DI2LC-02

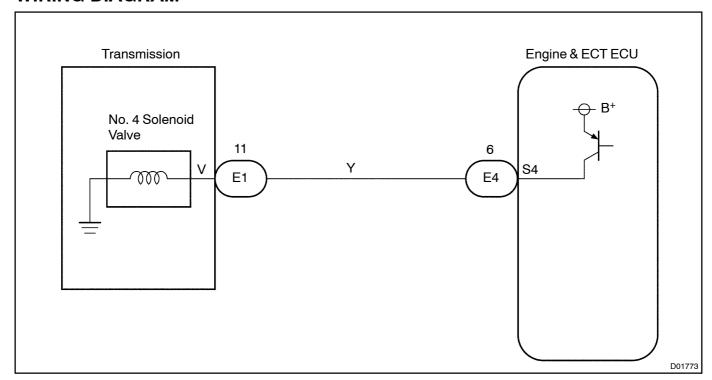
DTC	P0768/65	Shift Solenoid D Electrical Malfunction (No. 4 Solenoid Valve)	
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CIRCUIT DESCRIPTION

No. 4 solenoid valve is controlled by Engine & ECT ECU and it switches ON and OFF of the O/D direct switch.

DTC No.	DTC Detecting Condition	Trouble Area
P0768/65	The Engine & ECT ECU checks for an open or short circuit in the No. 4 solenoid valve circuit when it changes. The Engine & ECT ECU records DTC P0768/65 if condition (a) or (b) is detected once, but it does not light up CHK ENG. After Engine & ECT ECU detects condition (a) or (b) continuously 8 times or more in 1 trip, it causes the CHK ENG lights up until condition (a) or (b) disappears. After that, if the Engine & ECT ECU detects condition (a) or (b) once, it starts lighting up CHK ENG again. (a) Solenoid resistance is 8 Ω or less (short circuit) when the solenoid is energized. (b) Solenoid resistance is 100 k Ω or more (open circuit) when the solenoid is not energized.	Open or short in No. 4 solenoid valve circuit No. 4 solenoid valve Engine & ECT ECU

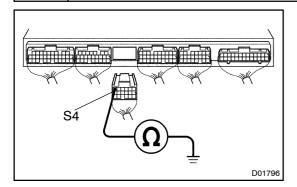
WIRING DIAGRAM



1

INSPECTION PROCEDURE

Check resistance between terminals S4 of Engine & ECT ECU and body ground.



PREPARATION:

Disconnect the connector from Engine & ECT ECU.

CHECK:

Measure resistance between terminals S4 and body ground.

OK:

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

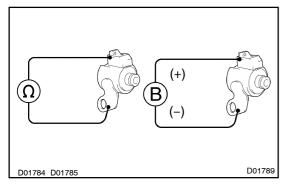


Check and replace the Engine & ECT ECU (See page N-30).



2

Check No. 4 solenoid valve.



PREPARATION:

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

CHECK:

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

<u>OK:</u>

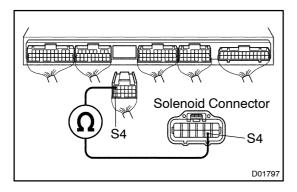
- (a) Resistance: 11 15 Ω at 20 °C (68 °F)
- (b) The solenoid makes an operating noise.

NG

Replace No. 4 solenoid valve.

OK

3 Check harness and connector between Engine & ECT ECU and automatic transmission solenoid connector.



PREPARATION:

Disconnect the solenoid connector from the automatic transmission.

CHECK:

Check the harness and connector between terminal S4 of Engine & ECT ECU and terminal S4 solenoid connector.

OK:

There is open and no short circuit.

NG

Repair or replace harness or connector.



Proceed to the cuit inspection shown in problem symptoms table (See page DI – 240). However, when DTC P0768/65 is displayed, check and replace Engine & ECT ECU (See page IN – 20).