

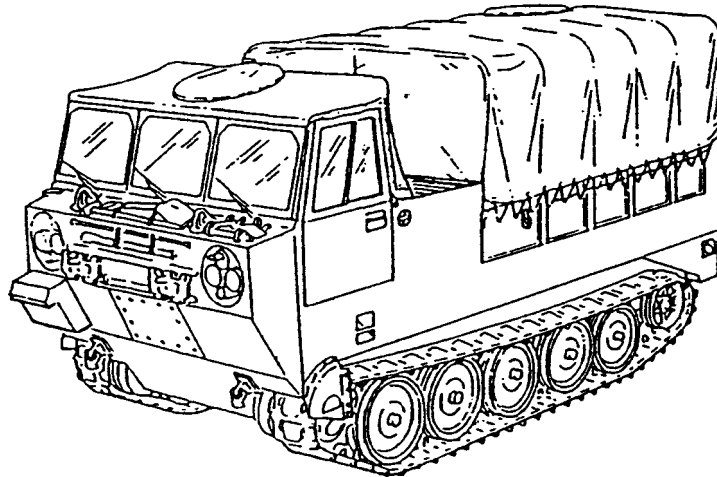
TECHNICAL MANUAL

UNIT MAINTENANCE MANUAL

FOR

**CARRIER, CARGO TRACKED, 6-TON M548A1
2350-01-096-9356 (EIC AEU)**

**M548A3
2350-01-369-6081 (EIC AE9)**



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HEADQUARTERS, DEPARTMENT OF THE ARMY

30 June 2001

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 30 June 2001

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REPLACE THROTTLE PEDAL CONTROL (M548A3).....	0201 00
REPLACE FUEL CONTROL SHAFT AND LINKAGE (M548A3).....	0202 00
REPLACE THROTTLE VALVE MODULATOR AND LEVER (M548A3).....	0203 00
ADJUST THROTTLE VALVE (TV) MODULATOR (M548A3).....	0204 00
REPLACE FUEL CUTOFF CONTROL CABLE ASSEMBLY (M548A3).....	0205 00

ENGINE FUEL PUMP FLOW TEST

0147 00

THIS WORK PACKAGE COVERS:

Testing (page 0147 00-1).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0541 00, Item 57)

Materials/Parts

Suitable container

Personnel Required

Unit Mechanic

Helper (H)

Equipment Condition

Engine stopped (see your -10)

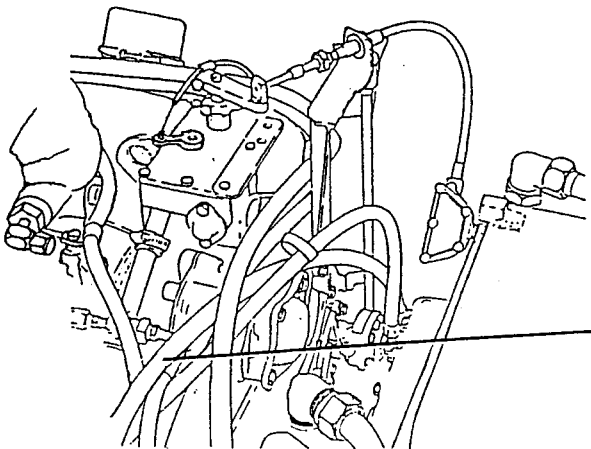
Carrier blocked (see your -10)

Power plant rear access door/panel removed
(see your -10)

