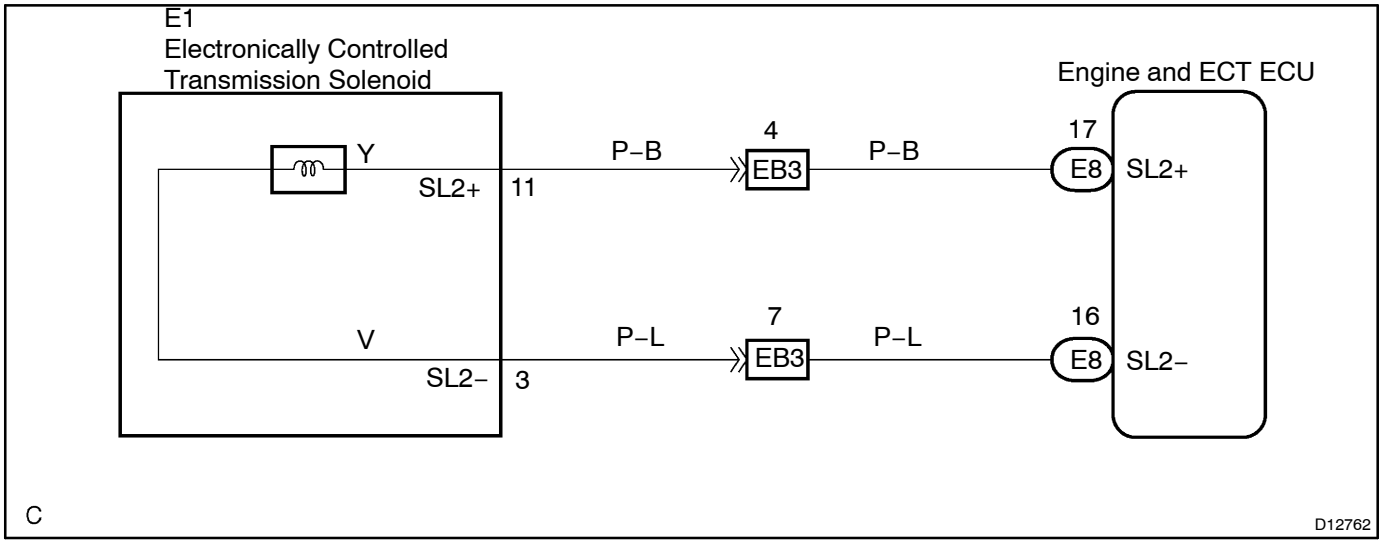
DTC	P0778/63	Pressure Control Solenoid ”B” Electrical (Shift Solenoid Valve SL2)

CIRCUIT DESCRIPTION

See page DI–49.

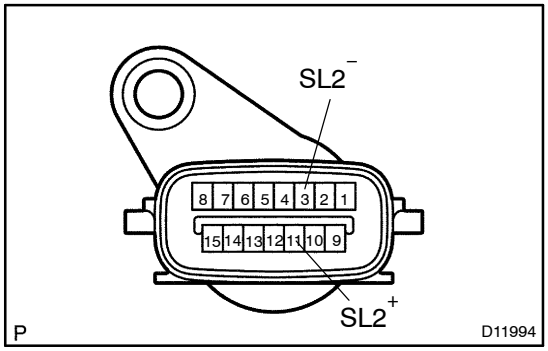
DTC No.	DTC Detection Condition	Trouble Area
P0778/63	Engine and ECT ECU checks for an open or short circuit in shift solenoid valves SL2 (1 –trip detection logic) (a) When solenoid is energized, duty ratio exceed 75% (b) When solenoid is not energized, duty ratio is less than 3%	• Open or short in shift solenoid valve SL2 circuit • Shift solenoid valve SL2 • Engine and ECT ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Check transmission wire.**

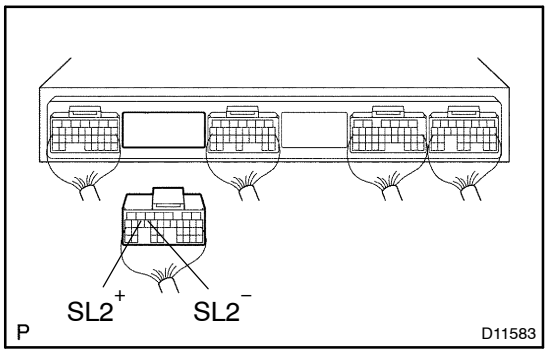


PREPARATION:
Disconnect the transmission wire connector.
CHECK:
Measure resistance between $SL2^{+}$ and $SL2^{-}$ of transmission wire.
OK:
Resistance: 5.0 – 5.6 Ω at 20°C (68°F)
CHECK:
Measure resistance between terminals $SL2^{+}$ and $SL2^{-}$ of the transmission wire connector and body ground.
OK:
Resistance: 1 MΩ or higher

NG	**Go to step 3.**

OK

2	**Measure resistance between terminal $SL2^{+}$ and $SL2^{-}$ of Engine and ECT ECU connector.**



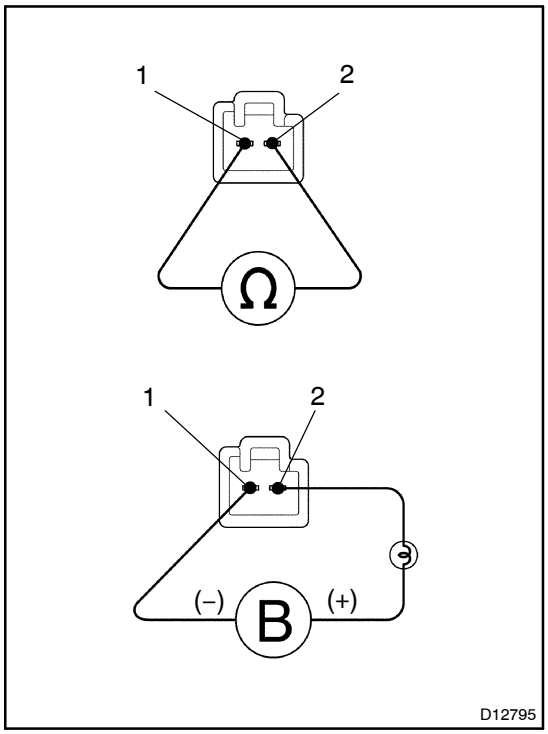
PREPARATION:
(a) Connect the transmission wire connector.
(b) Disconnect the connector of the Engine and ECT ECU.
CHECK:
Measure resistance between terminals $SL2^{+}$ and $SL2^{-}$ of Engine and ECT ECU connector.
OK:
Resistance: 5.0 – 5.6 Ω at 20°C (68°F)
CHECK:
Measure resistance between terminals $SL2^{+}$ and $SL2^{-}$ of the Engine and ECT ECU connector and body ground.
OK:
Resistance: 1 MΩ or higher

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 SL2.



PREPARATION:

(a) Jack up the vehicle.
(b) Remove the oil pan.
(c) Remove the shift solenoid valve SL2.

CHECK:

(a) Measure the resistance between terminals 1 and 2 of solenoid connector.
Standard: 5.0 – 5.6 Ω at 20°C (68°F)
(b) Connect the positive (+) lead with an 21 W bulb to terminal 2 of solenoid connector and negative (–) lead to terminal 1 of the solenoid valve connector, then check the movement of the valve.
Standard: Solenoid sounds operation noise.

OK:

Standard

NG → **Replace the shift solenoid valve SL2 (See page AT–8).**

OK

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