

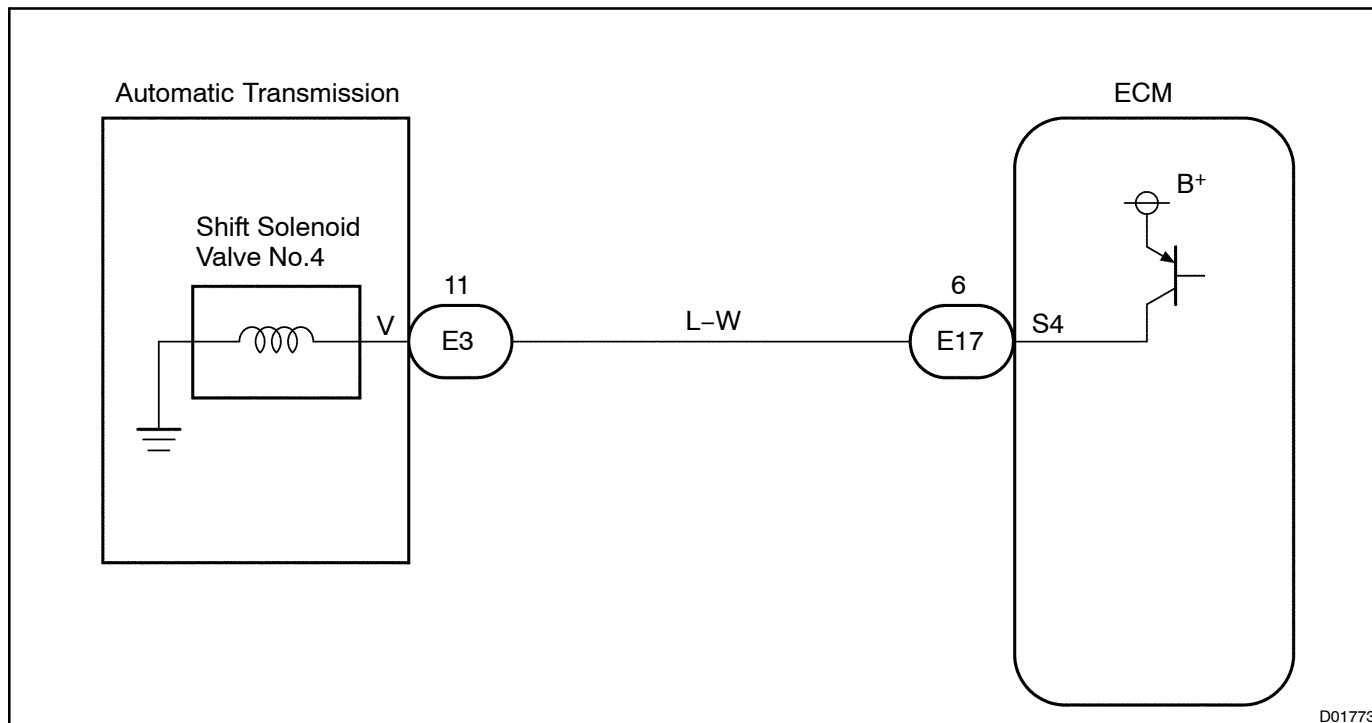
DTC	P0768	Shift Solenoid "D" Electrical Malfunction (Shift Solenoid Valve No.4)
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CIRCUIT DESCRIPTION

Shift solenoid valve No.4 is controlled by ECM and it switches ON and OFF of the O/D direct switch.

DTC No.	DTC Detecting Condition	Trouble Area
P0768	<p>The ECM checks for an open or short circuit in the shift solenoid valve No.4 circuit when it changes. The ECM records DTC P0768 if condition (a) or (b) is detected once, but it does not light up MIL. After ECM detects condition (a) or (b) continuously 2 times or more in 1-trip, it causes the MIL light up.</p> <p>(a) Solenoid resistance is 8 Ω or less (short circuit) when the solenoid is energized. (b) Solenoid resistance is 100 kΩ or more (open circuit) when the solenoid is not energized.</p>	<ul style="list-style-type: none"> • Open or short in shift solenoid valve No.4 circuit • Shift solenoid valve No.4 • ECM

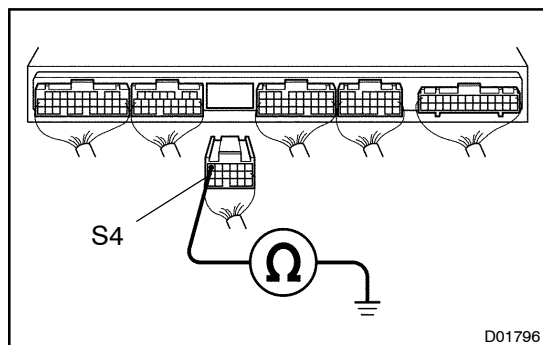
WIRING DIAGRAM



D01773

INSPECTION PROCEDURE

1 Check resistance between terminal S4 of ECM and body ground.

**PREPARATION:**

Disconnect the connector from ECM.

CHECK:

Measure resistance between terminal S4 and body ground.

OK:

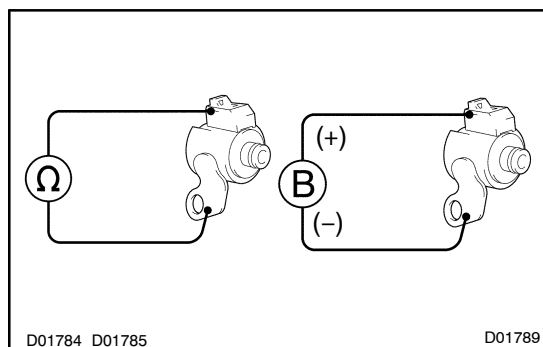
Resistance: 11 ~ 15 Ω at 20 °C (68 °F)

OK

**Check and replace the ECM
(See page IN-30).**

NG

2 Check shift solenoid valve No.4.

**PREPARATION:**

- (a) Remove the oil pan.
- (b) Remove the shift solenoid valve No.4.

CHECK:

- (a) Measure resistance between terminal and solenoid body.
- (b) Connect positive (+) lead to terminal of solenoid connector and negative (-) lead to solenoid body.

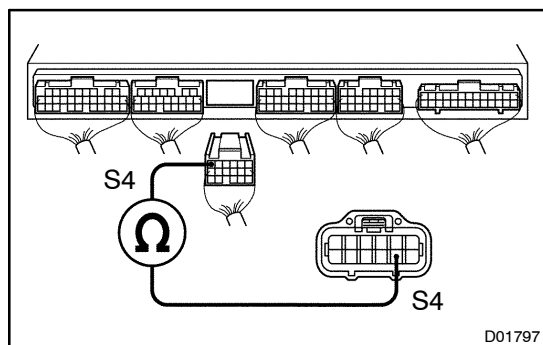
OK:

- (a) **Resistance: 11 ~ 15 Ω at 20 °C (68 °F)**
- (b) **The solenoid makes an operating noise.**

NG

Replace solenoid valve No.4.

OK

3 Check harness and connector between ECM and automatic transmission solenoid connector.**PREPARATION:**

Disconnect the solenoid connector from the automatic transmission.

CHECK:

Check the harness and connector between terminal S4 of ECM and terminal S4 solenoid connector.

OK:

There is no open and short circuit.

NG**Repair or replace harness or connector.****OK**

Proceed to next circuit inspection shown in problem symptoms table (See page [DI-410](#)). However, when DTC P0768 is displayed, check and replace ECM (See page [IN-30](#)).