

DTC	64	Lock-up Solenoid Valve Circuit
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CIRCUIT DESCRIPTION

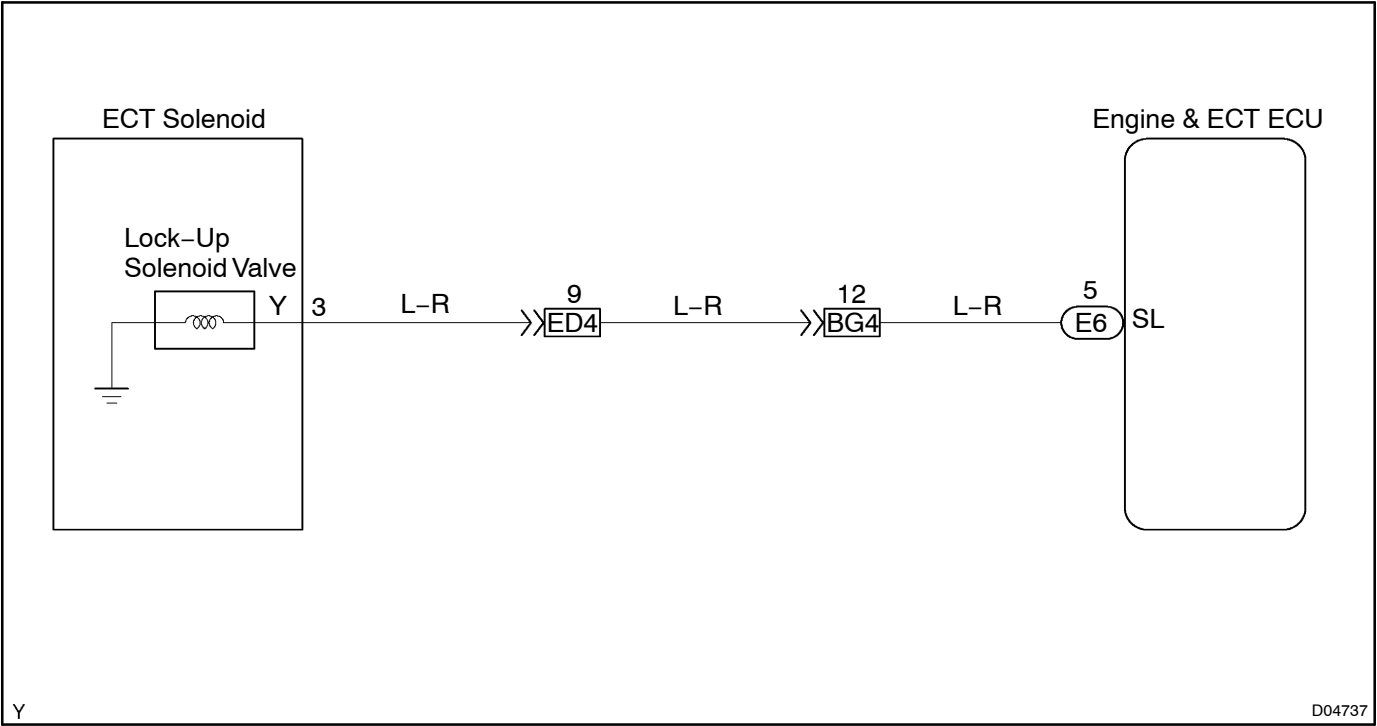
The lock-up solenoid valve is turned ON and OFF by signals from the Engine & ECT ECU to control the hydraulic pressure acting on the lock-up relay valve, which then controls operation of the lock-up clutch.

DTC No.	DTC Detecting Condition	Trouble Area
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.	<ul style="list-style-type: none">• Open or short in lock-up solenoid valve circuit• Lock-up solenoid valve• Engine & ECT ECU

Fail safe function:

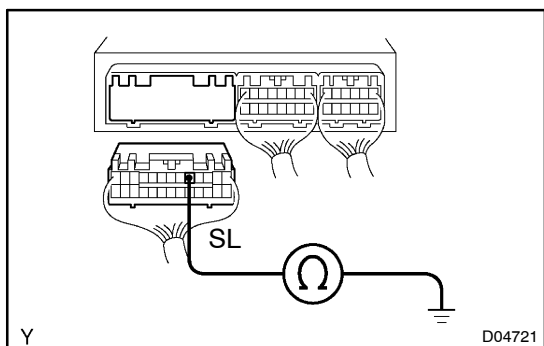
If the Engine & ECT ECU detects a malfunction, it turns the lock-up solenoid valve OFF.

