DI29F–03

ABS Warning Light Circuit

CIRCUIT DESCRIPTION

If the ECU detects trouble, it lights the ABS warning light while at the same time prohibiting ABS control. At this time, the ECU records a DTC in memory.

After removing the short pin of the check connector, connect terminals Tc and E_1 of the check connector to make the ABS warning light blink and output the DTC.

WIRING DIAGRAM
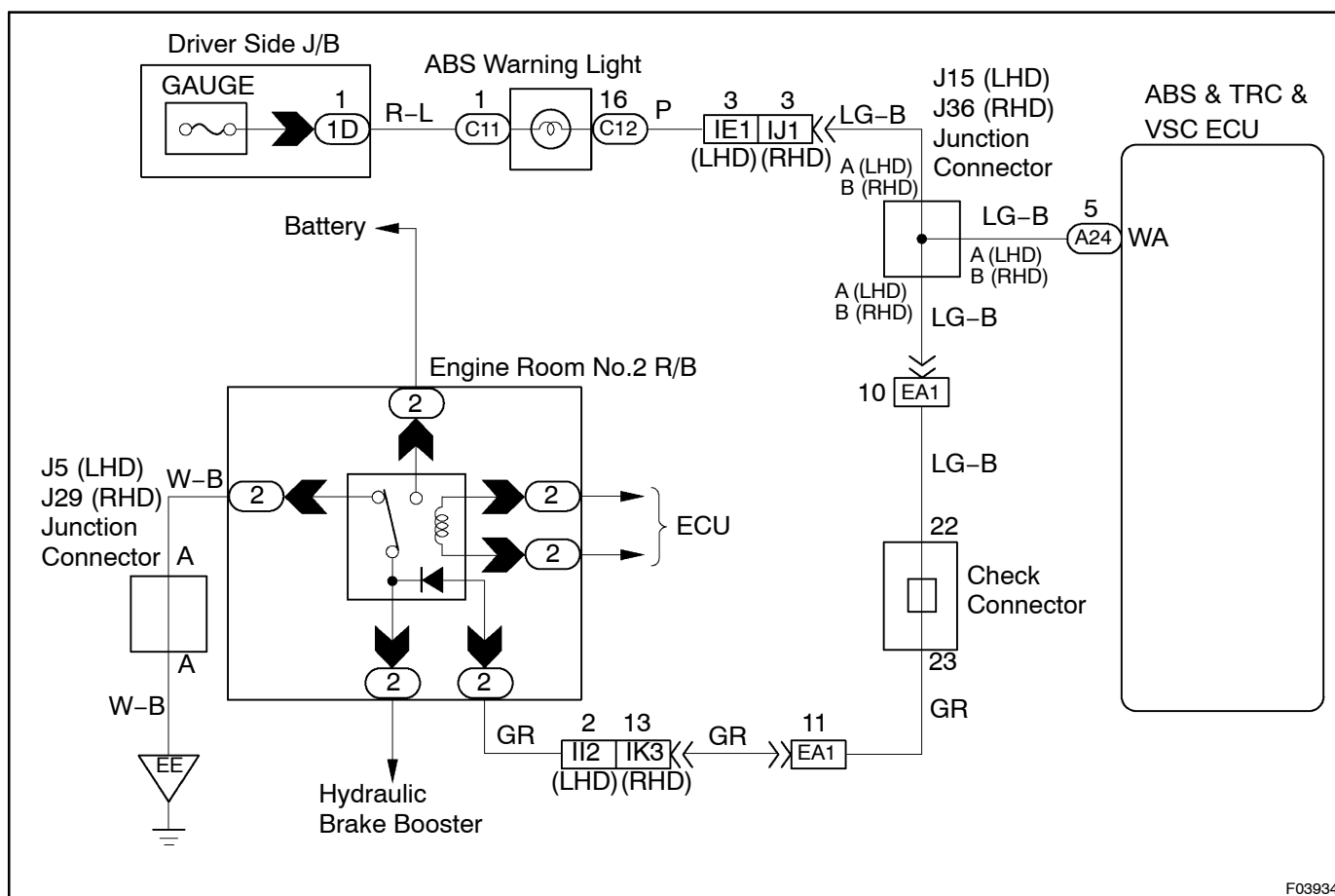
F03934

INSPECTION PROCEDURE

HINT:

Troubleshoot in accordance with the chart below for each trouble symptom.

