

TO: SERVICE MANAGER  TECHNICIANS   
PARTS MANAGER

**No. 84-4**

## 86234A4 Carter Fuel Pump Used on Non-Sight Tube Engines - MCM 120/140/160/165 Models

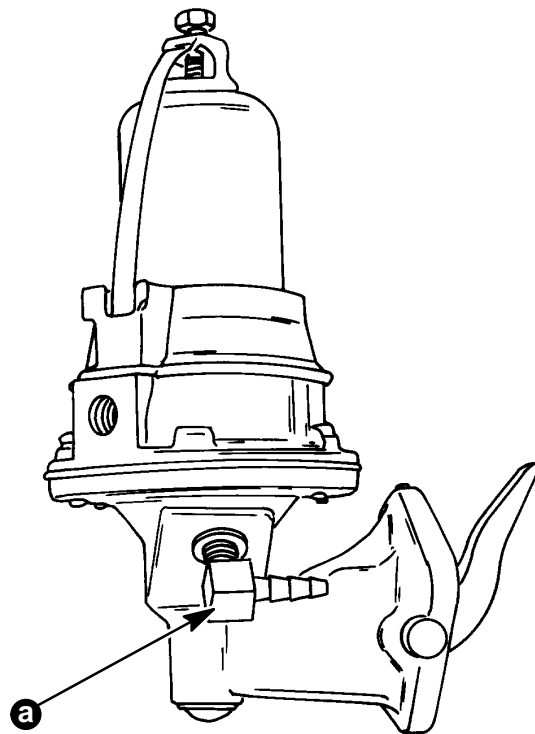
The original Carter fuel pump, for the models listed below, has been superseded by the 86234A4 fuel pump.

MODEL	SERIAL NO. GROUPS
MCM 120	4469865 and Below
MCM 140	4460664 and Below
MCM 160	ALL
MCM 165	4471565 and Below

90° elbow fitting (in kit) must be installed into bottom threaded hole as shown in Figure 1. If fuel pump was installed, on engine, without 90° fitting, order 22-73817 elbow and install.

### **⚠ WARNING**

**90° Elbow Fitting must be installed on these models.**



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a - 22-73817 90° Elbow Installed

