



Technical Service Information

THM 4L60 (700-R4) NO 4TH GEAR

COMPLAINT: No 4th gear before and/or after overhaul.

CAUSE: The cup plug missing from the servo feed passage in the valve body shown in figure 1.

The 4th clutch pressure switch is leaking causing a loss of 4th signal oil to the 3-4 relay valve (See Figure 1).

The bleed orifice cup plug is missing from the case in the bottom of the 3-4 accumulator bore (See Figure 2).

The 3-4 relay valve may be installed backwards (See Figure 3).

The 4th apply piston seal in the servo may be missing or torn causing 4th apply oil to leak into the exhaust (See Figure 4).

The 4th oil apply passage in the servo apply pin may be blocked with foreign material (See Figure 4).

The 3-4 shift valve sleeve may be rotated to far against the roll pin (See Figure 5).

The governor may be defective, or the governor bore is worn, or the screen in the governor feed circuit may be restricted (See Figure 6).

CORRECTION: Install a cup plug in the bore as shown in figure 1.

Screw the 4th clutch pressure switch into the end of your blow gun and pressurize the switch. if are comes out of the front of the switch, replace the switch with one that does not leak (See Figure 1).

Replace the missing bleed orifice, part # 8628864 (See Figure 2). Install the 3-4 relay valve correctly as shown in figure 3.

Repair or replace the sealing ring on the 4th apply piston in the servo (See Figure 4). Remove the foreign material that is blocking the 4th apply passage in the servo pin (See Figure 4).

Rotate the 3-4 shift valve sleeve so that it does not rest up against one-end of the roll pin (See Figure 5).

Replace the governor, resleeve the bore if necessary, and remove the filter from the feed circuit if it has been installed (See Figure 6).

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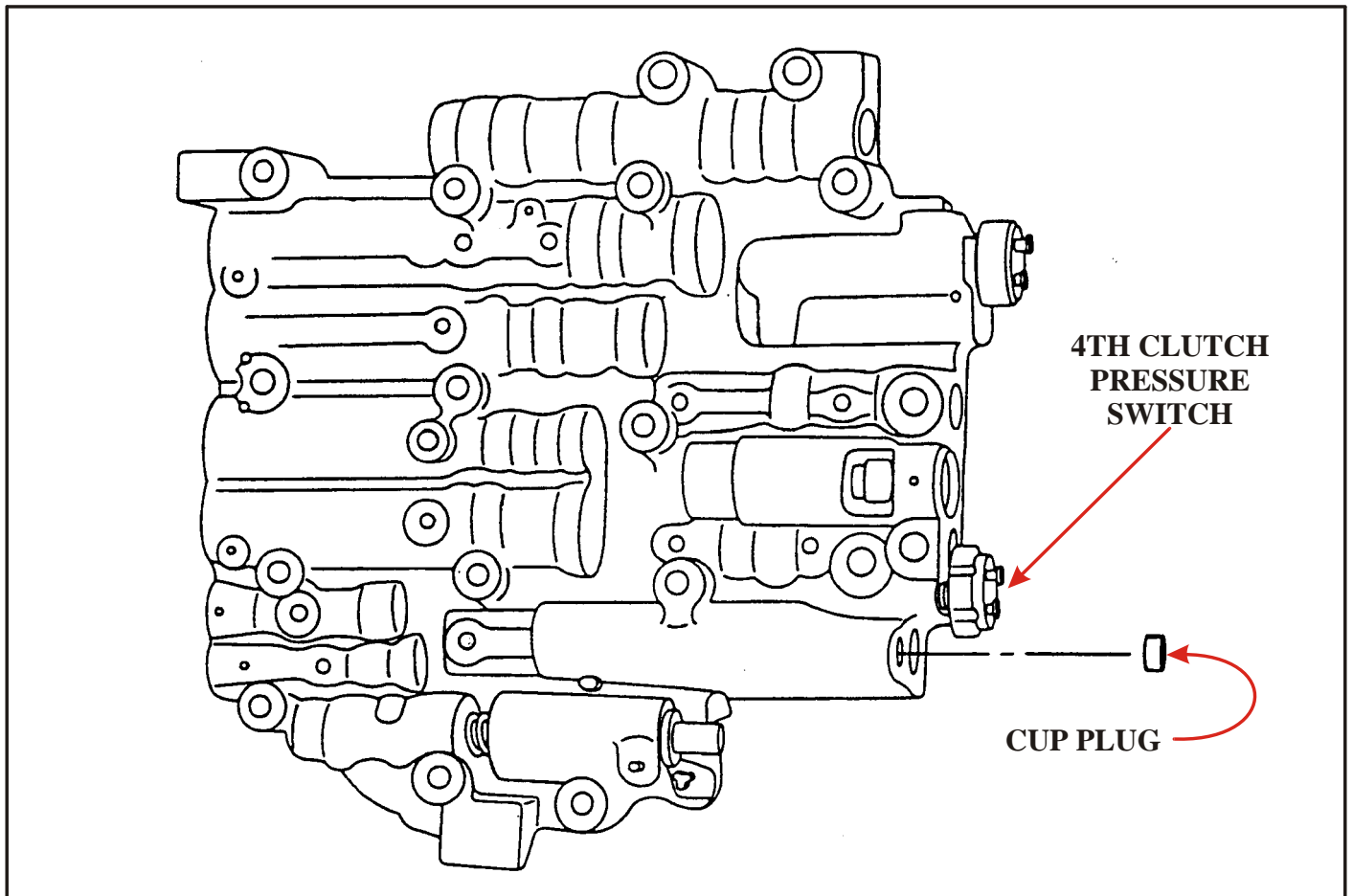


