

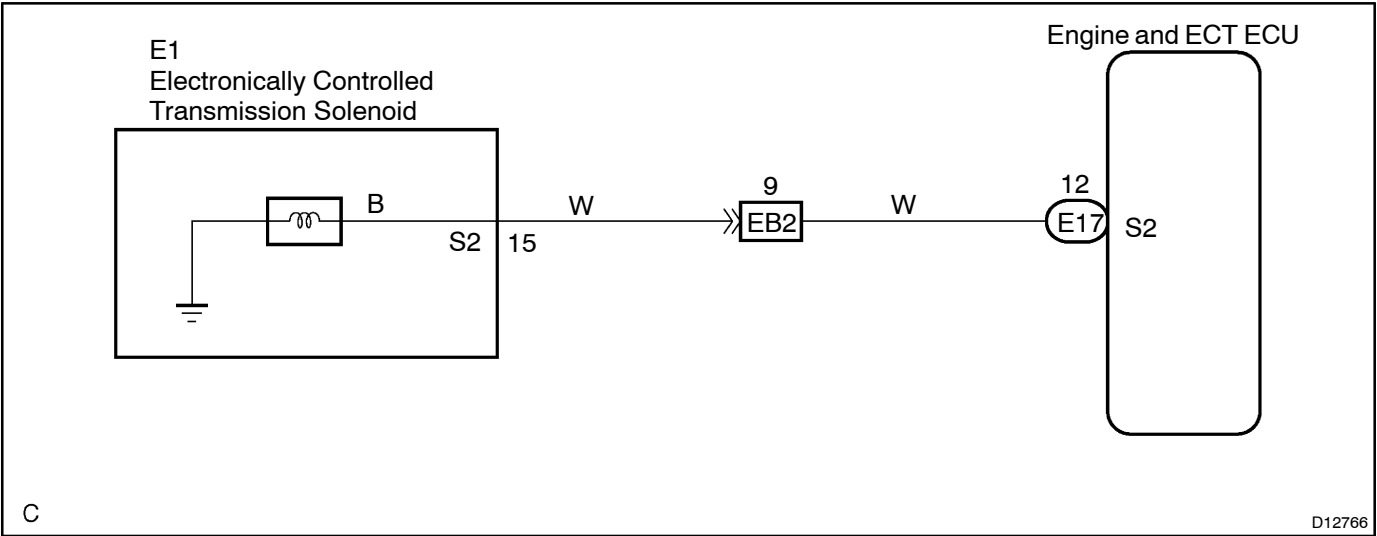
DTC	63(2)	Shift Solenoid B Electrical (S2)
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CIRCUIT DESCRIPTION

See page DI-135.

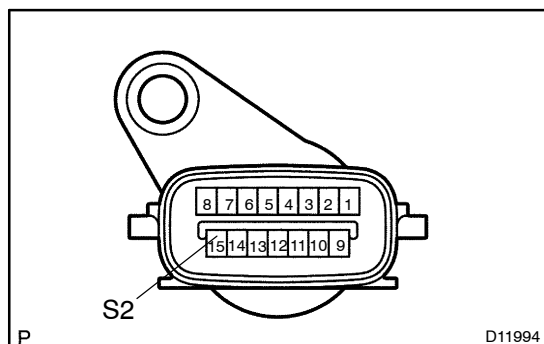
DTC No.	DTC Detecting Condition	Trouble Area
63(2)	The Engine & ECT ECU checks for an open or short circuit in the shift solenoid valve S2 circuit when it changes. (1-trip detection logic) The Engine & ECT ECU records DTC 63(2) if condition (a) or (b) is detected once, but it does not light up check engine warning light. After Engine & ECT ECU detects condition (a) or (b) continuously 8 times or more in one-trip, it causes the check engine warning light light up until condition (a) or (b) disappears. After that, if the Engine & ECT ECU detects condition (a) or (b) once, it starts lighting up check engine warning light 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 shift solenoid valve S2 circuit • Shift solenoid valve S2 • Engine and ECT ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check transmission wire.

**PREPARATION:**

Disconnect the transmission wire connector.

CHECK:

Measure resistance between S2 of transmission wire connector and body ground.

OK:

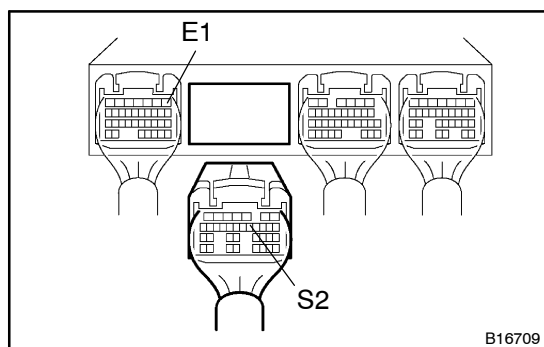
Resistance: 11 – 15 Ω at 20°C (68°F)

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Go to step 3.

OK

2 Measure resistance between terminal S2 and E1 of Engine and ECT ECU connector.

**PREPARATION:**

- (a) Connect the transmission wire connector.
- (b) Disconnect the connector of the Engine and ECT ECU.

CHECK:

Measure resistance between terminals S2 and E1 of Engine and ECT ECU connector.

OK:

Resistance: 11 – 15 Ω at 20°C (68°F)

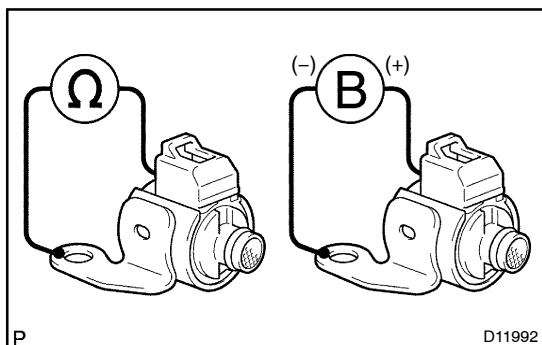
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**Repair or replace the harness or connector
(See page IN-38).**

OK

**Check and replace the Engine and ECT ECU
(See page IN-38).**

3 Check shift solenoid valve S2.



PREPARATION:

- Jack up the vehicle.
- Remove the oil pan.
- Remove the shift solenoid valve S2.

CHECK:

Measure the resistance between the solenoid connector terminal and the body ground.

OK:

Resistance: 11 – 15 Ω at 20°C (68°F)

CHECK:

Connect the battery positive lead to the solenoid connector terminal and the battery negative lead to the solenoid body ground.

OK:

Solenoid sounds operation noise.

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**Replace the shift solenoid valve S2
(See page AT-8).**

OK

**Repair or replace the transmission wire
(See page AT-6).**