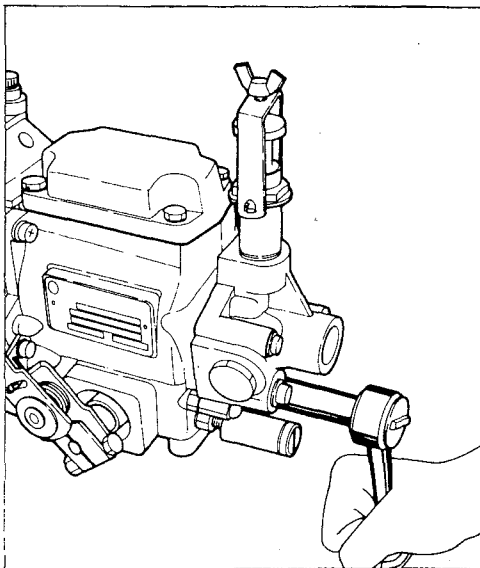


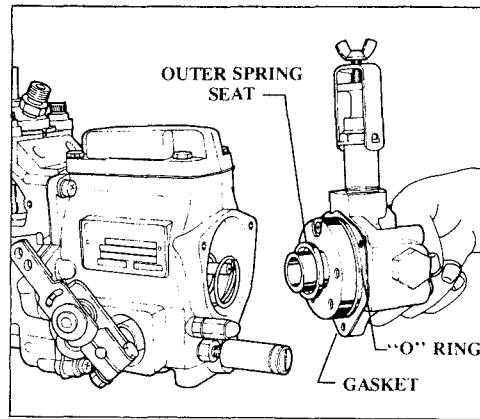
**FIGURE 4-4  
LOOSENING BARREL**

(5) Loosen and remove the three supply pump mounting bolts and washers.



**FIGURE 4-5  
REMOVING SUPPLY PUMP  
MOUNTING BOLTS**

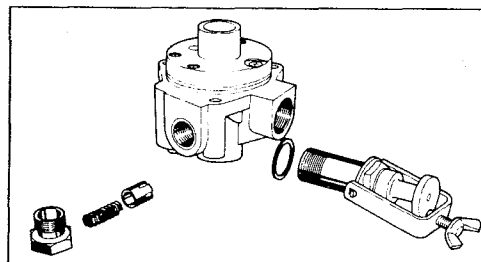
(6) Remove the supply pump and fiber gasket.



**FIGURE 4-6  
REMOVING SUPPLY PUMP AND GASKET**

(7) Remove the fiber gasket from supply pump and remove the outer spring seat (shown in figure 4-6) from the hub of supply pump insert.

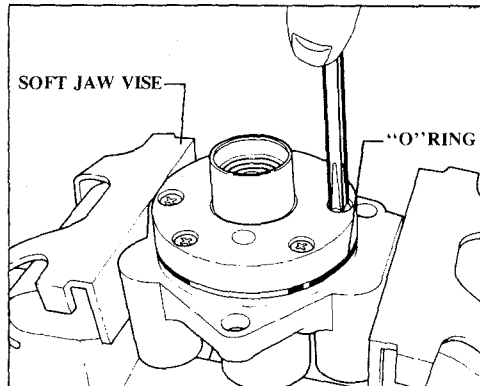
(1) The hand primer assembly with gasket and the regulating valve screw, spring and valve are next removed from supply pump cover.



**FIGURE 4-7  
HAND PRIMER AND REGULATING VALVE  
ASSEMBLY REMOVED**

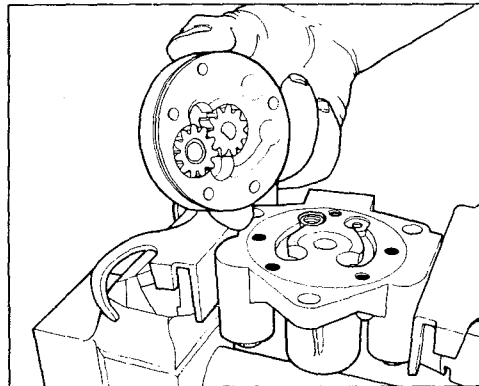
## **B. Supply Pump and Hand Primer Disassembly**

- (2) Clamp the supply pump lightly in a **SOFT JAW VISE**. Loosen and remove the five insert screws and lockwashers and remove the "o" ring from groove in insert.



**FIGURE 4-8  
REMOVING SCREWS AND  
LOCKWASHERS**

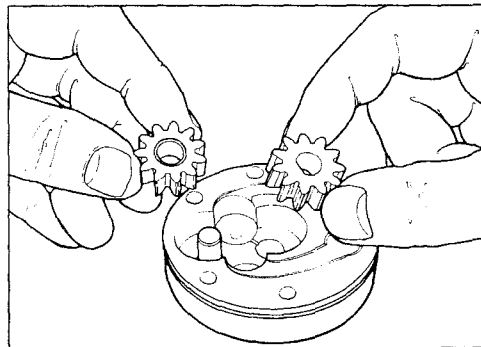
- (3) Tap insert assembly with a plastic or fiber mallet to separate insert from cover, then remove insert.



**FIGURE 4-9  
REMOVING INSERT ASSEMBLY**

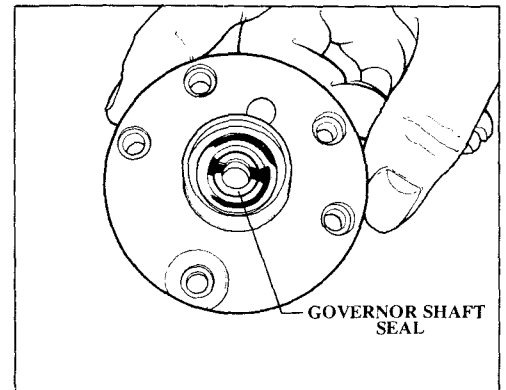
- (4) If applicable, remove supply pump cover (shim) gasket which may be included in early supply pumps.

