

DTC	P0773/64	Shift Solenoid E Electrical Malfunction (SL Solenoid Valve)
------------	-----------------	--

CIRCUIT DESCRIPTION

The SL solenoid valve is turned ON and OFF by signals from the Engine and ECT ECU (2UZ-FE, 1FZ-FE) or ECT ECU (1HZ, 1HD-T, 1HD-FTE) to control the hydraulic pressure acting on the lock-up relay valve, which then controls operation of the lock-up clutch.

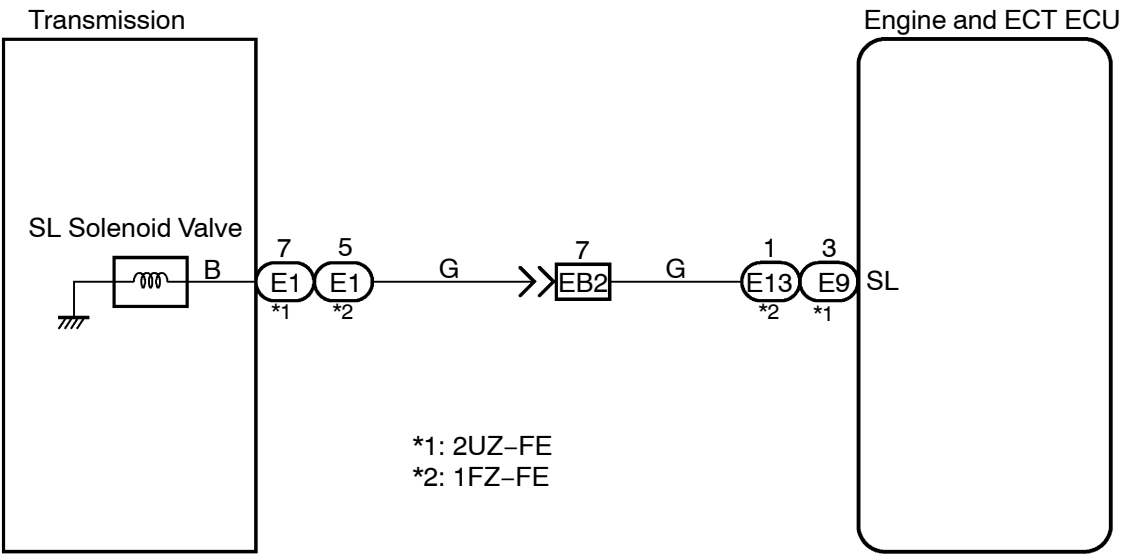
DTC No.	DTC Detecting Condition	Trouble Area
P0773/64	Either (a) or (b) is detected for 1 time. (a) Solenoid resistance is 8 Ω or less (short circuit) when the solenoid is energized. (b) Solenoid resistance is 100 kΩ or more (open circuit) when the solenoid is not energized.	• Open or short in SL solenoid valve circuit • SL solenoid valve • Engine and ECT ECU (2UZ-FE, 1FZ-FE) • ECT ECU (1HZ, 1HD-T, 1HD-FTE)

Fail safe function

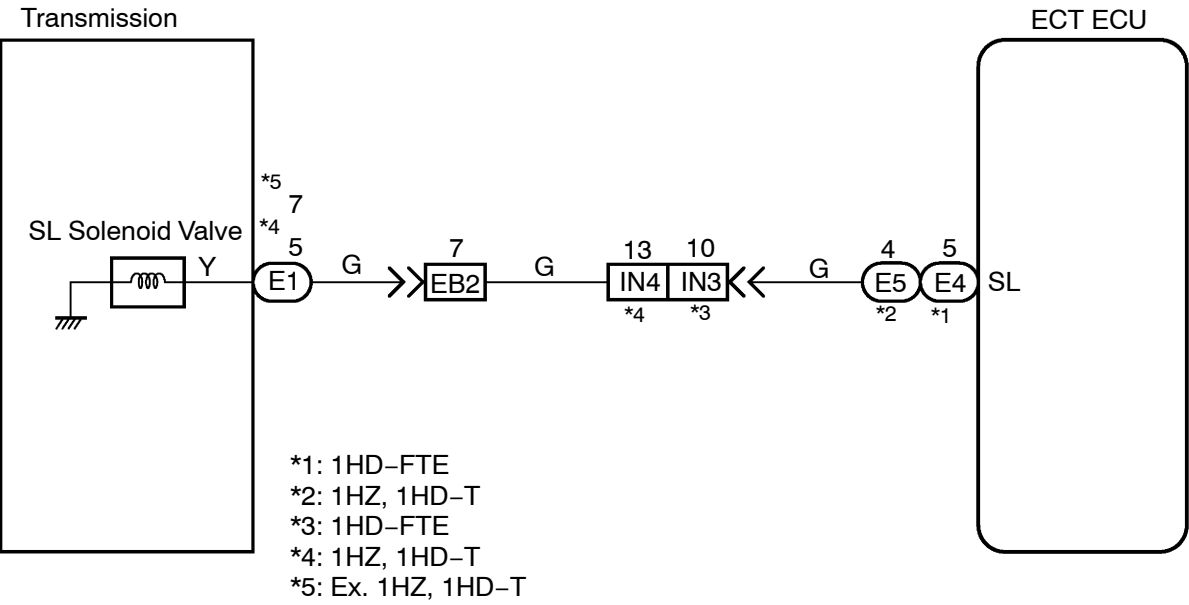
If the Engine and ECT ECU or ECT ECU detects a malfunction, it turns the SL solenoid valve OFF.

