

## 21-90 TORQUEFLITE—TRANSMISSION

(6) Place a drain pan under transmission, then remove the ten hex-head valve body to transmission case bolts. Hold valve body in position while removing the bolts.

(7) While lowering valve body down out of transmission case, pull it forward out of the case. If necessary, rotate propeller shaft to align parking gear and sprag to permit knob on end of parking control rod to pass the sprag.

(8) Remove accumulator piston and spring from transmission case. Inspect piston for nicks, scores and wear. Inspect spring for distortion. Inspect rings for freedom in piston grooves and wear or breakage. Replace parts as required.

### Manual Lever Shaft Seal

(1) If valve body manual lever shaft seal requires replacement, drive it out of the case with a punch.

(2) Drive a new seal into the case with a 15/16 inch socket and hammer (Fig. 14).

**NOTE:** This seal can be replaced without removing the valve body from transmission by using a small screwdriver to pry seal out of its bore. Be careful not to scratch manual lever shaft or the seal bore in transmission.

### VALVE BODY DISASSEMBLY (A-904)

**CAUTION:** Never clamp any portion of valve body or transfer plate in a vise. Any slight distortion of the aluminum body or transfer plate will result in sticking valves, excessive leakage or both. When removing or installing valves or plugs, slide them in or out carefully. Do not use force.

### Filter, Transfer Plate, and Pressure Regulators

(1) Place valve body assembly on repair stand, Tool C-3749, (Fig. 15). Remove three screws from fluid filter and lift off the filter.

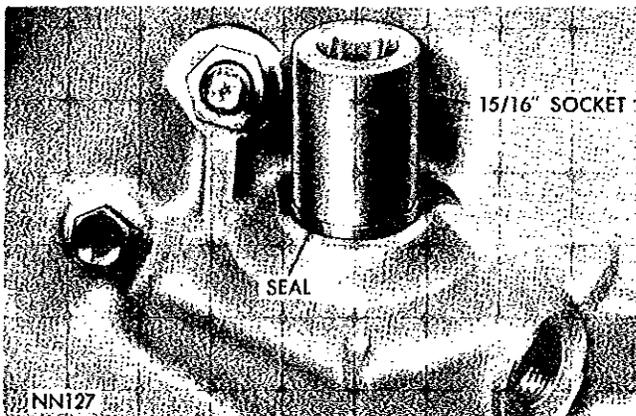
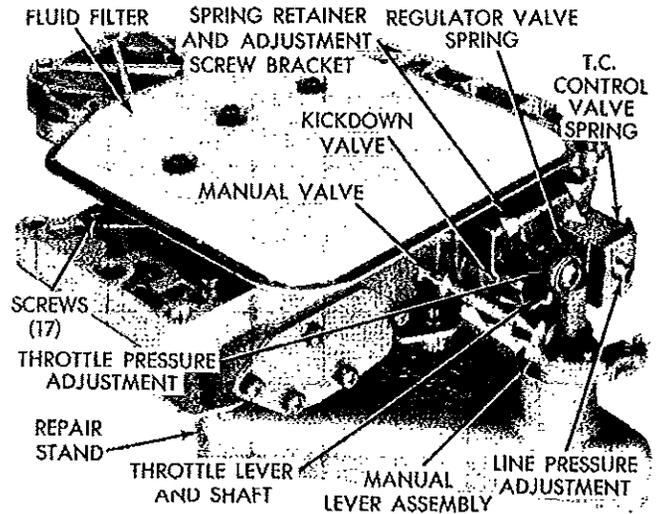


Fig. 14—Installing Valve Body Manual Lever Shaft Oil Seal



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Fig. 15—Valve Body Assembly

(2) Remove top and bottom screws from spring retainer and adjustment screw bracket.

(3) Hold spring retainer firmly against spring force while removing last retaining screw from side of valve body.

(4) Remove spring retainer, with line and throttle pressure adjusting screws (do not disturb setting) and the line pressure and torque converter regulator springs.

(5) Slide torque converter and line pressure valves out of their bores.

(6) Remove transfer plate retaining screws and lift off transfer plate and separator plate assembly.

(7) Remove (4) screws from stiffener and separator plate and separate parts for cleaning (Fig. 16).

(8) Remove rear clutch ball check valve from transfer plate and regulator valve screen from separator plate for cleaning.

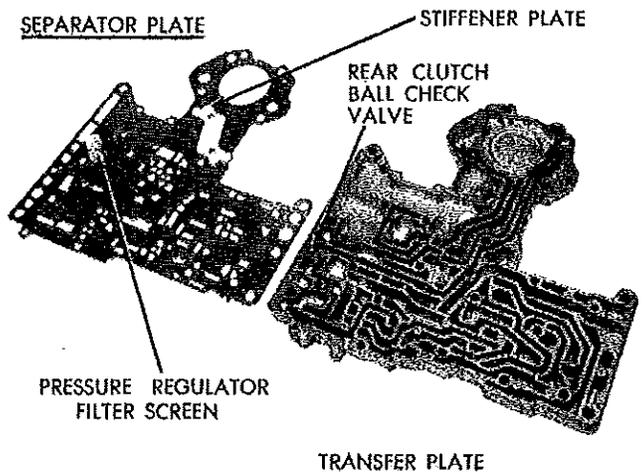


Fig. 16—Transfer and Separator Plate (A-904)

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