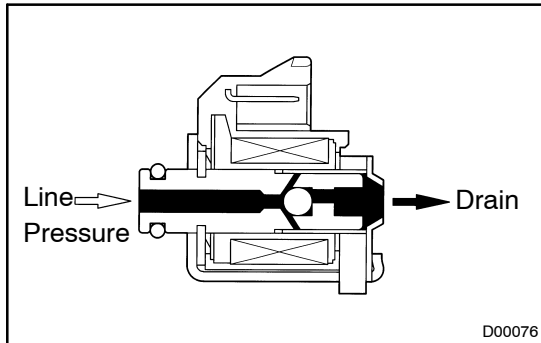


|            |              |                                                                   |
|------------|--------------|-------------------------------------------------------------------|
| <b>DTC</b> | <b>P0770</b> | <b>Shift Solenoid E Malfunction<br/>(Shift Solenoid Valve SL)</b> |
|------------|--------------|-------------------------------------------------------------------|



### SYSTEM DESCRIPTION

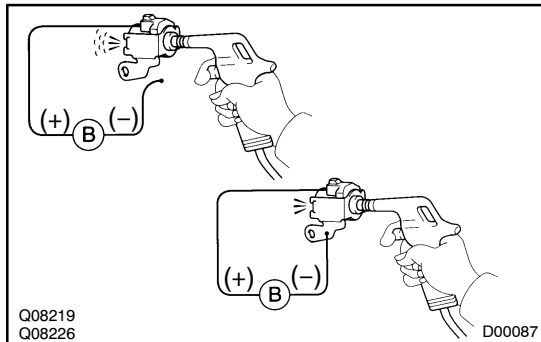
The ECM uses the signals from the throttle position sensor, air-flow meter and crankshaft position sensor to monitor the engagement condition of the lock-up clutch.

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 SL, 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.<br>(2-trip detection logic) | <ul style="list-style-type: none"> <li>• Shift solenoid valve SL is stuck open or closed</li> <li>• Valve body blocked up or stuck</li> <li>• Lock-up clutch</li> </ul> |

### INSPECTION PROCEDURE

|          |                                           |
|----------|-------------------------------------------|
| <b>1</b> | <b>Check solenoid valve SL operation.</b> |
|----------|-------------------------------------------|



#### PREPARATION:

- Remove the oil pan.
- Remove the shift solenoid valve SL.

#### CHECK:

- Applying 490 kPa (5 kgf/cm<sup>2</sup>, 71 psi) of compressed air, check that the solenoid valve opens.
- When battery voltage is supplied to the shift solenoid valve, check that the solenoid valve does not leak air.

#### OK:

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

**NG**

**Replace the solenoid valve SL.**

**OK**

|   |                                                      |
|---|------------------------------------------------------|
| 2 | Check valve body (See page <a href="#">DI-161</a> ). |
|---|------------------------------------------------------|

**NG****Repair or replace the valve body.****OK****Replace the torque converter clutch  
(See page [AT-27](#)).**