- (5) Gears are next removed from insert.



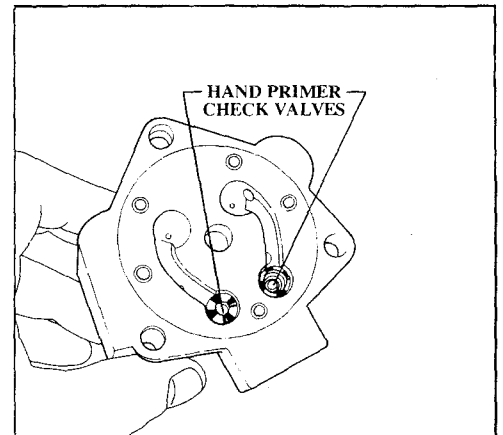
**FIGURE 4-10  
REMOVING GEARS**

- (6) Remove governor shaft seal from supply pump insert with a suitable seal puller.



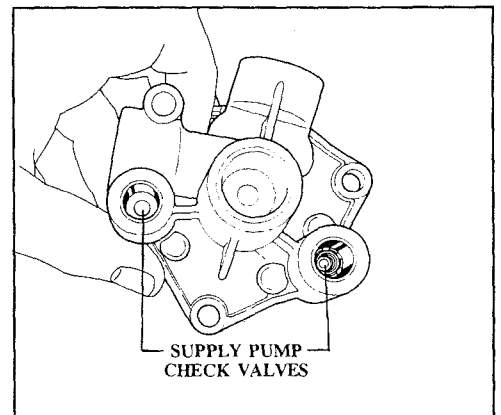
**FIGURE 4-11  
GOVERNOR SHAFT SEAL**

- (7) Remove the two hand primer check valves from the cover with a suitable extractor.



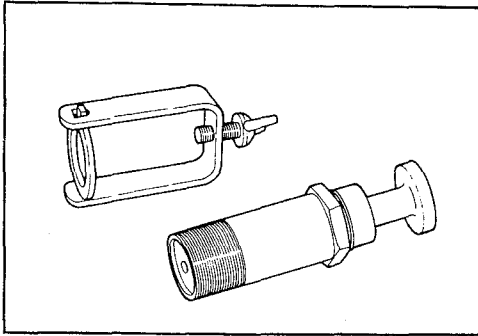
**FIGURE 4-12  
HAND PRIMER CHECK VALVES**

- (8) Remove the two supply pump check valves from the fuel inlet and outlet holes of the cover with a suitable extractor.



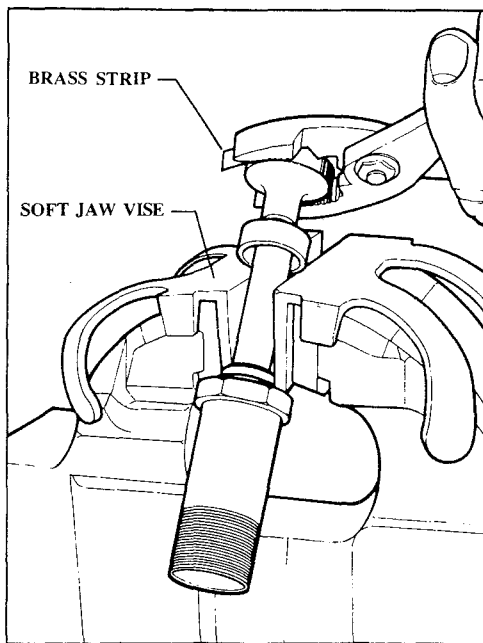
**FIGURE 4-13  
SUPPLY PUMP CHECK VALVES**

- (9) Remove the bracket assembly from the hand primer barrel.



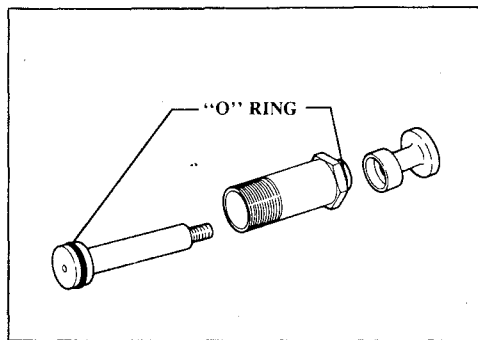
**FIGURE 4-14**  
**BRACKET ASSEMBLY REMOVED**  
**FROM BARREL**

- (10) Pull the plunger and knob out as far as possible and grip the plunger stem in a soft-jaw vise. (See figure 4-15). Use caution to avoid scoring the stem.



**FIGURE 4-15**  
**REMOVING PLUNGER KNOB**

- (11) Wrap a thin strip of soft brass, or equivalent, around the knob and remove the knob from the plunger with a pair of pliers.
- (12) Remove plunger from barrel, then remove "o" rings from both plunger and barrel.



**FIGURE 4-16**  
**PLUNGER, BARREL AND KNOB**  
**DISASSEMBLED**

**Note:** If any burrs are left by pliers on plunger knob, they should be filed off to prevent cutting hands when primer is used.

- (13) Clean all parts in Varsol or an equivalent cleaning agent. Note special cleaning instructions for components as follows:
- Care should be taken to avoid scratching or damaging the sealing faces of supply pump cover and insert assembly.
  - Remove all gasket remnants from gasket surfaces. A scraper can be used but care must be taken to avoid scratches.
  - Blow dry, filtered compressed air through all fuel ducts to make certain all ducts are clean and open.
  - Dry all parts thoroughly and place them on a clean cloth.