

CIRCUIT INSPECTION

Diag. Code 11, 12 ABS Solenoid Relay Circuit

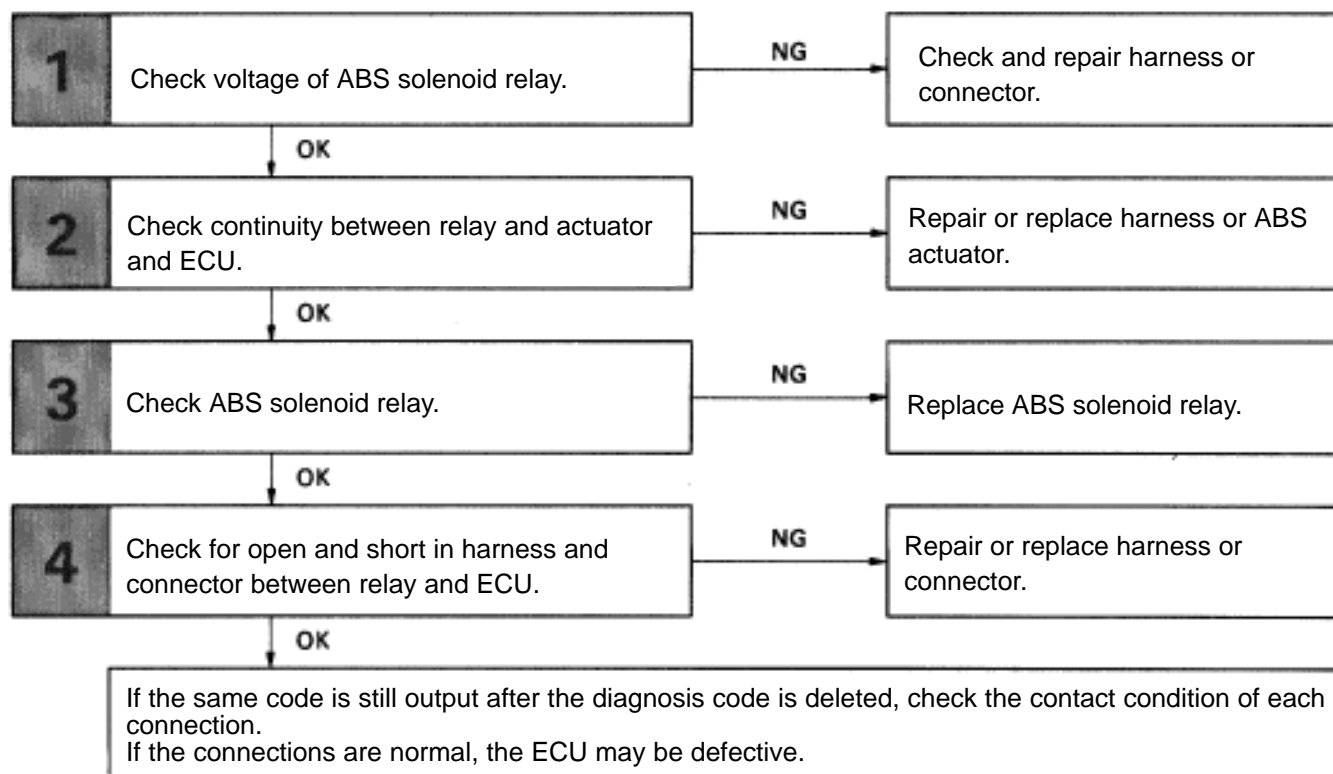
— CIRCUIT DESCRIPTION —

This relay supplies power to each ABS solenoid. After the ignition switch is turned on, if the initial check is OK, the relay goes on.

