DTC	C1242/42	IG2 Power Source Circuit

DESCRIPTION

If there is a problem with the master cylinder solenoid (skid control ECU) power supply circuit, the skid control ECU outputs the DTC and prohibits operation under the fail-safe function.
If the voltage supplied to terminal IG2 is not within the DTC detection threshold due to malfunctions in parts such as the battery and generator circuit, this DTC is stored.

BC

DTC No.	DTC Detecting Conditions	Trouble Areas
C1242/42	Vehicle speed 2 mph (3 km/h) or more and voltage of skid control ECU terminal IG2 remains at below 6.5 for more than 7 seconds.	• Battery • Charging system • IGN fuse • Power source circuit • Master cylinder solenoid (skid control ECU)

WIRING DIAGRAM

See page BC-97.

INSPECTION PROCEDURE

NOTICE:
When replacing the master cylinder solenoid, perform zero point calibration (See page BC-24).

1	CHECK BATTERY VOLTAGE

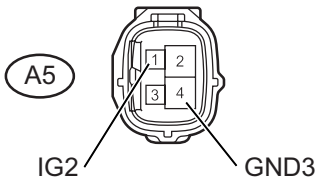
(a) Check the battery voltage.
Standard voltage:
11 to 14 V

NG → **CHECK CHARGING SYSTEM**

OK

2	CHECK SKID CONTROL ECU TERMINAL VOLTAGE (IG2)

Skid Control ECU
(harness side connector):



(a) Disconnect the skid control ECU A5 connector.
(b) Measure the voltage.
Standard voltage

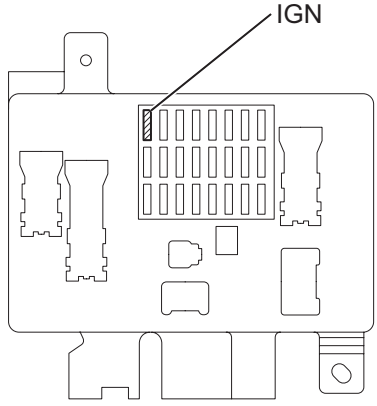
Tester Connection	Specified Condition
A5-1 (IG2) - A5-4 (GND3)	11 to 14 V

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

OK

3	INSPECT FUSE (IGN)

Driver Side J/B:



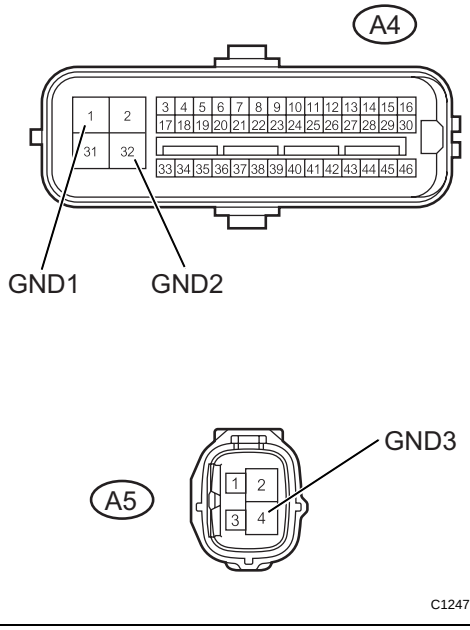
(a) Remove the IGN fuse from the driver side J/B.
(b) Measure the resistance.
Standard resistance:
Below 1 Ω

NG → **CHECK FOR SHORTS IN ALL HARNESSES AND CONNECTORS CONNECTED TO FUSE AND REPLACE FUSE**

OK

4	CHECK HARNESS AND CONNECTOR (GND TERMINAL CONTINUITY)

Skid Control ECU
(harness side connector):



(a) Confirm that the skid control ECU connector and speed sensor connector are properly connected.
(b) Disconnect the skid control ECU connectors.
(c) Inspect both the connector case and the terminal for deformation and corrosion.
OK:
No deformation or corrosion.
(d) Measure the resistance.
Standard resistance

Tester Connection	Specified Condition
A4-1 (GND1) - Body ground	Below 1 Ω
A4-32 (GND2) - Body ground	Below 1 Ω
A5-4 (GND3) - Body ground	Below 1 Ω

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

OK

5	RECONFIRM DTC

(a) Clear the DTC (See page BC-45).

(b) Drive the vehicle at a speed of 2 mph (3 km/h) or more for 7 seconds or more.
(c) Check if the same DTC is output (See page BC-45).

B → **END**

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REPLACE MASTER CYLINDER SOLENOID