

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

See page [DI-1073](#)

DTC No.	DTC Detection Condition	Trouble Area
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 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.

## MONITOR STRATEGY

Related DTCs	P2716	Shift solenoid valve SLT/Range check
Required sensors/Components	Shift solenoid valve SLT	
Frequency of operation	Continuous	
Duration	1 sec.	
MIL operation	Immediate	
Sequence of operation	None	

## TYPICAL ENABLING CONDITIONS

Item	Specification	
	Minimum	Maximum
The monitor will run whenever this DTC is not present.	See page <a href="#">DI-963</a>	
Case 1:		
Battery voltage	10 V or more	Less than 12 V
Ignition switch	ON	
CPU commanded duty	–	Less than 75%
Starter	OFF	
Case 2:		
Battery voltage	12 V or more	–
Ignition switch	ON	
Starter	OFF	

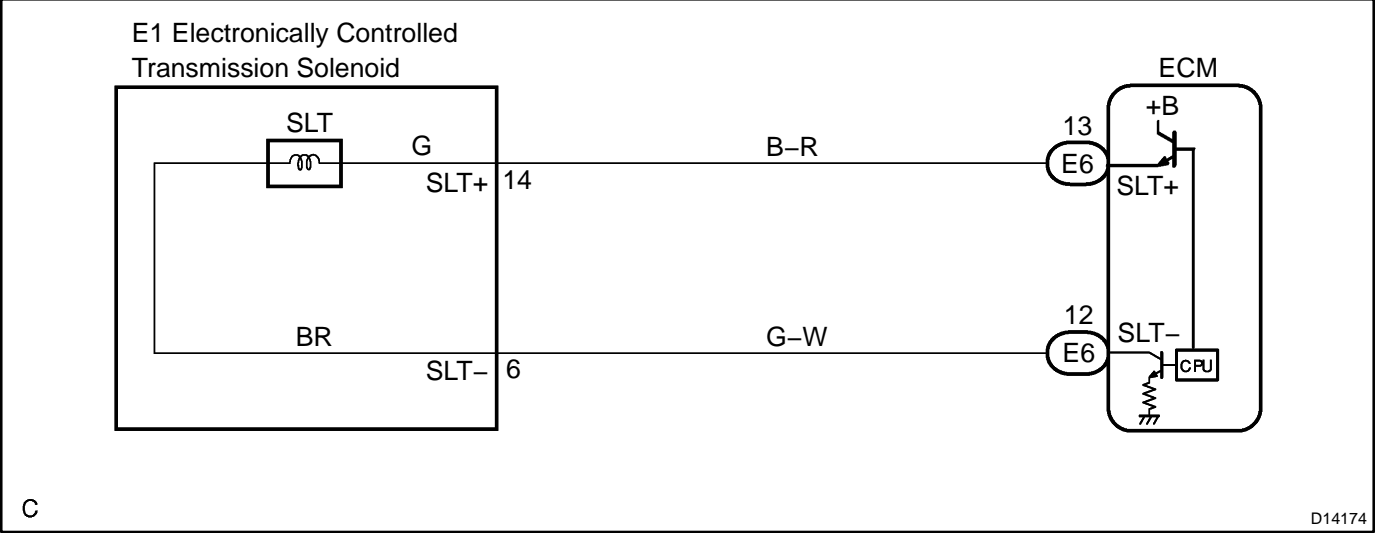
## TYPICAL MALFUNCTION THRESHOLDS

Detection criteria	Threshold
<b>Case 1:</b>	
Output signal duty	100%
<b>Case 2:</b>	
Output signal duty	100%

COMPONENT OPERATING RANGE

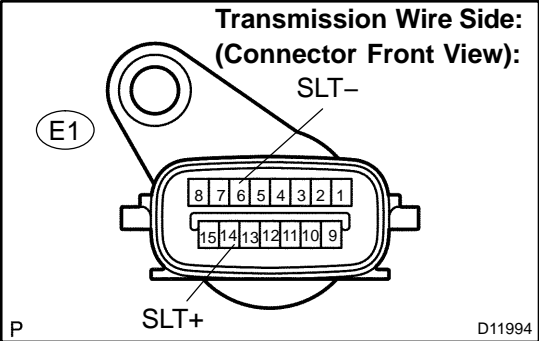
Parameter	Standard value
Output signal duty	Less than 100%

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check transmission wire.
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**PREPARATION:**

Disconnect the transmission wire connector.

