

<b>DTC</b>	<b>P0770</b>	<b>Shift Solenoid "E" Malfunction (Shift Solenoid Valve SLU)</b>
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## SYSTEM DESCRIPTION

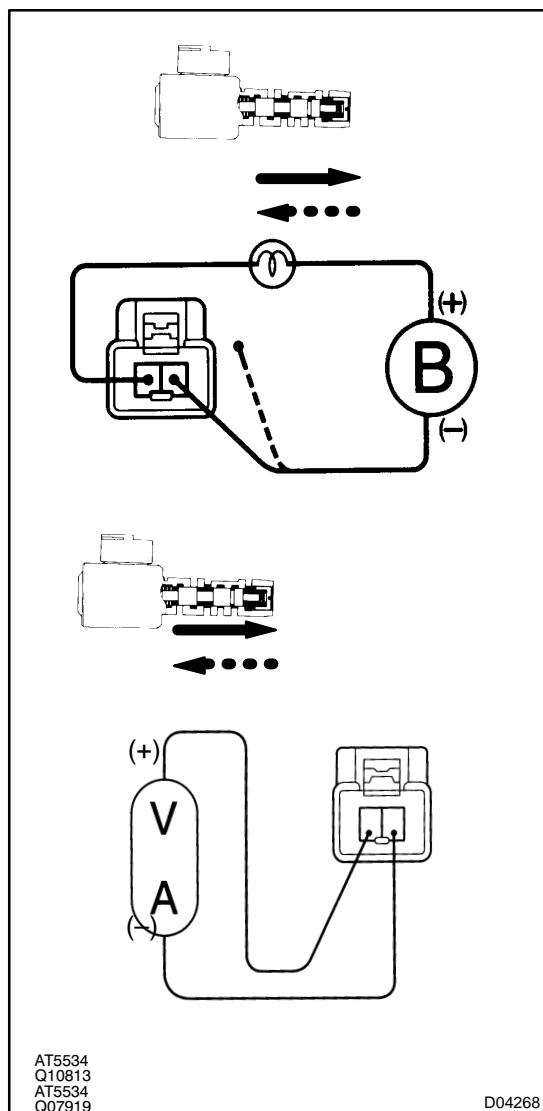
The ECM uses signals from the NCO revolution sensor and crankshaft position sensor to monitor the engagement condition of the lock-up clutch.

Then the ECM compares the engagement condition of the lock-up clutch with the lock-up schedule in the ECM memory to detect mechanical trouble of the shift solenoid valve SLU valve body and torque converter clutch.

DTC No.	DTC Detecting Condition	Trouble Area
P0770	Lock-up does not occur when driving in the lock-up range (normal driving at 80 km/h (50 mph)) or lock-up remains ON in the lock-up OFF range (2 trip detection logic)	<ul style="list-style-type: none"> <li>• Shift solenoid valve SLU is stuck open or closed</li> <li>• Valve body blocked up or stuck</li> <li>• Lock-up clutch</li> </ul>

## INSPECTION PROCEDURE

## 1 Check solenoid valve SLU operation.

**CHECK:**

Connect positive  $\oplus$  lead with an 8 – 10 W bulb to terminal 1 of solenoid connector and negative  $\ominus$  lead to terminal 2, then check the movement of the valve.

**OK:**

When battery positive voltage is applied.	Valve moves in $\rightarrow$ direction in illustration at left.
When battery positive voltage is cut off.	Valve moves in $\leftarrow$ direction in illustration at left.

**Reference: Check solenoid operation****CHECK:**

- Prepare a variable power supply.
- Connect positive  $\oplus$  lead of the variable power supply to terminal 1 of solenoid connector and negative  $\ominus$  lead to terminal 2.
- Check the movement of the valve when the voltage is gradually increased (A current greater than 1 A should not be supplied.).

**OK:**

As the voltage is increased, the valve should move slowly in the  $\rightarrow$  direction.

**CHECK:**

Check the movement of the valve when the voltage is cut off.

**OK:**

The valve should return in the  $\leftarrow$  direction.

**NG****Replace solenoid valve SLU.****OK**2 Check valve body (See page [DI-366](#)).**NG****Repair or replace valve body.****OK****Replace torque converter clutch.**