DTC	C1241/41	LOW BATTERY POSITIVE VOLTAGE OR ABNORMALLY HIGH BATTERY POSITIVE VOLTAGE

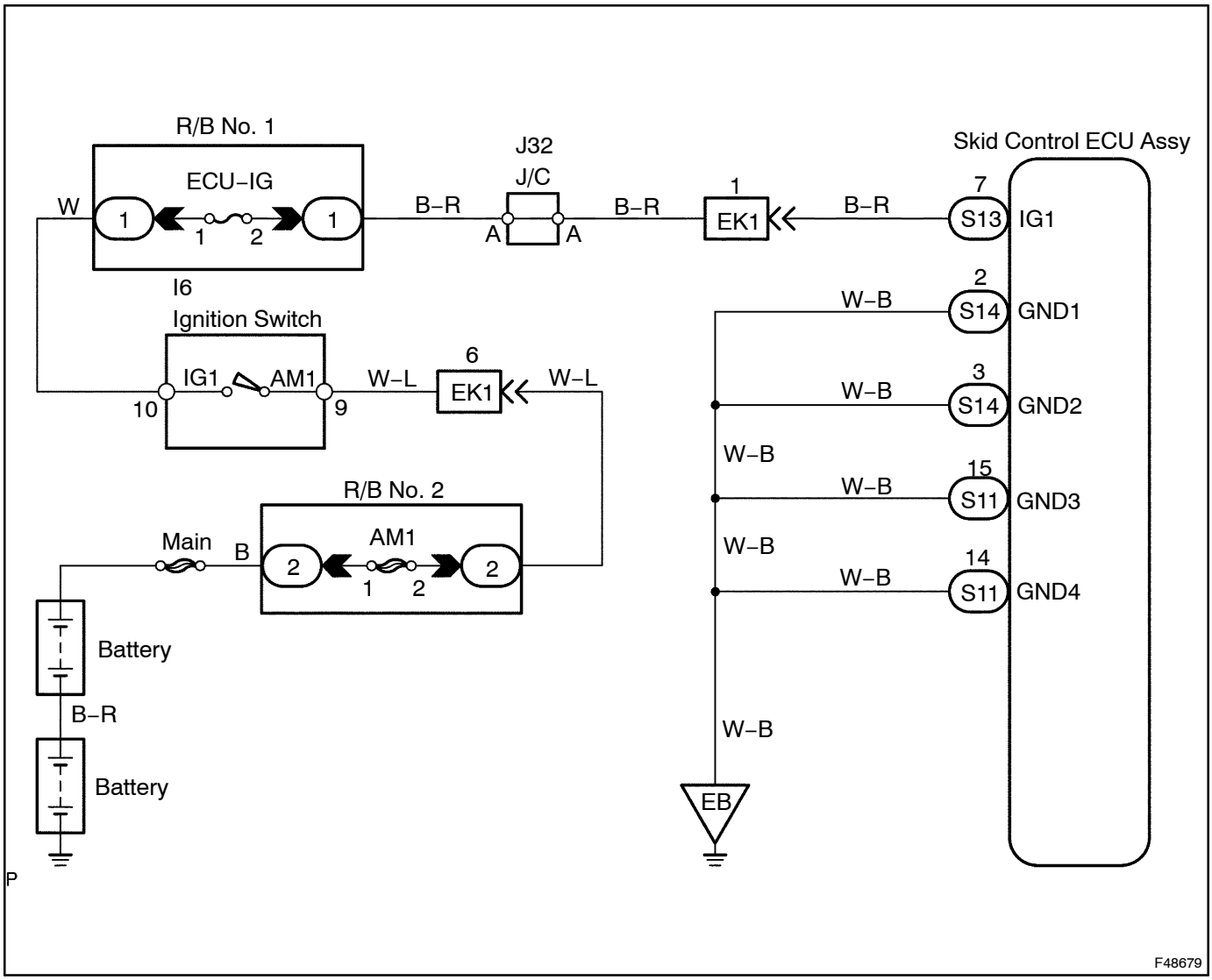
CIRCUIT DESCRIPTION

DTC No.	DTC Detection Condition	Trouble Area
C1241/41	Vehicle speed is 3 km/h (1.9 mph) or more and voltage of ECU terminal IG1 remains below 19 V for more than 10 sec.	• Battery • Charging system • Power source circuit

