DTC	P0798	PRESSURE CONTROL SOLENOID "C" ELECTRICAL (SHIFT SOLENOID VALVE SL3)

CIRCUIT DESCRIPTION

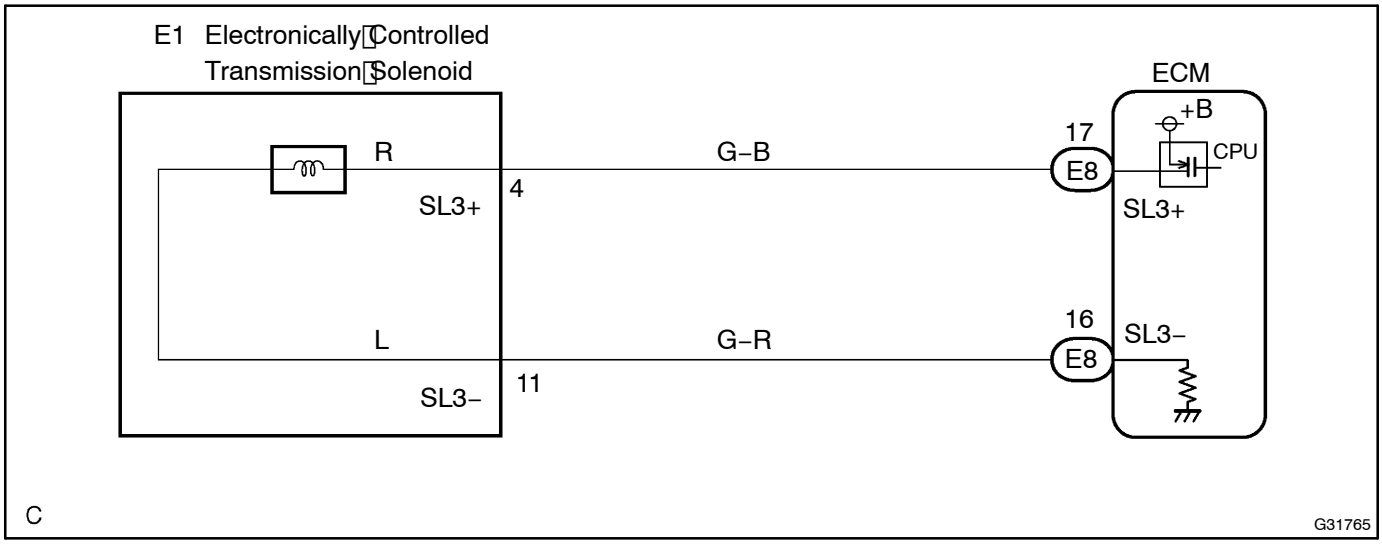
Shifting from 1st to 5th is performed in combination with "ON" and "OFF" operation of the shift solenoid valves SL1, SL2, SL3, S4 and SR which is controlled by the ECM. If an open or short circuit occurs in either of the shift solenoid valves, the ECM controls the remaining normal shift solenoid valve to allow the vehicle to be operated smoothly (Fail safe function).

DTC No.	DTC Detection Condition	Trouble Area
P0798	ECM checks for an open or short circuit in shift solenoid valves SL3 (1–trip detection logic) • Output signal duty equals to 100%	• Open or short in shift solenoid valve SL3 circuit • Shift solenoid valve SL3 • ECM

MONITOR DESCRIPTION

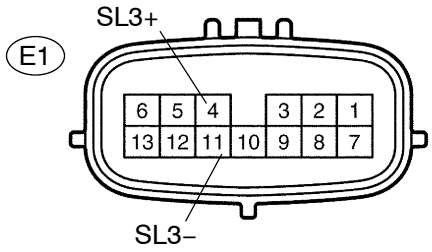
The ECM commands gear shifts by turning the shift solenoid valves "ON/OFF". When there is an open or short circuit in any shift solenoid valve circuit, the ECM detects the problem and illuminates the MIL and stores the DTC. And the ECM performs the fail–safe function and turns the other shift solenoid valves in good condition "ON/OFF" (In case of an open or short circuit, the ECM stops sending current to the circuit.) (see page 05–372).

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT TRANSMISSION WIRE (SL3)



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

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

Standard:

Tester Connection	Specified Condition 20°C (68°F)
4 (SL3+) – 11 (SL3–)	5.0 to 5.6 Ω

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

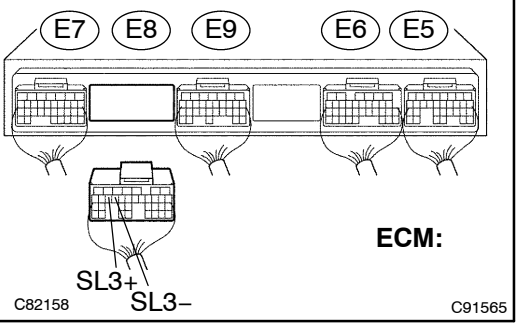
Standard (Check for short):

Tester Connection	Specified Condition
4 (SL3+) – Body ground	10 kΩ or higher
11 (SL3–) – Body ground	↑

NG → **Go to step 3**

OK

2 CHECK HARNESS AND CONNECTOR (TRANSMISSION WIRE – ECM)



(a) Connect the transmission connector to the transaxle.

(b) Disconnect the connector from the ECM.

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

Standard:

Tester Connection	Specified Condition 20°C (68°F)
E8 – 17 (SL3+) – E8 – 16 (SL3–)	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
E8 – 17 (SL3+) – Body ground	10 kΩ or higher
E8 – 16 (SL3–) – Body ground	↑

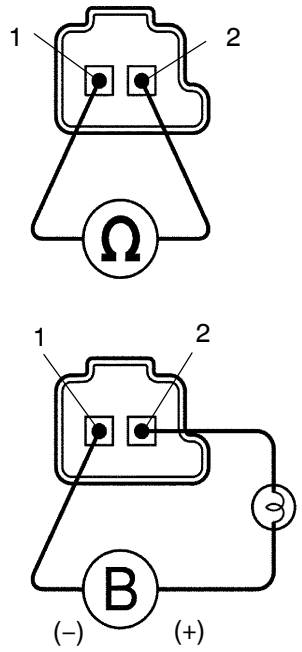
NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (SEE PAGE 01–33)**

OK

REPLACE ECM (SEE PAGE 10–13)

3	INSPECT SHIFT SOLENOID VALVE (SL3)

Shift Solenoid Valve SL3:



(a) Remove the shift solenoid valve SL3.

(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 noise.

NG → **REPLACE SHIFT SOLENOID VALVE (SL3)**

OK

REPAIR OR REPLACE TRANSMISSION WIRE (SEE PAGE 40–21)