DTC	P0773/64	SL SOLENOID VALVE ELECTRICAL MALFUNCTION

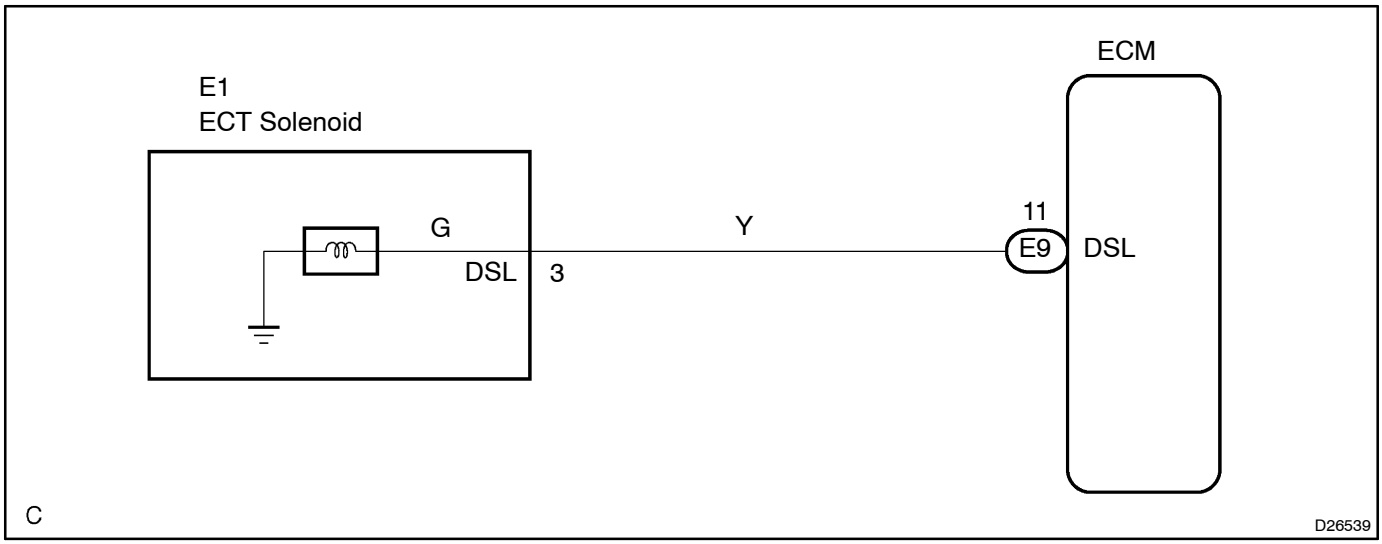
CIRCUIT DESCRIPTION

The shift solenoid valve DSL is turned ON and OFF by signals from the ECM in order to control the hydraulic pressure operation the lock–up relay valve, which then the controls operation of the lock–up clutch.

DTC No.	DTC Detection Condition	Trouble Area
P0773/64	Either (a) or (b) is detected at 1 time: (2 trip detection logic) (a) Solenoid resistance is 8 Ω or less short circuit when solenoid is energized (b) Solenoid resistance is 100 kΩ or more open circuit when solenoid is not energized	• Open or short in shift solenoid valve DSL circuit • Shift solenoid valve DSL • ECM

Fail safe function:
If the ECM detects a malfunction, it turns the shift solenoid valve DSL OFF.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:
Start the inspection from step 1 in case of using the hand–held tester and start from step 2 in case of not using hand–held tester.

1	PERFORM ACTIVE TEST BY HAND–HELD TESTER

(a) Warm up the engine.
(b) Turn the ignition switch OFF.
(c) Connect the Hand–held tester to the DLC3.
(d) Turn the ignition switch ON and push the Hand–held tester main SW ON.
(e) Select the item ”LOCK UP” in the ACTIVE TEST and operate the Lock–up solenoid valves on the Hand–held tester.

