

- A. 86234A4 Carter Fuel Pump Use On Non-Sight Tube Engines - MCM 120/140/160/165 Models
- B. Quadrajets Carburetor Rough Idle
- C. Seawater Pickup Pump Hose Corrections - MCM and MIE Models

CIRCULATE TO:  
 SERVICE MANAGER   
 PARTS MANAGER   
 MECHANICS   
 "Place in a Service Bulletin Binder"

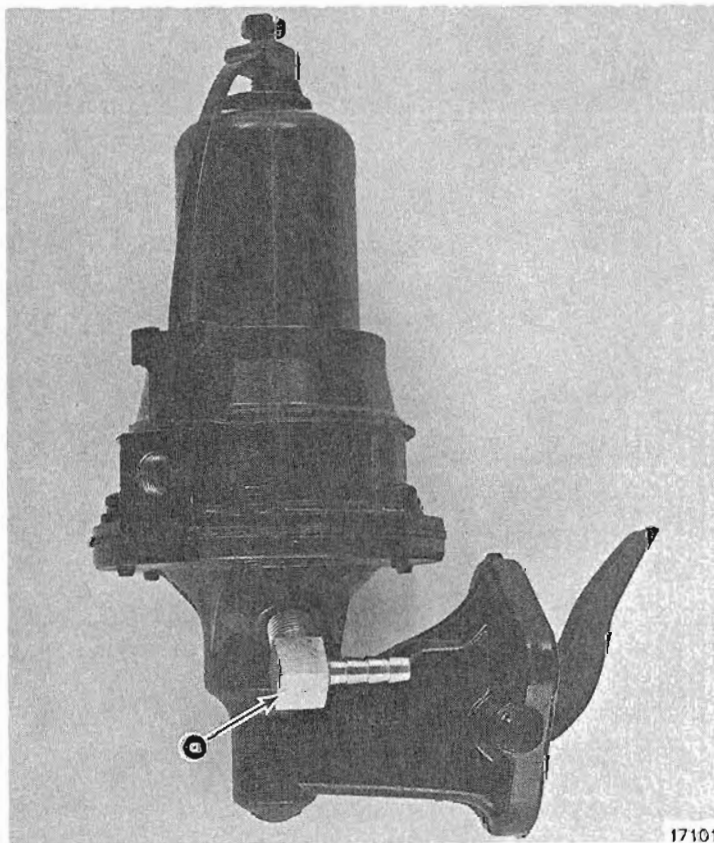
**A. 86234A4 CARTER FUEL PUMP USED ON NON-SIGHT TUBE ENGINES - MCM 120/140/160/165 MODELS**

The original Carter fuel pump, for the models listed below, has been superseded by the 86234A4 fuel pump.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



