

<b>DTC</b>	<b>P0798</b>	<b>Pressure Control Solenoid "C" Electrical (Shift Solenoid Valve SL3)</b>
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## DESCRIPTION

Shifting from 1st to 5th is performed in combination with the ON and OFF operation of the shift solenoid valves SL1, SL2, SL3, S4 or SR which are controlled by the ECM. If an open or short circuit occurs in any of the shift solenoid valves, the ECM controls the remaining normal shift solenoid valves to allow the vehicle to be operated safely (see page [AX-35](#)).

DTC No.	DTC Detection Condition	Trouble Area
P0798	The ECM checks for an open or short in the shift solenoid valve SL3 circuit while driving and shifting gears (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 [AX-35](#)).

## 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.	None
Battery voltage	10 V or more
Ignition switch	ON
Starter	OFF

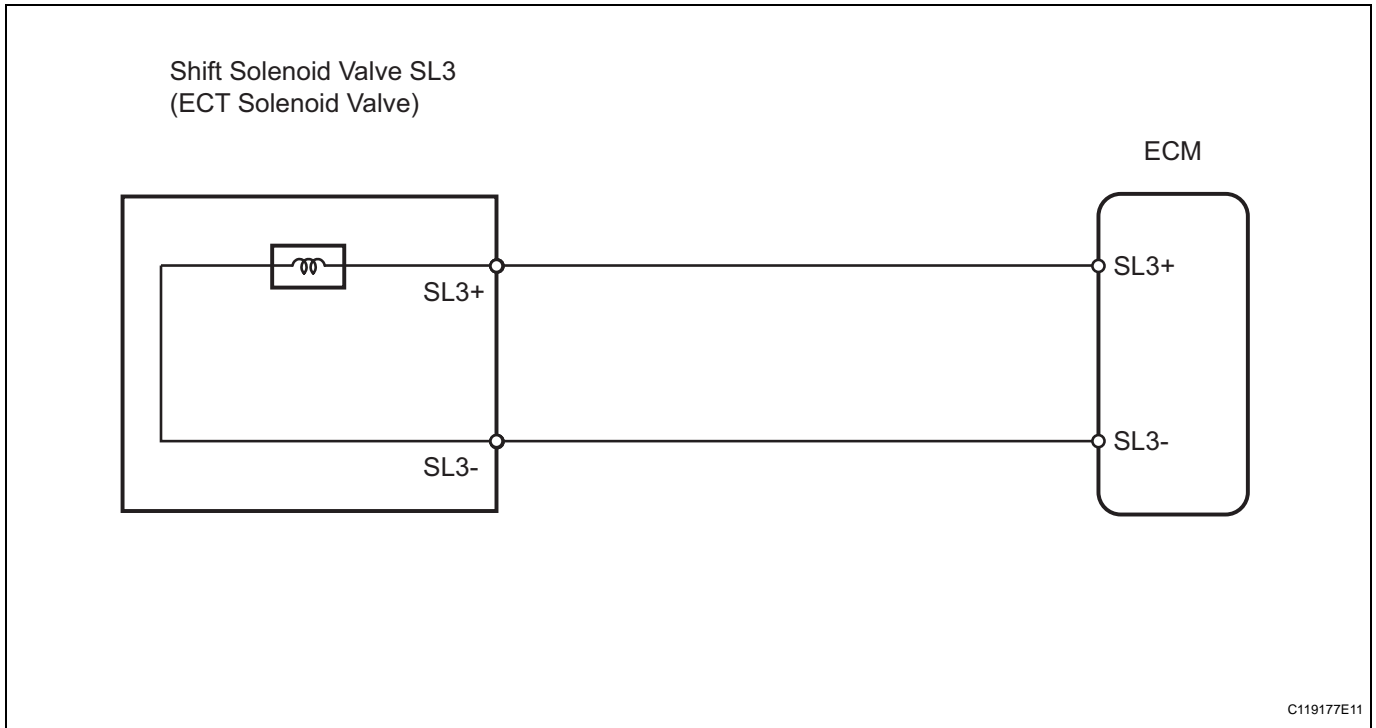
## TYPICAL MALFUNCTION THRESHOLDS

Output signal duty	100%
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## COMPONENT OPERATING RANGE

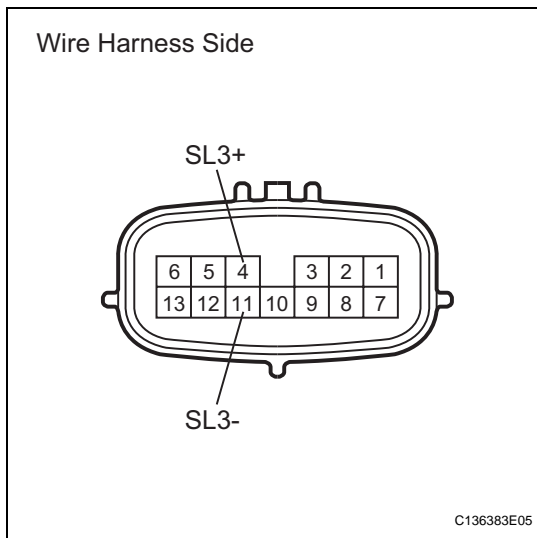
Output signal duty	Less than 100%
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**WIRING DIAGRAM**