**Figure 1. 86234A4 Carter Fuel Pump**

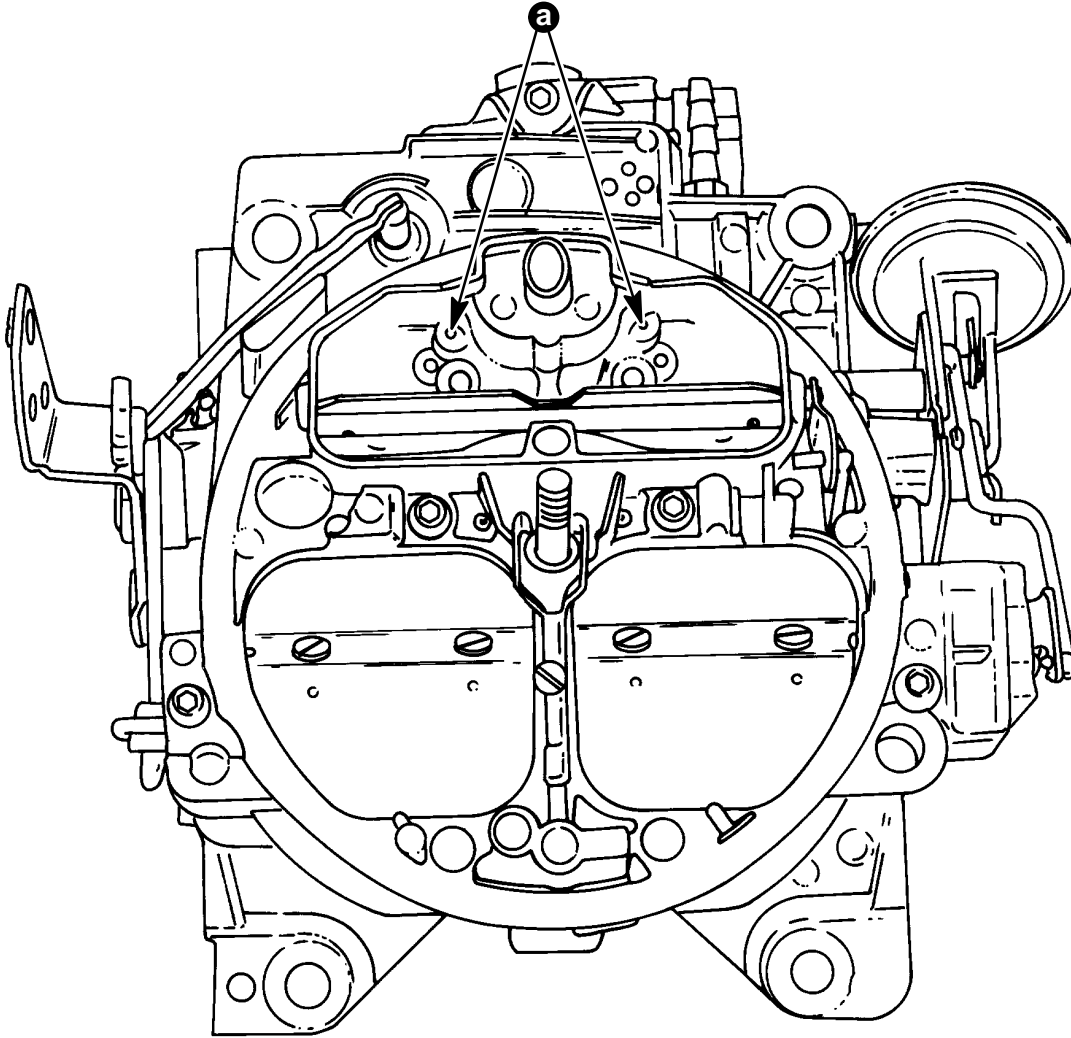
# Quadrajets Carburetor Rough Idle

If you receive a complaint that the engine runs rough and cannot be smoothed out with idle adjustment screws, refer to Step 1.

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## Step 1.

- a. With engine running at idle RPM, momentarily plug vent holes with 2 ballpoint pens. If engine idles better go to Step 2.



