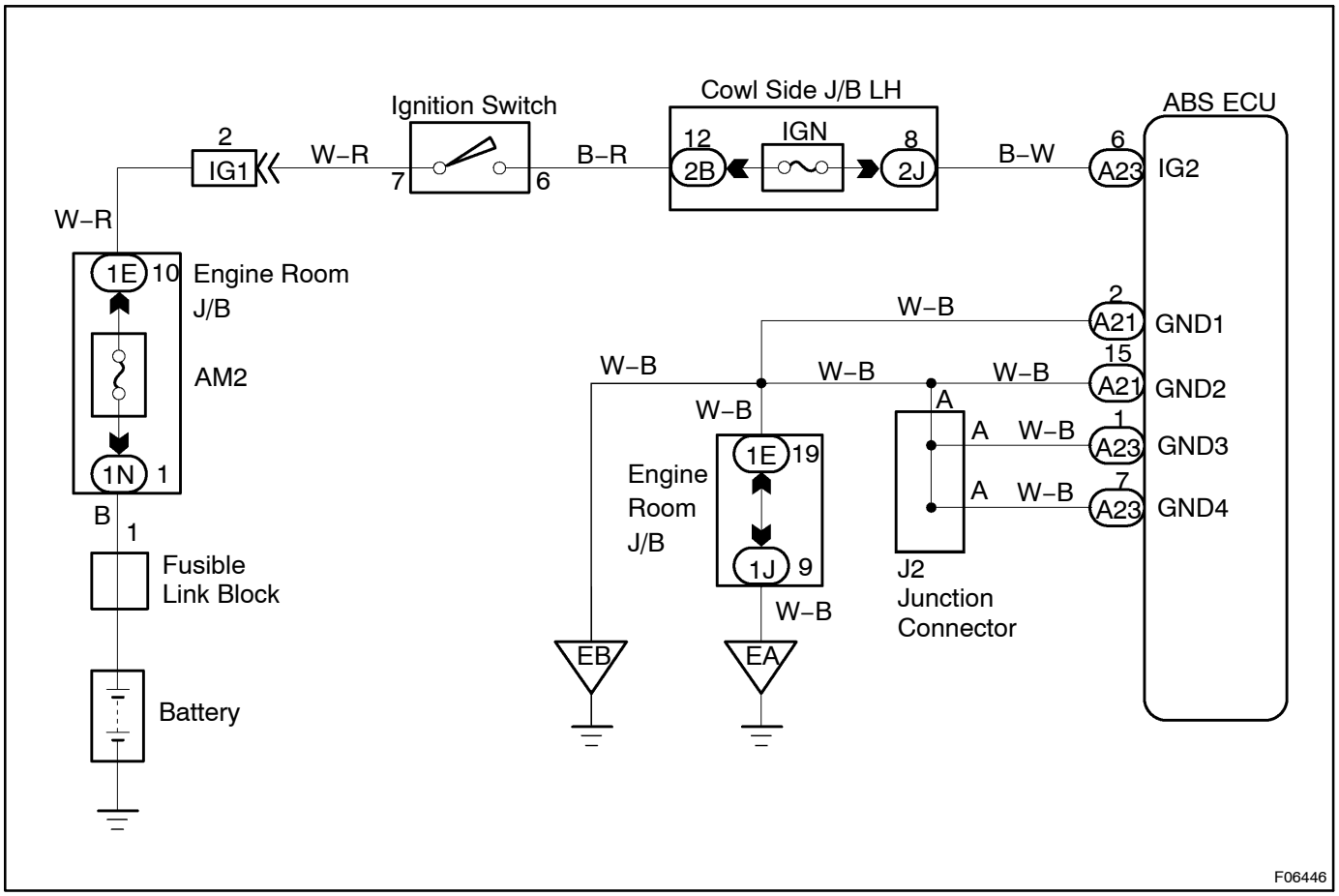
DI293–12

DTC	C1242 / 42	IG2 Power Source Circuit

CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
C1242 / 42	With the vehicle running, open circuit in IG2 is detected for more than 7 sec.	• Battery • Charging system • Power source circuit

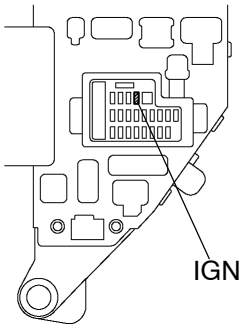
WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Check IGN fuse.**

Cowl Side J/B



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PREPARATION:

Remove the IGN fuse from the cowl side J/B.

CHECK:

Check continuity of IGN fuse.

OK:

Continuity

NG → **Check for short circuit in all the harness and components connected to IGN fuse (See attached wiring diagram).**

OK

2	**Check battery positive voltage.**

OK:

Voltage: 10 – 14 V

NG → **Check and repair the charging system (See page CH–2).**

OK

3	**Check voltage of the ECU IG2 power sauce.**

In case of using TOYOTA hand–held tester:

PREPARATION:

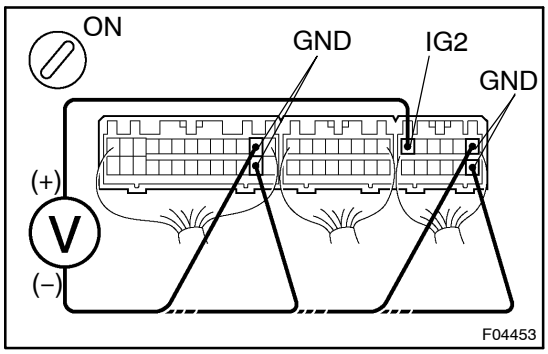
(a) Connect the TOYOTA hand–held tester to the DLC3.
(b) Turn the ignition switch ON and push the TOYOTA hand–held tester main switch ON.
(c) Select the DATALIST mode on the TOYOTA hand–held tester.

CHECK:

Check the voltage condition output from the ECU displayed on the TOYOTA hand–held tester.

OK:

"Normal" is displayed.



In case of not using TOYOTA hand–held tester:

PREPARATION:

Remove the ABS ECU with connectors still connected.

CHECK:

(a) Turn the ignition switch ON.
(b) Measure voltage between terminals IG2 and GND of ABS ECU connector.

OK:

Voltage: 10 – 14 V

OK	**Ignition switch OFF, check and replace ABS ECU.**

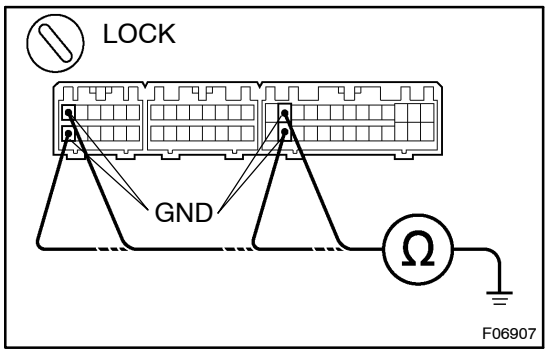
NG

4	**Check for open circuit in harness and connector between tarminal IG2 of ABS ECU and battely (See page IN–34).**

NG	**Repair or replace harness or connector.**

OK

5	**Check continuity between terminal GND of ABS ECU connector and body ground.**



PREPARATION:
Disconnect the connector from the ABS ECU.
CHECK:
Measure resistance between terminal GND of ABS ECU harness side connector and body ground.
OK:
Resistance: 1 Ω or less

NG → **Repair or replace harness or connector.**

OK

Proceed to next circuit inspection show on problem symptoms table (See page DI–240).