

DTC	Always ON	Malfunction in ECU
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CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
Always ON	Either of the following (1) through (3) is detected: (1) The ECU connectors are OFF from the ECU. (2) There is a malfunction in the ECU internal circuit. (3) The voltage of terminal IG1 is more than 18.5 V.	<ul style="list-style-type: none"> • Battery • IC regulator • Power source circuit • ABS ECU

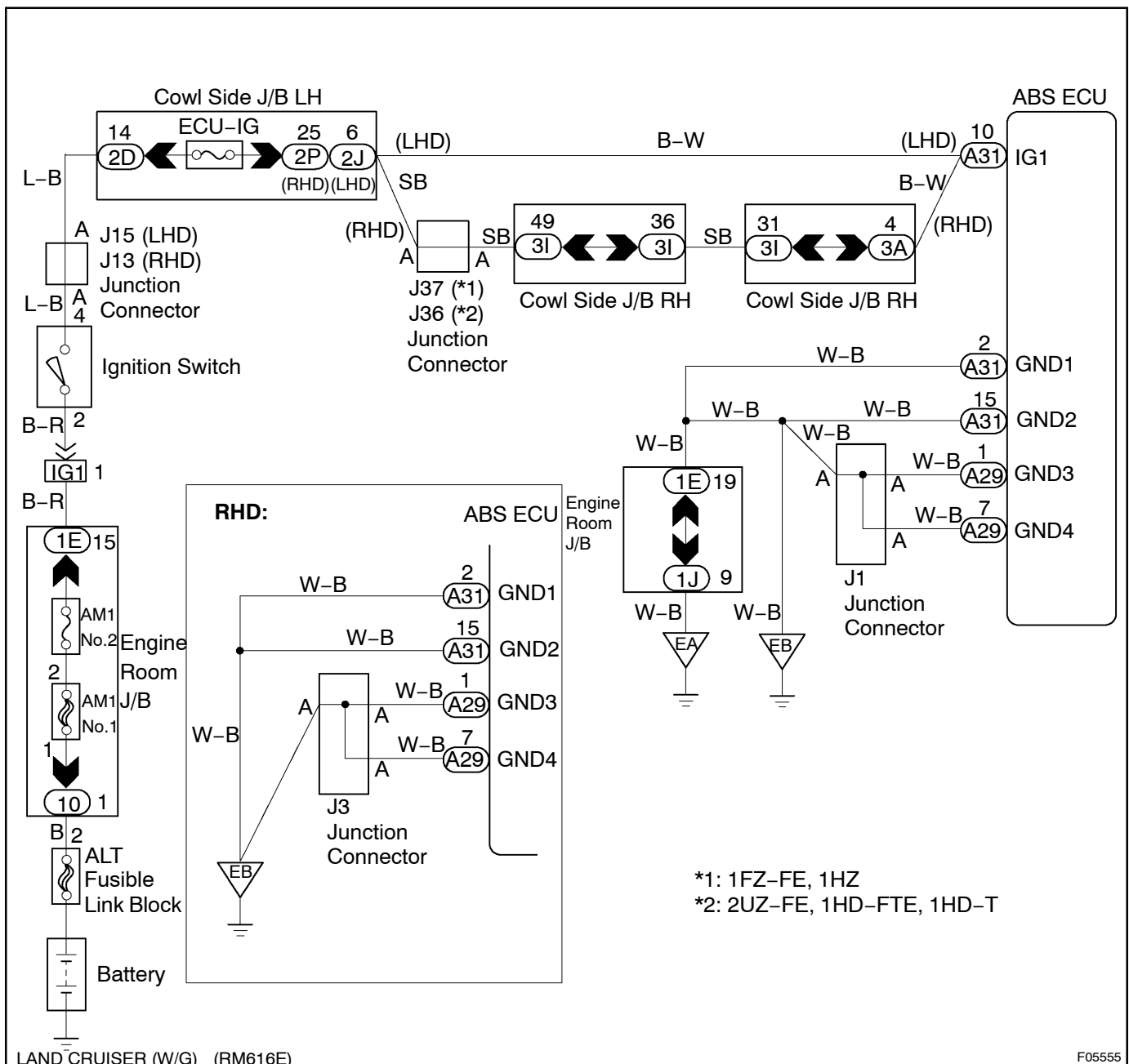
HINT:

There is a case that hand-held tester cannot be used when ECU is abnormal.

Fail safe function:

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

WIRING DIAGRAM



INSPECTION PROCEDURE

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

NO

Connect the connector to the ECU.

YES

2 Is DTC output?

Check DTC on [page DI-312](#).

YES

Repair circuit indicated by the output code.

NO

3 Is normal code displayed?

YES

Check solenoid relay. Check for short circuit in harness and connector between solenoid relay and check connector ([See page IN-24](#)).

NO

4 Does ABS warning light go off?

YES

Check for open or short circuit in harness and connector between ECU-IG fuse and ECU ([See page IN-24](#)).

NO

5 Check battery voltage.**CHECK:**

- (a) Start the engine.
- (b) Check the battery voltage.

OK:

Voltage: 10 – 16 V

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Check and repair the charging system.

OK

6 Check operation of the ABS warning light.**IN CASE OF USING HAND-HELD TESTER:****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 by the hand-held tester.

IN CASE OF NOT USING HAND-HELD TESTER:**PREPARATION:**

- (a) Turn the ignition switch OFF.
- (b) Disconnect the connector from the ABS ECU.
- (c) Turn the ignition switch ON.

CHECK:

Check the ABS warning light condition when pushing in and pulling out the short pin from the check connector.

OK:

When the short pin is pulled out: ABS warning light goes off

When the short pin is pushed in: ABS warning light goes on

OK

Check and replace ABS ECU.

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Check for short circuit in harness and connector between combination meter and ABS ECU, combination meter and check connector (See page IN-24).
Check ABS solenoid relay circuit (See page DI-335).