

<b>DTC</b>	<b>P2716</b>	<b>Pressure Control Solenoid "D" Electrical (Shift Solenoid Valve SLT)</b>
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## DESCRIPTION

Refer to DTC P2714 (See page [AT-119](#)).

DTC No.	DTC Detection Conditions	Trouble Areas
P2716	Open or short is detected in shift solenoid valve SLT circuit for 1 second or more while driving (1-trip detection logic)	<ul style="list-style-type: none"> <li>• Open or short in shift solenoid valve SLT circuit</li> <li>• Shift solenoid valve SLT</li> <li>• ECM</li> </ul>

## MONITOR DESCRIPTION

When an open or short is detected in the linear solenoid valve (SLT) circuit, the ECM interprets this as a fault.

The ECM turns on the MIL and stores the DTC.

## MONITOR STRATEGY

Related DTCs	P2716: Shift solenoid valve SLT/Range check
Required sensors/Components	Shift solenoid valve SLT
Frequency of operation	Continuous
Duration	Condition (A) and (B): 1 second
MIL operation	Immediate
Sequence of operation	None

## TYPICAL ENABLING CONDITIONS

The following conditions are common to Condition (A) and (B).

The monitor will run whenever the following DTCs are not present.	None
Ignition switch	ON
Starter	OFF

### Condition (A)

Solenoid current cut status	Not cut
Battery voltage	11 V or more

### Condition (B)

Battery voltage	8 V or more
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## TYPICAL MALFUNCTION THRESHOLDS

Either of the following conditions is met: Condition (A) or (B)

### Condition (A)

Solenoid status (SLT) from Hybrid IC	Fail
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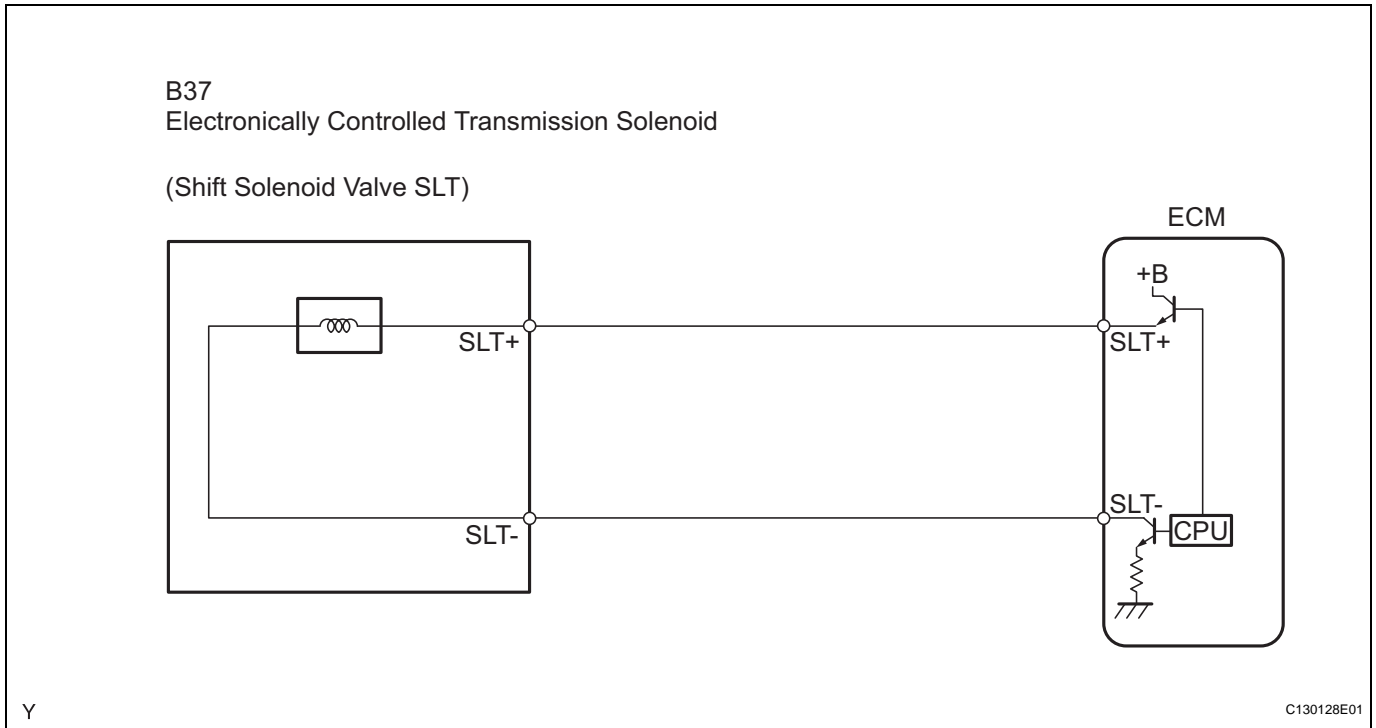
### Condition (B)

