

| DTC | C1241 / 41 | IG Power Source Circuit |
|-----|------------|-------------------------|
|-----|------------|-------------------------|

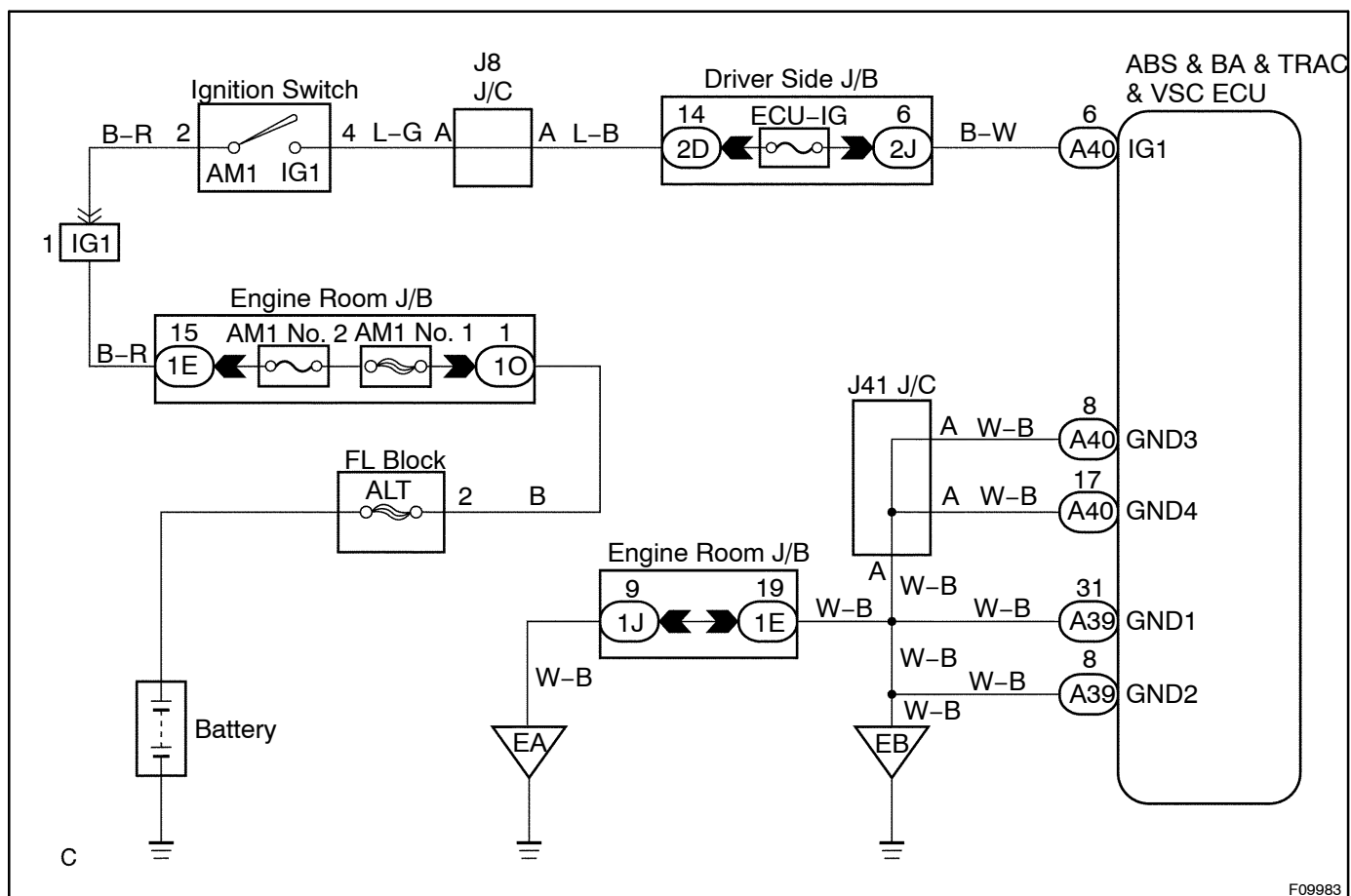
## CIRCUIT DESCRIPTION

| DTC No.    | DTC Detecting Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Trouble Area                                                                                                        |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| C1241 / 41 | <p>Detection of any of conditions 1. through 4.:</p> <ol style="list-style-type: none"> <li>1. Vehicle speed is 3 km/h (1.9 mph) or more and voltage of ECU terminal IG remains at below 9.5 V for more than 10 sec.</li> <li>2. While the condition that the solenoid relay is ON continues, ECU terminal IG1 voltage becomes 9.5 V or less, and the condition that the contact point of the solenoid relay is OFF continues for 0.2 sec. or more.</li> <li>3. The condition that ECU terminal IG1 voltage is more than 17.0 V continues for 1.2 sec. or more.</li> <li>4. While the solenoid relay outputs ON signal, ECU terminal IG1 voltage becomes more than 17.0 V, and the condition that the contact point of the solenoid relay is OFF continues for 0.2 sec. or more.</li> </ol> | <ul style="list-style-type: none"> <li>• Battery</li> <li>• IC regulator</li> <li>• Power source circuit</li> </ul> |

Fail safe function:

If trouble occurs in the power source circuit, the ECU cuts off current to the ABS solenoid relay and prohibits ABS & BA & TRAC & VSC controls and the brake system becomes normal.

