

Note: To loosen the governor housing, it may be necessary to tap the side of the housing with a soft face mallet.

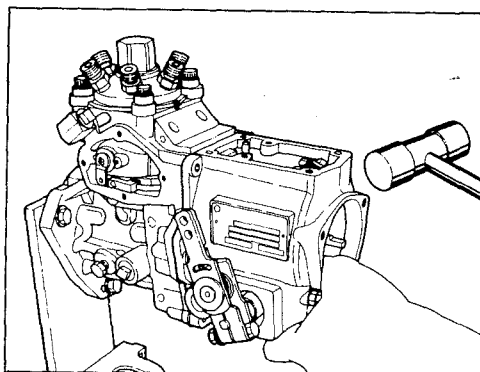


FIGURE 2-13
LOOSENING GOVERNOR HOUSING

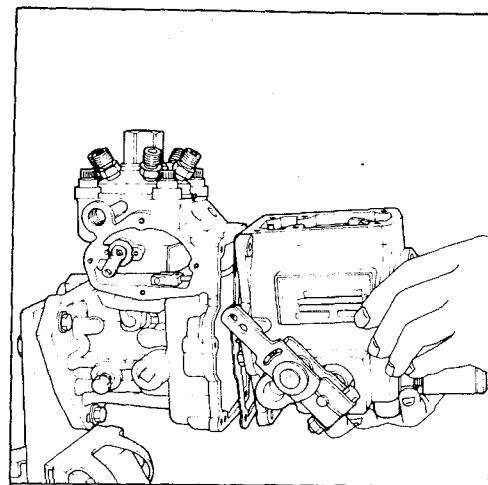


FIGURE 2-14
REMOVING GOVERNOR

- (10) Carefully remove the governor from the pump. The governor housing will have to be lifted and tipped slightly to make certain the control rod and the excess fuel device supply tube are not bent or damaged during governor removal.

B. **Governor** **Disassembly**

- (1) Place governor assembly on a clean bench.
(2) Remove the three bearing support plate screws and lockwashers.

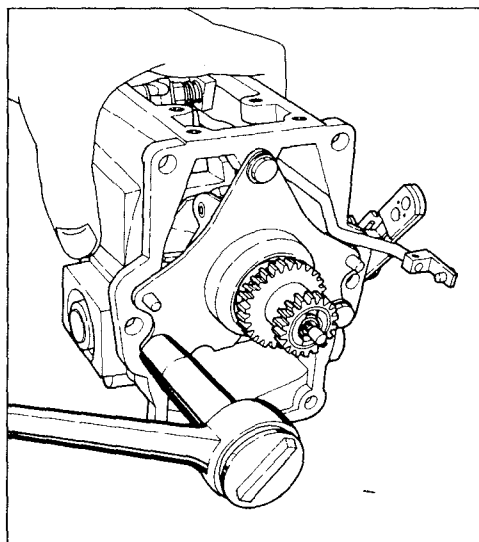


FIGURE 2-15
REMOVING BEARING SUPPORT PLATE
SCREWS

- (3) Remove the weight and shaft assembly from the governor housing.

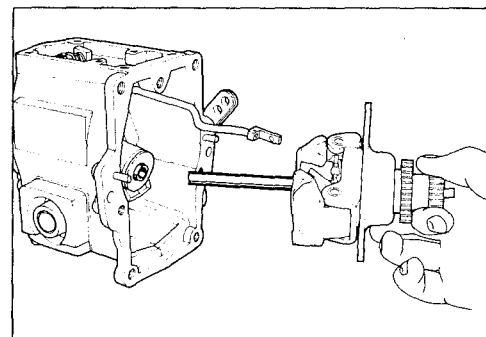


FIGURE 2-16
REMOVING WEIGHT AND SHAFT
ASSEMBLY

- (4) Disengage governor sleeve assembly from fulcrum lever pivot pins to remove governor sleeve, thrust washer(s) and thrust bearing from governor housing. Refer to figure 2-17.