WIRING DIAGRAM

1FZ-FE, 2UZ-FE



1HZ, 1HD-T, 1HD-FTE

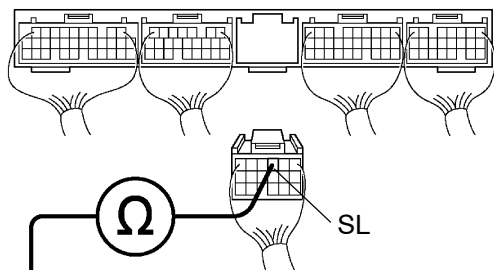
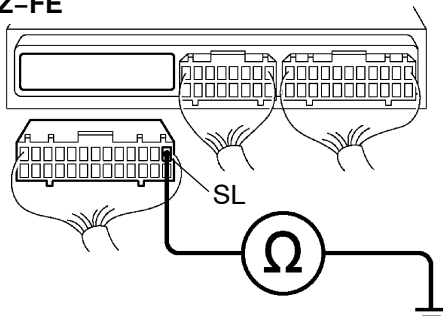
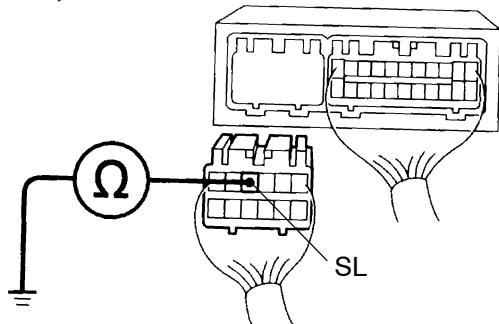
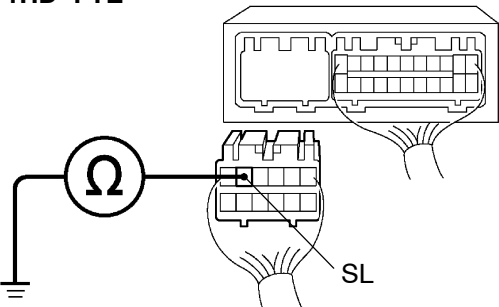


D03967
D03968

D03979

INSPECTION PROCEDURE

- | | |
|---|---|
| 1 | Measure resistance between terminal SL of Engine and ECT ECU or ECT ECU and body ground. |
|---|---|

2UZ-FE**1FZ-FE****1HZ, 1HD-T****1HD-FTE**

D01658
D03301
Q11272
D03257

D03313

PREPARATION:

- (a) Remove the glove compartment door
(See page [BO-127](#)).
- (b) Disconnect the connector from Engine and ECT ECU or ECT ECU.

CHECK:

Measure resistance between terminal SL of Engine and ECT ECU or ECT ECU and body ground.

OK:

Resistance: 11 – 15 Ω at 20 °C (68 °F)

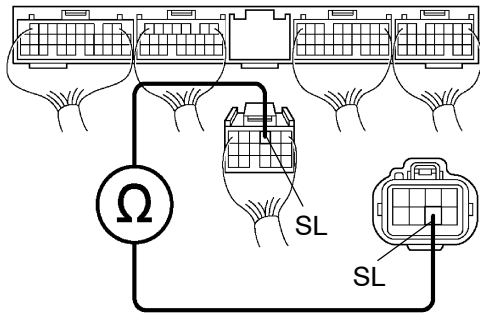
OK

Check and replace the Engine and ECT ECU or ECT ECU ([See page IN-35](#)).

