DI3RQ–01

DTC	C1242 / 42	IG2 Power Source Circuit

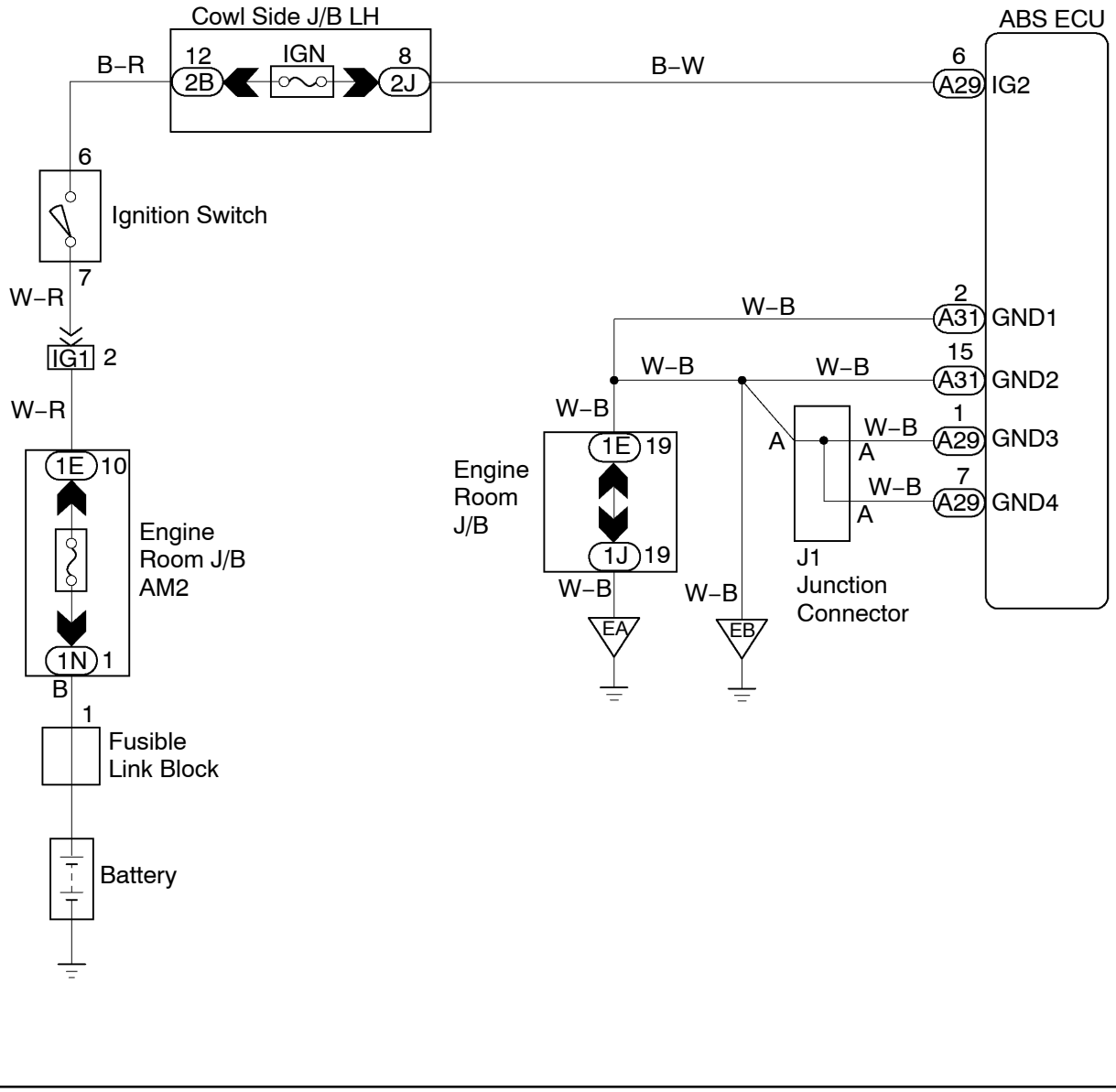
CIRCUIT DESCRIPTION

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

Fail safe function:
If trouble occurs in the power source circuit, the ECU cuts off current to the ABS solenoid relay and prohibits ABS control and the brake system becomes normal.

