

DTC	P0976/63	Shift Solenoid "B" Control Circuit Low (Shift Solenoid Valve S2)
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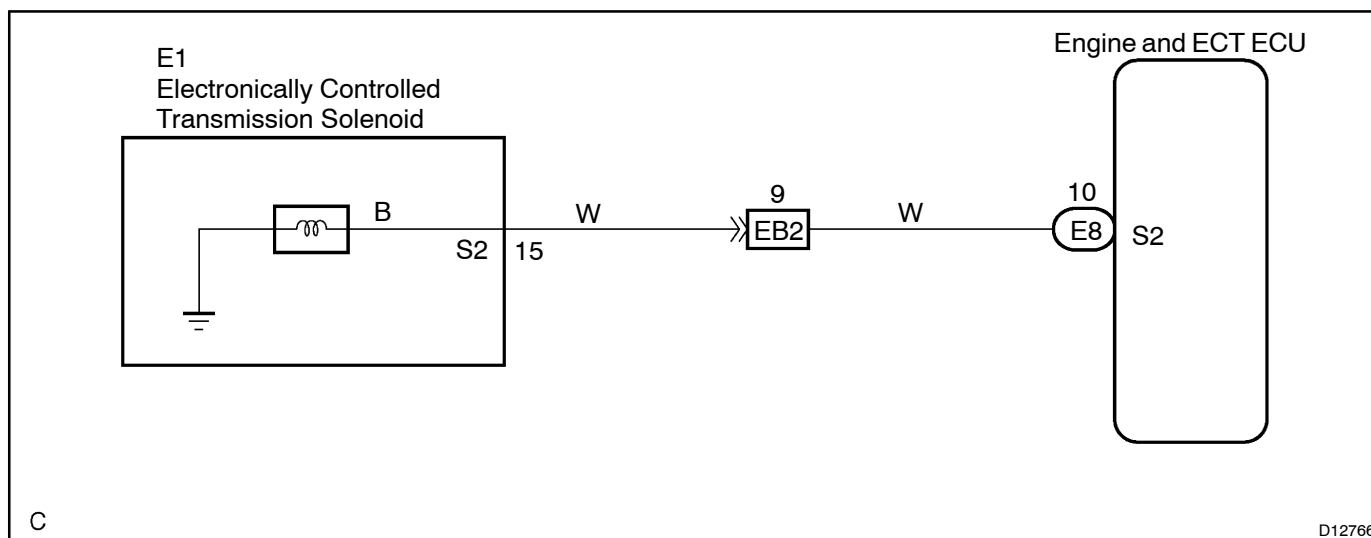
DTC	P0977/63	Shift Solenoid "B" Control Circuit High (Shift Solenoid Valve S2)
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CIRCUIT DESCRIPTION

See [page DI-49](#).

DTC No.	DTC Detection Condition	Trouble Area
P0976/63	Engine and ECT ECU detects short in solenoid valve S2 circuit 4 times when solenoid valve S2 is operated (1-trip detection logic)	<ul style="list-style-type: none"> • Short in shift solenoid valve S2 circuit • Shift solenoid valve S2 • Engine and ECT ECU
P0977/63	Engine and ECT ECU detects open in solenoid valve S2 circuit 4 times when solenoid valve S2 is not operated (1-trip detection logic)	<ul style="list-style-type: none"> • Open in shift solenoid valve S2 circuit • Shift solenoid valve S2 • Engine and ECT ECU

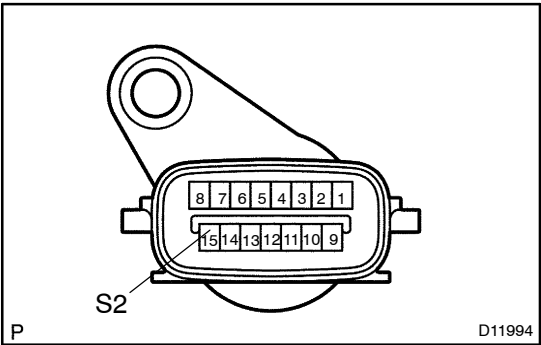
WIRING DIAGRAM



INSPECTION PROCEDURE

1

Check transmission wire.



PREPARATION:
 Disconnect the transmission wire connector.

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

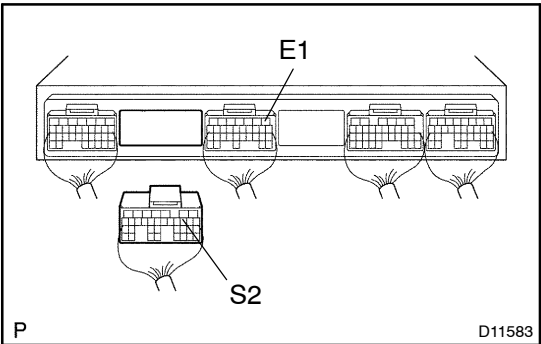
OK:
 Resistance: 11 – 15 Ω at 20°C (68°F)

NG → 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.

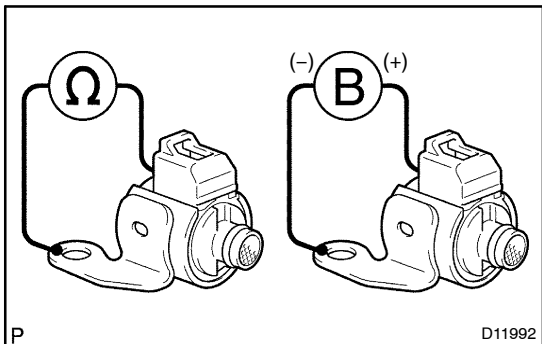
OK:
 Resistance: 11 – 15 Ω at 20°C (68°F)

NG → 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.

NG

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

OK

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