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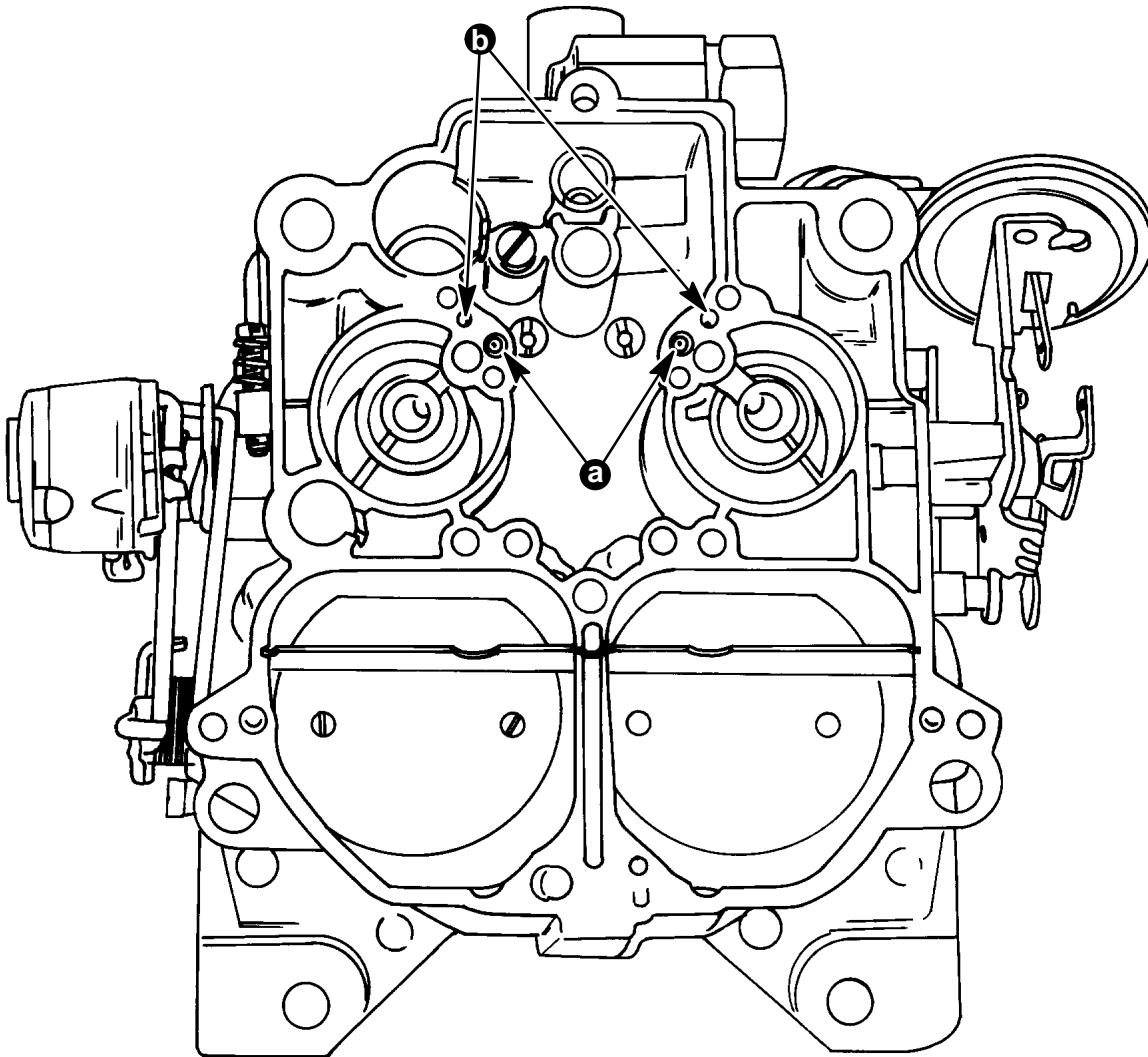
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## Step 2.

- Remove carburetor from engine.
- Remove air horn assembly from carburetor.
  - a. Clean out idle air vent tubes using a fine wire (approx. .020" O.D.). The vent tubes have a smaller I.D. at the bottom than they do at the top.
  - b. Drill out idle channel restriction to .055" (#54 drill).

**NOTE:** MCM 185, 488 and later production V-8 engines have this done.

- Before reassembling carburetor, remove main fuel jets and blow out all channels with compressed air.
- Reinstall carburetor onto engine.



