DI2LC–05

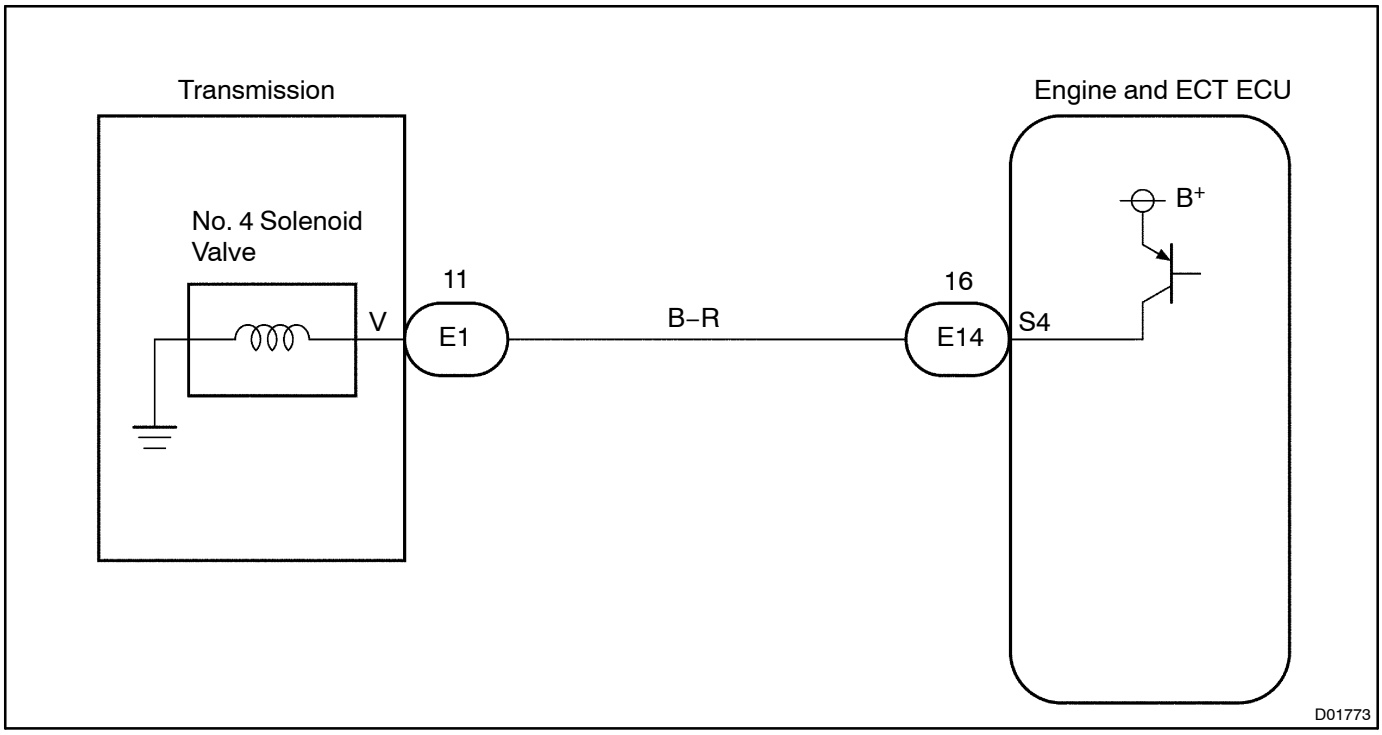
DTC	P0768/65	Shift Solenoid D Electrical Malfunction (No. 4 Solenoid Valve)

CIRCUIT DESCRIPTION

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

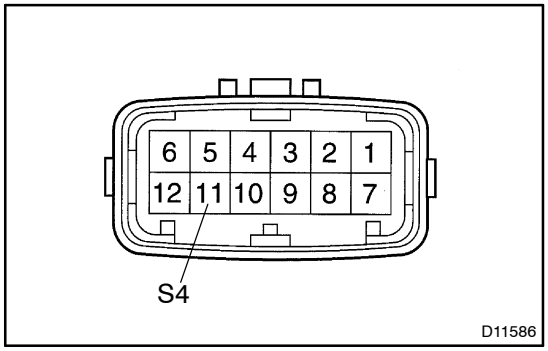
DTC No.	DTC Detecting Condition	Trouble Area
P0768/65	The Engine and ECT ECU checks for an open or short circuit in the No. 4 solenoid valve circuit when it changes. The Engine and ECT ECU records DTC P0768/65 if condition (a) or (b) is detected once, but it does not light up CHK ENG. After Engine and 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 and 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 kΩ or more (open circuit) when the solenoid is not energized.	• Open or short in No. 4 solenoid valve circuit • No. 4 solenoid valve • Engine and ECT ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check transmission wire.

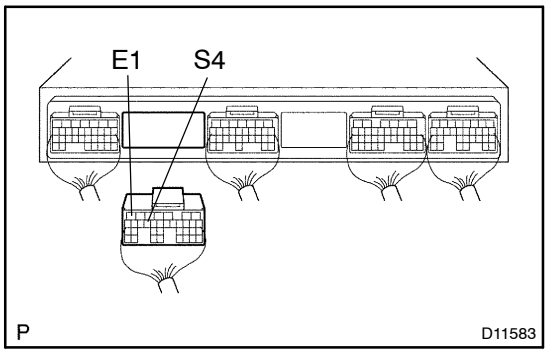


PREPARATION:
Disconnect the transmission wire connector.
CHECK:
Measure resistance between S4 of transmission wire and body ground.
OK:
Resistance: 11 – 15 Ω at 20°C (68°F)

OK	Go to step 3.

NG

2	Measure resistance between terminals S4 of Engine and ECT ECU and body ground.



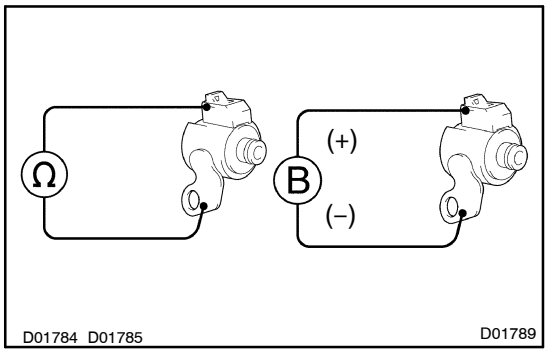
PREPARATION:
(a) Remove the Engine and ECT ECU hood.
(b) Disconnect the connector from Engine and ECT ECU.
CHECK:
Measure resistance between terminals S4 and E1 of Engine and ECT ECU.
OK:
Resistance: 11 – 15 Ω at 20°C (68°F)

OK	Check and replace the Engine and ECT ECU (See page IN–34).

NG

Repair or replace the harness or connector (See page IN–34).

3	Check No. 4 solenoid valve.



PREPARATION:

Remove the No. 4 solenoid valve (See page AT–14).

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 the No. 4 solenoid valve. (See page AT–14).**

OK

Repair or replace the transmission wire (See page AT–9).