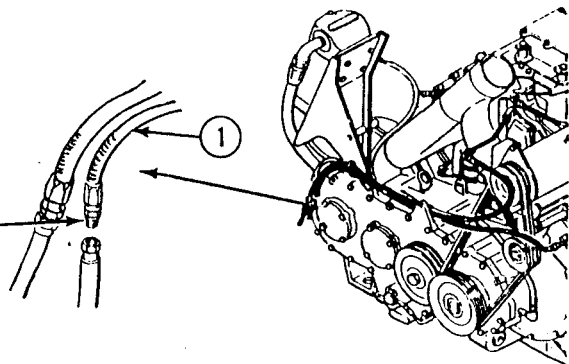
TESTING

FLOW TEST

1. Disconnect fuel return hose (1) and hold over suitable container.
2. (H) Start engine (see your -10). Run engine at 1200 rpm.
3. Measure fuel return flow for one minute. Fuel return flow should be about 1/2 gallon per minute (2 lpm).
4. Put end of fuel return hose (1) into container of fuel. If air bubbles appear on the surface, there is an air leak on the suction side of the engine fuel pump. Tighten fuel hose connections.



M548A3

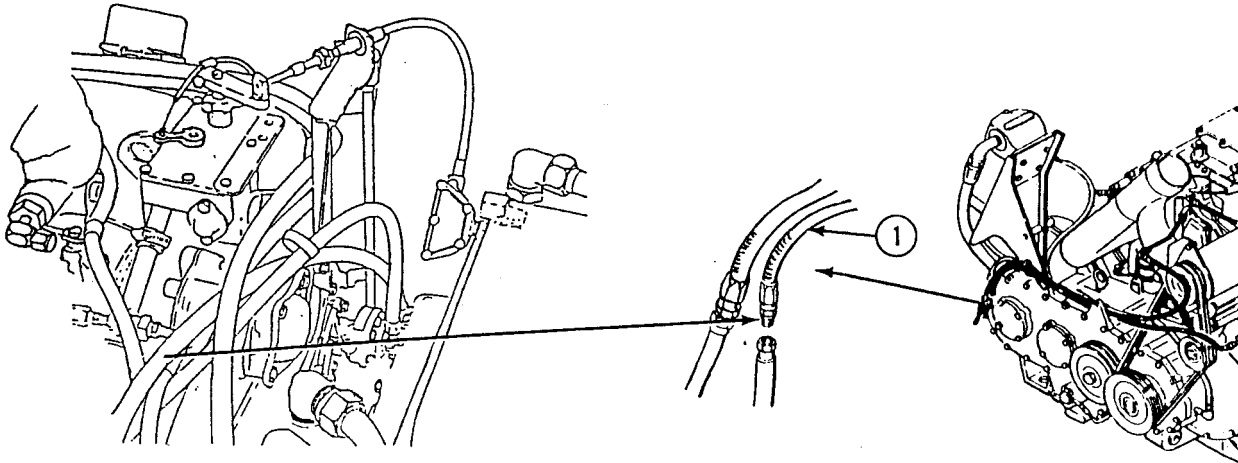


M548A1

5. If no air bubbles rise to the surface and fuel flow is not enough for good engine operation, replace primary fuel filter element (WP 0178 00 or WP 0179 00).
6. Measure fuel flow, see Step 2 and Step 3. If fuel flow is not enough for good engine operation, replace secondary fuel filter element (WP 0178 00 or WP 0179 00).
7. Measure fuel flow, see Step 3.

ENGINE FUEL PUMP FLOW TEST — Continued**0147 00**

8. (H) Stop engine (see your -10).
9. Connect fuel return hose (1).
10. If fuel flow is still not enough, replace engine fuel pump (WP 0149 00 or WP 0150 00).

**M548A3****M548A1****FOLLOW-THROUGH STEPS**

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

END OF TASK

**SERVICE PERSONNEL HEATER FUEL PUMP/ELECTRIC FUEL PUMPS
FLOW TEST**

0148 00**THIS WORK PACKAGE COVERS:**

Disassembly (page 0148 00-2).
Cleaning (page 0148 00-2).
Assembly (page 0148 00-2).
Testing (page 0148 00-3).