a - 22-73817 90° Elbow Installed  
**Figure 1. 86234A4 Carter Fuel Pump**

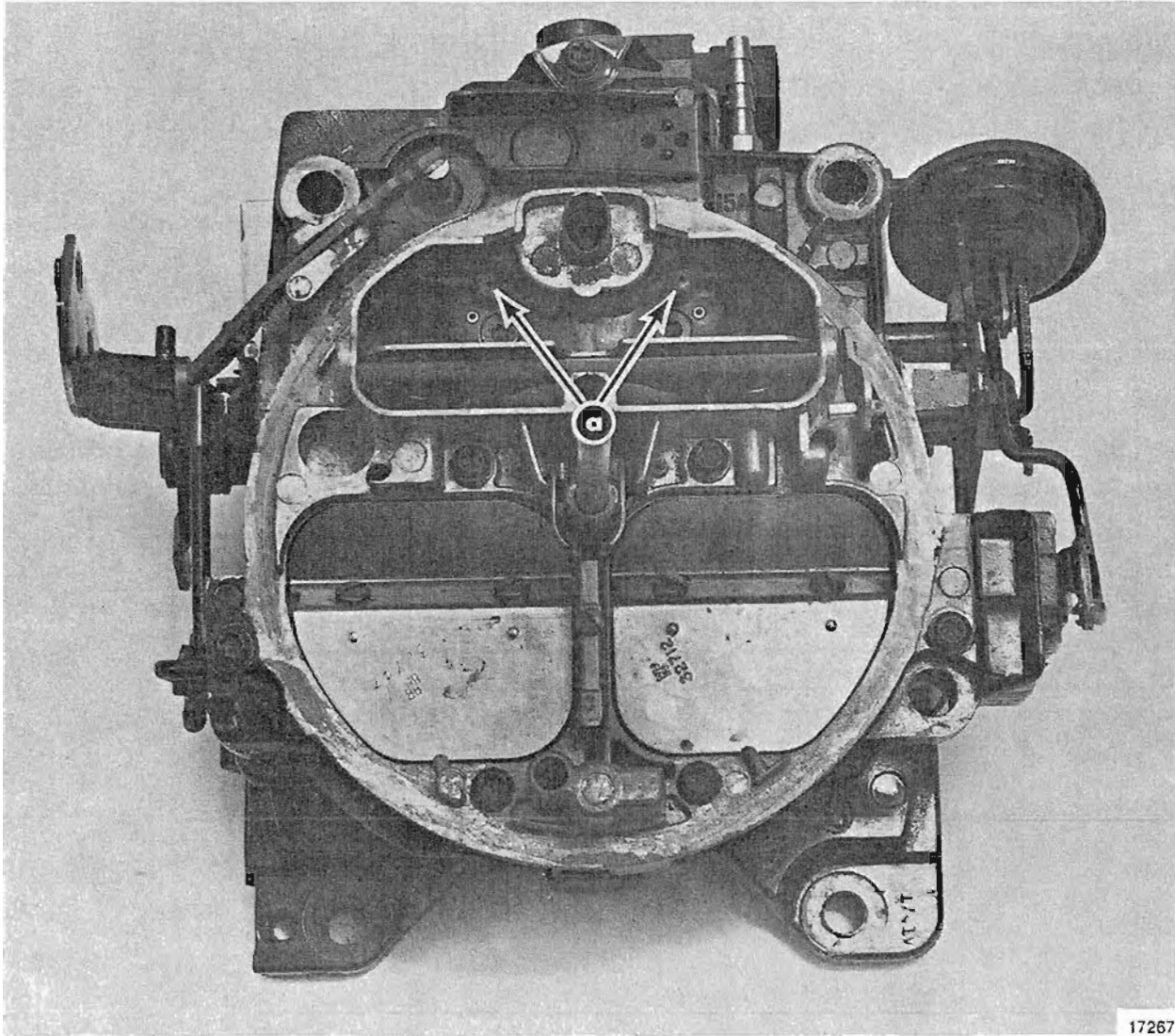
## B. QUADRAJET CARBURETOR ROUGH IDLE

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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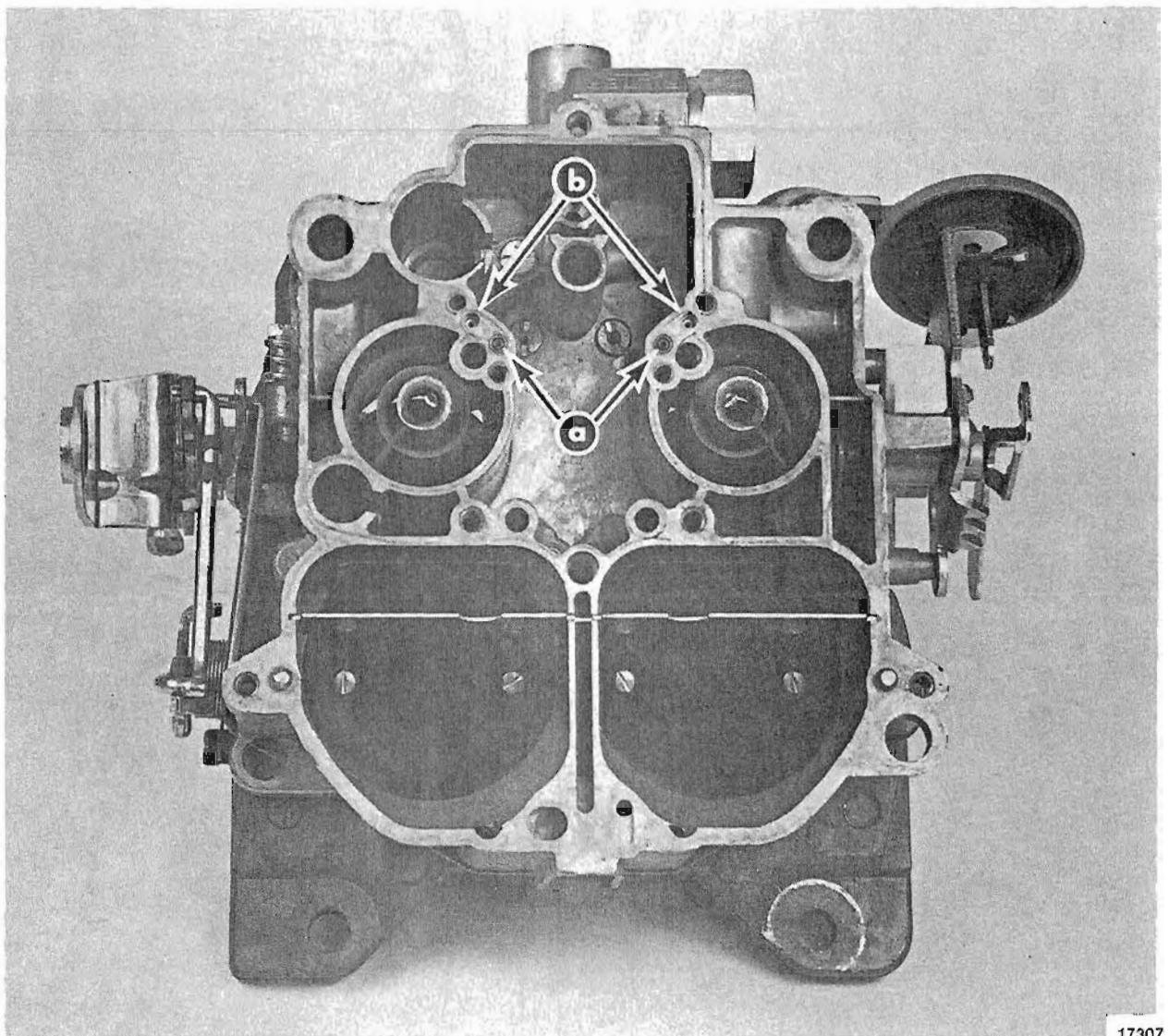