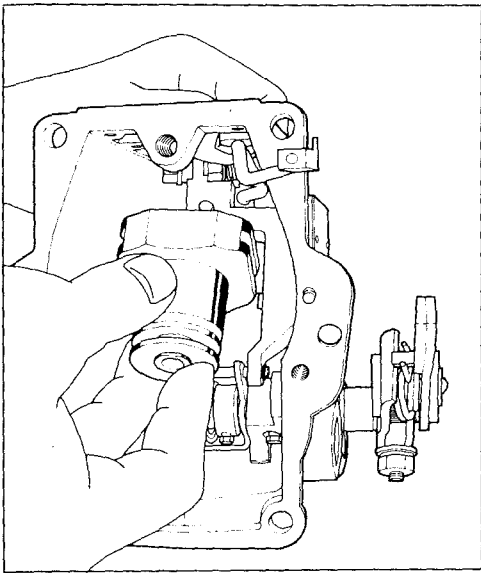


FIGURE 2-17
REMOVING GOVERNOR SLEEVE,
THRUST WASHERS, AND THRUST
BEARING

(5) Remove the thrust washer(s) and thrust bearing from the governor sleeve.

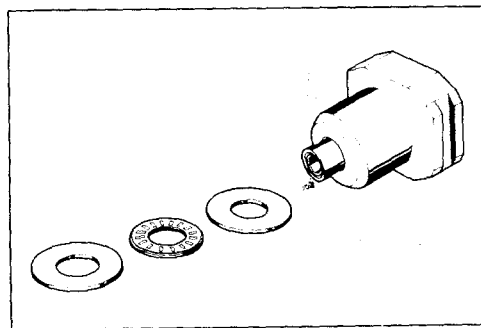


FIGURE 2-18
GOVERNOR SLEEVE, THRUST
WASHERS, AND THRUST BEARING

(6) Remove the set screws from the stop lever and from the spring plate assembly.

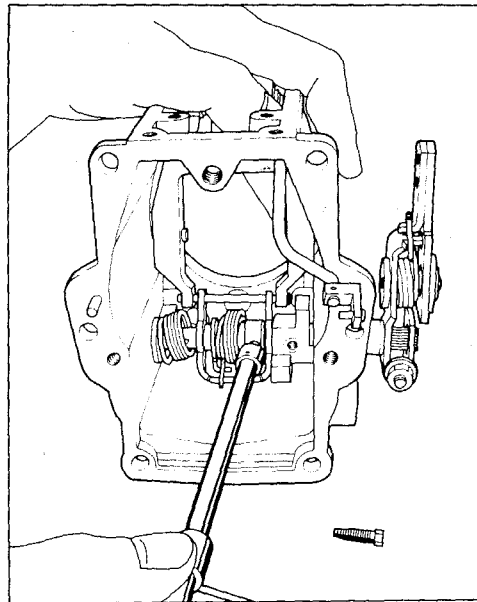


FIGURE 2-19
REMOVING SET SCREWS

(7) Next, disconnect the low idle return spring from the operating shaft using a length of hooked wire.

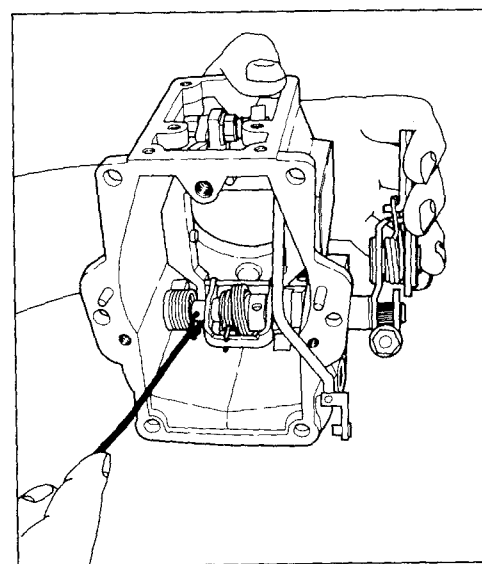
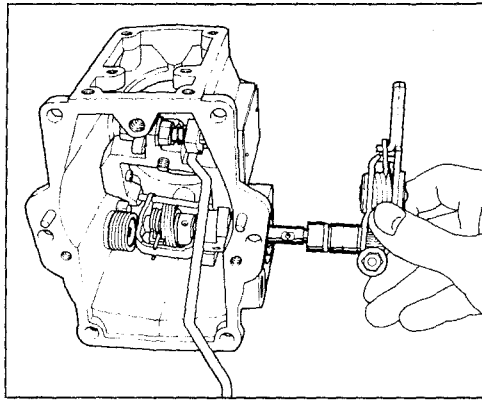


