

DESCRIPTION AND OPERATION (Continued)

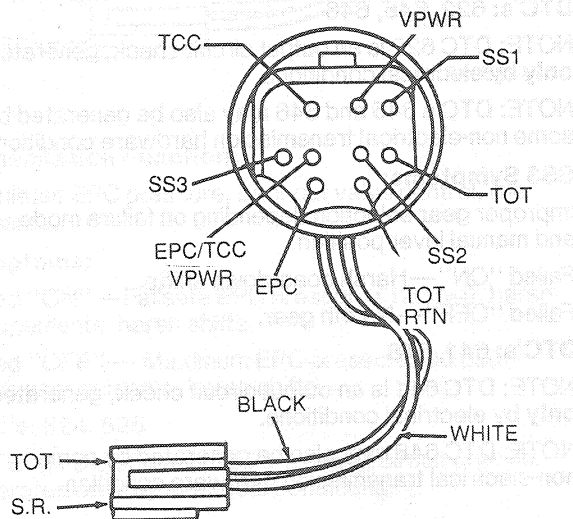
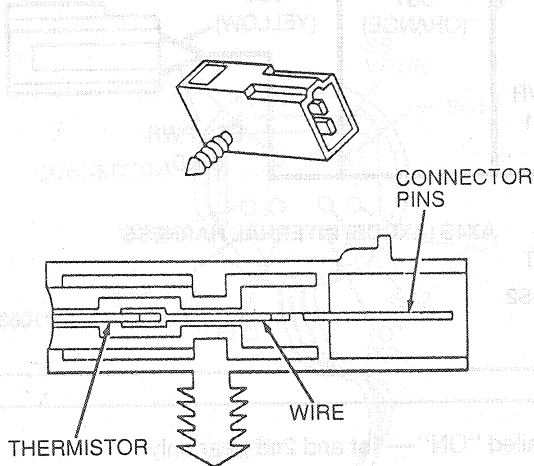
Symptoms:

Harsh engagements and firm shift feel. No 3/4 shift. May downshift to a lower gear.

DTC's: 634, 522

NOTE: The MLP also contains the Park / Neutral Position Switch and backup lamp circuits.

- **Transmission Oil Temperature (TOT) Switch 7N138:** The Transmission Oil Temperature sensor is located on the transmission main control body. It is a temperature-sensitive device called a thermistor. The resistance value of the TOT will vary with temperature change. The powertrain control module (PCM) monitors the voltage across the TOT to determine the temperature of the transmission oil.



D10636-A

Transmission Function:

The powertrain control module (PCM) uses this signal to determine whether a cold start shift schedule is necessary. The cold start shift schedule allows quicker shifts when the transmission fluid temperature is cold. The PCM also inhibits torque converter clutch operation at low transmission fluid temperatures. Corrects EPC pressures for temperature.

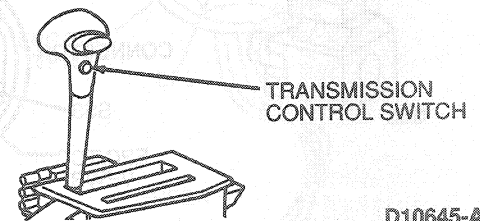
Symptoms:

Torque converter clutch engagement and stabilized shift schedules happen too soon after a cold start. Harsh or soft shifts.

DTC's: 636, 637, 638

- **Transmission Control Switch (TCS) 7G484 Transmission Control Indicator Lamp (TCIL) SHO Only:** The transmission control switch (TCS) is a momentary contact switch. When this switch is pressed, a signal is sent to the powertrain control module (PCM). The powertrain control module (PCM) then energizes the transmission control indicator lamp (TCIL) and toggles Solenoid 3 (SS3), applying the forward clutch to provide engine braking and canceling fourth gear operation.

NOTE: TCIL will also flash if the EPC circuit is shorted.



D10645-A

Sensor:

Transmission control switch (TCS)

Transmission Function:

Disable fourth gear operation.

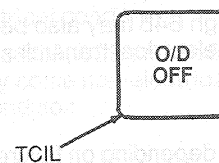
Symptoms:

No overdrive cancel when switch is cycled.

DTC: 632, tested during Key On Engine Off (KOEO) On-Board Diagnostic only.

Actuator:

Transmission control indicator lamp (TCIL)

INSTRUMENT PANEL

D11467-A

Transmission Function:

Indicates overdrive cancel mode activated (lamp on) and EPC circuit shorted (lamp flashing).

Symptoms:

Failed "ON"—Overdrive cancel mode always indicated, no flashing for EPC circuit shorted.

Failed "OFF"—Overdrive cancel mode never indicated, no flashing for EPC circuit shorted.

DTC: 631