

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

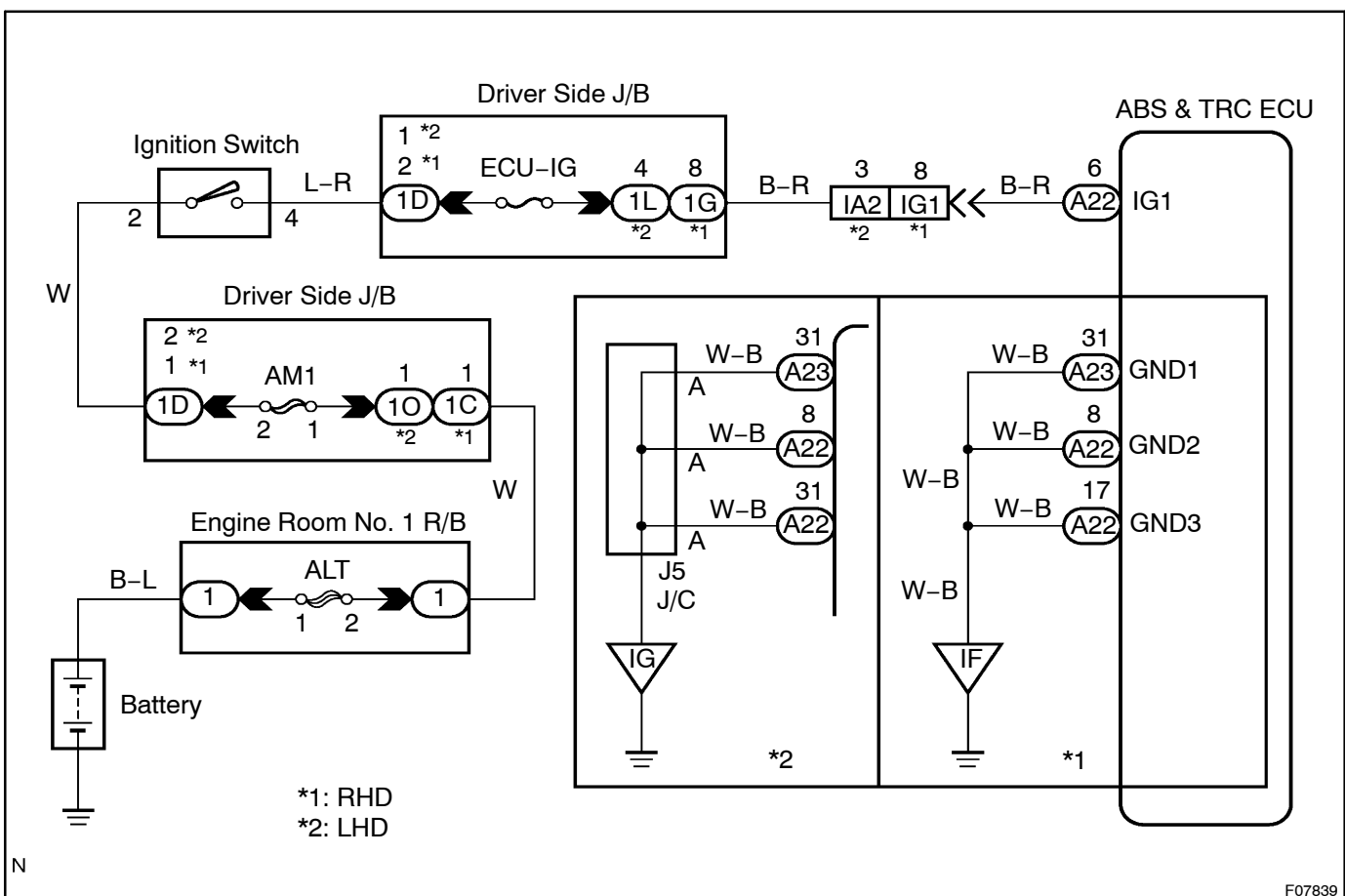
CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
C1241 / 41	Detection of any of conditions 1. through 4.: 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. 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. 3. The condition that ECU terminal IG1 voltage is more than 17.2 V continues for 1.2 sec or more. 4. While the solenoid relay outputs ON signal, ECU terminal IG1 voltage becomes more than 17.2 V, and the condition that the contact point of the solenoid relay is OFF continues for 0.2 sec. or more.	<ul style="list-style-type: none"> • Battery • Charging system • Power source circuit • ABS & TRC ECU