**INSPECTION PROCEDURE**

**1 INSPECT TRANSMISSION WIRE (SHIFT SOLENOID VALVE SL3)**



- (a) Disconnect the B32 wire connector.
- (b) Measure the resistance of the transmission wire.

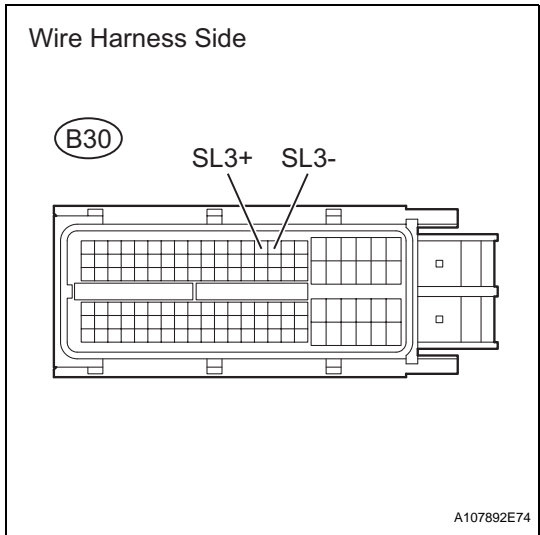
**Standard resistance**

Tester Connection	Condition	Specified Condition
4 (SL3+) - 11 (SL3-)	20°C (68°F)	5.0 to 5.6 Ω
4 (SL3+) - Body ground	20°C (68°F)	1 MΩ or higher
11 (SL3-) - Body ground	20°C (68°F)	1 MΩ or higher

**NG** → **Go to step 3**

**OK**

**2 CHECK WIRE HARNESS (TRANSMISSION WIRE - ECM)**



- (a) Disconnect the B30 ECM connector.
- (b) Measure the resistance of the wire harness side connector.

**Standard resistance**

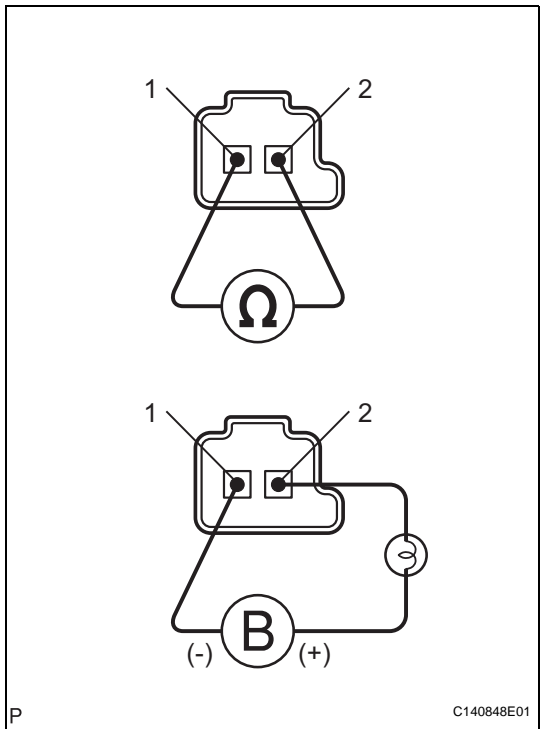
Tester Connection	Condition	Specified Condition
B30-14 (SL3+) - B30-15 (SL3-)	20°C (68°F)	5.0 to 5.6 Ω
B30-14 (SL3+) - Body ground	20°C (68°F)	1 MΩ or higher
B30-15 (SL3-) - Body ground	20°C (68°F)	1 MΩ or higher

**NG** → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

**OK**

**REPLACE ECM**

**3 INSPECT SHIFT SOLENOID VALVE SL3**



- (a) Remove the shift solenoid valve SL3.
  - (b) Measure the resistance of the solenoid valve.
- Standard resistance:**  
**5.0 to 5.6 Ω at 20°C (68°F)**
- (c) Connect the battery's positive (+) lead with a 21 W bulb to terminal 2 and the negative (-) lead to terminal 1 of the solenoid valve connector. Then check that the valve moves and makes an operating noise.

**OK:**  
 Valve moves and makes operating noise.

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

**OK**

**REPAIR OR REPLACE TRANSMISSION WIRE**