

CIRCUIT INSPECTION

DTC	11, 12	ABS Solenoid Relay Circuit
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CIRCUIT DESCRIPTION

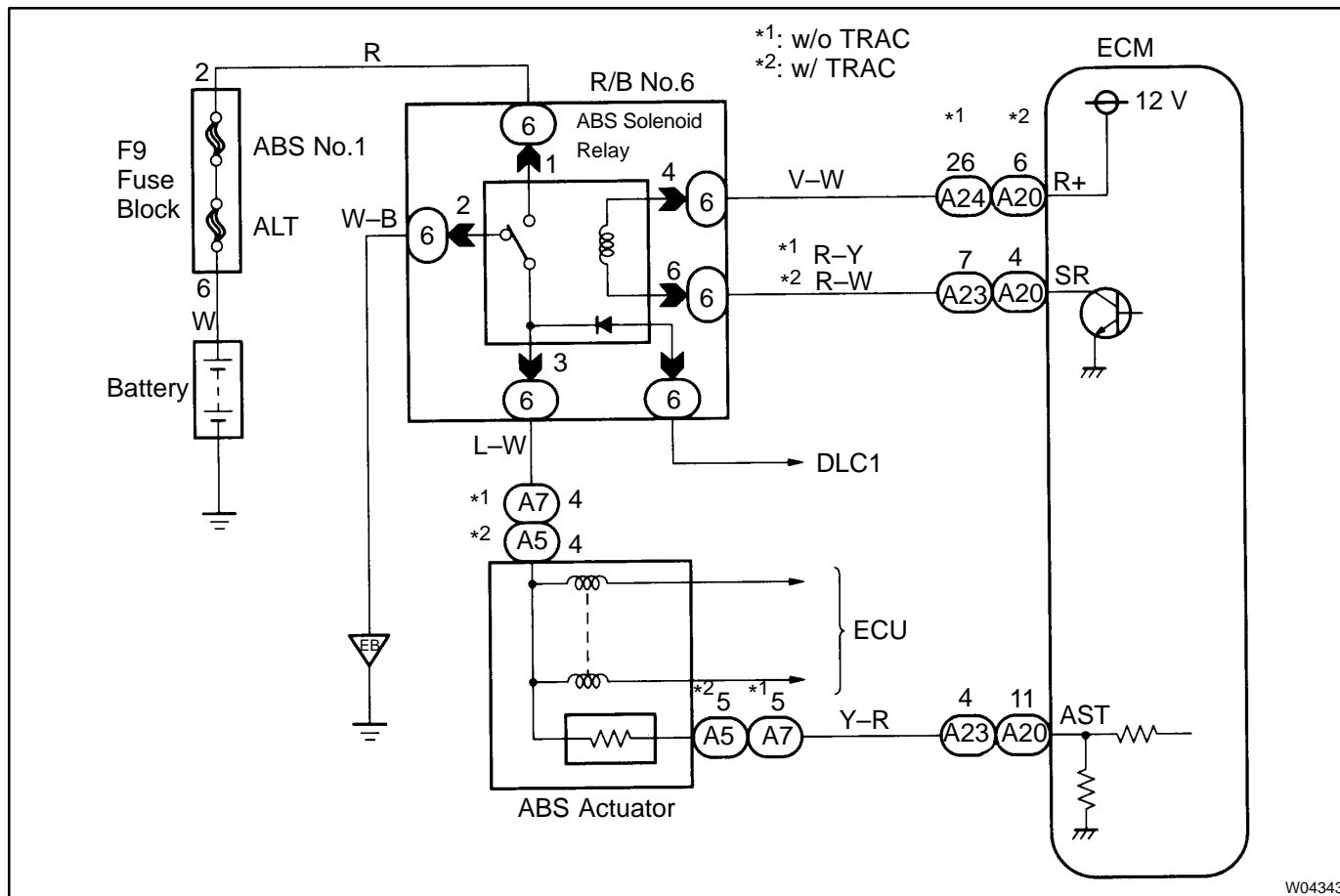
This relay supplies power to each ABS solenoid. After the ignition switch is turned ON, if the initial check is OK, the relay goes on.

