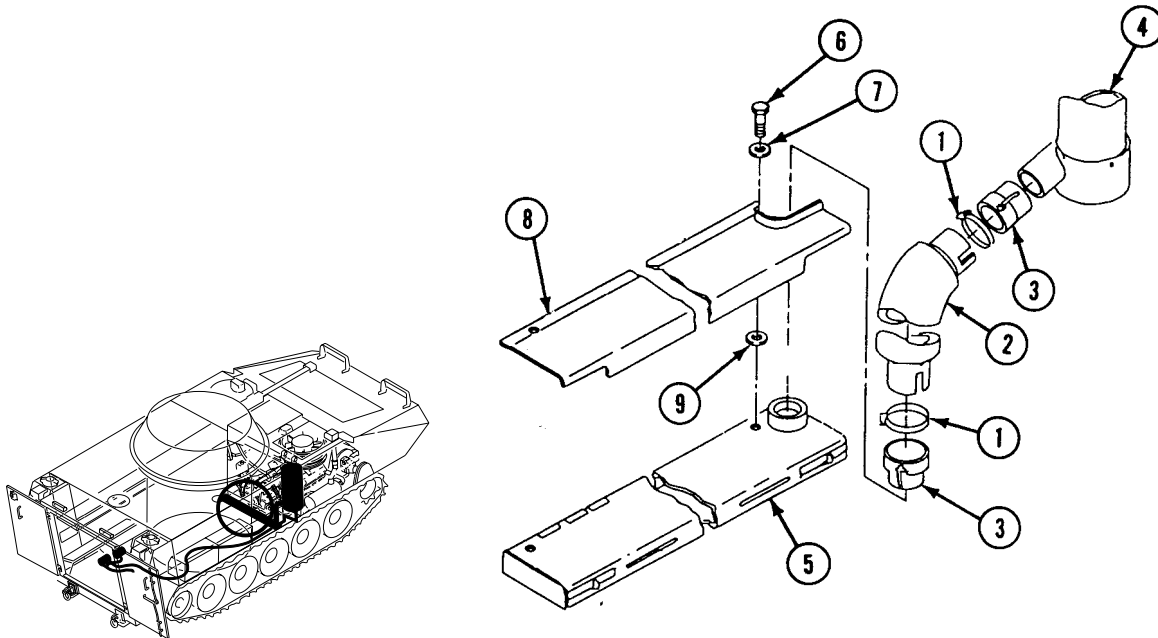
**Working between turret and rear engine access panel can be hazardous. Make sure MASTER POWER switch and TURRET POWER switch are OFF. Notify other personnel you are working in this area.**

1. LOOSEN TWO CLAMPS (1). REMOVE HOSE (2) FROM TWO NIPPLES (3). REMOVE CLAMPS FROM HOSE.
2. LOOSEN LATCHES. REMOVE NIPPLE (3) FROM DUCT (4) AND NIPPLE (3) FROM DUCT (5).

**WARNING**

The OBD insulator blanket is made out of asbestos. Handle with care. Discard insulator blanket properly as a hazardous material per local standard operating procedure. The insulator washer takes the place of the blanket.

3. REMOVE THREE SCREWS (6), WASHERS (7), SHIELD (8), THREE INSULATOR WASHERS (9), AND DUCT (5) FROM CARRIER.

**INSTALLATION**

1. ALIGN DUCT (5), THREE INSULATOR WASHERS (9), AND SHIELD (8) WITH HOLES IN CARRIER FLOOR. SECURE WITH THREE WASHERS (7) AND SCREWS (6).
2. INSTALL NIPPLE (3) IN DUCT (5) AND NIPPLE (3) IN DUCT (4). SECURE WITH LATCH ON EACH NIPPLE.
3. INSTALL TWO CLAMPS (1) ON HOSE (2). SECURE HOSE IN TWO NIPPLES (3) WITH CLAMPS.
4. ROTATE TURRET TO 6400 MILS OR AS NEEDED. See TM 9-2350-366-10-2.
5. START ENGINE. See TM 9-2350-366-10-1.
6. CLOSE AND LOCK REAR PERSONNEL DOORS. See TM 9-2350-366-10-1.
7. STOP ENGINE. See TM 9-2350-366-10-1.

**END OF TASK**

---

**REPAIR PERSONNEL HEATER ASSEMBLY**

**0370 00**

---

**THIS WORK PACKAGE COVERS:**

Repair or Replacement (page 0370 00-1).

---

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2540-205-24&P

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Personnel Required

Unit Mechanic 63T10

Personnel heater assembly removed (WP 0371 00)

---

**REPAIR OR REPLACEMENT**

1. SEE TM 9-2540-205-24&P FOR PERSONNEL HEATER ASSEMBLY REPAIR PROCEDURES.
2. INSTALL PERSONNEL HEATER ASSEMBLY (WP 0371 00).

**END OF TASK**





---

**REPLACE PERSONNEL HEATER ASSEMBLY**

**0371 00**

---

**THIS WORK PACKAGE COVERS:**

Removal (page 0371 00-1).  
 Installation (page 0371 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

Lock washer (11)

Personnel Required

Unit Mechanic 63T10

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

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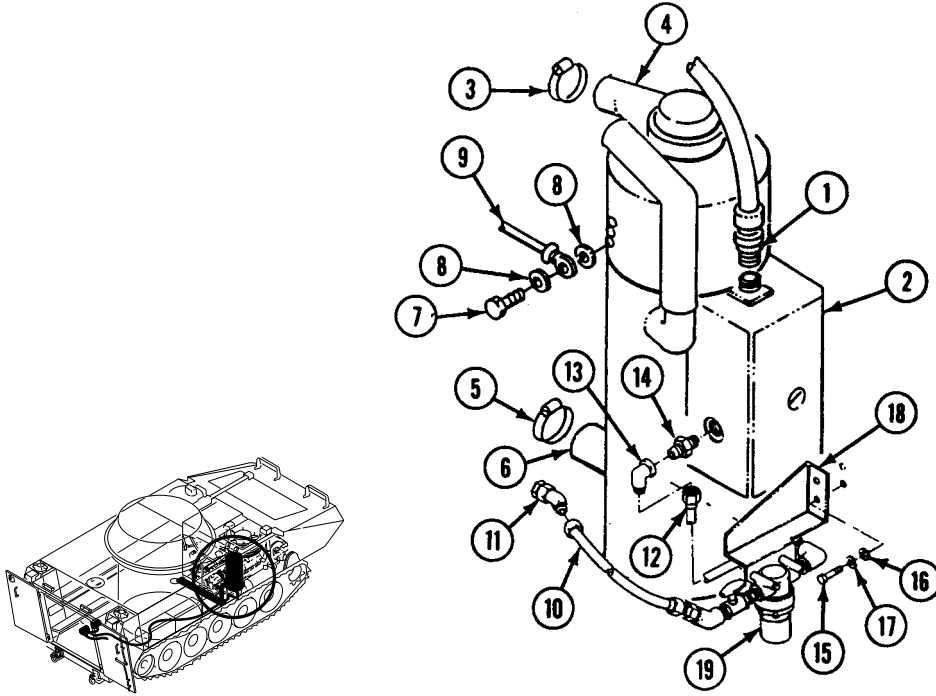
Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Battery ground strap disconnected (WP 0237 00)  
 Power plant rear access panel removed (WP 0308 00)  
 Heater hose removed from plenum (WP 0369 00)  
 Turret rotated to 3200 mils (TM 9-2350-366-10-2)

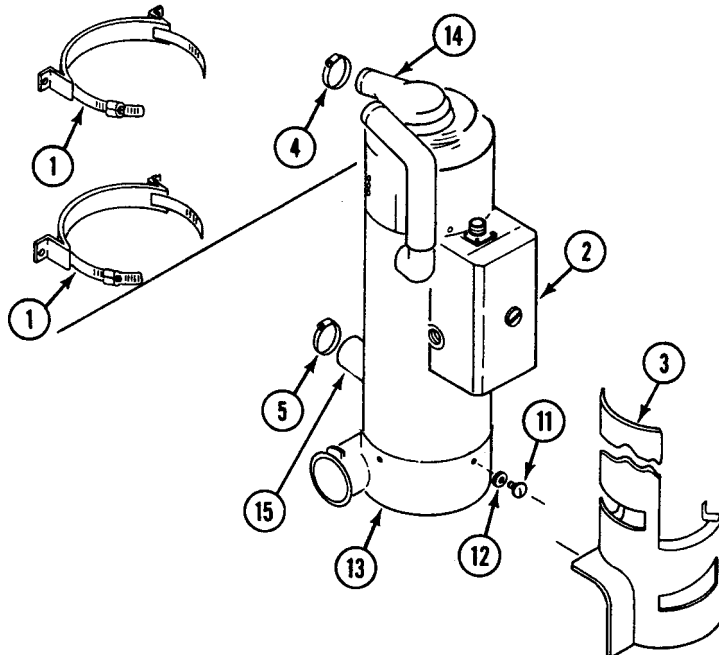
**REMOVAL**

1. DISCONNECT HEATER WIRING HARNESS (1) FROM HEATER (2).
2. LOOSEN CLAMP (3) ON HEATER INTAKE PIPE (4).
3. LOOSEN CLAMP (5) ON HEATER EXHAUST PIPE (6).
4. REMOVE SCREW (7), TWO LOCK WASHERS (8), AND GROUND STRAP (9) FROM HEATER (2). DISCARD LOCK WASHERS.
5. REMOVE HEATER FUEL INLET HOSE (10) FROM FITTING (11) ON BULKHEAD.
6. REMOVE INLET HOSE (12) FROM ELBOW (13) ON HEATER (2).
7. REMOVE ELBOW (13) FROM NIPPLE (14). REMOVE NIPPLE FROM HEATER (2).

8. REMOVE TWO SCREWS (15), WASHERS (16), LOCK WASHERS (17), AND BRACKET (18) FROM BULKHEAD. REMOVE BRACKET, FILTER (19), AND FUEL HOSES (10), (12) FROM CARRIER. DISCARD LOCK WASHERS.



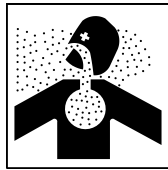
9. LOOSEN TWO CLAMPS (1). REMOVE HEATER (2) AND SHIELD (3) FROM CARRIER. REMOVE TWO CLAMPS (4)(5) FROM HEATER.





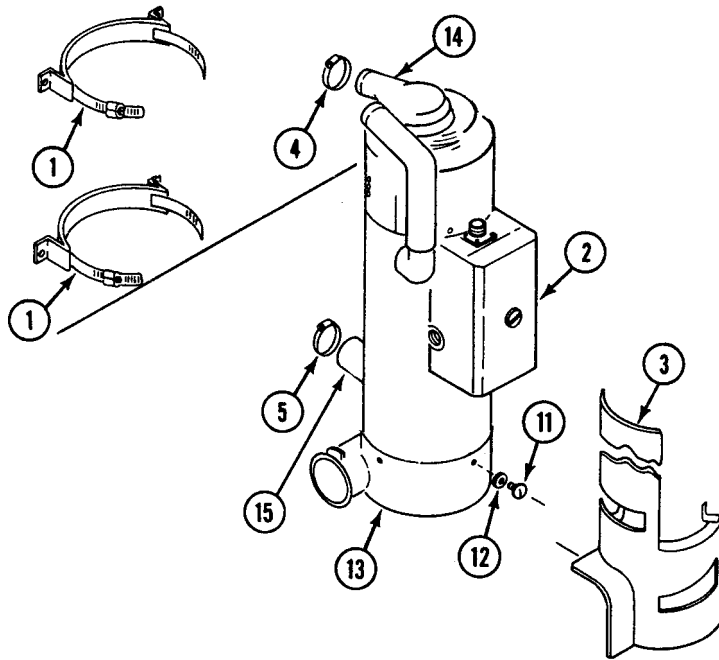
INSTALLATION

**WARNING**



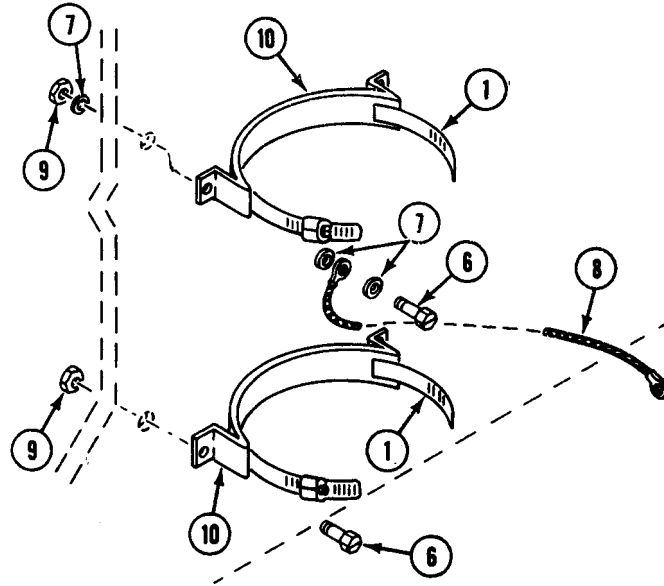
Exhaust fumes can poison you if wrong heater is installed. Do not interchange “common air” heater for a “dual air” heater.

1. INSTALL PLENUM (13) ON HEATER (2). SECURE WITH FOUR NEW LOCK WASHERS (12) AND SCREWS (11).

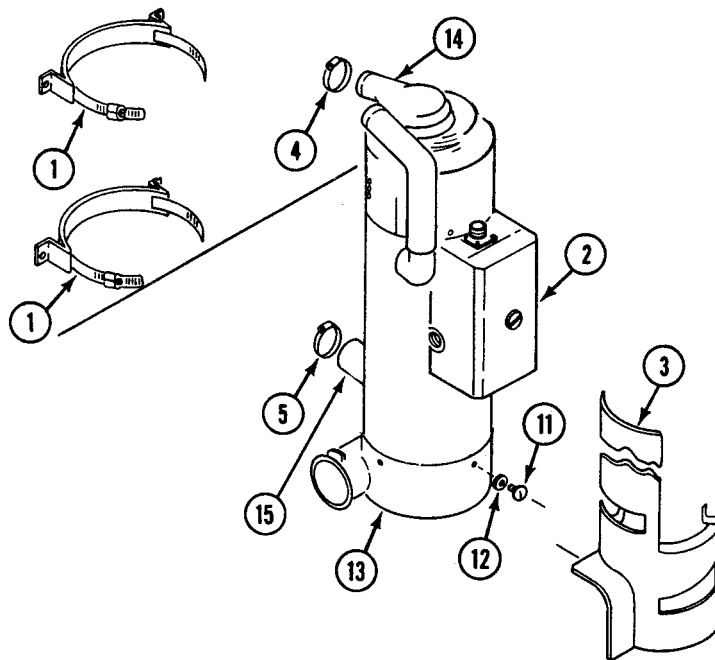


2. INSTALL TWO CLAMPS (1) IN TWO MOUNTS (10).

3. INSTALL TWO MOUNTS (10) ON POWER PLANT BULKHEAD. SECURE WITH FOUR SCREWS (6), THREE NEW LOCK WASHERS (7), GROUND STRAP (8), AND FOUR NUTS (9).

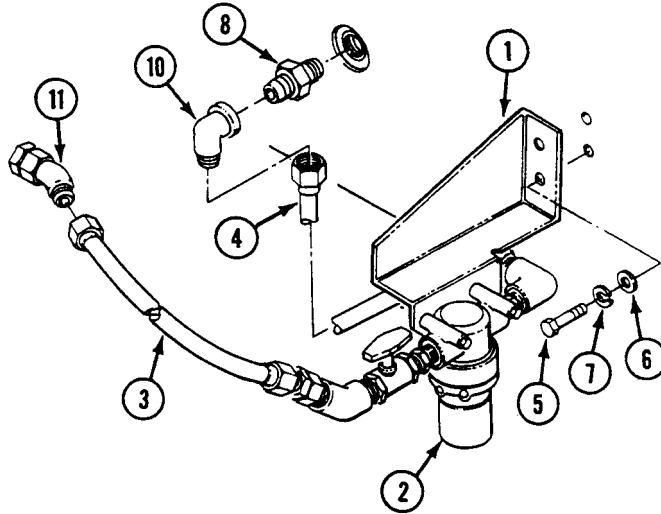


4. SLIDE CLAMP (4) ON HEATER INTAKE PIPE (14) AND CLAMP (5) ON HEATER EXHAUST PIPE (15). INSTALL HEATER (2) AND SHIELD (3) ON MOUNTS. SECURE WITH TWO CLAMPS (1).

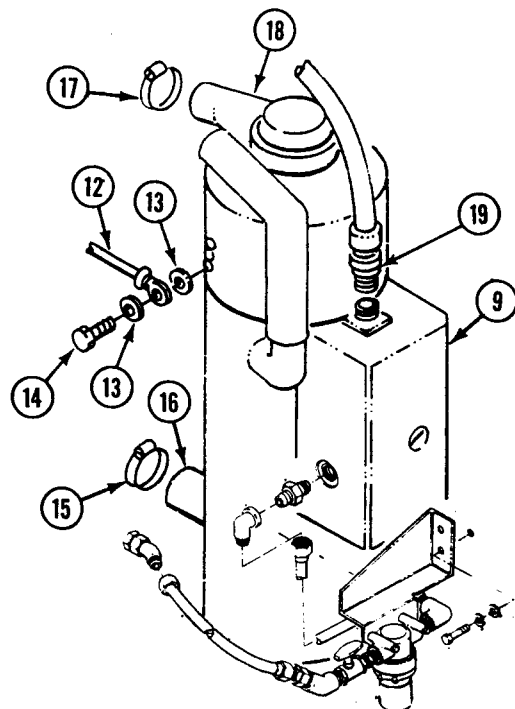


5. INSTALL BRACKET (1) WITH FILTER (2) AND FUEL HOSES (3), (4) ON BULKHEAD. SECURE WITH TWO SCREWS (5), WASHERS (6), AND NEW LOCK WASHERS (7).
6. INSTALL NIPPLE (8) IN HEATER.

7. INSTALL ELBOW (10) ON NIPPLE (8).
8. CONNECT FUEL HOSE (4) FROM OUT PORT OF FILTER (2) TO ELBOW (10) ON HEATER.
9. CONNECT FUEL HOSE (3) FROM IN PORT OF FILTER (2) TO FITTING (11) ON BULKHEAD.



10. INSTALL GROUND STRAP (12) ON HEATER (9). SECURE WITH TWO NEW LOCK WASHERS (13) AND SCREW (14).
11. TIGHTEN CLAMP (15) ON HEATER EXHAUST PIPE (16).
12. TIGHTEN CLAMP (17) ON HEATER INTAKE PIPE (18).
13. CONNECT HEATER WIRING HARNESS (19) TO HEATER (9).



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**REPLACE PERSONNEL HEATER ASSEMBLY — Continued**

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**0371 00**

14. ROTATE TURRET TO 6400 MILS OR AS NEEDED. See TM 9-2350-366-10-2.
15. INSTALL HEATER HOSE ON PLENUM (WP 0369 00).
16. INSTALL POWER PLANT REAR ACCESS PANEL (WP 0308 00).
17. CONNECT BATTERY GROUND STRAP (WP 0237 00).
18. START HEATER. See TM 9-2350-366-10-1. CHECK HEATER FOR PROPER OPERATION. TURN HEATER OFF.

**END OF TASK**





**REPAIR PERSONNEL HEATER CONTROL BOX**

**0372 00**

**THIS WORK PACKAGE COVERS:**

- Disassembly (page 0372 00-1).
- Repair or Replacement (page 0372 00-4).
- Assembly (page 0372 00-5).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Multimeter (WP 0397 00, Item 30)

References

TM 9-2350-366-10-1

Materials/Parts

- Lockwasher (9)

Equipment Condition

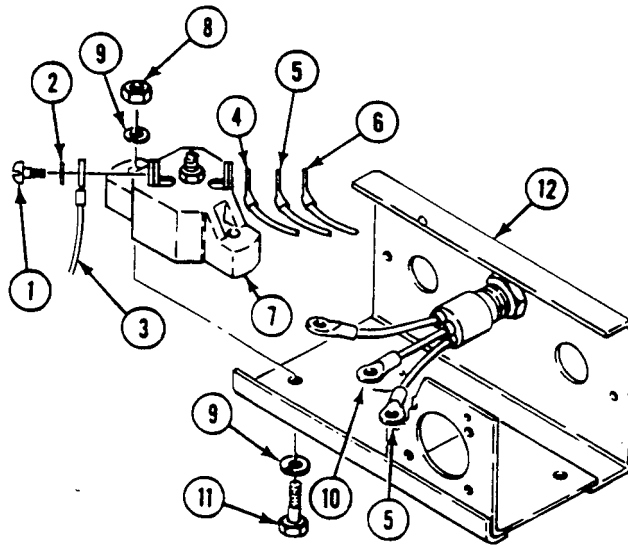
Heater control box removed (WP 0373 00)

**DISASSEMBLY**

**NOTE**

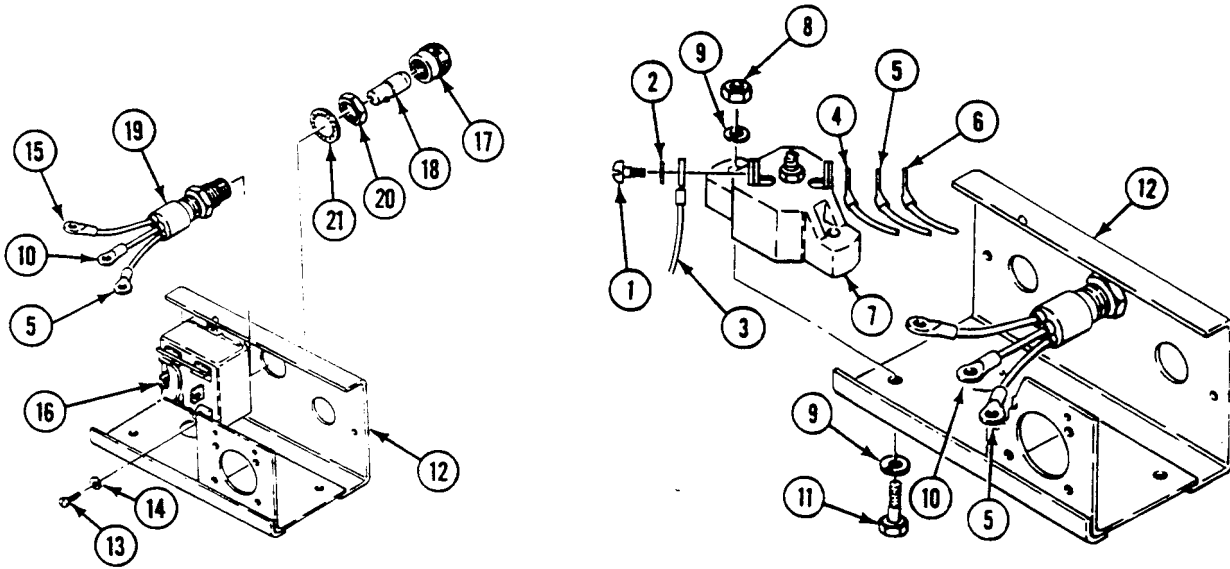
**Tag all electrical leads before removing.**

1. REMOVE CIRCUIT BREAKER (7) FROM CONTROL BOX (12).
  - a. Remove two screws (1), lockwashers (2), lead 16 (3) from one terminal, and lead 17-D (4), lead 17-3 (5), and jumper 15-17 (6) from other terminal on circuit breaker (7).
  - b. Remove two nuts (8), four lockwashers (9), ground lead (10), two screws (11), and circuit breaker (7) from control box (12). Discard lockwashers.



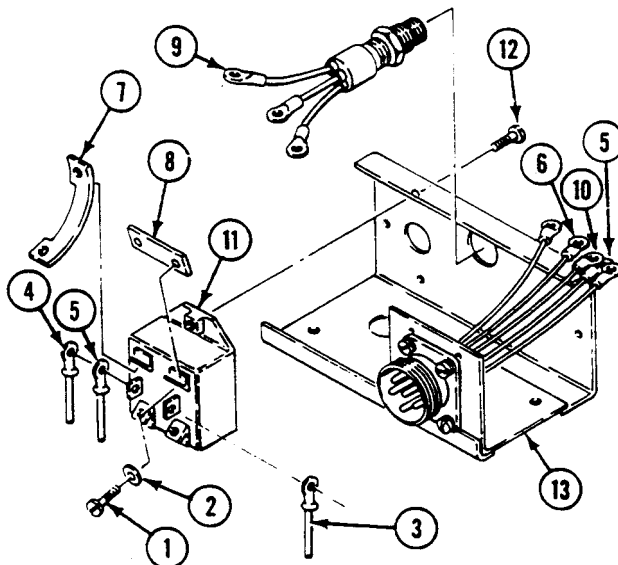
2. REMOVE INDICATOR LIGHT ASSEMBLY (19) FROM CONTROL BOX (12).

- a. Remove nut (8), lockwasher (9), and ground lead (10) from circuit breaker (7) mounting screw (11). Discard lockwasher.
- b. Remove screw (1), lockwasher (2), and lead 17-3 (5) from circuit breaker (7).
- c. Remove screw (13), lockwasher (14), and lead 19-2 (15) from RUN-OFF-START switch (16).
- d. Unscrew cap (17) and remove bulb (18) from light assembly (19).
- e. Remove nut (20), lockwasher (21), and light assembly (19) from control box (12).

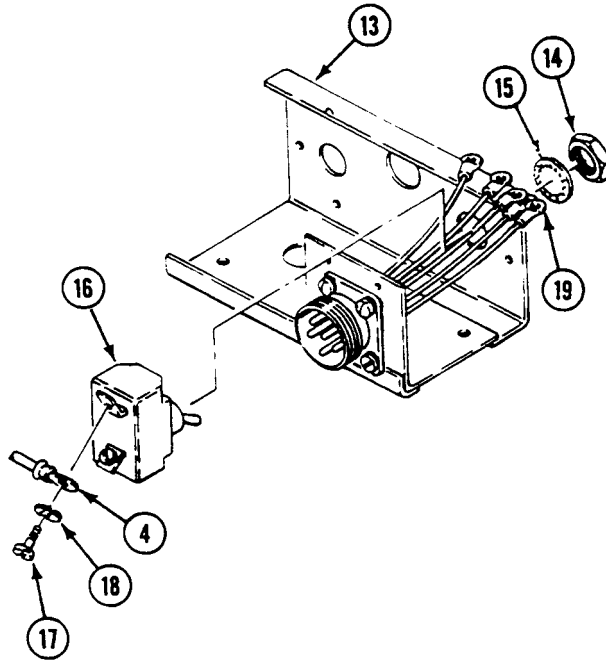


3. REMOVE RUN-OFF-START SWITCH (11) FROM CONTROL BOX (13).

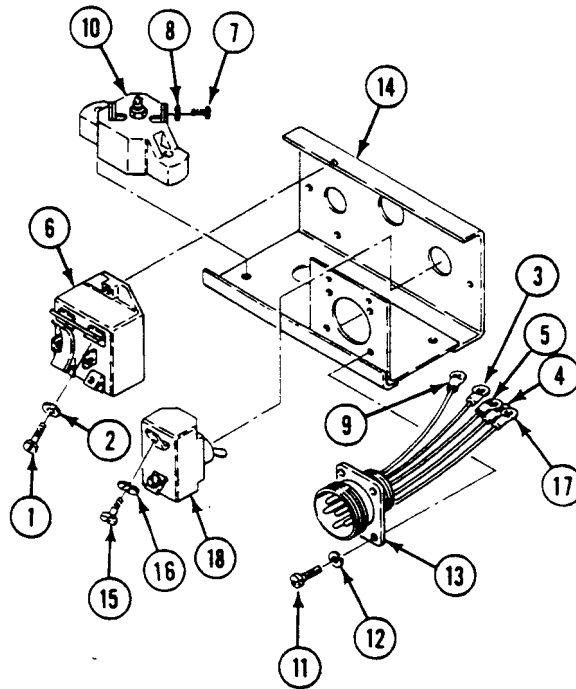
- a. Remove six screws (1), lockwashers (2), jumper 15-17 (3), jumper 13-20 (4), lead 20-C (5), lead 14-A (6), jumper 21-18 (7), jumper 21-14 (8), lead 19-2 (9), and lead 19-E (10) from RUN-OFF-START switch (11).
- b. Remove two screws (12) and RUN-OFF-START switch (11) from control box (13).



4. REMOVE HI-LO HEAT SWITCH (16) FROM CONTROL BOX (13).
  - a. Remove nut (14), lockwasher (15), instruction plate (if applicable), and HI-LO switch (16) from control box (13). Discard lockwasher.
  - b. Remove two screws (17), lockwashers (18), jumper 13-20 (4), and lead 12-B (19) from HI-LO switch (16).



5. REMOVE RECEPTACLE (13) FROM CONTROL BOX. (14).
  - a. Remove three screws (1), lockwashers (2), lead 14-A (3), lead 20-C (4), and lead 19-E (5) from RUN-OFF-START switch (6).
  - b. Remove screw (7), lockwasher (8), and lead 17-D (9) from circuit breaker (10).
  - c. Remove four screws (11), lockwashers (12), and receptacle (13) from control box (14). Discard lockwashers.
  - d. Remove screw (15), lockwasher (16), and lead 12-B (17) from HI-LO switch (18).



## REPAIR OR REPLACEMENT

1. CHECK CIRCUIT BREAKER. SEE TROUBLESHOOTING (WP 0067 00). REPLACE BAD CIRCUIT BREAKER.
2. CHECK INDICATOR LIGHT ASSEMBLY AND BULB. SEE TROUBLESHOOTING (WP 0067 00). REPLACE BAD LIGHT OR BULB.
3. CHECK RUN-OFF-START SWITCH AND HI-LO SWITCH. SEE TROUBLESHOOTING (WP 0067 00). REPLACE BAD SWITCH.
4. CHECK RECEPTACLE FOR CONTINUITY FROM PINS TO LEAD ENDS. REPLACE DAMAGED TERMINAL LUGS (WP 0238 00). IF PINS ARE DAMAGED, NOTIFY SUPERVISOR.

ASSEMBLY

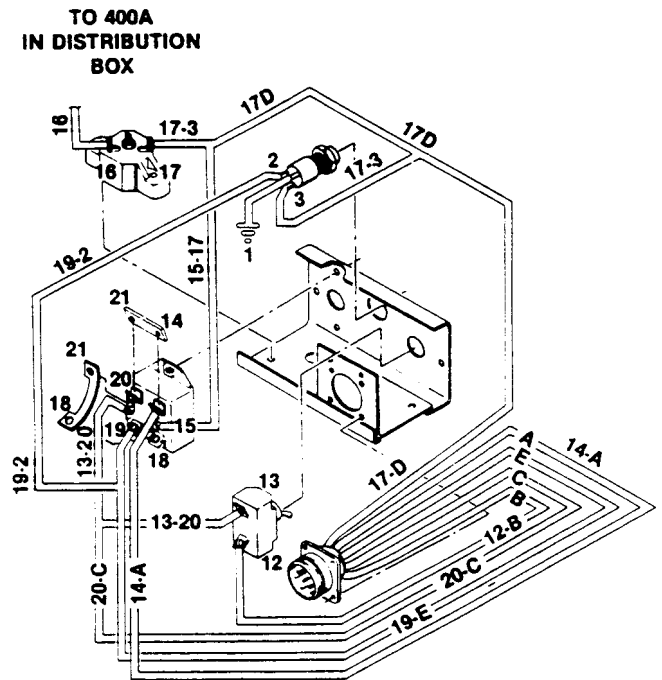
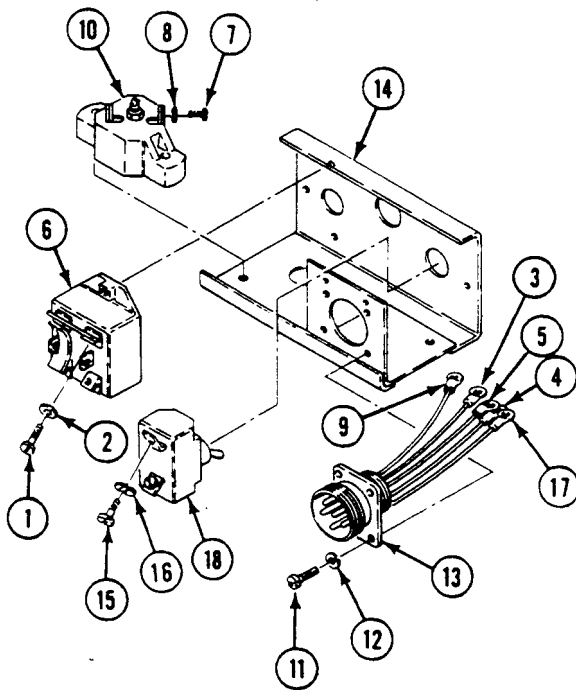
NOTE

Before connecting electrical leads, check tags and wiring diagram below to verify proper connection.

NOTE

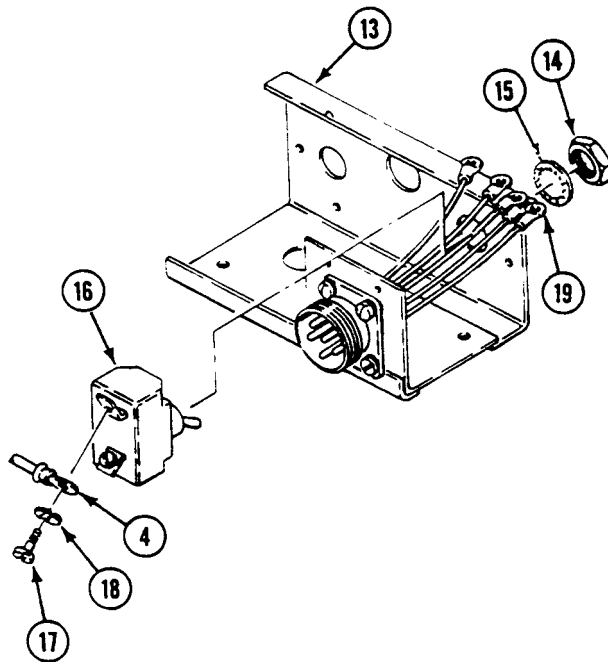
Make sure key in receptacle is at the top.

1. INSTALL RECEPTACLE (13) IN CONTROL BOX (14).
  - a. Install receptacle (13) in control box (14). Secure with four new lockwashers (12) and screws (11).
  - b. Install lead 17-D (9) on circuit breaker (10). Secure with lockwasher (8) and screw (7).
  - c. Install lead 12-B (17) on HI-LO switch (18). Secure with lockwasher (16) and screw (15).
  - d. Install lead 19-E (5), lead 20-C (4), and lead 14-A (3) on RUN-OFF-START switch (6). Secure with three lockwashers (2) and screws (1).



**NOTE****Switch is marked ON and OFF.**

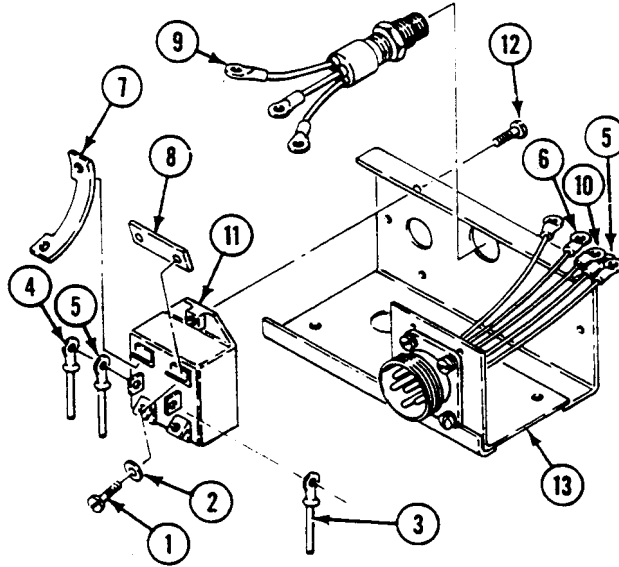
2. INSTALL HI-LO HEAT SWITCH (16) IN CONTROL BOX (13).
  - a. Install switch (16) in control box (13) with ON at the top.
  - b. Install jumper 13-20 (4) and lead 12-B (19) on switch (16). Secure with two lockwashers (18) and screws (17).
  - c. Install instruction plate on switch (if applicable). Secure plate and switch with new lockwasher (15) and nut (14).



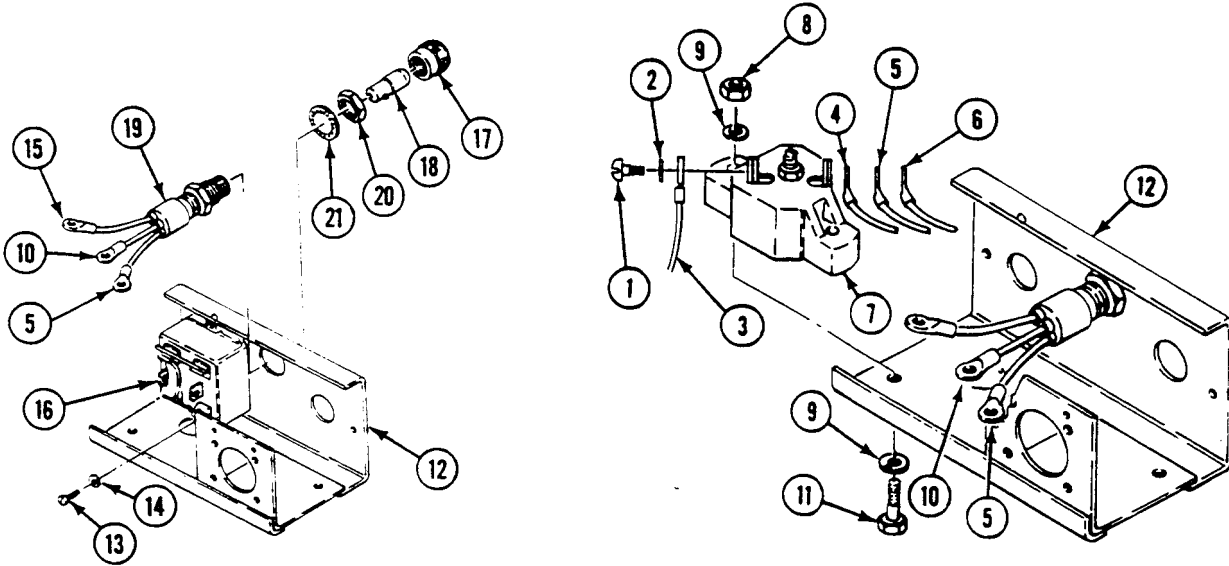
**NOTE**

**Start switch has locked RUN position and spring-loaded START position.**

3. INSTALL RUN-OFF-START SWITCH (11) IN CONTROL BOX (13).
  - a. Install switch (11) in control box (13) with locked position at the top. Secure with two screws (12).
  - b. Install lead 19-E (10), lead 19-2 (9), jumper 21-14 (8), jumper 21-18 (7), lead 14-A (6), lead 20-C (5), jumper 13-20 (4), and jumper 15-17 (3) on RUN-OFF-START switch (11). Secure with six lockwashers (2) and screws (1).

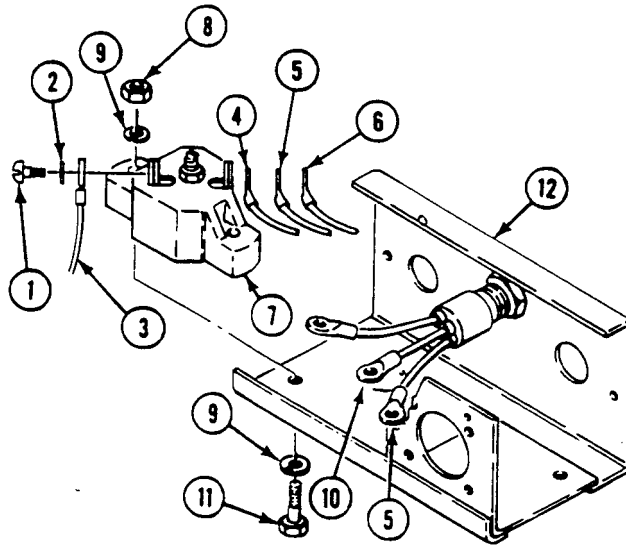


4. INSTALL INDICATOR LIGHT ASSEMBLY (19) IN CONTROL BOX (12).
  - a. Install light assembly (19) in control box (12). Secure with lockwasher (21) and nut (20).
  - b. Install bulb (18) and cap (17) in light assembly (19).
  - c. Install lead 19-2 (15) on RUN-OFF-START switch (16). Secure with lockwasher (14) and screw (13).
  - d. Install lead 17-3 (5) on circuit breaker (7). Secure with lockwasher (2) and screw (1).
  - e. Install ground lead (10) on circuit breaker (7) mounting screw (11). Secure with new lockwasher (9) and nut (8).





5. INSTALL CIRCUIT BREAKER (7) IN CONTROL BOX (12).
  - a. Install circuit breaker (7) in control box (12). Secure with four new lockwashers (9), two screws (11), ground lead (10), and two nuts (8).
  - b. Install lead 17-D (4), lead 17-3 (5), and jumper 15-17 (6) on one terminal, and lead 16 (3) on other terminal of circuit breaker (7). Secure with two lockwashers (2) and screws (1).