INITIAL SETUP:Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0541 00, Item 57)

Materials/Parts

Cleaning compound (WP 0542 00, Item 9)

Gasket

Suitable container

Personnel Required

Unit Mechanic

Helper (H)

References

See your -10

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Front cargo compartment floor plate raised
(WP 0393 00)Power plant rear access door/panel removed
(see your -10)Power plant lower rear access cover removed
(see your -10)Personnel heater fuel pump removed (WP 0430 00)
(WP 0431 00) (WP 0432 00)

DISASSEMBLY**NOTE**

There are two types of fuel pump. For BENDIX/FACET type, do Assembly Step 1, Cleaning Step 1, and Disassembly Step 2. For WALBRO type, do Assembly Step 2, Cleaning Step 1, and Disassembly Step 1.

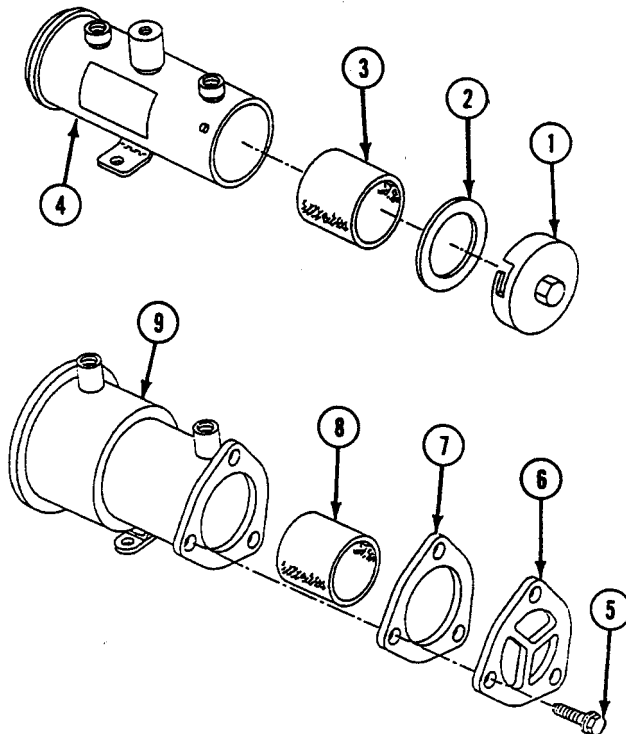
1. Remove cover (1) , gasket (2) , and strainer element (3) from fuel pump housing (4) . Discard gasket.
2. Remove three screws (5) , cover (6) , gasket (7) , and filter element (8) from fuel pump housing (9) . Discard gasket.

CLEANING

1. Clean element with cleaning compound.

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) .



