

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. or 2. is detected: 1. The ECU connectors are OFF from the ECU. 2. There is a malfunction in the ECU internal circuit.	<ul style="list-style-type: none"> <li>• Battery</li> <li>• IC regulator</li> <li>• Power source circuit</li> <li>• ABS &amp; BA &amp; TRC &amp; VSC ECU</li> </ul>

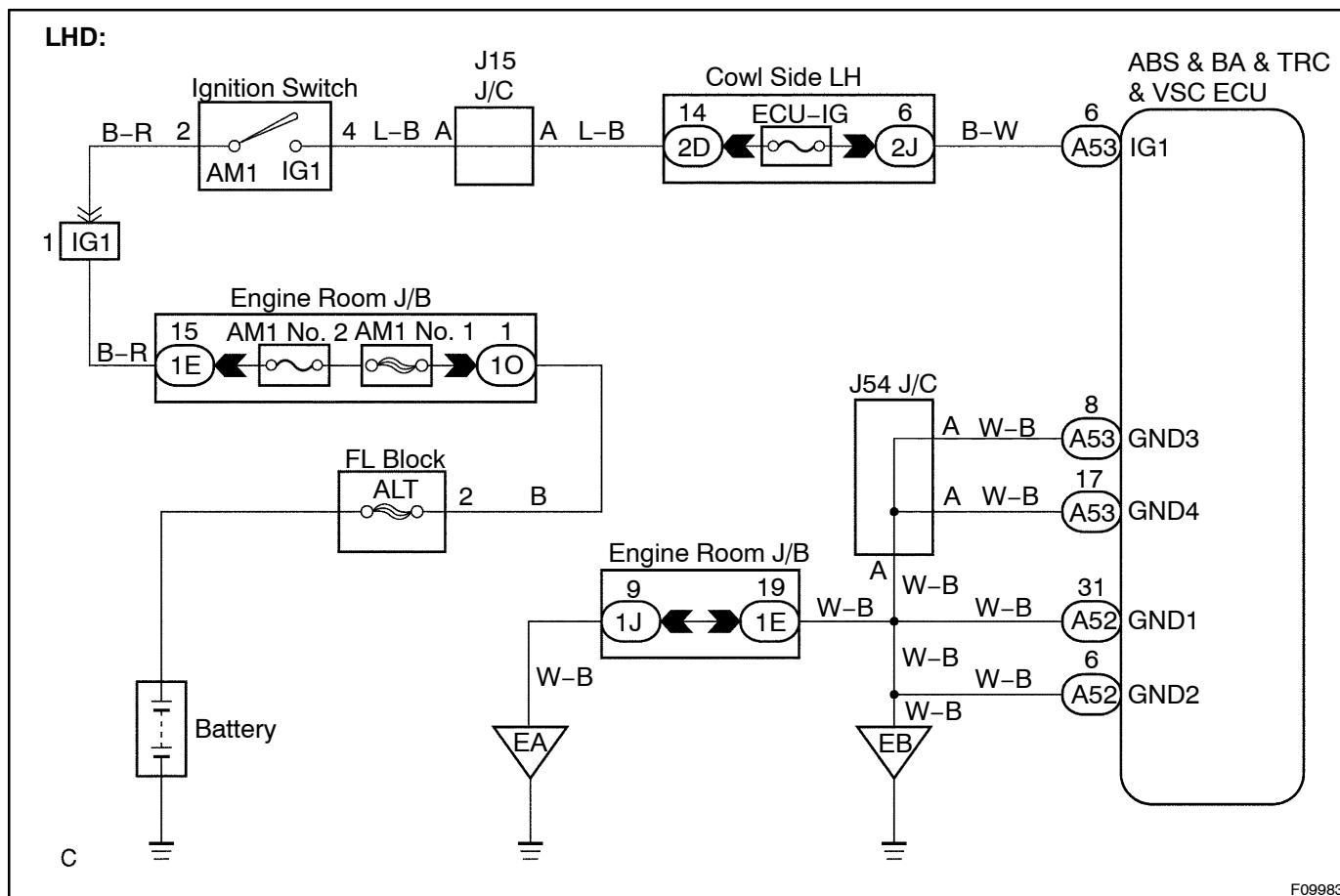
### HINT:

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

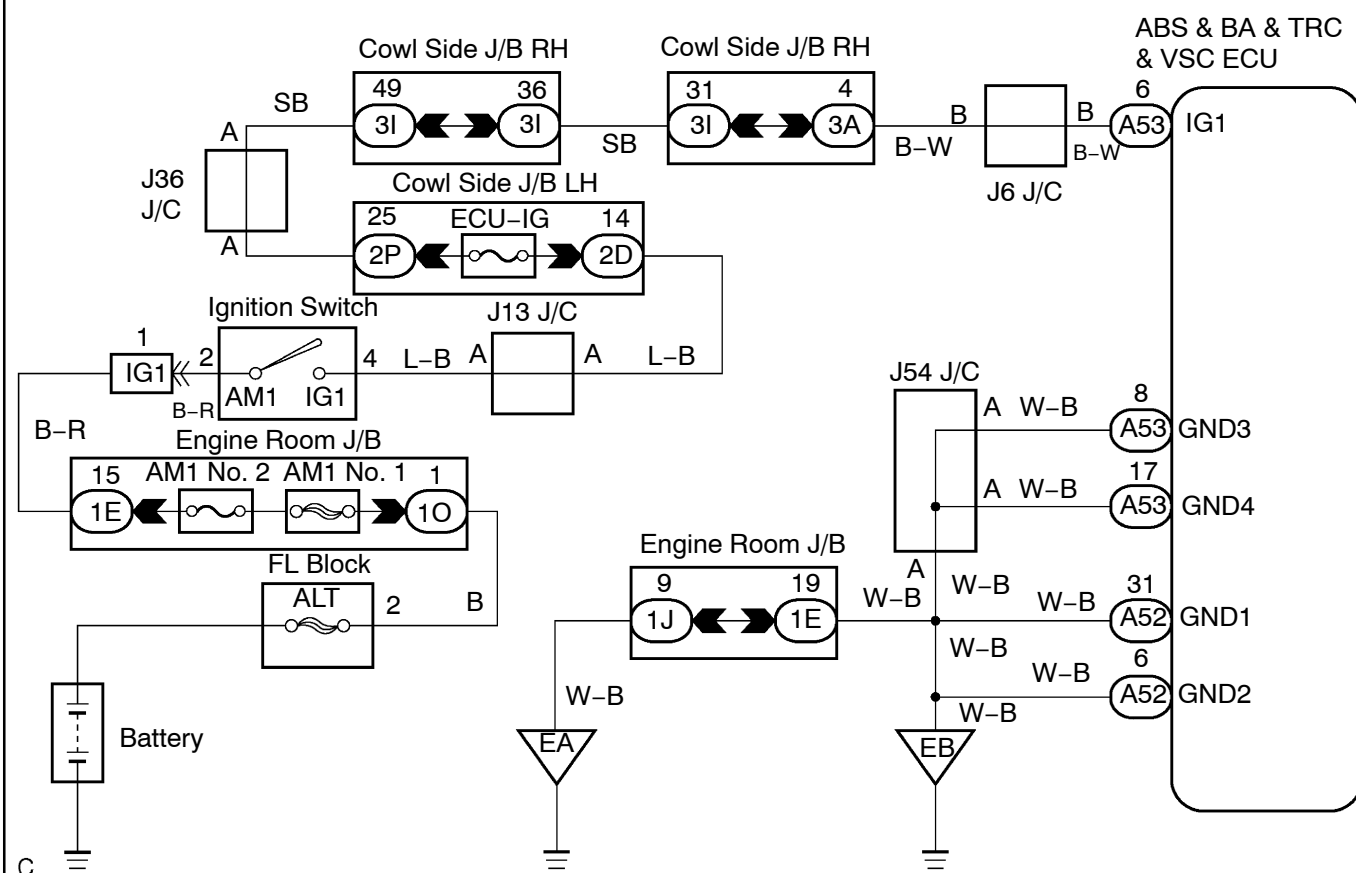
### Fail safe function:

If trouble occurs in the ECU, the ECU cuts off current to the ABS solenoid relay and prohibits ABS & BA & TRC & VSC controls. When fail safe function in ABS system is activated, "VSC TRC" warning light and "VSC OFF" indicator light tight up.

## WIRING DIAGRAM



**RHD:**



F10012

## 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-4](#).**YES****Repair circuit indicated by the output code.****NO****3 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-35](#)).****NO****4 Check battery voltage.****PREPARATION:**

Start the engine.

**CHECK:**

Check the battery voltage.

**OK:****Voltage: 10 – 14 V****NG****Check and repair the charging system.****OK**

## 5 Check operation of the ABS warning light.

**In case of using the 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 the hand-held tester:**

### PREPARATION:

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

### CHECK:

Check the ABS warning goes off.

OK

Check and replace combination meter (See page BE-1).

NG

## 6 Check for short circuit in harness and connector between combination meter and ABS & BA & TRC & VSC ECU, combination meter and check connector (See page IN-35).

NG

Repair or replace harness or connector.

OK

Check and replace ABS & BA & TRC & VSC ECU.