### STEP 1

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



## STEP 2

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



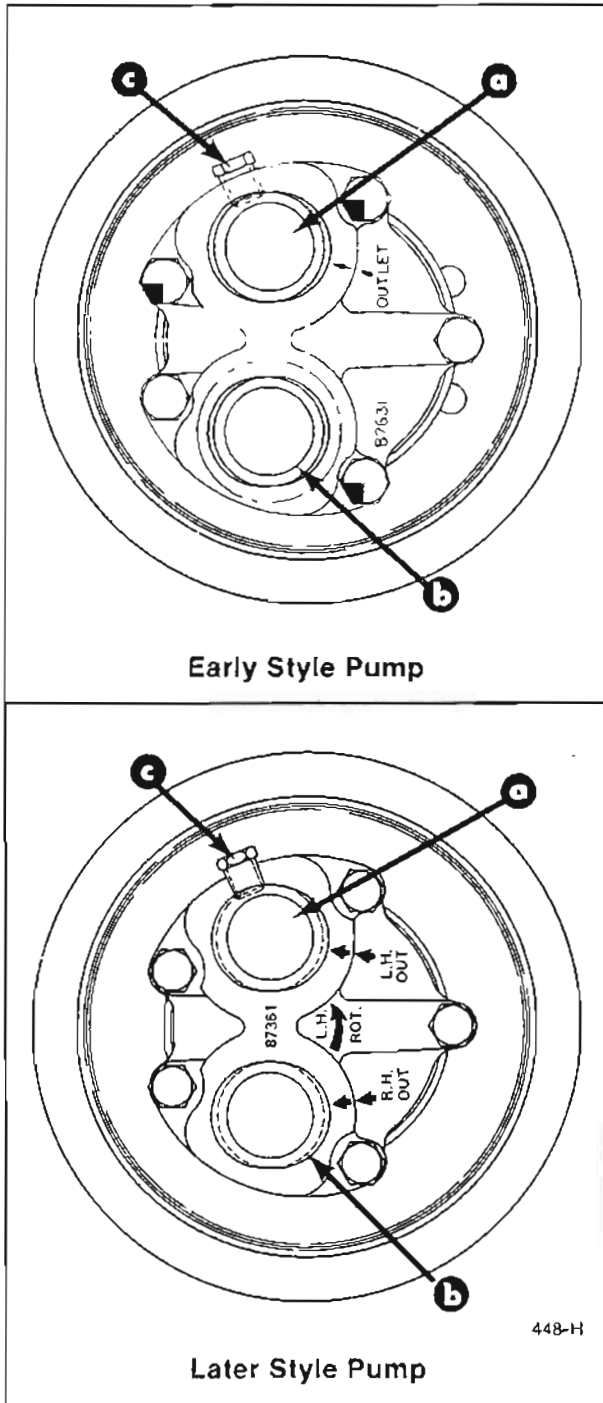
**C. SEAWATER PICKUP PUMP HOSE CORRECTIONS - MCM and MIE MODELS**