Figure 1

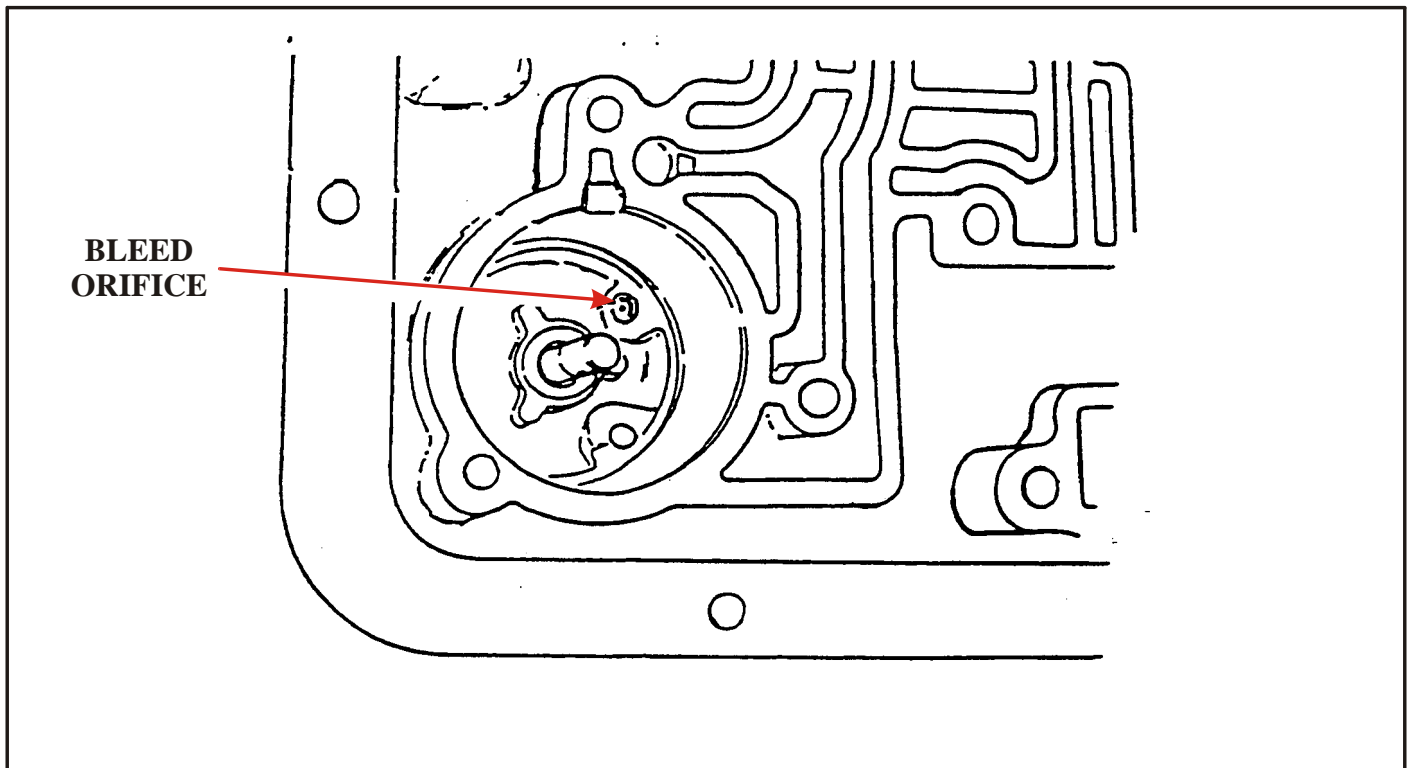


