

<b>DTC</b>	<b>Always ON</b>	<b>Malfunction in ECU</b>
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## CIRCUIT DESCRIPTION

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

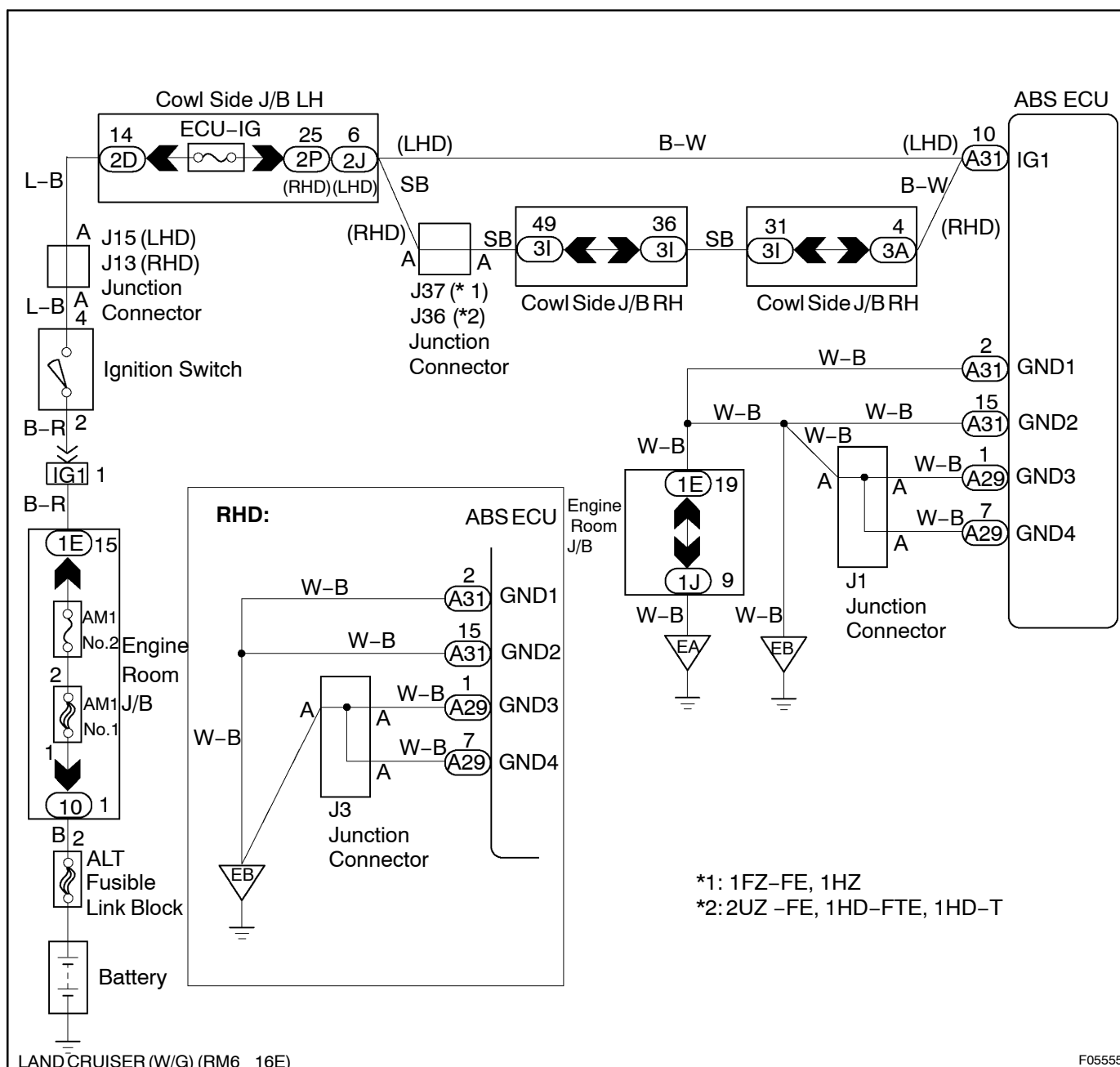
**HINT:**

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**

**NG**

**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.**

**NG**

**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).**