WIRING DIAGRAM



INSPECTION PROCEDURE

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

**PREPARATION:**

Disconnect the connector from the Engine & ECT ECU.

CHECK:

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

OK:

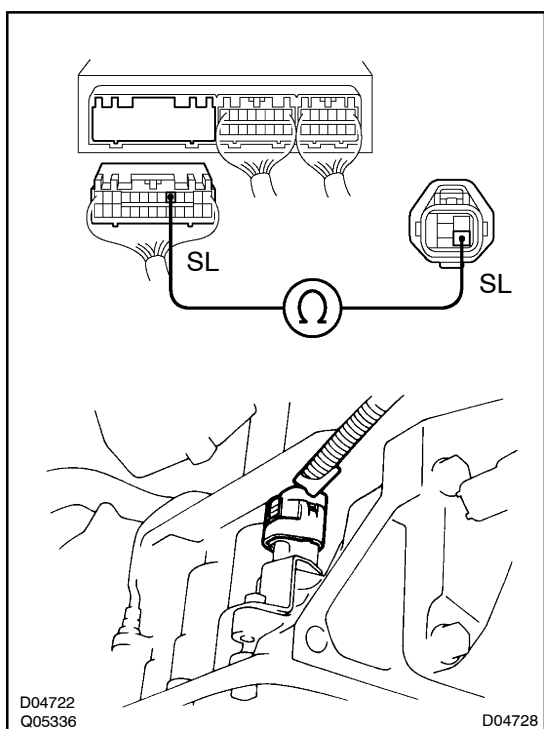
Resistance: 11 – 15 Ω at 20°C (68°F)

OK

Check and replace the Engine & ECT ECU (See page IN-30).

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- 2 Check harness and connector between Engine & ECT ECU and automatic transmission solenoid connector (See page IN-30).

**PREPARATION:**

Disconnect the solenoid connector from the transmission.

CHECK:

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

OK:

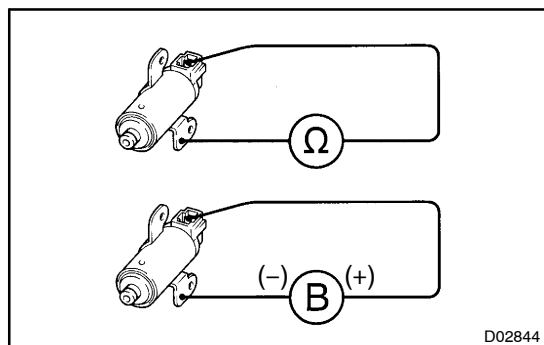
There is no open or short circuit.

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Repair or replace the harness or connector.

OK

3 Check lock-up solenoid valve.



Electrical Check:

PREPARATION:

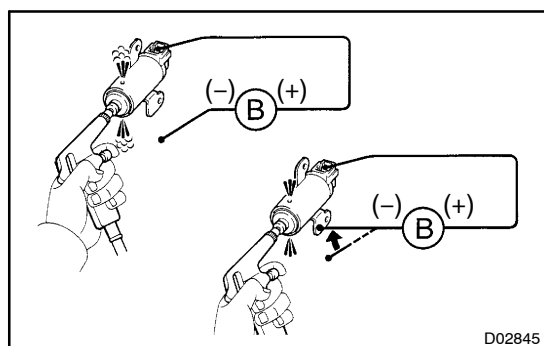
- Jack up the vehicle.
- Remove the oil pan.
- Disconnect the solenoid connector.
- Remove the lock-up solenoid valve.

CHECK:

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

OK:

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



Mechanical Check:

PREPARATION:

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

CHECK:

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

OK:

- Solenoid valve does not leak air**
- Solenoid valve opens**

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Replace the lock-up solenoid valve.

OK

Repair or replace the solenoid wire.