



Technical Service Information

SATURN

DELAYED OR HARSH REVERSE ENGAGEMENT

COMPLAINT: 1993 Saturn's, equipped with MP6 or MP7 automatic transaxles, may exhibit "Delayed" and/or "Harsh" engagement's into Reverse, after the vehicle is at operating temperature. Also, there may be repeat failures of the external filter seal, causing fluid loss.

CAUSE: The cause may be,

- A broken "Line Pressure Regulator Valve Cushion Spring."
- "Side to Side" Pressure Regulator Valve bore wear.

CORRECTION: Warm vehicle up to operating temperature. Remove temperature sensor and install a 0-300 psi. pressure gage, as shown in Figure 1. Remove 7.5 amp. Line Pressure Actuator fuse shown in Figure 2. Place selector in Reverse at an **Idle** and ensure that line pressure is not less than 175 psi. If the pressure gage indicates low pressure, remove the valve body and dis-assemble the Pressure regulator valve line up as shown in Figure 3. Locate the Line Pressure Regulator Valve Cushion Spring and inspect it for breakage. If the spring is not broken, reinstall the pressure regulator valve and place a flashlight over the valve body, shown in Figure 3, and look for light peering out between the valve and its bore. If light is seen or the Line Pressure Regulator Valve Cushion Spring is broken, replace the upper valve body with Saturn upper valve body kit, part no. 21005813.

SERVICE INFORMATION:

SATURN UPPER VALVE BODY KIT.....21005813
Includes, upper control valve body, both spacer plate gaskets, valve body cover gasket, spacer plate, and actuator retainer exhaust diverter.