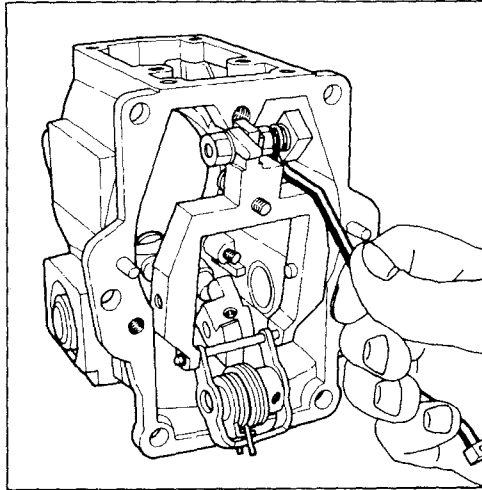
FIGURE 2-20
DISCONNECTING LOW IDLE
RETURN SPRING

(8) Pull the operating shaft, with operating lever attached, out of the governor housing. (Refer to figure 2-21). Remove "O" ring from shaft.



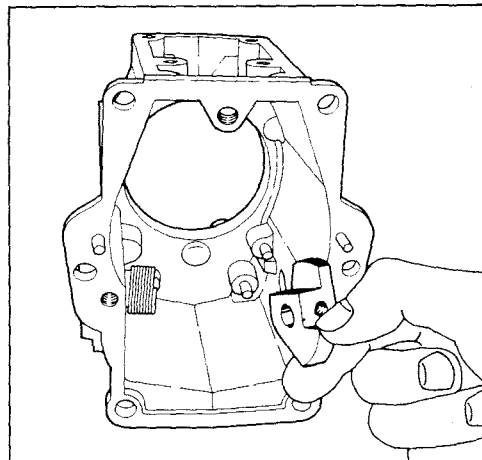
**FIGURE 2-21
REMOVING OPERATING SHAFT**

- (9) Remove the fulcrum lever as an assembly including the control rod, bracket, and torsion spring plate.



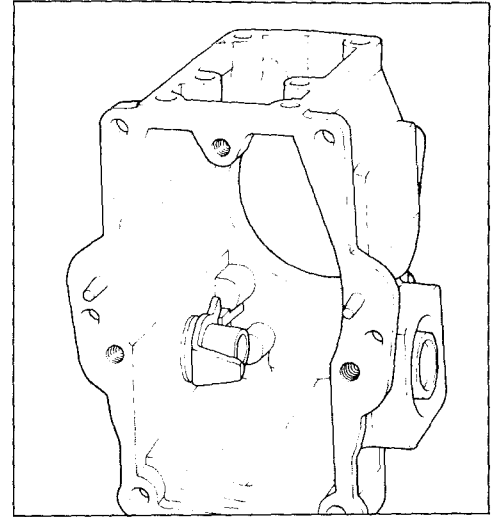
**FIGURE 2-22
REMOVING CONTROL ROD AND
FULCRUM LEVER ASSEMBLY**

- (10) Remove the internal stop lever from the governor housing and then remove the low idle return spring from the governor shaft.



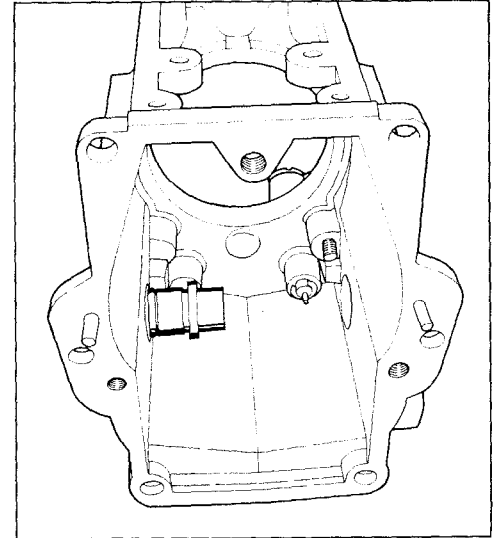
**FIGURE 2-23
REMOVING STOP LEVER**

- (11) If pump is equipped with a shut-off shaft (see figure 2-24) the external stop lever must be removed prior to removing the shaft.



