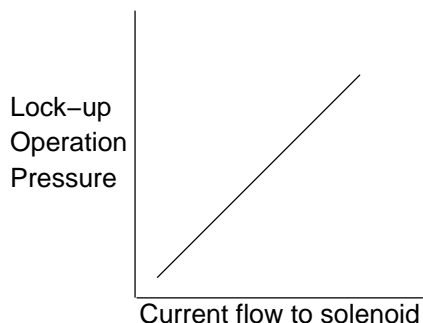


DTC	P2759	Torque Converter Clutch Pressure Control Solenoid Control Circuit Electrical(Shift Solenoid Valve SLU)
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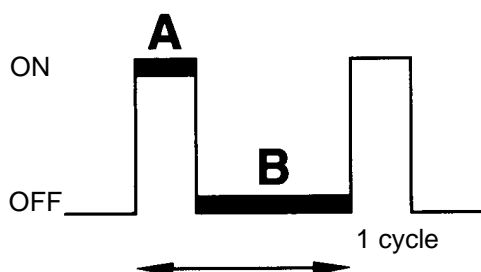
CIRCUIT DESCRIPTION

The amount of current flow to the solenoid is controlled by the (*) duty ratio of the ECM output signal. The higher the duty ratio becomes, the higher the lock-up hydraulic pressure becomes during the lock-up operation.

(*) Duty Ratio

The duty ratio is the ratio of the period of continuity in one cycle. For example, if A is the period of continuity in one cycle, and B is the period of non-continuity, then

$$\text{Duty Ratio} = \frac{A}{A + B} \times 100 (\%)$$



BE4056

D00160

DTC No.	DTC detection condition	Trouble Area
P2759	Open or short is detected in shift solenoid valve SLU circuit for 1 second or more while driving (1-trip detection logic).	<ul style="list-style-type: none"> • Open or short in shift solenoid valve SLU circuit • Shift solenoid valve SLU • ECM

MONITOR DESCRIPTION

When an open or short in a shift solenoid valve (SLU) circuit is detected, the ECM determines there is a malfunction. The ECM will turn on the MIL and store this DTC.

MONITOR STRATEGY

Related DTCs	P2759	Shift solenoid valve SLU/Range check
Required sensors/Components	Shift solenoid valve SLU	
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 DI-1128	
Solenoid current cut status	Not cut	
CPU commanded duty	19% or more	–
Battery voltage	11 V or more	–
Ignition switch	ON	
Starter	OFF	