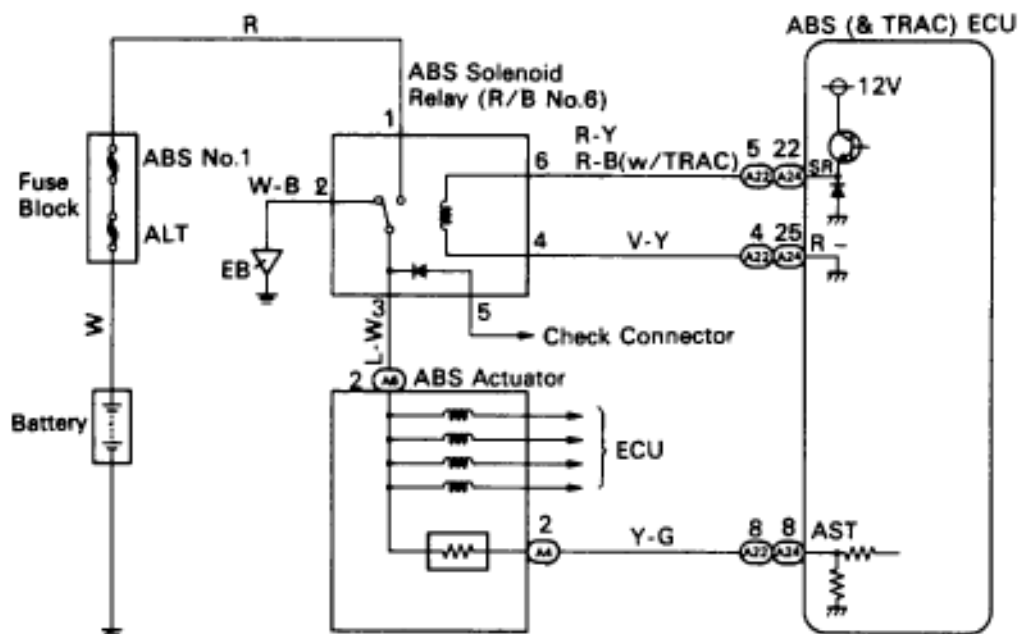
Code No.	Diagnostic Code Detecting Condition	Trouble Area
11	Conditions (1) and (2) continue for 0.2 sec. or more (1) ABS solenoid relay: ON (2) Solenoid relay monitor terminal voltage: OV	<ul style="list-style-type: none"> •ABS solenoid relay •Open or short in ABS solenoid relay circuit •ECU
12	Conditions (1) and (2) continue for 0.2 sec. or more (1) ABS solenoid relay: OFF (2) Solenoid relay monitor terminal voltage: Battery Voltage	<ul style="list-style-type: none"> •ABS solenoid relay •+B short in ABS solenoid relay circuit. •ECU

Fail safe function: If trouble occurs in the solenoid relay circuit, the ECU cuts off current to the solenoid relay and prohibits ABS control.

— DIAGNOSTIC CHART —



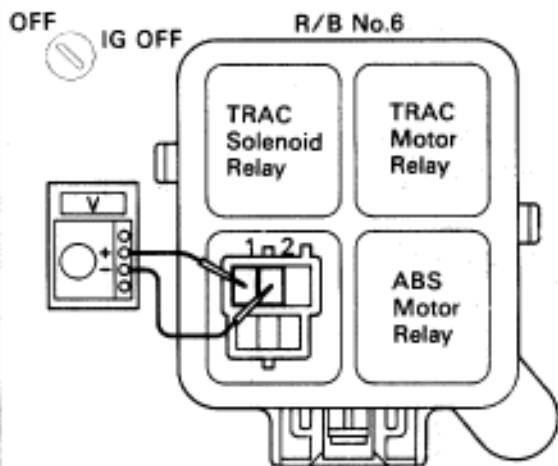
WIRING DIAGRAM



INSPECTION PROCEDURE

1

Check voltage between terminals 1 and 2 of R/B No.6 (for ABS solenoid relay).

B26653
BR5423

P

Remove ABS solenoid relay from R/B No.6.

C

Measure voltage between terminals 1 and 2 of R/B No.6 (for ABS solenoid relay).