Figure 2

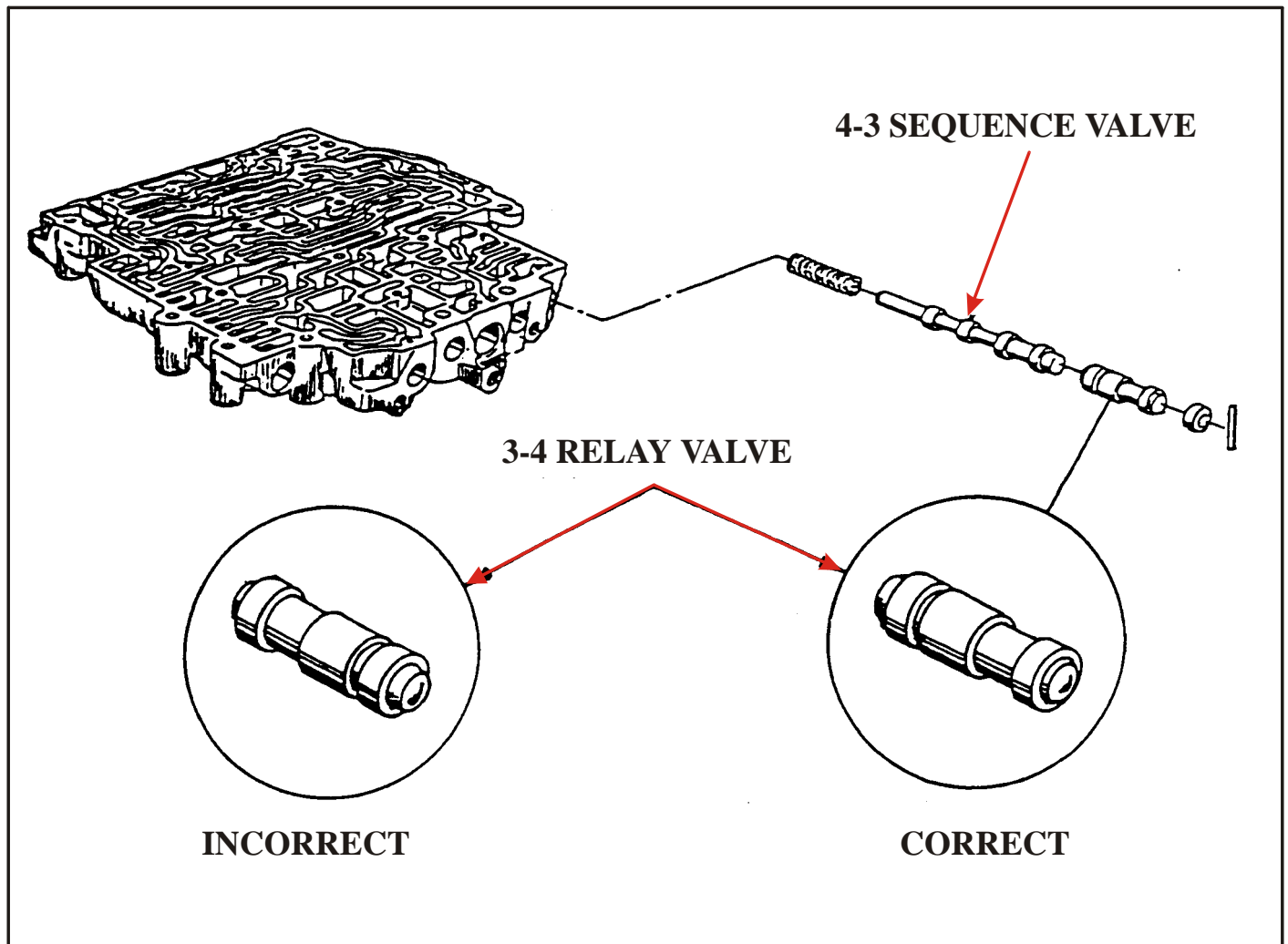