**FIGURE 2-24
GOVERNOR SHUT-OFF SHAFT**

- (12) Remove governor shaft (or shut-off shaft) by pushing it into the governor housing. (Refer to figure 2-25). Then, removing "O" ring from shaft.



**FIGURE 2-25
REMOVING GOVERNOR SHAFT**

- (13) Remove high idle screw assembly from governor housing and remove capnut, copper gasket and lock nut from high idle screw.

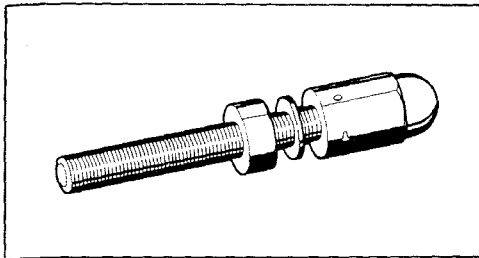


FIGURE 2-26
HIGH IDLE SCREW, CAPNUT, WASHER
AND JAM NUT

- (14) When pump is equipped with low idle screw capsule assembly, remove retaining ring inside governor housing.
- (15) Next, remove low idle screw capsule assembly from governor housing. (See figure 2-27). For servicing of the capsule, refer to Section V, shut-off devices.

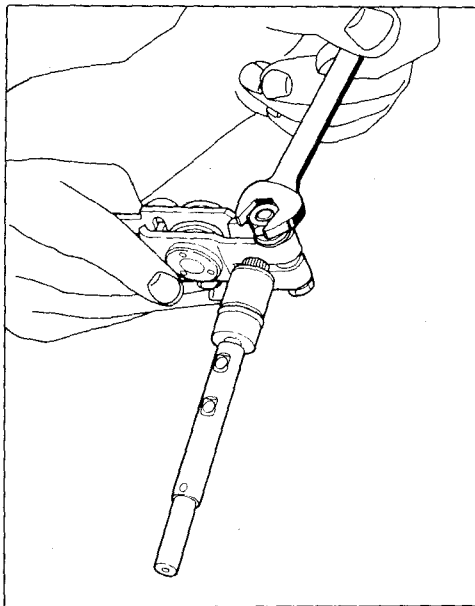


FIGURE 2-28
REMOVING OPERATING LEVER
FROM SHAFT

- (18) Remove spring plate assembly and torsion spring from fulcrum lever bracket.

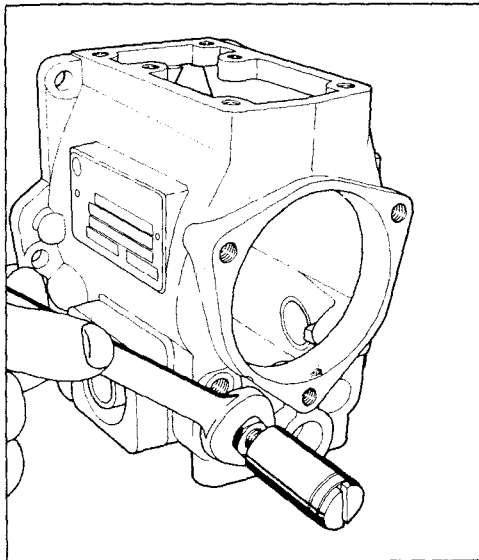


FIGURE 2-27
REMOVING LOW IDLE CAPSULE
ASSEMBLY

- (16) When pump is equipped with low idle screw, remove retaining ring, lock nut, "O" ring and screw.

Note: If "nylock" type low idle adjusting screw is used, check slippage torque. If torque is below 15 lb.-inch, replace screw.

- (17) Remove operating lever nut, lockwasher, flat washer, screw and spacing washer from the operating lever. (Refer to figure 2-28). Next, pull the operating lever from the shaft and remove the spacing washer.