6. INSTALL HEATER CONTROL BOX (WP 0373 00).

**END OF TASK**



**REPLACE PERSONNEL HEATER CONTROL BOX**

**0373 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0373 00-1).
- Repair or Replacement (page 0373 00-1).
- Installation (page 0373 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Materials/Parts

Lock washer (2)

Vehicle blocked (TM 9-2350-366-10-1)

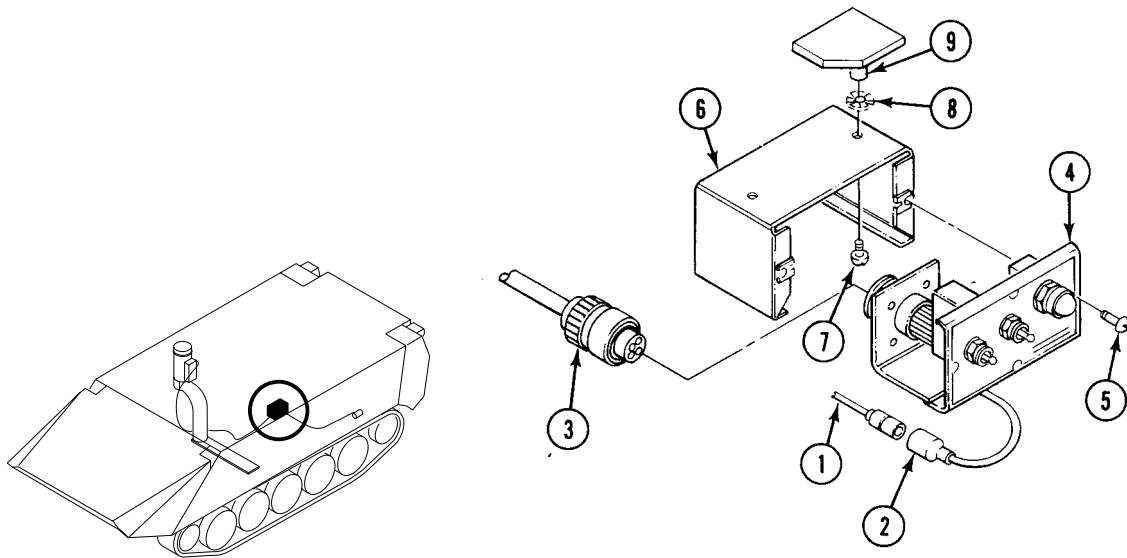
Personnel Required

Unit Mechanic 63T10

Battery ground strap disconnected (WP 0237 00)

**REMOVAL**

1. DISCONNECT CIRCUIT 400 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), LOCK WASHERS (8), AND CASE (6) FROM HULL WELDNUTS (9). DISCARD LOCK WASHERS.

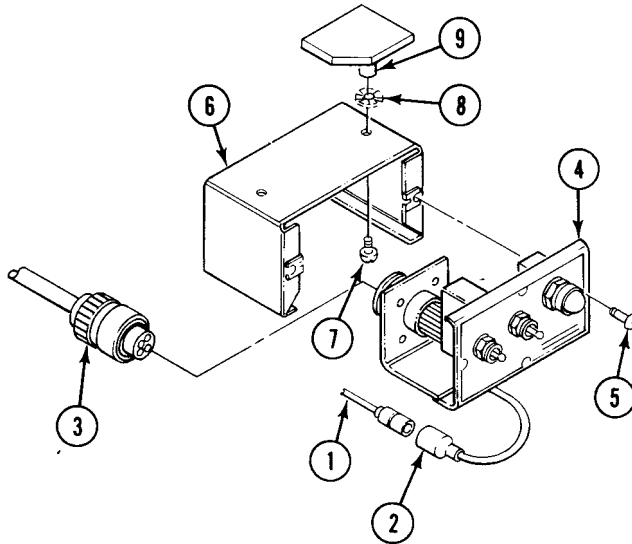


**REPAIR OR REPLACEMENT**

1. CHECK CONTROL BOX AND COMPONENTS. See TROUBLESHOOTING (WP 0067 00). REPLACE BAD COMPONENTS (WP 0372 00).

**INSTALLATION**

1. PLACE CONTROL BOX CASE (6) ON HULL WELDNUTS (9). SECURE WITH TWO NEW LOCK WASHERS (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 400 LEAD (1) TO CONTROL BOX LEAD (2).



5. CONNECT BATTERY GROUND STRAP (WP 0237 00).
6. START HEATER. See TM 9-2350-366-10-1. CHECK THAT CONTROL BOX WORKS RIGHT. TURN HEATER OFF.

**END OF TASK**

**REPLACE FUEL PUMP TO BULKHEAD CONNECTION HOSE**

**0374 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0374 00-1).  
 Installation (page 0374 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Personnel Required

Unit Mechanic 63T10

References

TM 9-2350-366-10-1

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Both main fuel shutoff valves closed  
 (TM 9-2350-366-10-1)

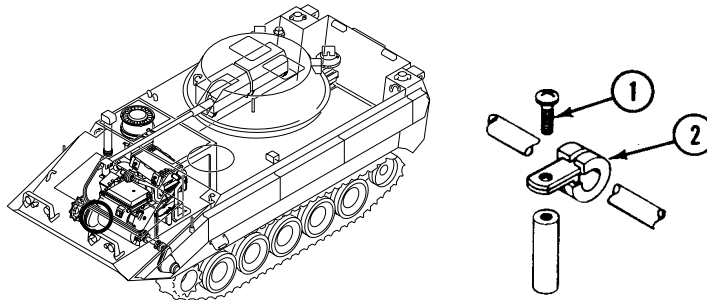
Battery ground lead disconnected (WP 0237 00)

Heater duct removed (WP 0369 00)

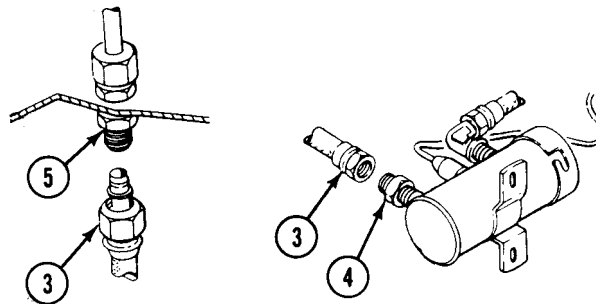
Floor plates removed (WP 0343 00)

**REMOVAL**

1. REMOVE EIGHT SCREWS (1) AND CLAMPS (2) FROM HULL WELDNUTS.



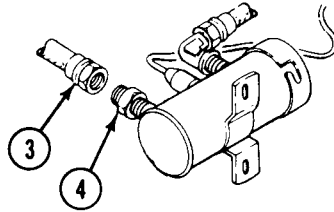
2. DISCONNECT FUEL HOSE (3) FROM FUEL PUMP ADAPTER (4) AND NIPPLE (5). REMOVE HOSE.



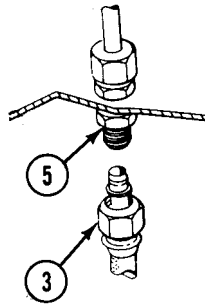
3. REMOVE EIGHT CLAMPS (2) FROM HOSE (3).

**INSTALLATION**

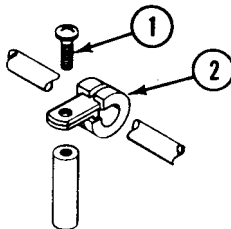
1. CONNECT NEW HOSE (3) TO FUEL PUMP ADAPTER (4).



2. ROUTE HOSE (3) THROUGH HULL OPENINGS. CONNECT HOSE (3) TO NIPPLE (5).



3. INSTALL EIGHT CLAMPS (2) ON HOSE (3) NEXT TO HULL WELDNUTS. SECURE CLAMPS TO WELDNUTS WITH EIGHT SCREWS (1).



4. OPEN BOTH MAIN FUEL SHUTOFF VALVES. See TM 9-2350-366-10-1.
5. CONNECT BATTERY GROUND LEAD (WP 0237 00).
6. BLEED FUEL LINE (WP 0384 00).
7. START HEATER. See TM 9-2350-366-10-1. CHECK ALL FITTINGS FOR LEAKS. TURN HEATER OFF.
8. INSTALL FLOOR PLATES (WP 0343 00).
9. INSTALL HEATER DUCT (WP 0369 00).

**END OF TASK**

**REPLACE PERSONNEL HEATER FUEL FILTER/BRACKET**

**0375 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0375 00-1).  
 Installation (page 0375 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

Sealing compound (WP 0397 00, Item 64)  
 Locknut (2)  
 Lockwasher (2)  
 Packing (4)

Personnel Required

Unit Mechanic 63T10

References

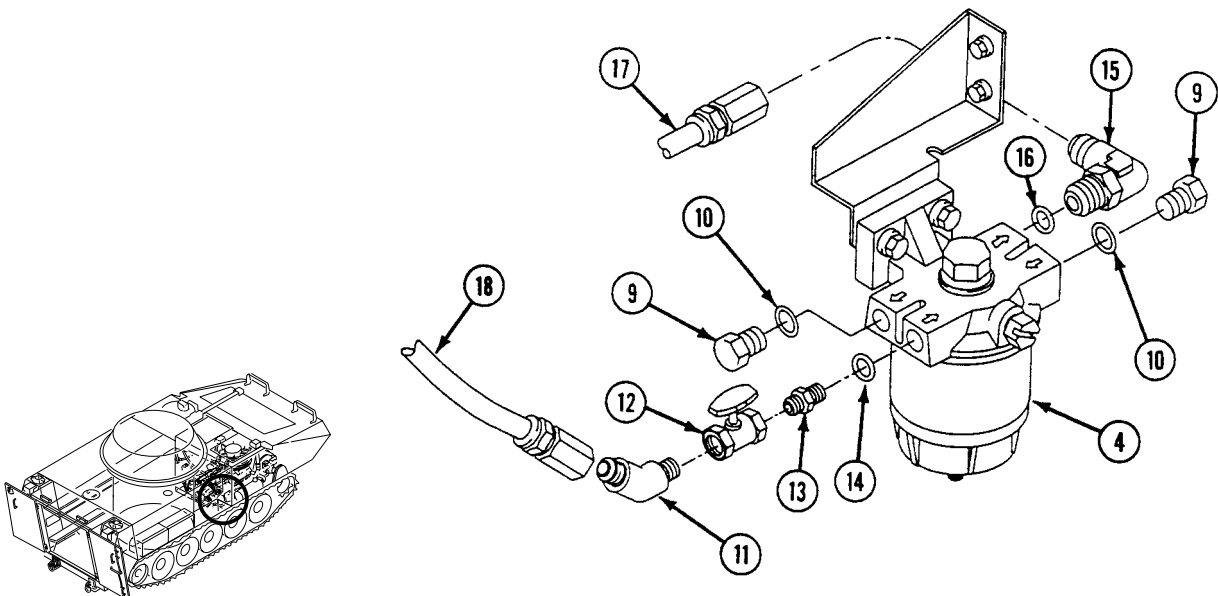
TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Rear personnel doors open (TM 9-2350-366-10-1)  
 Main fuel valve shut off (TM 9-2350-366-10-1)  
 Turret rotated to 3200 mils (TM 9-2350-366-10-2)

**REMOVAL**

1. REMOVE HEATER FUEL INLET HOSE (18) FROM ELBOW (11).
2. REMOVE HEATER FUEL OUTLET HOSE (17) FROM ELBOW (15).
3. REMOVE ELBOW (15) AND PACKING (16) FROM PORT 4 OF FUEL FILTER (4). DISCARD PACKING.
4. REMOVE ELBOW (11), VALVE (12) AND ADAPTER (13) AND PACKING (14) FROM PORT 1 OF FUEL FILTER (4). DISCARD PACKING.
5. REMOVE TWO PLUGS (9), AND PACKINGS (10) FROM PORTS 2 AND 3 OF FUEL FILTER (4). DISCARD PACKINGS.



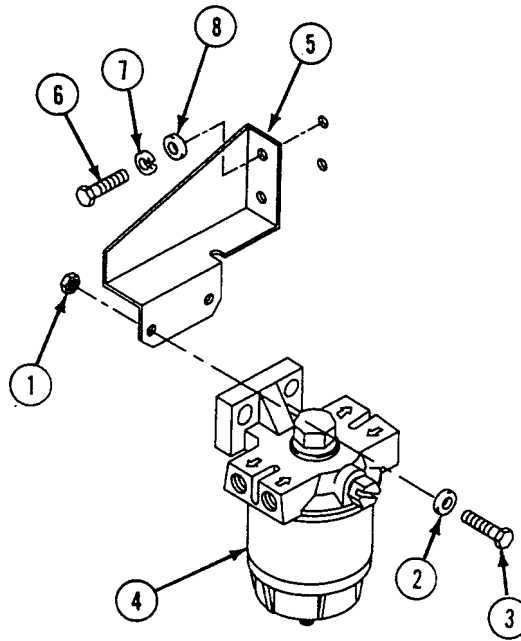
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**REPLACE PERSONNEL HEATER FUEL FILTER/BRACKET — Continued**

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**0375 00**

6. REMOVE TWO LOCKNUTS (1), WASHERS (2), SCREWS (3), AND FUEL FILTER (4) FROM BRACKET (5). DISCARD LOCKNUTS.
7. REMOVE TWO SCREWS (6), LOCKWASHERS (7), WASHERS (8), AND BRACKET (5) FROM HULL. DISCARD LOCKWASHERS.

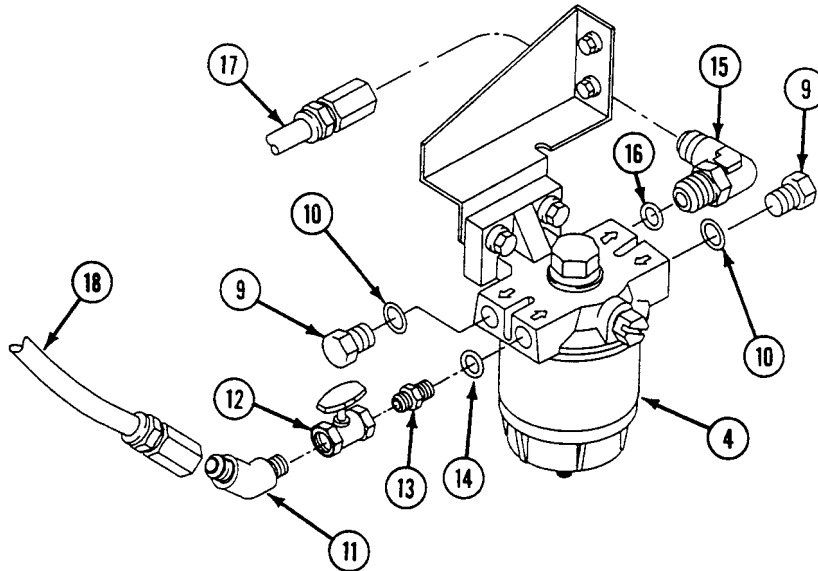
**INSTALLATION**

1. INSTALL BRACKET (5) ON HULL. SECURE WITH TWO SCREWS (6), NEW LOCKWASHERS (7), AND WASHERS (8).
2. INSTALL FUEL FILTER (4) ON BRACKET (5) WITH PORT 4 FACING HULL. SECURE WITH TWO SCREWS (3), WASHERS (2), AND NEW LOCKNUTS (1).



**REPLACE PERSONNEL HEATER FUEL FILTER/BRACKET — Continued****0375 00**

3. INSTALL TWO PLUGS (9), AND NEW PACKINGS (10), IN PORTS 2 AND 3 OF FUEL FILTER (4).
4. INSTALL ELBOW (11) VALVE (12) ADAPTER (13). AND NEW PACKING (14) IN PORT 1 OF FUEL FILTER (4). APPLY SEALING COMPOUND TO EXTERNAL PIPE THREADS OF ELBOW AND ADAPTER.
5. INSTALL ELBOW (15) AND NEW PACKING (16) IN PORT 4 OF FUEL FILTER (4).
6. INSTALL OUTLET HOSE (17) ON ELBOW (15).
7. INSTALL INLET HOSE (18) ON ELBOW (11).



8. ROTATE TURRET TO 6400 MILS OR AS NEEDED. See TM 9-2350-366-10-2.
9. BLEED AIR FROM FUEL LINES (WP 0384 00).
10. START HEATER. See TM 9-2350-366-10-1. CHECK FOR LEAKS. TURN HEATER OFF.
11. START ENGINE. See TM 9-2350-366-10-1.
12. CLOSE AND LOCK REAR PERSONNEL DOORS. See TM 9-2350-366-10-1.
13. STOP ENGINE. See TM 9-2350-366-10-1.

**END OF TASK**



**REPLACE PERSONNEL HEATER FUEL PUMP**

**0376 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0376 00-1).  
 Installation (page 0376 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Rear personnel doors open (TM 9-2350-366-10-1)  
 Heater fuel pump shutoff valve closed  
 (TM 9-2350-366-10-1)  
 Battery ground strap disconnected (WP 0237 00)  
 Rear floor plate removed (WP 0343 00)

Materials/Parts

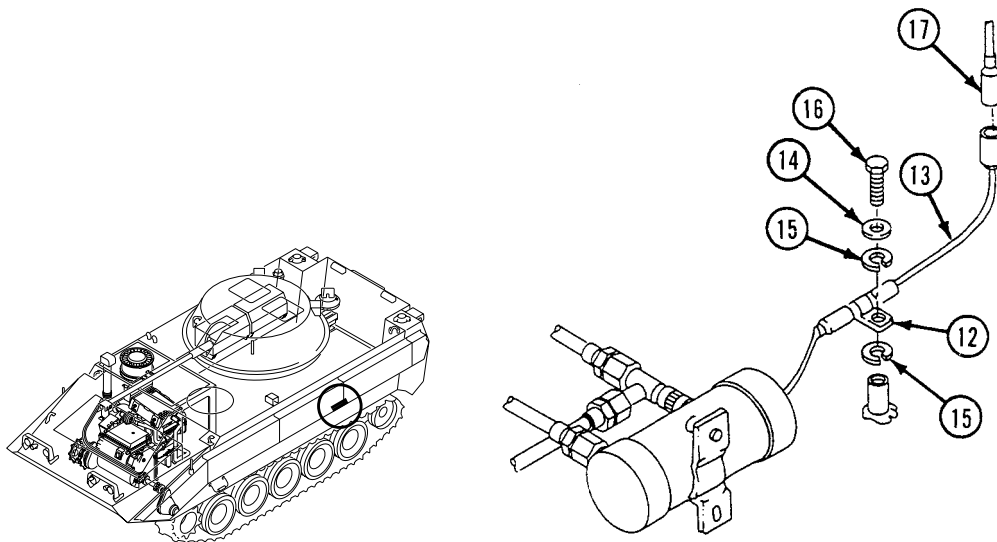
Sealing compound (WP 0399 00, Item 55)  
 Lockwasher (6)

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

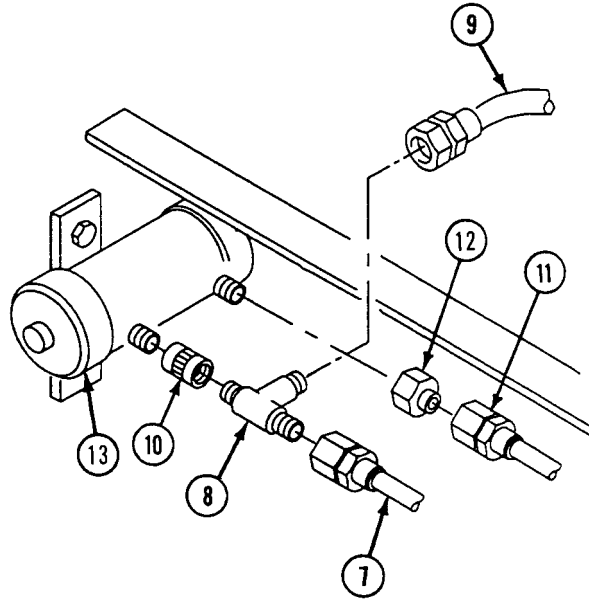
1. DISCONNECT CIRCUIT 402 LEAD (17) FROM PUMP LEAD (13).
2. REMOVE SCREW (16), TWO LOCKWASHERS (15), WASHER (14), AND CLAMP (12) FROM HULL WELDNUT. DISCARD LOCKWASHERS.



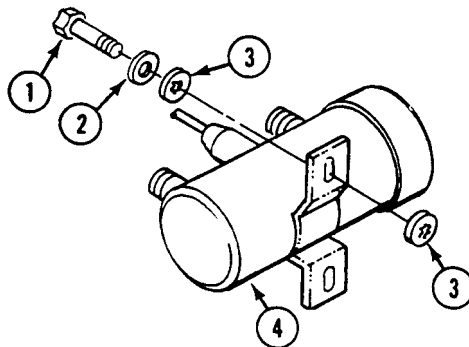
REPLACE PERSONNEL HEATER FUEL PUMP — Continued

0376 00

3. DISCONNECT FUEL SUPPLY HOSE (7) FROM TEE (8).
4. IF ENGINE COOLANT HEATER IS INSTALLED, REMOVE FUEL SUPPLY LINE (9) FROM TEE (8). REMOVE TEE AND PIPE COUPLING (10) FROM FUEL PUMP (13).
5. DISCONNECT FUEL HOSE (11) FROM ADAPTER (12). REMOVE ADAPTER FROM FUEL PUMP (13).

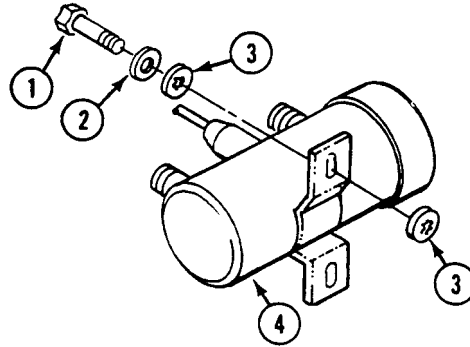


6. REMOVE TWO SCREWS (1), TWO WASHERS (2), FOUR LOCKWASHERS (3), AND FUEL PUMP (4) FROM BULKHEAD BRACKET. DISCARD LOCKWASHERS.

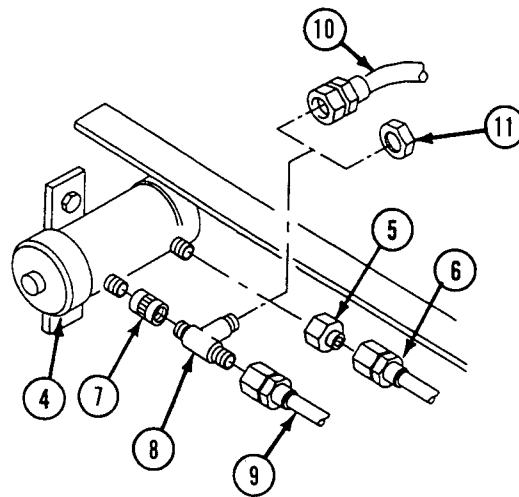


**INSTALLATION**

1. PLACE FUEL PUMP (4) ON BULKHEAD BRACKET. SECURE WITH FOUR NEW LOCKWASHERS (3), TWO WASHERS (2), AND SCREWS (1).



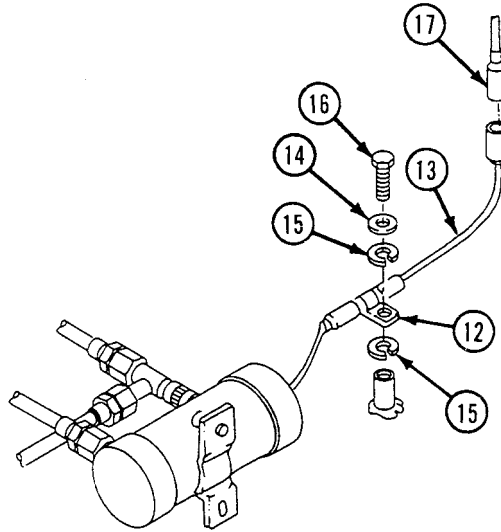
2. APPLY LIGHT COAT OF SEALING COMPOUND TO ALL EXTERNAL TAPERED THREADS. DO NOT APPLY SEALANT BEYOND SMALL END OF TAPERED THREADS.
3. INSTALL ADAPTER (5) ON FUEL PUMP (4). INSTALL HOSE (6) ON ADAPTER.
4. INSTALL PIPE COUPLING (7) AND TEE (8) ON FUEL PUMP (4).
5. INSTALL FUEL SUPPLY HOSE (9) ON TEE (8).
6. IF ENGINE COOLANT HEATER IS INSTALLED, INSTALL FUEL SUPPLY HOSE (10) ON TEE (8). IF ENGINE COOLANT HEATER IS NOT INSTALLED, INSTALL CAP (11).



**REPLACE PERSONNEL HEATER FUEL PUMP — Continued**

**0376 00**

7. ALIGN CLAMP (12) ON FUEL PUMP LEAD (13) WITH HULL WELDNUT. SECURE WITH WASHER (14), TWO NEW LOCKWASHERS (15), AND SCREW (16).
8. CONNECT FUEL PUMP LEAD (13) TO CIRCUIT 402 LEAD (17).



9. CONNECT BATTERY GROUND STRAP (WP 0237 00).
10. OPEN HEATER FUEL SHUTOFF VALVE. See TM 9-2350-366-10-1.
11. BLEED FUEL LINE (WP 0384 00).
12. START HEATER. See TM 9-2350-366-10-1. CHECK FOR FUEL LEAKS. TURN HEATER OFF.
13. INSTALL REAR FLOOR PLATE (WP 0343 00).
14. START ENGINE. See TM 9-2350-366-10-1.
15. CLOSE AND LOCK REAR PERSONNEL DOORS. See TM 9-2350-366-10-1
16. STOP ENGINE See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE PERSONNEL HEATER FUEL PUMP HOSE**

**0377 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0377 00-1)  
 Installation (page 0377 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

Sealing compound (WP 0399 00, Item 55)

Personnel Required

Unit Mechanic 63T10

References

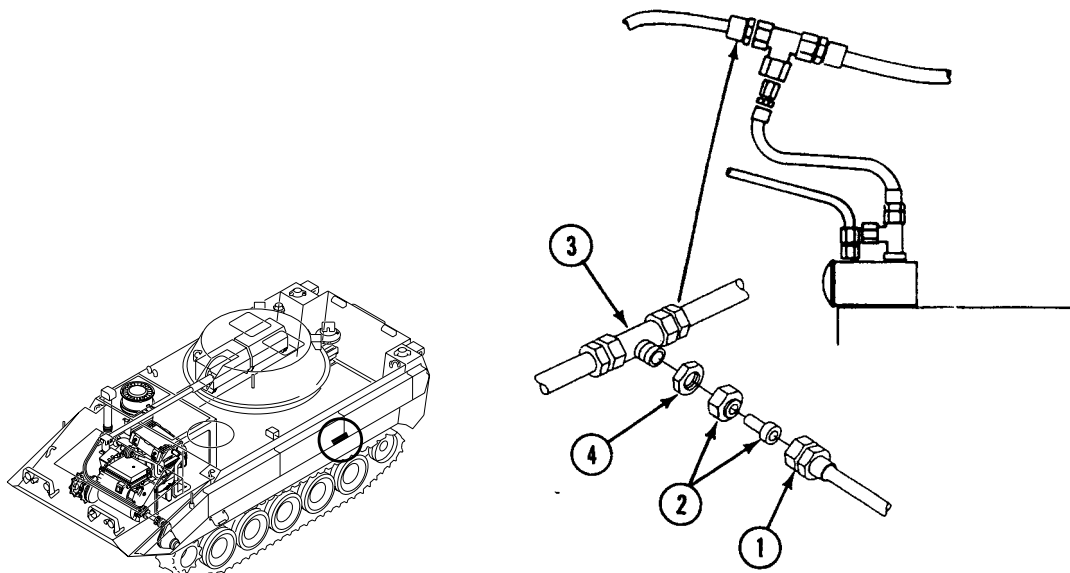
TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Equipment Condition

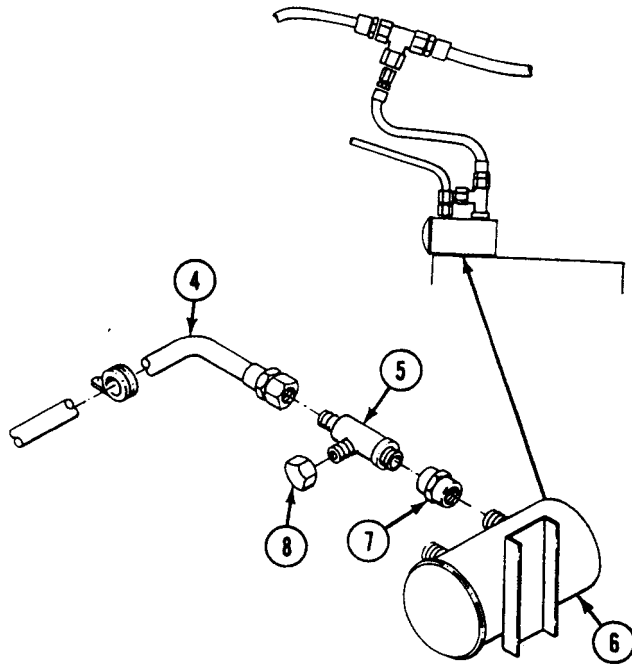
Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Rear personnel doors open (TM 9-2350-366-10-1)  
 Fuel supply valves shut off (TM 9-2350-366-10-1)  
 Rear floor plate removed (WP 0343 00)  
 Turret rotated to 3200 mils (TM 9-2350-366-10-2)

**REMOVAL**

1. REMOVE HOSE (1), NUT (4), AND REDUCER (2) FROM TEE (3).



2. REMOVE HOSE (4) FROM TEE (5) ON FUEL PUMP (6).
3. REMOVE TEE (5) FROM COUPLING (7).
4. REMOVE COUPLING (7) FROM FUEL PUMP (6).
5. REMOVE CAP (8) FROM TEE (5).

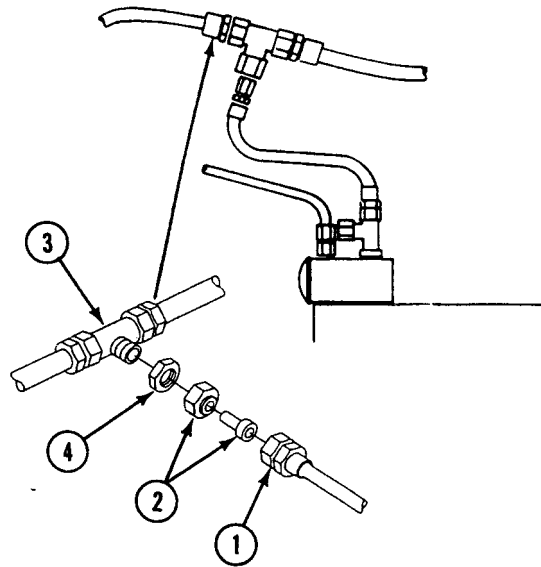


## INSTALLATION

1. INSTALL COUPLING (7) ON FUEL PUMP (6).
2. APPLY SEALING COMPOUND TO EXTERNAL THREADS OF TEE (5).
3. INSTALL TEE (5) ON COUPLING (7).
4. INSTALL CAP (8) ON TEE (5).
5. INSTALL HOSE (4) ON TEE (5).



6. INSTALL REDUCER (2) AND NUT (4) ON TEE (3).
7. INSTALL HOSE (1) ON REDUCER (2).



8. ROTATE TURRET TO 6400 MILS OR AS NEEDED. See TM 9-2350-366-10-2.
9. OPEN FUEL SUPPLY VALVES. See TM 9-2350-366-10-1.
10. INSTALL REAR FLOOR PLATE (WP 0343 00).
11. START ENGINE. See TM 9-2350-366-10-1.
12. CLOSE AND LOCK REAR PERSONNEL DOORS. See TM 9-2350-366-10-1.
13. STOP ENGINE. See TM 9-2350-366-10-1.

**END OF TASK**



**REPLACE HEATER/FILTER FUEL SUPPLY HOSES**

**0378 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0378 00-1).  
 Installation (page 0378 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Main fuel shut-off valves turned off  
 (TM 9-2350-366-10-1)  
 Turret rotated to 3200 mils (TM 9-2350-366-10-2)

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Personnel Required

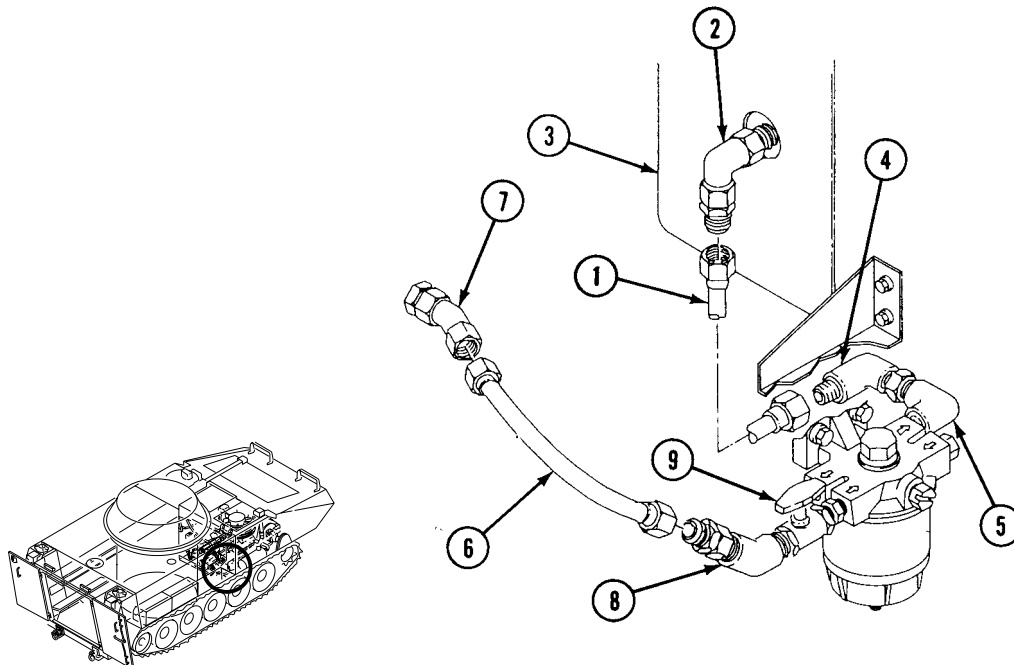
Unit Mechanic 63T10

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

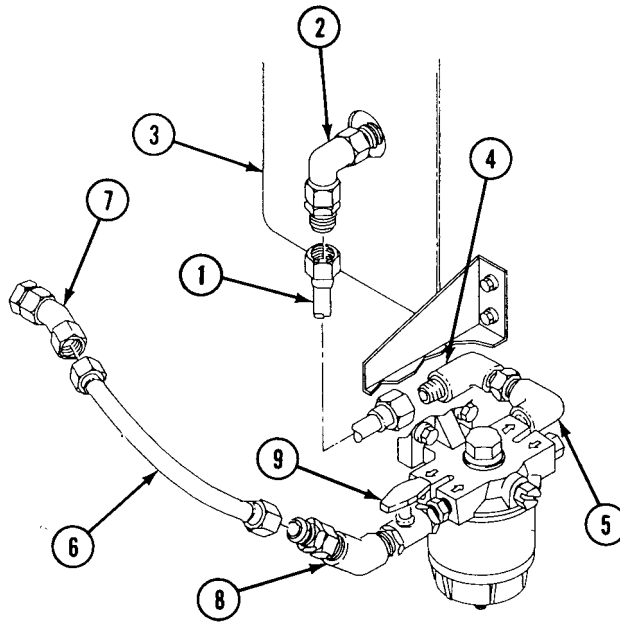
**REMOVAL**

1. REMOVE HEATER FUEL SUPPLY HOSE (1) FROM FUEL INLET ELBOW (2) ON HEATER (3) AND FROM ELBOW (4) ON FUEL FILTER OUTLET ELBOW (5).
2. REMOVE HEATER FUEL FILTER SUPPLY HOSE (6) FROM FUEL SUPPLY TUBE ELBOW (7) ON POWER PLANT COMPARTMENT BULKHEAD AND FUEL SHUT-OFF VALVE INLET ELBOW (8) ON VALVE (9).



**INSTALLATION**

1. CONNECT HEATER FUEL FILTER SUPPLY HOSE (6) TO FUEL SUPPLY TUBE ELBOW (7) AND FUEL SHUT-OFF VALVE INLET ELBOW (8). TIGHTEN HOSE NUTS.
2. CONNECT HEATER FUEL SUPPLY HOSE (1) TO FUEL INLET ELBOW (2) AND TO ELBOW (4) ON FUEL FILTER OUTLET ELBOW (5). TIGHTEN HOSE NUTS.



3. ROTATE TURRET TO 6400 MILS OR AS NEEDED. See TM 9-2350-366-10-2.
4. TURN MAIN FUEL SHUT-OFF VALVES ON. See TM 9-2350-366-10-1.
5. TURN HEATER ON. See TM 9-2350-366-10-1. CHECK FOR PROPER OPERATION AND LEAKS.
6. TURN HEATER OFF. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE PERSONNEL HEATER FUEL TUBE****0379 00****THIS WORK PACKAGE COVERS:**

Removal (page 0379 00-1).  
 Installation (page 0379 00-2).

**INITIAL SETUP:**Maintenance Level

Unit

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

Lockwasher

Personnel Required

Unit Mechanic 63T10

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Main fuel tank shutoff valves closed  
(TM 9-2350-366-10-1)Power plant rear access panels removed  
(TM 9-2350-366-10-1)

Rear personnel doors open (TM 9-2350-366-10-1)

Turret rotated to 3200 mils (TM 9-2350-366-10-2)

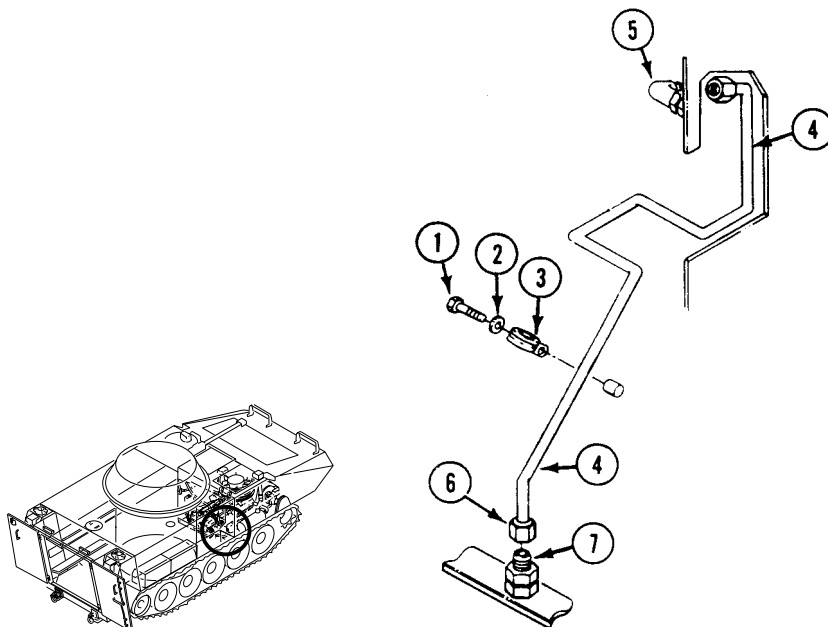
References

TM 9-2350-366-10-1

TM 9-2350-366-10-2

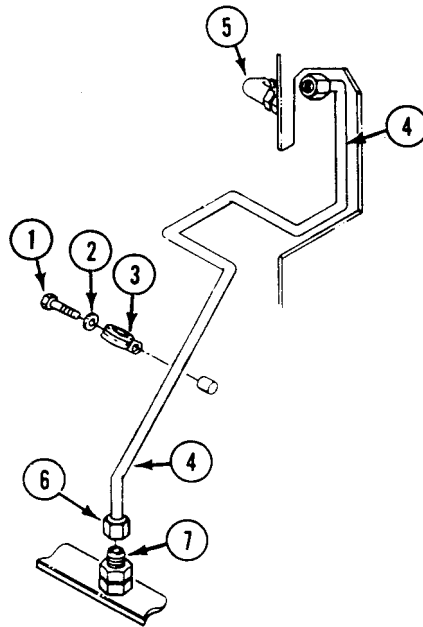
**REMOVAL**

1. REMOVE SCREW (1) AND LOCKWASHER (2) FROM CLAMP (3). DISCARD LOCKWASHER.
2. DISCONNECT HEATER FUEL TUBE (4) FROM FUEL FILTER INLET HOSE ELBOW (5).
3. REMOVE NUT (6) FROM NIPPLE (7). REMOVE TUBE FROM CARRIER.



**INSTALLATION**

1. INSTALL FUEL TUBE CLAMP (3) ON REPLACEMENT TUBE (4).
2. CONNECT TUBE (4) TO HEATER FUEL FILTER INLET HOSE ELBOW (5) AND NIPPLE (7). TIGHTEN NUT (6).
3. SECURE TUBE (4) TO POWER PLANT COMPARTMENT BULKHEAD WITH CLAMP (3), SCREW (1), AND NEW LOCKWASHER (2).