Figure 3

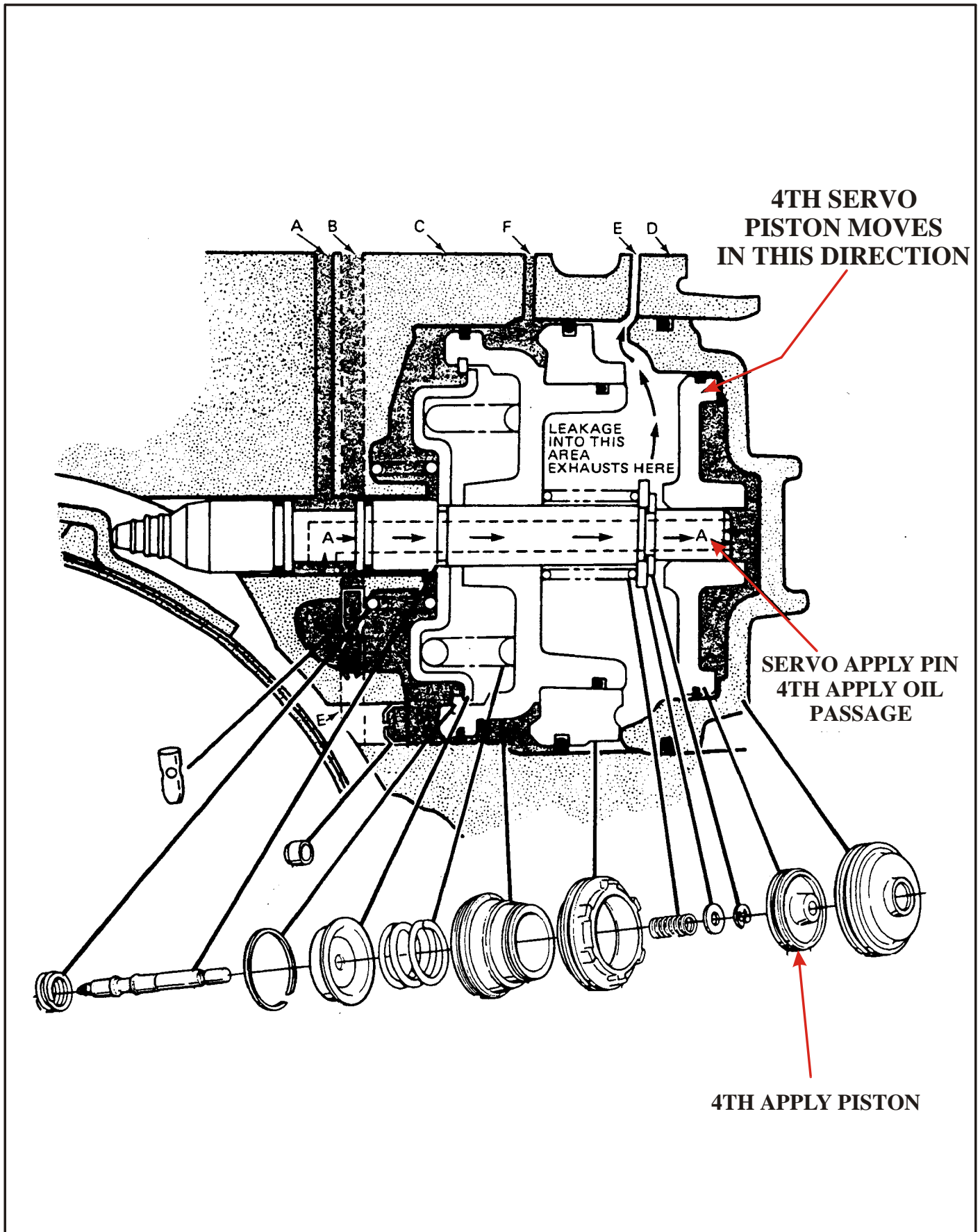


