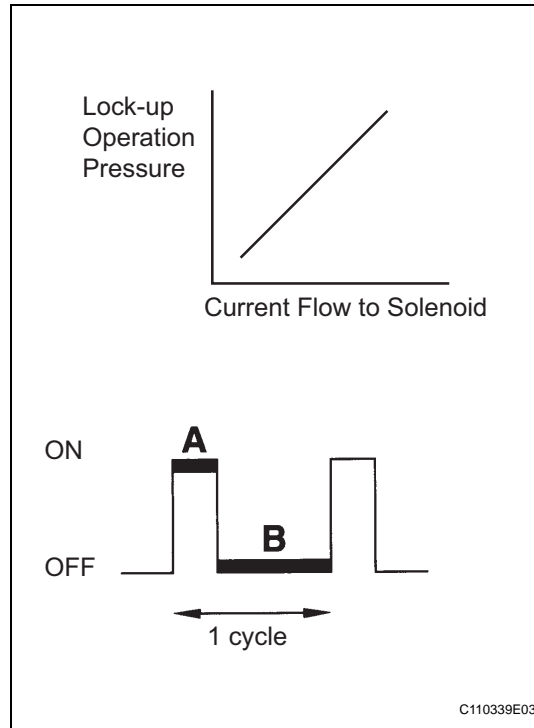


DTC	P2759	Torque Converter Clutch Pressure Control Solenoid Control Circuit Electrical (Shift Solenoid Valve SLU)
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AT DESCRIPTION



The 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.

*: 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 Duty Ratio = $A/(A+B) \times 100(\%)$.

DTC No.	DTC Detection Conditions	Trouble Areas
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 is detected in the shift solenoid valve (SLU) circuit, the ECM determines that there is a malfunction. The ECM turns on the MIL and stores 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 second
MIL operation	Immediate
Sequence of operation	None

TYPICAL ENABLING CONDITIONS

The monitor will run whenever the following DTCs are not present.	None
Battery voltage	10 V or more
CPU requested duty ratio to SLU	75 % or more
Ignition switch	ON
Starter	OFF