4. ROTATE TURRET TO 6400 MILS OR AS NEEDED. See TM 9-2350-366-10-2.
5. OPEN MAIN FUEL TANK SHUTOFF VALVES. See TM 9-2350-366-10-1.
6. TURN HEATER ON. See TM 9-2350-366-10-1. CHECK FOR PROPER OPERATION AND LEAKS.
7. TURN HEATER OFF. See TM 9-2350-366-10-1.
8. INSTALL POWER PLANT REAR ACCESS PANELS. See TM 9-2350-366-10-1.
9. START ENGINE. See TM 9-2350-366-10-1.
10. STOP ENGINE. See TM 9-2350-366-10-1.
11. CLOSE REAR PERSONNEL DOORS. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE HEATER AIR INTAKE AND EXHAUST PIPES**

**0380 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0380 00-1).
- Installation (page 0380 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

- Gasket (2)
- Gasket (2)
- Grommet
- Locknut (4)

Personnel Required

Unit Mechanic 63T10

References

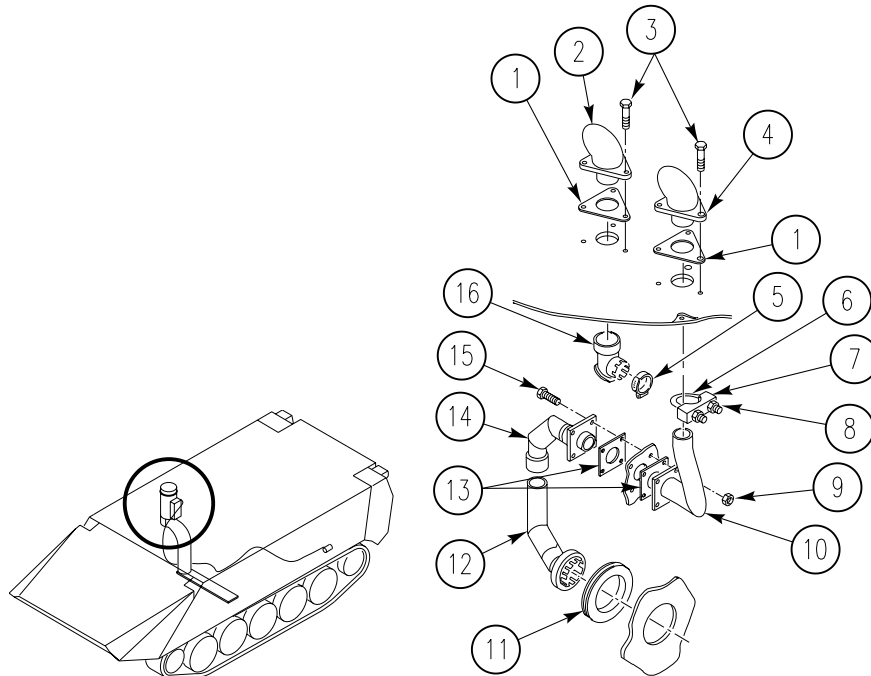
- TM 9-2350-366-10-1
- TM 9-2350-366-10-2

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Battery ground strap disconnected (WP 0237 00)
- Power plant rear access panel removed (WP 0308 00)
- Heater assembly removed (WP 0371 00)
- Turret rotated to 3200 mils (TM 9-2350-366-10-2)

**REMOVAL**

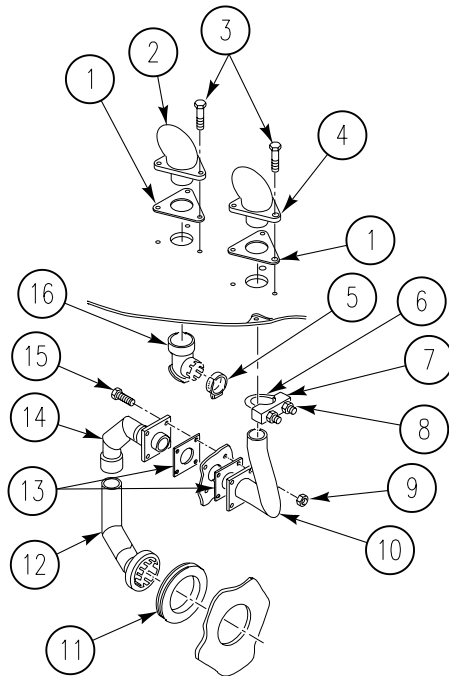
1. REMOVE CLAMP (5) AND REMOVE ELBOW (16) FROM INTAKE ELBOW (2).
2. REMOVE TWO NUTS (8), U-BOLT (6), AND CLAMP (7) FROM EXHAUST PIPE (10).
3. REMOVE SIX SCREWS (3), INTAKE ELBOW (2), EXHAUST ELBOW (4), AND TWO ELBOW GASKETS (1) FROM CARRIER TOP DECK. DISCARD GASKETS.
4. REMOVE FOUR SCREWS (15), LOCKNUTS (9), TWO BULKHEAD GASKETS (13), AND EXHAUST PIPES (12)(14)(10), FROM POWER PLANT BULKHEAD. DISCARD GASKETS AND LOCKNUTS.



5. IF NECESSARY, REMOVE GROMMET (11) FROM POWER PLANT BULKHEAD. DISCARD GROMMET.

**INSTALLATION**

1. IF GROMMET (11) WAS DISCARDED, INSTALL NEW GROMMET IN POWER PLANT BULKHEAD.
2. INSTALL EXHAUST PIPE (12) IN GROMMET (11). INSTALL EXHAUST PIPE (14) ON PIPE (12).
3. ALIGN EXHAUST PIPES (14)(10) AND TWO NEW BULKHEAD GASKETS (13) WITH POWER PLANT BULKHEAD. SECURE WITH FOUR SCREWS (15) AND NEW LOCKNUTS (9).
4. PLACE NEW ELBOW GASKET (1) ON EXHAUST ELBOW (4). INSTALL ELBOW IN TOP DECK.
5. PLACE NEW ELBOW GASKET (1) ON INTAKE ELBOW (2). INSTALL ELBOW IN TOP DECK.
6. SECURE TWO ELBOWS (2)(4) TO TOP DECK WITH SIX SCREWS (3).
7. SECURE PIPE (10) TO EXHAUST ELBOW (4) WITH U-BOLT (6), CLAMP (7), AND TWO NUTS (8).
8. CONNECT ELBOW (16) TO INTAKE ELBOW (2) AND PLACE CLAMP (5) ON INTAKE ELBOW (2).



9. MANUALLY ROTATE TURRET TO 6400 MILS OR AS NEEDED. See TM 9-2350-366-10-2.
10. INSTALL HEATER ASSEMBLY (WP 0371 00).
11. CONNECT BATTERY GROUND STRAP (WP 0237 00).
12. START HEATER. CHECK FOR INTAKE AND EXHAUST LEAKS. TURN HEATER OFF. See TM 9-2350-366-10-1.
13. INSTALL POWER PLANT REAR ACCESS PANEL (WP 0308 00).

**END OF TASK**



**REPLACE FUEL SHUT-OFF VALVE ASSEMBLY**

**0381 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0381 00-1).  
 Installation (page 0381 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Main fuel shut-off valves turned off  
 (TM 9-2350-366-10-1)  
 Turret rotated to 3200 mils (TM 9-2350-366-10-2)

Materials/Parts

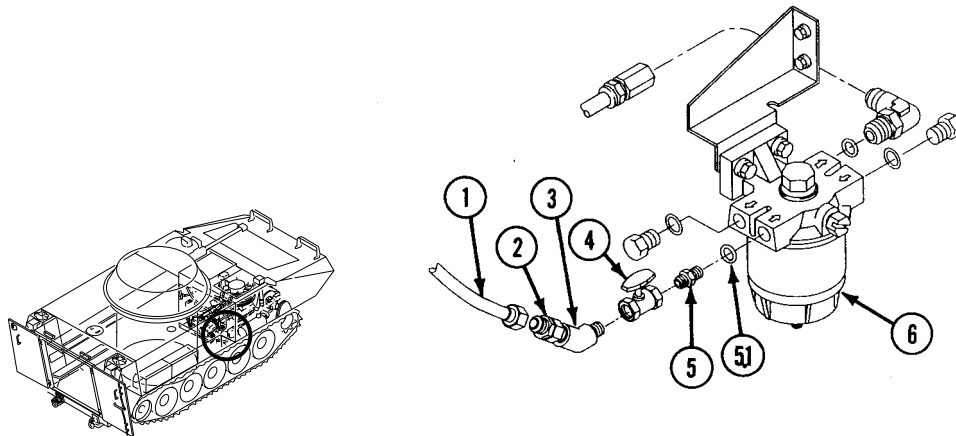
Sealing compound (WP 0399 00, Item 55)  
 Preformed packing

Personnel Required

Unit Mechanic 63T10

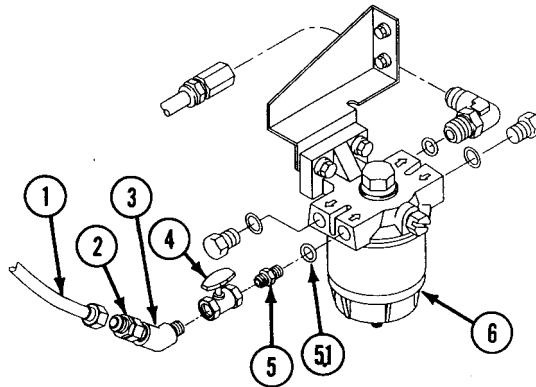
**REMOVAL**

1. REMOVE FUEL FILTER SUPPLY HOSE (1) FROM ADAPTER (2) ON ELBOW (3).
2. REMOVE ADAPTER (2) FROM INLET ELBOW (3).
3. REMOVE INLET ELBOW (3) FROM SHUT-OFF VALVE (4).
4. REMOVE SHUT-OFF VALVE (4), ADAPTER (5), AND PREFORMED PACKING (51) FROM HEATER FUEL FILTER (6).



**INSTALLATION**

1. APPLY THIN LAYER OF SEALING COMPOUND TO EXTERNAL TAPERED THREADS.
2. INSTALL PREFORMED PACKING (51), ADAPTER (5), AND SHUT-OFF VALVE (4) ON HEATER FUEL FILTER (6).
3. INSTALL INLET ELBOW (3) ON SHUT-OFF VALVE (4).
4. INSTALL ADAPTER (2) ON ELBOW (3).
5. INSTALL FUEL FILTER SUPPLY HOSE (1) ON ADAPTER (2).



6. ROTATE TURRET TO 6400 MILS OR AS NEEDED. See TM 9-2350-366-10-2.
7. TURN MAIN FUEL SHUT-OFF VALVES ON. See TM 9-2350-366-10-1.
8. TURN HEATER ON. See TM 9-2350-366-10-1. CHECK FOR PROPER OPERATION AND LEAKS.
9. TURN HEATER OFF. See TM 9-2350-366-10-1.

**END OF TASK**

**SERVICE PERSONNEL HEATER FUEL FILTER**

**0382 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0382 00-1).
- Servicing (page 0382 00-2).
- Installation (page 0382 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

- TM 9-2350-366-10-1
- TM 9-2350-366-10-2

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

- Cleaning compound (WP 0399 00, Item 26)
- Wiping rag (WP 0399 00, Item 64)
- Preformed packing
- Lockwasher (4)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Personnel heater fuel shutoff valve OFF (TM 9-2350-366-10-1)
- Turret rotated to 3200 mils (TM 9-2350-366-10-2)

Personnel Required

Unit Mechanic 63T10

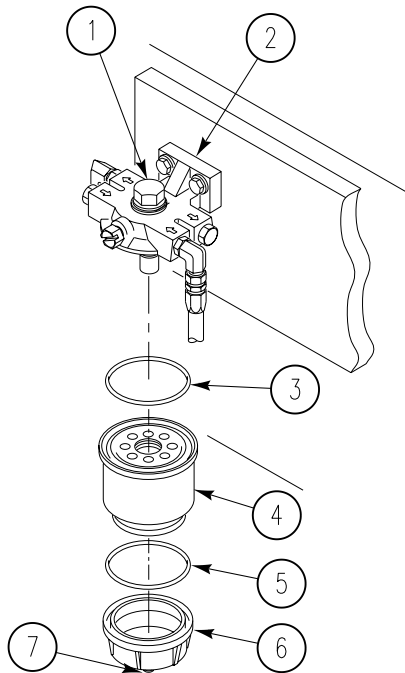
**REMOVAL**

1. DEPRESS PLUNGER (7) UNTIL FLUID IS DRAINED FROM COLLECTOR BOWL (6). WIPE UP SPILLED FUEL.
2. REMOVE COLLECTOR BOWL (6) FROM FILTER ELEMENT (4).

**NOTE**

**Loosen head bolt as instructed. Do not remove head bolt from filter head. Do not discard head gasket.**

3. LOOSEN HEAD BOLT (1) UNTIL FILTER ELEMENT (4) WITH PREFORMED PACKING (5) CAN BE REMOVED FROM FILTER HEAD (2). DO NOT REMOVE AND DO NOT DISCARD HEAD GASKET (3). DISCARD PREFORMED PACKING AND FILTER ELEMENT.



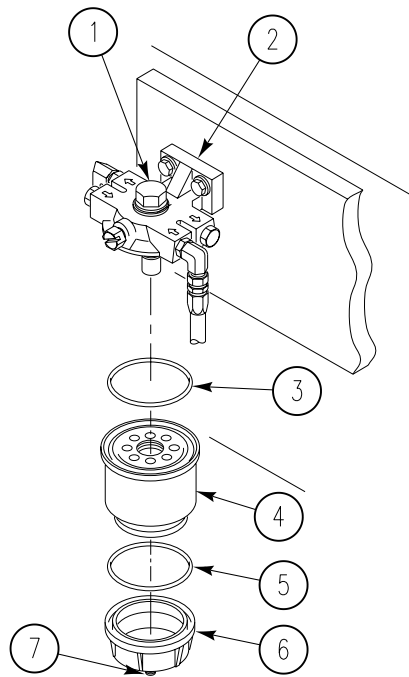
**CLEANING**

**CLEAN, INSPECT, AND REPAIR**

1. CLEAN COLLECTOR BOWL (6) WITH CLEANING COMPOUND AND CLEAN WIPING RAG.

**INSTALLATION**

1. INSTALL NEW PREFORMED PACKING (5) ON NEW FILTER ELEMENT (4).
2. INSTALL COLLECTOR BOWL (6) IN NEW FILTER ELEMENT (4).
3. IF HEAD GASKET (3) WAS REMOVED, POSITION SAME GASKET IN FILTER HEAD (2) OR ON FILTER ELEMENT (4).
4. INSTALL NEW FILTER ELEMENT (4) AND GASKET (3) ON HEAD BOLT (1) AND FILTER HEAD (2).



5. ROTATE TURRET TO 6400 MILS OR AS NEEDED. See TM 9-2350-366-10-2.
6. TURN PERSONNEL HEATER FUEL VALVE ON. See TM 9-2350-366-10-1.
7. TURN PERSONNEL HEATER ON. See TM 9-2350-366-10-1. CHECK FOR LEAKS.
8. TURN PERSONNEL HEATER OFF. See TM 9-2350-366-10-1.

**END OF TASK**

**SERVICE PERSONNEL HEATER FUEL PUMP**

**0383 00**

**THIS WORK PACKAGE COVERS:**

- Disassembly (page 0383 00-1)
- Cleaning (page 0383 00-2).
- Assembly (page 0383 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

References

TM 9-2350-366-10-1

Materials/Parts

Cleaning solvent (WP 0399 00, Item 17)  
Gasket (2)

Equipment Condition

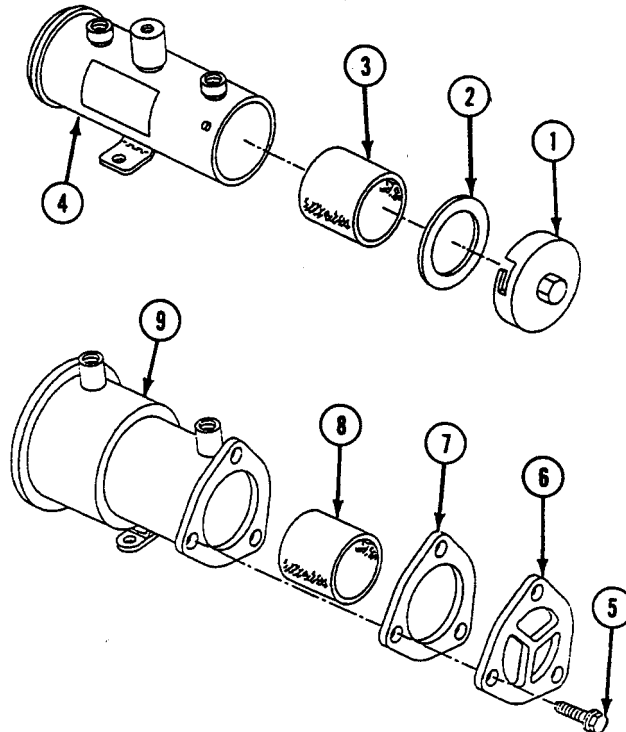
Personnel heater fuel pump removed (WP 0376 00)

**DISASSEMBLY**

**NOTE**

There are two types of fuel pump. For BENDIX/FACET type, do Disassembly Step 1, Cleaning Step 1, and Assembly Step 2. For WALBRO type, do Disassembly Step 2, Cleaning Step 1, and Assembly Step 1.

1. REMOVE COVER (1), GASKET (2), AND STRAINER ELEMENT (3) FROM FUEL PUMP HOUSING (4). DISCARD GASKET.



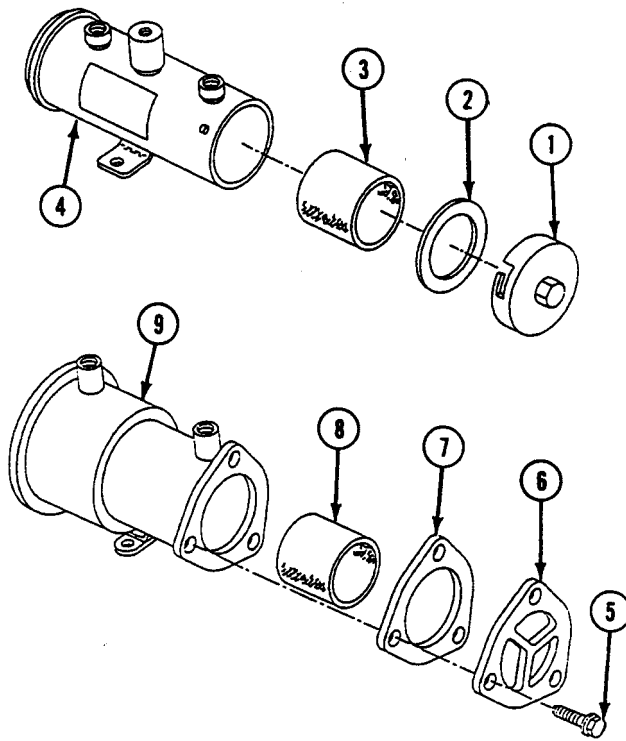
2. REMOVE THREE SCREWS (5), COVER (6), GASKET (7), AND FILTER ELEMENT (8) FROM FUEL PUMP HOUSING (9). DISCARD GASKET.

**CLEANING**

1. CLEAN ELEMENT WITH CLEANING SOLVENT.

**ASSEMBLY**

1. INSTALL CLEAN FILTER ELEMENT (8), NEW GASKET (7), AND COVER (6) ON PUMP HOUSING (9). SECURE WITH THREE SCREWS (5).
2. INSTALL CLEAN STRAINER ELEMENT (3), NEW GASKET (2), AND COVER (1) ON PUMP HOUSING (4).



3. INSTALL PERSONNEL HEATER FUEL PUMP (WP 0376 00).

**END OF TASK**

**BLEED AIR FROM PERSONNEL HEATER FUEL LINES**

**0384 00**

**THIS WORK PACKAGE COVERS:**

Servicing (page 0384 00-1).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1  
 TM 9-2350-366-10-2

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Rear personnel doors open (TM 9-2350-366-10-1)  
 Rear floor plate removed (WP 0343 00)  
 Turret rotated to 3200 mils (TM 9-2350-366-10-2)

Materials/Parts

Wiping rag (WP 0399 00, Item 64)

Personnel Required

Unit Mechanic 63T10

**SERVICING**

**BLEED AIR FROM SYSTEM**

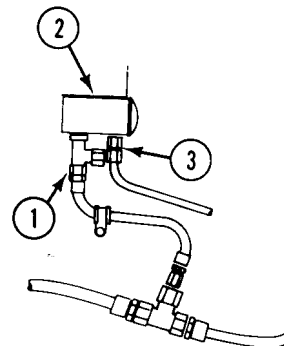
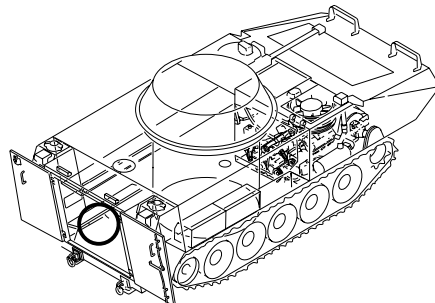
1. TURN ON MAIN FUEL VALVES. See TM 9-2350-366-10-1.
2. TURN ON HEATER FUEL SHUT-OFF VALVE. See TM 9-2350-366-10-1.

**WARNING**

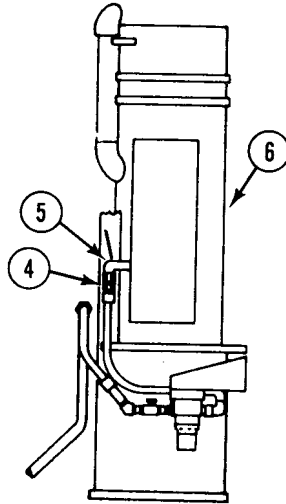


**Diesel fuel can catch fire and seriously injure or kill soldiers and damage or destroy the vehicle. Wipe up fuel spills immediately. Do not smoke near fuel or when working on the fuel system. Disconnect vehicle ground when working on the fuel system.**

3. LOOSEN FUEL INLET LINE (1) AT TEE FITTING ON FUEL PUMP (2). TIGHTEN CONNECTION AS SOON AS FUEL BEGINS TO ESCAPE FROM LINE.
4. LOOSEN FUEL OUTLET LINE (3) AT FUEL PUMP (2). TIGHTEN CONNECTION AS SOON AS FUEL BEGINS TO ESCAPE FROM LINE.



5. WIPE UP SPILLED FUEL. TURN HEATER ON. See TM 9-2350-366-10-1.
6. LOOSEN FUEL LINE (4) AT INLET ELBOW (5) OF HEATER (6). TIGHTEN CONNECTION AS SOON AS FUEL BEGINS TO ESCAPE FROM LINE.



7. WIPE UP SPILLED FUEL. CHECK HEATER FOR PROPER OPERATION AND FUEL LEAKS.
8. TURN HEATER OFF. See TM 9-2350-366-10-1.
9. ROTATE TURRET TO 6400 MILS OR AS NEEDED. See TM 9-2350-366-10-2.
10. INSTALL REAR FLOOR PLATE (WP 0343 00).
11. START ENGINE. See TM 9-2350-366-10-1.
12. CLOSE AND LOCK REAR PERSONNEL DOORS. See TM 9-2350-366-10-1.
13. STOP ENGINE. See TM 9-2350-366-10-1.

**END OF TASK**



CHAPTER 37

UNIT MAINTENANCE INSTRUCTIONS  
FOR STE/ICE COMPONENTS

---

**WORK PACKAGE INDEX**

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| <u>Title</u>                               | <u>Sequence No.</u> |
|--|---------------------|
| REPLACE STE/ICE PULSE TACHOMETER.....      | 0385 00             |
| REPLACE STE/ICE SHUNT.....                 | 0386 00             |
| REPLACE STE/ICE DISTRIBUTION BOX.....      | 0387 00             |
| REPLACE STE/ICE CREW WIRING HARNESS.....   | 0388 00             |
| REPLACE STE/ICE ENGINE WIRING HARNESS..... | 0389 00             |



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**REPLACE STE/ICE PULSE TACHOMETER**

---

**0385 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0385 00-2).  
Installation (page 0385 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Materials/Parts

Gasket

Vehicle blocked (TM 9-2350-366-10-1)

Personnel Required

Unit Mechanic 63T10

Air intake elbow removed (WP 0152 00)

---

REMOVAL

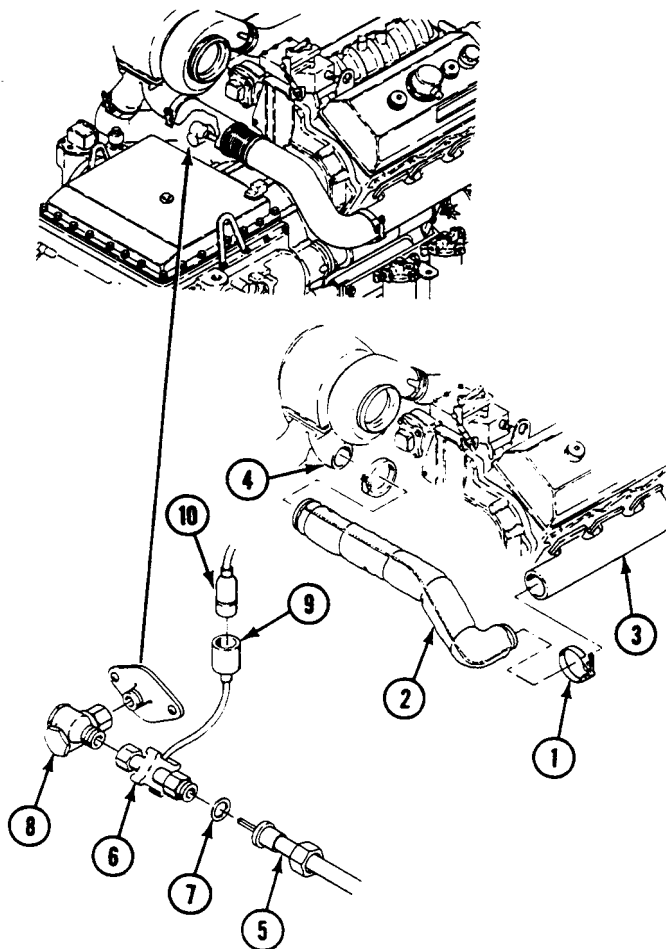
**WARNING**



Hot parts can burn you.

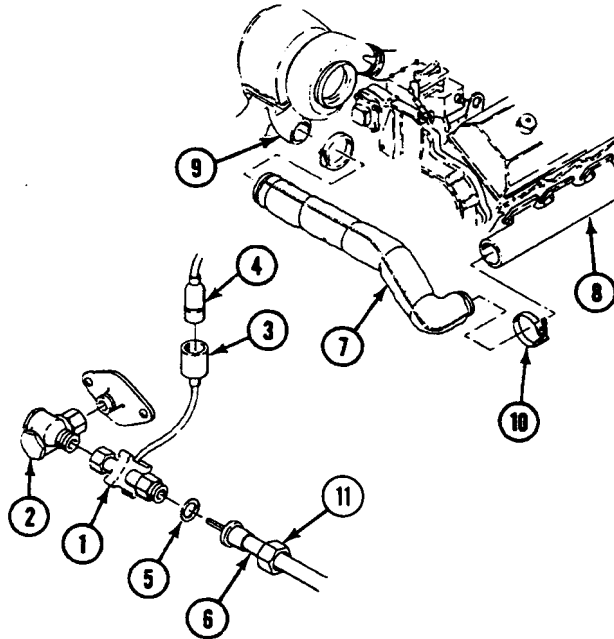
Allow parts to cool before working on or near them. If necessary, use heat protective gloves to work on hot parts.

1. REMOVE TWO CLAMPS (1) FROM ELBOW (2), AND ELBOW FROM EXHAUST MANIFOLD (3) AND TURBO INLET (4).



**REPLACE STE/ICE PULSE TACHOMETER — Continued****0385 00**

2. REMOVE CABLE ASSEMBLY (6) FROM PULSE TACHOMETER (1).
3. SLIDE JAMNUT (11) BACK AND REMOVE GASKET (5) FROM CABLE ASSEMBLY (6). DISCARD GASKET.
4. REMOVE TACHOMETER (1) FROM ENGINE ADAPTER (2).
5. DISCONNECT LEAD (3) FROM LEAD (4) AND REMOVE TACHOMETER (1).

**INSTALLATION**

1. INSTALL TACHOMETER (1) ON ENGINE ADAPTER (2).
2. CONNECT LEAD (3) TO LEAD (4).
3. INSTALL NEW GASKET (5) IN CABLE ASSEMBLY (6). SLIDE JAMNUT (11) FORWARD.
4. INSTALL CABLE ASSEMBLY (6) ON TACHOMETER (1).
5. INSTALL ELBOW (7) TO EXHAUST MANIFOLD (8) AND TURBO INLET (9) WITH TWO CLAMPS (10).
6. INSTALL AIR INTAKE ELBOW (WP 0152 00).

**END OF TASK**



---

**REPLACE STE/ICE SHUNT**

**0386 00**

---

**THIS WORK PACKAGE COVERS:**

Removal (page 0386 00-2).  
Installation (page 0386 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

Insulation tape (WP 0399 00, Item 35)  
Lockwasher (5)  
Lockwasher (4)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
Vehicle blocked (TM 9-2350-366-10-1)  
Battery ground strap disconnected (WP 0237 00)

Personnel Required

Unit Mechanic 63T10

---

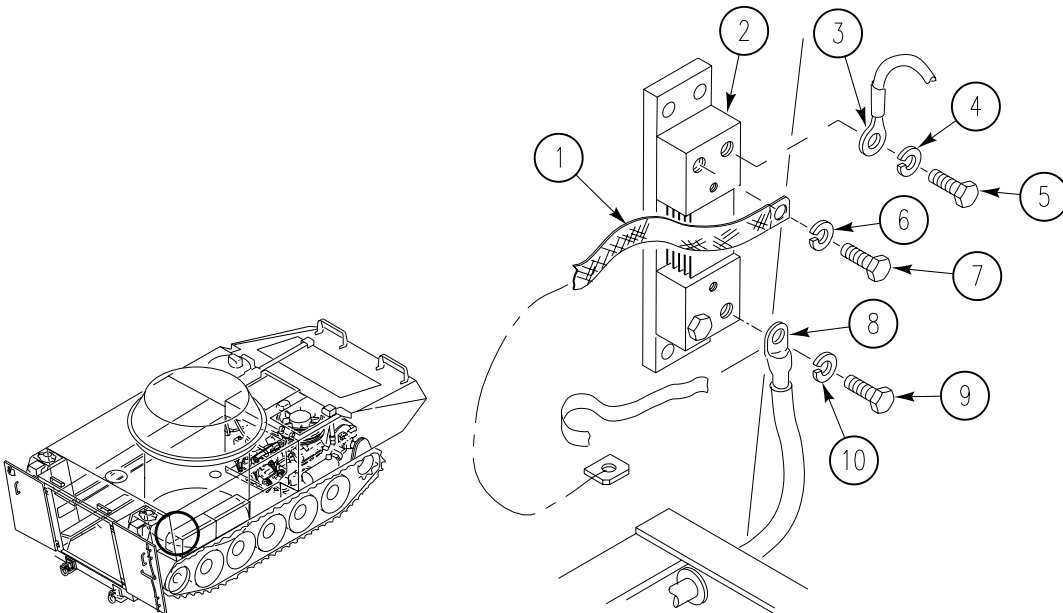
## REMOVAL

**WARNING**

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

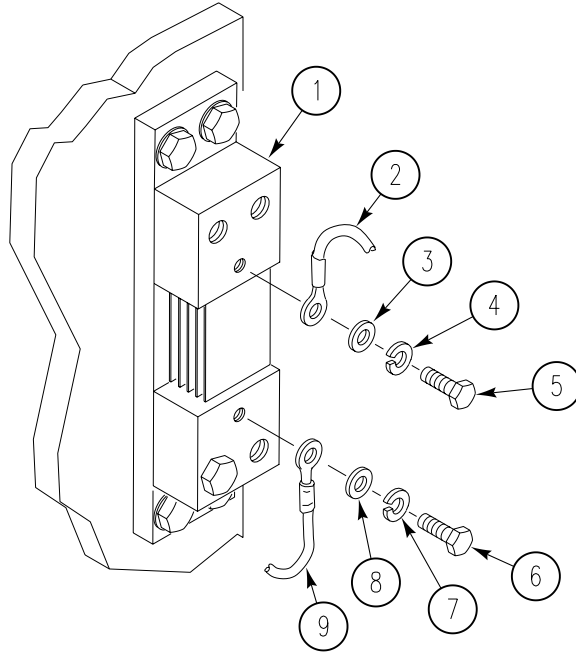
**Remove vehicle ground cable before starting task. Do not touch battery posts with tools or other metal objects. Do not wear jewelry when working with battery or electrical system.**

1. REMOVE SCREW (7), LOCKWASHER (6), AND BATTERY GROUND STRAP (1) FROM SHUNT (2). DISCARD LOCKWASHER.
2. REMOVE SCREW (9), LOCKWASHER (10), AND BATTERY LEAD (8) FROM SHUNT (2). TAPE BATTERY LEAD. DISCARD LOCKWASHERS.
3. REMOVE SCREW (5), LOCKWASHER (4), AND LEAD 770 (3) FROM SHUNT (2). DISCARD LOCKWASHER.

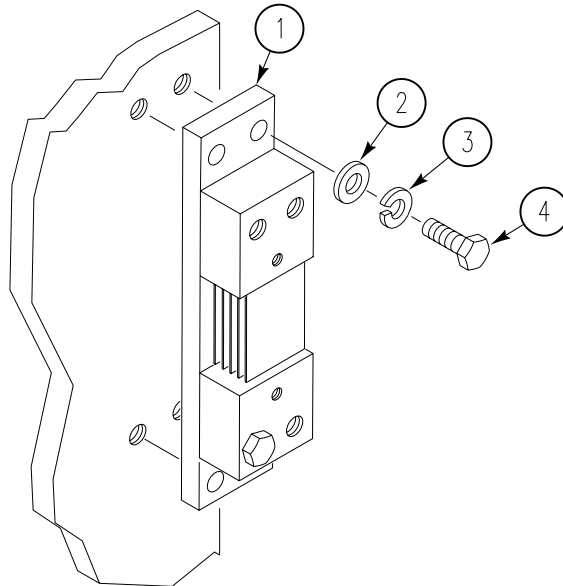




4. REMOVE SCREW (5), LOCKWASHER (4), WASHER (3), AND LEAD 781 (2) FROM SHUNT (1). DISCARD LOCKWASHER.
5. REMOVE SCREW (6), LOCKWASHER (7), WASHER (8), AND LEAD 780 (9) FROM SHUNT (1). DISCARD LOCKWASHER.

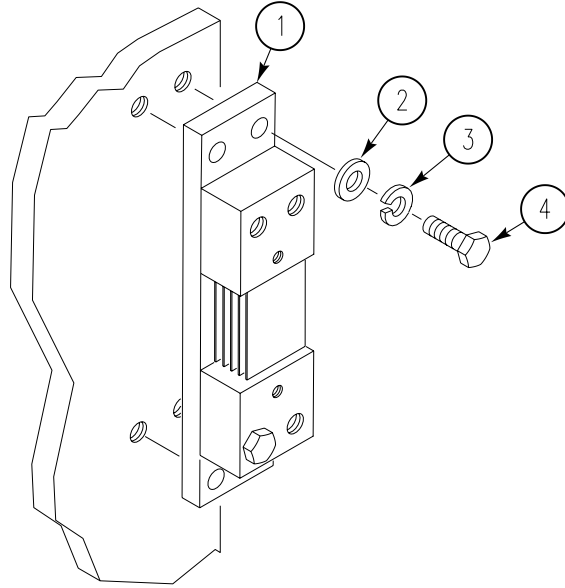


6. REMOVE FOUR SCREWS (4), LOCKWASHERS (3), WASHERS (2), AND SHUNT (1) FROM HULL. DISCARD LOCKWASHERS.

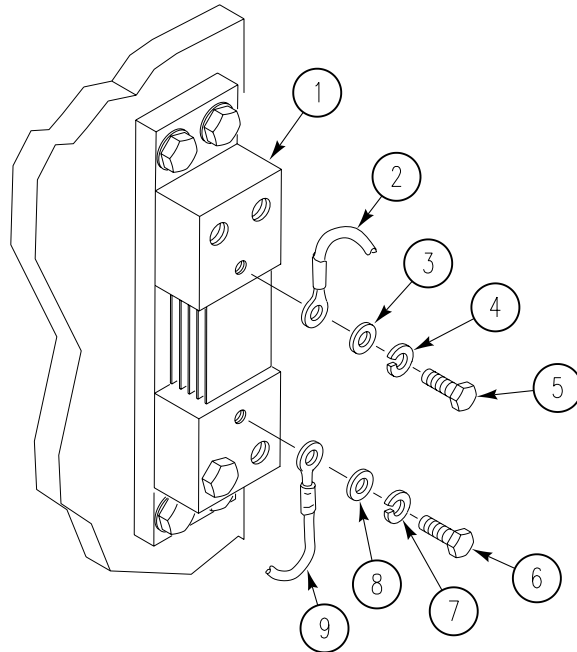


**INSTALLATION**

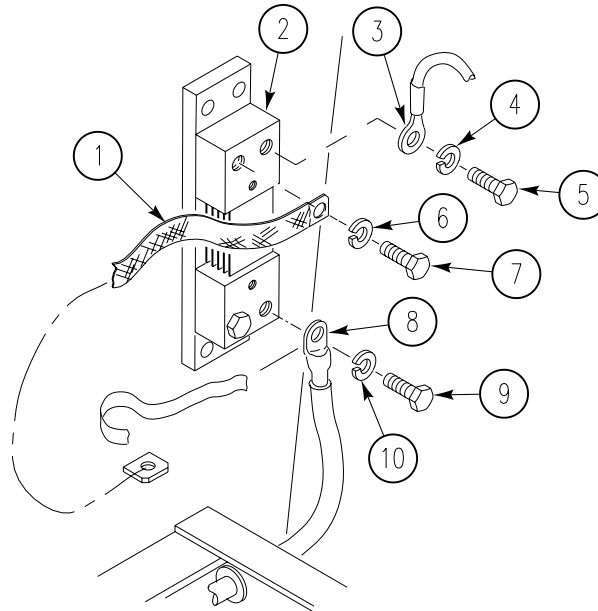
1. INSTALL SHUNT (1) ON HULL. SECURE WITH FOUR SCREWS (4), NEW LOCKWASHERS (3) AND WASHERS (2).



2. INSTALL LEAD 780 (2), NEW LOCKWASHER (4), WASHER (3), AND SCREW (5) ON SHUNT (1).
3. INSTALL LEAD 781 (9), NEW LOCKWASHER (7), WASHER (8), AND SCREW (6) ON SHUNT (1).



4. INSTALL LEAD 770 (3), NEW LOCKWASHER (4), AND SCREW (5) ON SHUNT (2).
5. REMOVE TAPE FROM BATTERY LEAD (8) AND INSTALL LEAD ON SHUNT (2). SECURE WITH SCREW (9) AND NEW LOCKWASHER (10).
6. INSTALL BATTERY GROUND STRAP (1), NEW LOCKWASHER (6), AND SCREW (7) TO SHUNT (2).



7. CONNECT BATTERY GROUND STRAP (WP 0237 00).

**END OF TASK**



---

**REPLACE STE/ICE DISTRIBUTION BOX**

---

**0387 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0387 00-2).  
Installation (page 0387 00-3).

---

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Materials/Parts

Lockwasher (6)  
Tape

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Personnel Required

Unit Mechanic 63T10

Battery ground strap disconnected (WP 0237 00)

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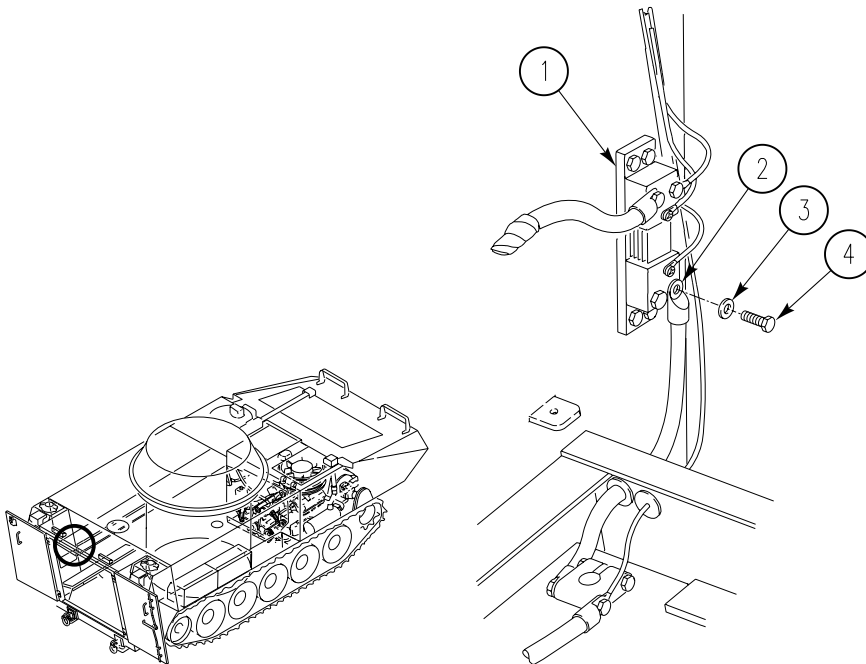
## REMOVAL

**WARNING**

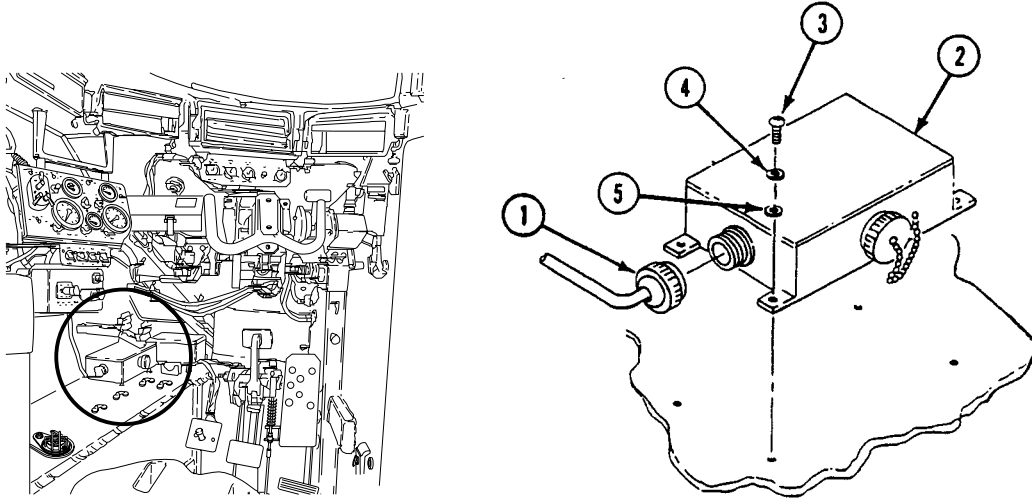
**Battery posts and power cables can short circuit and burn you.**

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

1. REMOVE TWO SCREWS (4), LOCKWASHERS (3), AND BATTERY NEGATIVE LEADS (2) FROM SHUNT (1). TAPE BATTERY LEADS. DISCARD LOCKWASHERS.
2. REMOVE ELECTRICAL CONNECTOR (1) FROM DISTRIBUTION BOX (2).

