DI292–07

DTC	C 1241 / 41	IG Power Source Circuit

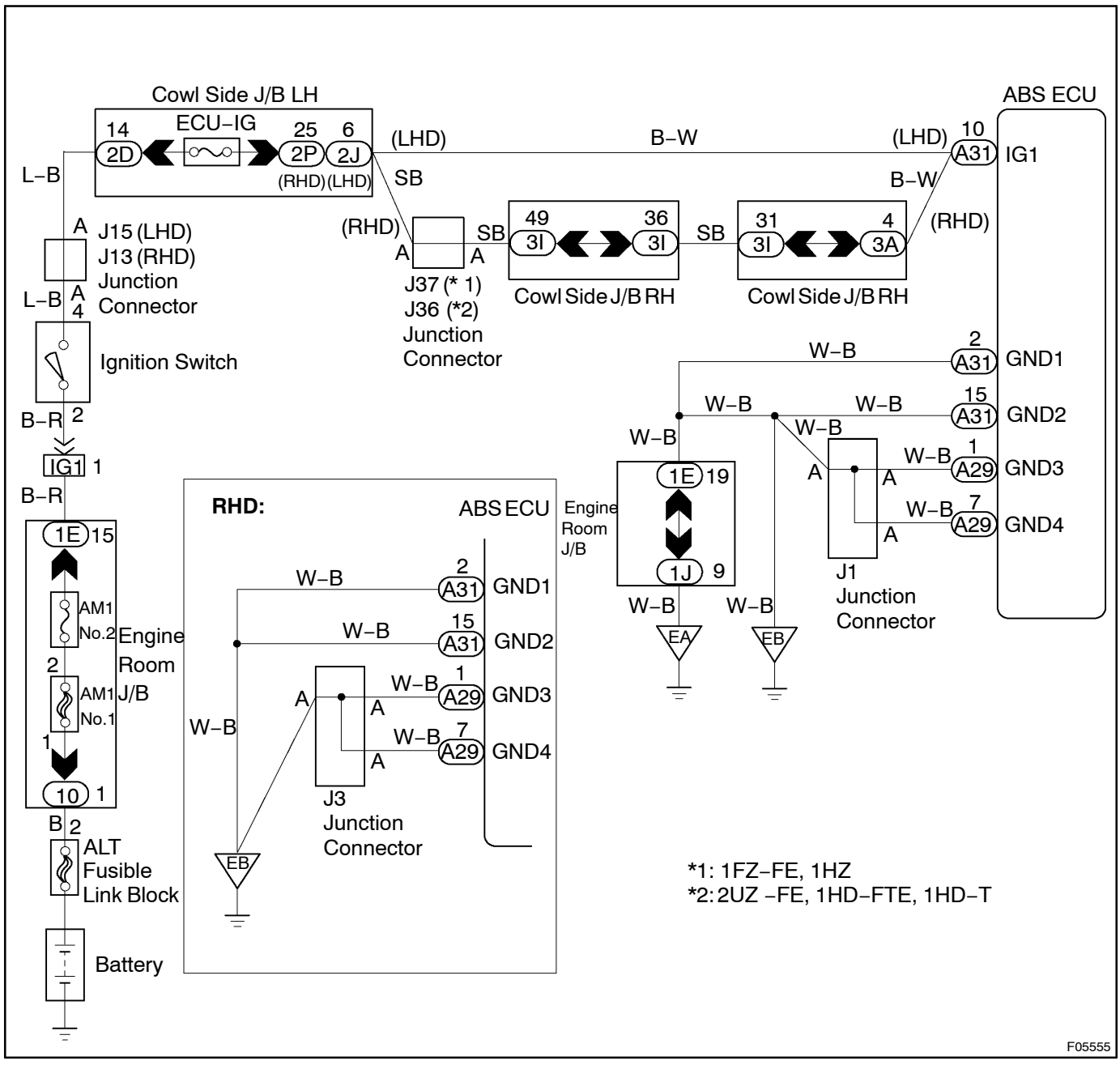
CIRCUIT DESCRIPTION

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 secs. (2) While the condition that the solenoid relay is ON continues, ECU terminal IG 1 voltage becomes 9.5 V or less, and the condition that the contact point of the solenoid relay is OFF continues for 0.2 secs. or more. (3) The condition that ECU terminal IG 1 voltage is more than 18.5 V continues. (4) While the solenoid relay outputs ON signal, ECU terminal IG 1 voltage becomes 9.5 – 18.5 V, and the condition that the contact point of the solenoid relay is OFF continues for 0.2 secs. or more.	• Battery • IC regulator • Power source circuit