Hybrid IC status	Fail
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## COMPONENT OPERATING RANGE

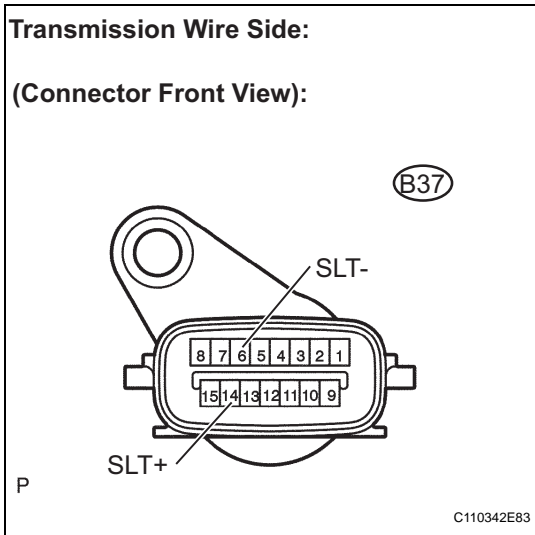
Shift solenoid valve SLT	Resistance: 5.0 to 5.6 $\Omega$ at 20°C (68°F)
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**WIRING DIAGRAM**



**INSPECTION PROCEDURE**

**1 INSPECT TRANSMISSION WIRE (SLT)**



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

(b) Measure the resistance.

**Standard resistance**

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

(c) Measure the resistance.

**Standard resistance (Check for short)**

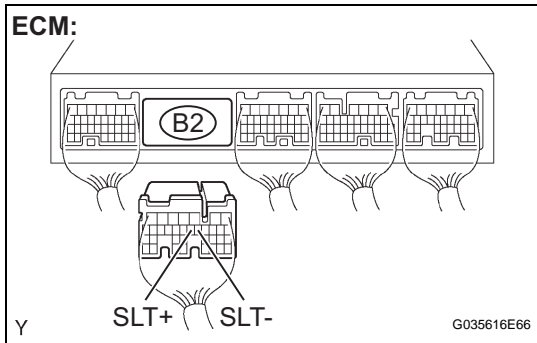
Tester Connection	Specified Condition
14 (SLT+) - Body ground	10 kΩ or higher
6 (SLT-) - Body ground	10 kΩ or higher

**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.

**Standard resistance**

Tester Connection	Specified Condition
B2-13 (SLT+) - B2-12 (SLT-)	5.0 to 5.6 Ω at 20°C (68°F)

- (d) Measure the resistance.

**Standard resistance (Check for short)**

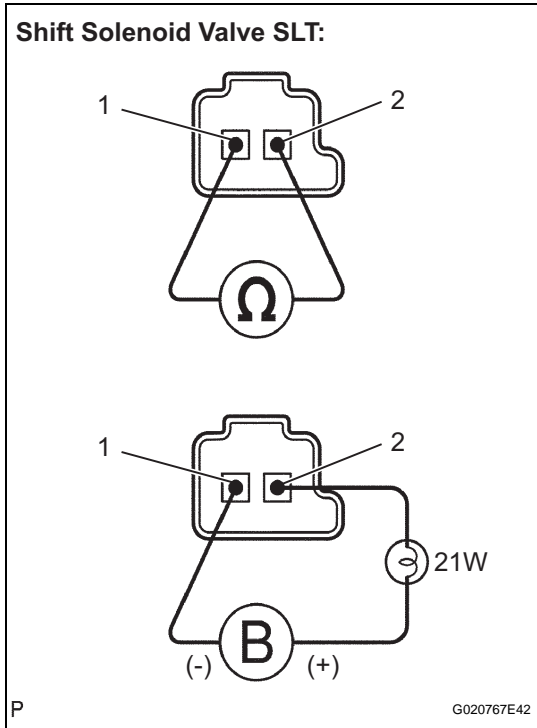
Tester Connection	Specified Condition
B2-13 (SLT+) - Body ground	10 kΩ or higher
B2-12 (SLT-) - Body ground	10 kΩ or higher

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

**OK**

**REPLACE ECM**

**3 INSPECT SHIFT SOLENOID VALVE SLT**



- (a) Remove the shift solenoid valve SLT.
- (b) Measure the resistance.

**Standard resistance**

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

- (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 operating sounds.**

**NG** → **REPLACE SHIFT SOLENOID VALVE SLT**

**AT**

OK

REPAIR OR REPLACE TRANSMISSION WIRE