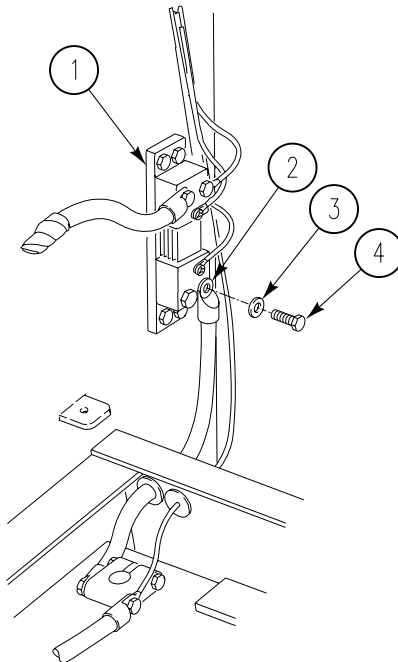


3. REMOVE FOUR SCREWS (3), LOCKWASHERS (4), WASHERS (5), AND DISTRIBUTION BOX (2). DISCARD LOCKWASHERS.



**INSTALLATION**

1. INSTALL DISTRIBUTION BOX (2). SECURE WITH FOUR WASHERS (5), NEW LOCKWASHERS (4), AND SCREWS (3).
2. INSTALL ELECTRICAL CONNECTOR (1) IN DISTRIBUTION BOX (2).
3. UNTAPE AND INSTALL TWO NEGATIVE BATTERY LEADS (2) ON SHUNT (1). SECURE WITH TWO NEW LOCKWASHERS (3) AND SCREWS (4).



4. CONNECT BATTERY GROUND STRAP (WP 0237 00).

**END OF TASK**





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**REPLACE STE/ICE CREW WIRING HARNESS**

**0388 00**

---

**THIS WORK PACKAGE COVERS:**

- Removal (page 0388 00-2).
- Inspection (page 0388 00-4).
- Repair (page 0388 00-4).
- Installation (page 0388 00-4).

---

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Multimeter (WP 0397 00, Item 30)
- Socket wrench set (WP 0397 00, Item 69)

Equipment Condition

- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Front power plant access doors removed (TM 9-2350-366-10-1)
- Driver's power plant access panel removed (TM 9-2350-366-10-1)
- Battery covers removed (WP 0238 00)
- Shunt leads removed (WP 0238 00)

Materials/Parts

- Locknut (4)
- Lockwasher (21)

Personnel Required

- Unit Mechanic 63T10
  - Helper (H)
-

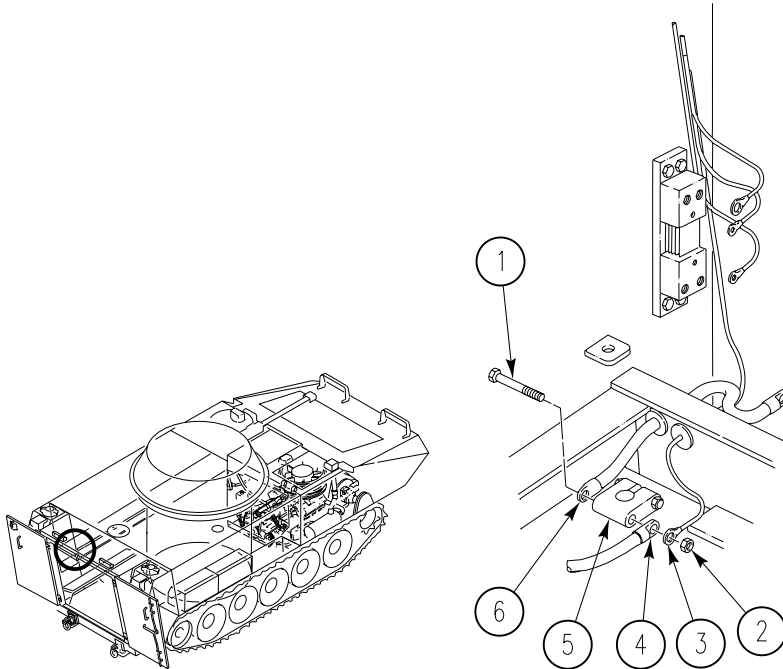
## REMOVAL

**WARNING**

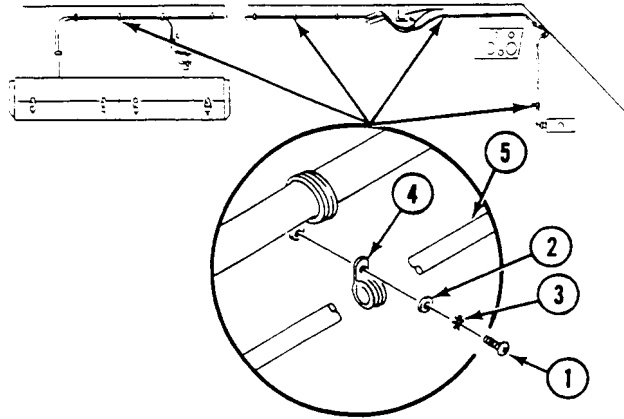
**Battery posts and power cables can short circuit and burn you.**

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

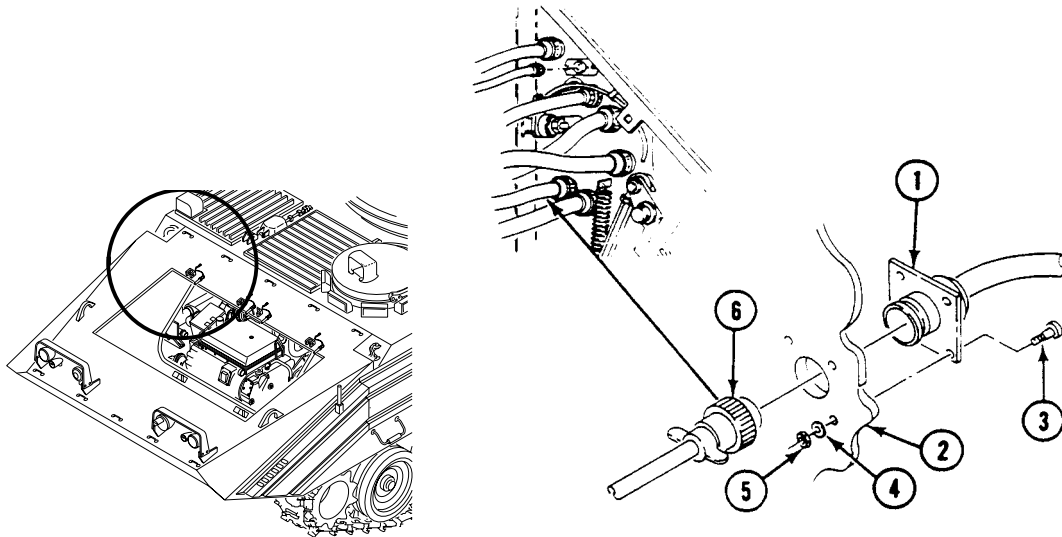
1. REMOVE NUT (2), SCREW (1), BATTERY GROUND CABLE (6), LEAD 779 (3), AND BATTERY CABLE (4) FROM BATTERY TERMINAL (5).



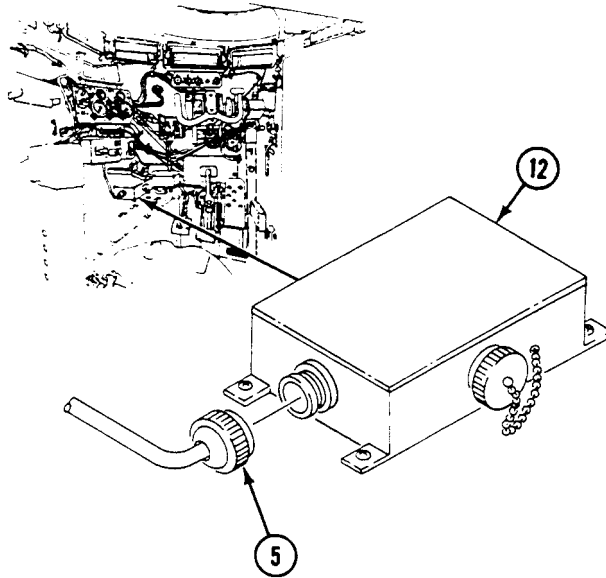
2. REMOVE 21 SCREWS (1), LOCKWASHERS (3), WASHERS (2), AND CLAMPS (4) THAT SECURE WIRING HARNESS (5) TO HULL. DISCARD LOCKWASHERS.



3. DISCONNECT PLUG (6) FROM CONNECTOR (1) IN POWER PLANT COMPARTMENT.
4. REMOVE FOUR LOCKNUTS (5), WASHERS (4), SCREWS (3), AND CONNECTOR (1) FROM BULKHEAD (2). DISCARD LOCKNUTS. HAVE HELPER ASSIST.



5. UNPLUG WIRING HARNESS (5) FROM STE/ICE DISTRIBUTION BOX (12). REMOVE HARNESS.



#### INSPECTION-ACCEPTANCE AND REJECTION CRITERIA

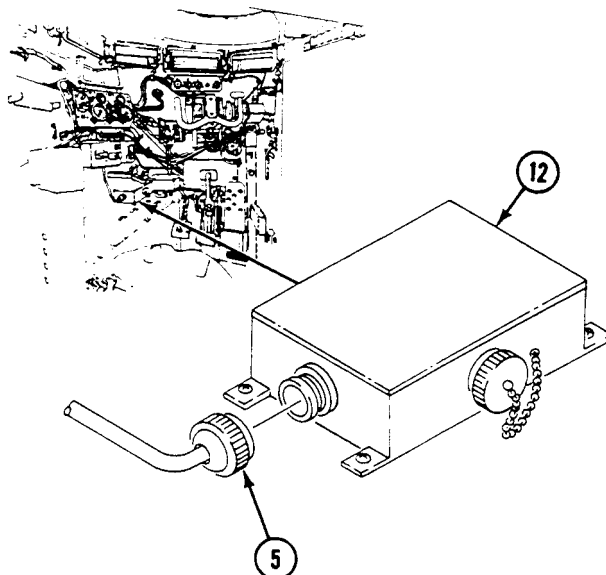
1. CHECK LEADS FOR CONTINUITY. USE MULTIMETER.
2. CHECK CONNECTORS.

#### REPAIR OR REPLACEMENT

1. REPLACE BAD LEADS.
2. REPLACE CRACKED OR BROKEN CONNECTORS (WP 0189 00).

#### INSTALLATION

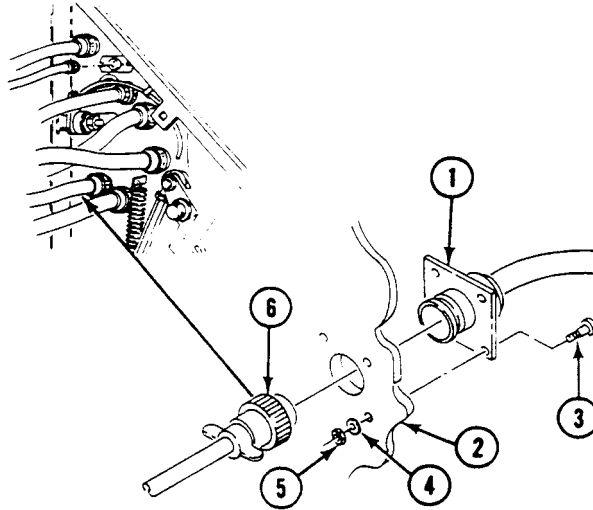
1. PLUG WIRING HARNESS (5) INTO STE/ICE DISTRIBUTION BOX (12), THEN ROUTE HARNESS INTO POSITION.



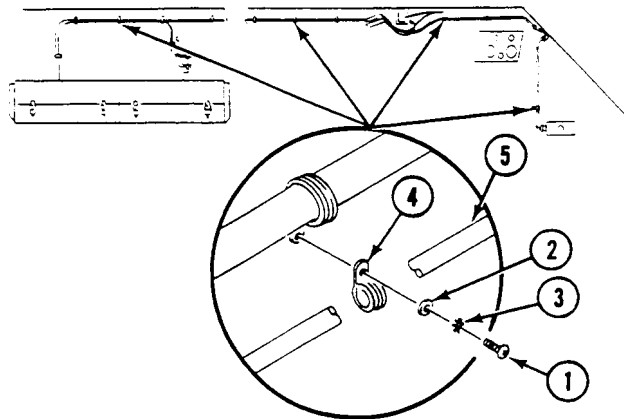
REPLACE STE/ICE CREW WIRING HARNESS — Continued

0388 00

2. INSTALL CONNECTOR (1) ON BULKHEAD (2) IN POWER PLANT COMPARTMENT. SECURE WITH FOUR SCREWS (3), WASHERS (4), AND NEW LOCKNUTS (5).
3. CONNECT PLUG (6) TO CONNECTOR (1).



4. POSITION WIRING HARNESS (5) ALONG HULL. SECURE WITH 21 CLAMPS (4), WASHERS (2), NEW LOCKWASHERS (3), AND SCREWS (1). HAVE HELPER ASSIST.



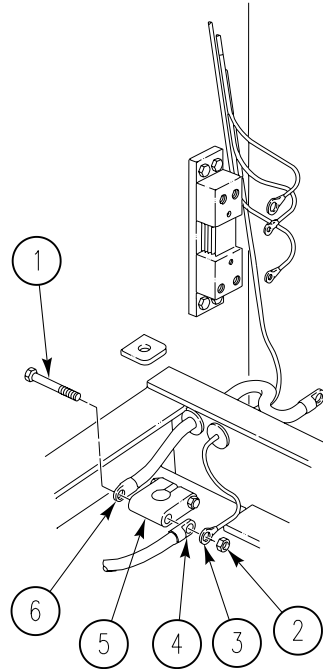
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**REPLACE STE/ICE CREW WIRING HARNESS — Continued**

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**0388 00**

5. INSTALL BATTERY GROUND LEAD (4), LEAD 779 (3), AND BATTERY GROUND LEAD (6) ON BATTERY TERMINAL (5). SECURE WITH SCREW (1) AND NUT (2).



6. INSTALL SHUNT LEADS (WP 0238 00).  
7. INSTALL BATTERY BOX COVERS (WP 0238 00).  
8. INSTALL DRIVER'S POWER PLANT ACCESS PANEL. See TM 9-2350-366-10-1.  
9. INSTALL FRONT POWER PLANT ACCESS DOORS. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE STE/ICE ENGINE WIRING HARNESS**

**0389 00**

**THIS WORK PACKAGE COVERS:**

- Removal (page 0389 00-1).
- Inspection (page 0389 00-4).
- Repair (page 0389 00-4).
- Installation (page 0389 00-4).

**INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mechanic 63T10

Tools and Special Tools

- General mechanic's tool kit (WP 0397 00, Item 64)
- Multimeter (WP 0397 00, Item 30)

References

TM 9-2350-366-10-1

Materials/Parts

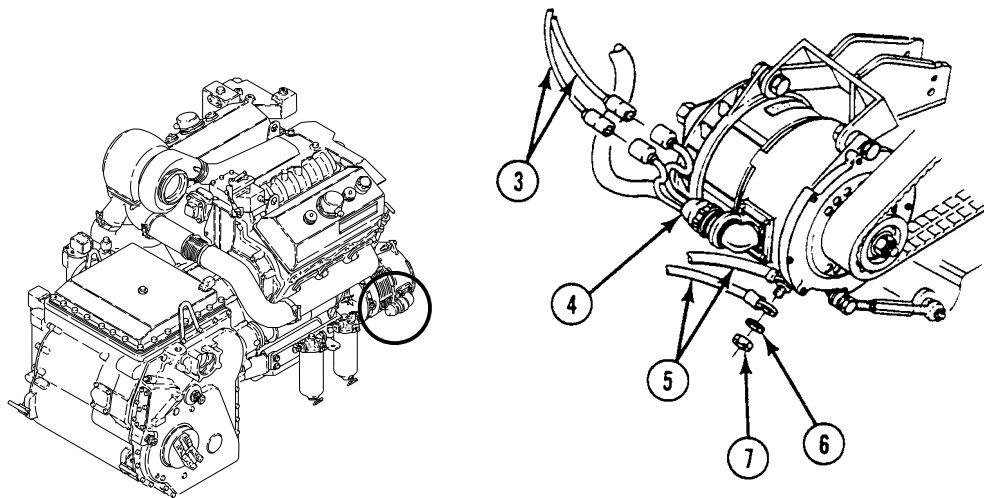
- Lock washer (4)
- Strap
- Strap (3)

Equipment Condition

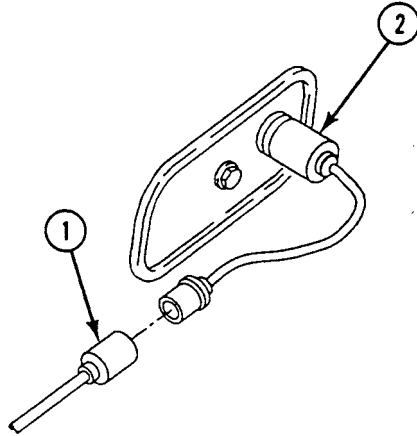
- Engine stopped (TM 9-2350-366-10-1)
- Vehicle blocked (TM 9-2350-366-10-1)
- Power plant removed (WP 0106 00)

**REMOVAL**

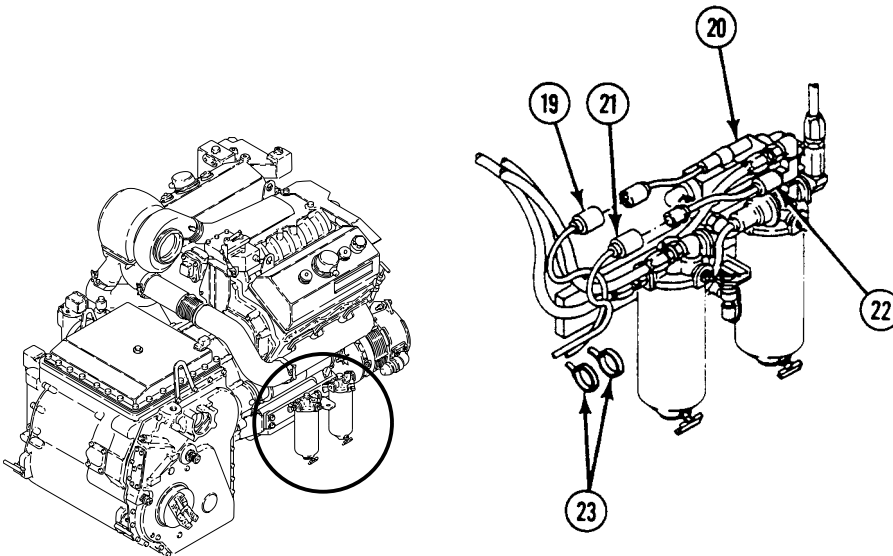
1. REMOVE NUT (7), LOCK WASHER (6), AND TWO GROUND LEADS (5) FROM GENERATOR. DISCARD LOCK WASHER.
2. DISCONNECT LEADS (3) FROM GENERATOR MAIN CABLE (4).



3. DISCONNECT LEAD (1) FROM AIRBOX PRESSURE TRANSDUCER (2).



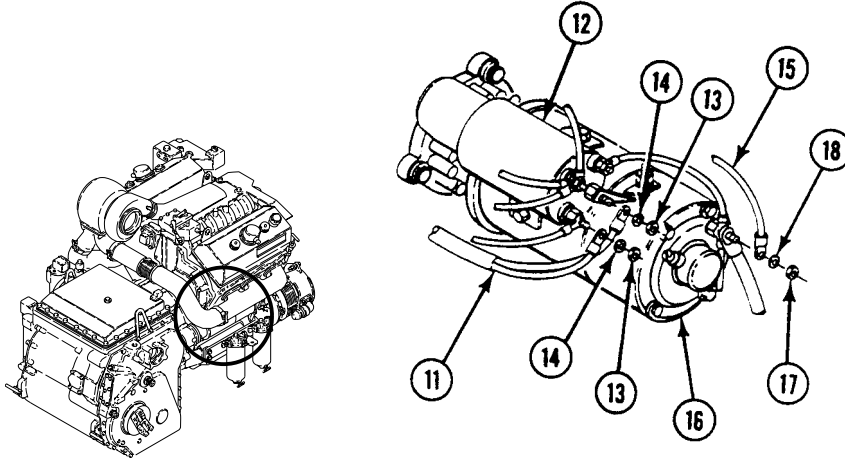
4. DISCONNECT LEAD (21) FROM FUEL SUPPLY PRESSURE TRANSDUCER (22).
5. DISCONNECT LEAD (19) FROM FUEL FILTER DIFFERENTIAL PRESSURE SWITCH (20).
6. REMOVE TWO TIE STRAPS (23) FROM HARNESS. DISCARD STRAPS.



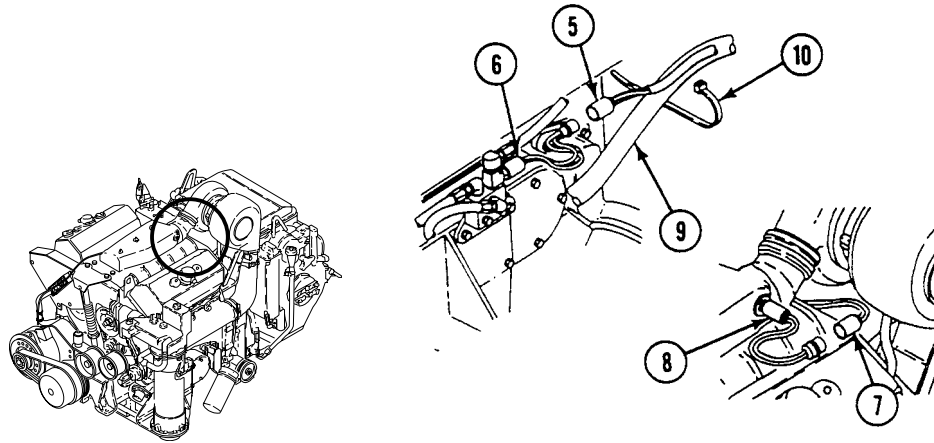
7. REMOVE NUT (17), LOCK WASHER (18), AND LEADS (15) FROM STARTER (16). DISCARD LOCK WASHER.



8. REMOVE TWO NUTS (13), LOCK WASHERS (14), AND LEADS (11) FROM STARTER SOLENOID TERMINAL (13). DISCARD LOCK WASHERS.



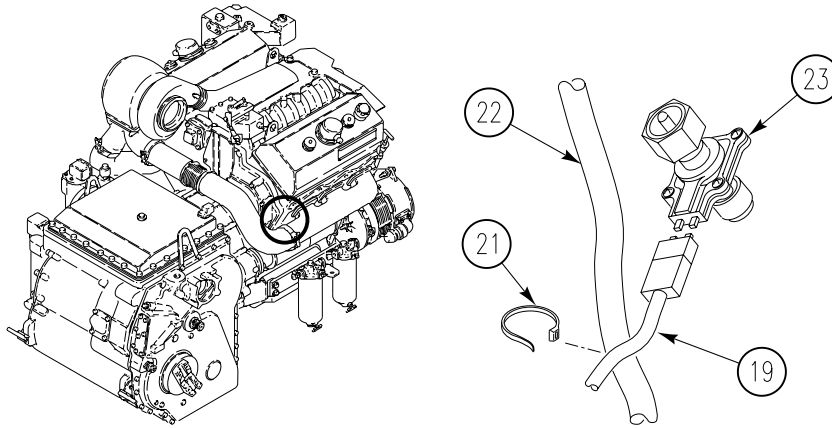
9. DISCONNECT LEAD (7) FROM TURBO OUTLET PRESSURE SWITCH (8).
10. DISCONNECT LEAD (5) FROM FUEL RETURN PRESSURE SWITCH (6).
11. REMOVE TIE STRAP (10) FROM HARNESS. DISCARD STRAP.



12. DISCONNECT LEAD (19) FROM PULSE TACHOMETER (23).

**REPLACE STE/ICE ENGINE WIRING HARNESS — Continued****0389 00**

13. CUT AND REMOVE STRAP (21) FROM LEAD (19) AND HYDRAULIC HOSE (22). DISCARD STRAP. REMOVE HARNESS FROM ENGINE.

**INSPECTION-ACCEPTANCE AND REJECTION CRITERIA**

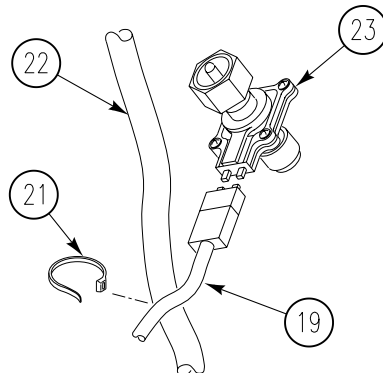
1. INSPECT AND TERMINALS AND CONNECTORS.
2. CHECK LEADS FOR CONTINUITY.

**REPAIR OR REPLACEMENT**

1. REPAIR DAMAGED TERMINALS AND CONNECTORS (WP 0238 00).
2. REPLACE BAD LEADS. (WP 0189 00).

**INSTALLATION**

1. CONNECT HARNESS LEAD (19) TO PULSE TACHOMETER (23).
2. SECURE LEAD (19) TO HYDRAULIC HOSE (22) WITH NEW TIE STRAP (21).

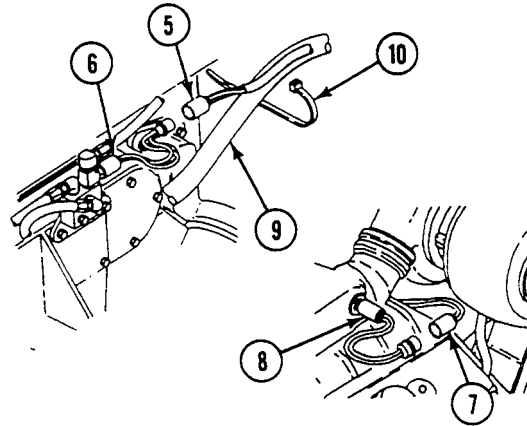


3. CONNECT LEAD (5) TO FUEL RETURN PRESSURE SWITCH (6).
4. CONNECT LEAD (7) TO TURBO OUTLET PRESSURE SWITCH (8).

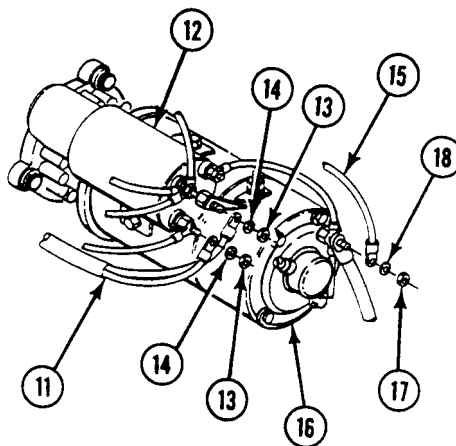
**CAUTION**

Excess heat can cause fuel return pressure switch to leak. Leaking fuel can catch fire and cause equipment damage. Make sure electrical lead is secured away from exhaust duct.

5. SECURE LEAD (5) TO LEAD (9) WITH NEW TIE STRAP (10).

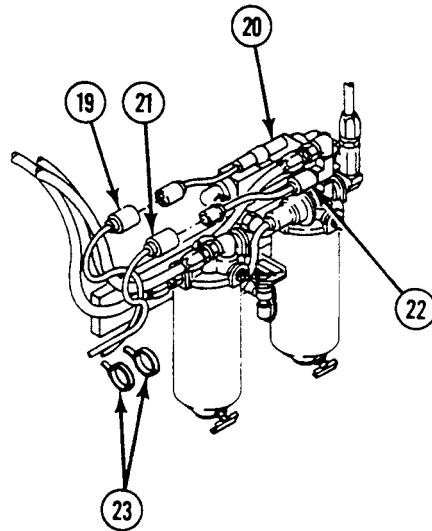


6. INSTALL LEADS (11) ON STARTER SOLENOID (12) TERMINAL. SECURE WITH TWO NUTS (13) AND NEW LOCK WASHERS (14).
7. INSTALL LEADS (15) ON STARTER (16) TERMINALS. SECURE WITH NUT (17) AND NEW LOCK WASHER (18).

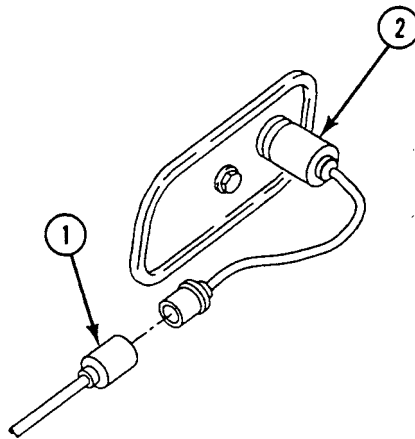


8. CONNECT LEAD (19) TO FUEL FILTER DIFFERENTIAL PRESSURE SWITCH (20).
9. CONNECT LEAD (21) TO FUEL SUPPLY PRESSURE TRANSDUCER (22).

10. SECURE HARNESS TO ENGINE WITH TWO NEW TIE STRAPS (23).

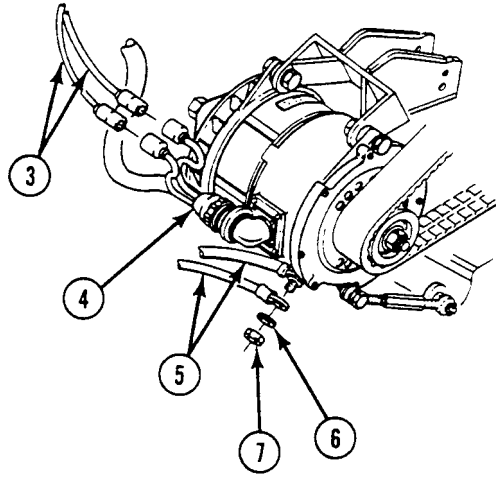


11. CONNECT LEAD (1) TO AIRBOX PRESSURE TRANSDUCER (2).



12. CONNECT LEADS (3) TO GENERATOR MAIN CABLE (4).

13. INSTALL GROUND LEADS (5) ON GENERATOR. SECURE WITH NEW LOCK WASHER (6) AND NUT (7).



14. INSTALL POWER PLANT (WP 0106 00).

**END OF TASK**



CHAPTER 38

UNIT MAINTENANCE INSTRUCTIONS  
FOR FIRE EXTINGUISHERS

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**WORK PACKAGE INDEX**

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| <u>Title</u>   | <u>Sequence No.</u> |
|--|---------------------|
| REPLACE FIRE EXTINGUISHER CYLINDER AND MOUNT.....                | 0390 00             |
| REPLACE CYLINDER DISCHARGE TUBES.....                            | 0391 00             |
| REPLACE EXTERNAL HANDLE SHIELD.....                              | 0392 00             |
| REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL HANDLE..... | 0393 00             |
| REPLACE EXTERNAL CABLE TUBE.....                                 | 0394 00             |





**REPLACE FIRE EXTINGUISHER CYLINDER AND MOUNT**

**0390 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0390 00-1).  
 Installation (page 0390 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Socket wrench set (WP 0397 00, Item 69)  
 Torque wrench (WP 0397 00, Item 76)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Control valve removed (WP 0393 00)  
 Discharge tube removed from cylinder (WP 0391 00)

Materials/Parts

Cotter pin (4)

Personnel Required

Unit Mechanic 63T10

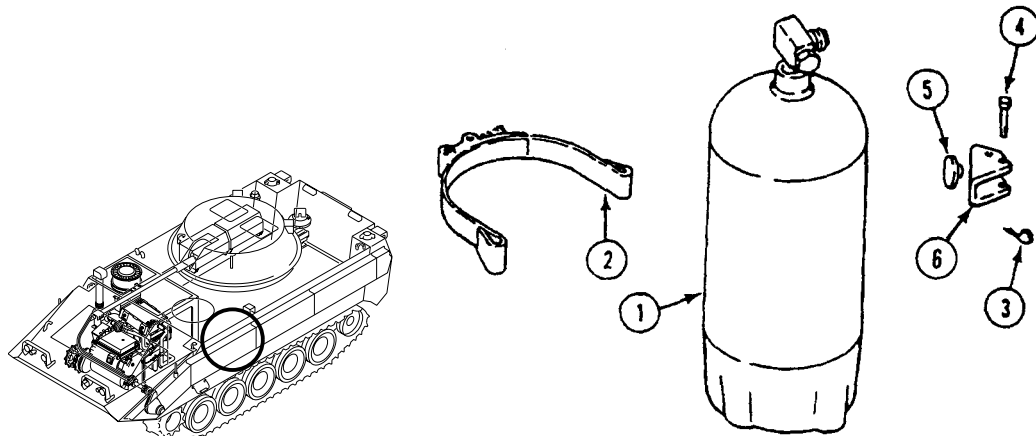
**REMOVAL**

**WARNING**



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

1. SUPPORT CYLINDER (1) AND LOOSEN TWO CLAMPS (2). REMOVE CYLINDER FROM FOUR HULL BRACKETS (6).
2. REMOVE FOUR COTTER PINS (3), PINS (4), AND TWO CLAMPS (2) FROM HULL BRACKETS (6). DISCARD COTTER PINS.
3. IF NEEDED, REMOVE FOUR BUMPERS (5) FROM HULL BRACKETS (6).

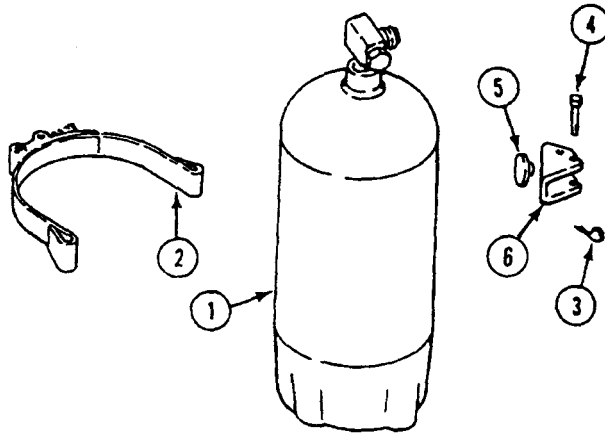


## INSTALLATION

## NOTE

The carbon dioxide (CO<sup>2</sup>) cylinder has a 5 pound (2 kg) capacity with a maximum weight of 18 pounds (8 kg). Weigh cylinder before installation. If weight loss is more than 10 percent (2 pounds) (1 kg), replace cylinder with a fully charged one.

1. IF REMOVED, INSTALL FOUR BUMPERS (5) IN HULL BRACKETS (6).
2. PLACE TWO CLAMPS (2) ON HULL BRACKETS (6). SECURE WITH FOUR PINS (4) AND NEW COTTER PINS (3).
3. HOLD CYLINDER (1) ON HULL BRACKETS (6). SECURE WITH TWO CLAMPS (2). TIGHTEN CLAMPS TO 51-59 LB-IN (5-6 N·M) TORQUE.



4. INSTALL DISCHARGE TUBE ON CYLINDER (WP 0391 00).
5. INSTALL CONTROL VALVE (WP 0393 00).

**END OF TASK**

**REPLACE CYLINDER DISCHARGE TUBES**

**0391 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0391 00-1).  
 Installation (page 0391 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 Driver's power plant access panel removed (TM 9-2350-366-10-1)  
 Power plant removed (WP 0335 00), if bottom discharge tube is to be removed

Materials/Parts

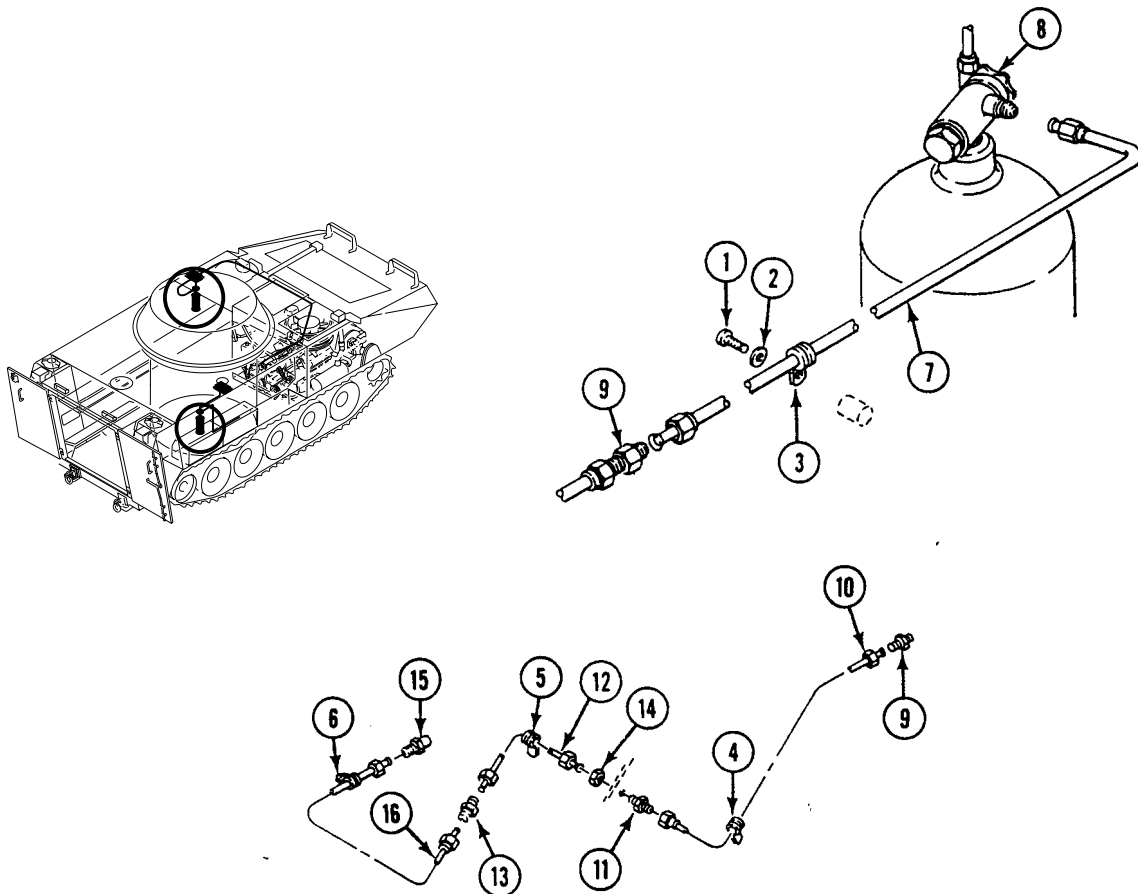
Lock washer (6)

Personnel Required

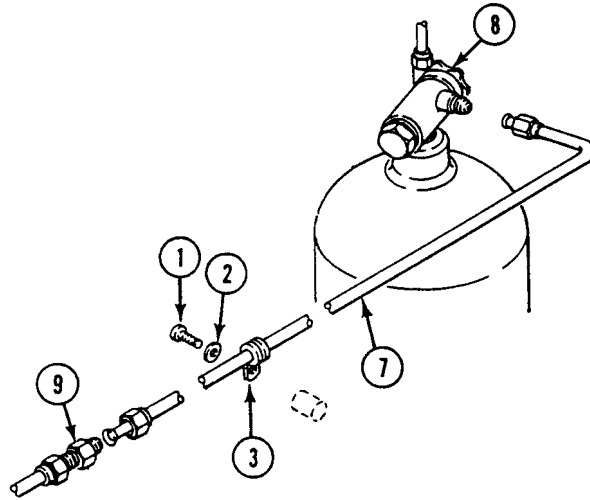
Unit Mechanic 63T10

**REMOVAL**

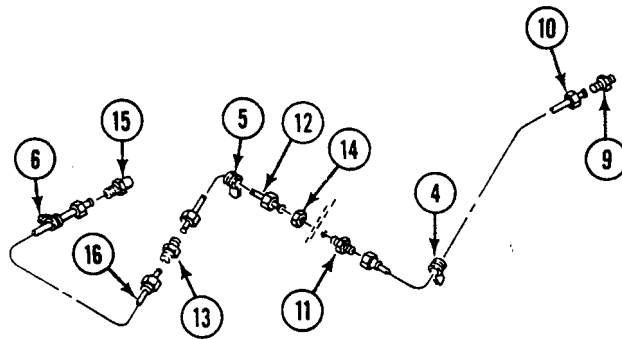
1. REMOVE SIX SCREWS (1), LOCK WASHERS (2), AND CLAMPS (3), (4), (5), AND (6) FROM SIX HULL WELDNUTS. DISCARD LOCK WASHERS.



