

DTC	P0771	Shift Solenoid "E" Performance (Shift Solenoid Valve SR)
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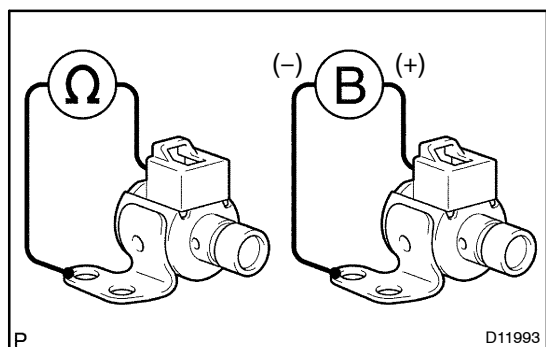
SYSTEM DESCRIPTION

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
P0771	The gear required by the Engine and ECT ECU does not match the actual gear when driving (2-trip detection logic)	<ul style="list-style-type: none"> • Shift solenoid valve SR is stuck open or closed • Shift solenoid valve SL1 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 SR operation.
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PREPARATION:

- Jack up the vehicle.
- Remove the oil pan.
- Remove the shift solenoid valve SR.

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:

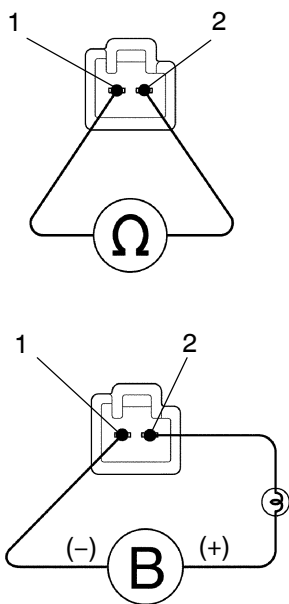
Solenoid sounds operation noise.

NG

Replace shift solenoid valve SR (See page AT-8).

OK

2 Check shift solenoid valve SL1 operation.



D12795

PREPARATION:

Remove the shift solenoid valve SL1.

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 shift solenoid valve SL1 ([See page AT-8](#)).

OK

3 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](#)).