

DTC	Always ON	Malfunction in ECU ABS Warning Light Circuit
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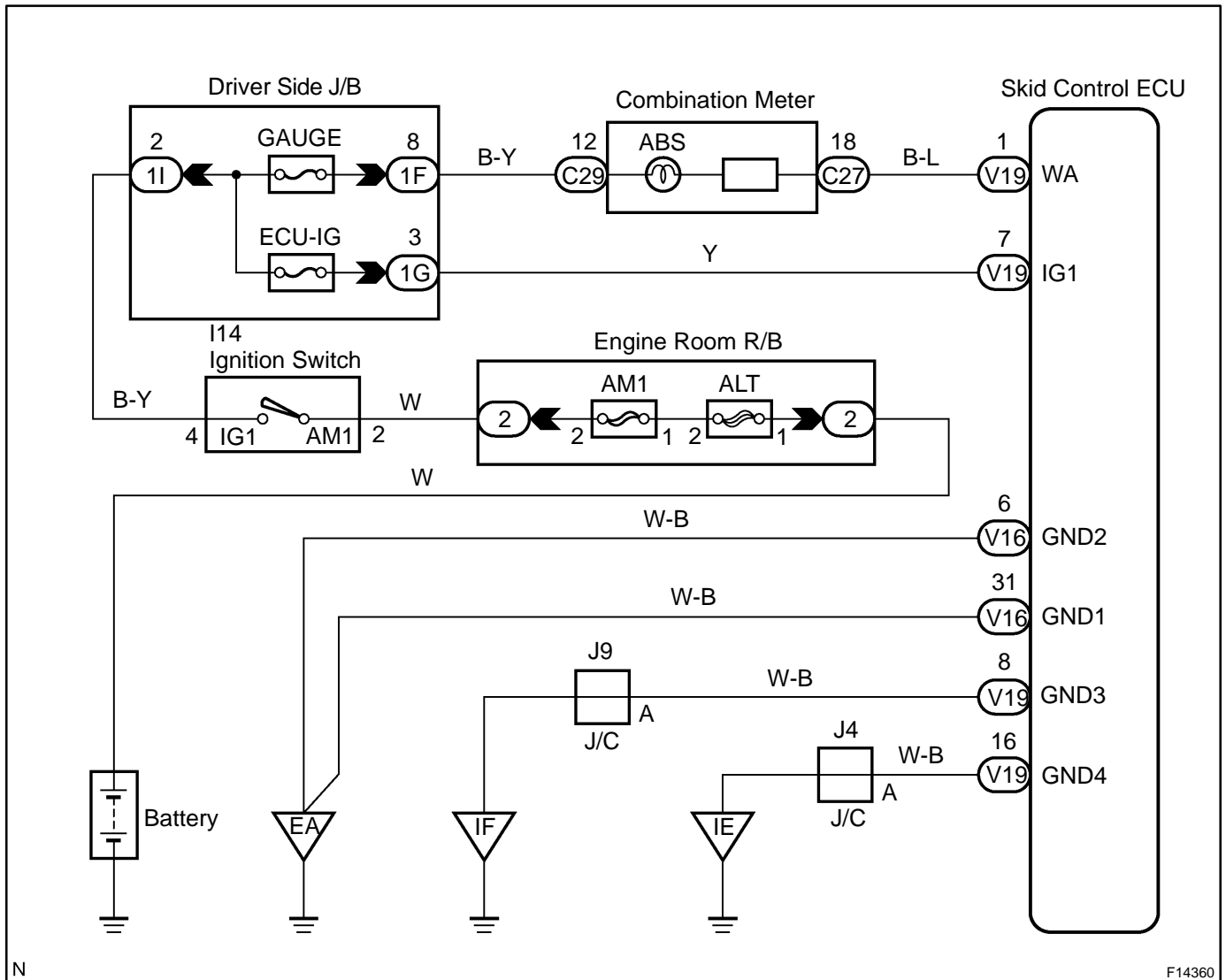
CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
Always ON	Either the condition 1. or 2. is detected: 1. The ECU connectors are disconnected from the ECU. 2. There is a malfunction in the ECU internal circuit.	<ul style="list-style-type: none"> • Battery • Charging system • Power source circuit • Skid control ECU

HINT:

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

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Is DTC output?
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Check DTC on page [DI-224](#) .

YES

Repair circuit indicated by the output code.

NO

2	Check that ECU connectors are securely connected to ECU.
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NO

Connect the connector to ECU.

YES

3	Check battery positive voltage.
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CHECK:

Check the battery positive voltage.

OK:

Voltage: 10 - 14 V

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Check and repair charging system.

OK

4	Check voltage of ECU IG power source.
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In case of using the hand-held tester:

PREPARATION:

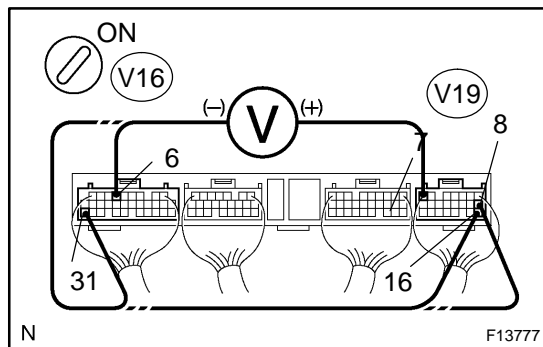
- (a) Connect the hand-held tester to DLC3.
- (b) Turn the ignition switch ON and push the hand-held tester main switch ON.
- (c) Select the DATALIST mode on the hand-held tester.

CHECK:

Check the voltage condition output from the ECU displayed on the hand-held tester.

OK:

"Normal" is displayed.



In case of not using the hand-held tester:

PREPARATION:

Remove the skid control ECU with the connectors still connected.

CHECK:

- (a) Turn the ignition switch ON.
- (b) Measure voltage between terminals IG1 (V19 - 7) and GND (V16 - 6, 31, V19 - 8, 16) of the skid control ECU.

OK:

Voltage: 10 - 14 V

OK

Check and replace skid control ECU.

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5	Check operation of ABS warning light.
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In case of using the hand-held tester:

PREPARATION:

- (a) Connect the hand-held tester to 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 skid control ECU.
- (c) Turn the ignition switch ON.

CHECK:

Check that the ABS warning light goes off.

OK

Check and replace combination meter (See page [BE-40](#)).

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6	Check for short circuit in harness and connector between combination meter and skid control ECU (See page IN-28).
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Repair or replace harness or connector.

OK

Check and replace skid control ECU.