

|            |                  |                           |
|------------|------------------|---------------------------|
| <b>DTC</b> | <b>Always ON</b> | <b>Malfunction in ECU</b> |
|------------|------------------|---------------------------|

## CIRCUIT DESCRIPTION

| DTC No.   | DTC Detecting Condition                                                                                                                                                                                            | Trouble Area                                                                                                                                                         |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Always ON | <p>Either of the following 1. or 2. is detected:</p> <ol style="list-style-type: none"> <li>1. The ECU connectors are OFF from the ECU.</li> <li>2. There is a malfunction in the ECU internal circuit.</li> </ol> | <ul style="list-style-type: none"> <li>• Battery</li> <li>• IC regulator</li> <li>• Power source circuit</li> <li>• ABS &amp; BA &amp; TRAC &amp; VSC ECU</li> </ul> |

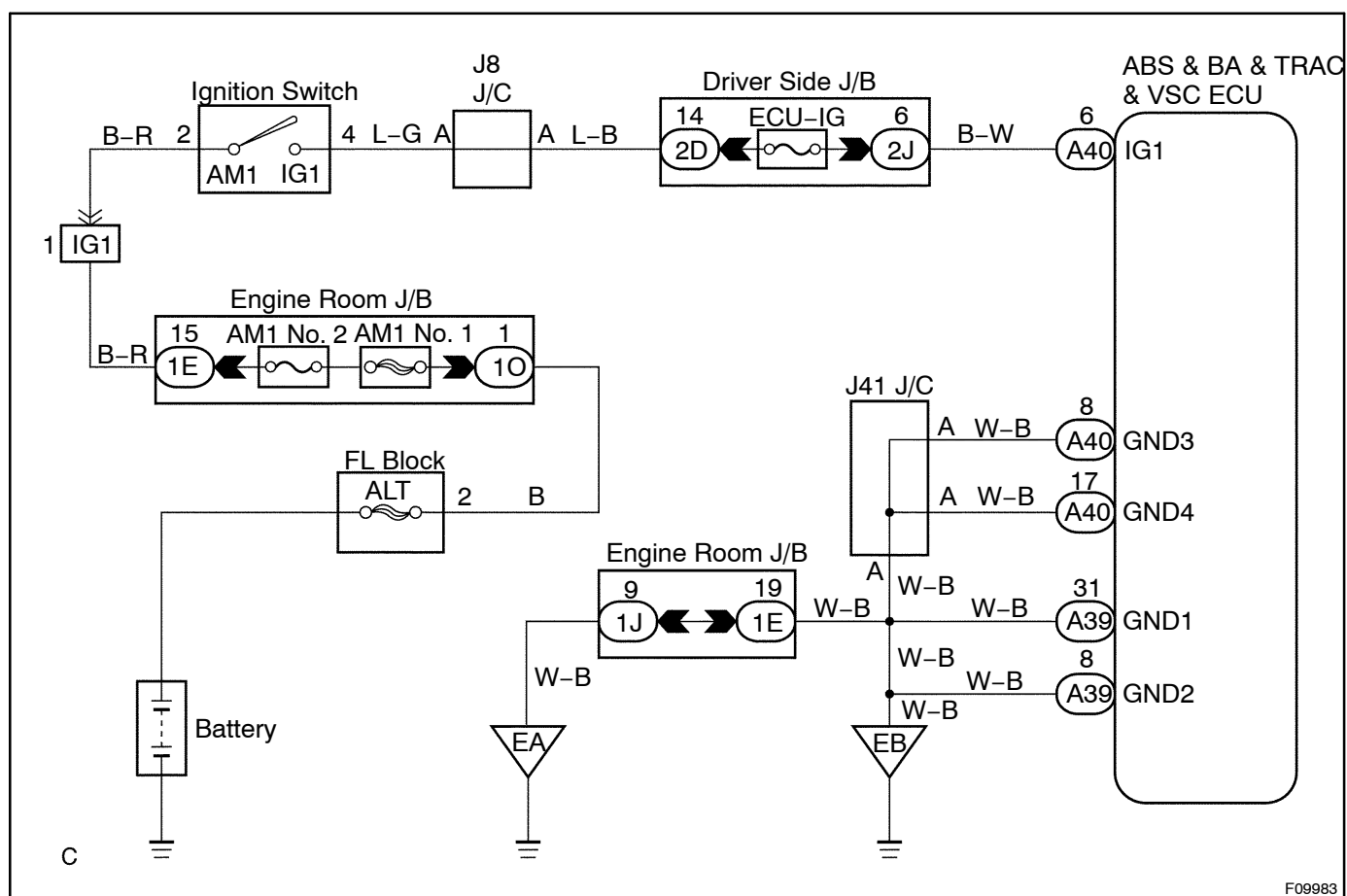
HINT:

There is a case that LEXUS 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 & TRAC & VSC controls. When fail safe function in ABS system is activated, "VSC TRAC" warning light and "VSC OFF" indicator light tight up.

## WIRING DIAGRAM



**INSPECTION PROCEDURE**

|          |                                                                         |
|----------|-------------------------------------------------------------------------|
| <b>1</b> | <b>Check that the ECU connectors are securely connected to the ECU.</b> |
|----------|-------------------------------------------------------------------------|

**NO****Connect the connector to the ECU.****YES**

|          |                       |
|----------|-----------------------|
| <b>2</b> | <b>Is DTC output?</b> |
|----------|-----------------------|

Check DTC on page [DI-308](#).**YES****Repair circuit indicated by the output code .****NO**

|          |                                       |
|----------|---------------------------------------|
| <b>3</b> | <b>Does ABS warning light go off?</b> |
|----------|---------------------------------------|

**YES****Check for open or short circuit in harness and connector between ECU-IG fuse and ECU (See page [IN-34](#)).****NO**

|          |                                        |
|----------|----------------------------------------|
| <b>4</b> | <b>Check battery positive voltage.</b> |
|----------|----------------------------------------|

**PREPARATION:**

Start the engine.

**CHECK:**

Check the battery positive voltage.

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

|          |                                                  |
|----------|--------------------------------------------------|
| <b>5</b> | <b>Check operation of the ABS warning light.</b> |
|----------|--------------------------------------------------|

**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 & VSC ECU.
- (c) Turn the ignition switch ON.

**CHECK:**

Check the ABS warning goes off.

OK

Check and replace combination meter (See page [BE-2](#)).

NG

|          |                                                                                                                                                                                           |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>6</b> | <b>Check for short circuit in harness and connector between combination meter and ABS &amp; BA &amp; TRAC &amp; VSC ECU, combination meter and DLC1 (See page <a href="#">IN-34</a>).</b> |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NG

Repair or replace harness or connector.

OK

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