DIAVH–01

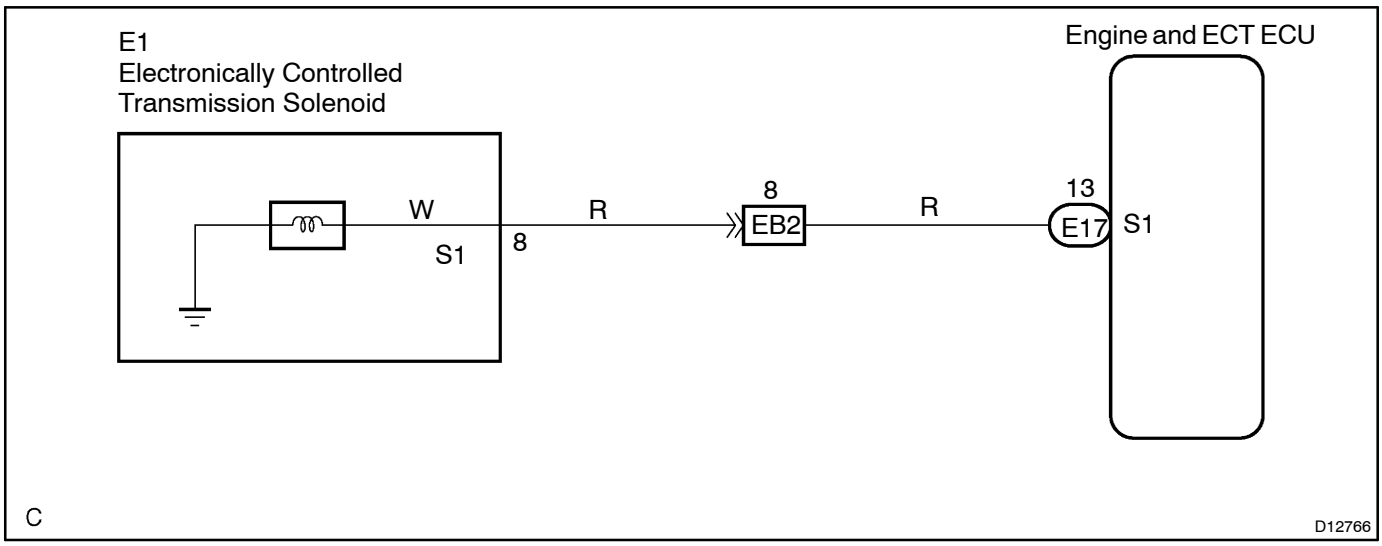
DTC	62(1)	Shift Solenoid A Electrical (S 1)

CIRCUIT DESCRIPTION

See page DI–135.

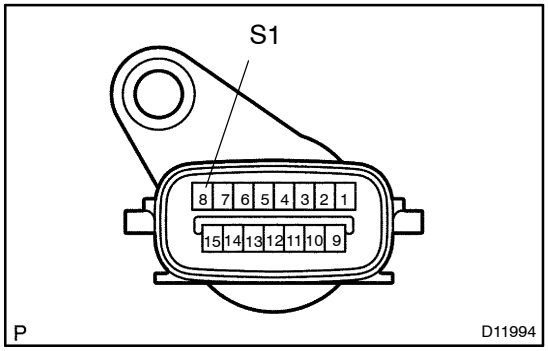
DTC No.	DTC Detecting Condition	Trouble Area
62(1)	The Engine & ECT ECU checks for an open or short circuit in the shift solenoid valve S1 circuit when it changes. (1 –trip detection logic) The Engine & ECT ECU records DTC 62(1) if condition (a) or (b) is detected once, but it does not light up check 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 k Ω or more (open circuit) when the solenoid is not energized.	• Open or short in shift solenoid valve S1 circuit • Shift solenoid valve S1 • Engine and ECT ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Check transmission wire.**

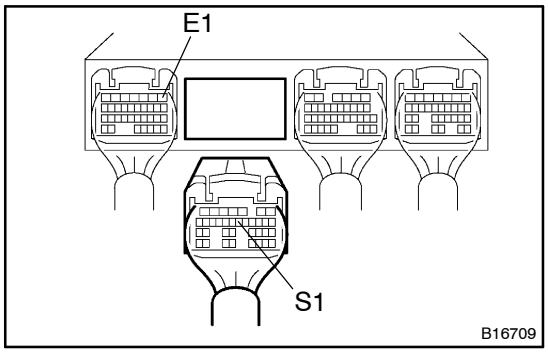


PREPARATION:
Disconnect the transmission wire connector.
CHECK:
Measure resistance between S1 of transmission wire connector and body ground.
OK:
Resistance: 11 – 15 Ω at 20°C (68°F)

NG → **Go to step 3.**

OK

2	**Measure resistance between terminal S1 and E1 of Engine and ECT ECU connector.**



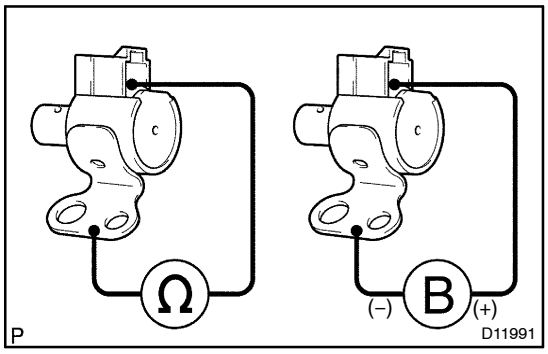
PREPARATION:
(a) Connect the transmission wire connector.
(b) Disconnect the connector of the Engine and ECT ECU.
CHECK:
Measure resistance between terminals S1 and E1 of Engine and ECT ECU connector.
OK:
Resistance: 11 – 15 Ω at 20°C (68°F)

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 S1.



PREPARATION:

(a) Jack up the vehicle.
(b) Remove the oil pan.
(c) Remove the shift solenoid valve S1.

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 S1 (See page AT–8).**

OK

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