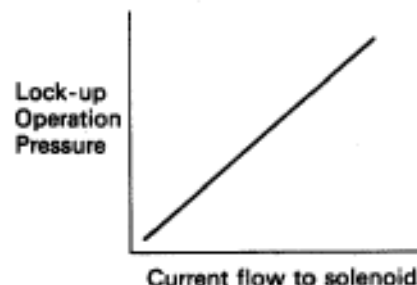


Diag. Code	64	No. 3 Solenoid Valve Circuit (For Lock-up Control Pressure Modulation)
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— CIRCUIT DESCRIPTION —

The No. 3 solenoid valve is provided for lock-up operations. The lock-up operation pressure is controlled by the linear solenoid for smooth engagement.

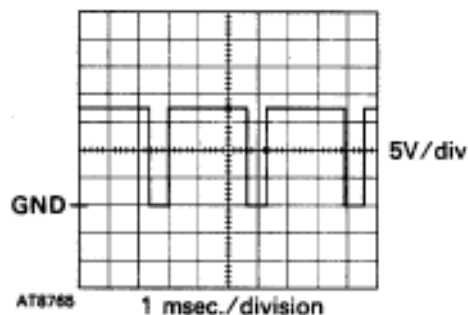
The amount of current flow to the solenoid is controlled by the duty ratio (See page AT-80) of Engine & ECT ECU output signal. The higher the duty ratio becomes, the higher the lockup hydraulic pressure becomes during the lock-up operation. If the malfunction occurs in this circuit and diagnostic code 64 is stored in memory, the O/D OFF indicator light does not blink.



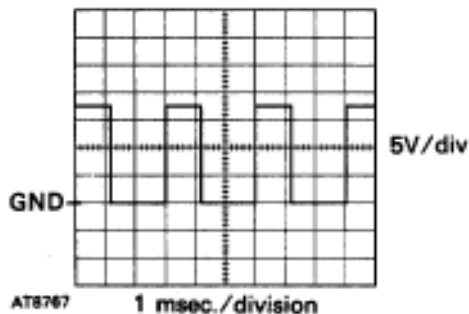
Code No.	Diagnostic Code Detecting Condition	Trouble Area
64	<p>All conditions below are detected for 1 sec. or more. (2 trip detection logic)*</p> <p>(a) ECU outputs duty signal to No. 3 solenoid in 90 % or higher duty ratio.</p> <p>(b) Current to No. 3 solenoid: 450 ± 100 mA or less.</p>	<ul style="list-style-type: none"> • No. 3 solenoid valve. • Harness or connector between No. 3 solenoid valve and ECU. • ECU

*: See page AT-62

< Reference >

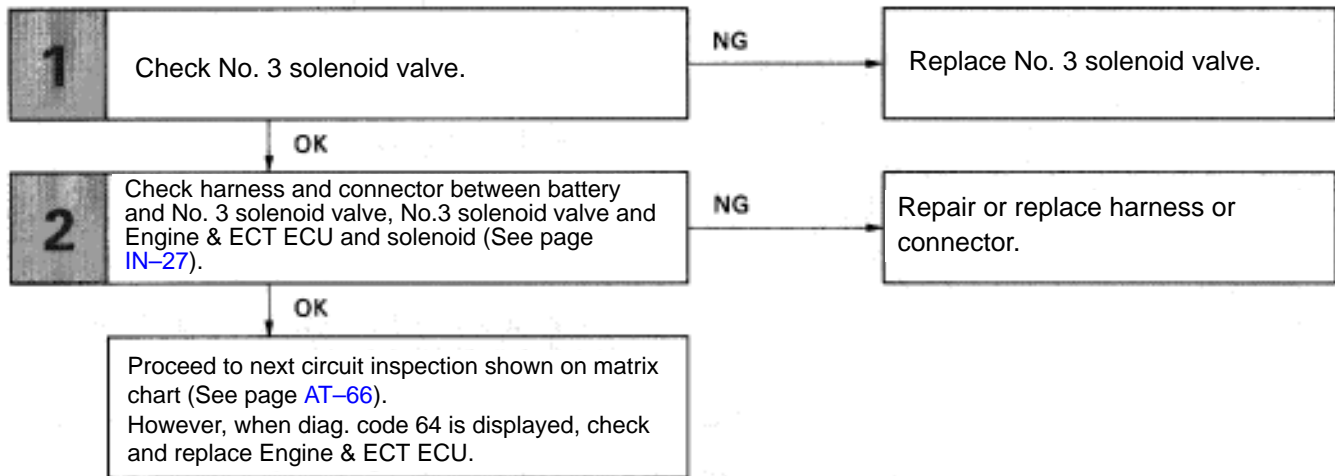


- Waveform between terminals SLU- and E1 when lock-up function is not operated.

