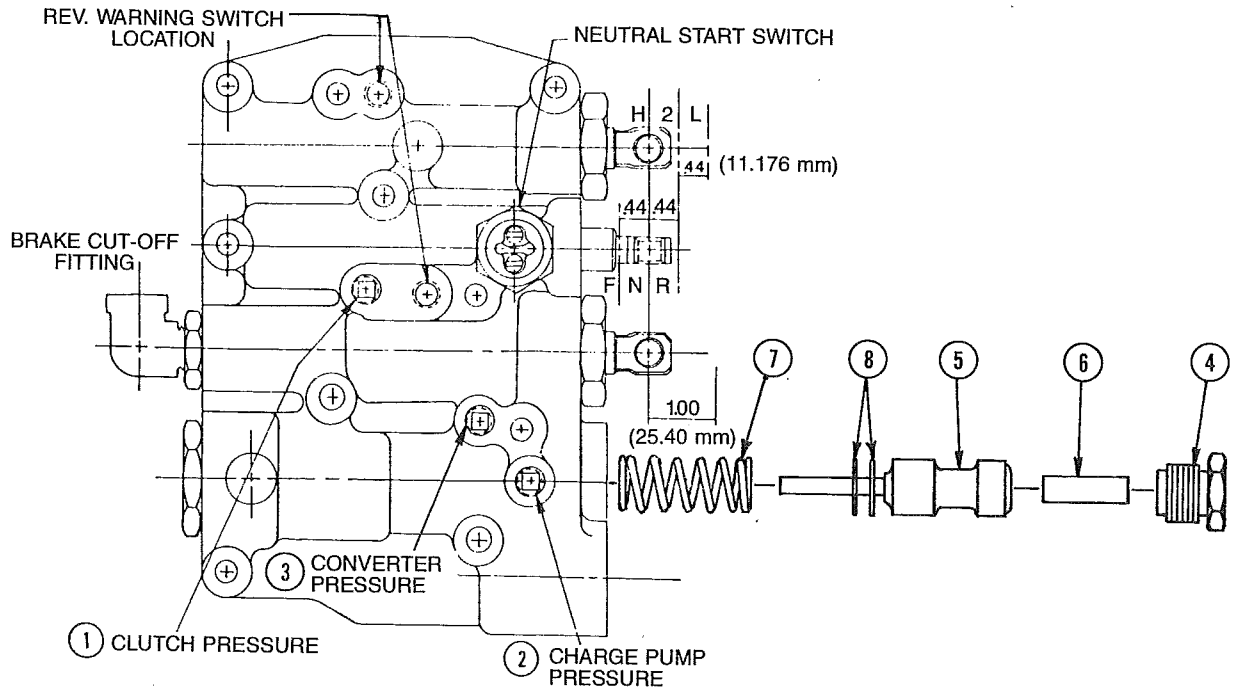


SHIFT-O-MATIC™ CONTROL VALVE, FUNCTION AND PRESSURE CHECK



The pressure checks are to be made with the transmission oil temperature at 170° or (76.7°C) to 185°F. (85°C)

STEP 1 - CLUTCH PRESSURE

- A. Install a 300 PSI (2067 kPa) gauge in Port #1.
- B. Run engine at approximately 2000 RPM.
- C. Engage each speed clutch forward and reverse, the clutch pressure should be within the span of 240 (1654 kPa) to 255 PSI (1757 kPa) for all clutches.
- D. If all clutches have low pressure, the pressure regulator valve should be checked, and adjusted if necessary.
 1. Remove cap (Ref. #4) and remove the pressure regulator valve (Ref. #5) dowel pin (Ref. #6) and spring (Ref. #7).
 2. Check valve to be sure it works freely in the valve body.
 3. The pressure can be raised by adding the #4004245 spacer ring (Ref. #8) as required, on the end of the valve next to the spring.

STEP 2 - CONVERTER CHARGE PRESSURE

- A. Install a 100 PSI (689 kPa) gauge in Port #3.
- B. Run engine at approximately 2000 RPM.
- C. The pressure should be within the span of 50 PSI (345 kPa) warm to 90 PSI (620 kPa) cold.

STEP 3 - FEATHERING VALVE (IF USED)

- A. Install a 300 PSI (2067 kPa) gauge in Port #1.
- B. Run engine at approximately 2000 RPM
- C. Pull stem to full out position (1"), clutch pressure should be between 5 to 7½ PSI (34.5 kPa to 51.7 kPa).

STEP 4 - BRAKE CUTOFF VALVE (IF USED)

- A. Install a 300 PSI (2067 kPa) gauge in Port #1.
- B. Run engine at approximately 2000 RPM
- C. Apply 325-375 PSI (2239 kPa - 2584 kPa) to cut off valve, clutch pressure should be between 5 to 7½ PSI (34.5 kPa to 51.7 kPa).