

CIRCUIT INSPECTION

DTC	11, 12	ABS Control (Solenoid) Relay Circuit
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CIRCUIT DESCRIPTION

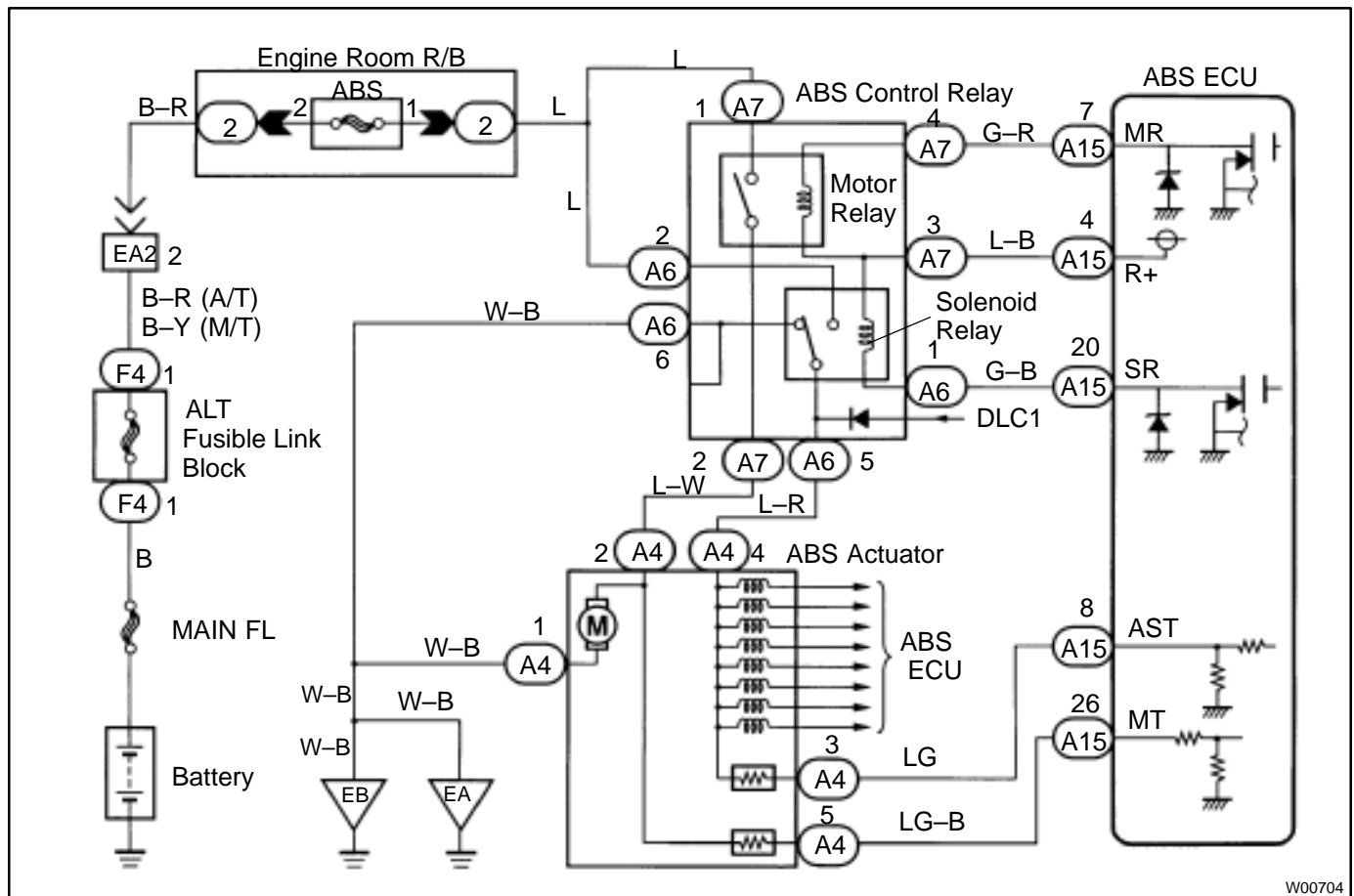
This relay supplies power to each ABS solenoid. After the ignition switch is turned ON, if the initial check is OK, the relay goes on.

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

Fail safe function:

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

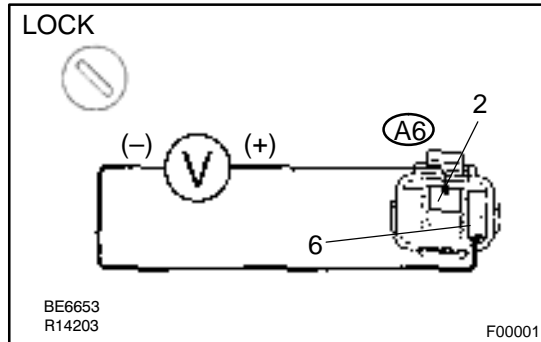
WIRING DIAGRAM



W00704

INSPECTION PROCEDURE

- | | |
|----------|--|
| 1 | Check voltage between terminals A6 – 2 and A6 – 6 of ABS control relay connector. |
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**PREPARATION:**

Disconnect the ABS control relay connector.