OK

Voltage: 10 – 14V

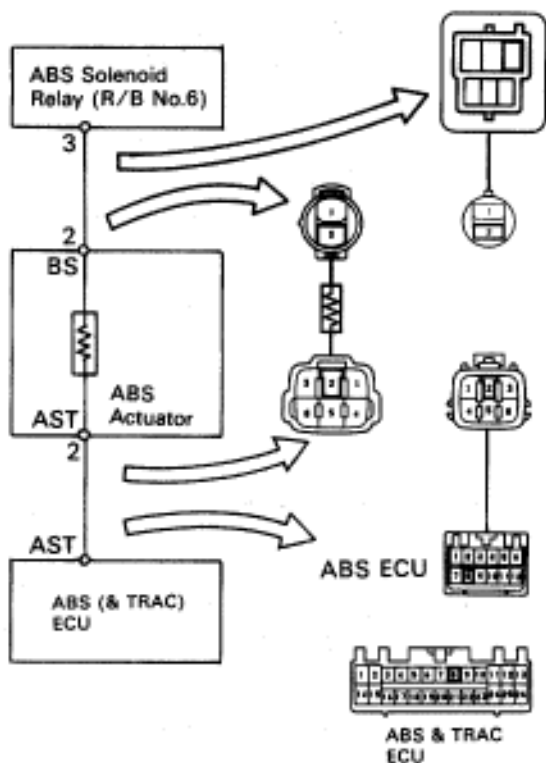
OK

NG

Check and repair harness or connector.

2

Check continuity between terminal 3 of R/B No.6 (for ABS solenoid relay) and terminal AST of ABS (& TRAC) ECU.



BR5369 BR5395

C

Check continuity between 3 of R/B No.6 (for ABS solenoid relay) and terminal AST of ABS (& TRAC) ECU.

OK

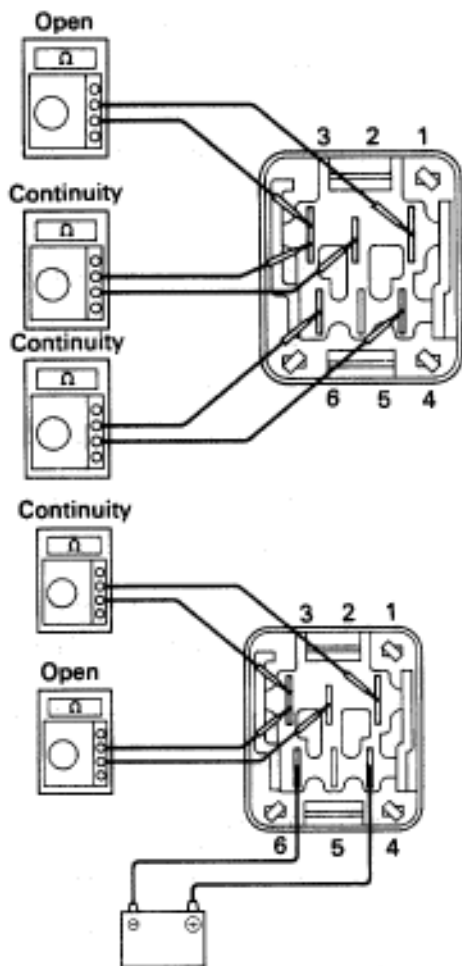
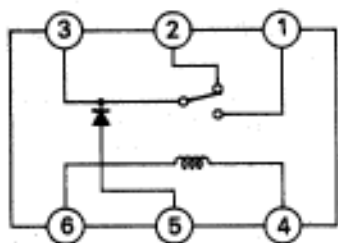
Continuity

HINT: There is a resistance of 4 ~ 6Ω between terminals BS and AST of ABS actuator

OK

NG

Repair or replace harness or ABS connector.

3**Check ABS solenoid relay.**BR5403
BR5404
BR5405

- P** Remove solenoid relay from R/B No.6.
- C** Check continuity between each terminal of ABS solenoid relay shown below.

OK

Terminals 4 and 6	Continuity (Reference value 80Ω)
Terminals 2 and 3	Continuity
Terminals 1 and 3	Open

- C**
1. Apply battery voltage between terminals 4 and 6.
 2. Check continuity between each terminal of ABS solenoid relay shown below.

OK

Terminals 2 and 3	Open
Terminals 1 and 3	Continuity

OK**NG**

Replace ABS solenoid relay.

4**Check for open and short in harness and connector between ABS solenoid relay and ABS (& TRAC) ECU (See page [IN-27](#)).****OK****NG**

Repair or replace harness or connector.

If the same code is still output after the diagnosis code is deleted, check the contact condition of each connection.

If the connections are normal, the ECU may be defective.