2. REMOVE TUBE (7) FROM FIRE EXTINGUISHER CYLINDER (8) AND UNION (9). REMOVE CLAMP (3) FROM TUBE.

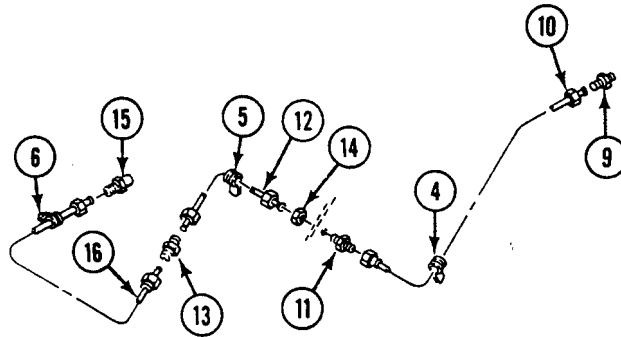


3. REMOVE TUBE (10) FROM UNION (11). REMOVE UNION (9) AND CLAMP (4) FROM TUBE.
4. REMOVE TUBE (12) FROM UNION (11) AND UNION (13). REMOVE CLAMP (5) FROM TUBE.
5. REMOVE NUT (14) AND UNION (11) FROM DRIVER'S BULKHEAD.
6. REMOVE UNION (13), NOZZLE (15), AND THREE CLAMPS (6) FROM TUBE (16).

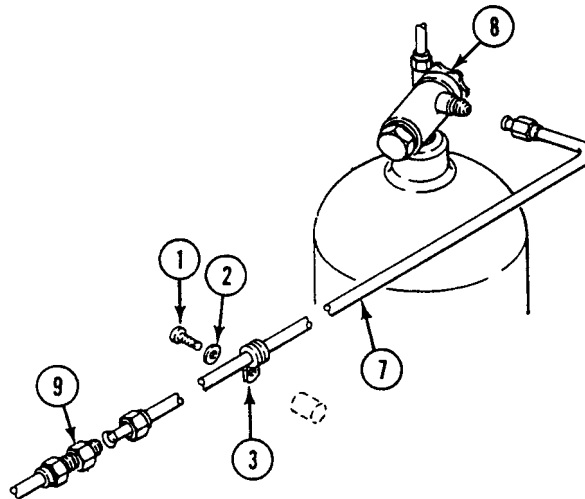


**INSTALLATION**

1. PLACE THREE CLAMPS (6) ON TUBE (16). INSTALL NOZZLE (15) AND UNION (13) ON TUBE.
2. INSTALL UNION (11) IN DRIVER'S BULKHEAD. SECURE WITH NUT (14).
3. PLACE CLAMP (5) ON TUBE (12). INSTALL TUBE ON TWO UNIONS (13) AND (11).
4. PLACE CLAMP (4) ON TUBE (10). INSTALL UNION (9) ON TUBE, AND INSTALL TUBE ON UNION (11).



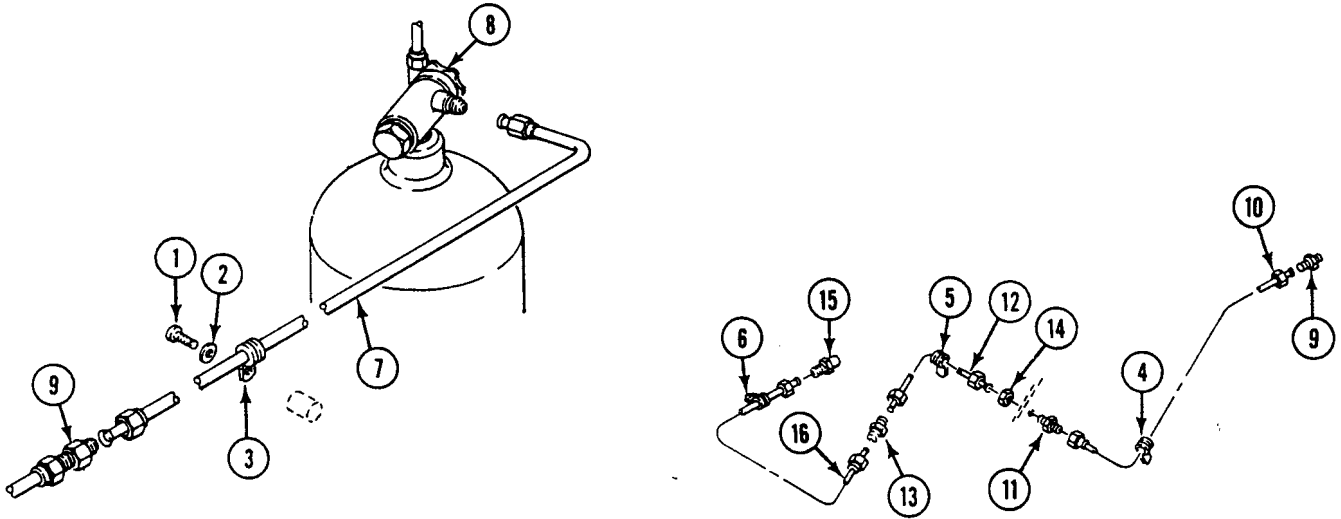
5. PLACE CLAMP (3) ON TUBE (7). INSTALL TUBE ON UNION (9) AND FIRE EXTINGUISHER CYLINDER (8).



REPLACE CYLINDER DISCHARGE TUBES — Continued

0391 00

6. ALIGN SIX CLAMPS (6), (5), (4), AND (3) WITH SIX HULL WELDNUTS. SECURE CLAMPS TO WELDNUTS WITH SIX SCREWS (1) AND NEW LOCK WASHERS (2).



7. IF REMOVED, INSTALL POWER PLANT (WP 0335 00).  
 8. INSTALL DRIVER'S POWER PLANT ACCESS PANEL. See TM 9-2350-366-10-1.

**END OF TASK**

**REPLACE EXTERNAL HANDLE SHIELD**

**0392 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0392 00-1).  
 Installation (page 0392 00-2).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)

Vehicle blocked (TM 9-2350-366-10-1)

Materials/Parts

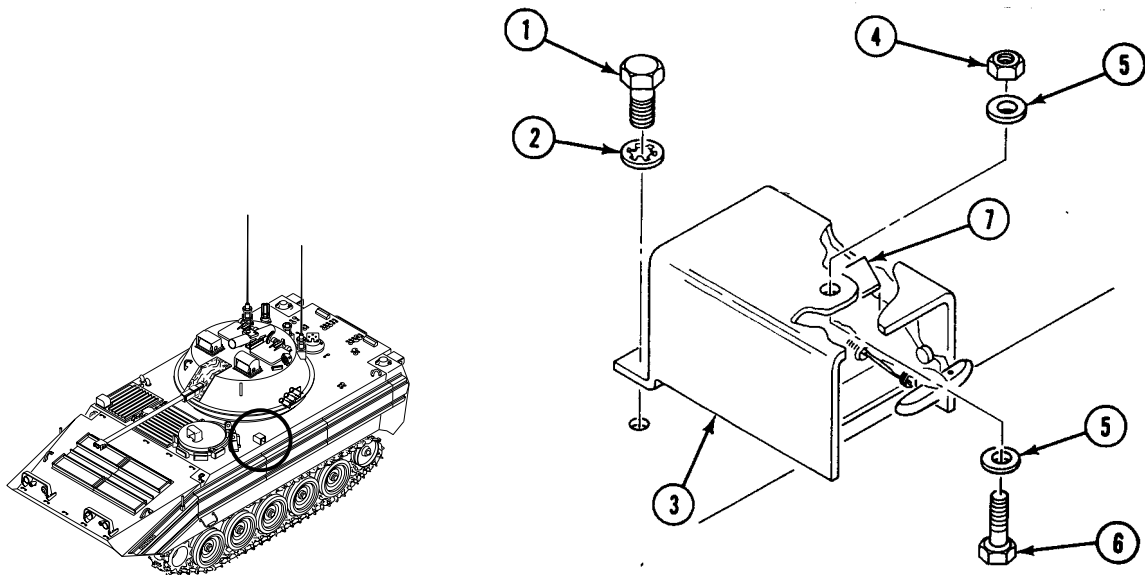
Locknut  
 Lock washer (2)

Personnel Required

Unit Mechanic 63T10

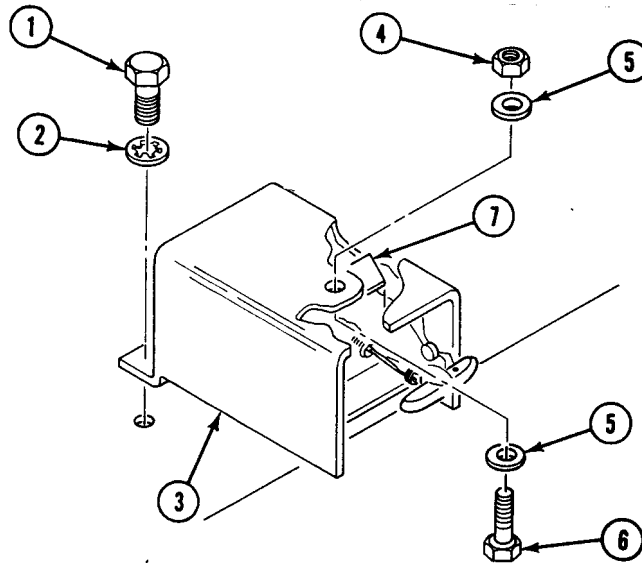
**REMOVAL**

1. REMOVE TWO SCREWS (1) AND LOCK WASHERS (2) FROM SHIELD (3) AND HULL TOP PLATE. DISCARD LOCK WASHERS.
2. REMOVE LOCKNUT (4), TWO WASHERS (5), SCREW (6), AND SHIELD (3) FROM SUPPORT BRACKET (7). DISCARD LOCKNUT AND SHIELD.



**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 LOCK WASHERS (2) AND SCREWS (1).

**END OF TASK**



**REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL HANDLE**

**0393 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0393 00-1).  
 Installation (page 0393 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)  
 Lead seal hand press (WP 0397 00, Item 34)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 External handle shield removed (WP 0392 00)

Materials/Parts

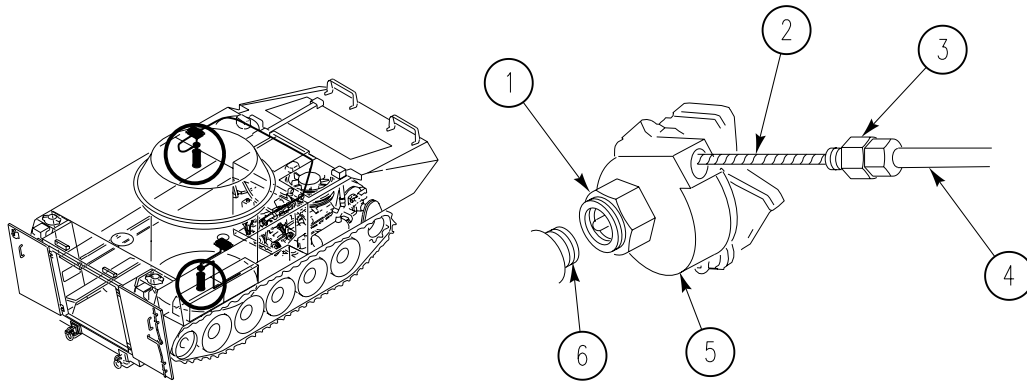
Seal wire

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. LOOSEN CAPTIVE NUT (1) ON CONTROL VALVE (5). REMOVE VALVE FROM FIRE EXTINGUISHER CYLINDER (6).



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**REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL HANDLE —**  
**Continued**

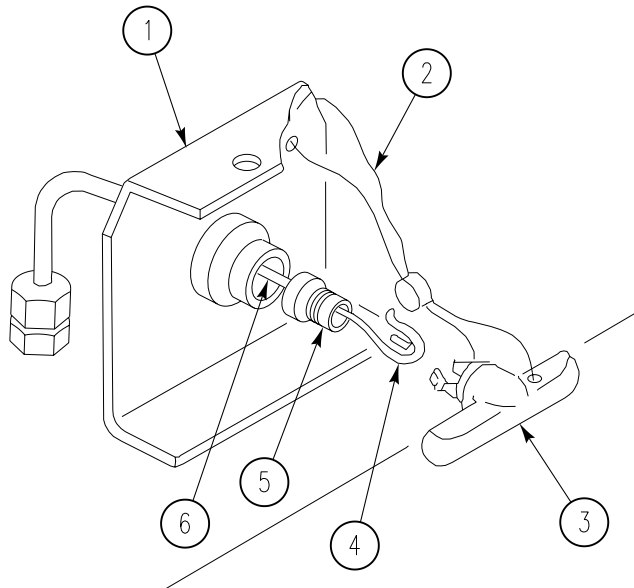
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0393 00

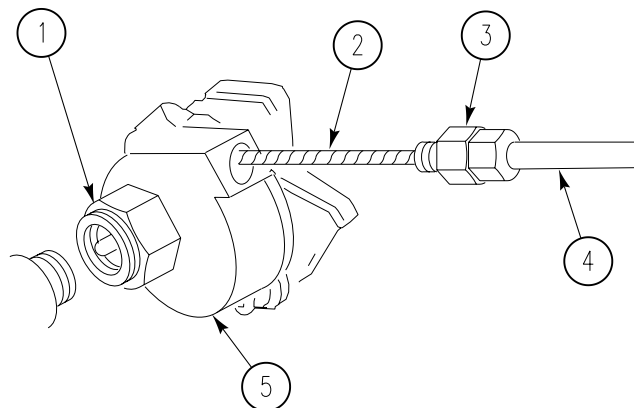
**NOTE**

**There are two types of control valves. Remove and install both valves the same way.**

2. PULL EXTERNAL HANDLE (3) TO BREAK SEAL WIRE (2). REMOVE WIRE FROM HANDLE AND SUPPORT BRACKET (1). DISCARD WIRE.
3. REMOVE INSERT (5) FROM HANDLE (3).
4. SLIDE INSERT (5) DOWN CABLE (6) UNTIL WEDGE (4) CAN BE SEEN. REMOVE WEDGE AND CABLE FROM INSERT.



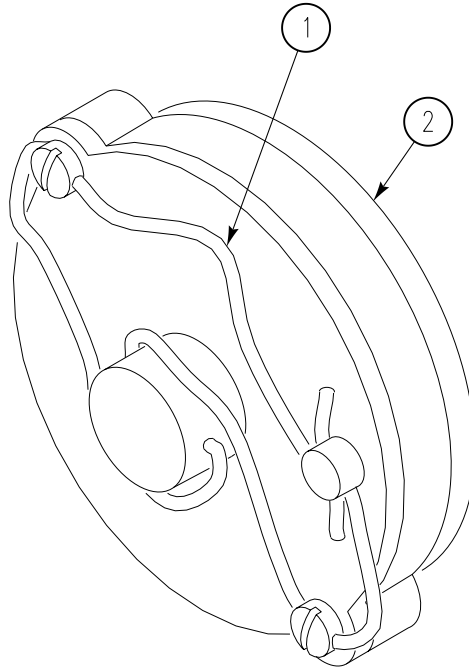
5. REMOVE ADAPTER (3) FROM CONTROL VALVE (5).
6. GENTLY PULL CONTROL VALVE UNTIL CABLE (2) IS FREE FROM CABLE TUBE (4). REMOVE VALVE FROM CARRIER.



**REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL HANDLE —  
Continued**

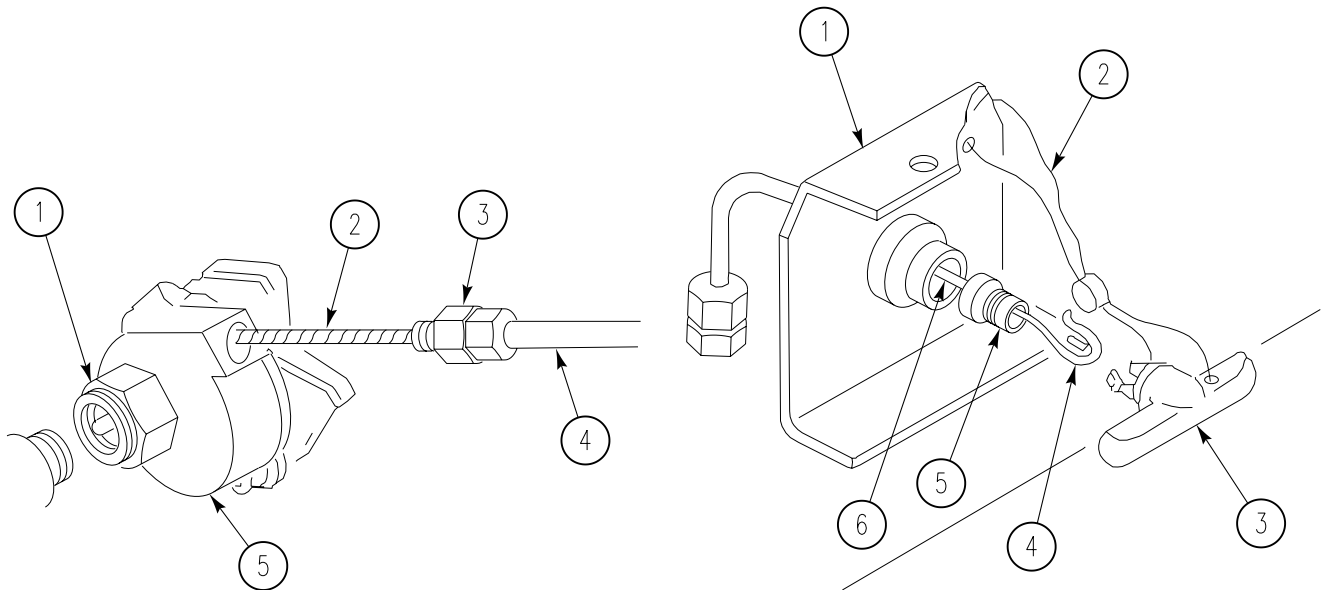
**0393 00**

7. REMOVE BROKEN SEAL WIRE (1) FROM CONTROL VALVE (2).



**INSTALLATION**

1. SLIDE ADAPTER (3) OVER CABLE (2). INSTALL ADAPTER IN CONTROL VALVE (5).
2. ROUTE CABLE (2) THROUGH CABLE TUBE (4) AND INSERT (5).



3. BEND CABLE OVER WEDGE (4). SLIDE INSERT (5) OVER CABLE AND WEDGE.

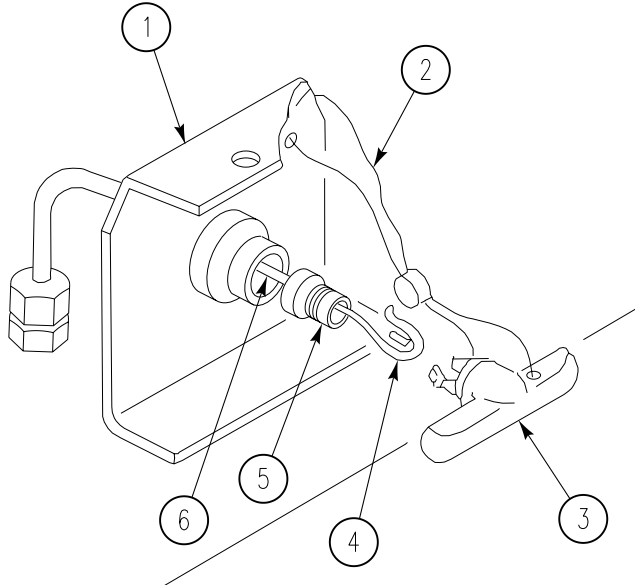
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REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL HANDLE —  
Continued

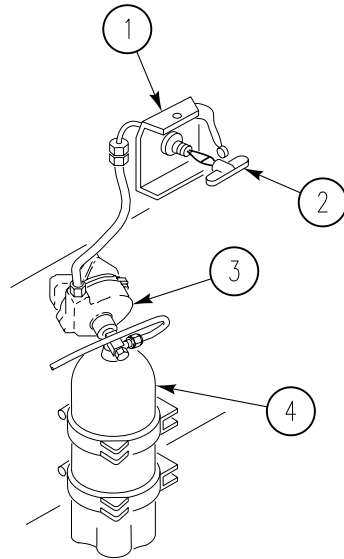
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0393 00

4. INSTALL INSERT (5) IN HANDLE (3).



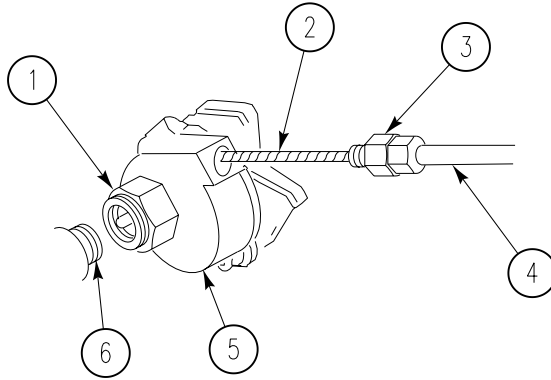
5. PULL CONTROL VALVE (3) UNTIL HANDLE (2) IS IN PLACE ON SUPPORT BRACKET (1).



**REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL HANDLE —  
Continued**

**0393 00**

6. INSTALL VALVE (5) ON FIRE EXTINGUISHER CYLINDER (6). SECURE WITH CAPTIVE NUT (1).

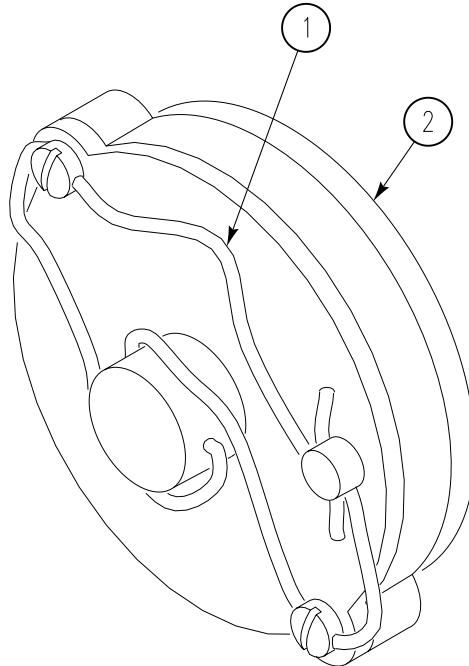


**CAUTION**

**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.**

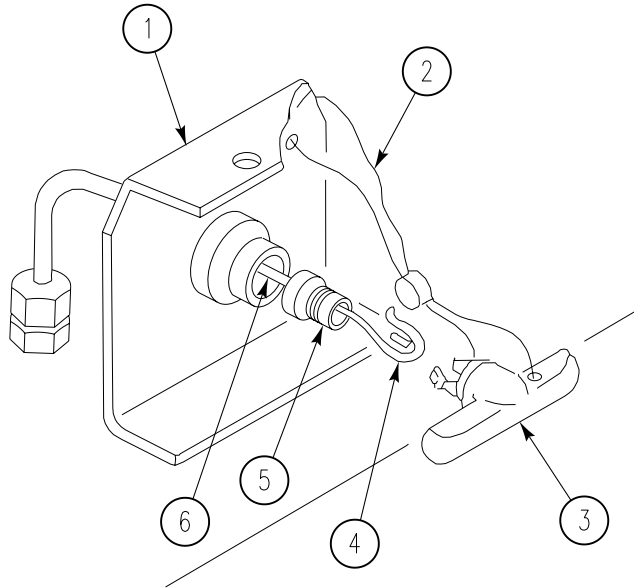
7. INSTALL NEW COPPER SEAL WIRE (1) ON CONTROL VALVE (2). USE LEAD SEAL HAND PRESS.



**REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL HANDLE —**  
**Continued**

**0393 00**

8. INSTALL NEW SEAL WIRE (2) BETWEEN HANDLE (3) AND SUPPORT BRACKET (1). USE LEAD SEAL HAND PRESS.



9. INSTALL EXTERNAL HANDLE SHIELD (WP 0392 00).

**END OF TASK**

**REPLACE EXTERNAL CABLE TUBE**

**0394 00**

**THIS WORK PACKAGE COVERS:**

Removal (page 0394 00-1).  
 Installation (page 0394 00-3).

**INITIAL SETUP:**

Maintenance Level

Unit

References

TM 9-2350-366-10-1

Tools and Special Tools

General mechanic's tool kit (WP 0397 00, Item 64)

Equipment Condition

Engine stopped (TM 9-2350-366-10-1)  
 Vehicle blocked (TM 9-2350-366-10-1)  
 External handle shield removed (WP 0392 00)  
 External handle and insert removed (WP 0393 00)

Materials/Parts

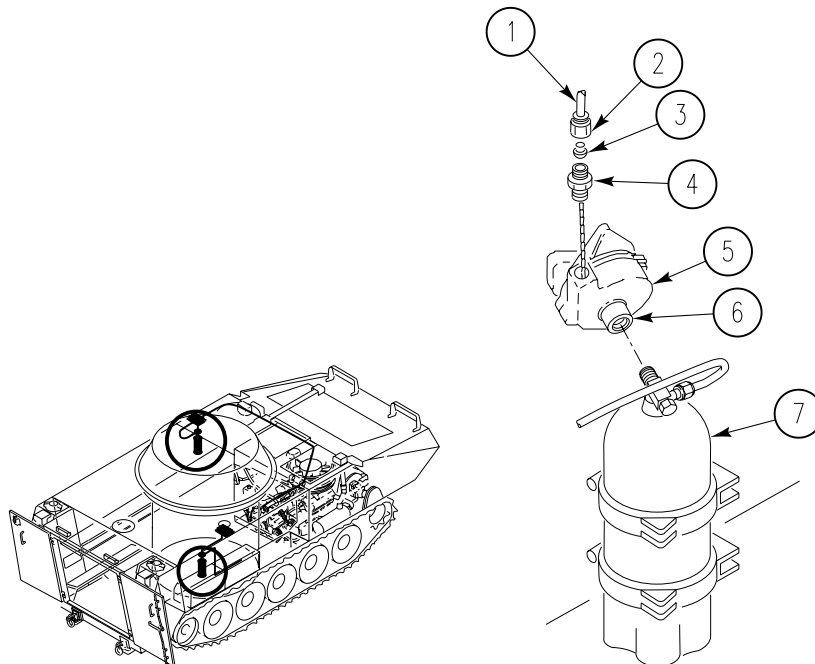
Adapter  
 Nut  
 Sleeve  
 Sleeve

Personnel Required

Unit Mechanic 63T10

**REMOVAL**

1. LOOSEN NUT (2) ON CONTROL VALVE ADAPTER (4).

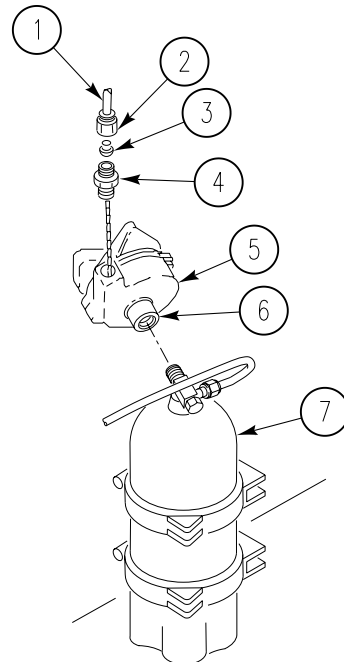
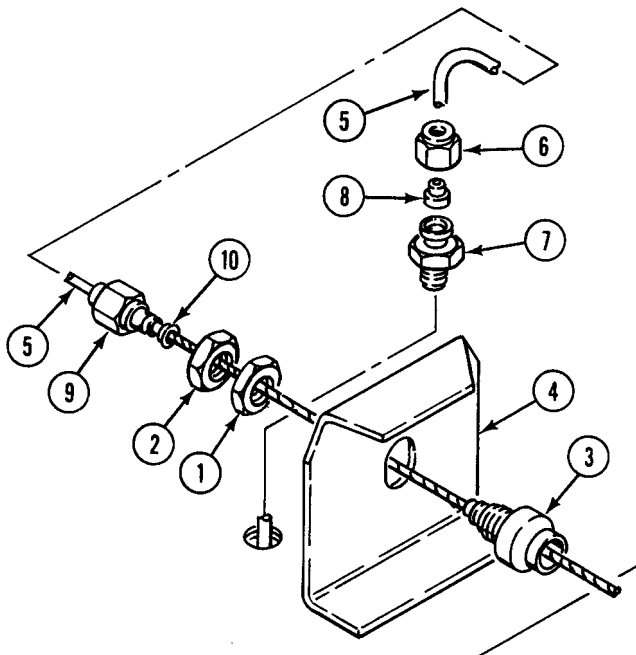


**WARNING**



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

2. LOOSEN CAPTIVE NUT (6) ON CONTROL VALVE (5). REMOVE VALVE FROM FIRE EXTINGUISHER CYLINDER (7).
3. REMOVE ADAPTER (4) FROM CONTROL VALVE (5). DISCARD ADAPTER.
4. CUT SLEEVE (3) AND NUT (2) FROM TUBE (1). DISCARD SLEEVE AND NUT.
5. REMOVE NUT (1) AND JAMNUT (2) FROM ADAPTER (3). REMOVE ADAPTER FROM SUPPORT BRACKET (4).
6. REMOVE CABLE TUBE (5) FROM SUPPORT BRACKET (4). SLIDE NUT (1) AND JAMNUT (2) FROM TUBE (5).
7. LOOSEN NUT (6) ON ADAPTER (7).
8. PULL TUBE (5) THROUGH ADAPTER (7). REMOVE ADAPTER FROM HULL PLATE.
9. CUT TUBE (5) ABOVE SLEEVE (8). REMOVE TWO NUTS (6) AND (9), AND REMOVE TUBE WITH SLEEVE (10). DISCARD TUBE AND SLEEVES.





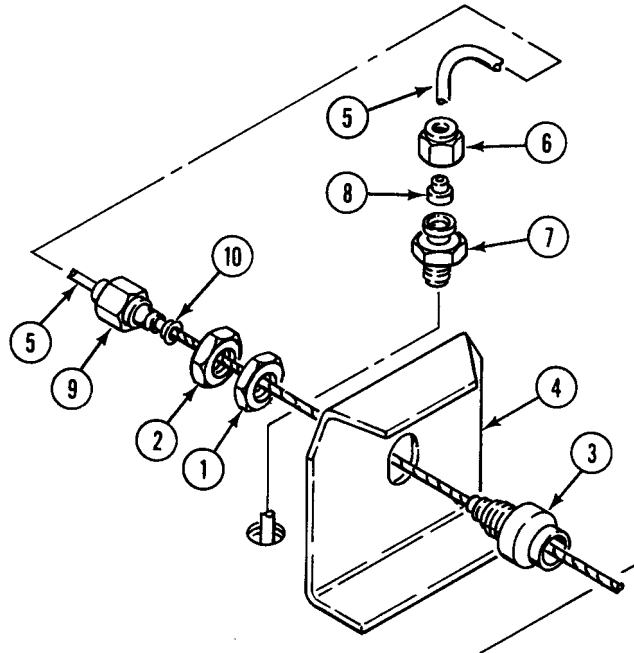
**INSTALLATION**

1. INSTALL NEW SLEEVE (8), TWO NUTS (6) AND (9), AND ADAPTER (7) ON NEW TUBE (5).

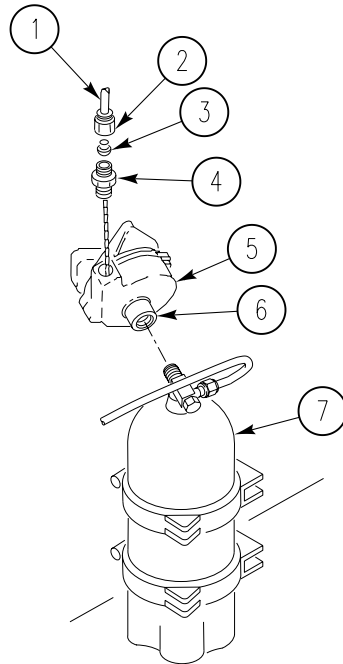
**NOTE**

**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 JAMNUT (2).
4. INSTALL TUBE (5) ON ADAPTER (3). SECURE WITH FLARED SLEEVE (10) AND NUT (9).
5. SLIDE TUBE (5) THROUGH HOLE IN HULL PLATE.



6. INSTALL NEW ADAPTER (4) ON CONTROL VALVE (5).
7. INSTALL CONTROL VALVE (5) ON FIRE EXTINGUISHER CYLINDER (7). SECURE WITH CAPTIVE NUT (6).
8. INSTALL NEW NUT (2) AND NEW SLEEVE (3) ON TUBE (1).
9. ROUTE CABLE THROUGH TUBE (1). TIGHTEN NUT (2) ON ADAPTER (4).



10. INSTALL EXTERNAL HANDLE AND INSERT (WP 0393 00).
11. INSTALL EXTERNAL HANDLE SHIELD (WP 0392 00).

**END OF TASK**

CHAPTER 39

UNIT SUPPORTING INFORMATION

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**WORK PACKAGE INDEX**

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| <u>Title</u>                                   | <u>Sequence No.</u> |
|--|---------------------|
| REFERENCES.....                                | 0395 00             |
| MAINTENANCE ALLOCATION CHART (MAC).....        | 0396 00             |
| TOOL IDENTIFICATION LIST.....                  | 0397 00             |
| TORQUE LIMITS.....                             | 0398 00             |
| EXPENDABLE AND DURABLE ITEMS LIST.....         | 0399 00             |
| STENCILS, DATAPLATES, DECALS, AND MARKERS..... | 0400 00             |
| GENERAL MAINTENANCE INSTRUCTIONS.....          | 0401 00             |



**REFERENCES**

**0395 00**

**SCOPE**

This work package lists all forms, field manuals, technical manuals, and miscellaneous publications referenced in this manual.

**FORMS**

See DA PAM 738-750 for current maintenance forms and records.

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

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

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

Equipment Inspection and Maintenance Worksheet.....DA Form 2404

Equipment Modification Record.....DA Form 2408-5

Maintenance Request.....DA Form 2407

Preventive Maintenance Schedule and Record.....DD Form 314

Processing and Deprocessing Record for Shipment, Storage, and Issue of Vehicles and Spare  
Engines.....DD Form 1397

Quality Deficiency Report.....SF 368

Recommended Changes to Publications and Blank Forms.....DA Form 2028

Report of Discrepancy (ROD).....SF 364

Uncorrected Fault Record.....DA Form 2408-14

**FIELD MANUALS**

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

Fundamentals of Machine Tools.....FM 9-24

Operation and Maintenance of Ordnance Material in Cold Weather.....FM 9-207

**INDEXES**

Index of Army Motion Pictures and Related Audio Visual Aids.....DA PAM 108-1

Index of Charging Systems Troubleshooting.....DA PAM 750-33

Consolidated Index of Army Publications and Blank Forms.....DA PAM 25-30

**TECHNICAL MANUALS**

Ammunition and Explosives Standards.....TM 9-1300-206

Inspection, Care, and Maintenance of Antifriction Bearings.....TM 9-214

Operator's and Organizational Maintenance Manual Radio Sets, AN/VRC-50  
(5820-00-273-7487), AN/VRC-64 (5820-00-273-7485), AN/GRC-50 (5820-00-223-7411  
and ANC/GRC-160 (5820-00-223-7473) and Amplifier Power Supply Groups OA-5633/  
GRC and 3336A/GRC (5820-00-073-3383).....TM 11-5820-498-12

REFERENCES—Continued

0395 00

Operator's and Organizational Maintenance Manual; Radio Set AN/PRC-77.....TM 11-5820-667-12

Operator's and Organizational Maintenance Manual; Suppressor, Electrical Transient,  
MX-7778/GRC.....TM 11-5915-223-12

Operator's Manual: Welding Theory and Application.....TM 9-237

Operator's Manual for Mask, Chemical-Biological: Aircraft, ABC-M24 and Accessories, and  
Mask, Chemical-Biological, Tank, M25A1 and Accessories.....TM 3-4240-280-10

Operator, Organizational, DS, GS, and Depot Maintenance Manual: Welding Set, Arc,  
Inert-Gas Shielded; Plastic or Metal-Lined Gun; for 3/64 Inch Wire; DC, 115 V  
(Westinghouse Model SA-135) (FSN 3431-879-9709).....TM 5-3431-200-15

Operator, Organizational, DS and GS Maintenance Manual; Standards for Inspection and  
Classification of Tracks, Track Components and Solid-Rubber Tires.....TM 9-2350-200-24

Operator's and Organizational Maintenance Manual Including Repair Parts and Special Tools  
List for Decontaminating Apparatus: Portable, 14 Liter, M13 NSN 4230-01-133-4124.....TM 9-4230-214-12&P

Organizational and Direct Support Maintenance Repair Parts and Special Tools Lists  
(Including Depot Maintenance Repair Parts and Special Tools) for Viewers, Driver's Night  
Vision, AN/VVS-2(V)1 (NSN 5855-00-629-5278), AN/VVS-2(V)2 (5855-01-057-1880),  
AN/VVS-2(V)3 (5855-01-105-7793), AN/VVS-2(V)1A (5855-01-096-0871), and AN/  
VVS-2(V)2A (5855-01-096-0872).....TM 11-5855-249-23P

Organizational, 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 Manual (Including Repair  
Parts and Special Tools List) for: Heater, Vehicular Compartment (NSN  
2540-01-396-2826) Model: A-20.....TM 9-2540-207-14&P

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

Organizational Maintenance Repair Parts and Special Tools Lists: Welding Set, Arc, Inert-Gas  
Shielded; Plastic or Metal-Lined Gun; for 3/64-inch Wire; DC, 115V (Westinghouse Model  
SA 135) (FSN 3431-879-9709).....TM 5-3431-200-20P

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

Painting Instructions for Army Materiel.....TM 43-0139

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

Preparation and Inspection of Industrial Equipment for Storage or Shipment.....TM 38-260

Procedures for Destruction of Tank-Automotive Equipment to Prevent Enemy Use (US Army  
Tank-Automotive Command).....TM 750-244-6

Procedures for Destruction of Conventional Ammunition and Improved Conventional  
Munitions to Prevent Enemy Use (Excluding toxic and incapacitating chemical agents for  
combat units).....TM 750-244-5-1

**REFERENCES—Continued**

**0395 00**

Unit Maintenance, Direct Support, and General Support Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools List) for Vehicle: OSV.....TM 9-2350-366-24P

Unit Maintenance Manual (Including Repair Parts and Special Tools List) for Mask, Chemical-Biological: Aircraft, ABC-M24 (NSN 4240-00-808-8799) Small; (4240-00-776-4384) Medium; (4240-00-808-8798) Large; and Mask Chemical-Biological: Tank, M25A1 (4240-00-994-8751) Small (4240-00-994-8750) Medium; (4240-00-994-8752) Large.....TM 3-4240-280-20&P

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

Use of Antifreeze Solutions and Cleaning Compounds in Engine Cooling System.....TM 750-651

Storage Batteries, Lead-Acid Type.....TM 9-6140-200-14

Operator’s Manual for M113/BMP-2 Opposing Forces Surrogate Vehicle (OSV) Hull.....TM 9-2350-366-10-1

Operator’s Manual for M113/BMP-2 Opposing Forces Surrogate Vehicle (OSV) Turret.....TM 9-2350-366-10-2

**LUBRICATION ORDERS**

Lubrication Order for Carriers M113A3.....LO 9-2350-277-12

**MISCELLANEOUS PUBLICATIONS**

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

Army Oil Analysis Program (AOAP).....TB 43-0211

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

Chemical, Biological, Radiological, and Nuclear Defense.....FM 21-40

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

Description, Use, Bonding Techniques, and Properties of Adhesives.....TB ORD 1302

Army Medical Department Expendable/Durable Items.....CTA 8-100

Expendable/Durable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).....CTA 50-970

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

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

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

Mountain Operations.....FM 90-6

Packaging of Army Material for Shipment and Storage.....AR 746-1

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

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

The Army Maintenance Management System (TAMMS).....DA PAM 738-750





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**MAINTENANCE ALLOCATION CHART (MAC)**

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**0396 00****INTRODUCTION****The Army Maintenance System MAC**

This introduction provides a general explanation of all maintenance and repair functions authorized at various maintenance levels under the standard Army Maintenance System concept.