Fail safe function:

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

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Check battery voltage.**

OK:

Voltage: 10 – 14 V

NG → **Check and repair the charging system.**

OK

2	**Check voltage of the ECU IG power source.**

IN CASE OF USING 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.

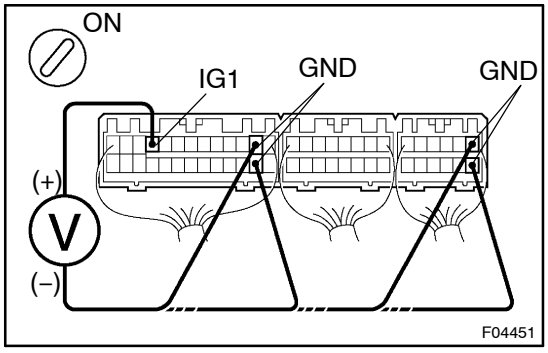
CHECK:

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

OK:

"Normal" is displayed.

IN CASE OF NOT USING HAND –HELD TESTER:



PREPARATION:

Remove ABS ECU with connectors still connected.

CHECK:

(a) Turn the ignition switch ON.

(b) Measure voltage between terminals IG 1 and GND of ABS ECU connector.

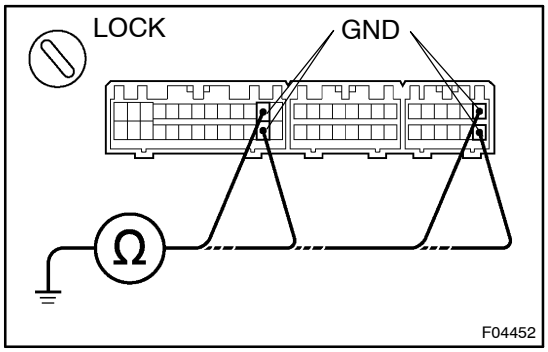
OK:

Voltage: 10 – 14 V

OK → **Ignition switch OFF, check and replace ABS ECU.**

NG

3	**Check continuity between terminal GND of ABS ECU connector and body ground.**



CHECK:

Measure resistance between terminal GND of ABS ECU connector and body ground.

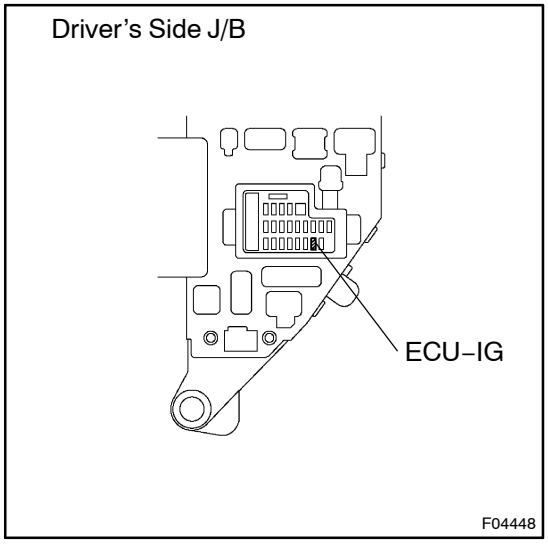
OK:

Resistance: 1 Ω or less

NG → **Repair or replace harness or connector.**

OK

4	**Check ECU–IG fuse.**



PREPARATION:

Remove ECU–IG fuse from driver's 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

Check for open circuit in harness and connector between ABS ECU and battery.
(See page IN–24)