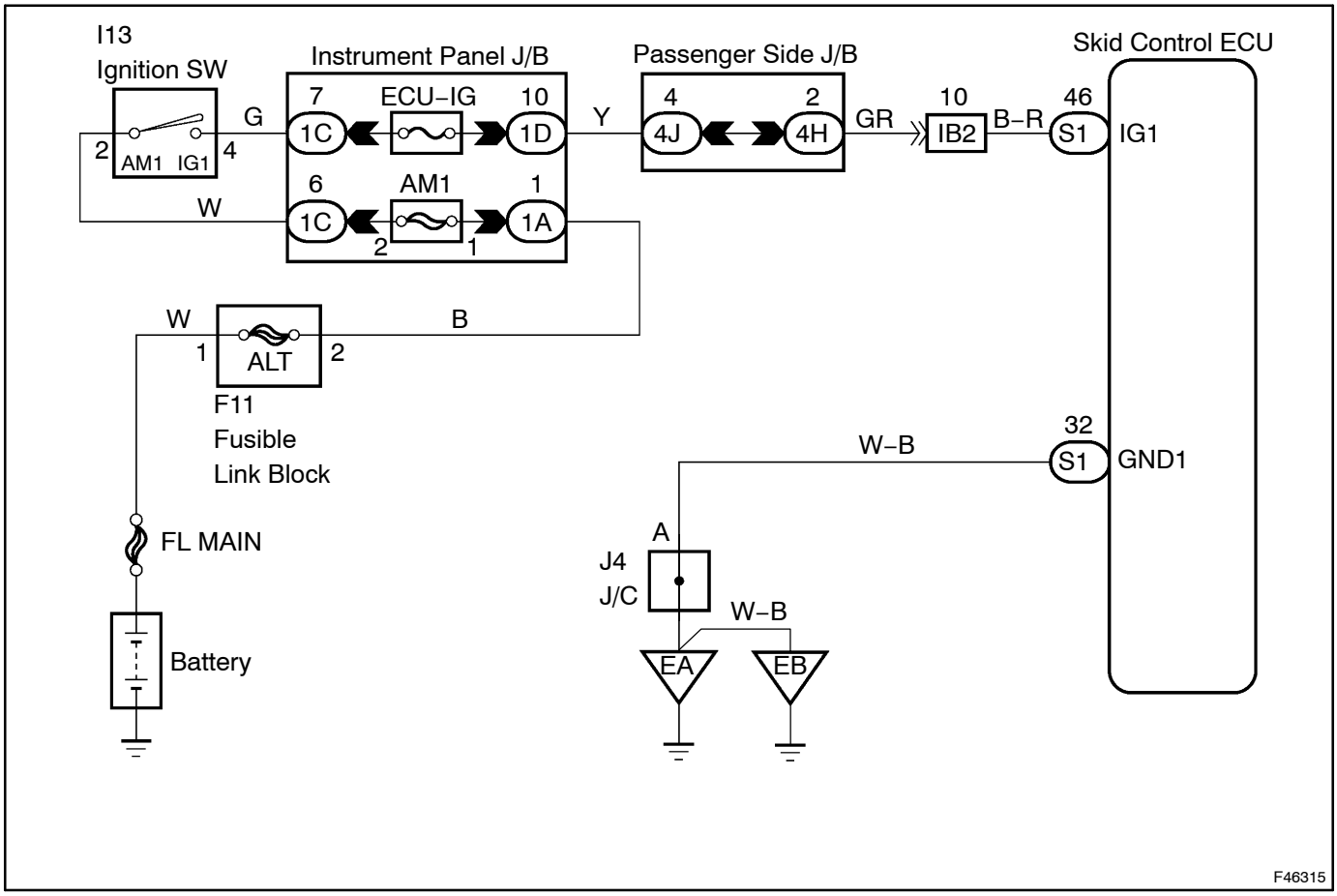
DTC C1241/41 LOW BATTERY POSITIVE VOLTAGE