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

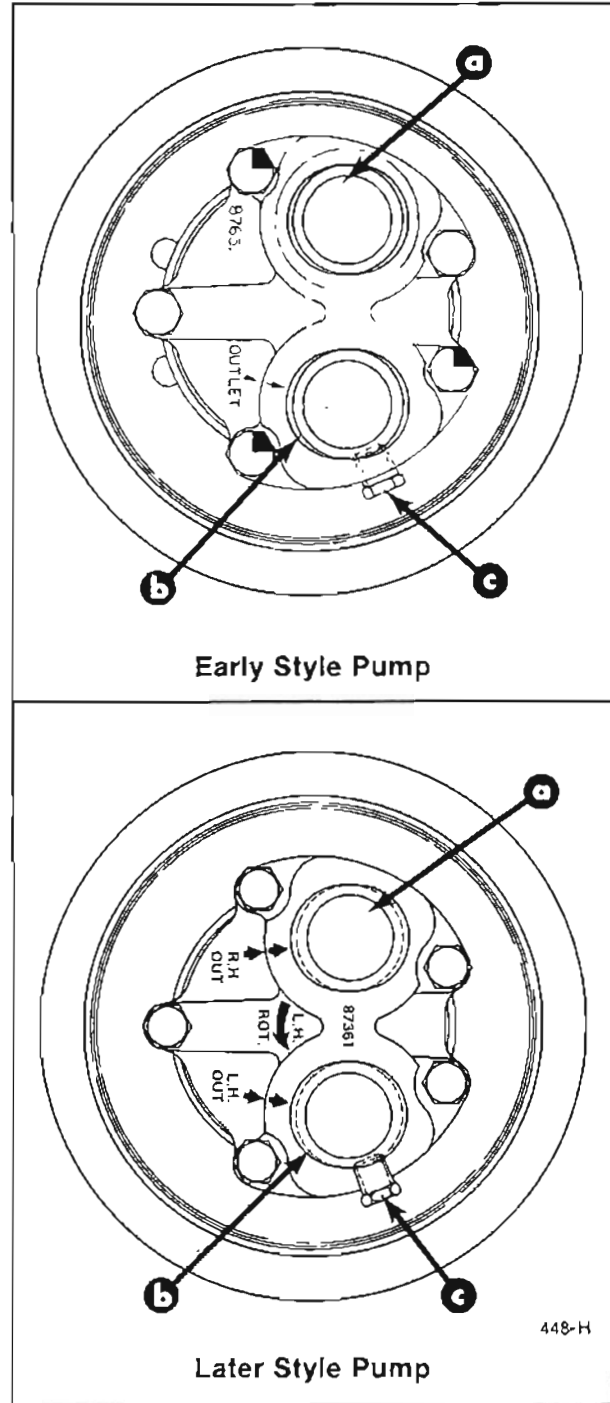
*NOTE: Brass plug should be on top.*

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

*NOTE: Brass plug should be on bottom.*



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



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

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

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