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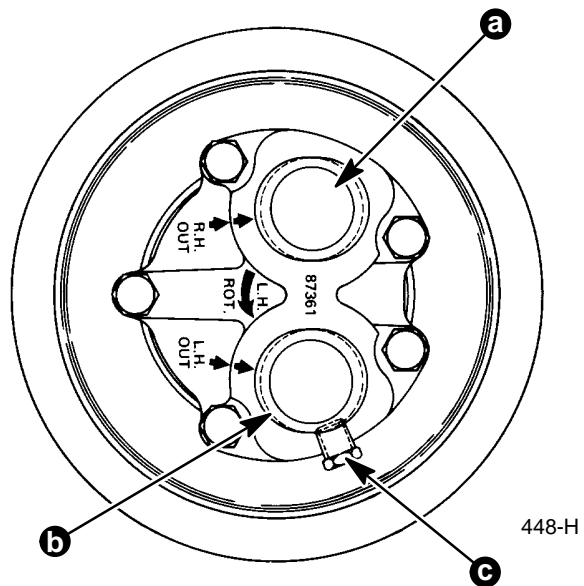
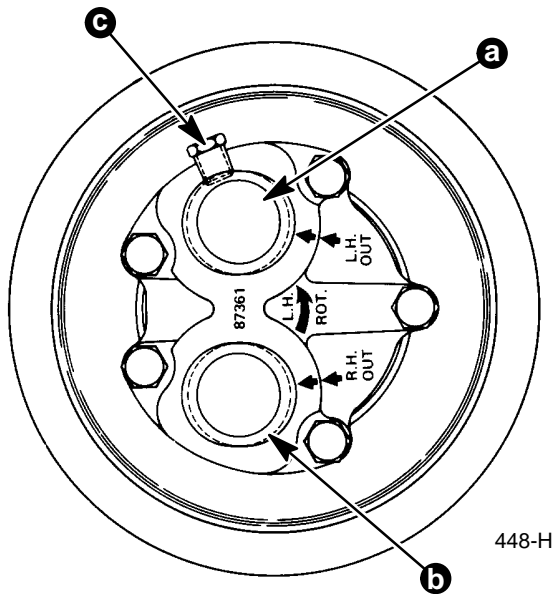
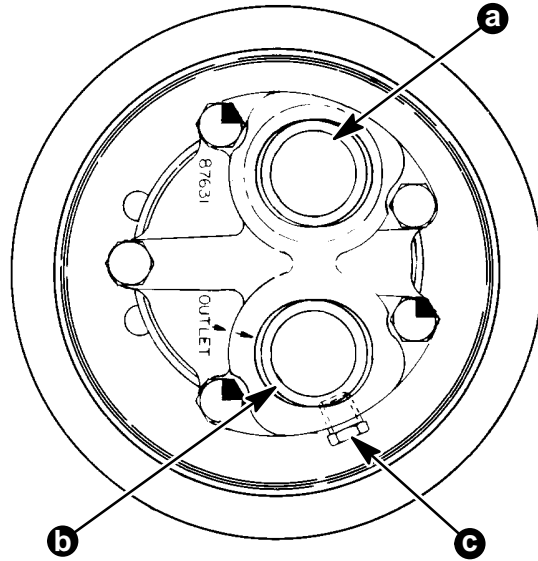
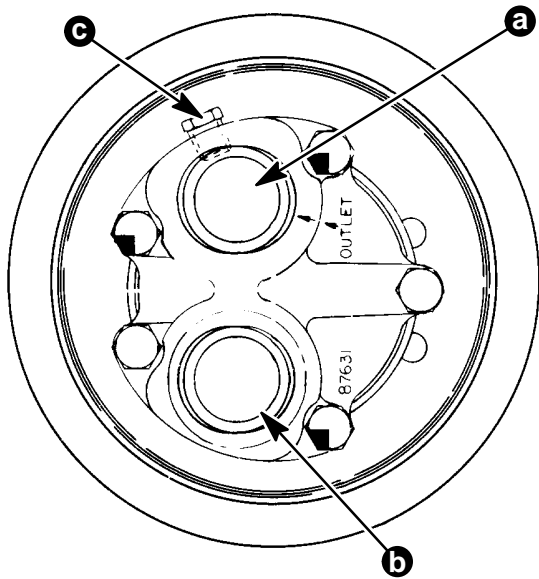
# Seawater Pickup Pump Hose Corrections - MCM and MIE Models

MCM and MIE L.H. (standard) rotation engines: Pump must be positioned as shown in Figure 2.

*NOTE: Brass plug should be on top.*

MIE R.H. (opposite) rotation engines: Pump must be positioned as shown in Figure 3.

*NOTE: Brass plug should be on bottom.*



- a - Connect Water OUTLET Hose Here
- b - Connect Seawater INLET Hose Here
- c - Brass Plug

**Figure 2. MCM and MIE L.H. Engines**

- a - Connect Water OUTLET Hose Here
- b - Connect Seawater INLET Hose Here
- c - Brass Plug

**Figure 3. MIE R.H. Engines**