CIRCUIT DESCRIPTION

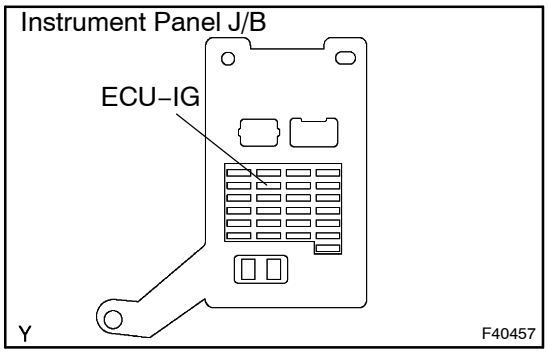
DTC No.	DTC Detecting Condition	Trouble Area
C1241/41	When any of the following (1 to 2) is detected: (1) Any of the following conditions continues for at least 10 seconds. • Vehicle speed is more than 2 mph (3 km/h). • IG1 terminal voltage is less than 9.5 V. (2) Any of the following conditions continues for at least 0.2 seconds. • Solenoid relay remains ON. • IG1 terminal voltage is less than 9.5 V. • Relay contact is open.	• Battery • Charging system • Power source circuit

WIRING DIAGRAM



INSPECTION PROCEDURE

1	INSPECT FUSE(ECU–IG FUSE)



(a) Remove ECU–IG fuse from the instrument panel J/B.
(b) Check continuity of ECU–IG fuse.
Standard:

ECU–IG Fuse	Below 1 Ω (Continuity)

NG → **INSPECT FOR SHORT CIRCUIT IN ALL HARNESS AND COMPONENTS CONNECTED TO ECU–IG FUSE**

OK

2	INSPECT BATTERY

(a) Check the battery voltage.
Standard:

Tester Connection	Specified Condition
Battery terminal ((+) – (–))	11 to 14 V

NG → **INSPECT CHARGING SYSTEM**

OK

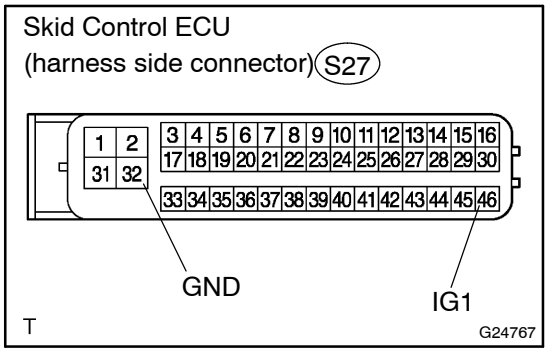
3 INSPECT SKID CONTROL ECU TERMINAL VOLTAGE(IG1 TERMINAL)

WHEN USING HAND–HELD TESTER:

(a) Connect the hand–held tester to the DLC3.
(b) Start the engine.
(c) Select the DATA LIST mode on the hand–held tester.
(d) Read the voltage condition output from the ECU displayed on the hand–held tester.

Item	Measurement Item / Range (Display)	Normal Condition
IG VOLTAGE	ECU power supply voltage / TOO LOW / NORMAL	NORMAL: 9.5 V or over TOO LOW: Below 9.5 V

OK:
"Normal" is displayed.



WHEN NOT USING HAND–HELD TESTER:

(a) Disconnect the skid control ECU connector S27.
(b) Turn the ignition switch to the ON position.
(c) Measure the voltage according to the value(s) in the table below.

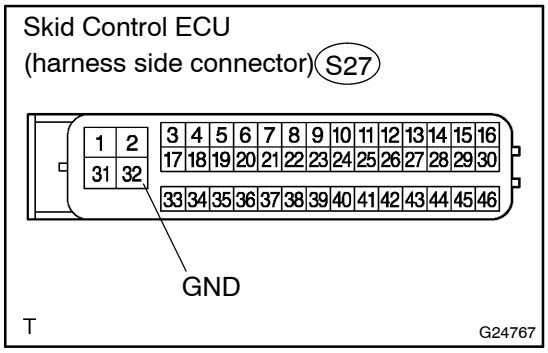
Standard:

Tester Connection	Specified Condition
S27–46 (IG1) – S27–32 (GND)	10 to 14 V

NG → **Go to step 4**

OK

4 INSPECT SKID CONTROL ECU CONNECTOR(GND TERMINAL CONTINUITY)



(a) Disconnect the skid control ECU connector S27.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
S27–32 (GND) – Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (GND TERMINAL – BODY GROUND)**

OK

CHECK AND REPAIR HARNESS AND CONNECTOR (IG1 TERMINAL – BATTERY)