DIAUP–01

DTC	P075 1	Shift Solenoid ”A” Performance (Shift Solenoid Valve S 1)

DTC	P0756	Shift Solenoid ”B” Performance (Shift Solenoid Valve S2)

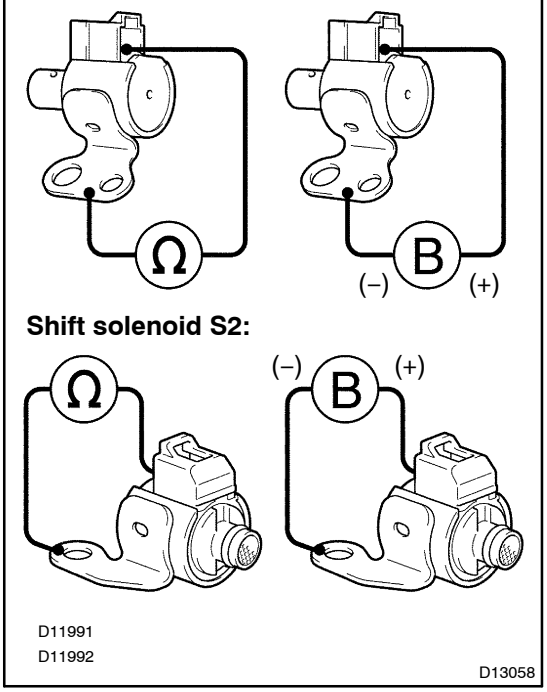
SYSTEM DESCRIPTION

The Engine and ECT ECU uses signals from the vehicle speed sensor and direct clutch speed sensor to detect the actual gear range (1st, 2nd, 3rd, 4th or 5th gear). Then the Engine and ECT ECU compares the actual gear with the shift schedule in the Engine and ECT ECU memory to detect mechanical troubles of the shift solenoid valves, valve body or automatic transmission (clutch, brake or gear etc.).

DTC No.	DTC Detecting Condition	Trouble Area
P0751	The gear required by the Engine and ECT ECU does not match the actual gear when driving (2 –trip detection logic)	• Shift solenoid valve S 1 is stuck open or closed • Valve body is blocked up or stuck • Automatic transmission (clutch, brake or gear etc.)
P0756		• Shift solenoid valve S2 is stuck open or closed • Valve body is blocked up or stuck • Automatic transmission (clutch, brake or gear etc.)

INSPECTION PROCEDURE

1	**Check shift solenoid valve S1 or S2 operation.**



PREPARATION:

(a) Jack up the vehicle.
(b) Remove the oil pan.
(c) Remove the shift solenoid valve S1 or 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 shift solenoid valve S1 or S2 (See page AT–8).**

OK

2	**Check valve body (See page DI–26).**

NG → **Repair or replace valve body (See page AT–8).**

OK

Repair or replace transmission (See page AT–31).