Figure 4

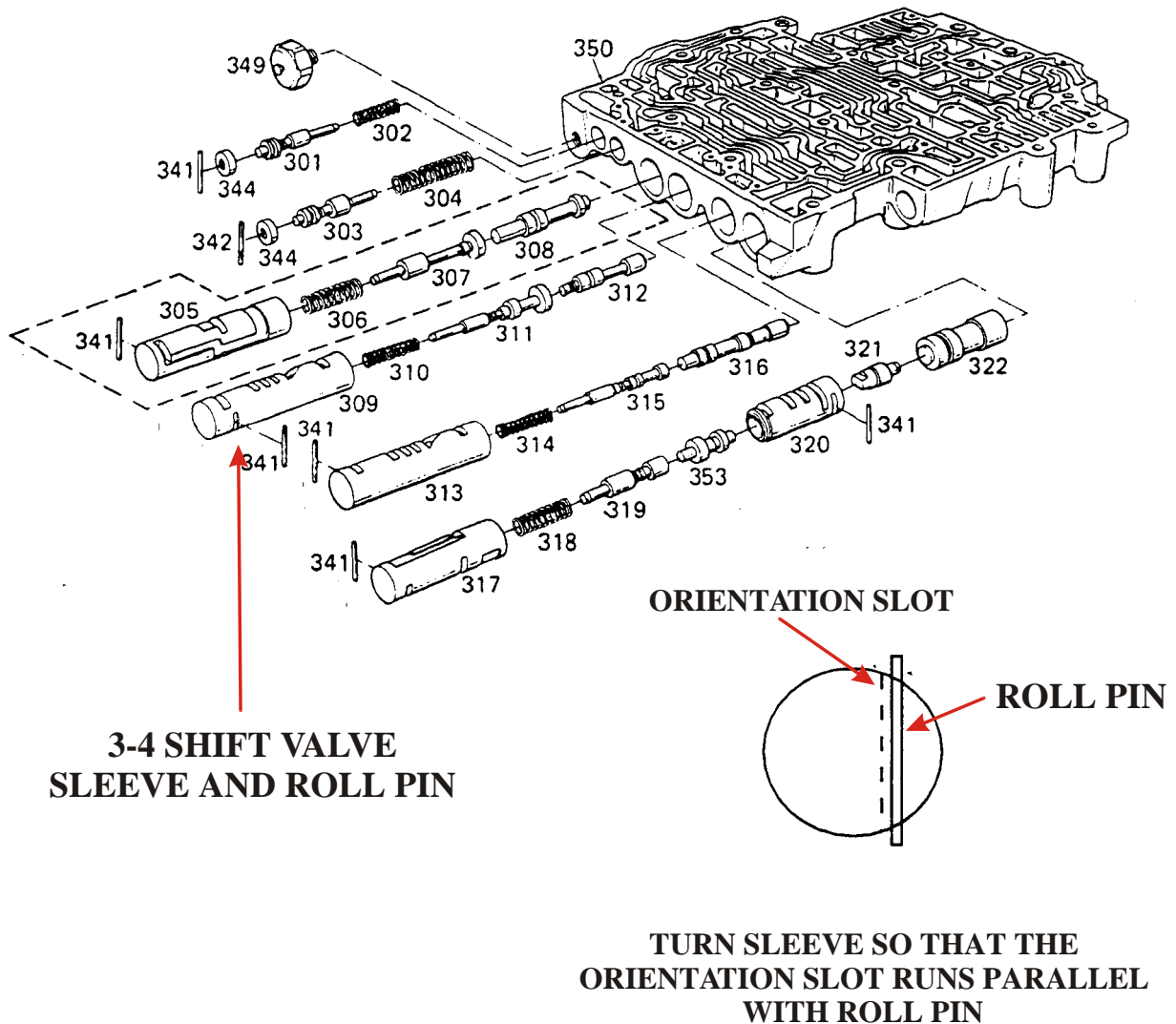


Figure 5