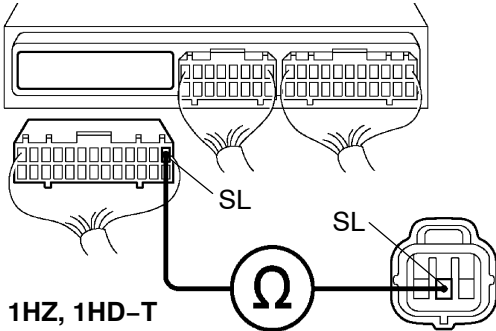
NG

2 Check harness and connector between Engine and ECT ECU or ECT ECU and automatic transmission solenoid connector.

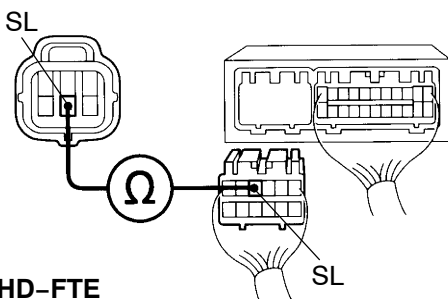
2UZ-FE



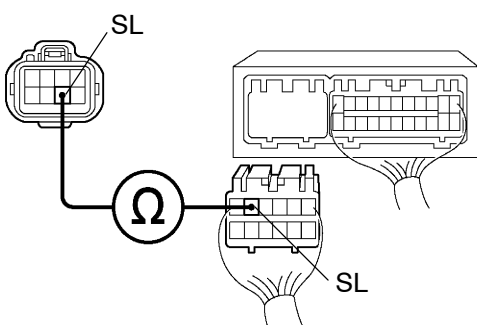
1FZ-FE



1HZ, 1HD-T



1HD-FTE



D01667
D03295
Q11273
D03258
D02928

D03314

PREPARATION:

Disconnect the solenoid connector from the transmission.

CHECK:

Check the harness between terminal SL of Engine and ECT ECU or ECT ECU and terminal SL of transmission solenoid connector.

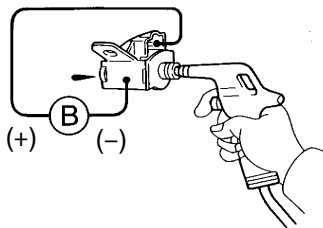
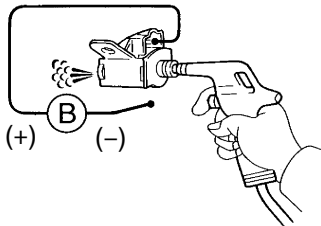
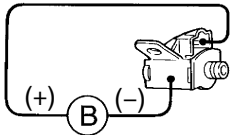
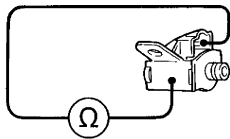
OK:

There is no open or short circuit.

NG

Repair or replace the harness or connector.

OK

3 Check SL solenoid valve.

D03366

Electrical Check:**PREPARATION:**

- (a) Jack up the vehicle.
- (b) Remove the oil pan.
- (c) Disconnect the solenoid connector.
- (d) Remove the SL solenoid valve.

CHECK:

- (a) Measure resistance between terminal SL of solenoid valve and solenoid body.
- (b) Connect positive $\oplus$ lead of the battery to terminal of solenoid connector, negative $\ominus$ lead of the battery to solenoid body.

OK:

- (a) Resistance: 11 – 15 Ω at 20 °C (68 °F)
- (b) The SL solenoid valve makes operating noise.

Mechanical Check:**PREPARATION:**

- (a) Jack up the vehicle.
- (b) Remove the oil pan.
- (c) Disconnect the solenoid connector.
- (d) Remove the SL solenoid valve.

CHECK:

- (a) Applying 490 kPa (5 kgf/cm², 71 psi) of compressed air, check that the solenoid valve opens.
- (b) When battery positive voltage is supplied to the solenoid valve, check that the solenoid valve does not leak air.

OK:

- (a) Solenoid valve opens
- (b) Solenoid valve does not leak air

NG

Replace the SL solenoid valve.

OK

Repair or replace the solenoid wire.