**CHECK:**

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

**OK:**

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

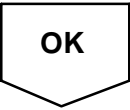
**CHECK:**

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

**OK:**

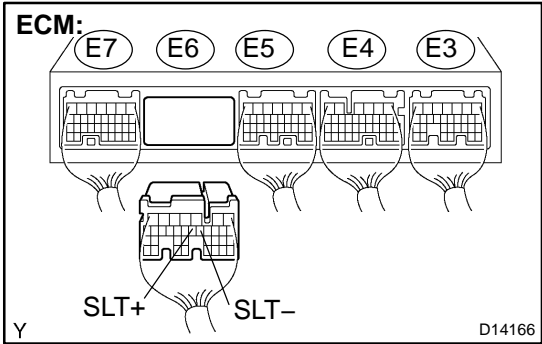
Tester Connection	Specified Condition
14 (SLT+) – Body ground	10 kΩ or higher
6 (SLT-) – Body ground	↑

NG	Go to step 3.
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2

Check harness and connector (Transmission wire – ECM)



**PREPARATION:**

- (a) Connect the transmission wire connector.
- (b) Disconnect the ECM connector.

**CHECK:**

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

**OK:**

Tester Connection	Specified Condition 20°C (68°F)
E6 – 13 (SLT+) – E6 – 12 (SLT-)	5.0 to 5.6 Ω

**CHECK:**

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

**OK:**

Tester Connection	Specified Condition
E6 – 13 (SLT+) – Body ground	10 kΩ or higher
E6 – 12 (SLT-) – Body ground	↑

NG

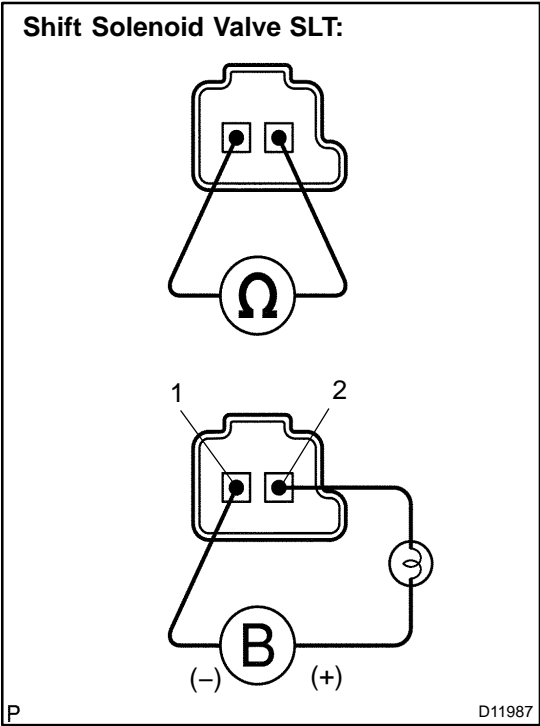
Repair or replace harness or connector  
(See page [IN-30](#)).

OK

Replace the ECM (See page [SF-66](#)).

3

Inspect shift solenoid valve SLT.



**PREPARATION:**

Remove the shift solenoid valve SLT (See page [AT-12](#)).

**CHECK:**

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

**OK:**

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

**CHECK:**

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 the shift solenoid valve SLT  
(See page [AT-12](#)).

OK

Repair or replace the transmission wire  
(See page [AT-9](#)).