

DTC	C1241 / 41	IG Power Source Circuit
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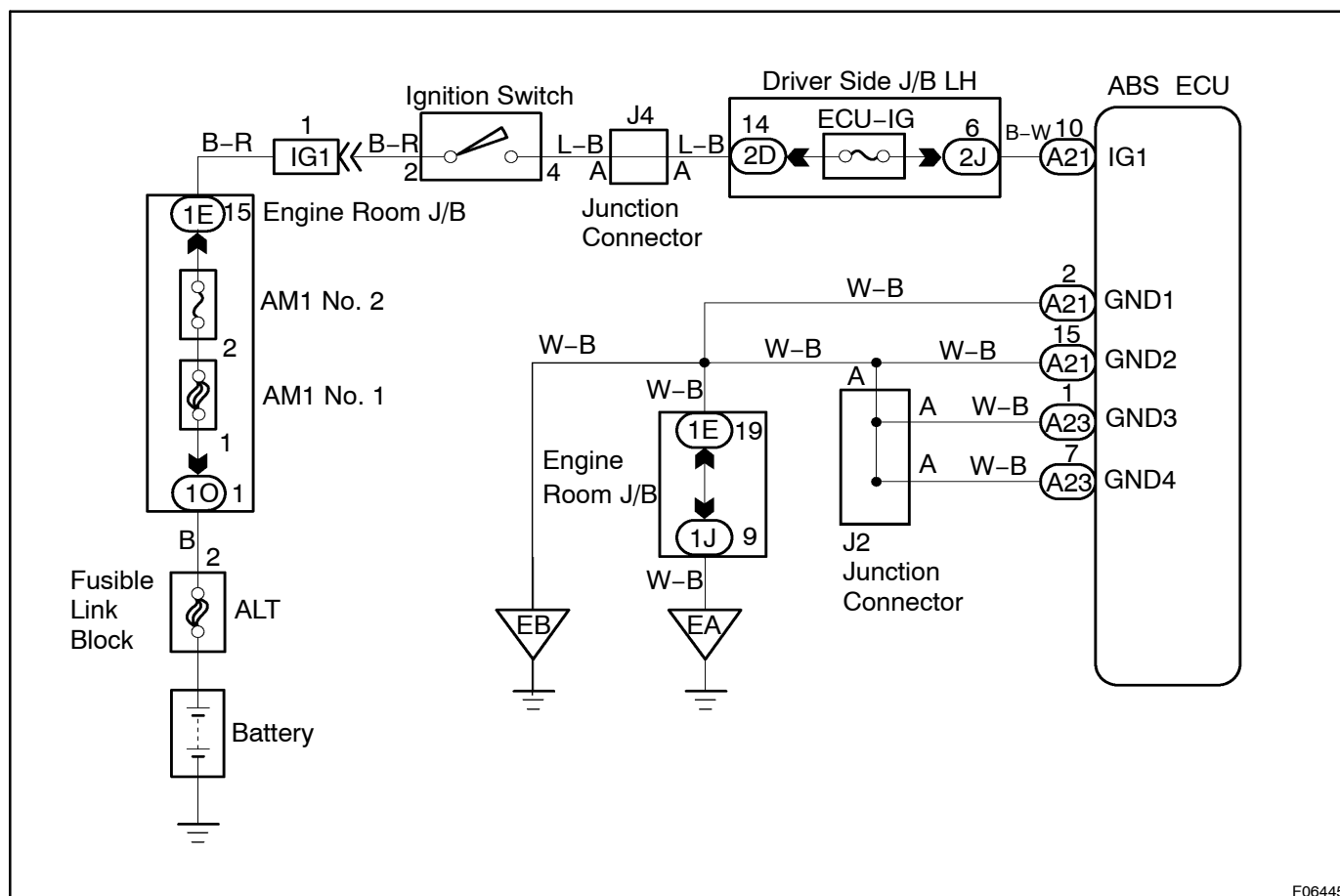
CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
C1241 / 41	Detection of any of conditions 1. through 4.: 1. Vehicle speed is 3 km/h (1.9 mph) or more and voltage of ECU terminal IG remains at below 9.5 V for more than 10 sec. 2. While the condition that the solenoid relay is ON continues, ECU terminal IG1 voltage becomes 9.5 V or less, and the condition that the contact point of the solenoid relay is OFF continues for 0.2 sec. or more. 3. The condition that ECU terminal IG1 voltage is more than 18.5 V continues. 4. While the solenoid relay outputs ON signal, ECU terminal IG1 voltage becomes 9.5 – 18.5 V, and the condition that the contact point of the solenoid relay is OFF continues for 0.2 sec. or more.	• Battery • Charging system • Power source circuit

Fail safe function:

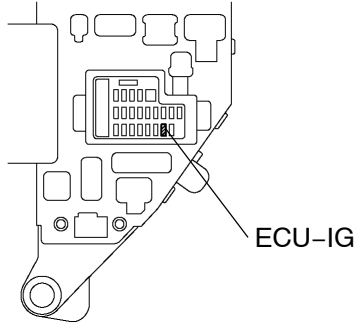
If trouble occurs in the power source circuit, the ECU cuts off current to the ABS solenoid relay and prohibits ABS control and the brake system becomes normal.

WIRING DIAGRAM



INSPECTION PROCEDURE**1 Check ECU-IG fuse.**

Driver's Side J/B



F04448

PREPARATION:

Remove ECU-IG fuse from driver's side J/B.

CHECK:

Check continuity of ECU-IG fuse.

OK:**Continuity****NG****Check for short circuit in all the harness and components connected to ECU-IG 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-IG power source.
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In case of using TOYOTA hand-held tester:

PREPARATION:

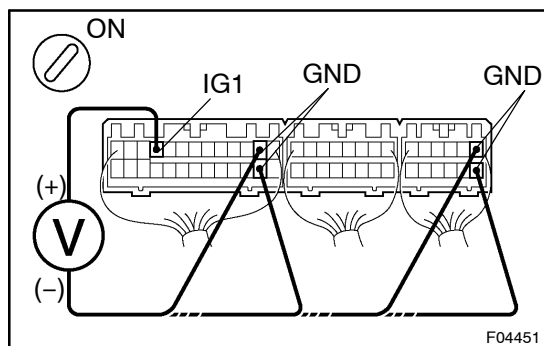
- (a) Connect the TOYOTA hand-held tester to the DLC3.
- (b) Turn the ignition switch ON and push the TOYOTA hand-held tester main switch ON.
- (c) Select the DATALIST mode on the TOYOTA hand-held tester.

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 ABS ECU with connectors still connected.

CHECK:

- (a) Turn the ignition switch ON.
- (b) Measure voltage between terminals IG1 and GND of ABS ECU connector.

OK:

Voltage: 10 – 14 V

OK

Ignition switch OFF, check and replace ABS ECU.

NG

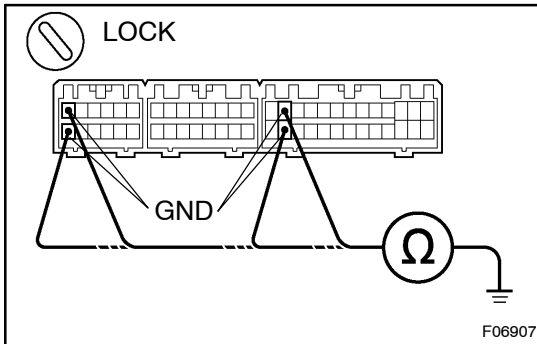
4	Check for open circuit in harness and connector between ABS ECU and battery (See page IN-34).
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NG

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-223](#)).