CHECK:

Measure the voltage between terminals A6 – 2 and A6 – 6 of ABS control relay harness side connector.

OK:

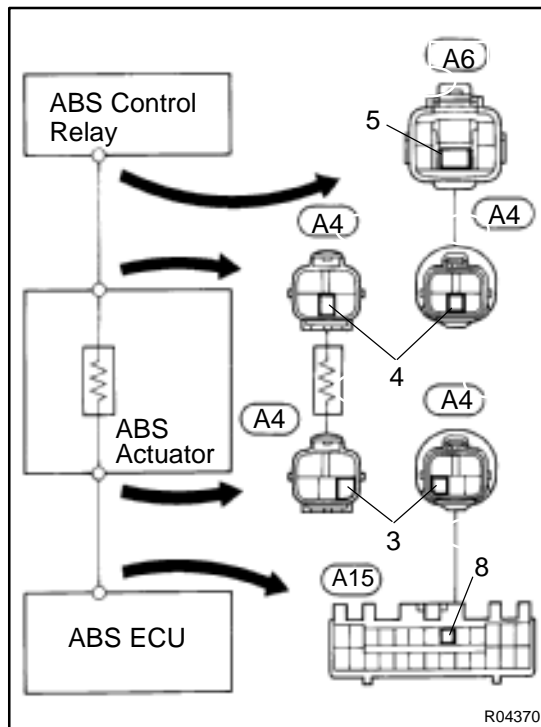
Voltage: 10 – 14 V

NG

Check and repair harness or connector.

OK

- | | |
|----------|---|
| 2 | Check continuity between terminals A6 – 5 and A4 – 4, A4 – 4 and A4 – 3, A4 – 3 and A15 – 8. |
|----------|---|

**PREPARATION:**

Disconnect the connector from ABS actuator.

CHECK:

Check continuity between terminals A6 – 5 and A4 – 4, A4 – 4 and A4 – 3, A4 – 3 and A15 – 8.

OK:

Continuity

HINT:

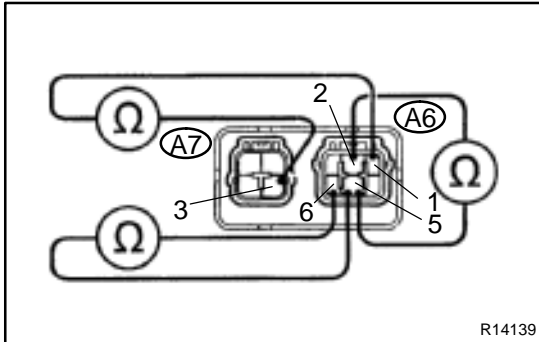
There is a resistance of 32 – 34 Ω between terminals A4 – 4 and A4 – 3.

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Repair or replace harness or ABS actuator.

OK

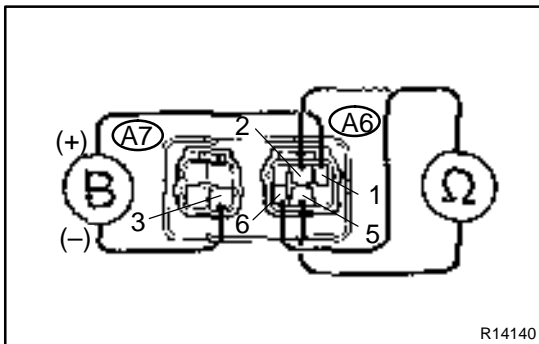
3 Check ABS control (solenoid) relay.

**CHECK:**

Check continuity between each terminal of ABS control (solenoid) relay.

OK:

Terminals A6 – 1 and A7 – 3	Continuity (Reference value 80 Ω)
Terminals A6 – 5 and A6 – 6	Continuity
Terminals A6 – 2 and A6 – 5	Open

**CHECK:**

- Apply battery voltage between terminals A6 – 1 and A7 – 3.
- Check continuity between each terminal of ABS control (solenoid) relay.

OK:

Terminals A6 – 5 and A6 – 6	Open
Terminals A6 – 2 and A6 – 5	Continuity

NG**Replace ABS control relay.****OK**

4 Check for open and short in harness and connector between ABS control relay and ABS ECU (See page [IN-27](#)).

NG**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.