

DTC	P0773	Shift Solenoid E Electrical Malfunction (Shift Solenoid Valve SLU)
------------	--------------	-------------------------------------------------------------------------------

CIRCUIT DESCRIPTION

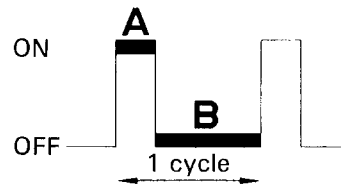
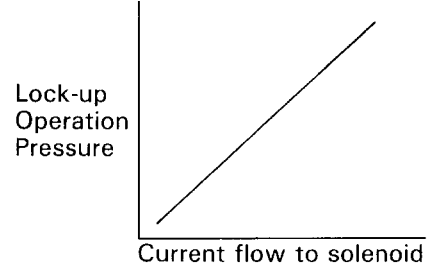
The amount of current flow to the solenoid is controlled by the (*) duty ratio of the ECM output signal. The higher the duty ratio becomes, the higher the lock-up hydraulic pressure becomes during the lock-up operation.

(*) Duty Ratio

The duty ratio is the ratio of the period of continuity in one cycle. For example, if A is the period of continuity in one cycle, and B is the period of non-continuity, then

(*)

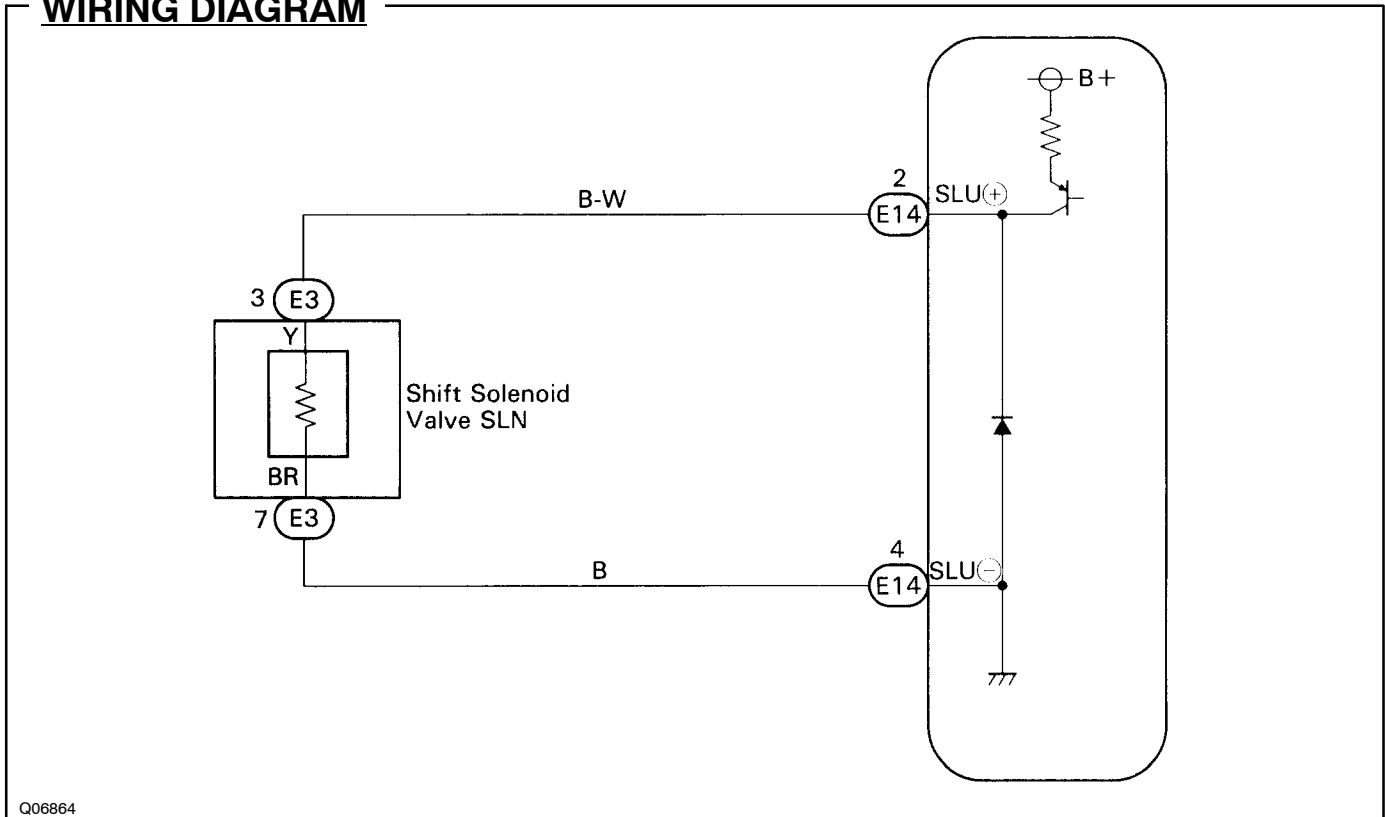
$$\text{Duty Ratio} = \frac{A}{A+B} \times 100 (\%)$$



