

IG2 Power Source Circuit

DTC No.	DTC Detecting Condition	Trouble Area
C1242 / 42	With the vehicle running, open circuit in IG2 is detected for more than 7 sec.	• Battery • IC regulator • Power source circuit

The diagram illustrates the electrical circuit for the Ignition Switch (C). The circuit starts with the Battery connected to the Ignition Switch (7) via a W-R wire. The Ignition Switch (6) is connected to the Cowl Side J/B LH (12) via a B-R wire. The Cowl Side J/B LH (8) is connected to the ABS & BA & TRAC & VSC ECU (22) via a B-W wire. The Ignition Switch (2) is connected to the Engine Room J/B (10) via a W-R wire. The Engine Room J/B (1) is connected to the FL Block (1) via a B wire. The FL Block (1) is connected to the Battery. The Engine Room J/B (9) is connected to the Engine Room J/B (19) via a W-B wire. The Engine Room J/B (19) is connected to the J41 J/C (A) via a W-B wire. The J41 J/C (A) is connected to the ABS & BA & TRAC & VSC ECU (8) via a W-B wire. The J41 J/C (A) is connected to the ABS & BA & TRAC & VSC ECU (17) via a W-B wire. The J41 J/C (A) is connected to the ABS & BA & TRAC & VSC ECU (31) via a W-B wire. The J41 J/C (A) is connected to the ABS & BA & TRAC & VSC ECU (6) via a W-B wire. The ABS & BA & TRAC & VSC ECU (8) is connected to GND3. The ABS & BA & TRAC & VSC ECU (17) is connected to GND4. The ABS & BA & TRAC & VSC ECU (31) is connected to GND1. The ABS & BA & TRAC & VSC ECU (6) is connected to GND2.

INSPECTION PROCEDURE

1	Check battery positive voltage.
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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.
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In case of using the LEXUS hand-held tester:

PREPARATION:

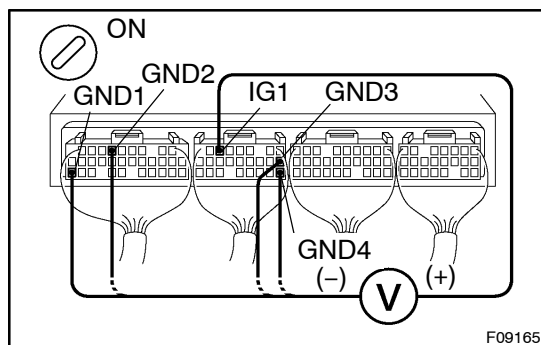
- (a) Connect the LEXUS hand-held tester to the DLC3.
- (b) Turn the ignition switch ON and push the LEXUS hand-held tester main switch ON.
- (c) Select the DATALIST mode on the LEXUS hand-held tester.

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

CHECK:

- (a) Turn the ignition switch ON.
- (b) Measure voltage between terminals IG2 and GND of ABS & BA & TRAC & VSC ECU connector.

OK:

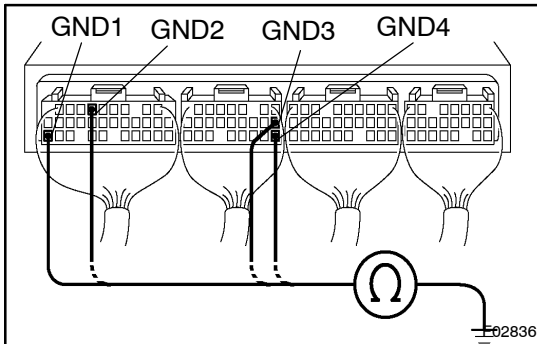
Voltage: 10 – 14 V

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

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