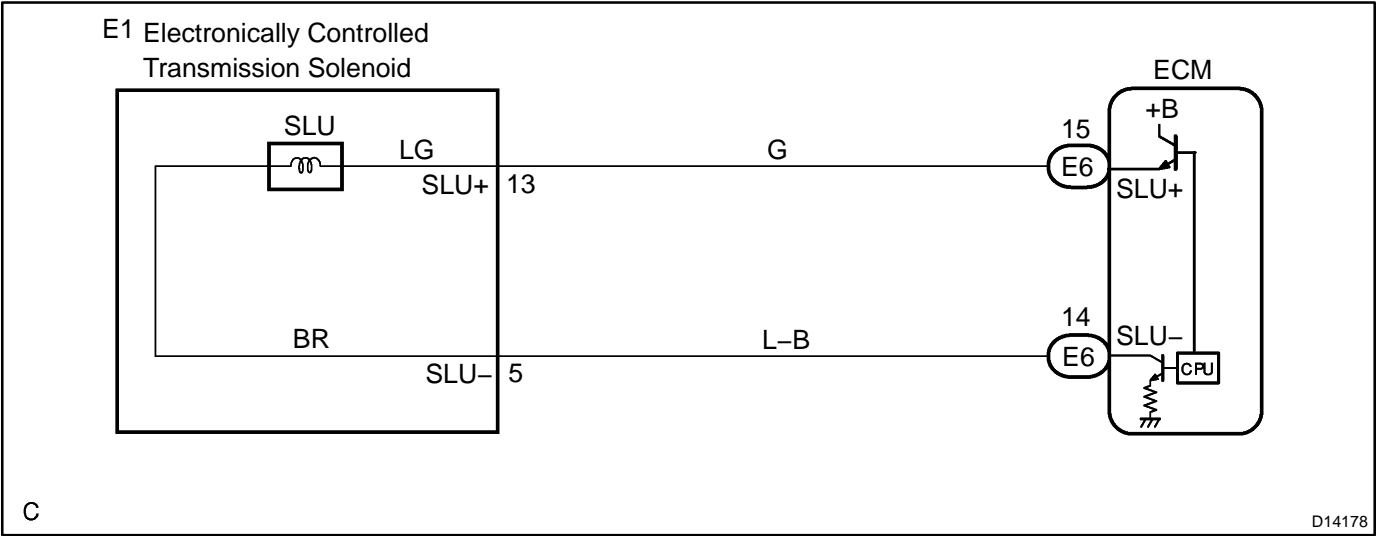
TYPICAL MALFUNCTION THRESHOLDS

Detection criteria	Threshold
Solenoid status from IC	Fail (Open or short)

COMPONENT OPERATING RANGE

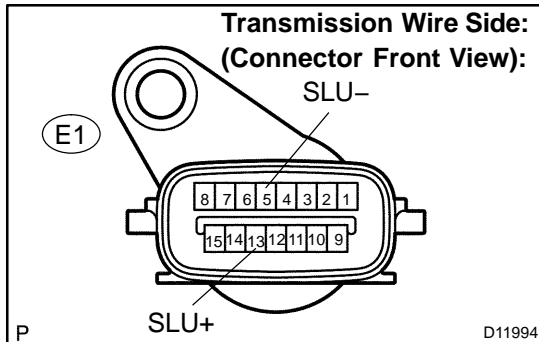
Parameter	Standard value
Output signal duty	Less than 100%

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Inspect transmission wire.



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)
13 (SLU+) – 5 (SLU-)	5.0 to 5.6 Ω

CHECK:

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

OK:

Tester Connection	Specified Condition
13 (SLU+) – Body ground	10 kΩ or higher
5 (SLU-) – Body ground	↑

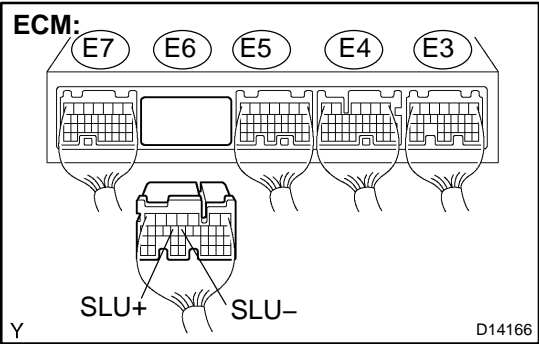
NG

Go to step 3.

OK

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 – 15 (SLU+) – E6 – 14 (SLU-)	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 – 15 (SLU+) – Body ground	10 kΩ or higher
E6 – 14 (SLU-) – Body ground	↑

NG

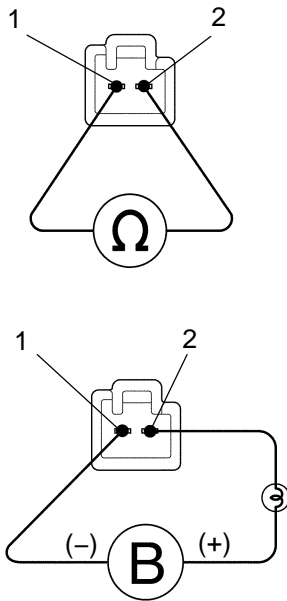
Repair or replace the harness or connector (See page IN-30).

OK

Replace the ECM (See page SF-82).

3 Inspect shift solenoid valve SLU.

Shift Solenoid Valve SLU:



D12795

PREPARATION:

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

OK

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