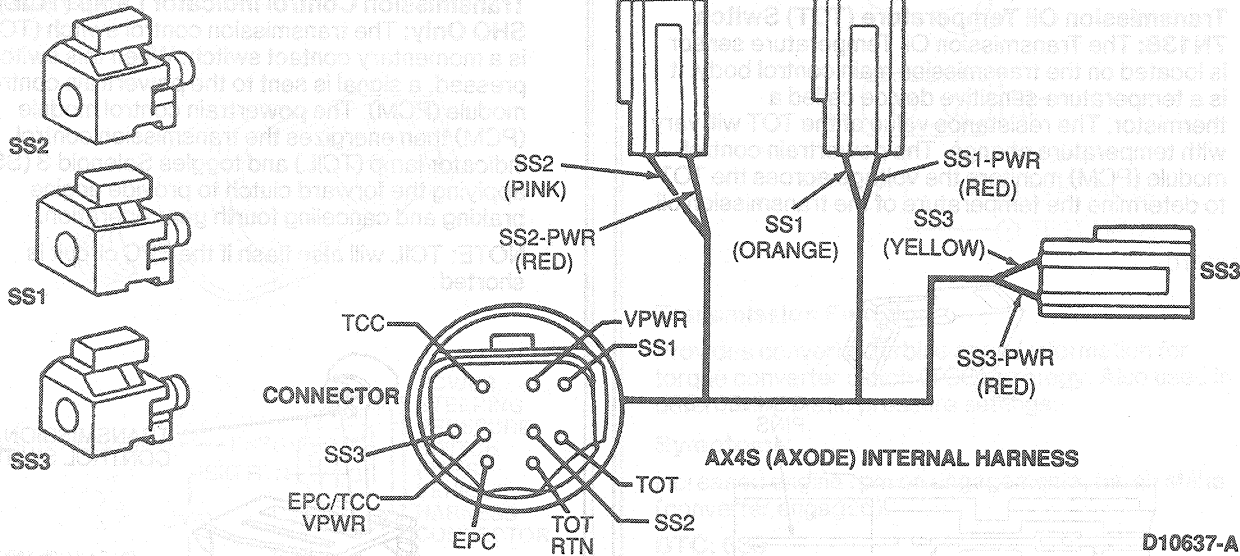


DESCRIPTION AND OPERATION (Continued)

(Continued) DESCRIPTION AND OPERATION

- **Shift Solenoid Assemblies (SS1, SS2, SS3):** Three ON / OFF solenoids are used for electronic shift scheduling. The three solenoids are located in the main control assembly. The solenoids are two-way, normally open style.



**Transmission Function:**

Solenoids SS1, SS2, and SS3 provide gear selection of 1st through 4th by controlling the pressure of the three shift valves and the forward clutch control valve.

**SS1 Symptoms:**

Improper gear selection depending on failure mode and manual lever position.

Failed "ON"—2nd and 4th gear only.

Failed "OFF"—1st and 3rd gear only.

DTC's: 621, 645, 647, 648

NOTE: DTC 621 is an output circuit check, generated only by electrical conditions.

NOTE: DTC's 645 through 648 may also be generated by some non-electrical transmission hardware condition.

**SS2 Symptoms:**

Improper gear selection depending on failure mode and manual lever position.

Failed "ON"—1st and 2nd gear only.

Failed "OFF"—No 1st gear.

DTC's: 622, 645, 646

NOTE: DTC 622 is an output circuit check, generated only by electrical conditions.

NOTE: DTC's 645 and 646 may also be generated by some non-electrical transmission hardware condition.

**SS3 Symptoms:**

Improper gear selection depending on failure mode and manual lever position.

Failed "ON"—Harsh coastdown shifts.

Failed "OFF"—No 4th gear.

DTC's: 641, 648

NOTE: DTC 641 is an output circuit check, generated only by electrical conditions.

NOTE: DTC 648 may also be generated by some non-electrical transmission hardware condition.