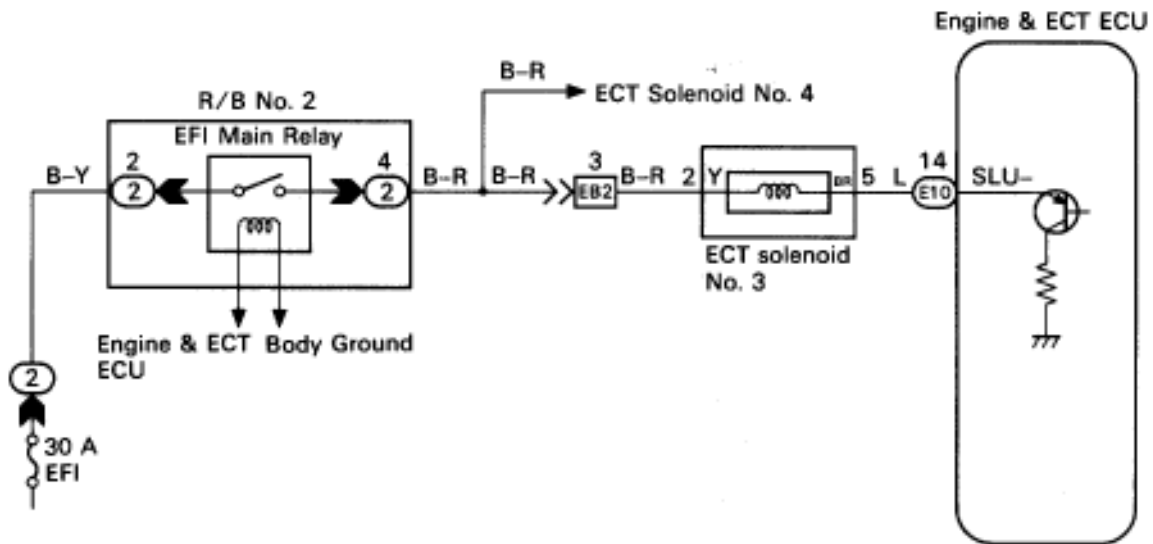


- Waveform between terminals SLU- and E1 when lock-up function is operating.

DIAGNOSTIC CHART



WIRING DIAGRAM

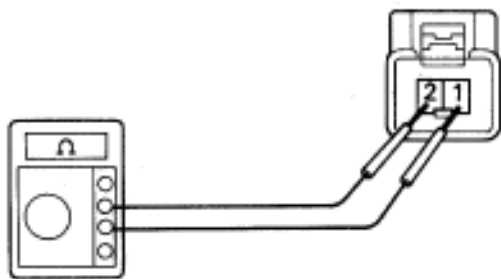


AT8776

INSPECTION PROCEDURE

1

Check No. 3 solenoid valve.

Check solenoid resistance

- P** 1. Jack up the vehicle.
2. Remove oil pan.
3. Disconnect the connector
- C** Measure resistance between terminals 1 and 2 of solenoid connector.
- OK** **Resistance:** 3.5 – 3.9 Ω

Check solenoid operation

- C** Connect positive \oplus lead with and 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 voltage is applied	Valve moves in direction in illustration at left.
When battery 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 \oplus lead of the variable power supply to terminal 1 of solenoid connector and negative \ominus 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 increase, the valve should move slowly in the direction.**
- C** 4. Check the movement of the valve when the voltage is cut off.
- OK** **The valve should return in the direction**

AT5633
AT5634 AT5635
AT5634 AT5636

OK

NG

Replace No. 3 solenoid valve.

Go to step 2.

2

Check harness and connector between battery and No. 4 solenoid valve, No. 4 solenoid valve and Engine & ECT ECU (See page In- 27).

OK**NG**

Repair or replace harness or connector.

Proceed to next circuit inspection shown on matrix chart (See page [AT-66](#)). However, when diag. code 64 is displayed, check and replace Engine & ECT ECU.