

DTC	Always ON	Malfunction in ECU
------------	------------------	---------------------------

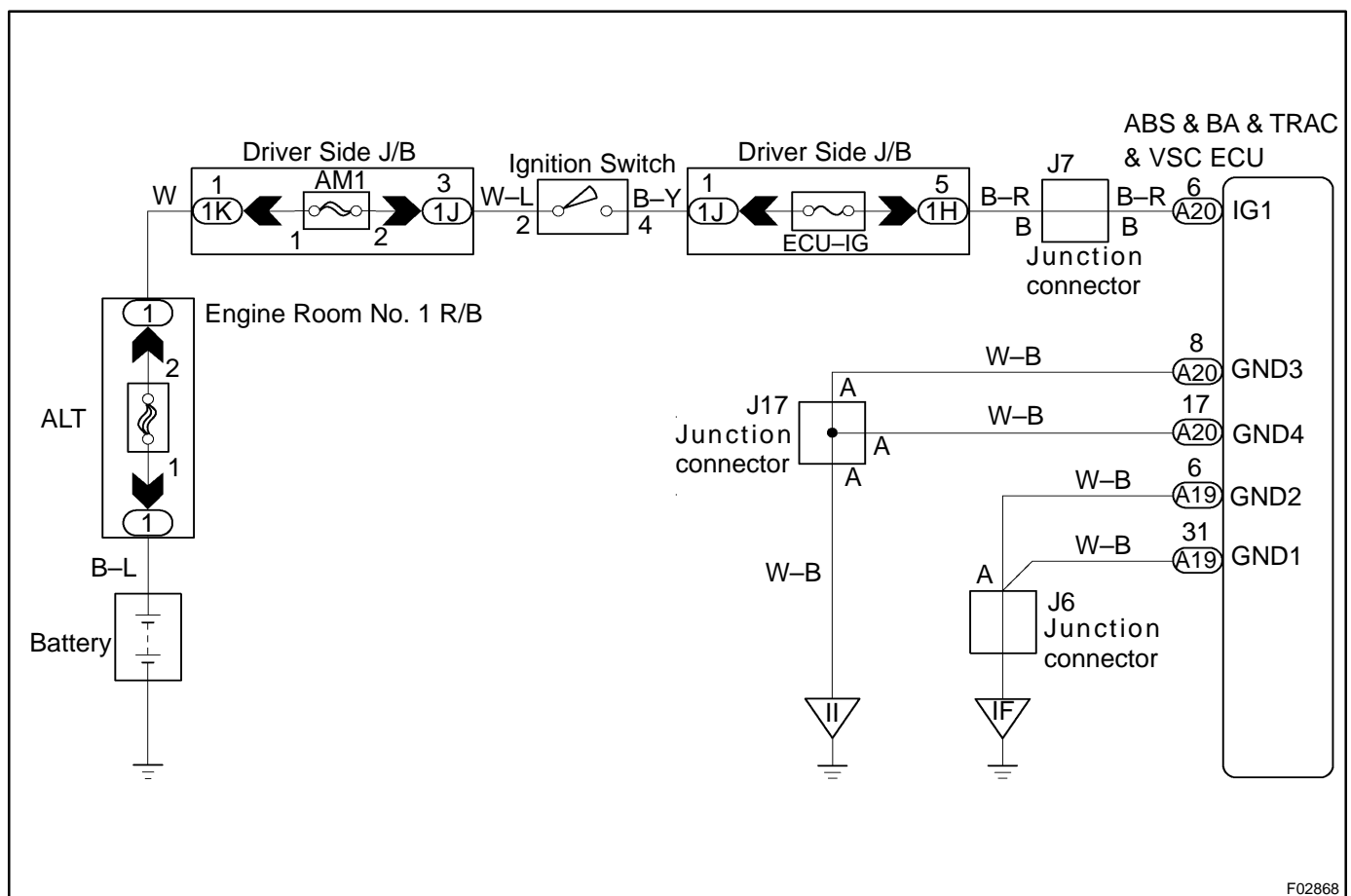
CIRCUIT DESCRIPTION

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"> • Battery • IC regulator • Power source circuit • ABS & BA & TRAC & VSCECU

HINT:

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

WIRING DIAGRAM



F02868

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-484](#).

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 DLC1 and DLC3 (See page [IN-32](#)).

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-32](#)).

NO

5 Check battery positive voltage.**PREPARATION:**

Start the engine.

CHECK:

Check the battery positive 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 the LEXUS hand-held tester:

PREPARATION:

- (a) Connect the LEXUS hand-held tester to the DLC3.
- (b) Turn the ignition switch ON and push the LEXUS hand-held tester main switch ON.
- (c) Select the ACTIVE TEST mode on the LEXUS hand-held tester.

CHECK:

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

In case of not using the LEXUS hand-held tester:

PREPARATION:

- (a) Turn the ignition switch OFF.
- (b) Disconnect the connector from the ABS & BA & TRAC & VSCECU.
- (c) Turn the ignition switch ON.

CHECK:

Check the ABS warning light condition when pulling in and out the short pin from the DLC1.

OK:

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

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

OK

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

NG

Check for short circuit in harness and connector between combination meter and ABS & BA & TRAC & VSC ECU, combination meter and DLC1 (and DLC3) (See page [IN-32](#)).
Check ABS solenoid relay circuit (See page [DI-505](#)).