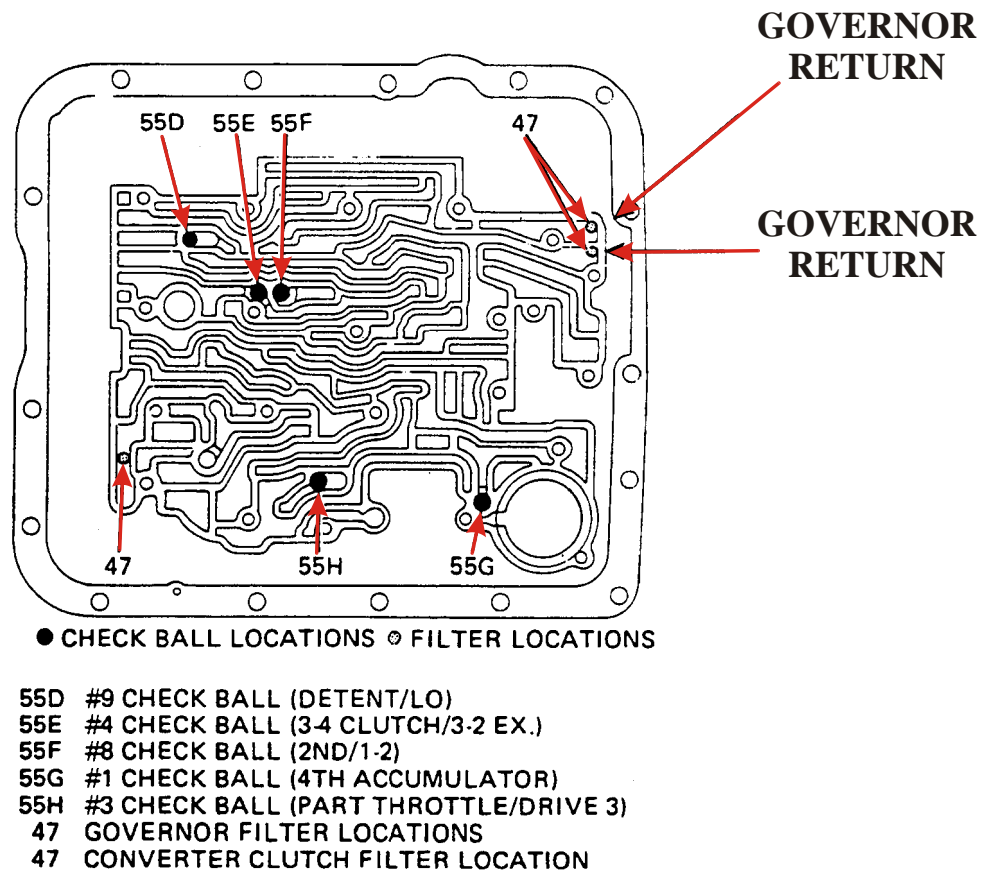


Figure 6