

## Diag. Code 15, 16 TRAC Solenoid Relay Circuit

### — CIRCUIT DESCRIPTION —

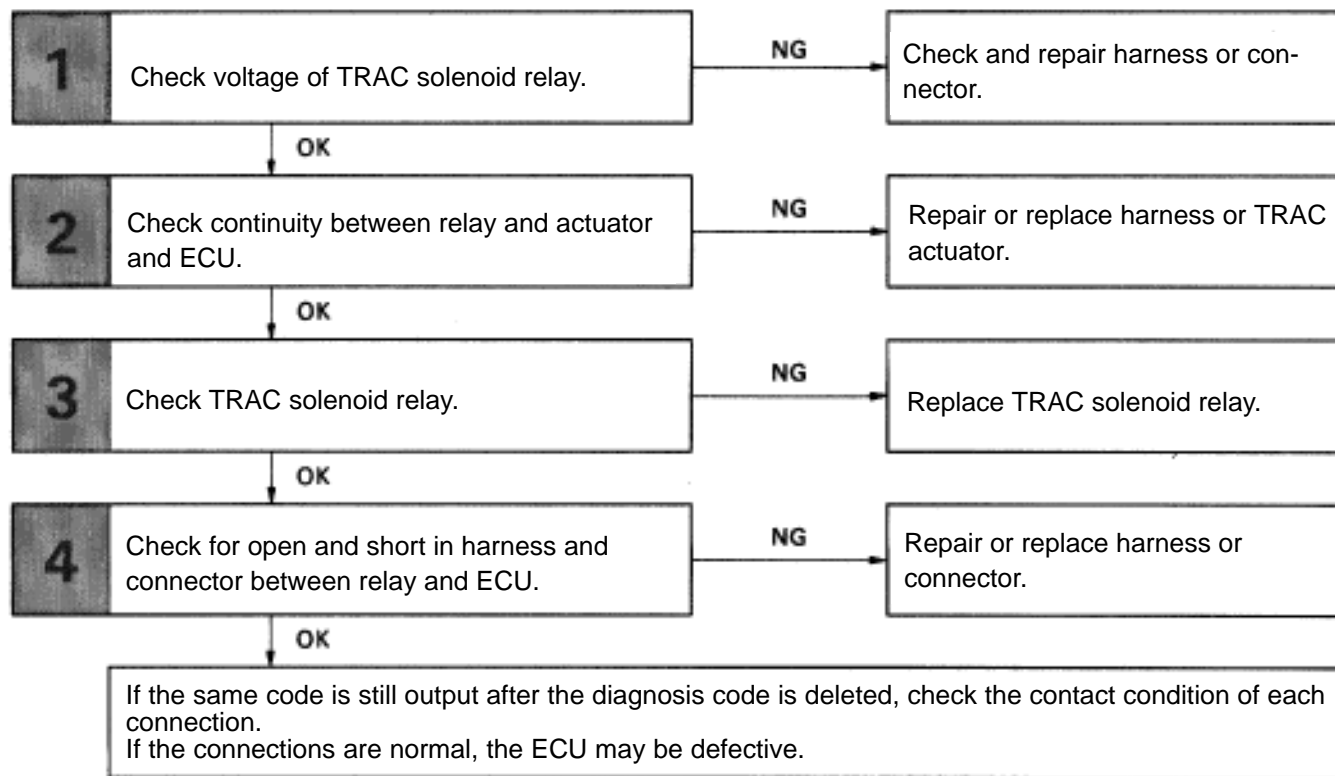
This relay circuit supplies power to each traction brake actuator solenoid.

When the ignition switch is turned on, the relay goes on.

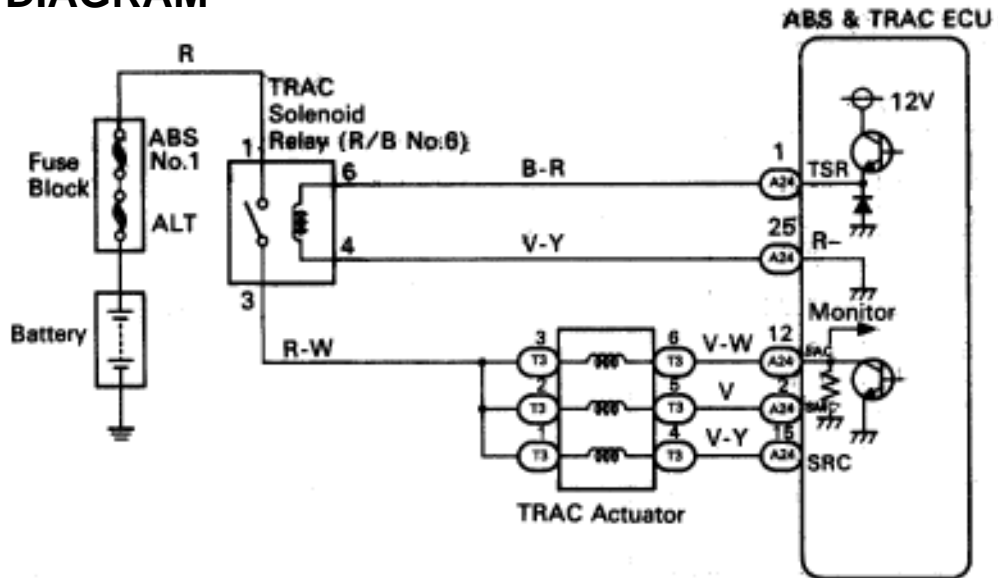
Code No.	Diagnostic Code Detecting Condition	Trouble Area
15	Conditions (1) through (3) continue for 0.2 sec. or more: (1) TRAC solenoid relay: ON (2) TRAC actuator solenoid: OFF (3) TRAC actuator solenoid monitor voltage (in ECU): OV	<ul style="list-style-type: none"> <li>•TRAC solenoid relay</li> <li>•Open or short in TRAC solenoid relay circuit</li> <li>•ECU</li> </ul>
16	Conditions (1) through (3) continue for 0.2 sec. or more: (1) TRAC solenoid relay: OFF (2) TRAC actuator solenoid: OFF (3) TRAC actuator solenoid monitor voltage (in ECU): Battery voltage	<ul style="list-style-type: none"> <li>•TRAC solenoid relay</li> <li>•+B short in TRAC solenoid relay circuit</li> <li>•ECU</li> </ul>