LINE PRESSURE CHECK

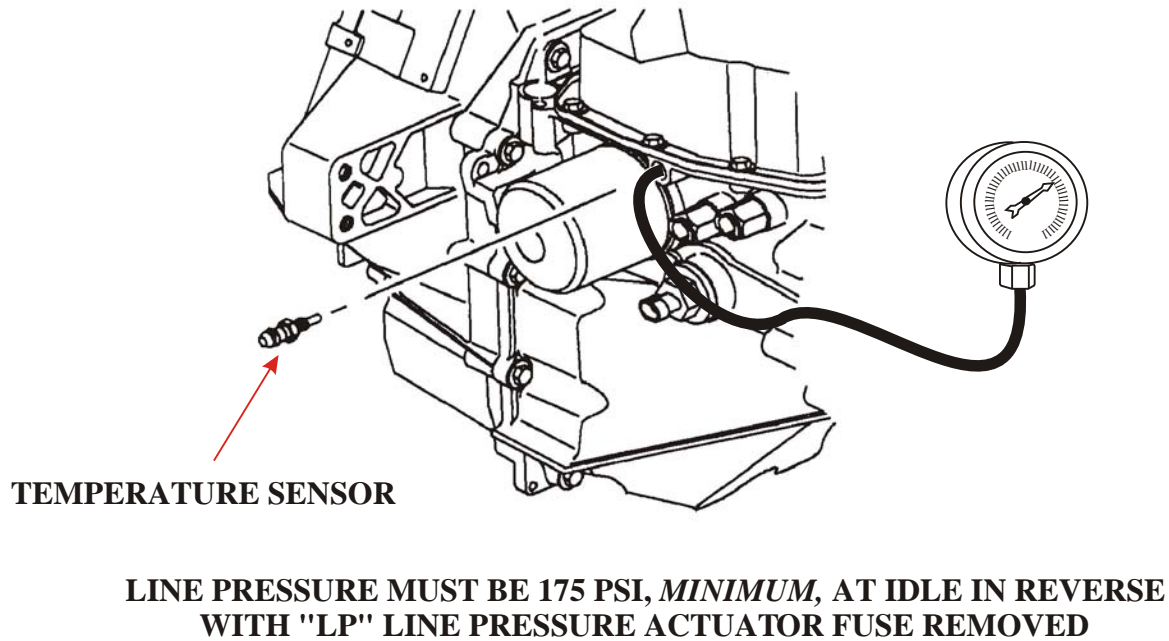


Figure 1

UNDER HOOD JUNCTION BOX

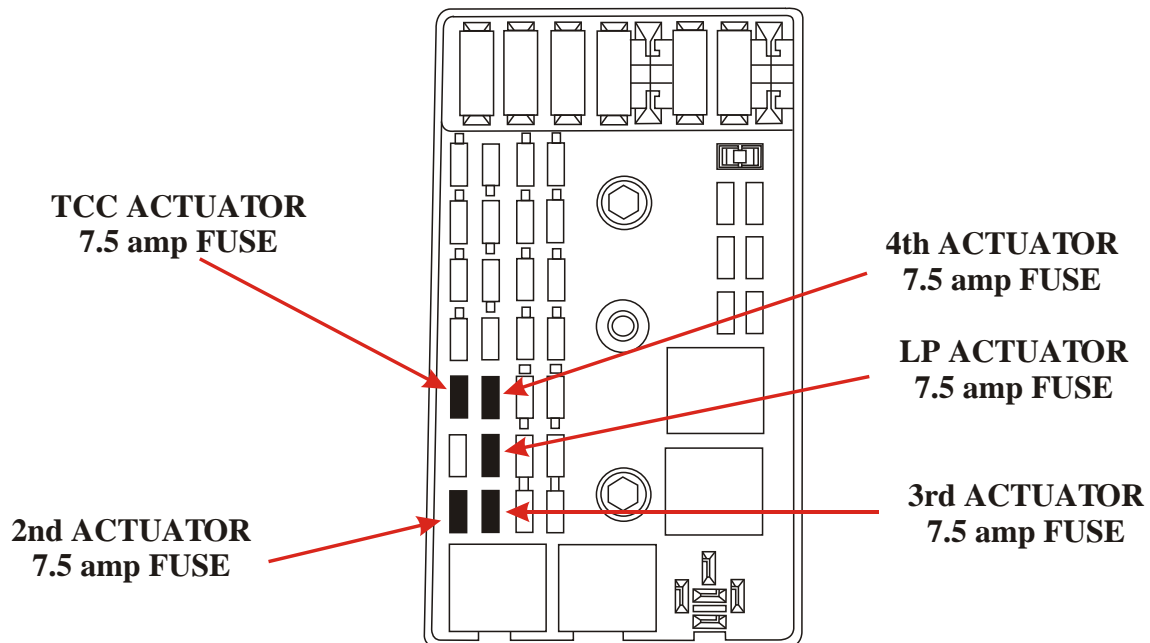


Figure 2

UPPER CONTROL VALVE BODY

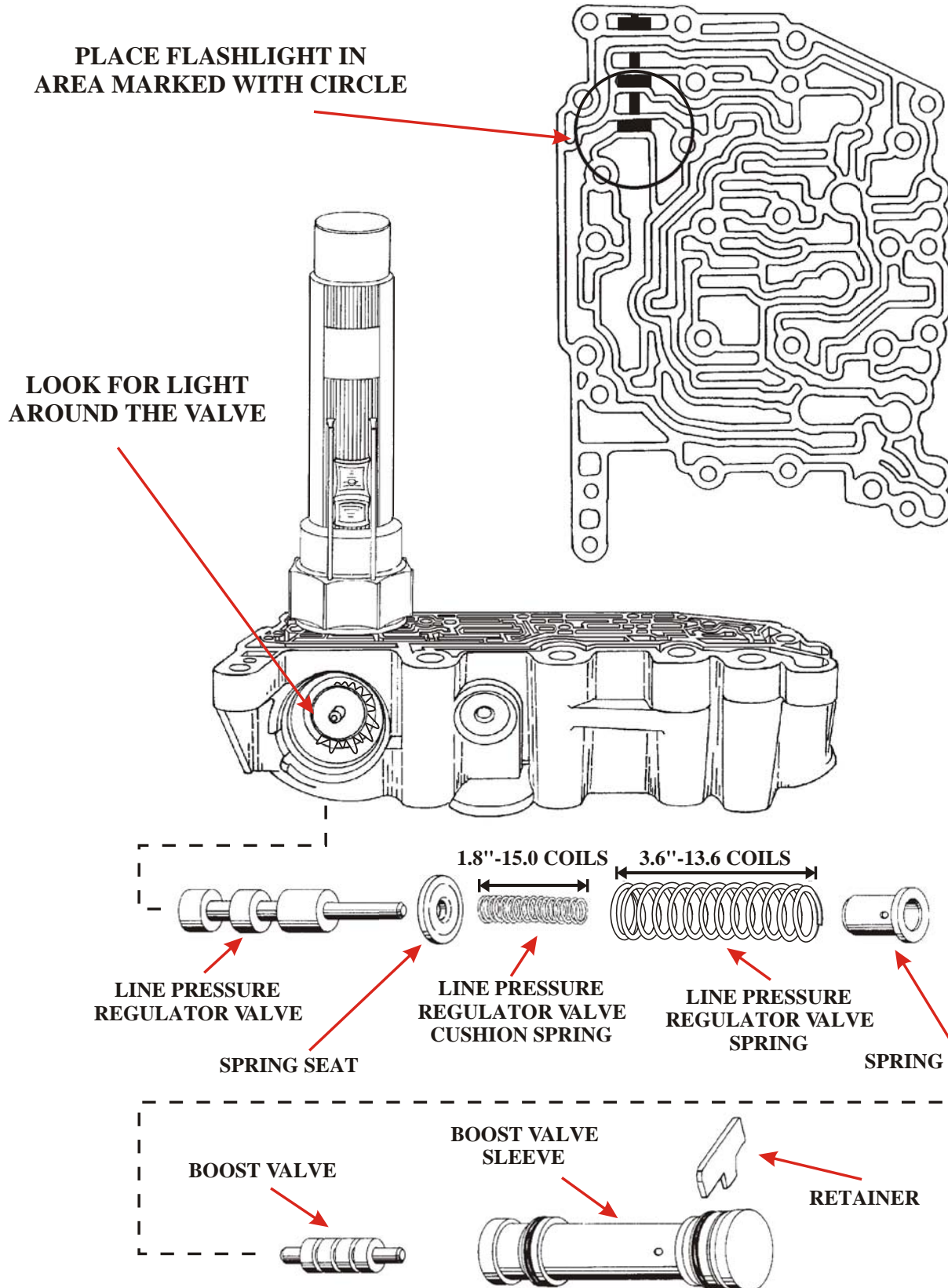


Figure 3