

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

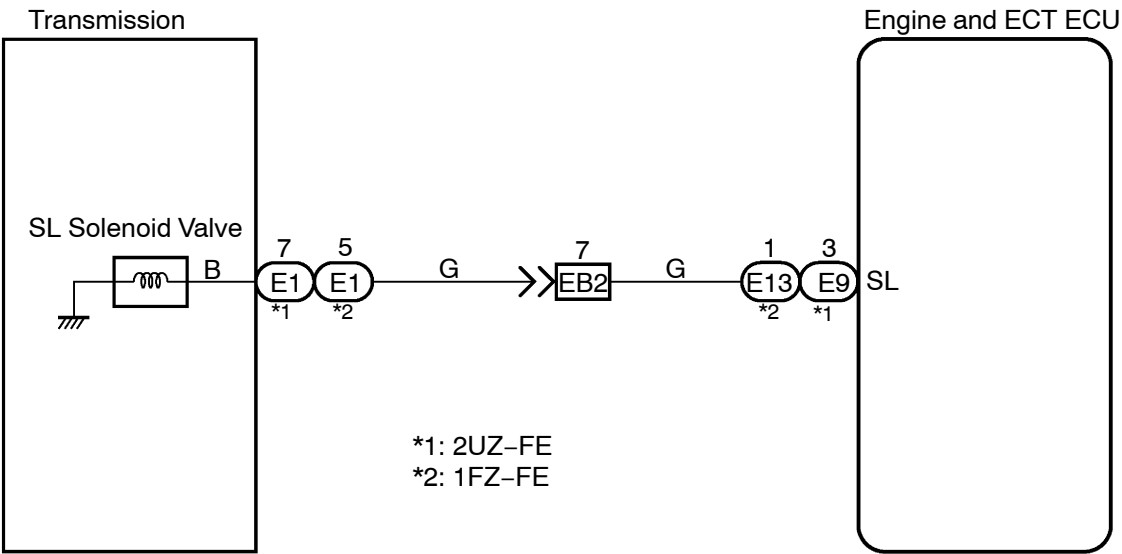
DTC No.	DTC Detecting Condition	Trouble Area
P0773/64	Either (a) or (b) is detected for 1 time. (a) Solenoid resistance is 8 Ω or less (short circuit) when the solenoid is energized. (b) Solenoid resistance is 100 k Ω or more (open circuit) when the solenoid is not energized.	<ul style="list-style-type: none"> • 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

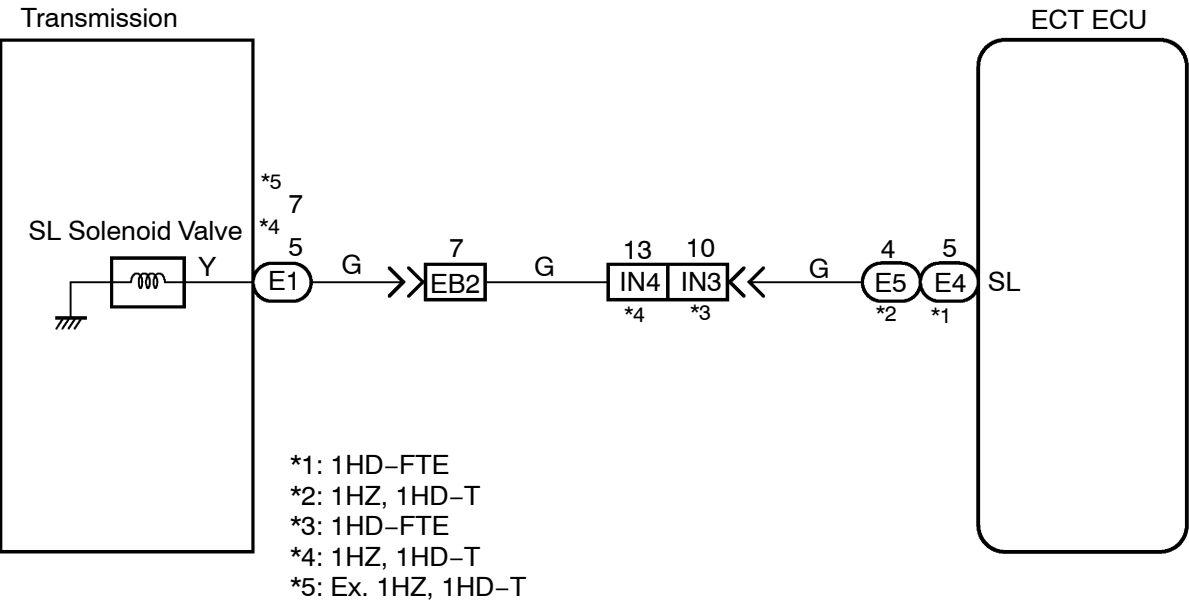
If the Engine and ECT ECU or ECT ECU detects a malfunction, it turns the SL solenoid valve OFF.