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

### DIAGNOSTIC CHART



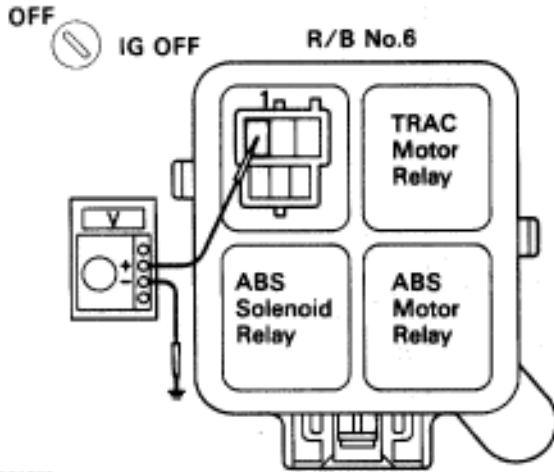
# WIRING DIAGRAM



## INSPECTION PROCEDURE

1

Check voltage between terminal 1 of R/B No.6 (for TRAC solenoid relay) and body ground.

BE6653  
BR5422

OK

- Remove TRAC solenoid relay from R/B No.6.
- Measure voltage between terminal 1 of R/B No.6 (for TRAC solenoid relay) and body ground.

**Voltage:** 10 – 14V

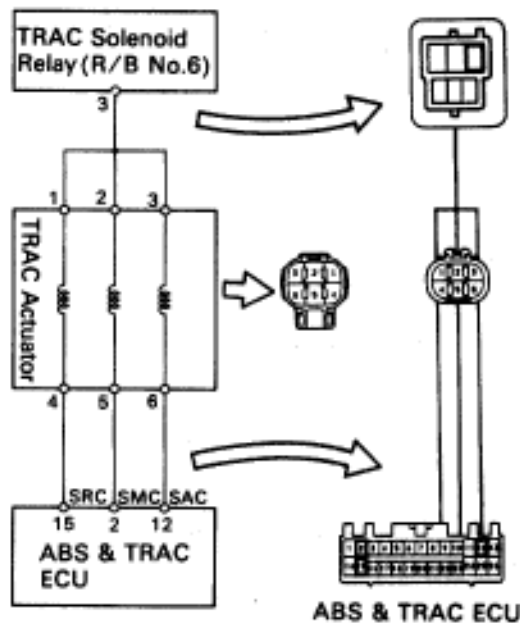
**Voltage:** 10 – 14V

NG

Repair or replace harness or connector.

2

Check continuity between terminal 3 of R/B No.6 (for TRAC solenoid relay) and terminals SAC, SMC, SRC of ABS & TRAC ECU.



BR5390 BR5397

OK

Check continuity between terminal 3 of R/B No.6 (for TRAC solenoid relay) and terminals SAC, SMC, SRC of ABS & TRAC ECU.

**Continuity**

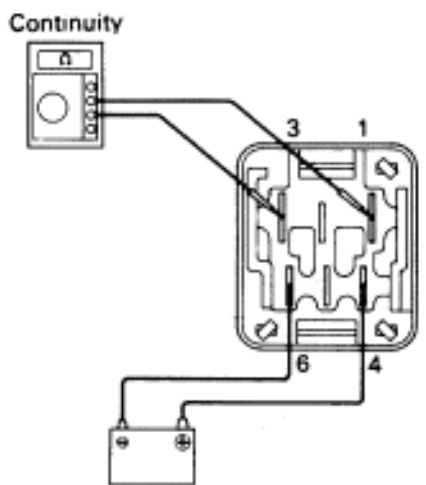
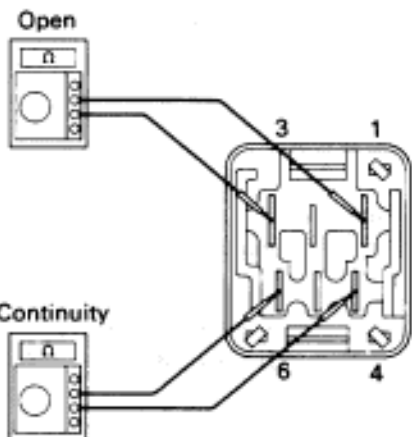
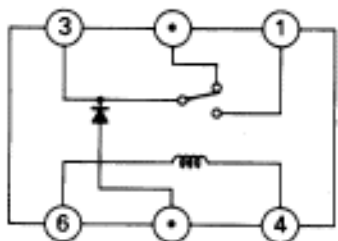
Resistance of the TRAC actuator solenoid is 2Ω.

HINT

2Ω.

NG

Repair or replace harness or TRAC actuator..

**3****Check TRAC solenoid relay.**BR5403  
BR5406  
BR5407

1. Remove solenoid relay from R/B No.6.
2. Check continuity between each terminal of TRAC solenoid relay shown below.

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

1. Apply battery voltage between terminals 4 and 6.
2. Check continuity between terminals shown below

Terminals 1 and 3	Continuity
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**OK****NG**

Replace TRAC solenoid relay.

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

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.