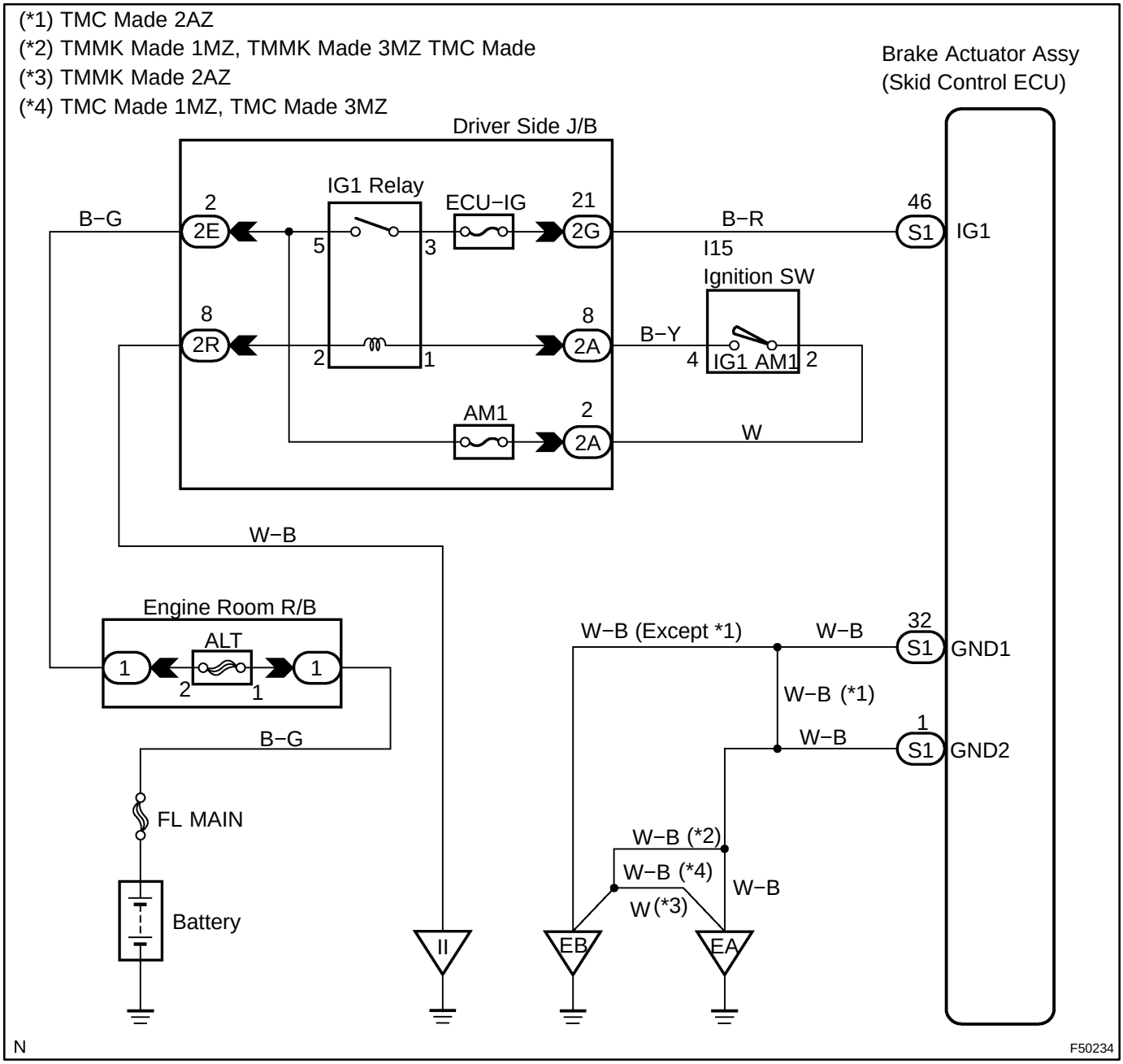
DTC C1241/41 LOW BATTERY POSITIVE VOLTAGE

CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
C1241/41	When any of the following (1 to 2) is detected: (1) All the following conditions continue 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) All the following conditions continue 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

(*1) TMC Made 2AZ
(*2) TMMK Made 1MZ, TMMK Made 3MZ TMC Made
(*3) TMMK Made 2AZ
(*4) TMC Made 1MZ, TMC Made 3MZ

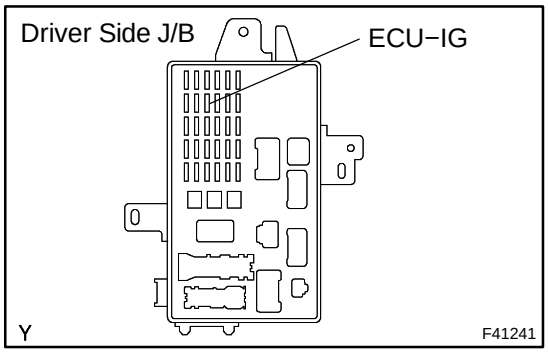


INSPECTION PROCEDURE

NOTICE:

When replacing the brake actuator assy, perform zero point calibration (see page 05−987).

1	INSPECT FUSE(ECU−IG FUSE)



(a) Remove the ECU−IG fuse from the driver side J/B.

(b) Check continuity of the 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:

Voltage: 11 to 14 V

NG → **INSPECT CHARGING SYSTEM (SEE PAGE 19−14 AND 19−39)**

OK

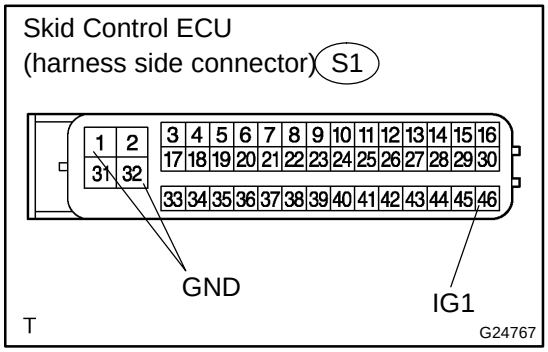
3 INSPECT SKID CONTROL ECU TERMINAL VOLTAGE(IG1 TERMINAL)

WHEN USING HAND−HELD TESTER:

(a) Connect the hand−held tester to the DLC3.
(b) Start the engine.
(c) Select DATA LIST mode 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

(d) Measure the voltage condition output from the ECU displayed on the hand−held tester.
OK:
"Normal" is displayed.



WHEN NOT USING HAND−HELD TESTER:

(a) Disconnect the skid control ECU connector S1.
(b) Turn the ignition switch to the ON position.
(c) Measure the voltage according to the value(s) in the table below.
Standard:

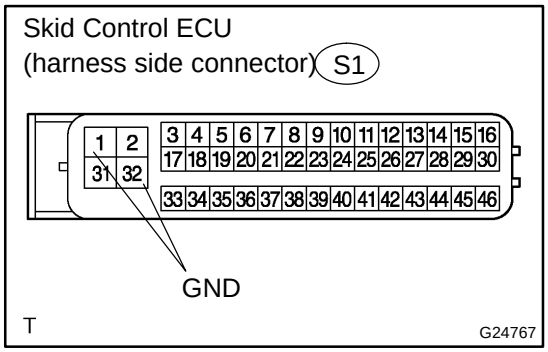
Tester Connection	Specified Condition
S1−46 (IG1) − S1−1 (GND2)	10 to 14 V
S1−46 (IG1) − S1−32 (GND1)	10 to 14 V

NG → **Go to step 4**

OK

REPLACE BRAKE ACTUATOR ASSY (SEE PAGE 32−63)

4 INSPECT SKID CONTROL ECU CONNECTOR(GND TERMINAL CONTINUITY)



(a) Disconnect the skid control ECU connector S1.
(b) Measure the resistance according to the value(s) in the table below.
Standard:

Tester Connection	Specified Condition
S1−1 (GND2) − Body ground	Below 1 Ω
S1−32 (GND1) − 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)