The MAC (immediately following this introduction) 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 shall be consistent with the capacities and capabilities of the designated maintenance levels, which are shown on the MAC in column (4) as:

Unit — includes two subcolumns, C (operator/crew) and O (unit) maintenance.

Direct Support — includes an F subcolumn.

General Support — includes an H subcolumn.

Depot — includes a D subcolumn.

The tools and test equipment requirements (immediately following the MAC) list the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from the MAC.

The remarks (immediately following the tools and test equipment requirements) contain supplemental instructions and explanatory notes for a particular maintenance function.

**Maintenance Functions**

Maintenance functions are 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. sight, sound, or feel). This includes scheduled inspection and gaging and evaluation of cannon tubes.
- (2) **Test.** To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards on a scheduled basis, i.e., load testing of lift devices and hydrostatic testing of pressure hoses.
- (3) **Service.** Operations required periodically to keep an item in proper operating condition; e.g., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases. This includes scheduled exercising and purging of recoil mechanisms.
- (4) **Adjust.** To maintain or regulate, within prescribed limits, by bringing into proper 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 of 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 assigned maintenance level is shown as the third position code of the Source, Maintenance and Recoverability (SMR) code.

- (9) **Repair.** The application of maintenance services, including fault location/troubleshooting, removal/installation, 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.

### NOTE

The following definitions are applicable to the “repair” maintenance function:

- **Services** — Inspect, test, service, adjust, align, calibrate, and/or replace.
- **Fault location/troubleshooting** — The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system or Unit Under Test (ET).
- **Disassembly/assembly** — The step-by-step breakdown (taking apart) of a spare/functional group coded item to the level of its least component, that is assigned an SMR code for the level of maintenance under consideration (i.e., identified as maintenance significant).
- **Actions** — Welding, grinding, riveting, straightening, facing, machining, and/or surfacing.

- (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. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
- (11) **Rebuild.** Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of material maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (e.g., hours/miles) considered in classifying Army equipment/components.

### Explanations of Columns in the MAC

Column (1) — Group Number. Column (1) lists FGC numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the Next Higher Assembly (NHA).

Column (2) — Component/Assembly. Column (2) contains the item names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

Column (3) — Maintenance Function. Column (3) lists the functions to be performed on the item listed in column (2). (For a detailed explanation of these functions refer to “Maintenance Functions” outlined above.)

Column (4) — Maintenance Level. Column (4) specifies each level of maintenance authorized to perform each function listed in column (3), by indicating work time required (expressed as man-hours in whole hours or decimals) in the appropriate subcolumn. This work time figure represents the active time required to perform that maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function varies at different maintenance levels, appropriate work time figures are shown for each level. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the MAC. The symbol designations for the various maintenance levels are as follows:

- C — Operator or crew maintenance
- O — Unit maintenance
- F — Direct support maintenance
- L — Specialized repair activity (SRA)
- H — General support maintenance
- D — Depot maintenance

**NOTE**

**The “L” maintenance level is not included in column (4) of the MAC. Functions to this level of maintenance are identified by a work time figure in the “H” column of column (4), and an associated reference code is used in the REMARKS column (6). This code is keyed to the remarks and the SRA complete repair application is explained there.**

Column (5) — Tools and Equipment Reference Code. Column (5) specifies, by code, those common tool sets (not individual tools), common Test, Measurement and Diagnostic Equipment (TMDE), and special tools, special TMDE, and special support equipment required to perform the designated function. Codes are keyed to the entries in the tools and test equipment table.

Column (6) — Remarks Code. When applicable, this column contains a letter code, in alphabetical order, which is keyed to the remarks table entries.

**Explanation of Columns in the Tools and Test Equipment Requirements**

Column (1) — Tool or Test Equipment Reference Code. The tool or test equipment reference code correlates with a code used in column (5) of the MAC.

Column (2) — Maintenance Level. The lowest level of maintenance authorized to use the tool or test equipment.

Column (3) — Nomenclature. Name or identification of the tool or test equipment.

Column (4) — National Stock Number (NSN). The NSN of the tool or test equipment.

Column (5) — Tool Number. The manufacturer’s part number, model number, or type number.

**Explanation of Columns in the Remarks**

Column (1) — Remarks Code. The code recorded in column (6) of the MAC.

Column (2) — Remarks. This column lists information pertinent to the maintenance function being performed as indicated in the MAC.

MAINTENANCE ALLOCATION CHART FOR OSV HULL

| (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 TRAIN<br>INSTL          | Repair                         |                          | 2.0 |                   |                    |       | 28 29 32 42<br>45                         |                        |
|                        | POWER PLANT<br>ASSY           | Adjust                         |                          | .2  |                   |                    |       | 29 32 61                                  |                        |
|                        |                               | Remove/<br>Install             |                          | 3.7 |                   |                    |       | 28 31 32 36<br>45                         | A                      |
|                        |                               | Replace                        |                          |     |                   |                    |       | 59  |                        |
|                        |                               | Repair                         |                          | 1.3 |                   |                    |       |   |                        |
|                        |                               | Repair                         |                          |     | .5                |                    |       | 26 27 28 31<br>32 36 44 45<br>59 62 66    | A                      |
|                        | ENGINE                        | Inspect                        |                          | .1  |                   |                    |       |   |                        |
|                        |                               | Service                        |                          | .3  |                   |                    |       | 32  |                        |
|                        |                               | Adjust                         |                          | .1  |                   |                    |       |   |                        |
|                        |                               | Remove/<br>Install             |                          | 1.3 |                   |                    |       | 28 29 31 32<br>36 45 59                   |                        |
|                        |                               | Replace                        |                          |     | 6.5               |                    |       | 26 32 31 45<br>58 59                      |                        |
|                        |                               | Repair                         |                          | .3  |                   |                    |       | 32 62 66                                  | B                      |
|                        |                               | Overhaul                       |                          |     |                   |                    | 50.0  |   |                        |
|                        | FRONT VISMOD                  | Remove/<br>Install             |                          | .2  |                   |                    |       |   |                        |
|                        |                               | Replace                        |                          |     | .2                |                    |       |   |                        |
|                        | LEFT VISMOD                   | Remove/<br>Install             |                          | .2  |                   |                    |       |   |                        |
|                        |                               | Replace                        |                          |     | .2                |                    |       |   |                        |
|                        | RIGHT VISMOD                  | Remove/<br>Install             |                          | .2  |                   |                    |       |   |                        |
|                        |                               | Replace                        |                          |     | .2                |                    |       |   |                        |
| 03                     | FUEL SYSTEM                   |                                |                          |     |                   |                    |       |   |                        |
| 0302                   | ENGINE FUEL PUMP<br>ASSY      | Inspect                        |                          | .1  |                   |                    |       |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 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     |   |                        |
| 0304                   | PERSONNEL &<br>COOLANT        | Replace                        |                          |         | .2                |                    |       |   |                        |
|                        |                               | Repair                         |                          | .2      |                   |                    |       |   |                        |
|                        |                               | Replace                        |                          | .6      |                   |                    |       | 32  |                        |
|                        |                               | HEATER FUEL<br>PUMP            | Replace                  |         | .2                |                    |       | 32  |                        |
|                        |                               | AIR CLNR INSTL                 | Remove/<br>Install       |         | .2                |                    |       | 32  |                        |
| 0306                   | AIR CLEANER ASSY              | Replace                        |                          |         |                   |                    |       |   |                        |
|                        |                               | Repair                         |                          | .2      |                   |                    |       | 28 29 32 36                               |                        |
|                        |                               | Replace                        |                          | 5.6     |                   |                    |       | 28 29 32 36                               |                        |
|                        |                               | Repair                         |                          | 4.3     |                   |                    |       | 32  |                        |
|                        |                               | FUEL SYS INSTL                 | Service                  |         | .8                |                    |       | 32  |                        |
| 0309                   | TANK, FUEL, ENG               | Repair                         |                          | .3      |                   |                    |       | 29 32                                     |                        |
|                        |                               | Replace                        |                          | 2.7     |                   |                    |       | 28 29 32 60                               |                        |
|                        |                               | Repair                         |                          |         | 2.4               |                    |       | 9 20 26 32                                |                        |
|                        |                               | PRMRY FUEL<br>FILTER           | Service                  | .1      |                   |                    |       |   |                        |
|                        |                               | 0312                           | SEC FUEL FILTER          | Replace |                   | .1                 |       |   |                        |
| Repair                 |                               |                                |                          | .1      |                   |                    |       |   |                        |
| Service                | .1                            |                                |                          |         |                   |                    |       |   |                        |
| Replace                |                               |                                |                          | .1      |                   |                    |       |   |                        |
| FUEL CNTRL INSTL       | Adjust                        |                                |                          |         | .8                |                    |       |   | 32 44                  |
| 04                     | EXHAUST SYSTEM                | Repair                         |                          |         |                   |                    |       |   |                        |
|                        |                               | Repair                         |                          |         | 1.3               |                    |       | 23 26 32 62                               |                        |
|                        |                               | Repair                         |                          | .7      |                   |                    |       |   |                        |
| 0401                   | EXHAUST SYS<br>INSTL          | Repair                         |                          | .5      |                   |                    |       | 28 29 32 36                               |                        |
|                        |                               | JOINT, DBL FLEX                | Replace                  |         | .7                |                    |       | 28 29 32 36                               |                        |
| 05                     | COOLING SYSTEM                | Repair                         |                          | .8      |                   |                    |       | 28 29 32 36                               |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 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                 |   |                        |
| 0501                   | RADIATOR INSTL                | Service                        | .3                       | .1  |                   |                    |                   | 29 32 47                                  |                        |
|                        |                               | Repair                         |                          | .9  |                   |                    |                   | 28 29 31 32<br>36 45 59                   |                        |
|                        | RADIATOR, ENGINE<br>COOLANT   | Replace                        |                          | 1.0 |                   |                    |                   | 16 28 29 32<br>36                         |                        |
|                        |                               | Repair                         |                          |     |                   | 4.0                |                   | 30 33                                     |                        |
|                        | TANK, AUX RAD                 | Replace                        |                          | .6  |                   |                    |                   | 28 29 32 36                               |                        |
|                        |                               | Repair                         |                          |     |                   | 1.4                |                   | 30 33                                     |                        |
| 0504                   | COOLANT PUMP                  | Replace                        |                          | .9  |                   |                    | 32 35 36 45<br>59 |   |                        |
| 0505                   | DR, VAR FAN, ALT              | Replace                        |                          | 1.0 |                   |                    |                   | 29 32                                     |                        |
|                        |                               | Repair                         |                          |     |                   | 1.5                |                   | 26 32                                     |                        |
|                        | FAN AND DR INSTL              | Inspect                        | .1                       |     |                   |                    |                   |   |                        |
|                        |                               | Adjust                         |                          | .3  |                   |                    |                   | 29 32                                     |                        |
|                        |                               | Repair                         |                          | 1.6 |                   |                    |                   | 28 29 32 36                               |                        |
|                        | FAN ASSEMBLY                  | Service                        | .1                       |     |                   |                    |                   |   |                        |
|                        |                               | Replace                        |                          | 4.5 |                   |                    |                   | 16 28 29 32<br>36                         |                        |
|                        |                               | Repair                         |                          |     | 1.8               |                    |                   |   |                        |
|                        |                               | Repair                         |                          |     |                   |                    | 4.9               | 1 16 26 27<br>28 29 32 36                 |                        |
|                        | FAN GEARBOX                   | Replace                        |                          |     | .8                |                    |                   | 32 26                                     | D                      |
| Repair                 |                               |                                |                          | 2.2 |                   |                    |                   |   |                        |
| FAN SHAFT &<br>BEARING | Replace                       |                                | 1.6                      |     |                   |                    | 32                |   |                        |
|                        | Repair                        |                                |                          |     | .4                |                    | 32 26             |   |                        |
| 06                     | COOLING SYSTEM                |                                |                          |     |                   |                    |                   |   |                        |
| 0601                   | GENERATOR                     | Replace                        |                          | 1.0 |                   |                    |                   | 29 32 62                                  |                        |
|                        |                               | Repair                         |                          |     | 3.0               |                    |                   |   |                        |
| 0602                   | REGULATOR,<br>GENERATOR       | Adjust                         |                          | .1  |                   |                    |                   | 29 32 66                                  |                        |
|                        |                               | Replace                        |                          | 1.0 |                   |                    |                   | 32 62                                     |                        |
| 0603                   | MOTOR, START 24V              | Replace                        |                          | 1.2 |                   |                    |                   | 29 32 62                                  |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 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        |   |                        |
| 0607                    | ELECT INSTL                   | Remove/<br>Install             |                          | .2  |                   |                    |          | 32  |                        |
|                         |                               | Replace                        |                          |     |                   |                    |          |   |                        |
|                         |                               | Repair                         |                          | .5  |                   |                    |          |   |                        |
|                         |                               | Repair                         |                          |     | 1.0               |                    |          | 25 28 29 32<br>34 62 66                   |                        |
|                         | PANEL ASSY, INSTR             | Replace                        |                          | .7  |                   |                    |          | 3 32                                      |                        |
|                         |                               | Repair                         |                          | 1.1 |                   |                    |          | 3 32 66                                   |                        |
|                         | LAMP ASSEMBLY                 | Replace                        |                          | .8  |                   |                    |          | 32 66                                     |                        |
|                         |                               | Repair                         |                          | .4  |                   |                    |          | 32 66                                     |                        |
|                         | LAMP ASSEMBLY                 | Replace                        |                          | 1.1 |                   |                    |          | 32 66                                     |                        |
|                         |                               | Repair                         |                          | .5  |                   |                    |          | 32 66                                     |                        |
|                         | LIGHT, WARNING                | Replace                        |                          | .6  |                   |                    |          | 32 66                                     |                        |
|                         |                               | Repair                         |                          | .4  |                   |                    |          | 28 32 66                                  |                        |
|                         | LIGHT, WARNING                | Replace                        |                          | 1.2 |                   |                    |          | 32 66                                     |                        |
|                         |                               | Repair                         |                          | 1.1 |                   |                    |          | 28 32 66                                  |                        |
|                         | PANEL ASSY, WRG<br>L1         | Replace                        |                          | .1  |                   |                    |          | 32  |                        |
|                         |                               | Repair                         |                          | .4  |                   |                    |          |   |                        |
|                         |                               | Repair                         |                          |     | .6                |                    |          | 17 26 32 66                               |                        |
|                         | LIGHT, WARNING                | Replace                        |                          | .6  |                   |                    |          | 32 66                                     |                        |
|                         |                               | Repair                         |                          | .3  |                   |                    |          | 32  |                        |
|                         | PANEL, MASTER SW              | Replace                        |                          | .3  |                   |                    |          | 32  |                        |
| Repair                  |                               |                                | .7                       |     |                   |                    | 29 32 66 |   |                        |
| DISTRIB BOX<br>ASSEMBLY | Replace                       |                                | .8                       |     |                   |                    | 32       |   |                        |
|                         | Repair                        |                                | 1.7                      |     |                   |                    | 32 66    |   |                        |
| 0608                    | TAIL LIGHT, LEFT              | Replace                        | .3                       |     |                   |                    | 32       |   |                        |
|                         |                               | Repair                         |                          | .2  |                   |                    | 32 66    |   |                        |
|                         | TAIL LIGHT, RIGHT             | Replace                        |                          | .3  |                   |                    | 32       |   |                        |
|                         |                               | Repair                         |                          | .2  |                   |                    | 32 66    |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 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        |   |                        |
| 0609                   | BLKOUT<br>HEADLIGHT           | Replace                        |                          | .5  |                   |                    |          | 32 66                                     |                        |
|                        |                               | Repair                         |                          | .4  |                   |                    |          | 32 66                                     |                        |
|                        | BLKOUT<br>HEADLAMP            | Replace                        |                          | .2  |                   |                    |          | 32  |                        |
|                        |                               | Repair                         |                          | .6  |                   |                    |          | 32 66                                     |                        |
|                        | SERVICE<br>HEADLAMP           | Replace                        |                          | .2  |                   |                    |          | 32  |                        |
|                        |                               | Repair                         |                          | .6  |                   |                    |          | 32 66                                     |                        |
|                        | LAMP ASSY<br>BLKOUT           | Replace                        |                          | .2  |                   |                    |          | 32  |                        |
|                        |                               | Repair                         |                          | .4  |                   |                    |          | 32 66                                     |                        |
|                        | LIGHT, DOME                   | Replace                        |                          | .7  |                   |                    |          | 32  |                        |
|                        |                               | Repair                         |                          | .2  |                   |                    |          | 32  |                        |
| 0612                   | BATTERY, STORAGE              | Service                        |                          | .1  |                   |                    |          |   |                        |
|                        |                               | Service                        |                          |     | .4                |                    |          | 44 62                                     | F                      |
|                        |                               | Replace                        |                          | .6  |                   |                    |          | 29 32                                     | F                      |
|                        |                               | Repair                         |                          |     | 2.0               |                    |          | 34  | F                      |
| 0613                   | WIRING HARNESS                | Replace                        |                          | .7  |                   |                    |          | 62  |                        |
|                        | WIRING HARNESS                | Replace                        |                          | .3  |                   |                    |          | 32 66                                     |                        |
|                        |                               | Repair                         |                          | .9  |                   |                    |          |   |                        |
|                        |                               | Repair                         |                          |     | 1.0               |                    |          | 25 29 32 34<br>66                         |                        |
|                        | WIRING HARNESS                | Replace                        |                          | 1.0 |                   |                    |          | 28 31 32 36<br>45 59 66                   |                        |
|                        |                               | Repair                         |                          | .8  |                   |                    |          |   |                        |
|                        |                               | Repair                         |                          |     | 2.0               |                    |          | 15 25 29 32<br>34 62 66                   |                        |
|                        | WIRE HARNESS,<br>HEAD L1      | Replace                        |                          | .7  |                   |                    |          | 32  |                        |
|                        |                               | Repair                         |                          | .6  |                   |                    |          | 28 32 66                                  |                        |
|                        | CABLE, SPEC<br>PURPOSE        | Replace                        |                          | 1.5 |                   |                    |          | 32 62 66                                  |                        |
| Repair                 |                               |                                | 1.8                      |     |                   |                    | 28 62 66 |   |                        |



MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 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                 |   |                        |
| 0613                    | WIRING HARN<br>BRAN           | Replace                        |                          | 1.0 |                   |                    |                   | 32  |                        |
|                         |                               | Repair                         |                          | .3  |                   |                    |                   | 28 32                                     |                        |
|                         | WIRING HARNESS                | Replace                        |                          | .5  |                   |                    |                   | 32 66                                     |                        |
|                         |                               | Repair                         |                          | .5  |                   |                    |                   | 28 32 66                                  |                        |
|                         | WIRING HARN,<br>BATT          | Replace                        |                          | 1.0 |                   |                    |                   | 32  |                        |
|                         |                               | Repair                         |                          | .4  |                   |                    |                   | 28 32 44 62                               |                        |
|                         | WIRING HARN,<br>FORW          | Replace                        |                          |     |                   | 2.0                |                   | 32  |                        |
|                         |                               | Repair                         |                          | .8  |                   |                    |                   |   |                        |
|                         |                               | Repair                         |                          |     |                   | 1.0                |                   | 25 28 32 34<br>66                         |                        |
|                         | WIRING HARN,<br>BRAN          | Replace                        |                          | .7  |                   |                    |                   | 32 66                                     |                        |
|                         |                               | Repair                         |                          | .5  |                   |                    |                   | 28 32                                     |                        |
|                         | WIRING HARNESS                | Replace                        |                          | 3.1 |                   |                    |                   | 29 66                                     |                        |
|                         |                               | Repair                         |                          | .6  |                   |                    |                   |   |                        |
|                         |                               | Repair                         |                          |     |                   | 1.0                |                   | 25 28 32 65<br>66                         |                        |
|                         | WIRING HARN,<br>TRANS         | Replace                        |                          | .9  |                   |                    |                   | 32 66                                     |                        |
|                         |                               | Repair                         |                          | .9  |                   |                    |                   |   |                        |
|                         |                               | Repair                         |                          |     |                   | .6                 |                   | 25 28 32 66                               |                        |
|                         | WIRING HARNESS                | Replace                        |                          | .4  |                   |                    |                   | 32 66                                     |                        |
| Repair                  |                               |                                | .5                       |     |                   |                    | 28 29 32          |   |                        |
| Replace                 |                               |                                | .9                       |     |                   |                    | 32                |   |                        |
| WIRING HARNESS,<br>BRAN | Repair                        |                                | 1.1                      |     |                   |                    |                   |   |                        |
|                         | Repair                        |                                |                          |     | 1.4               |                    | 15 28 29 32<br>66 |   |                        |
|                         | Replace                       |                                | .5                       |     |                   |                    | 29 63             |   |                        |
| 0616                    | DRIVER'S FAN                  |                                |                          |     |                   |                    |                   |   |                        |
|                         | CREW FAN                      | Replace                        |                          | .5  |                   |                    | 29 63             |   |                        |
| 07                      | TRANSMISSION                  |                                |                          |     |                   |                    |                   |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 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     |   |                           |   |
| 0700                   | MOUNT,<br>TRANSMISSION               | Replace                        |                          | .2  |                   |                    |       | 28 31 29 36<br>45 59                      |                           |   |
|                        |                                      | Repair                         |                          |     | .8                |                    |       | 28 31 32 36<br>45 59                      |                           |   |
|                        | TRANSMISSION                         | Service                        | .4                       | .1  |                   |                    |       | 32 44                                     | C                         |   |
|                        |                                      | Adjust                         |                          | .9  |                   |                    |       | 14 28 29 32                               | C                         |   |
|                        |                                      | Replace                        |                          |     | 1.9               |                    |       | 26 32 58 59                               |                           |   |
|                        |                                      |                                | Repair                   |     |                   | 67.1               |       |   | 5 28 31 32<br>36 44 59 66 | C |
|                        |                                      |                                | Overhaul                 |     |                   |                    |       | 50.0                                      |                           |   |
| 0705                   | CNTRLLR, TRANS,<br>EL                | Replace                        |                          | 1.0 |                   |                    |       | 3 32 66                                   |                           |   |
|                        |                                      | Repair                         |                          | .7  |                   |                    |       | 32 66                                     |                           |   |
| 0708                   | TOW, START &<br>CONTR                | Adjust                         |                          | .2  |                   |                    |       | 32  |                           |   |
|                        |                                      | Repair                         |                          | .4  |                   |                    |       | 28 32                                     |                           |   |
| 08                     | TRANSFER & FINAL<br>DRIVE ASSEMBLIES |                                |                          |     |                   |                    |       |   |                           |   |
| 0801                   | FINAL DRIVE                          | Service                        | .1                       |     |                   |                    |       |   |                           |   |
|                        |                                      | Replace                        |                          | 1.6 |                   |                    |       | 29 32 42                                  |                           |   |
|                        |                                      | Repair                         |                          | .5  |                   |                    |       |   |                           |   |
|                        |                                      | Repair                         |                          |     |                   | 11.5               |       | 4 32                                      |                           |   |
| 12                     | BRAKE ASSEMBLY                       |                                |                          |     |                   |                    |       |   |                           |   |
| 1206                   | BRAKE INSTL                          | Inspect                        |                          | .8  |                   |                    |       | 29 32 44                                  |                           |   |
|                        |                                      | Adjust                         |                          | .4  |                   |                    |       | 29 32                                     |                           |   |
|                        |                                      | Repair                         |                          | .8  |                   |                    |       | 2 29 32                                   |                           |   |
|                        | LEVER ASSY<br>PARKING                | Replace                        |                          | .5  |                   |                    |       | 32  |                           |   |
|                        |                                      | Repair                         |                          | .5  |                   |                    |       | 32  |                           |   |
| 13                     | WHEELS & TRACKS                      |                                |                          |     |                   |                    |       |   |                           |   |
| 1301                   | SUSPENSION INSTL                     | Service                        | .1                       |     |                   |                    |       |   |                           |   |
|                        |                                      | Adjust                         | .1                       |     |                   |                    |       |   |                           |   |
|                        |                                      | Repair                         |                          | .7  |                   |                    |       |   |                           |   |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 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                   |                               | Repair                         |                          |     | .3                |                    |          | 10 11 12 13<br>21 22 26 28<br>29 32 41 46<br>49 52 54 63<br>64 |                        |
|                        | ROAD WHEEL SPT                | Repair                         |                          | 2.3 |                   |                    |          | 1 29 32 49<br>52 53 54 55<br>64                                |                        |
|                        | HUB ASSEMBLY                  | Replace                        |                          | 2.0 |                   |                    |          | 29 32 37 38<br>52  |                        |
|                        | ARM SUPPORT                   | Repair                         |                          | .1  |                   |                    |          | 32   |                        |
|                        |                               | Replace                        |                          | 3.8 |                   |                    |          | 10 28 32 52<br>59  |                        |
|                        | HUB ASSY                      | Repair                         |                          | 3.8 |                   |                    |          | 28 32 52 54<br>59  |                        |
|                        |                               | Replace                        |                          | 2.3 |                   |                    |          | 29 32 37 38<br>52  |                        |
|                        | ARM SUPPORT                   | Repair                         |                          | .1  |                   |                    |          | 32   |                        |
|                        |                               | Replace                        |                          | 3.8 |                   |                    |          | 29 32 41 49<br>52 54 59 64                                     |                        |
|                        | HUB ASSY                      | Repair                         |                          | 3.8 |                   |                    |          | 28 32 52 54  |                        |
|                        |                               | Replace                        |                          | 2.0 |                   |                    |          | 29 32 37 38<br>52  |                        |
|                        | SPT ASSY SPNSN                | Repair                         |                          | .1  |                   |                    |          | 32   |                        |
|                        |                               | Repair                         |                          | 1.0 |                   |                    |          | 29 32 41 49<br>52 53 54 55<br>64                               |                        |
|                        | SPT ARM SPNSN                 | Repair                         |                          | 2.2 |                   |                    |          | 8 29 32 41<br>49 52 53 54<br>55 64                             |                        |
|                        | TRACK ADJUSTER                | Replace                        |                          | .9  |                   |                    |          | 29 32 46   |                        |
|                        |                               | Repair                         |                          |     |                   | 1.1                |          | 26 32  |                        |
|                        | IDLER ARM ASSY                | Replace                        |                          | 1.0 |                   |                    |          | 29 32  |                        |
|                        |                               | Repair                         |                          | 1.9 |                   |                    |          |  |                        |
| ARM IDLER              | Repair                        |                                |                          |     | 1.0               |                    | 32 37 53 |  |                        |
|                        | Replace                       |                                |                          |     | .3                |                    | 32       |  |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 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     |   |                        |
| 1305                   | TRACK ASSY LEFT                | Repair                         |                          |     | .2                |                    |       | 32  |                        |
|                        |                                | Remove/<br>Install             |                          | 4.7 |                   |                    |       | 32 43 48 50                               |                        |
|                        |                                | Repair                         | .3                       | .5  |                   |                    |       | 29 32                                     |                        |
|                        | TRACK ASSY RIGHT               | Remove/<br>Install             |                          | 4.7 |                   |                    |       | 32 43 48 50<br>51 64                      | E                      |
|                        |                                | Replace                        |                          |     |                   |                    |       |   |                        |
|                        |                                | TRACK SHOE                     | Replace                  |     | .6                |                    |       | 32 29 48 50<br>51                         | E                      |
| 1311                   | ROAD WHEEL                     | Repair                         | .3                       | .2  |                   |                    |       | 29 32                                     |                        |
|                        |                                | Replace                        |                          | .6  |                   |                    |       | 29 32 52                                  |                        |
|                        |                                | Repair                         |                          |     |                   |                    | .5    |   |                        |
| 14                     | STEERING                       |                                |                          |     |                   |                    |       |   |                        |
| 1401                   | STEERING INST                  | Adjust                         |                          | 1.2 |                   |                    |       | 32  |                        |
|                        |                                | Repair                         |                          | 1.4 |                   |                    |       | 3 29 32 66                                |                        |
|                        |                                | BRACKET BEARING<br>STE         | Service                  | .1  |                   |                    |       |   |                        |
|                        | HOUSING, BEARING               | Replace                        |                          | .5  |                   |                    |       | 32  |                        |
|                        |                                | Repair                         |                          |     | .1                |                    |       | 26 32                                     |                        |
|                        |                                | Service                        | .1                       |     |                   |                    |       |   |                        |
| 15                     | TOWING<br>ATTACHMENTS          | Replace                        |                          | .7  |                   |                    |       | 29 32                                     |                        |
|                        |                                | Repair                         |                          |     | .1                |                    |       | 7 8 17 19<br>26 32                        |                        |
|                        |                                |                                |                          |     |                   |                    |       |   |                        |
| 16                     | SPRINGS AND<br>SHOCK ABSORBERS |                                |                          |     |                   |                    |       |   |                        |
| 1604                   | SHOCK ABSORBER                 | Replace                        |                          | .4  |                   |                    |       | 29 32 52 54                               |                        |
|                        |                                | Repair                         |                          |     | .5                |                    |       | 26 32 56 57                               |                        |
| 18                     | HULL                           |                                |                          |     |                   |                    |       |   |                        |
| 1801                   | HULL, WELDED                   | Repair                         |                          | 1.6 |                   |                    |       |   |                        |
|                        |                                | Repair                         |                          |     | 4.1               |                    |       | 23 31 32 33                               |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 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          |   |                        |
| 1801                         | VISION BLK CVR<br>ASSY        | Replace                        |                          | .1  |                   |                    |            | 100                                       |                        |
|                              |                               | Repair                         |                          | .1  |                   |                    |            |   |                        |
|                              | HATCH                         | Repair                         |                          |     |                   |                    |            | 98 100                                    |                        |
|                              | HULL SUB-ASSY                 | Repair                         |                          | .2  |                   |                    |            |   |                        |
|                              |                               | Repair                         |                          |     | .4                |                    |            | 9 20 23 26<br>28 29 32 36                 |                        |
|                              | COVER, ACCESS,<br>ENG         | Replace                        |                          | .2  |                   |                    |            |   |                        |
|                              |                               | Repair                         |                          | 1.0 |                   |                    |            | 32  |                        |
|                              | COVER, ENG<br>COMPAR          | Replace                        |                          |     | .1                |                    |            |   |                        |
|                              |                               | Repair                         |                          | .4  |                   |                    |            | 32  |                        |
|                              | COVER, ENG<br>COMPAR          | Replace                        |                          | .2  |                   |                    |            |   |                        |
|                              |                               | Repair                         |                          | 1.0 |                   |                    |            | 32  |                        |
|                              | HATCH INST<br>DRIVERS         | Repair                         |                          | .3  |                   |                    |            |   |                        |
|                              |                               | Repair                         |                          |     | .5                |                    |            | 23 32 33                                  |                        |
|                              | DOORS INSTL PP<br>GRILLE ASSY | Repair                         |                          | .3  |                   |                    |            | 16 28 29 32                               |                        |
|                              |                               | Remove/<br>Install             |                          | 3.1 |                   |                    |            | 28 29 32 36                               |                        |
|                              | Replace                       |                                |                          |     |                   |                    | 2.2        |   |                        |
|                              | Repair                        |                                |                          |     |                   |                    | 1.0        |   |                        |
| DOOR, PWR PLANT              | Replace                       |                                | .3                       |     |                   |                    | 16 29 32   |   |                        |
|                              | Repair                        |                                | .8                       |     |                   |                    | 32         |   |                        |
| PWR TRAIN MTG<br>PRO         | Repair                        |                                |                          | .4  |                   |                    | 9 20 26 32 |   |                        |
| AIR CLNR MTG PRO             | Repair                        |                                |                          | .3  |                   |                    | 26 32      |   |                        |
| 1803<br>DRIVER HATCH<br>ASSY | Replace                       |                                | 1.3                      |     |                   |                    |            |   |                        |
|                              | Replace                       |                                |                          |     | 1.3               |                    | 100        |   |                        |
|                              | Repair                        |                                | 1.4                      |     |                   |                    |            |   |                        |
|                              | Repair                        |                                |                          |     | .6                |                    | 23 33      |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 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     |   |                        |
| 1806                   | YOKE ASSY,<br>DRIVER             | Replace                        |                          | .1  |                   |                    |       | 32  |                        |
|                        | YOKE SUPPORT<br>ASSY             | Replace                        |                          | 1.9 |                   |                    |       | 100                                       |                        |
|                        |                                  | Repair                         |                          |     |                   |                    |       |   |                        |
|                        | ACTUATOR DVR<br>HATCH            | Adjust                         |                          | .3  |                   |                    |       | 100                                       |                        |
|                        |                                  | Replace                        |                          | .3  |                   |                    |       |   |                        |
|                        | SAFETY LOCK,<br>DRIVER HATCH     | Replace                        |                          | .5  |                   |                    |       | 100                                       |                        |
|                        | CUSHION PAD,<br>DRIVER HATCH     | Replace                        |                          | .4  |                   |                    |       | 100                                       |                        |
|                        | DRIVER'S HATCH,<br>INSTL         | Adjust                         |                          | .1  |                   |                    |       |   |                        |
|                        |                                  | Adjust                         |                          |     | 1.3               |                    |       | 29  |                        |
|                        | SEATS PLATE INSTL                | Repair                         |                          | .6  |                   |                    |       | 29  |                        |
|                        | SEATS & BACKREST<br>ASSEMBLY     | Replace                        |                          | .6  |                   |                    |       | 29  |                        |
|                        |                                  | Repair                         |                          | .6  |                   |                    |       | 29  |                        |
|                        | SEATBACK<br>ASSEMBLY,<br>DRIVERS | Replace                        |                          | .1  |                   |                    |       | 29  |                        |
|                        |                                  | Repair                         |                          | .1  |                   |                    |       | 29  |                        |
|                        | POST ASSY<br>DRIVER'S            | Replace                        |                          | .6  |                   |                    |       | 29  |                        |
|                        |                                  | Repair                         |                          | .7  |                   |                    |       | 29  |                        |
| SEAT BACK<br>CUSHION   | Replace                          |                                | .1                       |     |                   |                    | 29    |   |                        |
|                        | Repair                           |                                | .1                       |     |                   |                    | 29    |   |                        |
| SEAT, TROOP,<br>BENCH  | Replace                          |                                | .3                       |     |                   |                    | 100   |   |                        |
|                        | Repair                           |                                | .2                       |     |                   |                    | 100   |   |                        |
| 1805                   | FLOOR PLATES                     | Replace                        |                          | 1.3 |                   |                    |       | 100                                       |                        |
|                        |                                  | Repair                         |                          | .5  |                   |                    |       | 100                                       |                        |
| 1808                   | STOWAGE INSTL                    | Inspect                        |                          | .5  |                   |                    |       |   |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 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             |                          | .1  |                   |                    |       | 29  |                        |
|                        |   | Repair                         |                          | .3  |                   |                    |       | 28 29                                     |                        |
|                        | BOX ASSY<br>PERISCOPE                     | Replace                        |                          | .1  |                   |                    |       | 29  |                        |
|                        |   | Repair                         |                          | .7  |                   |                    |       | 29  |                        |
|                        | MISCELLANEOUS<br>HULL<br>ACCESSORIES      |                                |                          |     |                   |                    |       |   |                        |
| 2205                   | BILGE PUMP INSTL<br>PUMP UNIT,<br>CENTRIF | Service                        |                          | .1  |                   |                    |       | 32  |                        |
|                        |   | Replace                        |                          | .6  |                   |                    |       | 28 32 66                                  |                        |
| 26                     | ENGINE &<br>TRANSMISSION                  |                                |                          |     |                   |                    |       |   |                        |
| 2604                   | SLING, ENG &<br>TRANS                     | Inspect                        |                          | .1  |                   |                    |       | 28 32                                     |                        |
|                        |   | Test                           |                          |     | .8                |                    |       | 32  |                        |
|                        |   | Repair                         |                          | .1  |                   |                    |       |   |                        |
|                        |   | Repair                         |                          |     | 1.7               |                    |       | 23 32 33                                  |                        |
|                        | STAND, ENG &<br>TRANS                     | Service                        |                          |     | .1                |                    |       | 26  |                        |
|                        |   | Adjust                         |                          |     | .2                |                    |       | 32  |                        |
|                        |   | Repair                         |                          |     | 1.3               |                    |       | 23 26 32 33                               |                        |
| 33                     | SPECIAL PURPOSE<br>KITS                   |                                |                          |     |                   |                    |       |   |                        |
| 3301                   | SHIPPING<br>CONTAINERS,<br>ENGINE         | Replace                        |                          | .2  |                   |                    |       |   |                        |
|                        |   | Replace                        |                          |     | .2                |                    |       | 32  |                        |
|                        |   | Repair                         |                          | 1.5 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          |     | 1.5               |                    |       | 32  |                        |
| 3303                   | HEATER KIT,<br>ENGINE COOLANT             | Service                        |                          | .2  |                   |                    |       | 29 32                                     |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 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              |                    |       | 34  |                        |
|                        |                               | Repair                         |                          | .3  |                   |                    |       | 28 29 32 36<br>66                         |                        |
|                        | COOLANT HEATER                | Test                           |                          |     | .8                |                    |       | 26 34                                     |                        |
|                        |                               | Adjust                         |                          | .5  |                   |                    |       | 29 31 32 36<br>45 59                      |                        |
|                        |                               | Remove/<br>Install             |                          | 3.3 |                   |                    |       | 29 31 32 36<br>45 59                      |                        |
|                        |                               | Replace                        |                          | 4.0 |                   |                    |       | 29 31 32 36<br>45 59                      |                        |
|                        |                               | Repair                         |                          | .7  |                   |                    |       |   |                        |
|                        |                               | Repair                         |                          |     | .3                |                    |       | 25 26 28 29<br>31 32 34 36<br>45 59       |                        |
|                        | HTR CONTROL BOX               | Replace                        |                          | .5  |                   |                    |       | 32  |                        |
|                        |                               | Repair                         |                          | 1.9 |                   |                    |       | 32 66                                     |                        |
|                        | HTR KIT, INST PERS            | Service                        |                          | .2  |                   |                    |       | 32  |                        |
|                        |                               | Remove/<br>Install             |                          |     | 8.0               |                    |       | 32 34                                     |                        |
|                        |                               | Repair                         |                          | .8  |                   |                    |       | 32 66                                     |                        |
|                        | CONTROL BOX<br>ASSY           | Replace                        |                          |     | .1                |                    |       | 32  |                        |
|                        |                               | Repair                         |                          |     | .1                |                    |       | 32 66                                     |                        |
|                        | HEATER,<br>VEHICULAR          | Replace                        |                          | 1.0 |                   |                    |       |   |                        |
|                        |                               | Replace                        |                          |     | 3.0               |                    |       |   |                        |
|                        |                               | Repair                         |                          | 1.0 |                   |                    |       |   |                        |
|                        |                               | Repair                         |                          |     | 3.0               |                    |       |   |                        |
|                        | DUCT ASSY                     | Replace                        |                          | .2  |                   |                    |       | 32  |                        |
|                        |                               | Repair                         |                          | .2  |                   |                    |       | 32  |                        |
|                        | BOX, CONTROL,<br>HEATER       | Replace                        |                          | .2  |                   |                    |       | 32  |                        |
|                        |                               | Repair                         |                          | .2  |                   |                    |       | 32  |                        |



MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 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                   | FILTER, FUEL                  | Service                        |                          | .2  |                   |                    |       | 32  |                        |
|                        |                               | Replace                        |                          | .3  |                   |                    |       | 32  |                        |
|                        | HEATER, COOLANT               | Replace                        |                          | .4  |                   |                    |       | 32  |                        |
|                        |                               | Repair                         |                          |     | 1.2               |                    |       | 32 26                                     |                        |
|                        | HEATER,<br>PERSONNEL          | Replace                        |                          | .3  |                   |                    |       | 32  |                        |
|                        |                               | Repair                         |                          |     |                   |                    |       |   |                        |
|                        | PUMP, FUEL,<br>HEATERS        | Service                        |                          | .1  |                   |                    |       | 32  |                        |
|                        |                               | Replace                        |                          | .2  |                   |                    |       | 32  |                        |
|                        | HEATER CONTROL<br>BOX         | Replace                        |                          | .5  |                   |                    |       | 32  |                        |
|                        |                               | Repair                         |                          | 1.9 |                   |                    |       | 32 66                                     |                        |
|                        | FUEL SUPPLY<br>ADAPTER KIT    | Repair                         |                          |     | .5                |                    |       | 32  |                        |
|                        |                               | Replace                        |                          |     | .6                |                    |       | 32  |                        |
|                        | PERSONNEL<br>HEATER KIT       | Replace                        |                          |     | 10.0              |                    |       | 32 26                                     |                        |
|                        |                               | Repair                         |                          |     | 10.6              |                    |       | 32 26                                     |                        |
|                        |                               | Replace                        |                          |     |                   |                    |       |   |                        |
| 47                     | DRIVER'S WINDSH               | Remove/<br>Install             | .1                       | .2  |                   |                    |       | 32  |                        |
|                        |                               | Repair                         |                          | .1  |                   |                    |       | 32  |                        |
| 4701                   | GAUGES<br>(NON-ELECTRICAL)    | Repair                         |                          | 1.2 |                   |                    |       | 32  |                        |
| 4701                   | SPDOM TACH<br>CABLE           | Service                        |                          | .3  |                   |                    |       | 32  |                        |
|                        |                               | Replace                        |                          | 1.2 |                   |                    |       | 32  |                        |
|                        | Repair                        |                                | .7                       |     |                   |                    | 32    |   |                        |
|                        | SPEEDOMETER<br>CABLE          | Service                        |                          | .3  |                   |                    |       | 32  |                        |
|                        |                               | Replace                        |                          |     | .5                |                    |       | 32  |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 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                         |                          | .7  |                   |                    |       | 32  |                        |
|                        | SHAFT, ASSEMBLY                          | Replace                        |                          | .5  |                   |                    |       |   |                        |
|                        | FLEXIBLE<br>SPEEDOMETER OR<br>TACHOMETER | Repair                         |                          | .2  |                   |                    |       |   |                        |
| 6401                   | VENT FAN INSTL                           | Repair                         |                          | .2  |                   |                    |       | 100 28                                    |                        |
| 67                     | STE-ICE                                  |                                |                          |     |                   |                    |       |   |                        |
| 6715                   | STE-ICE INSTALL                          | Repair                         |                          | 1.5 |                   |                    |       | 32 62                                     |                        |
| 6809                   | COMM. EQPT.<br>INSTL.                    | Inspect                        |                          | .1  |                   |                    |       | 81 61                                     |                        |
|                        |  | Repair                         |                          |     |                   |                    |       |   |                        |
|                        | ANTENNA, RADIO                           | Replace                        |                          | .1  |                   |                    |       | 100                                       |                        |
|                        | CONT., INTERCOM<br>SET                   | Replace                        |                          | .1  |                   |                    |       | 61  |                        |
|                        | AMP AUDIO FREQ                           | Replace                        |                          | .1  |                   |                    |       | 61  |                        |
|                        |  | Repair                         |                          |     |                   |                    |       | 61 62 65 66<br>75 76 77 79<br>96 104      |                        |
|                        | JUNCTION BOX<br>ASSY                     | Replace                        |                          | .1  |                   |                    |       | 62  |                        |
|                        |  | Repair                         |                          |     |                   |                    |       |   |                        |
|                        | RADIO SET AN/VRC<br>46                   | Replace                        |                          | .1  |                   |                    |       |   |                        |
|                        | RADIO AN/GRC-160                         | Replace                        |                          | .1  |                   |                    |       |   |                        |
|                        | DISTRIB BOX<br>STE-ICE                   | Replace                        |                          | .6  |                   |                    |       | 32 62                                     |                        |
|                        |  | Repair                         |                          |     | 1.1               |                    |       | 32 34                                     |                        |
|                        | WIRING HARN<br>CREW                      | Replace                        |                          | 2.3 |                   |                    |       | 29 32 62                                  |                        |
|                        |  | Repair                         |                          | .6  |                   |                    |       | 29 32 62                                  |                        |
|                        | WIRING HARN<br>STE-ICE                   | Replace                        |                          | 5.0 |                   |                    |       | 28 31 32 36<br>45 59 62                   |                        |
|                        |  | Repair                         |                          | 1.1 |                   |                    |       |   |                        |
|                        |  | Repair                         |                          |     | 1.0               |                    |       | 25 26 29 32<br>34 62                      |                        |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 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     |   |                        |
| 76                     | FIXED FIRE<br>EXTINGUISHER<br>SYSTEM    |                                |                          |    |                   |                    |       |   |                        |
| 7603                   | CONTROLS, FIXED<br>FIRE<br>EXTINGUISHER | Adjust                         |                          | .2 |                   |                    |       |   |                        |
|                        |   | Replace                        |                          | .4 |                   |                    |       |   |                        |
|                        |   | Repair                         |                          | .5 |                   |                    |       |   |                        |
|                        | CYLINDER                                | Service                        |                          |    | .4                |                    |       |   |                        |
|                        |   | Replace                        |                          | .2 |                   |                    |       |   |                        |
|                        |   | Test                           |                          | .2 |                   |                    |       |   |                        |
| 7638                   | PORTABLE FIRE<br>EXTINGUISHER           | Inspect                        | .1                       |    |                   |                    |       |   |                        |
|                        |   | Service                        |                          |    | .5                |                    |       |   |                        |
| 7639                   | EXT INSTL FXD<br>FIRE                   | Replace                        |                          | .1 |                   |                    | 28 32 |   |                        |
|                        |   | Repair                         |                          | .2 |                   |                    | 26 32 |   |                        |
|                        | CYLNR,<br>COMPRESS GAS                  | Service                        |                          |    | .1                |                    | 32    |   |                        |
|                        |   | Replace                        |                          | .1 |                   |                    | 28 32 |   |                        |

## MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 00

## TOOLS AND TEST EQUIPMENT REQUIREMENTS

| EQUIPMENT<br>REF CODE | MAINTENANCE<br>LEVEL | NOMENCLATURE           | NATIONAL<br>STOCK NUMBER | TOOL<br>NUMBER   |
|-----------------------|----------------------|------------------------|--------------------------|------------------|
| 1                     | F                    | SOCKET, SOCKET WRENCH  | 5120-00-261-2818         | YA-396           |
| 2                     | O                    | CROWFOOT ATTACHMENT    | 5120-00-184-8397         | AN8506-3         |
| 3                     | O                    | PLIERS, ELEC CON       | 5120-00-624-8065         | AT508K           |
| 4                     | O                    | WRENCH, TORQUE         | 5120-00-542-5681         | B58              |
| 5                     | F                    | WRENCH, SPANNER        | 5120-01-263-3623         | CRB2112D         |
| 6                     | F                    | WRENCH, INSERT         | 5120-01-250-6420         | CRB2112WIS       |
| 7                     | F                    | INSERTER, SCREW THREAD | 5120-01-163-1425         | CR06W            |
| 8                     | F                    | INSERTER, SCREW THREAD | 5340-01-153-1860         | CR08W            |
| 9                     | F                    | INSERTER, SCREW THREAD | 5120-01-163-9922         | CR10W            |
| 10                    | O F                  | INSERTER, SCREW THREAD | 5120-01-159-6487         | CR12W            |
| 11                    | F                    | INSERTER, SCREW THREAD | 5120-01-254-1497         | CR13W            |
| 12                    | F                    | DRILL, TWIST           | 5133-00-228-1351         | GGG-D-751        |
| 13                    | F                    | DRILL, TWIST           | 5133-00-713-6942         | GGGD751          |
| 14                    | O                    | ADJ, STEER CENTERING   | 2530-01-249-6439         | J35223           |
| 15                    | O F                  | CRIMPING TOOL TERMINAL | 5120-00-432-7836         | MY28             |
| 16                    | O F                  | SLING, ENDLESS         | 3940-00-675-5003         | PD101-96         |
| 17                    | F                    | INSERTER, BEARING AN   | 5120-00-708-2641         | R108D            |
| 18                    | F                    | DRIVE TOOL, LOCKRING   | 5120-01-165-0488         | R112D            |
| 19                    | F                    | INSERTER, BEARING AN   | 5120-00-473-7014         | R206D            |
| 20                    | F                    | INSERTER, BEARING      | 5120-00-473-7017         | R210D            |
| 21                    | F                    | INSERTER, BEARING AN   | 5120-00-378-4276         | R212D            |
| 22                    | F                    | INSERTER, BEARING AN   | 5120-01-249-6363         | R213D            |
| 23                    | F                    | WELDING SHOP, TLRMTD   | ****_**_***_****         | SC3431-95-CL-A01 |
| 24                    | F D                  | SHOP EQUIP, MACH BSC   | 3470-00-754-0708         | SC3470-95-CL-A02 |
| 25                    | F H                  | SHOP EQUIP, F/E BSC    | 4940-00-754-0714         | SC4910-95-CL-A01 |
| 26                    | O                    | TOOL KIT, AUTO MAINT   | 4910-00-754-0705         | SC4910-95-CL-A31 |
| 27                    | F                    | SHOP EQUIP, SUPPL #1   | 4910-00-754-0706         | SC4910-95-CL-A62 |
| 28                    | O F D                | SHOP EQUIP, COM #2     | 4910-00-754-0650         | SC4910-95-CL-A72 |
| 29                    | O F                  | SHOP EQUIP, COM #1     | 4910-00-754-0654         | SC4910-95-CL-A74 |
| 30                    | F H                  | SHOP EQUIP RDTR T/R    | 4910-00-071-0747         | SC4910-95-CL-A76 |
| 31                    | O                    | TOOL SET, SUPPL #2     | 4940-00-754-0743         | SC4940-95-CL-A08 |
| 32                    | O F H                | TOOL KIT, GEN MECH     | 5180-00-177-7033         | SC5180-90-CL-N26 |

## MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 00

| EQUIPMENT<br>REF CODE | MAINTENANCE<br>LEVEL | NOMENCLATURE             | NATIONAL<br>STOCK NUMBER | TOOL<br>NUMBER   |
|-----------------------|----------------------|--------------------------|--------------------------|------------------|
| 33                    | F                    | TOOL KIT, BODY & FEN     | 5180-00-754-0643         | SC5180-90-CL-N34 |
| 34                    | F H                  | TOOL KIT, AUTO F/E       | **** _**_****_****       | SC5180-95-CL-B08 |
| 35                    | O                    | TESTING KIT, RAD         | 4910-00-728-8227         | ST255            |
| 36                    | O F                  | CALKING GUN              | 5120-00-679-5655         | 101              |
| 37                    | O                    | SPACER, RING             | 5365-00-004-0763         | 10863001         |
| 38                    | O                    | REPLACER, GREASE CAP     | 5120-00-678-2796         | 10863002         |
| 39                    | O                    | ADAPTER, TORQUE WRENCH   | 5120-00-977-7421         | 10917666         |
| 40                    | F                    | TOOL KIT, THREAD INS     | 5180-00-966-5961         | 10932474         |
| 41                    | O                    | SOCKET WRENCH ATTACH     | 5120-00-053-3625         | 10932504         |
| 42                    | O                    | BAR, LIFTING FINAL DRIVE | 5120-00-918-0586         | 11589384         |
| 43                    | O                    | ADAPTER                  | 5120-00-933-8458         | 11592843         |
| 44                    | O                    | GAUGE, OIL TESTER        | 6695-01-242-6795         | 11650182         |
| 45                    | O F                  | ADAPTER, TORQUE WRENCH   | 5120-00-213-6976         | 11663358-1       |
| 46                    | O                    | ADAPTER, TORQUE WRENCH   | 5120-00-215-8200         | 11663358-2       |
| 47                    | O                    | CLEANING POOL, RADIATOR  | 4910-00-611-6559         | 11678393         |
| 48                    | O                    | PUNCH, DRIVE PIN         | 5120-01-006-8847         | 11678718         |
| 49                    | O                    | ADAPTER, TORSION BAR     | 5120-01-017-5328         | 12251805         |
| 50                    | O                    | FIXTURE, TRACK CONNECTOR | 5120-01-041-4624         | 12253183         |
| 51                    | O                    | GAUGE                    | 5120-01-041-9920         | 12253280         |
| 52                    | O                    | LIFTER, ROADWHEEL        | 5120-01-062-5607         | 12268612         |
| 53                    | O                    | REPLACE, IDLER BAR       | 5120-01-102-4627         | 12269371         |
| 54                    | O                    | REMOVAL TOOL, SHOCK      | 5120-01-102-4628         | 12269380         |
| 55                    | O                    | REMOVER AND REPLACE      | 4910-01-128-0092         | 12269522         |
| 56                    | F                    | POSITIONER, BEARING      | 4910-01-128-0093         | 12313101         |
| 57                    | F                    | STAKER, BEARING          | 4910-01-128-0094         | 12313102         |
| 58                    | F                    | STAND, ENGINE AND TRANS  | 4910-01-239-6836         | 12349616         |
| 59                    | O F                  | SLING, ENGINE AND TRANS  | 1450-01-240-2206         | 12350306         |
| 60                    | O                    | BRACKET, ANGLE, LIFTING  | 5340-01-264-5991         | 12354718         |
| 61                    | O                    | TENSIOMETER, V-BELT      | 6635-00-921-6255         | 12998F           |
| 62                    | O                    | TEST SET, STE/ICE        | 4910-01-222-6589         | 12259266         |
| 63                    | F                    | SOCKET, TAPER SHANK      | 3460-00-227-7520         | 51132TY3CL1SIZE  |
| 64                    | O                    | PULLER, MECHANICAL       | 5120-00-557-3615         | 5573615          |
| 65                    | O                    | MULTIMETER               | 6625-01-139-2512         | T00377           |

## MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 00

| EQUIPMENT<br>REF CODE | MAINTENANCE<br>LEVEL | NOMENCLATURE                      | NATIONAL<br>STOCK NUMBER | TOOL<br>NUMBER    |
|-----------------------|----------------------|-----------------------------------|--------------------------|-------------------|
| 66                    | O F                  | MULTIMETER                        | 6625-01-265-6000         | 27/FMW/ACCE       |
| 67                    | H                    | ADAPTER, NEEDLE VALVE             | 4910-00-764-5626         | A-A-1395          |
| 68                    | O                    | TESTER, AIR FLOW, GAS<br>FILTER   | 6680-00-436-4212         | E5-77-2120        |
| 69                    | O F D                | TOOL KIT, RADIO EQUIPMENT         | 5180-00-064-5178         | TK-101/G          |
| 70                    | O F D                | TOOL KIT, ELECTRONIC<br>EQUIPMENT | 5180-00-610-8177         | TK-105/G          |
| 71                    | F                    | REMOVAL TOOL                      | 5120-01-116-6114         | DRK83-16          |
| 72                    | F                    | REMOVAL TOOL                      | 5120-01-116-6116         | DRK83-16          |
| 73                    | D                    | ACCEPT TEST PROC                  | **** _**_***_****        | D13606            |
| 74                    | D                    | POWER AMP OR EQUIV                | 6625-00-427-9020         | ELGAR251          |
| 75                    | D                    | TEST FIXTURE                      | **** _**_***_****        | ETF1230227-1TD    |
| 76                    | D                    | FUNCT GEN OR EQUIV                | 6625-00-028-4989         | HP-3312A          |
| 77                    | D                    | PWR SUPPLY 0/40VDCIV              | 6130-00-463-4638         | HP-6200B          |
| 78                    | D                    | AUDIO ANALYZER                    | **** _**_***_****        | HP8903            |
| 79                    | D                    | DIGITAL VOM OR EQ                 | **** _**_***_****        | KIETHLEY 177      |
| 80                    | D                    | PURGING KIT                       | 4931-00-065-1110         | SC931-95-CL-J54   |
| 81                    | C                    | LINE, TELEPHONE                   | 5805-00-543-0012         | SMD-283351        |
| 82                    | C                    | LINE, FIELD                       | **** _**_***_****        | TA312             |
| 83                    | F D                  | PLATE, ALIGNMENT, ITA             | 4931-00-075-2738         | 12277609          |
| 84                    | F D                  | ALIGN, FIX. SUPPORT               | 5120-01-075-2738         | 12277610          |
| 85                    | O F D                | KIT, TURRET REMOVAL               | 4910-01-086-6796         | 12277677          |
| 86                    | F D                  | TOOL KIT, CABLE RPR               | 2590-01-205-5998         | 12311803          |
| 87                    | O F D                | TEST SET, CONT BOX                | 2590-01-205-6000         | 12311806          |
| 88                    | F D                  | TOOL KIT, CABLE RPR               | 2590-01-139-9673         | 12311946          |
| 89                    | F                    | SOLDER/DESOLDER SET               | 3439-00-460-7198         | W-TOP-K           |
| 90                    | F                    | HOIST, CHAIN, HAND                | 3950-00-223-7065         | 11640383          |
| 91                    | F D                  | HOIST, CHAIN, 6000 LB.            | 3950-00-292-2881         | MILH904           |
| 92                    | O F                  | CHARGING DEVICE                   | 4933-01-046-7109         | 12252157          |
| 93                    | O                    | TOOL KIT AUTO MAINT.              | 4910-00-919-0082         | **** _**_***_**** |
| 94                    | F H                  | TELESCOPE, ELBOW                  | **** _**_***_****        | 7799773           |
| 95                    | D                    | SHOP EQUIP, INSTR.                | 4931-00-754-0740         | - - - -           |
| 96                    | O C F                | TOOL KIT INST+FC                  | 4931-00-947-8243         | - - - -           |

MAINTENANCE ALLOCATION CHART (MAC)—Continued

0396 00

| EQUIPMENT<br>REF CODE | MAINTENANCE<br>LEVEL | NOMENCLATURE          | NATIONAL<br>STOCK NUMBER | TOOL<br>NUMBER |
|-----------------------|----------------------|-----------------------|--------------------------|----------------|
| 97                    | F                    | SHOP EQPT. ELEC RPR   | 4940-00-294-9542         | ----           |
| 98                    | O                    | COMPRESSOR, RIVET     | 5120-00-357-6065         | ----           |
| 99                    | O D                  | TOOL KIT, GUIDED MSL. | 5180-00-179-3594         | ----           |
| 100                   | C O F H D            | TOOL KIT, TURR. MECH. | 5180-00-357-7727         | ----           |
| 101                   | D                    | VOLTMETER, DIGITAL    | 6625-00-022-7894         | ----           |
| 102                   | O F D                | MULTIMETER            | 6625-00-553-0142         | ----           |
| 103                   | O F                  | PWR SOURCE 24VDC      | 6625-00-823-5359         | ----           |
| 104                   | H D                  | STATIC CONT. WK STA.  | **** ** ** *             | 725344-1       |

REMARKS

| REMARKS<br>CODE | REMARKS   |
|-----------------|---|
| A               | THE POWER PLANT IS REMOVED AND INSTALLED FOR AUTHORIZED MAINTENANCE THAT CANNOT BE DONE ON ITEMS IN THE POWER PLANT COMPARTMENT WITH THE POWER PLANT IN PLACE. THE POWER PLANT IS NOT AN AUTHORIZED REPLACEMENT PART. |
| B               | COMPLETE REPAIR IS AUTHORIZED AT GENERAL SUPPORT MAINTENANCE. SEE TM 9-2350-366-24P FOR PARTS REPLACED AT UNIT MAINTENANCE. SEE TM 9-2350-366-34P FOR PARTS REPLACED AT DIRECT SUPPORT MAINTENANCE.                   |
| C               | COMPLETE REPAIR IS AUTHORIZED AT GENERAL SUPPORT MAINTENANCE. SEE TM 9-2350-366-24P FOR PARTS REPLACED AT UNIT MAINTENANCE. SEE TM 9-2350-366-34P FOR PARTS REPLACED AT DIRECT SUPPORT MAINTENANCE.                   |
| D               | COMPLETE REPAIR IS AUTHORIZED AT GENERAL SUPPORT MAINTENANCE. SEE TM 9-2350-366-24P FOR PARTS REPLACED AT UNIT MAINTENANCE. SEE TM 9-2350-366-34P FOR PARTS REPLACED AT DIRECT SUPPORT MAINTENANCE.                   |
| E               | 1. TRACK SHOE REMOVAL MAY BE REQUIRED TO ADJUST THE TRACK PROPERLY.<br><br>2. THE TRACK ASSEMBLY IS NOT AN AUTHORIZED REPAIR PART.  |
| F               | SEE TM 9-6140-200-14 FOR CREW AND UNIT SERVICES.  |





**TOOL IDENTIFICATION LIST**

**0397 00**

**INTRODUCTION**

**Scope**

This work package lists all common tools and supplements and special tools/fixtures needed to maintain the OSV.

**Explanation Of Columns In Tool Identification List**

*Column (1) — Item Number.* This number is assigned to the entry in the list and is referenced in the Initial Setup section of the WP to identify the item (e.g., “Torque wrench, 1/2 inch drive, 0-175 ft-lb (WP 0397 00, Item 83)”).

*Column (2) — Item Name.* This column lists the item by noun nomenclature and other descriptive features (e.g., “Wrench, box, open end, 1 3/8 inch”).

*Column (3) — National Stock Number.* This is the National Stock Number (NSN) assigned to the item. Use it to order 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 RPSTL for items listed in this work package.

**Table 1. Tool Identification List**

| (1)<br>ITEM<br>NO. | (2)<br>ITEM NAME                                  | (3)<br>NATIONAL<br>STOCK NUMBER | (4)<br>PART<br>NUMBER | (5)<br>REFERENCE    |
|--------------------|---|---------------------------------|-----------------------|---------------------|
| 1                  | ADAPTER, SOCKET 1/2 TO 3/4 INCH DRIVE             | 5120-00-227-8088                | A-A-2172              | SC4910-95-CL-A72    |
| 2                  | ADAPTER, SOCKET 1/2 TO 3/8 INCH DRIVE             | 5120-00-240-8703                | A-A-2172              | TM 9-2350-366-24P-1 |
| 3                  | ADAPTER, TORQUE WRENCH                            | 5120-00-213-6976                | 11663358-1            | TM 9-2350-366-24P-1 |
| 4                  | ADAPTER, TORQUE WRENCH                            | 5120-00-215-8200                | 11663358-2            | TM 9-2350-366-24P-1 |
| 5                  | ADAPTER, TORQUE WRENCH, 1/2 INCH DRIVE, 9/16 INCH | 5120-00-977-7421                | 10917666              | TM 9-2350-366-24P-1 |
| 6                  | ADAPTER, TORSION BAR                              | 5120-01-017-5328                | 12251805              | TM 9-2350-366-24P-1 |
| 7                  | ADJUSTING SLEEVE, TIE ROD STEERING                | 2530-01-249-6439                | J35223                | TM 9-2350-366-24P-1 |
| 8                  | BAR, LIFTING, FINAL DRIVE                         | 5120-00-918-0586                | 11589384              | TM 9-2350-366-24P-1 |
| 9                  | BRACKET, ANGLE, LIFTING                           | 5340-01-264-5991                | 12354718              | TM 9-2350-366-24P-1 |
| 10                 | BRUSH, WIRE, BATTERY                              | 5120-00-926-5175                | BT1                   | SC4910-95-CL-A74    |
| 11                 | BUSHING, PIPE, 1/4 EXT TO 1/8 INT                 | 4730-00-277-9386                |                       | SC4910-95-CL-A74    |
| 12                 | CAN, RADIATOR FILLING, 12 QT                      | 7240-00-499-8028                | MIL-C-43522           | TM 9-2350-366-24P-1 |
| 13                 | CLEANING TOOL RADIATOR                            | 4910-00-611-6559                | 11678393              | TM 9-2350-366-24P-1 |

## TOOL IDENTIFICATION LIST—Continued

0397 00

| (1)<br>ITEM<br>NO. | (2)<br>ITEM NAME                       | (3)<br>NATIONAL<br>STOCK NUMBER | (4)<br>PART<br>NUMBER | (5)<br>REFERENCE    |
|--------------------|--|---------------------------------|-----------------------|---------------------|
| 14                 | CROWFOOT ATTACHMENT, SOCKET            | 5120-00-181-6747                | AN8506-32A            | TM 9-2350-366-24P-1 |
| 15                 | CROWFOOT ATTACHMENT, SOCKET            | 5120-00-184-8397                | FC18                  | TM 9-2350-366-24P-1 |
| 16                 | DISPENSER, SEALANT (CAULKING GUN)      | 5120-00-679-5655                | 101                   | TM 9-2350-366-24P-1 |
| 17                 | DRILL SET                              | 5133-00-293-0983                | DB129B                | SC4910-95-CL-A74    |
| 18                 | DRILL, PORTABLE, ELECTRIC, 1/4 INCH    | 5130-00-889-8994                |                       | SC4910-95-CL-A72    |
| 19                 | DRILL, PORTABLE, ELECTRIC, 1/2 INCH    | 5130-00-293-1849                |                       | SC4910-95-CL-A74    |
| 20                 | ETCHER, ELECTRIC                       | 5130-00-596-8404                | MIL-E-3118            | SC4910-95-CL-A72    |
| 21                 | FITTING, KIT, TUBE-PIPE                | 4730-00-470-6625                | 51025                 | SC4910-95-CL-A74    |
| 22                 | FIXTURE, TRACK CONNECTING              | 5120-01-041-4624                | 12253183              | TM 9-2350-366-24P-1 |
| 23                 | FRAME, HACKSAW                         | 5110-00-289-9657                | 163-20                | SC4910-95-CL-A74    |
| 24                 | GAUGE, TRACK AND SPROCKET              | 5120-01-041-9920                | 12253280              | TM 9-2350-366-24P-1 |
| 25                 | HEATER, GUN TYPE, ELECTRIC             | 4940-00-561-1002                | 500A                  | SC4910-95-CL-A72    |
| 26                 | HOSE ASSEMBLY                          | 4720-00-454-8608                | 11633323              | TM 9-2350-366-24P-1 |
| 27                 | JACK, HYDRAULIC, HAND, 12-TON CAPACITY | 5120-00-224-7330                |                       | SC4910-95-CL-A74    |
| 28                 | LIFTER, ROADWHEEL                      | 5120-01-062-5607                | 12268612              | TM 9-2350-366-24P-1 |
| 29                 | LUBRICATING GUN, HAND                  | 4930-00-253-2478                | 1142                  | SC4910-95-CL-A74    |
| 30                 | MULTIMETER, DIGITAL AN/PSM-45          | 6625-01-139-2512                | T00377                | SC4910-95-CL-A74    |
| 31                 | PLIERS, ELECTRICAL CONNECTOR           | 5120-00-624-8065                | AT508K                | TM 9-2350-366-24P-1 |
| 32                 | PLIERS SET, RETAINING RING             | 5120-00-789-0492                | 4440R                 | SC4910-95-CL-A74    |
| 33                 | PLUG, PIPE, 1/8 INCH                   | 4730-00-011-3175                |                       | SC4910-95-CL-A74    |
| 34                 | PRESS, LEAD SEAL, HAND                 | 5120-00-224-7592                | GGG-S-735             | SC4910-95-CL-A31    |
| 35                 | PRESSURE GAUGE KIT                     | 6695-01-242-6795                | 11650182              | TM 9-2350-366-24P-1 |
| 36                 | PROTRACTOR, MECHANIC'S, BEVEL          | 6675-00-777-4529                | TB107A                | TM 9-2350-366-24P-1 |
| 37                 | PULLER, BATTERY TERMINAL               | 5120-00-944-4268                | 21                    | SC4910-95-CL-A74    |
| 38                 | PULLER, MECHANICAL                     | 5120-00-595-9305                | GGGP781               | SC4910-95-CL-A74    |
| 39                 | PULLER, SLIDE                          | 5120-00-557-3615                | 5573615               | TM 9-2350-366-24P-1 |
| 40                 | PUNCH, DRIVE PIN                       | 5120-01-006-8847                | 11678718              | TM 9-2350-366-24P-1 |
| 41                 | REMOVER AND REPLACER                   | 4910-01-128-0092                | 12269522              | TM 9-2350-366-24P-1 |
| 42                 | REPLACER, GREASE CAP                   | 5120-00-678-2796                | 10863002              | TM 9-2350-366-24P-1 |

## TOOL IDENTIFICATION LIST—Continued

0397 00

| (1)<br>ITEM<br>NO. | (2)<br>ITEM NAME  | (3)<br>NATIONAL<br>STOCK NUMBER | (4)<br>PART<br>NUMBER | (5)<br>REFERENCE    |
|--------------------|---|---------------------------------|-----------------------|---------------------|
| 43                 | REPLACER, IDLER BEARING                                     | 5120-01-102-4267                | 12269371              | TM 9-2350-366-24P-1 |
| 44                 | RIVETER, BLIND HAND   | 5120-00-017-2849                | 250K                  | SC4910-95-CL-A74    |
| 45                 | SCREW, CAP, SOCKET HEAD                                     | 5305-00-983-7456                | MS16998-97            | TM 9-2350-366-24P-1 |
| 46                 | SCREWDRIVER SET, CROSS-TIP                                  | 5130-01-115-6873                | SDDZ50                | SC4910-95-CL-A74    |
| 47                 | SLING, ENDLESS  | 3940-00-675-5003                | PD101-96              | TM 9-2350-366-24P-1 |
| 48                 | SLING, POWER PLANT  | 1450-01-240-2206                | 12350306              | TM 9-2350-366-24P-1 |
| 49                 | SOCKET, 1/2 INCH DRIVE, 1-1/2 SPLINE                        | 5120-01-906-1051                | 8355955               | TM 9-2350-366-24P-1 |
| 50                 | SOCKET, 3/4 INCH DRIVE, 15/16 INCH                          | 5120-01-181-6813                | 1230                  | SC4910-95-CL-A74    |
| 51                 | SOCKET, UNIVERSAL, 3/8 INCH<br>DRIVE, 9/16 INCH, 12-PT      | 5120-00-237-0978                |                       | SC4910-95-CL-A74    |
| 52                 | SOCKET WRENCH ATTACHMENT, 3/8<br>INCH DRIVE, 5/16 INCH HEX  | 5120-00-243-1674                |                       | TM 9-2350-366-24P-1 |
| 53                 | SOCKET WRENCH ATTACHMENT, 3/4<br>INCH DRIVE, 1-3/8 INCH HEX | 5120-01-053-3625                | 10932504              | TM 9-2350-366-24P-1 |
| 54                 | SOLDERING GUN   | 3439-00-618-6623                | D550-3                | SC4910-95-CL-A72    |
| 55                 | SOLDERING TORCH KIT   | 3439-00-542-0531                | JT25                  | SC4910-95-CL-A74    |
| 56                 | SPACER, RING  | 5356-00-004-0763                | 10863001              | TM 9-2350-366-24P-1 |
| 57                 | TAPE, MEASURING, 50 FT                                      | 5120-00-554-7085                |                       | TM 9-2350-366-24P-1 |
| 58                 | TENSIOMETER, V-BELT   | 6635-00-921-6255                | 12298F                | TM 9-2350-366-24P-1 |
| 59                 | TEST KIT, RADIATOR  | 4910-00-728-8227                | ST255A                | TM 9-2350-366-24P-1 |
| 60                 | TEST SET, STE/ICE-R   | 4910-01-222-6589                | 12259266              | TM 9-4910-571-12&P  |
| 61                 | TESTER, AIRFLOW, GAS-PARTICULATE<br>FILTER UNIT             | 6650-00-436-4212                | E5-77-2120            | TM 3-6680-316-10    |
| 62                 | TOOL KIT, BODY AND FENDER REPAIR                            | 5180-00-754-0643                |                       | SC5180-90-CL-N34    |
| 63                 | TOOL KIT, ELECTRICAL  | 5180-00-876-9336                | 7550526               | SC4910-95-CL-A74    |
| 64                 | TOOL KIT, GENERAL MECHANIC'S                                | 5180-00-177-7033                |                       | SC5180-90-CL-N26    |
| 65                 | TOOL KIT, RADIO EQUIPMENT                                   | 5180-00-064-5178                | TK-101/G              | SC5180-91-CL-R13    |
| 66                 | TOOL, SHOCK ABSORBER  | 5120-01-102-4628                | 12269380              | TM 9-2350-366-24P-1 |
| 67                 | WISE, MACHINIST'S   | 5120-00-293-1439                | 504M2                 | SC4910-95-CL-A74    |
| 68                 | WELDING SHOP, TRAILER MOUNTED                               | 3431-01-090-1231                | 11022000              | SC3431-95-CL-A04    |
| 69                 | WRENCH SET, SOCKET, 1/4 INCH<br>DRIVE                       | 5120-00-081-2305                |                       | SC4910-95-CL-A74    |
| 70                 | WRENCH SET, SOCKET, 3/8 INCH<br>DRIVE                       | 5120-00-322-6231                |                       | SC4910-95-CL-A74    |

## TOOL IDENTIFICATION LIST—Continued

0397 00

| (1)<br>ITEM<br>NO. | (2)<br>ITEM NAME                            | (3)<br>NATIONAL<br>STOCK NUMBER | (4)<br>PART<br>NUMBER | (5)<br>REFERENCE    |
|--------------------|---|---------------------------------|-----------------------|---------------------|
| 71                 | WRENCH SET, SOCKET, 3/4 INCH DRIVE          | 5120-00-204-1999                |                       | SC4910-95-CL-A72    |
| 72                 | WRENCH, ADJUSTABLE, 1-5/16 INCH             | 5120-00-264-3796                | MPA339                | SC4910-95-CL-A74    |
| 73                 | WRENCH, ADJUSTABLE, 15 INCH                 | 5120-00-264-3793                | WA615                 | SC4910-95-CL-A72    |
| 74                 | WRENCH, OIL FILTER                          | 5120-01-197-6720                | YA342A                | TM 9-2350-366-24P-1 |
| 75                 | WRENCH, PIPE, 2 INCH                        | 5120-00-277-1461                | MPA345                | SC4910-95-CL-A72    |
| 76                 | WRENCH, TORQUE, 1/4 INCH DRIVE, 0-75 IN-LB  | 5120-01-112-9532                | TQSC6A                | SC4910-95-CL-A74    |
| 77                 | WRENCH, TORQUE, 3/8 INCH DRIVE, 0-150 IN-LB | 5120-00-230-6380                | TE-12A                | TM 9-2350-366-24P-1 |
| 78                 | WRENCH, TORQUE, 3/8 INCH DRIVE, 0-200 IN-LB | 5120-00-853-4538                | F200-1                | SC4910-95-CL-A72    |
| 79                 | WRENCH, TORQUE, 3/8 INCH DRIVE, 0-600 IN-LB | 5120-00-542-5681                | B58                   | TM 9-2350-366-24P-1 |
| 80                 | WRENCH, TORQUE, 3/8 INCH DRIVE, 15-75 FT-LB | 5120-00-554-7292                | GG-W-00686            | SC4910-95-CL-A74    |
| 81                 | WRENCH, TORQUE, 1/2 INCH DRIVE, 0-300 IN-LB | 5120-00-247-2536                | F3001                 | TM 9-2350-366-24P-1 |
| 82                 | WRENCH, TORQUE, 1/2 INCH DRIVE, 0-150 FT-LB | 5120-00-247-2540                | F150                  | TM 9-2350-366-24P-1 |
| 83                 | WRENCH, TORQUE, 1/2 INCH DRIVE, 0-175 FT-LB | 5120-00-640-6364                | 1753LDF               | SC4910-95-CL-A72    |
| 84                 | WRENCH, TORQUE, 3/4 INCH DRIVE, 0-600 FT-LB | 5120-00-221-7983                | TE602A                | SC4910-95-CL-A72    |
| 85                 | YARDSTICK (ALUMINUM)                        | 5210-00-985-6610                | GGG-Y-0035<br>TY2     | TM 9-2350-366-24P-1 |
| 86                 | YARDSTICK (WOOD)                            | 5210-00-243-3349                | GGG-Y-0035<br>TY1     | TM 9-2350-366-24P-1 |

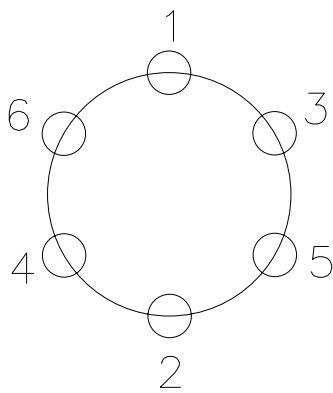
**INTRODUCTION**

This work package includes general information on torquing sequences and the use of torque adapters. Specific torque values are given in the maintenance WPs.

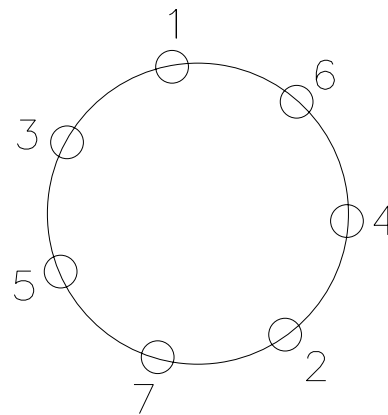
**TORQUE INFORMATION**

**Torque Sequences**

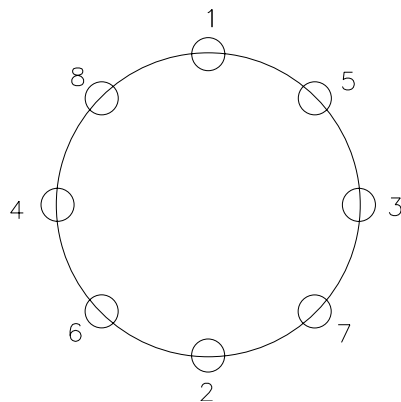
1. When torquing multiple fasteners on covers, plates, housings, etc., use one of the star pattern sequences below unless otherwise stated in the maintenance WP.



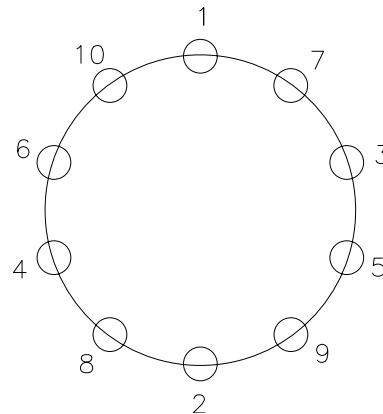
**6-HOLE PATTERN**



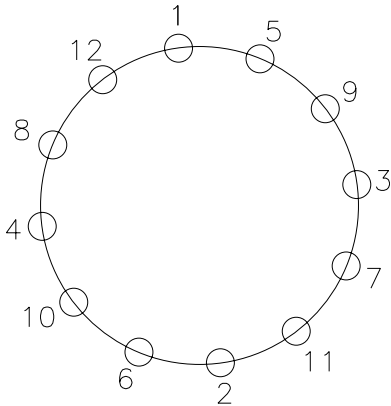
**7-HOLE PATTERN**



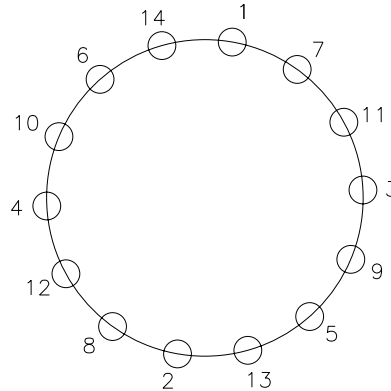
**8-HOLE PATTERN**



**10-HOLE PATTERN**



12-HOLE PATTERN



14-HOLE PATTERN

**Use Of Torque Wrench Adapters And The Conversion Formula.**

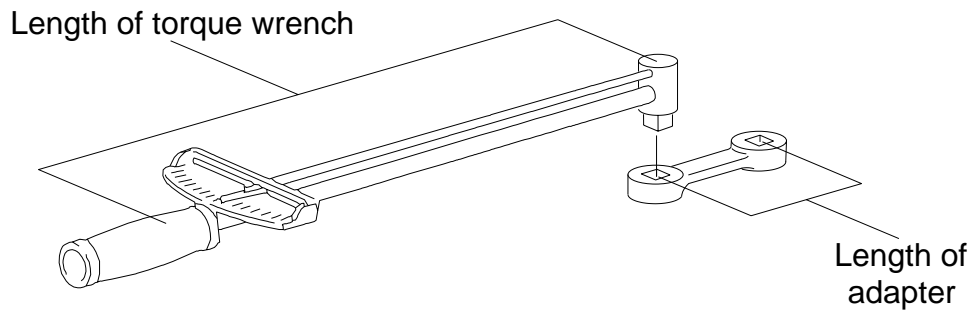
The torque values given in the maintenance WPs of this manual are the actual values that must be applied to the nut or screw for proper maintenance. However, some tasks require the use of a torque wrench adapter when the nut or screw cannot be reached with a regular socket on the end of the torque wrench. These adapters add to the overall length of the torque wrench and make the dial or scale reading less than the actual torque applied to the nut or screw. To prevent overtorquing and damage to equipment, you must calculate a corrected dial or scale reading. In these cases, use the following procedure to determine the corrected scale or dial reading:

**NOTE**

**The length of the torque wrench is measured from the center of the handle to the center of the drive. The length of the adapter is measured from the center of the drive to the center of the wrench.**

1. Determine the required torque value, the length of the torque wrench, and the length of the adapter.
2. Use the following formula to calculate the corrected scale or dial reading.

$$\text{Corrected reading} = \text{Required torque value} \div \frac{\text{Length of torque wrench} + \text{length of adapter}}{\text{Length of torque wrench}}$$



For example, if the required torque is 19–21 lb-ft (3 mkg) and if the torque wrench measures 22 inches and the adapter measures 3 inches, the corrected reading for 19 lb-ft would be calculated as shown below.

|                   |   |                       |   |   |
|-------------------|---|-----------------------|---|---|
| Corrected reading | = | Required torque value | ÷ | $\frac{\text{Length of torque wrench + length of adapter}}{\text{Length of torque wrench}}$ |
| Corrected reading | = | 19 ft-lb              | ÷ | $\frac{22 \text{ inches} + 3 \text{ inches}}{22 \text{ inches}}$                            |
| Corrected reading | = | 19 ft-lb              | ÷ | $\frac{25 \text{ inches}}{22 \text{ inches}}$   |
| Corrected reading | = | 19 ft-lb              | ÷ | 1.14  |
| Corrected reading | = | 17 ft-lb              |   |   |

The above steps must be repeated for the 21 lb-ft value.





**EXPENDABLE AND DURABLE ITEMS LIST****0399 00****INTRODUCTION****Scope**

This work package lists expendable and durable items that you will need to operate and maintain the OSV. This listing is for information only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, *Expendable/Durable Items (Except Medical, Class V, Repair Parts, and Heraldic Items)*, or CTA 8-100, *Army Medical Department Expendable/Durable Items*.

**Explanation of Columns in the Expendable/Durable Items List**

*Column (1) — Item Number.* This number is assigned to the entry in the list, and is referenced in the narrative instructions to identify the item (e.g. “Use automotive grease (WP 0399 00, Item 11)”).

*Column (2) — Level.* This column identifies the lowest level of maintenance that requires the listed item.

C — Operator/Crew

O — Unit Maintenance

*Column (3) — National Stock Number (NSN).* This is the NSN assigned to the item which you can use to requisition it.

