

DTC	P0750/62	SL1 SOLENOID VALVE MALFUNCTION
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DTC	P0755/63	SL2 SOLENOID VALVE MALFUNCTION
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DTC	P0765/65	S4 SOLENOID VALVE MALFUNCTION
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SYSTEM DESCRIPTION

The ECM uses signals from the vehicle speed sensor to detect the actual gear range (1st, 2nd, 3rd or D/D gear).

Then the ECM compares the actual gear with the shift schedule in the ECM memory to detect mechanical troubles of the shift solenoid valves and valve body.

DTC No.	DTC Detection Condition	Trouble Area
P0750/62 P0755/63 P0765/65	During normal driving, gear required by ECM does not match the actual gear (trip detection logic)	<ul style="list-style-type: none"> • Shift solenoid valve (SL1, SL2 or S4) is stuck open or closed • Valve body is blocked or stuck • ECM • Torque converter clutch • Automatic transmission

HINT:

- Start the inspection from step 2 when DTC P0750 is output.
- Start the inspection from step 3 when DTC P0755 is output.
- Start the inspection from step 4 when DTC P0765 is output.

INSPECTION PROCEDURE

1	DO ACTIVE TEST OF HAND-HELD TESTER
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NOTICE:

The values given below for "Normal Condition" are representative values, so a vehicle may still be normal even if its value differs from those listed here. Do not depend solely on the "Normal Condition" here when deciding whether or not the part is faulty.

Measurement Item	Contents of Test	Restriction
ECT Shift Range	Possible to set any shift range.	Possible to test at the vehicle speed of 50km/h (31 mph) or less.

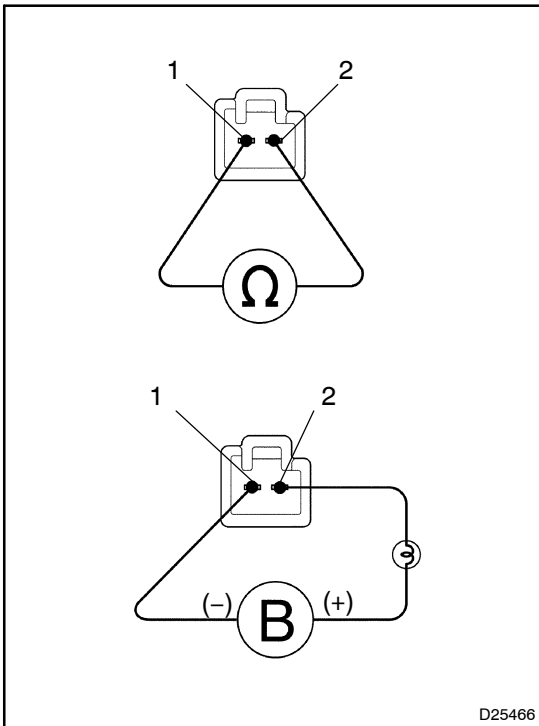
NG(A) Go to step 2

NG(B) Go to step 3

NG(C) Go to step 4

OK

CHECK AND REPLACE ECM (See page 01-30)
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2 INSPECT SHIFT SOLENOID VALVE SL1

- (a) Remove the shift solenoid valve SL1.
(b) Measure the resistance between terminals.

OK:

Resistance: 5.1 – 5.5 Ω at 20°C (68°F)

- (c) Connect the positive (+) lead with an 21 W bulb to terminal 2 and the negative (–) lead to terminal 1 of the solenoid valve connector, then check the movement of the valve.

OK:

The solenoid makes an operating noise.

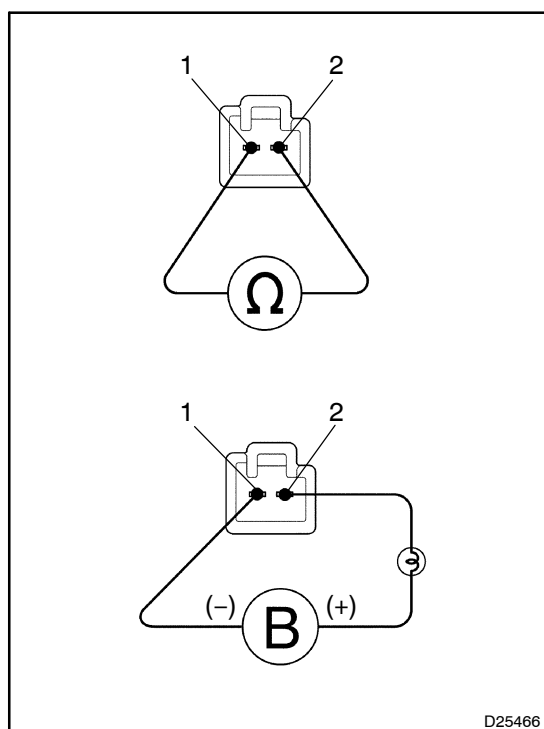
OK

Go to step 5

NG

REPLACE SHIFT SOLENOID VALVE SL1

3 INSPECT SHIFT SOLENOID VALVE SL2



- (a) Remove the shift solenoid valve SL2.
- (b) Measure the resistance between terminals.
OK:
Resistance: 5.1 – 5.5 Ω at 20°C (68°F)
- (c) Connect the positive (+) lead with an 21 W bulb to terminal 2 and the negative (-) lead to terminal 1 of the solenoid valve connector, then check the movement of the valve.
OK:
The solenoid makes an operating noise.

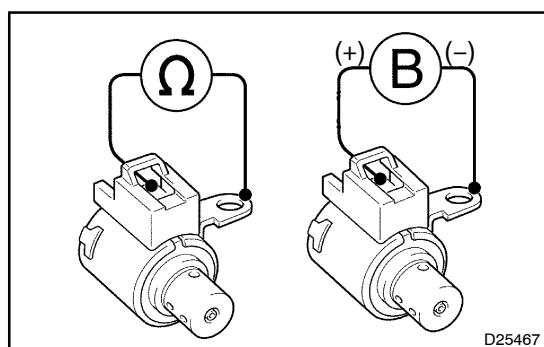
OK

Go to step 5

NG

REPLACE SHIFT SOLENOID VALVE SL2

4 INSPECT SHIFT SOLENOID VALVE S4



- (a) Remove the shift solenoid valve S4.
- (b) Measure the resistance between the solenoid connector and the solenoid body.
OK:
Resistance: 11 – 15 Ω at 20°C (68°F)
- (c) Connector positive ⊕ lead to the terminal of solenoid connector, negative ⊖ lead to the solenoid body.
OK:
The solenoid makes an operating noise.

OK

Go to step 5

NG

REPLACE SHIFT SOLENOID VALVE S4

5 INSPECT TRANSMISSION VALVE BODY ASSY**NG****REPAIR OR REPLACE TRANSMISSION VALVE
BODY ASSY (See page 40-26)****OK****6 INSPECT TORQUE CONVERTER CLUTCH ASSY (See page 40-19)****NG****REPLACE TORQUE CONVERTER CLUTCH
ASSY****OK****REPAIR AUTOMATIC TRANSAXLE ASSY (See page 40-7)**