

CIRCUIT INSPECTION

DTC	11, 12	ABS Solenoid Relay Circuit
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CIRCUIT DESCRIPTION

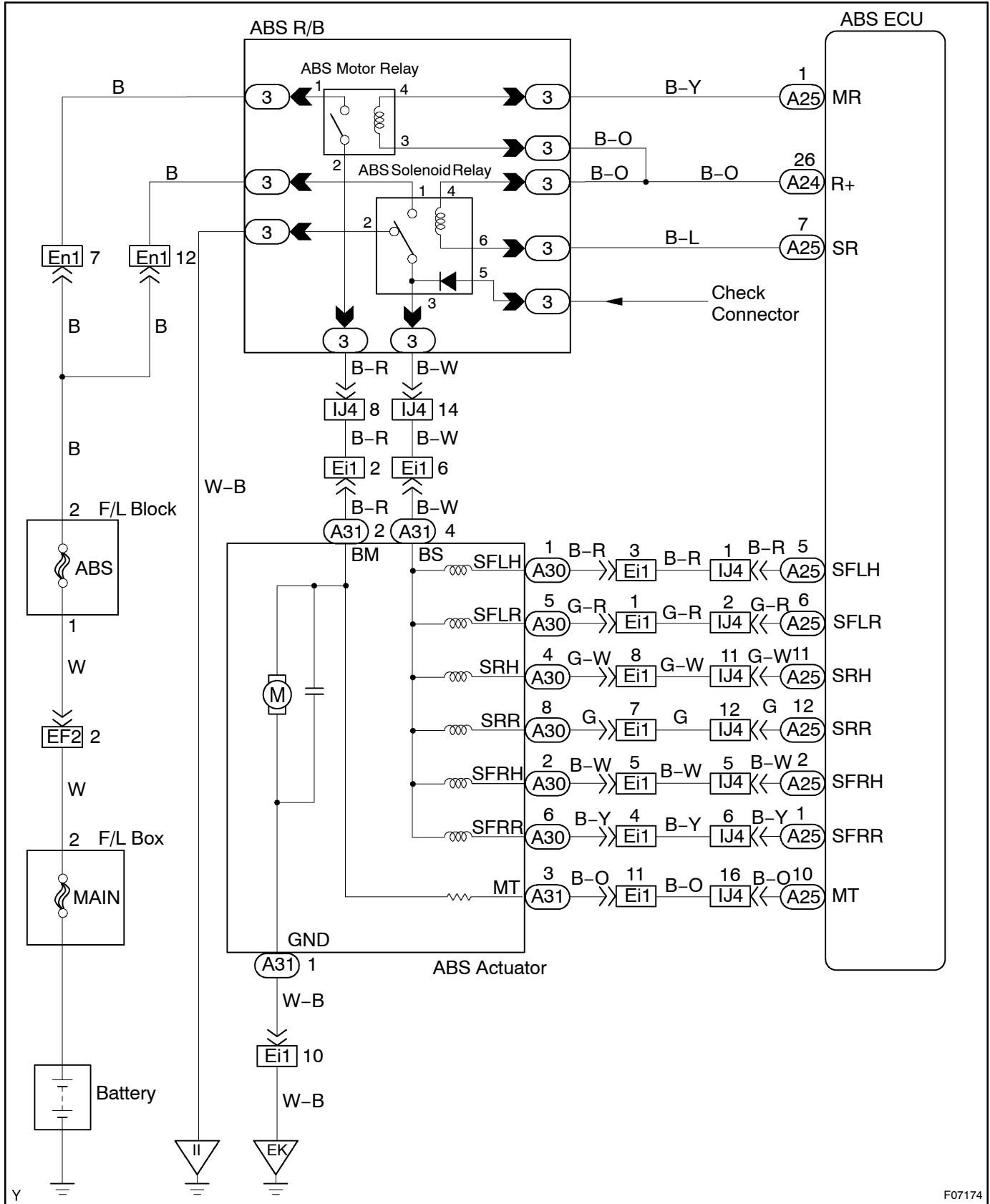
This relay supplies power to each ABS solenoid. After the ignition switch is turned ON, if the initial check is OK, the relay goes on.

