

<b>DTC</b>	<b>P0798</b>	<b>PRESSURE CONTROL SOLENOID "C" ELECTRICAL (SHIFT SOLENOID VALVE SL3)</b>
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## 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 are 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 valves to allow the vehicle to be operated smoothly (Fail safe function).

DTC No.	DTC Detection Condition	Trouble Area
P0798	Duty cycle to shift solenoid valve SL3 is 100% (1-trip detection logic)	<ul style="list-style-type: none"> <li>• Open or short in shift solenoid valve SL3 circuit</li> <li>• Shift solenoid valve SL3</li> <li>• ECM</li> </ul>

## 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 normal shift solenoid valves "ON/OFF" (In case of an open or short circuit, the ECM stops sending current to the circuit.)

(see page [05-1276](#)).

## MONITOR STRATEGY

Related DTCs	P0798: Shift solenoid valve SL3/Range check
Required sensors/Components	Shift solenoid valve SL3
Frequency of operation	Continuous
Duration	1 sec.
MIL operation	Immediate
Sequence of operation	None

## TYPICAL ENABLING CONDITIONS

The monitor will run whenever this DTC is not present.	See page <a href="#">05-1253</a>
Battery voltage	10 V or more
Ignition switch	ON
Starter	OFF

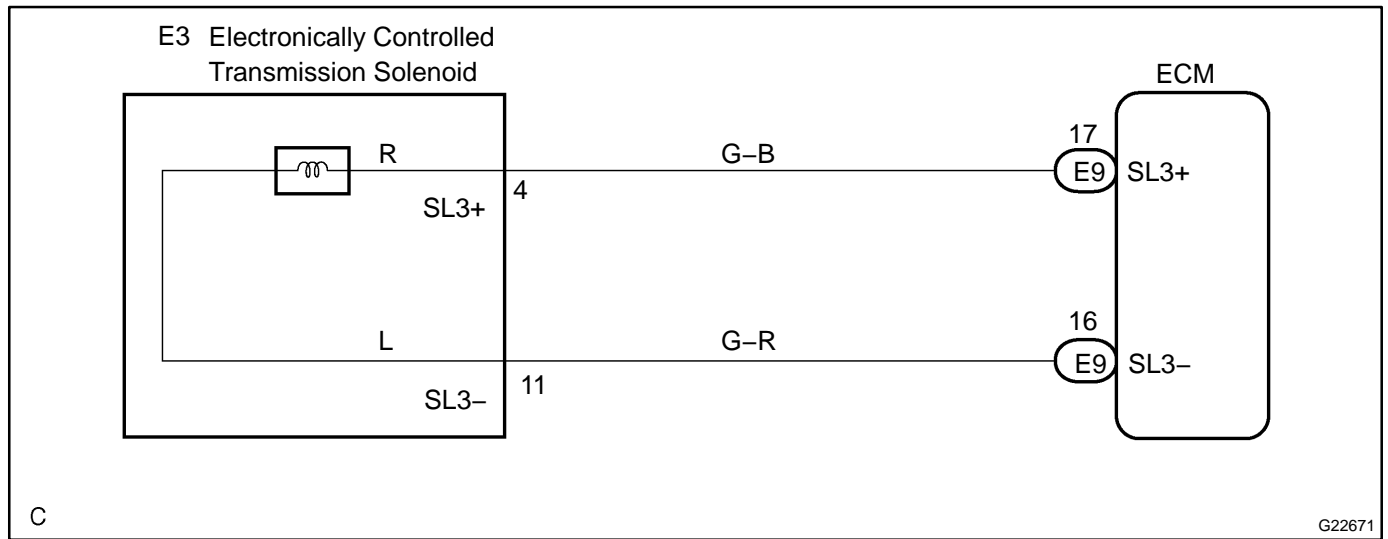
## TYPICAL MALFUNCTION THRESHOLDS

Output signal duty	100%
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## COMPONENT OPERATING RANGE

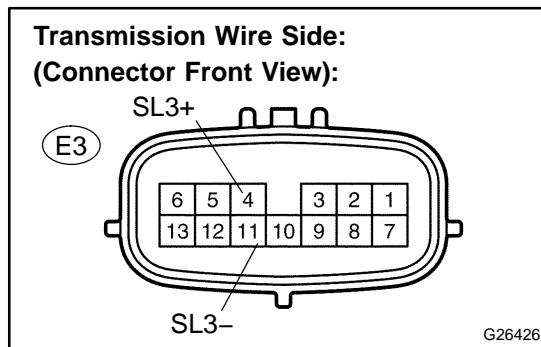
Output signal duty	Less than 100%
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## WIRING DIAGRAM



## INSPECTION PROCEDURE

### 1 INSPECT TRANSMISSION WIRE(SL3)



- Disconnect the transmission wire connector from the transaxle.
- 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

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

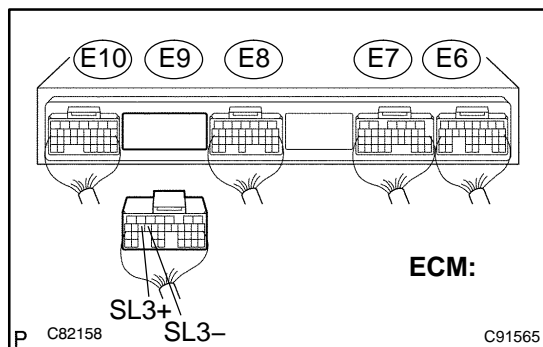
#### Standard (Check for short):

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)**

- Connect the transmission connector to the transaxle.
- Disconnect the connector from the ECM.
- Measure the resistance according to the value(s) in the table below.

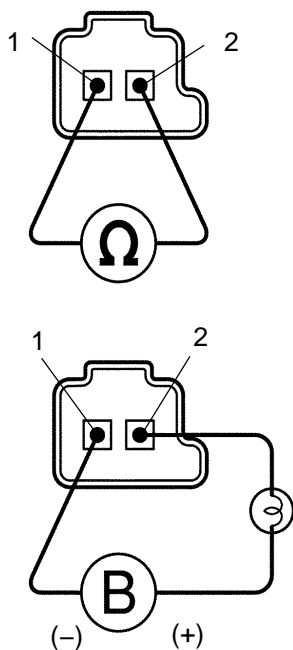
**Standard:**

Tester Connection	Specified Condition 20°C (68°F)
E9 – 17 (SL3+) – E9 – 16 (SL3-)	5.0 to 5.6 Ω

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

**Standard (Check for short):**

Tester Connection	Specified Condition
E9 – 17 (SL3+) – Body ground	10 kΩ or higher
E9 – 16 (SL3-) – Body ground	↑

**NG****REPAIR OR REPLACE HARNESS OR  
CONNECTOR (SEE PAGE 01-32)****OK****REPLACE ECM (SEE PAGE 10-25)****3 INSPECT SHIFT SOLENOID VALVE(SL3)****Shift Solenoid Valve SL3:**

- Remove the shift solenoid valve SL3.
- 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

- 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.

**Standard:****The solenoid makes an operating noise.****NG****REPLACE SHIFT SOLENOID VALVE(SL3)****OK****REPAIR OR REPLACE TRANSMISSION WIRE (SEE PAGE 40-31)**