

<b>DTC</b>	<b>P0773</b>	<b>Shift Solenoid "E" Electrical Malfunction (Shift Solenoid Valve SL)</b>
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## CIRCUIT DESCRIPTION

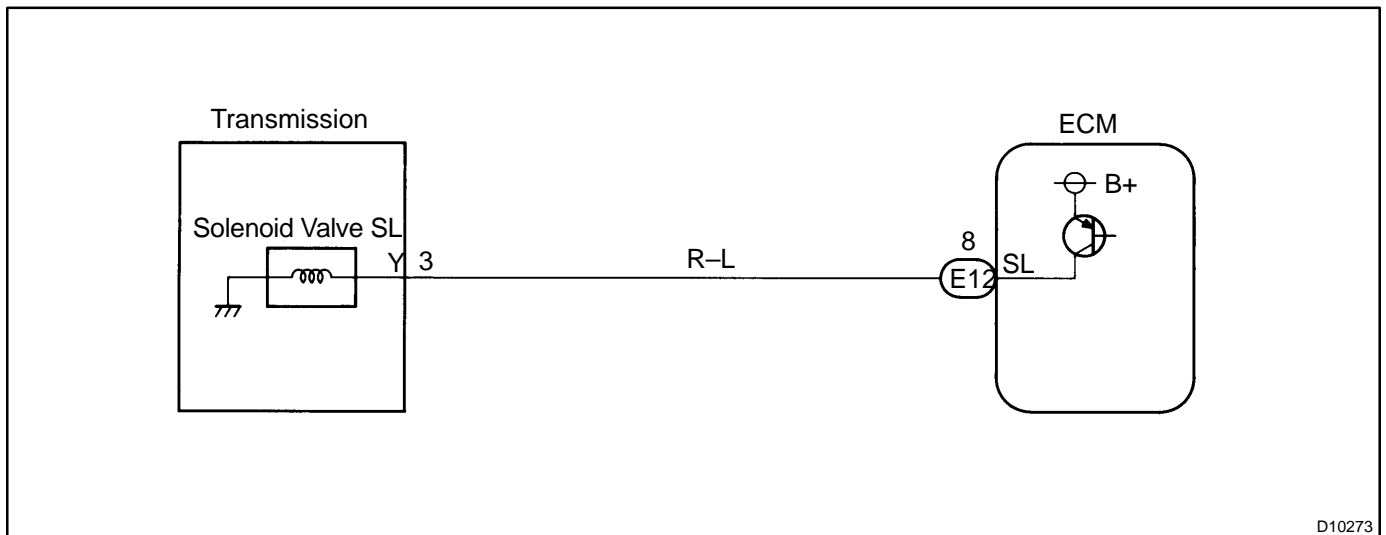
The shift solenoid valve SL is turned ON and OFF by signals from the ECM to control the hydraulic pressure acting on the lock-up relay valve, which then controls operation of the lock-up clutch.

Fail safe function:

If the ECM detects a malfunction, it turns the shift solenoid valve SL OFF.

DTC No.	DTC Detecting Condition	Trouble Area
P0773	Either (a) or (b) are detected for 1 time. (2 trip detection logic) (a) Solenoid resistance is 8 $\Omega$ or less short circuit when solenoid is energized. (b) Solenoid resistance is 100 k $\Omega$ or more open circuit when solenoid is not energized.	<ul style="list-style-type: none"> <li>• Open or short in shift solenoid valve SL circuit</li> <li>• Shift solenoid valve SL</li> <li>• ECM</li> </ul>