DTC No.	DTC Detecting Condition	Trouble Area
11	Conditions of 1 or 2 continue for 0.2 seconds or more. 1. ECU IG1 terminal voltage is 9.5 V to 18.5 V, the solenoid relay is ON and the condition that the solenoid relay contact is OFF. 2. By driving with the solenoid relay ON, ECU IG1 terminal voltage becomes less than 9.5 V and the solenoid relay contact does not become ON condition.	<ul style="list-style-type: none">•ABS solenoid relay•ABS solenoid relay circuit
12	Immediately after ECU IG1 terminal becomes ON, when the solenoid relay is OFF, and when the condition that the solenoid relay contact is ON has been continued for 0.2 seconds or more.	<ul style="list-style-type: none">•ABS solenoid relay•ABS solenoid relay circuit

Fail safe function:

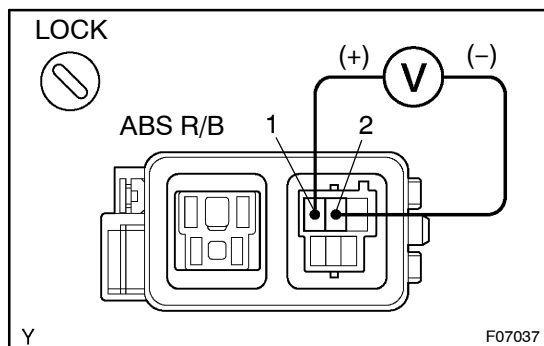
If trouble occurs in the ABS solenoid relay circuit, the ABS ECU cuts off current to the ABS solenoid relay and prohibits ABS control.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check voltage between terminals 1 and 2 of ABS R/B (ABS solenoid relay).

**PREPARATION:**

Remove the ABS solenoid relay from ABS R/B.

CHECK:

Measure the voltage between terminals 1 and 2 of ABS R/B ABS solenoid relay.

OK:

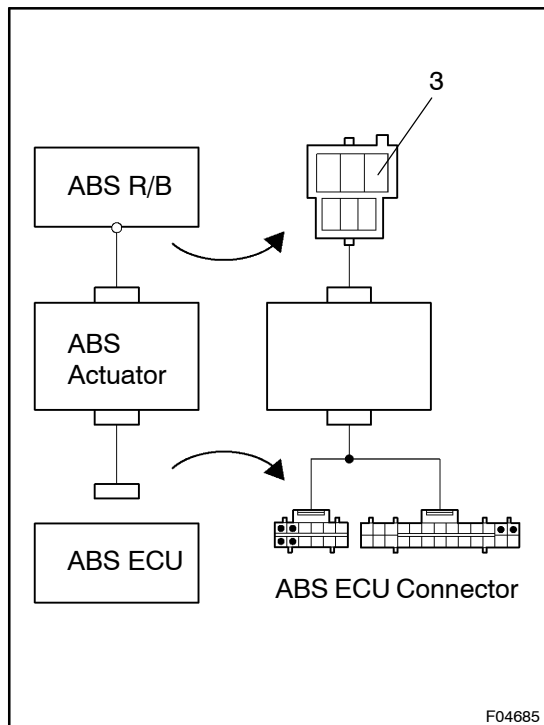
Voltage: 10 – 14 V

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Check and repair harness or connector.

OK

2 Check continuity between terminals 3 of ABS solenoid relay connector and terminal SFRR, SFRH, SFLR, SFLH, SRR or SRH of ABS ECU.

**PREPARATION:**

Disconnect 2 connectors from ABS ECU.

CHECK:

Check continuity between terminals 3 of ABS solenoid relay connector and terminal SFRR, SFRH, SFLR, SFLH, SRR or SRH of ABS ECU.

OK:

Continuity

HINT:

Resistance of each solenoid coil.

SFRH, SFLH, SRH: 8.8 Ω

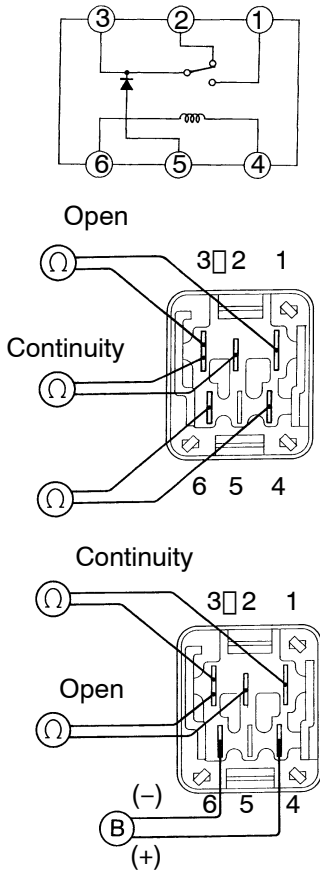
SFRR, SFLR, SRR: 4.3 Ω

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Repair or replace harness or ABS actuator.

OK

3 Check ABS solenoid relay.



BR5403
R15254
R15255

F00042

PREPARATION:

Remove the ABS solenoid relay.

CHECK:

Check continuity between each terminal of ABS solenoid relay.

OK:

Terminals 4 and 6	Continuity (Reference value 30 Ω)
Terminals 2 and 3	Continuity
Terminals 1 and 3	Open

CHECK:

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

OK:

Terminals 2 and 3	Open
Terminals 1 and 3	Continuity

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Replace ABS solenoid relay.

OK

4 Check for open and short circuit in harness and connector between ABS solenoid relay and ABS ECU (See page IN-30).

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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 ABS ECU may be defective.