DIAUW–01

DTC	P0976/63	Shift Solenoid ”B” Control Circuit Low (Shift Solenoid Valve S2)

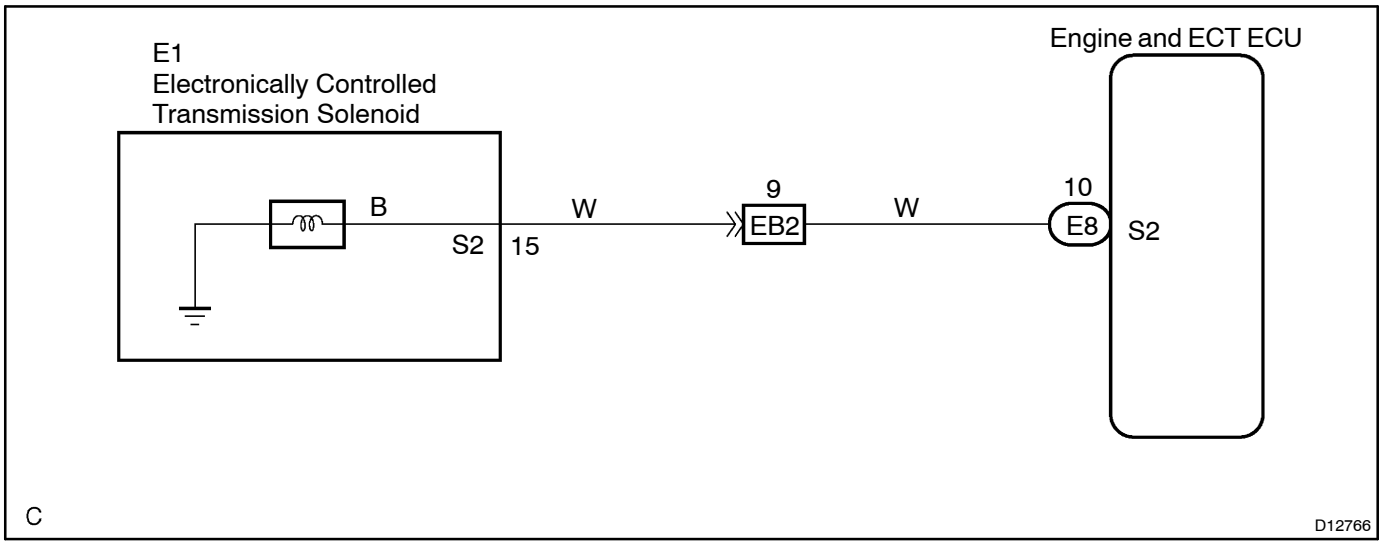
DTC	P0977/63	Shift Solenoid ”B” Control Circuit High (Shift Solenoid Valve S2)

CIRCUIT DESCRIPTION

See page DI–49.

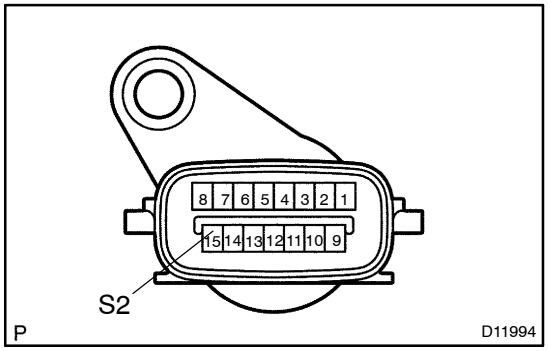
DTC No.	DTC Detection Condition	Trouble Area
P0976/63	Engine and ECT ECU detects short in solenoid valve S2 circuit 4 times when solenoid valve S2 is operated (1 –trip detection logic)	• Short in shift solenoid valve S2 circuit • Shift solenoid valve S2 • Engine and ECT ECU
P0977/63	Engine and ECT ECU detects open in solenoid valve S2 circuit 4 times when solenoid valve S2 is not operated (1 –trip detection logic)	• Open in shift solenoid valve S2 circuit • Shift solenoid valve S2 • Engine and ECT ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Check transmission wire.**

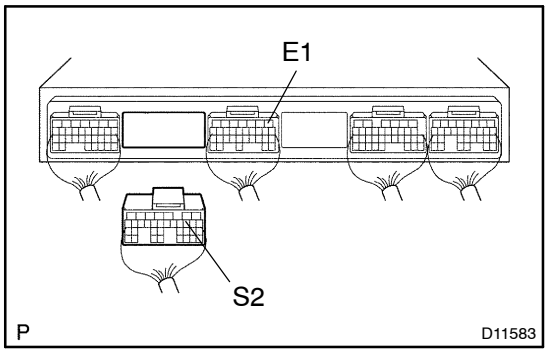


PREPARATION:
Disconnect the transmission wire connector.
CHECK:
Measure resistance between S2 of transmission wire connector and body ground.
OK:
Resistance: 11 – 15 Ω at 20°C (68°F)

NG → **Go to step 3.**

OK

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



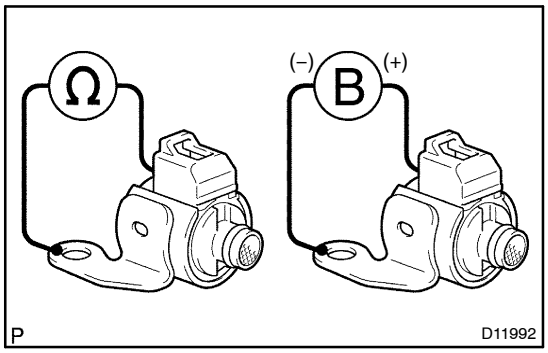
PREPARATION:
(a) Connect the transmission wire connector.
(b) Disconnect the connector of the Engine and ECT ECU.
CHECK:
Measure resistance between terminals S2 and E1 of Engine and ECT ECU connector.
OK:
Resistance: 11 – 15 Ω at 20°C (68°F)

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:

(a) Jack up the vehicle.
(b) Remove the oil pan.
(c) 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).