ABS warning light does not light up	*1
ABS warning light remains on	*2

*1: Start the inspection from step 1 in case of using the hand–held tester and start from step 2 in case of not using hand–held tester.

*2: After inspection with step 4, start the inspection from step 5 in case of using the hand–held tester and start from step 6 in case of not using hand–held tester.

1	**Check operation of the ABS warning light.**

PREPARATION:

(a) Connect the hand–held tester to the DLC3.

(b) Turn the ignition switch ON and push the hand–held tester main switch ON.

(c) Select the ACTIVE TEST mode on the hand–held tester.

CHECK:

Check that "ON" and "OFF" of the ABS warning light can be shown on the combination meter on the hand–held tester.

OK ⟩ **Check and replace ABS & TRC & VSC ECU.**

NG

2	**Check ABS warning light.**

See Combination Meter Troubleshooting on .

NG ⟩ **Repair bulb or combination meter assembly.**

OK

3	Check ABS solenoid relay.
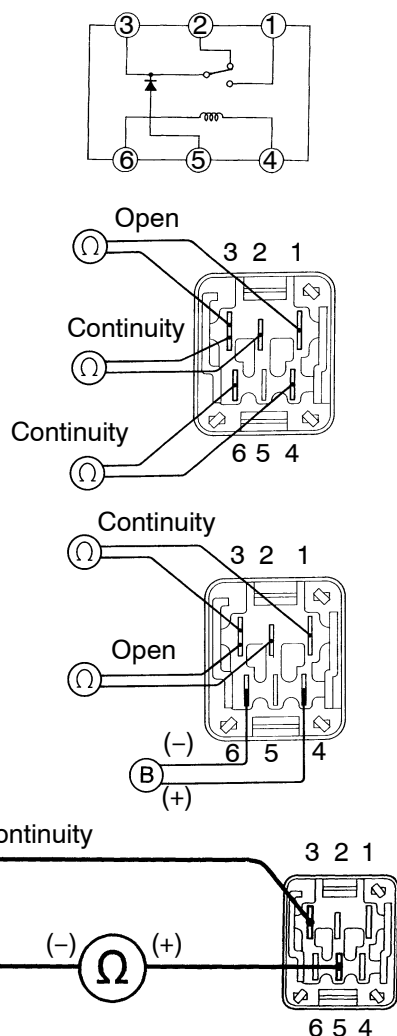
PREPARATION:
Remove ABS solenoid relay from Engine Room R/B No.2.
CHECK:
Check continuity between each terminal of ABS solenoid relay.
OK:

Terminals 4 and 6	Continuity (Reference value 80 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

CHECK:
Connect the ⊕ test lead to terminal 5 and the ⊖ lead to terminal 3. Check continuity between the terminals.
OK:
    Continuity
If there is no continuity, connect the ⊖ test lead to terminal 5 and the ⊕ lead to terminal 3. Recheck continuity between terminals.

NG	**Turn the IG switch OFF, replace ABS solenoid relay.**

OK

Repair or replace and check for open circuit in harness and connector between check connector and ABS solenoid relay and body ground (See page IN–29).

4	Check that the ECU connectors are securely connected to the ECU.

> **NO** Connect the connector to the ECU.

YES

5	Check operation of the ABS warning light (See step 1).

> **OK** Check and replace ABS & TRC & VSC ECU.

NG

6	Is DTC output?

Check DTC on page DI–210.

> **YES** Repair circuit indicated by the output code.

NO

7	Does ABS warning light go off if short pin is removed?

> **NO** Check for short circuit in harness and connector between warning light and check connector and ECU (See page IN–29).

YES

8	Check ABS solenoid relay (See step 3).

NG ⟩ **Turn the IG switch OFF, replace ABS solenoid relay.**

OK

Check for short circuit in harness and connector between check connector and ABS solenoid relay (See page IN–29).