DI2LC–04

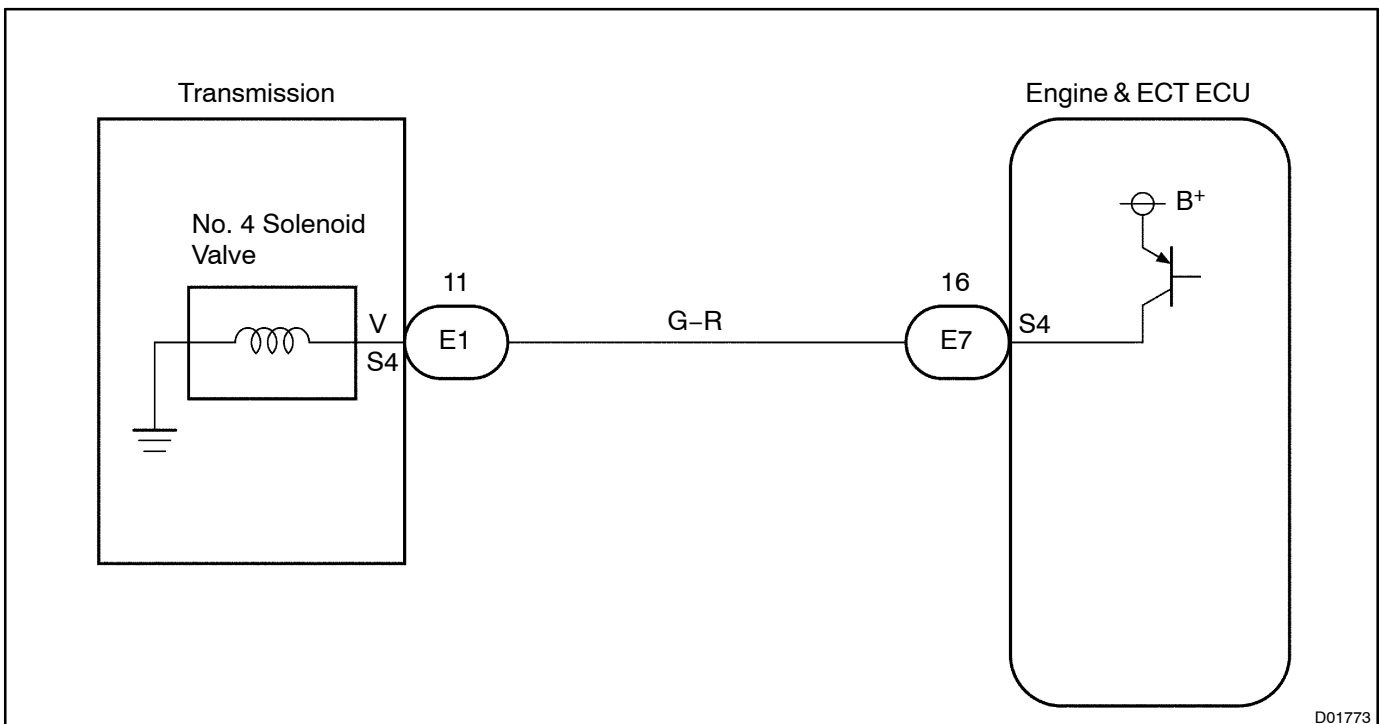| DTC	P0768/65	Shift Solenoid D Electrical Malfunction (No. 4 Solenoid Valve)

CIRCUIT DESCRIPTION

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

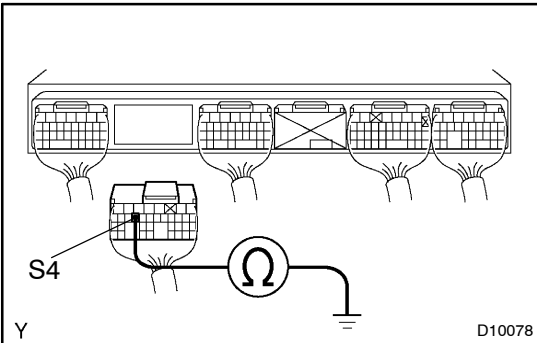| DTC No.	DTC Detecting Condition	Trouble Area
P0768/65	The Engine & ECT ECU checks for an open or short circuit in the No. 4 solenoid valve circuit when it changes. The Engine & ECT ECU records DTC P0768 if condition 1. or 2. is detected once, but it does not light up CHK ENG. After Engine & ECT ECU detects condition 1. or 2. continuously 8 times or more in 1 trip, it causes the CHK ENG lights up until condition 1. or 2. disappears. After that, if the Engine & ECT ECU detects condition 1. or 2. once, it starts lighting up CHK ENG again. 1. Solenoid resistance is 8 Ω or less (short circuit) when the solenoid is energized. 2. 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 & ECT ECU

WIRING DIAGRAM

D01773

INSPECTION PROCEDURE

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

PREPARATION:
Disconnect the connector from Engine & ECT ECU.
CHECK:
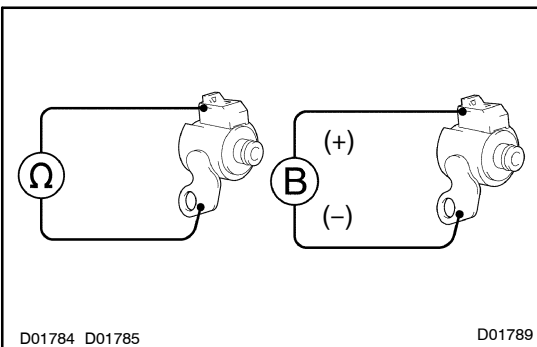Measure resistance between terminals S4 and body ground.
OK:

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

OK >	Check and replace the Engine & ECT ECU (**See page IN–35**).

NG

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.
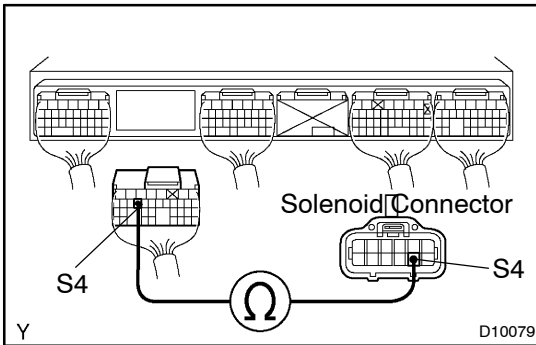**OK:**

(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.**

OK

Proceed to next circuit inspection shown in problem symptoms table (See page DI–191). However, when DTC P0768/65 is displayed, check and replace Engine & ECT ECU (See page IN–35).