HINT:

- If the brake pedal is depressed firmly, the brake force may be lowered.
- Fail–safe function:
  If any trouble occurs in the power source circuit, the ECU will cut off current to the ABS SOL MAIN relay and prohibit ABS controls and BRAKE ASSIST.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	INSPECT BATTERY

(a) Check battery voltage.
Standard: 20 to 32 V

NG → **CHECK AND REPAIR CHARGING SYSTEM**

OK

2	INSPECT FUSE (ECU–IG)

(a) Remove the ECU–IG fuse from the R/B No. 1.
(b) Measure the resistance.
Standard: Below 1Ω

NG → **REPLACE FUSE**

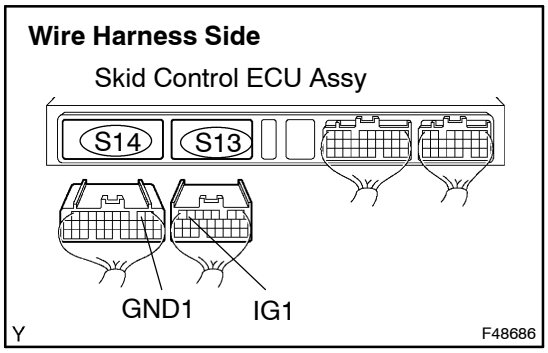
OK

3	INSPECT SKID CONTROL ECU (IG1 VOLTAGE)

When using hand–held tester:
(a) Connect the hand–held tester (with 24 V VIM) to the DLC3.
(b) Start the engine.
(c) Select the DATA LIST on the hand–held tester.
(d) Check the voltage condition output from the ECU displayed on the hand–held tester.
Skid control ECU assy:

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
IG VOLTAGE	ECU power supply voltage / UNDER / NORMAL / OVER	OVER: 32 V NORMAL: 20 to 32 V UNDER: Below 19 V	–

OK: ”NORMAL” is displayed.



When not using the hand–held tester:
(e) Disconnect the S13 and S14 ECU connectors.
(f) Turn the ignition switch ON.
(g) Measure the voltage according to the table below.
Standard:

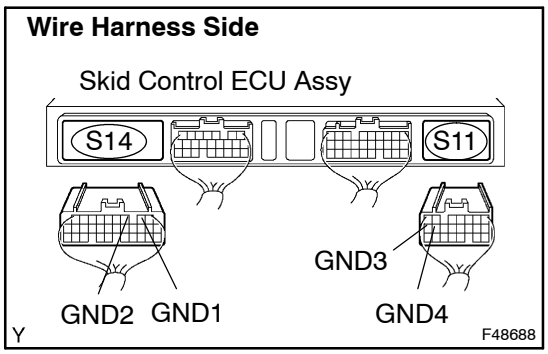
Tester Connection	Specified Condition
S13–7 (IG1) – S14–2 (GND1)	20 to 32 V

NG → **Go to step 4**

OK

Go to step 5

4 CHECK WIRE HARNESS (SKID CONTROL ECU ASSY – BODY GROUND)



(a) Disconnect the S11 and S14 ECU connectors.
(b) Measure the resistance according to the table below.
Standard:

Tester Connection	Specified Condition
S11–14 (GND4) – Body ground	Below 1 Ω
S11–15 (GND3) – Body ground	Below 1 Ω
S14–3 (GND2) – Body ground	Below 1 Ω
S14–2 (GND1) – Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

REPLACE SKID CONTROL ECU ASSY (See page 01–27)

5 RECONFIRM DTC

(a) Check the DTC (see page 05–191).
HINT:
After erasing the DTC and driving the vehicle at more than 3 km/h (1.8 mph), check for DTCs.

A	Malfunction Code
B	No DTC code output

B → **NO PROBLEM**

A

REPLACE SKID CONTROL ECU ASSY (See page 01–27)