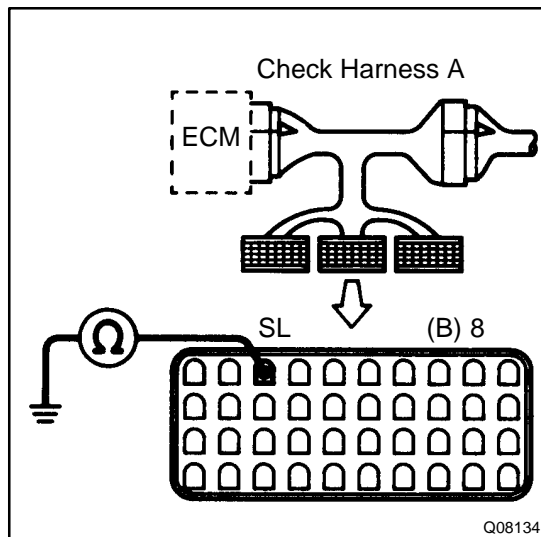
## WIRING DIAGRAM



D10273

## INSPECTION PROCEDURE

## 1 Measure resistance between terminal SL of ECM and body ground.

**PREPARATION:**

- (a) Disconnect the connector from ECM.
- (b) Connect the check harness A to the harness side connector.

**NOTICE:**

**Do not connect the check harness A to ECM.**

**CHECK:**

Measure resistance between terminal SL of check harness A connector and body ground.

**OK:**

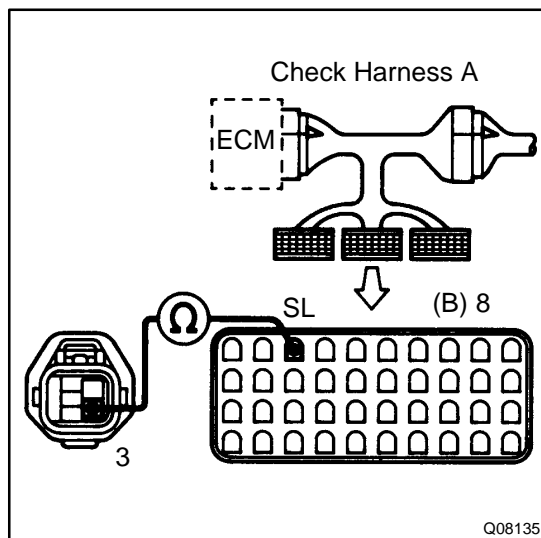
**Resistance: 11 – 15  $\Omega$**

OK

**Check and replace ECM.**

NG

## 2 Check harness and connector between ECM and automatic transmission solenoid connector.

**PREPARATION:**

- (a) Disconnect the connector from ECM.
- (b) Connect the check harness A to the harness side connector.
- (c) Disconnect the solenoid connector from automatic transmission.

**NOTICE:**

**Do not connect the check harness A to ECM.**

**CHECK:**

Check harness and connector between terminal SL of check harness A connector and terminal 3 of solenoid connector.

**OK:**

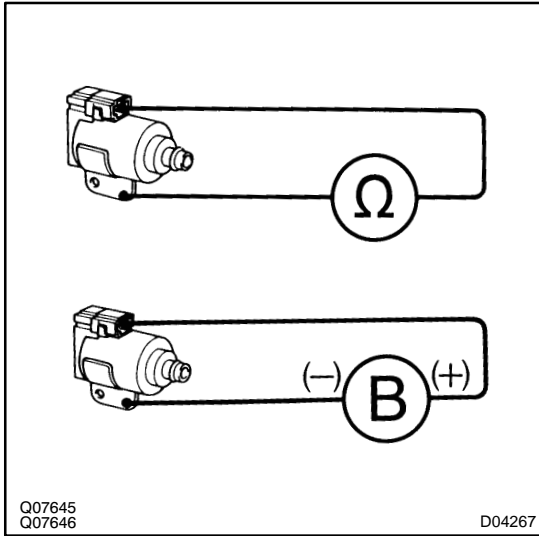
**There is no open or short circuit.**

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**Repair or replace harness or connector.**

OK

### 3 Check shift solenoid valve SL.



#### **PREPARATION:**

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

#### **CHECK:**

Measure resistance between solenoid connector and solenoid body.

#### **OK:**

**Resistance: 11 – 15 Ω**

#### **CHECK:**

Connect positive ⊕ lead to terminal of solenoid connector, negative ⊖ lead to solenoid body.

#### **OK:**

**The solenoid makes operation noise.**

**NG**

**Replace shift solenoid valve SL.**

**OK**

**Check and replace or repair the solenoid wire.**