DTC No.	DTC Detecting Condition	Trouble Area
11	Conditions (1) and (2) continue for 0.2 sec. or more: (1) ABS solenoid relay terminal (SR) voltage: Below 1.5 V (2) Solenoid relay monitor terminal (AST) voltage: 0 V	<ul style="list-style-type: none"> • ABS solenoid relay • Open or short in ABS solenoid relay circuit
12	Conditions (1) and (2) continue for 0.2 sec. or more: (1) ABS solenoid relay terminal (SR) voltage: Battery positive voltage (2) Solenoid relay monitor terminal (AST) voltage: Battery positive voltage	<ul style="list-style-type: none"> • ABS solenoid relay • B+ short in ABS solenoid relay circuit

Fail safe function:

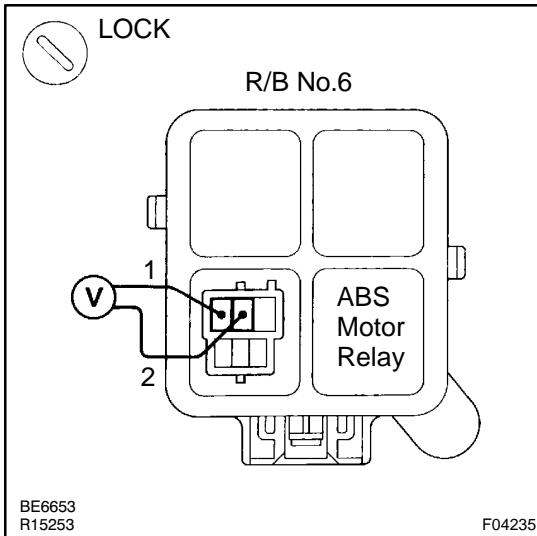
If trouble occurs in the ABS solenoid relay circuit, the ECU cuts off current to the ABS solenoid relay and prohibits ABS control.

WIRING DIAGRAM



INSPECTION PROCEDURE

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

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

CHECK:

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

OK:

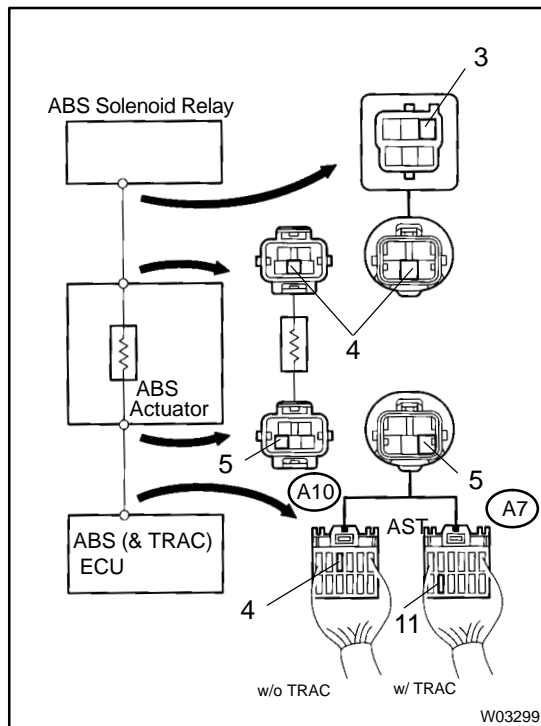
Resistance: 10 – 14 V

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Check and repair harness or connector.

OK

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



PREPARATION:

Disconnect the 2 connectors form ABS actuator.

CHECK:

Check continuity between terminal 3 of ABS solenoid relay and terminal AST of ABS (&TRAC) ECU.

OK:

Continuity

HINT:

There is a resistance of 26 – 40 Ω between terminals 4 and 5 of ABS actuator.

OK

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Repair or replace harness or ABS actuator.

The diagram illustrates the wiring for a 6-pin connector. The top schematic shows a circuit with terminals 1 through 6. Terminals 1, 2, and 3 are on the top row, while 4, 5, and 6 are on the bottom row. A switch is connected between terminals 1 and 2, and a buzzer is connected between terminals 5 and 6. The bottom part of the diagram shows two physical connector views. The first view shows continuity tests: 1-3, 2-5, and 3-6. The second view shows a buzzer test: 1-3, 2-5, 3-6, and 4-6. The buzzer is labeled with a minus sign (-) and a plus sign (+).

Remove solenoid relay from R/B No.6.

Check continuity between each terminal of ABS solenoid relay.

Terminals 4 and 6	Continuity (Reference value 49 – 134 Ω)
Terminals 2 and 3	Continuity
Terminals 1 and 3	Open

- (a) Apply battery voltage between terminals 4 and 6.
- (b) Check continuity between each terminal of ABS solenoid relay.

Terminals 2 and 3	Open
Terminals 1 and 3	Continuity

Replace ABS solenoid relay.

1997 LEXUS SC400/SC300 (RM513U)

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| 4 | Check for open and short in harness and connector between ABS solenoid relay and ABS (& TRAC) ECU (See page IN-29). |
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Repair or replace harness or connector.

OK

**If the same code is still output after the DTC is deleted, check the contact condition of each connection.
If the connections are normal, the ECU may be defective.**