SERVICE PERSONNEL HEATER FUEL PUMP/ELECTRIC FUEL PUMPS FLOW TEST — Continued

0148 00

TESTING

FLOW TEST

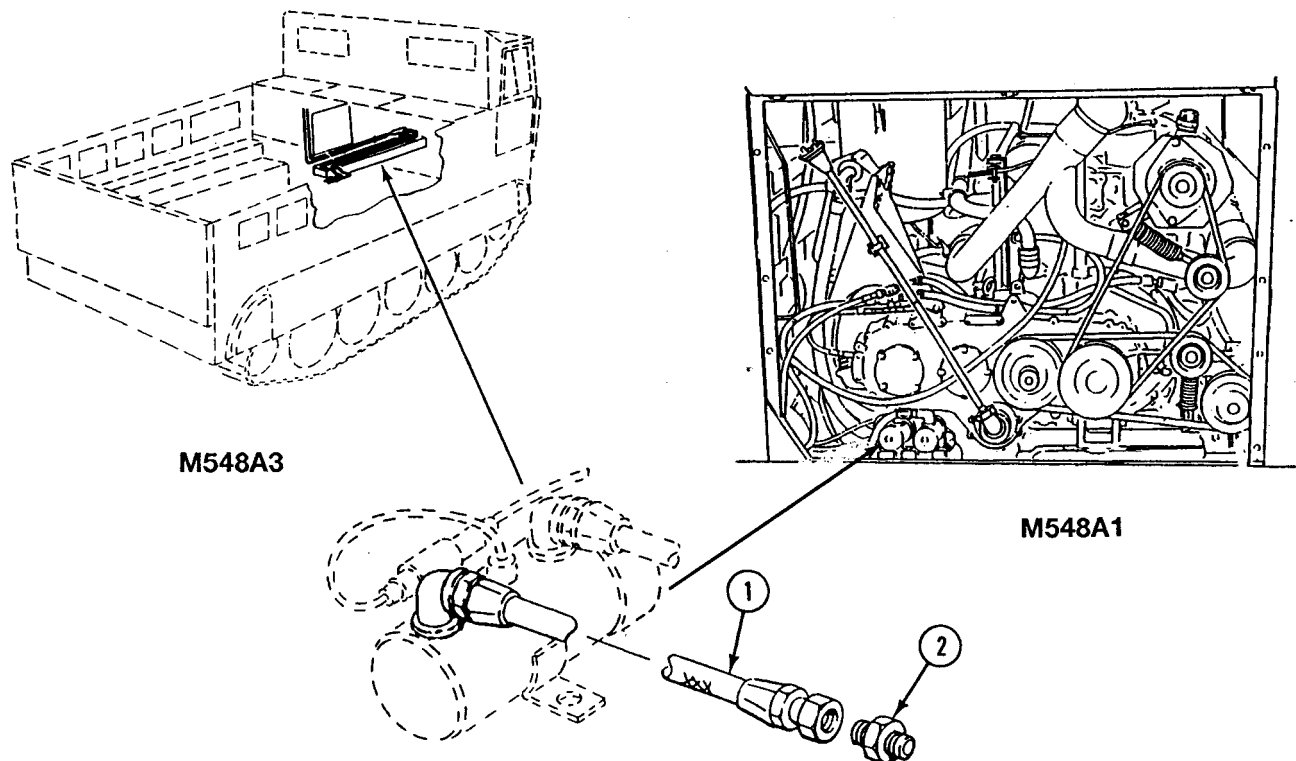
NOTE

M548A1 electric fuel pumps are located just inside power plant upper rear access door.

M548A3 electric fuel pumps are located on left side box beam in engine compartment.

There are two types of electric fuel pumps: the Bendix/Facet and Walbro. Both models are tested the same way. The Bendix/Facet is shown.

1. Disconnect left fuel pump outlet hose (1) from fuel pump adapter (2) and hold hose over container.
2. (H) Turn MASTER SWITCH ON and fuel pump switch ON (see your -10).
3. Measure fuel flow for one minute. Fuel flow should be 1 1/4 to 2 1/2 quarts per minute (1.2 to 2.5 lpm).
4. Put end of outlet hose (1) into container of fuel. If air bubbles appear on surface, there is an air leak on suction side of fuel pump.



5. (H) Turn MASTER SWITCH OFF (see your -10). Tighten hose connections between fuel compartment and electric fuel pump if needed. Remove left rear and right forward fuel compartment access covers (WP 0163 00). Clean screens at end of each tube. Remove any blockage from pickup tubes. Use cleaning compound.
6. (H) Turn MASTER SWITCH ON (see your -10). Check fuel flow. Fuel flow should be 1 1/4 to 2 1/2 quarts per minute (1.2 to 2.5 lpm). If not, replace electric fuel pump (WP 0149 00).
7. (H) Turn MASTER SWITCH OFF and fuel pump switch OFF (see your -10).

SERVICE PERSONNEL HEATER FUEL PUMP/ELECTRIC FUEL PUMPS FLOW TEST —
Continued

0148 00

FOLLOW-THROUGH STEPS

1. Install personnel heater fuel pump (WP 0430 00) (WP 0431 00) (WP 0432 00).
2. Install power plant lower rear access cover (see your -10).
3. Install power plant rear access door/panel (see your -10).
4. Lower front cargo compartment floor plate (WP 0393 00).

END OF TASK