WIRING DIAGRAM

LHD:



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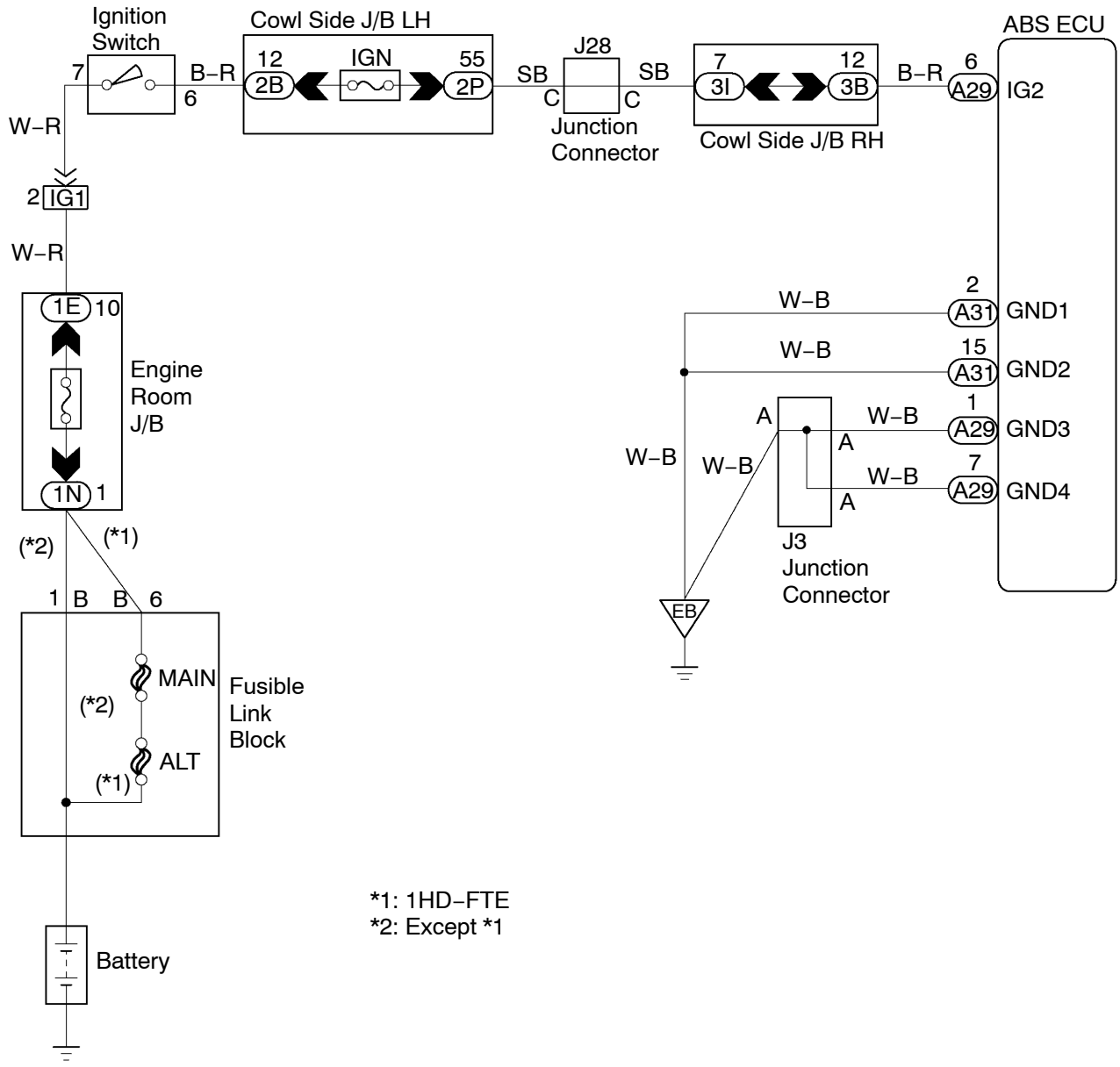
RHD:


Ignition Switch
7
6
B–R
Cowl Side J/B LH
12
2B
IGN
55
2P
SB
C
J28
Junction Connector
C
SB
7
3I
12
3B
Cowl Side J/B RH
B–R
6
A29
ABS ECU
IG2
W–R
2
IG1
W–R
1E
10
Engine Room J/B
1N
1
(*2)
(*1)
1
B
B
6
MAIN
(*2)
ALT
(*1)
Fusible Link Block
Battery
W–B
2
A31
GND1
W–B
15
A31
GND2
A
W–B
1
A29
GND3
A
W–B
W–B
W–B
7
A29
GND4
A
J3 Junction Connector
EB
*1: 1HD–FTE
*2: Except *1
F05591

INSPECTION PROCEDURE

1	**Check battery voltage.**

OK:

Voltage: 10 – 14 V

NG → **Check and repair the charging system.**

OK

2	**Check voltage of the ECU IG2 power souce.**

IN CASE OF USING HAND–HELD TESTER:

PREPARATION:

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

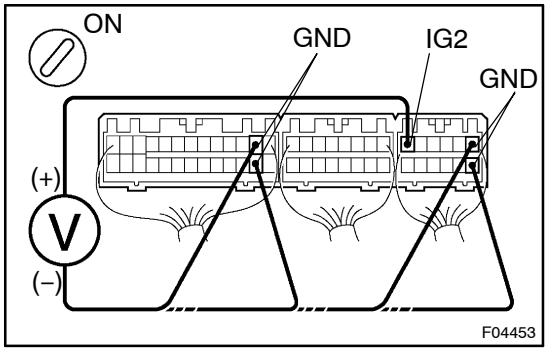
CHECK:

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

OK:

"Normal" is displayed.

IN CASE OF NOT USING HAND–HELD TESTER:



PREPARATION:

Remove 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.

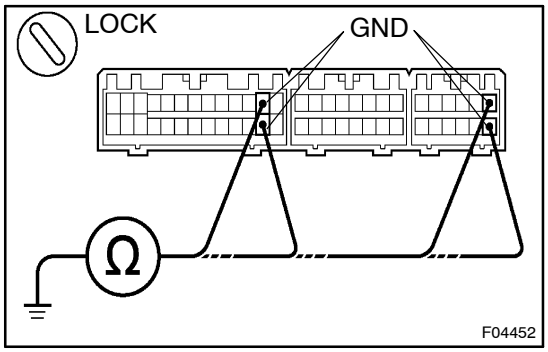
OK:

Voltage: 10 – 14 V

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

NG

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



CHECK:

Measure resistance between terminal GND of ABS ECU connector and body ground.

OK:

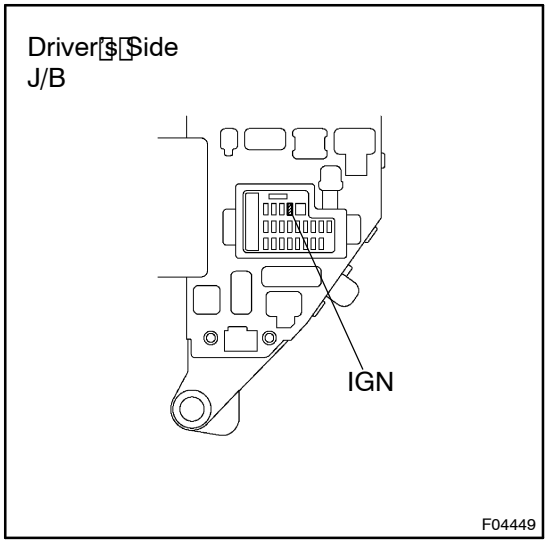
Resistance: 1 Ω or less

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

OK

4	**Check IGN fuse.**

PREPARATION:



Remove IGN fuse from driver's 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

Check for open circuit in harness and connector between ABS ECU and battery. (See page IN–24)