BE4056

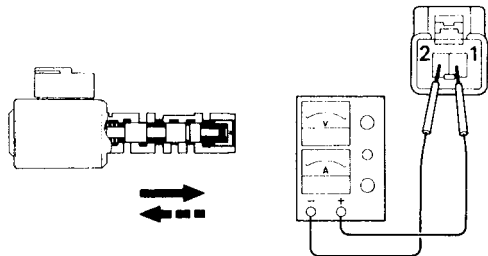
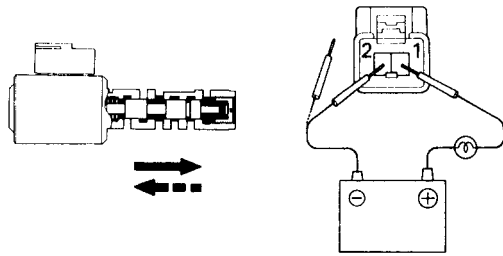
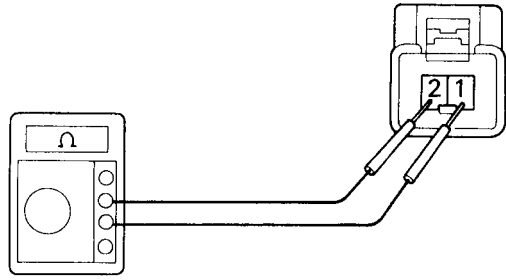
DTC No.	DTC Detecting Condition	Trouble Area
P0773	Either a) or b) is detected. (2 trip detection logic) a) SLU output signal's duty ON of 3.3 msec. or more with duty ratio of at least 95% lasts for 1 second b) MIL lights up	<ul style="list-style-type: none"> • Shift solenoid valve SLU • Harness or connector between shift solenoid valve SLU and ECM • ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check shift solenoid valve SLU.



AT5533
AT5534 AT5535
AT5534 AT5536

Check solenoid resistance

- P** 1. Jack up the vehicle.
- 2. Remove oil pan.
- C** 1. Disconnect solenoid connector.
- 2. Measure resistance between terminals 1 and 2 of solenoid connector.

OK Resistance: 7.5 ~ 8.5 Ω

Check solenoid resistance

- C** Connect positive ⊕ lead with an 8 – 10 W bulb to terminal 1 of solenoid connector and negative ⊖ lead to terminal 2, then check the movement of the valve.

OK When battery positive voltage is applied.	Valve moves in → direction in illustration at left.
When battery positive voltage is cut off.	Valve moves in ← direction in illustration at left.

Reference

Check solenoid operation

- C** 1. Prepare a variable power supply.
- 2. Connect positive ⊕ lead of the variable power supply to terminal 1 of solenoid connector and negative ⊖ lead to terminal 2
- 3. 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 **→** direction.

- C** 4. Measure resistance between terminals 1 and 2 of solenoid connector.

OK The valve should return in the **←** direction.

OK

NG

Replace shift solenoid valve SLU.

Go to step 2.

2**Check harness and connector between shift solenoid valve SLU and ECM (See page [IN-29](#)).****OK****NG****Repair or replace harness or connector.**

Proceed to next circuit inspection shown on matrix chart (See page [AT-62](#)). However, when DTC P0773 is displayed, check and replace ECM.