AT

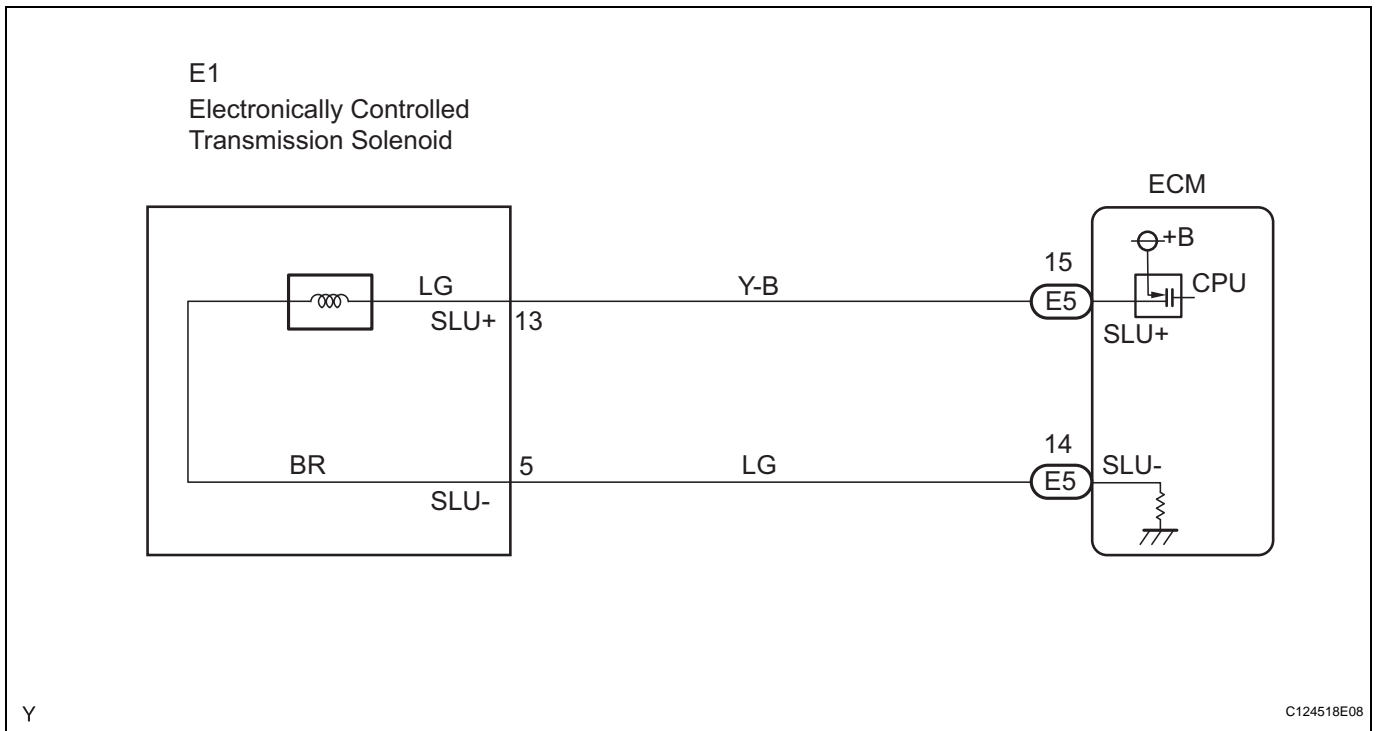
TYPICAL MALFUNCTION THRESHOLDS

Output signal duty	100 %
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COMPONENT OPERATING RANGE

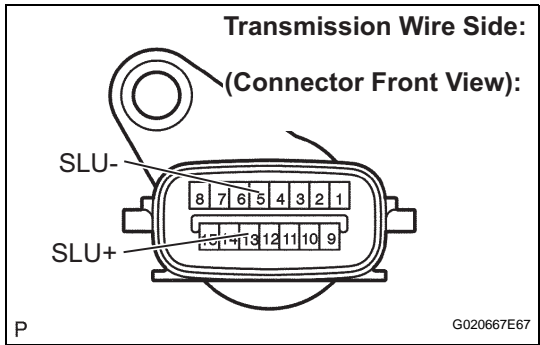
Output signal duty	Less than 100 %
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WIRING DIAGRAM



AT

1 INSPECT TRANSMISSION WIRE (SLU)



- (a) Disconnect the transmission wire connector from the transmission.
- (b) Measure the resistance.
Standard resistance

Tester Connection	Specified Condition
13 (SLU+) - 5 (SLU-)	5.0 to 5.6 Ω at 20°C (68°F)

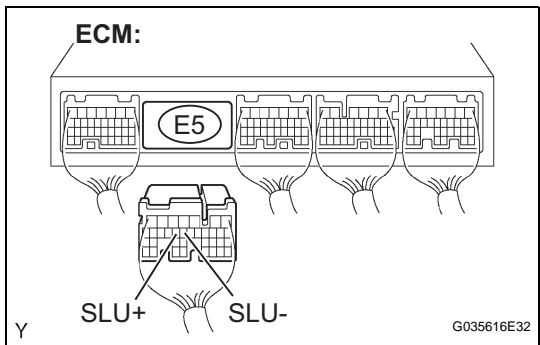
- (c) Measure the resistance.
Standard resistance (Check for short)

Tester Connection	Specified Condition
13 (SLU+) - Body ground	10 kΩ or higher
5 (SLU-) - 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
E5-15 (SLU+) - E5-14 (SLU-)	5.0 to 5.6 Ω at 20°C (68°F)

- (d) Measure the resistance.
Standard resistance (Check for short)

Tester Connection	Specified Condition
E5-15 (SLU+) - Body ground	10 kΩ or higher
E5-14 (SLU-) - Body ground	10 kΩ or higher

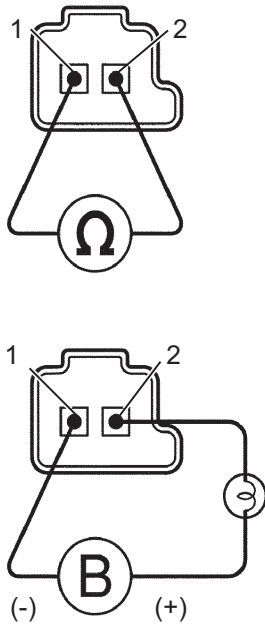
NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPLACE ECM

3 INSPECT SHIFT SOLENOID VALVE SLU

Shift Solenoid Valve SLU:



P

G020767E37

- (a) Remove the shift solenoid valve SLU.
- (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 an operating noise.

NG → **REPLACE SHIFT SOLENOID VALVE SLU**

OK

REPAIR OR REPLACE TRANSMISSION WIRE