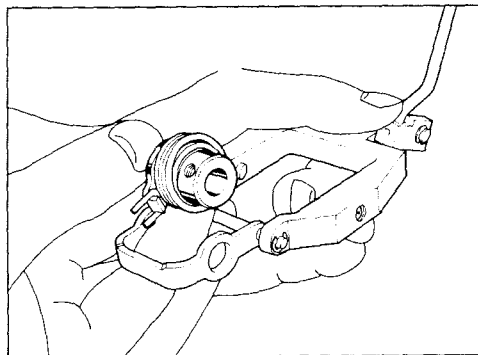


FIGURE 2-29
REMOVING SPRING PLATE ASSEMBLY
AND SPRING

- (19) The torsion spring can be removed from the plate assembly as follows:
 - (a) Assemble two TSE 77304 torsion spring tools or two short 6" lengths of high pressure discharge tubing over the ends of the spring.
 - (b) Wind up (expand) the spring and slip it from the plate assembly. Refer to figure 2-30.

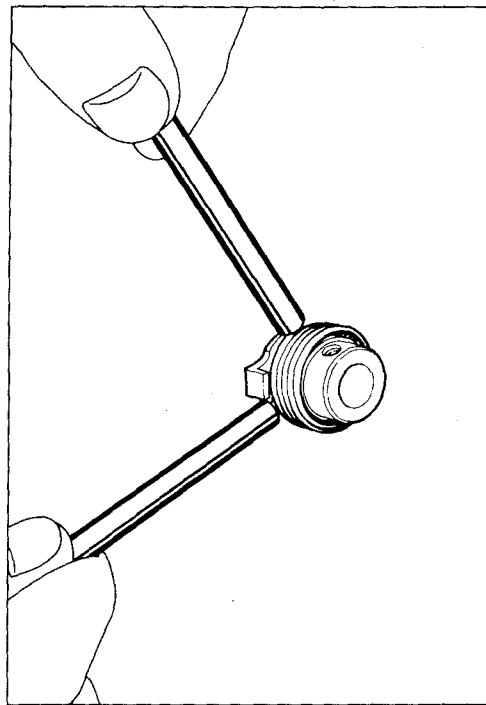


FIGURE 2-30
REMOVING TORSION SPRING

- (20) Clean components as follows:
- Clean all parts in Varsol or equivalent cleaning agent.
 - 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 lube oil ducts when subassemblies are **completely** disassembled to make certain all ducts are clean and open.
 - Dry parts thoroughly and place them on a clean cloth.

C. Governor Sub-assemblies

1. Fulcrum Lever

1.1 Disassembly

- Remove cotter pin from fulcrum lever assembly and then remove washer, control rod, spring and spring seat washers from cam securing screw.

Note: The control rod spring, spring seat washer and spring adjusting nut are omitted in a non spring-loaded control rod and fulcrum lever assembly.

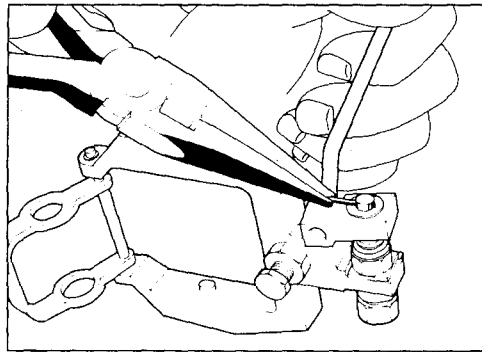


FIGURE 2-31
REMOVING COTTER PIN FROM FULCRUM LEVER ASSEMBLY

- Remove cam securing nut, lockwasher and cam nose from cam securing screw. (See figure 2-32). Then, remove cam securing screw with adjusting nut from the fulcrum lever assembly.

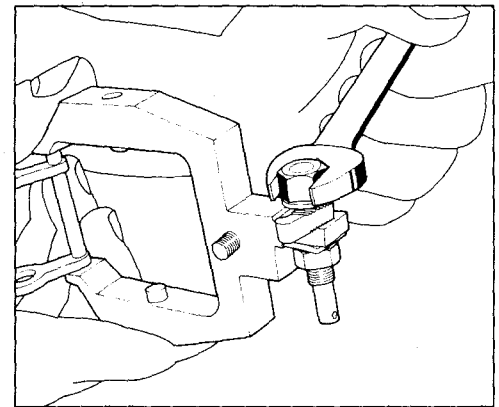


FIGURE 2-32
REMOVING CAM SECURING NUT

- Remove Nylock adjusting nut from cam securing screw only if loose or damaged and needs replacement.
- Remove droop screw and locknut if used.