DTC	P2716/77	PRESSURE CONTROL SOLENOID ”D” ELECTRICAL (SHIFT SOLENOID SLT)

CIRCUIT DESCRIPTION

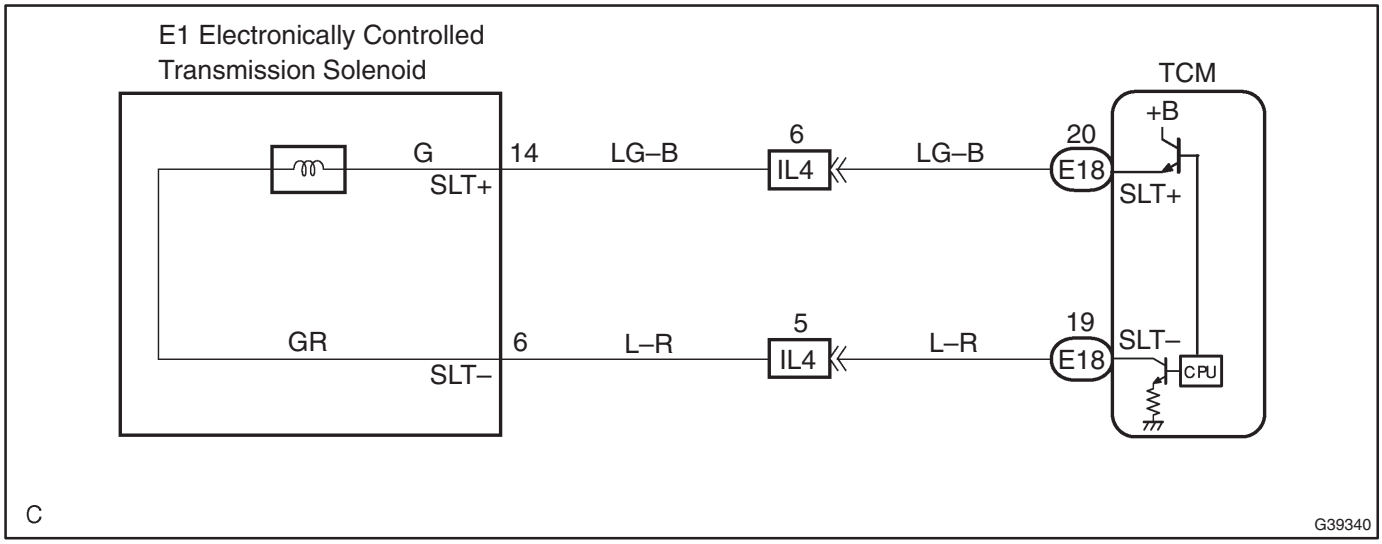
See page 05–1245.

DTC No.	DTC Detection Condition	Trouble Area
P2716/77	Open or short is detected in shift solenoid valve SLT circuit for 1 second or more while driving (1–trip detection logic).	• Open or short in shift solenoid valve SLT circuit • Shift solenoid valve SLT • ECM

MONITOR DESCRIPTION

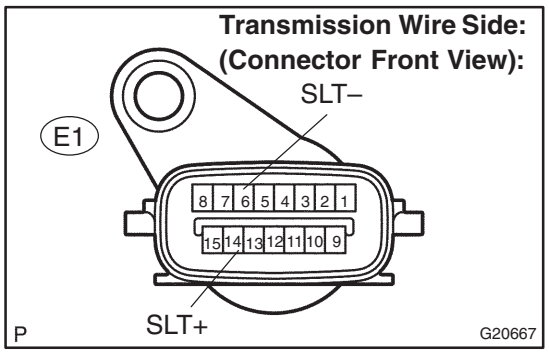
When an open or short in the linear solenoid valve (SLT) circuit is detected, the ECM interprets this as a fault. The ECM will turn on the MIL and store the DTC.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT TRANSMISSION WIRE(SLT)



(a) Disconnect the transmission wire connector from the transmission.

(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition 20°C (68°F)
14 (SLT+) – 6 (SLT–)	5.0 to 5.6 Ω

(c) Measure the resistance according to the value(s) in the table below.

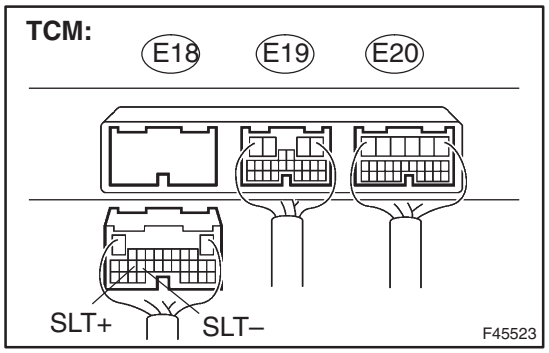
Standard (Check for short):

Tester Connection	Specified Condition
14 (SLT+) – Body ground	10 kΩ or higher
6 (SLT–) – Body ground	↑

NG → **Go to step 3**

OK

2 CHECK HARNESS AND CONNECTOR(TRANSMISSION WIRE – ECM)



(a) Connect the transmission wire connector to the transmission.

(b) Disconnect the ECM connector.

(c) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition 20°C (68°F)
E18 – 20 (SLT+) – E18 – 19 (SLT–)	5.0 to 5.6 Ω

(d) Measure the resistance according to the value(s) in the table below.

Standard (Check for short):

Tester Connection	Specified Condition
E18 – 20 (SLT+) – Body ground	10 kΩ or higher
E18 – 19 (SLT–) – Body ground	↑

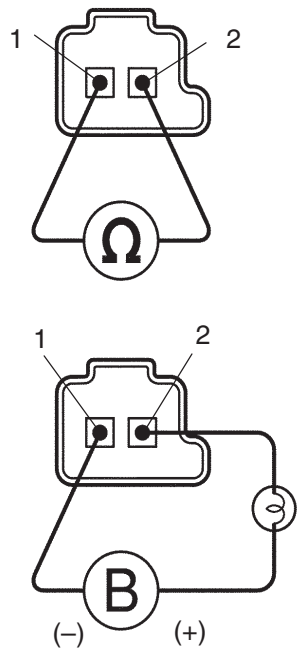
NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (SEE PAGE 01–36)**

OK

REPLACE TCM

3 INSPECT SHIFT SOLENOID VALVE(SLT)

Shift Solenoid Valve SLT:



(a) Remove the shift solenoid valve (SLT).

(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition 20°C (68°F)
1 – 2	5.0 to 5.6 Ω

(c) Connect the positive (+) lead with a 21 W bulb to terminal 2 and the negative (–) lead to terminal 1 of the solenoid valve connector, then check the movement of the valve.

OK:

The solenoid makes an operating sound.

NG → **REPLACE SHIFT SOLENOID VALVE(SLT) (SEE PAGE 40–71)**

OK →

REPAIR OR REPLACE TRANSMISSION WIRE (SEE PAGE 40–68)