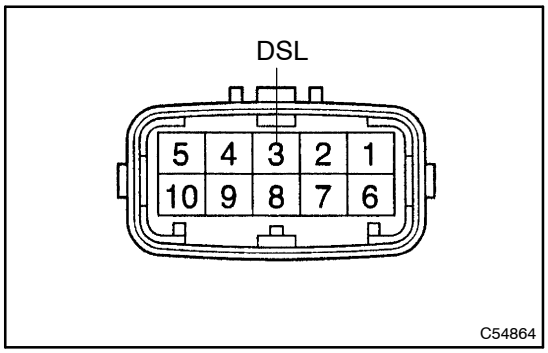
NOTICE:
The values given below for ”Normal Condition” are representative values, so a vehicle may still be normal even if its value differs from those listed here. Do not depend solely on the ”Normal Condition” here when deciding whether or not the part is faulty.

Item	Test Details	Diagnostic Note
LOCK UP	[Test Details] Control the shift solenoid DSL to set the ATM to the lock–up condition. [Vehicle Condition] Vehicle Speed: 58 km/h (36 mph) or more	Possible to check the DSL operation.

OK → **CHECK AND REPLACE ECM(See page 01–31)**

NG

2	INSPECT TRANSMISSION WIRE(DSL)

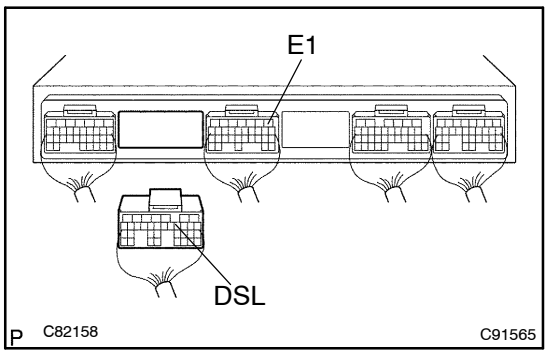


(a) Disconnect the solenoid connector from the transaxle.
(b) Measure resistance between the terminal 3 and the body ground.
OK:
Resistance: 11 – 13 Ω at 20 °C (68 °F)

NG → **Go to step 4**

OK

3 CHECK HARNESS AND CONNECTOR(TRANSMISSION WIRE–ECM)



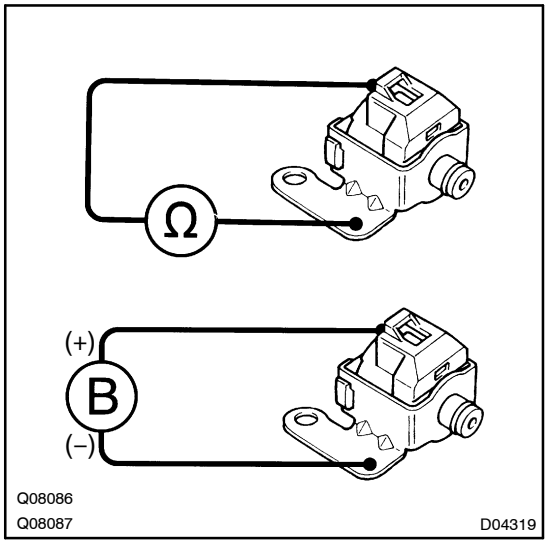
(a) Connect the transmission wire connector.
(b) Disconnect the ECM connector.
(c) Measure the resistance between terminals DSL and E1.
OK:
Resistance: 11 – 13 Ω at 20 °C (68 °F)

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR(See page 01–31)**

OK

CHECK AND REPLACE ECM(See page 01–31)

4 INSPECT SHIFT SOLENOID VALVE DSL



(a) Remove the shift solenoid valve DSL.
(b) Measure the resistance between the terminal DSL of shift solenoid valve and the solenoid body.
OK:
Resistance: 11 – 13 Ω at 20 °C (68 °F)
(c) Connect positive (+) lead to the terminal of solenoid connector, negative (–) lead to the solenoid body.
OK:
The solenoid makes an operating noise.

OK → **REPAIR OR REPLACE TRANSMISSION WIRE(See page 01–31)**

NG

REPLACE SHIFT SOLENOID VALVE DSL