*Column (4) — Item Name, Description, Commercial and Government Entity Code (CAGEC), and Part Number.* This column provides the other information you need to identify the item.

*Column (5) — Unit of Measure (U/M).* This code shows the physical measurement or count of an item, such as gallon (GL), pound (LB), dozen (DZ), etc.

**EXPENDABLE AND DURABLE ITEMS LIST****Table 1. Expendable and Durable Items List**

| (1)<br>ITEM<br>NUMBER | (2)<br>LEVEL | (3)<br>NATIONAL<br>STOCK<br>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            | 5350-01-127-6855                   | ABRASIVE PAPER (GARNET)<br>(80244) P-P-121 CL7    | SH         |
| 3                     | O            | 8040-00-262-9026                   | ADHESIVE<br>(80244) MMM-A-1617 TYII               | PT         |
| 4                     | O            | 8040-00-664-4318                   | ADHESIVE<br>(18876) 9995460                       | PT         |
| 5                     | O            | 8040-00-833-9563                   | ADHESIVE (RTV)<br>(81349) MIL-A-46106 GP1 TY1     | KT         |
| 6                     | O            | 8040-01-068-2423                   | ADHESIVE<br>(94960) 2141PT                        | PT         |
| 7                     | O            | 8040-01-102-2098                   | ADHESIVE<br>(80244) MMM-A-132 TYI CL3             | KT         |

## EXPENDABLE AND DURABLE ITEMS LIST—Continued

0399 00

| (1)<br>ITEM<br>NUMBER | (2)<br>LEVEL | (3)<br>NATIONAL<br>STOCK<br>NUMBER | (4)<br>ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER      | (5)<br>U/M |
|-----------------------|--------------|------------------------------------|--|------------|
| 8                     | O            | 9150-00-985-7244                   | AIRCRAFT GREASE (GIA)<br>(81349) MIL-G-23827           | OZ         |
| 9                     | O            | 6850-00-181-7940                   | ANTIFREEZE<br>(81349) MIL-A-46153                      | GL         |
| 10                    | O            | 8030-00-251-3980                   | ANTISEIZE COMPOUND<br>(81349) MIL-A-907                | LB         |
| 11                    | O            | 9150-01-197-7690                   | AUTOMOTIVE GREASE (GAA)<br>(81349) MIL-G-10924F        | LB         |
| 12                    | O            | 8030-00-290-5141                   | BITUMINOUS COATING CMPD<br>(81349) MIL-C-450           | GL         |
| 13                    | O            | 8030-00-577-4740                   | CAULKING COMPOUND<br>(81348) TT-C-1796                 | GL         |
| 14                    | O            | 7920-00-044-9281                   | CLEANING CLOTH<br>(51200) MIRACLEWIPEL001              | LB         |
| 15                    | O            | 6850-00-227-1887                   | CLEANING COMPOUND<br>(81349) MIL-C-43454               | QT         |
| 16                    | O            | 6850-01-224-0098                   | CLEANING COMPOUND<br>(81349) MIL-C-43616               | GL         |
| 17                    | O            | 6850-01-378-0679                   | CLEANING COMPOUND, SOLVENT<br>(OK209) BREAKTHROUGH     | GL         |
| 18                    | O            | 8305-00-267-3015                   | CLOTH (CHEESE CLOTH)<br>(81348) CC-C-440               | YD         |
| 19                    | O            | 8030-00-082-2425                   | COATING COMPOUND<br>(81349) MIL-C-8514                 | KT         |
| 20                    | O            |                                    | CORROSION INHIBITING CMPD<br>(20418) BOESHIELD T-9     | OZ         |
| 21                    | O            | 4940-00-106-4770                   | CORROSION KIT<br>(81349) MIL-K-81576                   | EA         |
| 22                    | O            | 8030-00-244-1299                   | CORROSION PREVENTIVE CMPD<br>(81349) MIL-C-16173       | GL         |
| 23                    | O            | 8030-00-823-8039                   | CORROSION RESISTANT COATING<br>(99442) IRIDITE14ALCOAT | GL         |
| 24                    | O            | 8030-01-330-2504                   | CORROSION RESISTANT COATING<br>(80244) MIL-C-81706 CL3 | PT         |
| 25                    | O            | 9150-00-189-6727                   | ENGINE LUB OIL (OE/HDO-10)<br>(81349) MIL-L-2104       | QT         |
| 26                    | O            | 9150-01-152-4119                   | ENGINE LUB OIL (OE/HDO-15/40)<br>(81349) MIL-L-2104    | DR         |

## EXPENDABLE AND DURABLE ITEMS LIST—Continued

0399 00

| (1)<br>ITEM<br>NUMBER | (2)<br>LEVEL | (3)<br>NATIONAL<br>STOCK<br>NUMBER | (4)<br>ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER | (5)<br>U/M |
|-----------------------|--------------|------------------------------------|---|------------|
| 27                    | O            | 9150-00-402-4478                   | ENGINE LUB OIL (OEA)<br>(81349) MIL-L-46167       | QT         |
| 28                    | O            | 8010-01-313-8702                   | EPOXY COATING KIT<br>(81349) MIL-C-22750          | EA         |
| 29                    | O            | 4020-00-062-4528                   | FIBROUS TWINE<br>(75678) 22340-9                  | SP         |
| 30                    | O            | 9150-01-035-5390                   | GEAR LUB OIL (GO-75)<br>(81349) MIL-L-2105        | QT         |
| 31                    | O            | 9150-00-231-2361                   | GENERAL LUB OIL (PL-M)<br>(81349) MIL-L-3150      | QT         |
| 32                    | O            | 9150-00-231-9062                   | GENERAL LUB OIL (PL-S)<br>(81349) VVL800          | GL         |
| 33                    | O            | 7930-00-531-9715                   | GENERAL PURPOSE DETERGENT<br>(81349) MIL-D-16791  | GL         |
| 34                    | O            | 5110-00-277-4588                   | HACKSAW BLADE<br>(54940) 31-51024                 | EA         |
| 35                    | O            | 9150-00-111-6256                   | HYDRAULIC FLUID (FRH)<br>(81349) MIL-H-46170 TYI  | QT         |
| 36                    | O            | 5970-00-935-4941                   | INSULATING COMPOUND<br>(81349) MIL-I-46058        | GL         |
| 37                    | O            | 5970-00-816-6056                   | INSULATING TAPE<br>(81348) HH-I-595-B-108-0       | FT         |
| 38                    | O            | 8010-01-165-6760                   | LACQUER THINNER<br>(81349) MIL-T-81772            | GL         |
| 39                    | O            | 9150-00-754-2595                   | MOLYBDENUM D GREASE (GMD)<br>(81349) MIL-G-21164  | LB         |
| 40                    | O            | 9505-00-293-4208                   | NONELECTRICAL WIRE<br>(96906) MS20995C32          | LB         |
| 41                    | O            | 4720-00-177-0672                   | NONMETALLIC HOSE<br>(19207) 11662996              | FT         |
| 42                    | O            | 8020-00-297-6657                   | PAINT BRUSH<br>(81348) H-B-491                    | EA         |
| 43                    | O            | 8010-00-515-2208                   | PRIMER COATING<br>(80244) TT-P-1757-TYI           | GL         |
| 44                    | O            | 9320-00-272-2990                   | RUBBER ADHESIVE TAPE<br>(81349) MIL-T-6841        | FT         |
| 45                    | O            | 8030-00-080-2171                   | SEALING COMPOUND<br>(52152) EC800                 | QT         |

## EXPENDABLE AND DURABLE ITEMS LIST—Continued

0399 00

| (1)<br>ITEM<br>NUMBER | (2)<br>LEVEL | (3)<br>NATIONAL<br>STOCK<br>NUMBER | (4)<br>ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER       | (5)<br>U/M |
|-----------------------|--------------|------------------------------------|---|------------|
| 46                    | O            | 8030-00-081-2326                   | SEALING COMPOUND<br>(05972) 078-21                      | CC         |
| 47                    | O            | 8030-00-081-2339                   | SEALING COMPOUND<br>(05972) 088-21 MIL-S-22473 GRA      | CC         |
| 48                    | O            | 8030-00-152-0013                   | SEALING COMPOUND (FUEL)<br>(80244) MIL-S-8802 TY2 CLB-2 | OZ         |
| 49                    | O            | 8030-00-159-8177                   | SEALING COMPOUND<br>(81349) MIL-S-12158                 | OZ         |
| 50                    | O            | 8030-00-174-2598                   | SEALING COMPOUND<br>(03956) P1896694-3                  | KT         |
| 51                    | O            | 8030-00-252-3391                   | SEALING COMPOUND<br>(81349) MIL-S-45180, TY 2           | OZ         |
| 52                    | O            | 8030-00-275-8110                   | SEALING COMPOUND<br>(81349) MIL-S-11031                 | KT         |
| 53                    | O            | 8030-00-656-1426                   | SEALING COMPOUND<br>(62377) MIL-S-45180 TY3             | PT         |
| 54                    | O            | 8030-00-753-5004                   | SEALING COMPOUND<br>(83574) PR-1440 B-1/2               | OZ         |
| 55                    | O            | 8030-01-166-0675                   | SEALING COMPOUND<br>(05972) 567-47                      | EA         |
| 56                    | O            | 8030-00-900-2373                   | SEALING COMPOUND PRIMER<br>(05972) 764-55               | OZ         |
| 57                    | O            | 6850-00-880-7616                   | SILICONE COMPOUND<br>(81349) MIL-S-8660                 | OZ         |
| 58                    | O            | 6850-00-927-9461                   | SILICONE COMPOUND<br>(81349) MIL-C-47113                | OZ         |
| 59                    | O            | 6810-00-264-6618                   | SODIUM BICARBONATE<br>(81349) O-S-576                   | LB         |
| 60                    | O            | 9150-00-250-0926                   | TECHNICAL PETROLATUM<br>(81348) VV-P-236                | LB         |
| 61                    | O            | 3439-00-453-5472                   | TIN ALLOY SOLDER<br>(81348) SN60WRMAP2 0.0361LB         | LB         |
| 62                    | O            | 5610-00-267-1533                   | WALKWAY COMPOUND<br>(81349) MIL-W-5044 TYII             | GL         |
| 63                    | O            | 9150-00-292-9689                   | WEAPONS LUB OIL (LAW)<br>(81349) MIL-L-14107            | QT         |

EXPENDABLE AND DURABLE ITEMS LIST—Continued

0399 00

| (1)<br>ITEM<br>NUMBER | (2)<br>LEVEL | (3)<br>NATIONAL<br>STOCK<br>NUMBER | (4)<br>ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER | (5)<br>U/M |
|-----------------------|--------------|------------------------------------|---|------------|
| 64                    | O            | 7920-00-205-1711                   | WIPING RAG<br>(58536) A-A-2522                    | LB         |
| 65                    | O            | 9150-00-530-6814                   | WIRE ROPE GREASE<br>(81349) MIL-G-18458           | LB         |

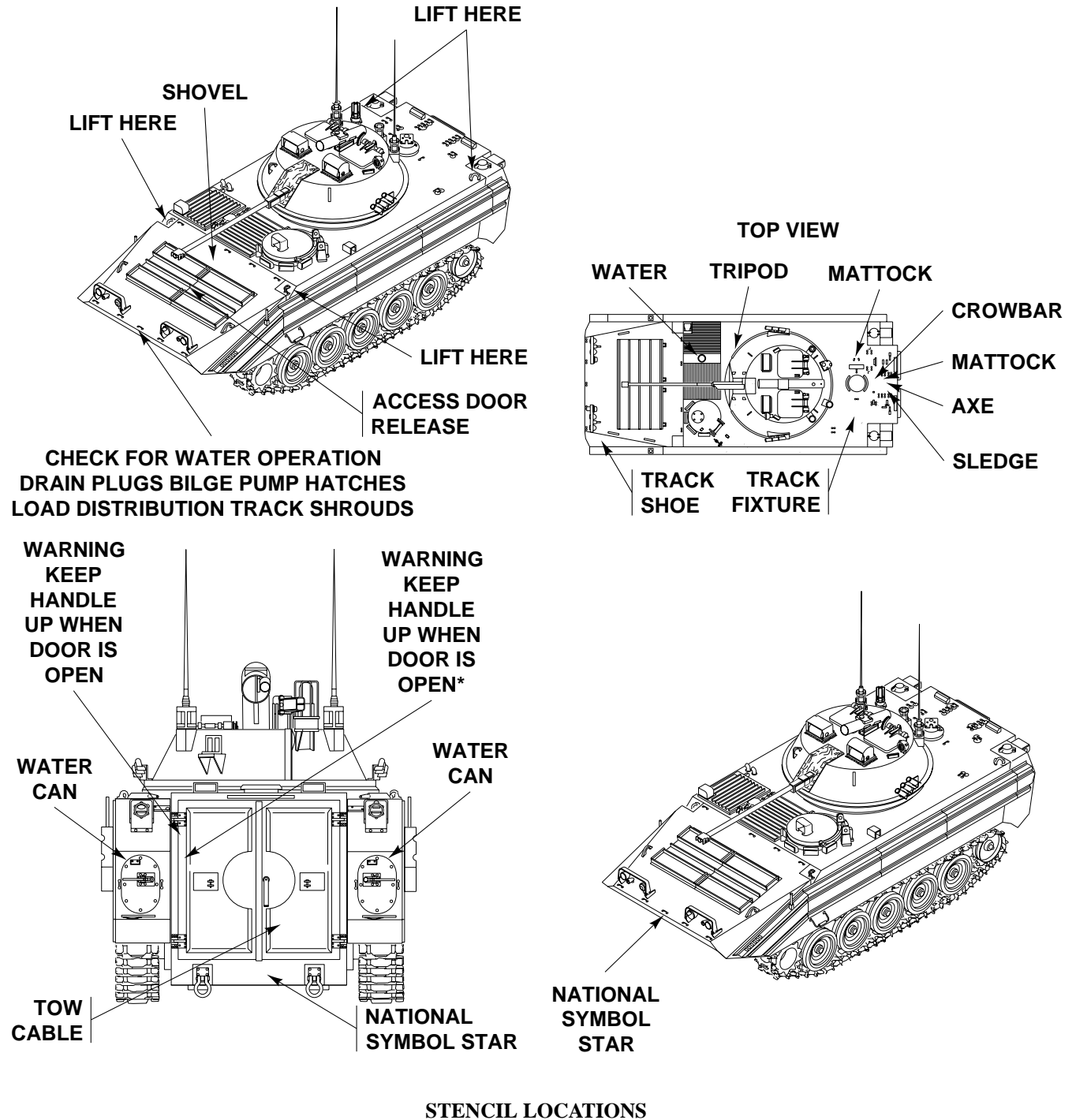


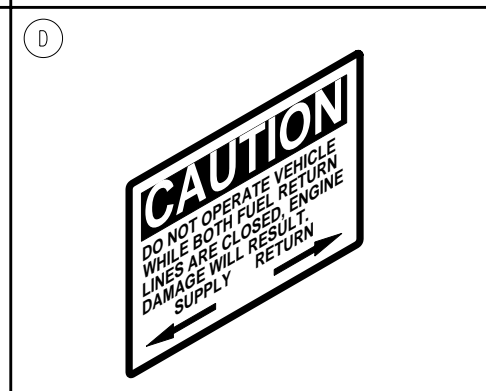
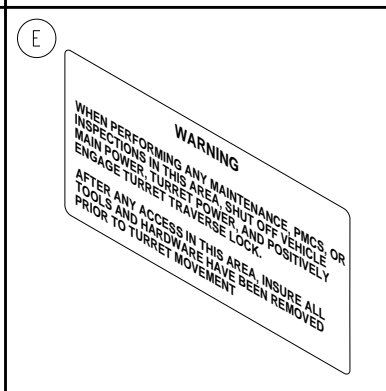
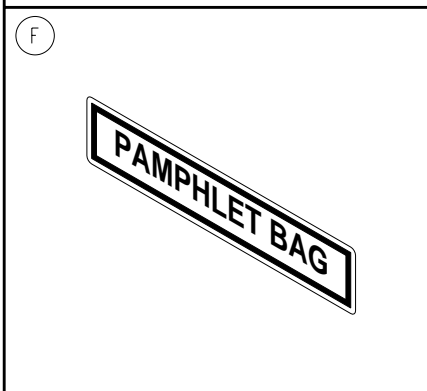
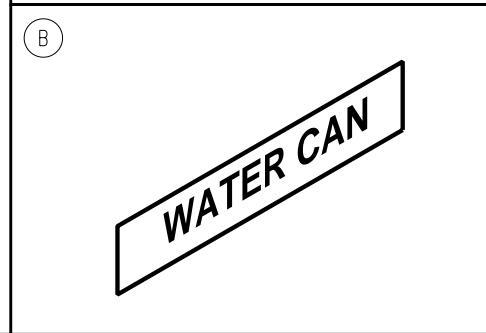
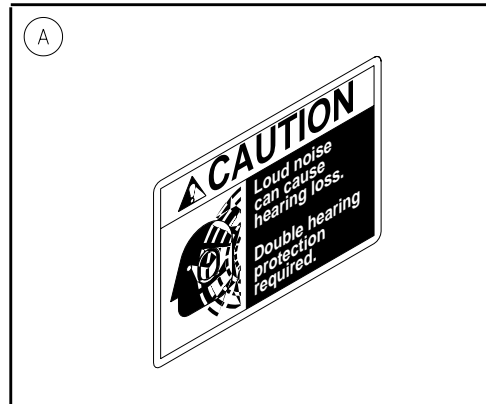
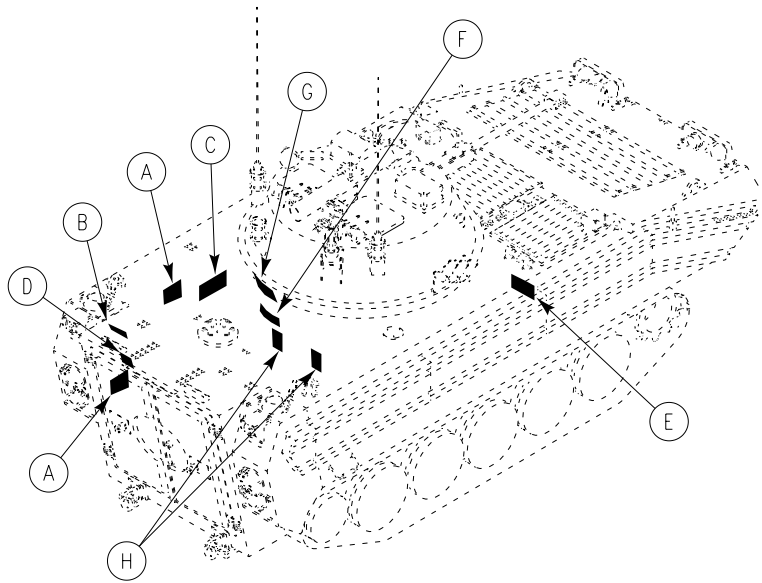
**STENCILS, DATAPLATES, DECALS, AND MARKERS**

**0400 00**

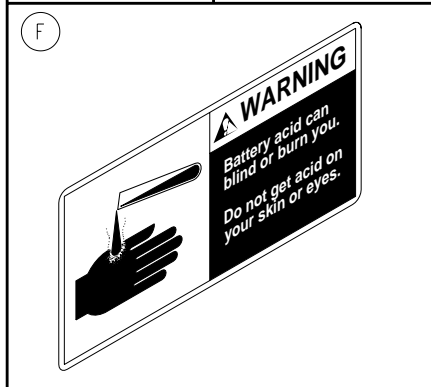
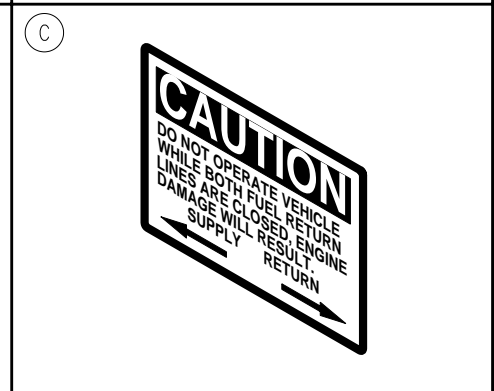
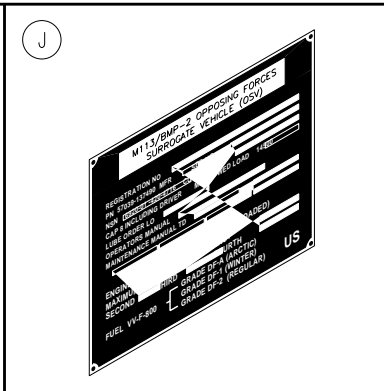
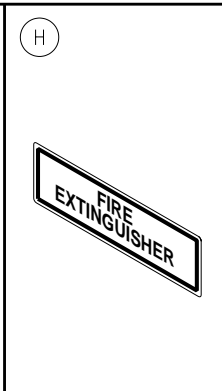
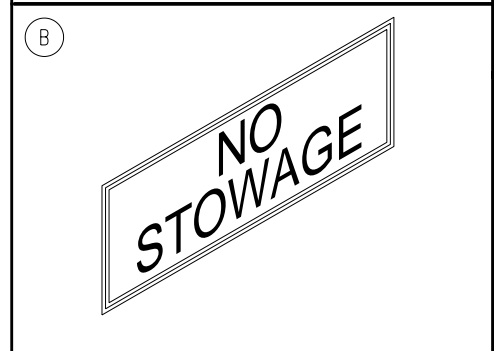
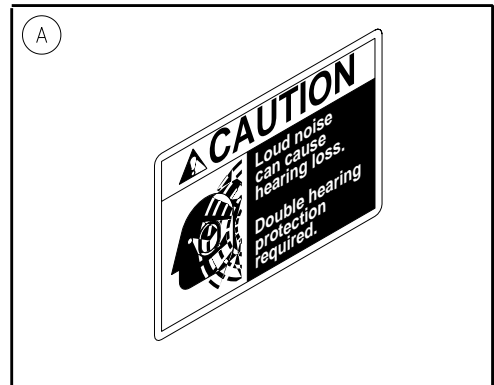
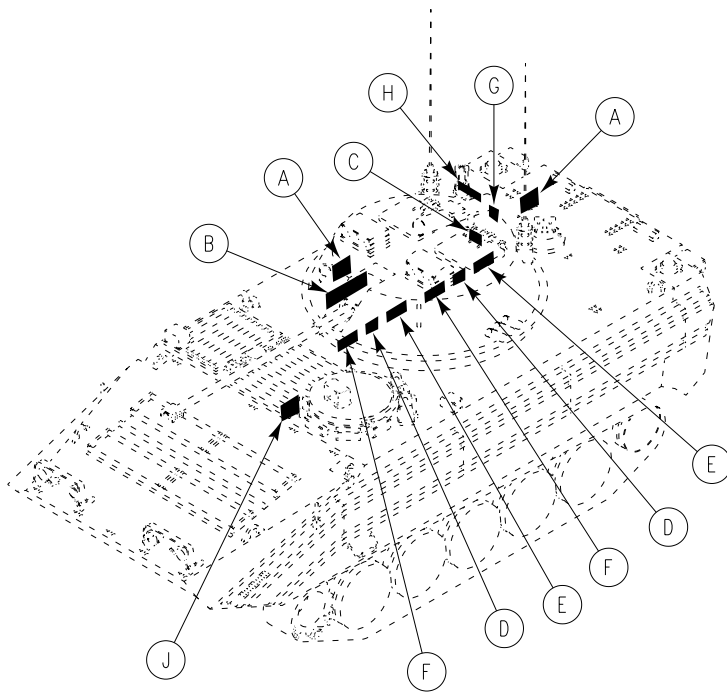
**Scope**

This work package provides illustrations showing the locations of stencils, dataplates, decals, and markers on the OSV.











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**GENERAL MAINTENANCE INSTRUCTIONS**

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**0401 00****SCOPE**

This section contains safety warnings, guidelines, and general maintenance instructions. They should be followed when doing maintenance procedures.

**PREPARATION FOR MAINTENANCE**

1. *PERSONNEL SAFETY.* Practice all shop safety procedures and read all warnings in this manual.
2. *PROPER EQUIPMENT.* Get tools and equipment before starting a maintenance task. See TM 9-2350-366-24&P-1, and the maintenance task for tools, equipment, parts, and materials.
3. *WHAT TO DISCARD.* Parts to discard, such as lock washers, locknuts, and gaskets, are listed in the maintenance tasks. If the step does not say to discard a part, the part should be saved. It may be used later or repaired.
4. *HANDLING TECHNIQUES.*
  - a. Avoid damage to parts during disassembly, cleaning, inspection, repair, and reassembly procedures. Nicks, scratches, and dents caused by careless handling could result in equipment failure.
  - b. Dirt can damage parts and cause malfunctions. Make sure all air and fluid openings, lines, and hoses are capped or plugged during maintenance procedures.
5. *IDENTIFICATION.* During disassembly, tag parts to ensure proper assembly.

**CLEANING**

1. *GENERAL.* Cleaning is very important. All parts must be cleaned well and kept clean during maintenance. Dirt or foreign matter can cause malfunctions and equipment failure. General cleaning procedures are detailed in Steps 2 - 14. Special cleaning procedures are covered in the task relating to the specific part.
2. *CLEAN EVERY PART.* Clean every part well after disassembly and before you assemble or install them. Clean parts such as housings, covers, and dipsticks before disassembly. Avoid getting dirt and foreign matter in a system. Cap all air and fluid openings, lines, and hoses.
3. *HANDLE WITH CARE.* Use care when handling parts during cleaning and maintenance. Nicks, scratches, dents, or burns can prevent proper assembly or cause malfunctions after assembly.

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**WARNING**

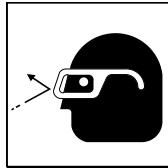
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**Solvent fumes and fluid are poisonous and can cause skin irritation.**

**Solvent may be harmful if swallowed. Avoid skin contact and breathing of fumes. Read solvent warning at the front of this manual.**

4. *AVOID ABRASIVES.* Except where called for in a task, don't use abrasives, files, wire brushes, or sharp tools. On some surfaces, finish is important to the operation of close-fitting parts.
5. *REMOVAL AGENTS.* Remove gum or old grease deposits by soaking in cleaning solvent (WP 0399 00, Item 17). Scrub with a brush. Use crocus cloth to remove minor surface defects.

**WARNING**

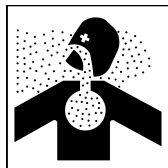
**Compressed air can injure you or others.**

**Do not aim compressed air at yourself or other personnel. Always wear goggles when working with compressed air. Do not use more pressure than 30 psi (207kPa) with air nozzles.**

**CAUTION**

**Lye or caustic mixtures will damage metal surfaces. Do not use lye or caustic mixtures to clean metal surfaces.**

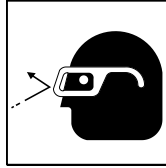
6. *STEAM CLEANING.* If steam cleaning is used, dry clean parts at once with compressed air. Apply a thin film of clean oil to surfaces that are not painted to prevent rusting. Never use lye or caustic mixtures that will corrode or etch metal surfaces.
7. *LUBRICATION OF NEW BEARINGS.* See TM 9-214 for cleaning and lubrication procedures. Bearings that have been in service should also be lubricated.
8. *CLEANING INSTRUCTIONS.* Care is needed in all cleaning procedures. Dirt can damage parts and cause malfunctions. When you perform any cleaning procedure, do the following:
  - a. Inspect and cap all air and fluid openings, lines, and hoses.

**WARNING**

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- b. Clean all parts before inspection, after repair, and before assembly. Use cleaning solvent (WP 0399 00, Item 17) or approved cleaner. Dry parts with wiping rag (WP 0399 00, Item 64).

**WARNING**

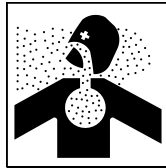
**Compressed air can injure you or others.**

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**CAUTION**

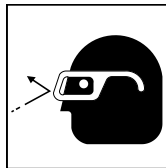
**Lye or caustic mixtures will damage metal surfaces. Do not use lye or caustic mixtures to clean metal surfaces.**

- c. Keep hands free of grease; grease collects dirt.
- d. After cleaning, cover or wrap parts to protect from dirt.

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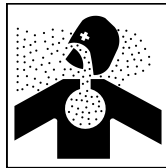
9. *CASTINGS.*

- a. Clean inner and outer surfaces of casting with cleaning solvent (WP 0399 00, Item 17). Dry casting with compressed air.
- b. Remove sludge and gun deposits with stiff brush.
- c. Blow out all tapped holes with compressed air.

10. *BALL BEARINGS.* Bearings require special cleaning techniques. See TM 9-214 for cleaning and maintenance procedures for ball bearings.

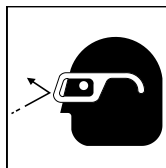
11. *OIL PASSAGES.*

- a. Make sure all oil passages are not clogged.
- b. Clean oil passages with brass wire probes to break up any sludge or gum deposits.

**WARNING**

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**WARNING**

**Compressed air can injure you or others.**

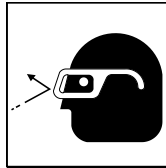
**Do not aim compressed air at yourself or other personnel. Always wear goggles when working with compressed air. Do not use more pressure than 30 psi (207kPa) with air nozzles.**

- c. Flush oil passages with cleaning solvent (WP 0399 00, Item 17). Dry parts with compressed air.

**CAUTION**

**Cleaning solvent causes leather, rubber, and synthetic materials to become brittle. Do not use cleaning solvent to clean seals, cables, and flexible hoses.**

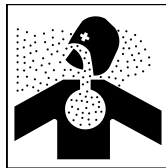
12. *OIL SEALS, ELECTRICAL CABLES, AND FLEXIBLE HOSES.* Clean seals, cables, and flexible hoses with general purpose detergent (WP 0399 00, Item 33) and water. Dry parts with wiping rag (WP 0399 00, Item 64).

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13. *INSERTS*. Blow out insert holes with compressed air.

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14. *GASKETS*. If gasket is being removed, scrape old gasket material and sealant off mating surface. Clean mating surface with cleaning solvent (WP 0399 00, Item 17). Dry with wiping rag (WP 0399 00, Item 64).

**INSPECTION**

All removed parts must be inspected with care. Replace parts if damage or wear exceeds allowable limits.

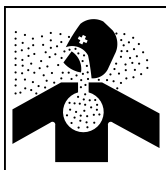
1. *GENERAL*. Procedures for inspection will be the same for most parts. General inspection procedures are given in Steps 2 - 16 below. Special inspection procedures are covered in the task as needed.
2. *CASTINGS*.
  - a. Inspect all castings and forgings for breaks, cracks, and wear or scoring that would impair function.
  - b. Inspect machined surfaces for nicks, burs, and raised metal. Mark damaged areas for repair.
  - c. Use straightedge to check all mounting flanges on housings and supports for bends. Inspect mating flanges for stains which would indicate leaks.
  - d. Inspect all threaded parts for damaged or stripped threads.
3. *NEEDLE ROLLER BEARINGS*. Inspect bearings for free and smooth rotation and broken or missing rollers. Also look for tightness of fit in bearing bores. Inspect bearing races for wear and color changes due to heat. See TM 9-214 for inspection procedures.

4. *STUDS*. Inspect all studs for stripped or damaged threads, bent or loose condition, and signs of stretching.
5. *GEARS*. Inspect gears for burs, wear, cracked or broken teeth, and pitting at tooth contact areas.
6. *BUSHINGS AND BUSHING-TYPE BEARINGS*.
  - a. Check all bushings and bushing-type bearings for secure fit in casting. Check for color changes which could mean overheating. Inspect for size, scoring, out-of-roundness, burs, sharp edges, and signs of seizing.
  - b. Check for dirt in oil holes and in bushing-type bearings. Oil holes and grooves must be clean and not damaged.
7. *OIL SEALS*.
  - a. Inspect feather edge of oil seals for tears, fraying, hardening, and cracking.
  - b. Replace metal-covered oil seals when there are signs of damage or oil leaks.
8. *CORE HOLE PLUGS*. Inspect core hole plugs for signs of leaks. Replace damaged core hole plugs.
9. *INSERTS*.
  - a. Inspect inserts for cracks and stripped or damaged threads.
  - b. Check inserts for loose fit.
10. *GREASE SEALS, PREFORMED PACKINGS, AND GASKETS*.
  - a. Inspect seals that are composition-type, rings, and preformed packings for wear, brittleness, cracks, cuts, and damage.
  - b. Inspect lip seals for cracks, wear, cuts, and brittleness. Inspect springs and seal shells for damage.
  - c. Gaskets and seals on electrical parts may be reused. Inspect gaskets and seals for wear, nicks, cuts, and torn or missing gasket material. Replace gasket if needed.
11. *SPLINED PARTS*. Inspect splined parts for burrs, wear, twisted, cracked, or broken splines.
12. *THREADED PARTS*. Inspect all threaded parts for burrs and stripped or damaged threads.
13. *RETAINING RINGS*. Inspect retaining rings for nicks, burrs, defects, loss of tension, and wear.
14. *SPRINGS*. Inspect springs for wear, defects, breaks, and loss of tension or compression. Inspect springs using a spring tester.
15. *SHAFTS AND SPINDLES*. Inspect shafts and spindles for excessive wear, binding, scores, cracks, and burrs.
16. *ELECTRICAL PARTS*.
  - a. Inspect electrical parts before you install them. Look for mildewed, corroded, or burned parts.
  - b. Inspect electrical parts for pinched or loose wires and for cracked or broken wires, circuit cards, relays, and connectors.
  - c. Inspect insulation and heat shrink tubing for cracks, tears, burns, or missing material.
  - d. Inspect for proper grounding, metal-to-metal contact, of electrical components. Remove paint, grease, or dirt from metallic surfaces to ensure metal-to-metal contact. Inspect ground straps for security of fasteners.



**REPAIR**

1. *GENERAL*. General repair procedures are given below. Special repairs are covered in the task. After repair, clean all parts well.
2. *CASTINGS*.
  - a. Replace all cracked or broken castings.
  - b. Repair minor damage to machined surfaces of castings with crocus cloth. Replace any part with defects that cannot be corrected or which will impair function.
  - c. Repair minor surface bends by working bent surface of casting across sheet of crocus cloth on surface plate. Replace bent castings which would impair assembly or function.
3. *BALL BEARINGS*. See TM 9-214 for inspection and maintenance for ball bearings.
4. *NEEDLE ROLLER BEARINGS*. See TM 9-214 for inspection and maintenance of needle roller bearings.
5. *BUSHINGS AND BUSHING-TYPE BEARINGS*. Replace bushings and bushing-type bearings if they are loose, scored, or have color change due to heat. When you replace bushings and bushing-type bearings, check nearby parts for damage or wear.
6. *OIL SEALS*. Oil seals must be replaced when thin feather edge is damaged or when seal material is brittle.
  - a. Press damaged oil seal from castings. Be careful not to damage bore.

**WARNING**

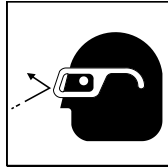
**Solvent fumes and fluid are poisonous and can cause skin irritation.**

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- b. When oil seal bore is damaged so an oil-tight seal is impossible, replace casting or adapter. Remove slight nicks, burrs, and scratches with crocus cloth dipped in cleaning solvent (WP 0399 00, Item 17).
  - c. Install new oil seal in casting bore or adapter using suitable oil seal replacement tool.
7. *GREASE SEALS, PREFORMED PACKINGS, AND GASKETS*.
  - a. Replace seals which show signs of wear, brittleness, cracks, and damage.
  - b. Replace defective lip seals, springs, and seal shells.
  - c. Preformed packings and gaskets should be replaced when removed unless otherwise stated in the maintenance task. They should not be reused.
8. *THREADED PARTS*. Replace all parts that have stripped or damaged threads. Replace parts that cannot be repaired by chasing threads with a used tap or die.
9. *RETAINING RINGS*.
  - a. Replace retaining rings that have defects.
  - b. Some retaining rings are beveled on one side. When installing this type of ring, the beveled side must face the part to be retained.

10. *SPRINGS*. Discard springs that have defects. Load and height inspection data, where needed, are given in maintenance procedures.

**WARNING**



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11. *SHAFTS AND SPINDLES*.

- a. Replace shafts and spindles that show signs of wear, binding, scores, cracks, burrs, or clogged oil passages.
- b. Remove obstructions with compressed air or by probing with soft wire.
- c. Remove burrs and minor surface defects with a crocus cloth.

12. *ELECTRICAL PARTS*.

- a. Replace corroded or burned parts and parts which show signs of mildew.
- b. Tighten loose connections.
- c. Replace cracked or broken wires, circuit cards, relays, and connectors.
- d. Replace cracked, torn, or burned insulation and heatshrink tubing.

**FLUID LEAKS AND CHECKING FOR LEAKS**

1. *GENERAL*. Fluid leaks in hoses and fluid lines affect vehicle operation. The types and classes of leaks are given below.

|                  |   |
|------------------|---|
| <b>CLASS I</b>   | Seepage of fluid is not great enough to form drops, but it is shown by wetness or color changes.            |
| <b>CLASS II</b>  | Leakage of fluid is great enough to form drops, but drops do not drip from item being checked or inspected. |
| <b>CLASS III</b> | Leakage of fluid is great enough to form drops that fall from the item being checked or inspected.          |

**NOTE**

**You are allowed to operate equipment with minor water or oil leaks (Class I or II). You must consider how much fluid the item or system being checked or inspected can hold. When in doubt, notify your supervisor. Any fuel or Class III leaks will make the vehicle NOT READY/AVAILABLE.**

2. *CHECKING FOR LEAKS AFTER A MAINTENANCE TASK*. After doing maintenance on a part which involves hoses or fluid lines, check for leaks. If leaks occur after you have done a replace or repair task, find the source of the leak and correct the problem. Follow these procedures.

- a. Do visual inspections to find the source of the leak.
    - 1) Check for cracks on housing or cover.
    - 2) Check that screws and any connections are not loose or overtight.
  - b. If you cannot see the source of the leak, repeat the maintenance task. Check the items listed below as you repeat the task.
    - 1) Check that preformed packings or gaskets are not bent, broken, or pinched.
    - 2) Check machined surfaces for fit and cleanliness.
    - 3) Install new replacement parts.
  - c. After you repeat the task and install a new part, the leak could persist. If so, report the problem to your supervisor.
3. *CHECKING FOR LEAKS USING CHALK TEST.* Following replacement, repair, or adjustment of a door, hatch cover, access panel, or rubber seal, check for leaks by performing a chalk test. Use the following procedures.
- a. Use chalk or chalk powder to coat area around seal.
  - b. Close door, hatch cover, or panel.
  - c. Open door, hatch cover, or panel.
  - d. Check for unbroken chalk line on mating surface. Where chalk does not stick to mating surface, there is a leak in the seal surface.
  - e. If leak is found, perform adjustment to correct problem.

**WARM-UP ENGINE**

To warm-up the engine for a maintenance or troubleshooting task, do the following:

1. Cover air inlet grille. Use cover from winterization kit, if available.
2. Hook up STE-ICE.
3. Perform STE-ICE Test No. 10 Engine RPM (Idle).
4. Start engine. See TM 9-2350-366-10-1.
5. Release handbrake and apply footbrake.
6. Move gear selector to PIVOT. Do not turn steering yoke.
7. Raise engine speed to 1500 rpm until normal operating temperature is reached.
8. Lower engine rpm to idle.
9. Move gear selector to NEUTRAL.
10. Set handbrake.
11. Stop engine. See TM 9-2350-366-10-1.
12. Uncover air inlet grille.
13. Make sure MASTER POWER switch is OFF.
14. Remove STE-ICE.



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By Order of the Secretary of the Army:

Official

  
JOEL B. HUDSON  
*Administrative Assistant to the  
Secretary of the Army*  
0107107

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# METRIC CONVERSION CHART

## 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           | Milliliters          | 29.573      |
| Pints                  | Liters               | 0.473       |
| Quarts                 | Liters               | 0.946       |
| Gallons                | Liters               | 3.785       |
| Ounces                 | Grams                | 28.349      |
| Pounds                 | Kilograms            | 0.454       |
| Short Tons             | Metric Tons          | 0.907       |
| Pound-Feet             | Newton-Meters        | 1.356       |
| Pounds per Square Inch | Kilopascals          | 6.895       |
| Miles per Gallon       | Kilometers per Liter | 0.425       |
| Miles per Hour         | Kilometers per Hour  | 1.609       |

| TO CHANGE            | TO                     | MULTIPLY BY |
|----------------------|------------------------|-------------|
| Centimeters          | Inches                 | 0.394       |
| Meters               | Feet                   | 3.280       |
| Meters               | Yards                  | 1.094       |
| Kilometers           | Miles                  | 0.621       |
| Square Centimeters   | Square Inches          | 0.155       |
| Square Meters        | Square Feet            | 10.764      |
| Square Meters        | Square Yards           | 1.196       |
| Square Kilometers    | Square Miles           | 0.386       |
| Square Hectometers   | Acres                  | 2.471       |
| Cubic Centimeters    | Cubic Inches           | 0.060       |
| 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       |

## TEMPERATURE CONVERSIONS

$$5/9 (^{\circ}\text{F} - 32) = ^{\circ}\text{C}$$

212° Fahrenheit is equivalent to 100° Celsius

90° Fahrenheit is equivalent to 32.2° Celsius

32° Fahrenheit is equivalent to 0° Celsius

$$9/5 \text{ C}^{\circ} + 32 = \text{F}^{\circ}$$

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