## WIRING DIAGRAM



F09983

## INSPECTION PROCEDURE

|   |                                 |
|---|---------------------------------|
| 1 | Check battery positive voltage. |
|---|---------------------------------|

**OK:**

Voltage: 10 – 14 V

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Check and repair the charging system.

OK

|   |                                           |
|---|-------------------------------------------|
| 2 | Check voltage of the ECU IG power source. |
|---|-------------------------------------------|

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

### **PREPARATION:**

- Connect the LEXUS hand-held tester to the DLC3.
- Turn the ignition switch ON and push the LEXUS hand-held tester main switch ON.
- Select the DATALIST mode on the LEXUS hand-held tester.

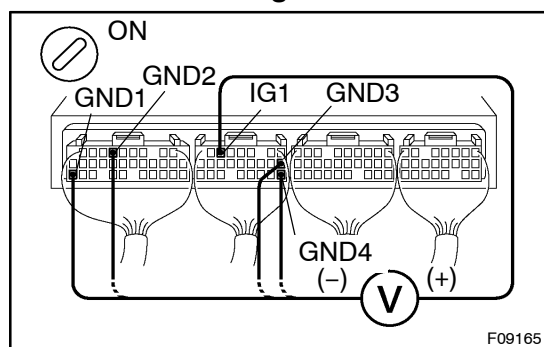
### **CHECK:**

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

**OK:**

"Normal" is displayed.

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



### **PREPARATION:**

Remove ABS & BA & TRAC & VSC ECU with connectors still connected.

### **CHECK:**

- Turn the ignition switch ON.
- Measure voltage between terminals IG1 and GND of ABS & BA & TRAC & VSC ECU connector.

**OK:**

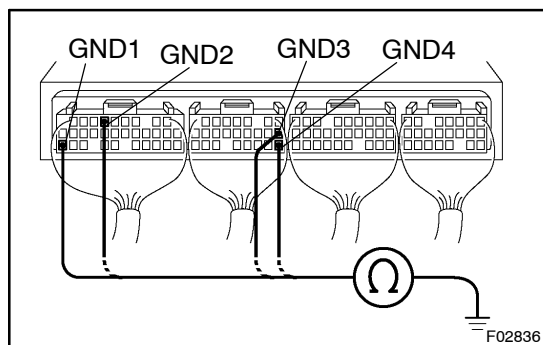
Voltage: 10 – 14 V

OK

Turn ignition switch OFF, check and replace ABS & BA & TRAC & VSC ECU.

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### 3 Check continuity between terminal GND of ABS & BA & TRAC & VSC ECU connector and body ground.

**CHECK:**

Measure resistance between terminal GND of ABS & BA & TRAC & VSC ECU connector and body ground.

**OK:**

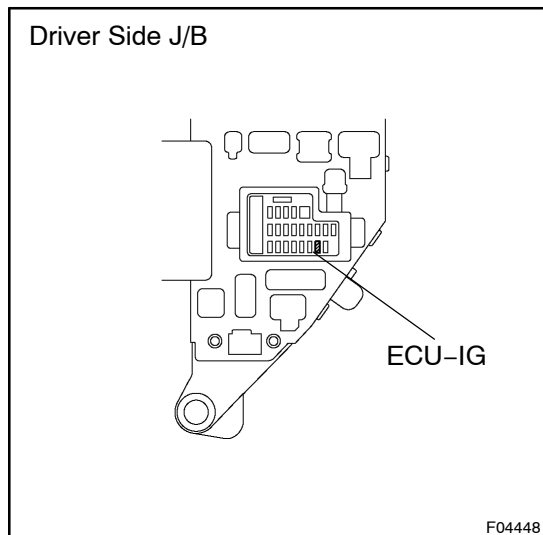
Resistance: 1 Ω or less

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Repair or replace harness or connector.

OK

### 4 Check ECU-IG fuse.

**PREPARATION:**

Remove ECU-IG fuse from driver side J/B.

**CHECK:**

Check continuity of ECU-IG fuse.

**OK:**

Continuity

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Check for short circuit in all the harness and components connected to ECU-IG fuse (See attached wiring diagram).

OK

Check for open circuit in harness and connector between ABS & BA & TRAC & VSC ECU and battery (See page [IN-34](#)).