DI29E–07

DTC	Always ON	Malfunction in ECU

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.	• Battery • IC regulator • Power source circuit • ABS ECU

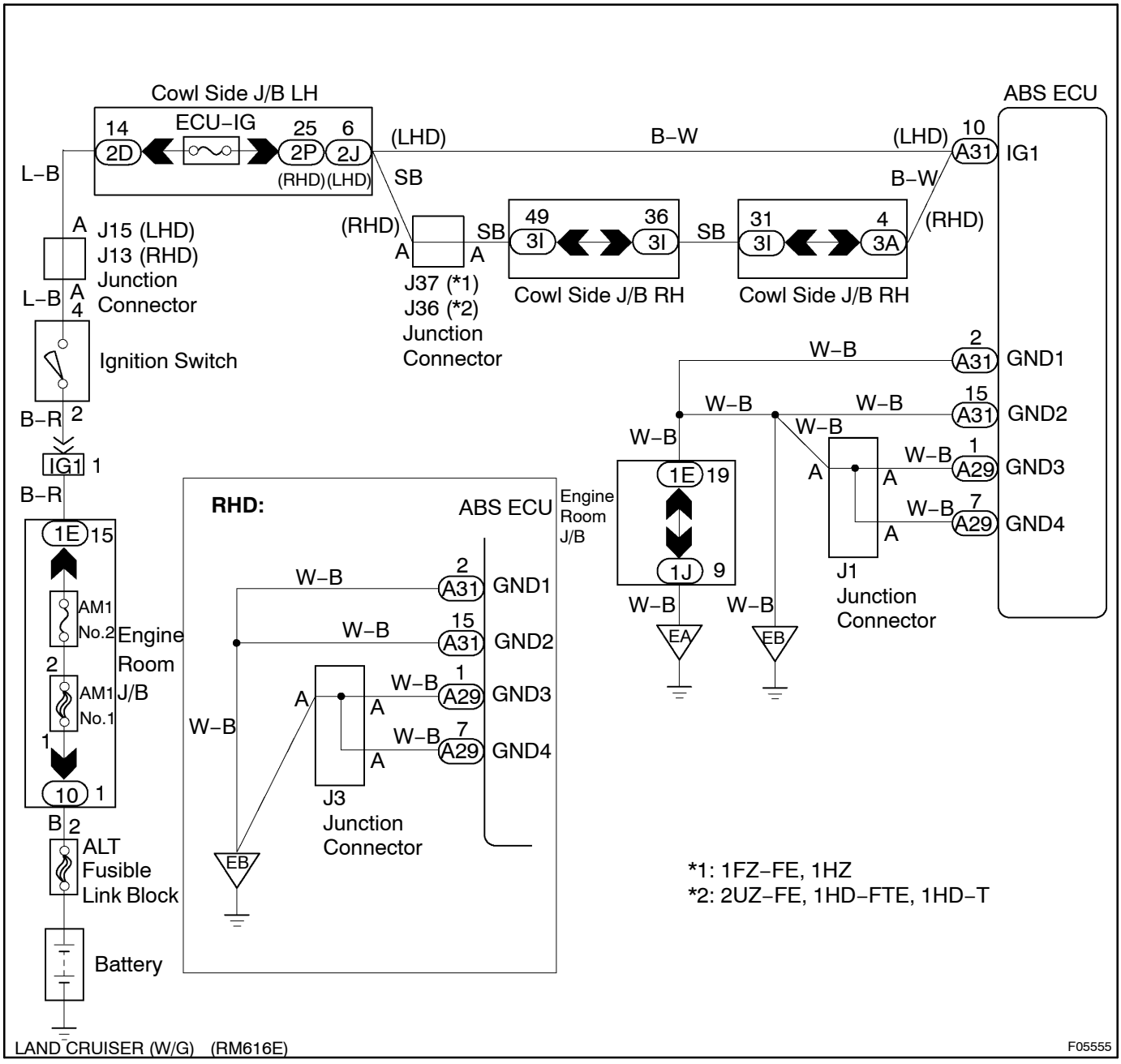
HINT:

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



LAND CRUISER (W/G) (RM616E)

F05555

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).