WIRING DIAGRAM

1FZ-FE, 2UZ-FE



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



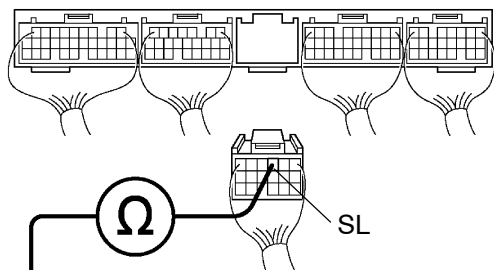
D03967
D03968

D03979

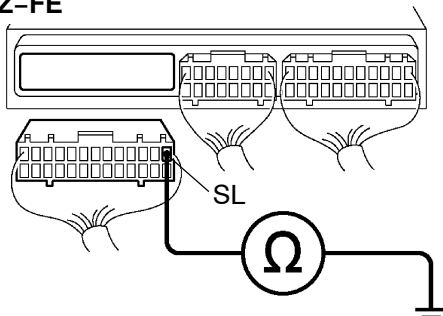
INSPECTION PROCEDURE

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

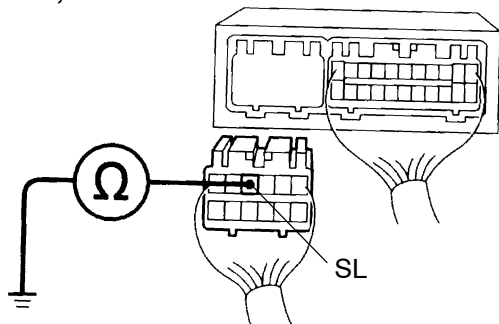
2UZ-FE



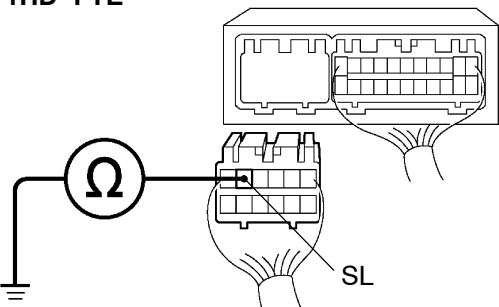
1FZ-FE



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)

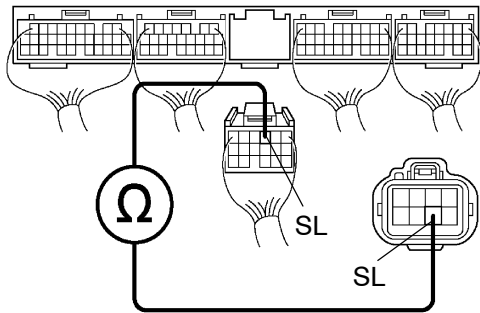
OK

Check and replace the Engine and ECT ECU (See page IN-35).

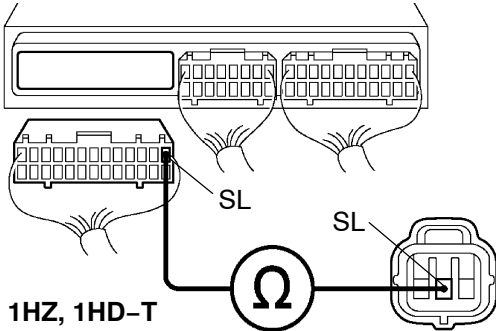
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2 Check harness and connector between Engine and ECT ECU or ECT ECU and automatic transmission solenoid connector.

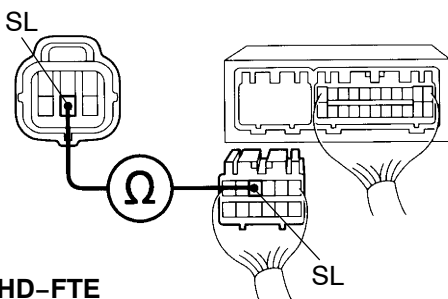
2UZ-FE



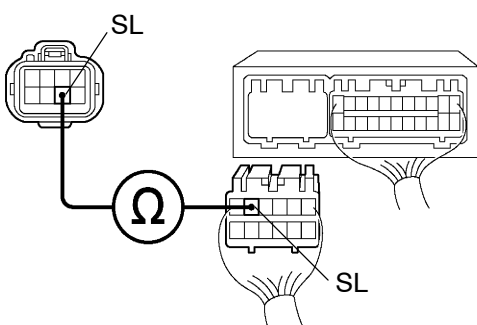
1FZ-FE



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.

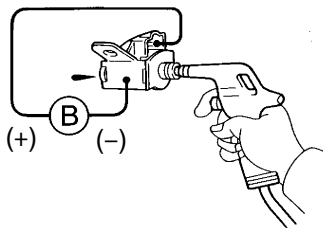
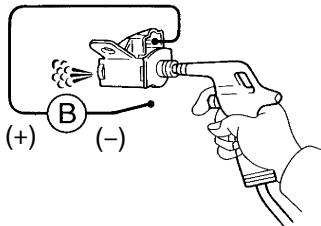
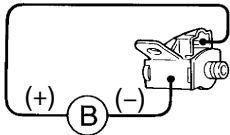
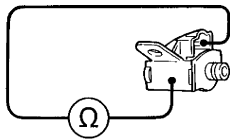
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Repair or replace the harness or connector.

OK

3

Check SL solenoid valve.



D03366

Electrical Check:**PREPARATION:**

- Jack up the vehicle.
- Remove the oil pan.
- Disconnect the solenoid connector.
- Remove the SL solenoid valve.

CHECK:

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

OK:

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

Mechanical Check:**PREPARATION:**

- Jack up the vehicle.
- Remove the oil pan.
- Disconnect the solenoid connector.
- Remove the SL solenoid valve.

CHECK:

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

OK:

- Solenoid valve opens
- Solenoid valve does not leak air

NG

Replace the SL solenoid valve.

OK

Repair or replace the solenoid wire.