Fail safe function:

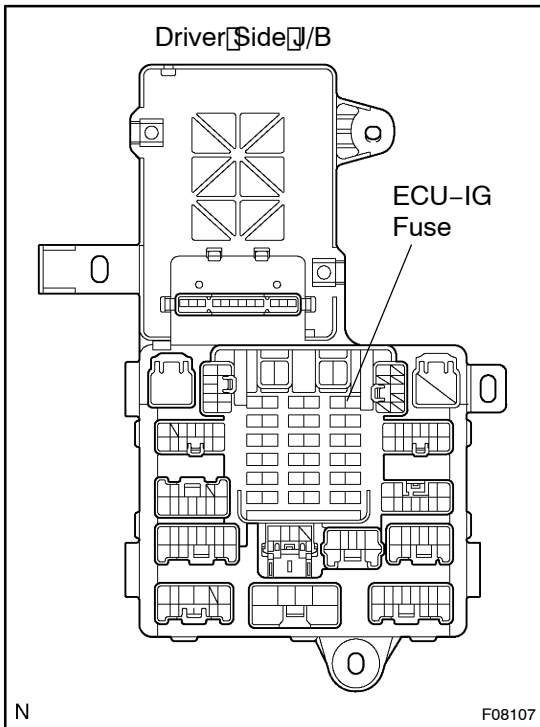
If any trouble occurs in the power source circuit, the ECU cuts off current to the ABS solenoid relay and prohibits ABS & TRC controls and the brake system becomes normal.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check ECU-IG fuse.

**PREPARATION:**

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

CHECK:

Check continuity of ECU-IG fuse.

OK:

Continuity

NG

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

OK

2 Check battery voltage.

OK:

Voltage: 10 - 14 V

NG

Check and repair the charging system (See page CH-1).

OK

3	Check voltage of the ECU IG power source.
----------	--

In case of using the hand-held tester.

PREPARATION:

- (a) Connect the hand-held tester to the 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.

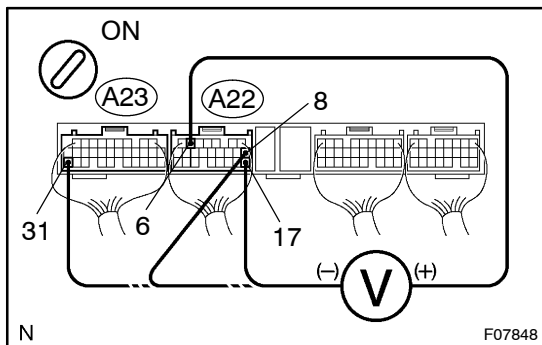
CHECK:

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

OK:

"Normal" is displayed.

In case of not using the hand-held tester.



PREPARATION:

Remove the ABS & TRC ECU with connectors still connected.

CHECK:

- (a) Turn the ignition switch ON.
- (b) Measure voltage between terminals IG1 (A22 - 6) and GND (A23 - 31, A22 - 8, 17) of ABS & TRC ECU.

OK:

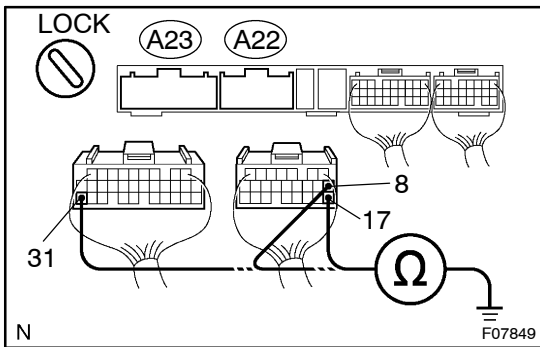
Voltage: 10 - 14 V

OK

Ignition switch OFF, check and replace ABS & TRC ECU.

NG

4 Check continuity between terminal GND of ABS & TRC ECU connector and body ground.

**CHECK:**

- Disconnect the 2-pin connector (A22, A23) from the ABS & TRC ECU.
- Measure resistance between terminal GND (A22 - 8, 7, A23 - 31) of ABS & TRC ECU connector and body ground.

OK:

Resistance: 1 Ω or less

NG

Repair or replace harness or connector.

OK

Check for open circuit in harness and connector between ABS & TRC ECU and battery (See page IN-32).