DTC C1242/42 OPEN CIRCUIT IN IG2 CIRCUIT

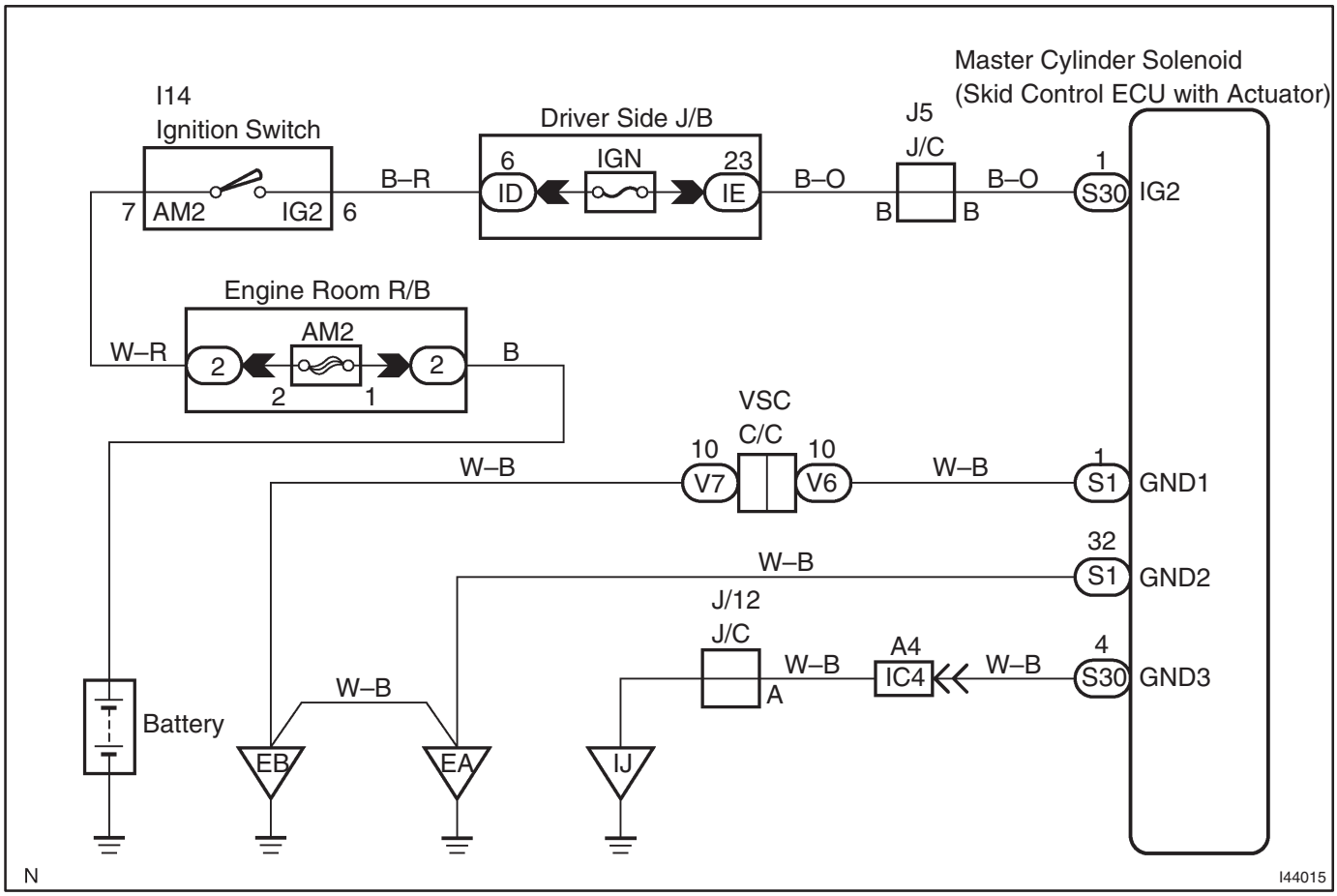
CIRCUIT DESCRIPTION

If there is a problem with the master cylinder solenoid power supply circuit, the skid control ECU outputs DTCs and prohibits operation under the fail safe function.

If the voltage supplied to the IG2 terminal is not within the DTC detection threshold due to malfunctions in such as the battery and alternator circuit, this DTC is stored.

DTC No.	DTC Detection Condition	Trouble Area
C1242/42	Vehicle speed is 1.9 mph (3 km/h) or more and voltage of ECU IG2 terminal remains at below 6.5 V for more than 7 seconds.	• Battery • IGN fuse • IC regulator • Power source circuit

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

When replacing the master cylinder solenoid, perform zero point calibration (see page 05–744).

1	INSPECT BATTERY

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

NG → **INSPECT CHARGING SYSTEM (SEE PUB. NO. RM1017E, PAGE 19–6) (SEE PUB. NO. RM990E, PAGE 19–36)**

OK

2	INSPECT FUSE (IGN FUSE)

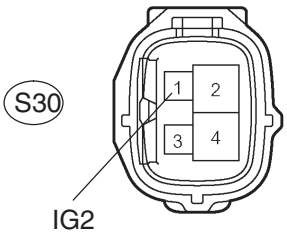
(a) Remove the IGN fuse from the driver side J/B.
(b) Check the IGN fuse.
Standard:
Below 1 Ω

NG → **CHECK FOR SHORT IN ALL HARNESS AND CONNECTOR CONNECTED TO FUSE AND REPLACE FUSE**

OK

3	INSPECT SKID CONTROL ECU (IG2 TERMINAL VOLTAGE)

Skid Control ECU (Wire Harness Side)
Connector Front View:



(a) Install the IGN fuse.
(b) Disconnect the skid control ECU (S30) connector.
(c) Turn the ignition switch to the ON position.
(d) Measure the voltage according to the value(s) in the table below.
Standard:

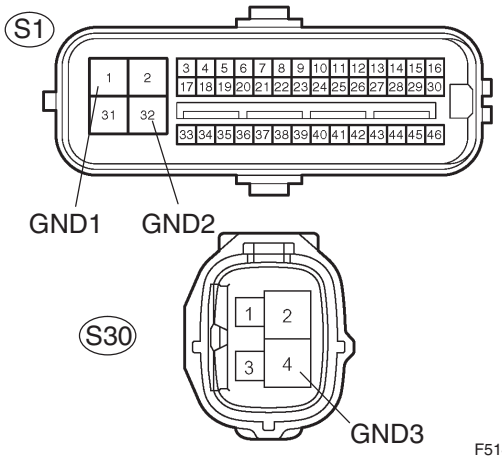
Tester Connection	Specified Condition
S30–1 (IG2) – Body ground	10 to 14 V

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (IG2 CIRCUIT)**

OK

4 INSPECT SKID CONTROL ECU (GND TERMINAL CONTINUITY)

Skid Control ECU (Wire Harness Side) Connector Front View:



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

Standard:

Tester Connection	Specified Condition
S1–1 (GND1) – Body ground	Below 1 Ω
S1–32 (GND2) – Body ground	Below 1 Ω
S30–4 (GND3) – Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (GND CIRCUIT)**

OK

5 RECONFIRM DTC

(a) Clear the DTC (see page 05–766).
(b) Check if the same DTC is detected (see page 05–766).

HINT:
Reinstall the sensors, connectors, etc. and restore the previous vehicle conditions before rechecking for DTCs.

Result:

DTC is output	A
DTC is not output	B

B → **END**

A

REPLACE MASTER CYLINDER SOLENOID (SEE PAGE 32–12)