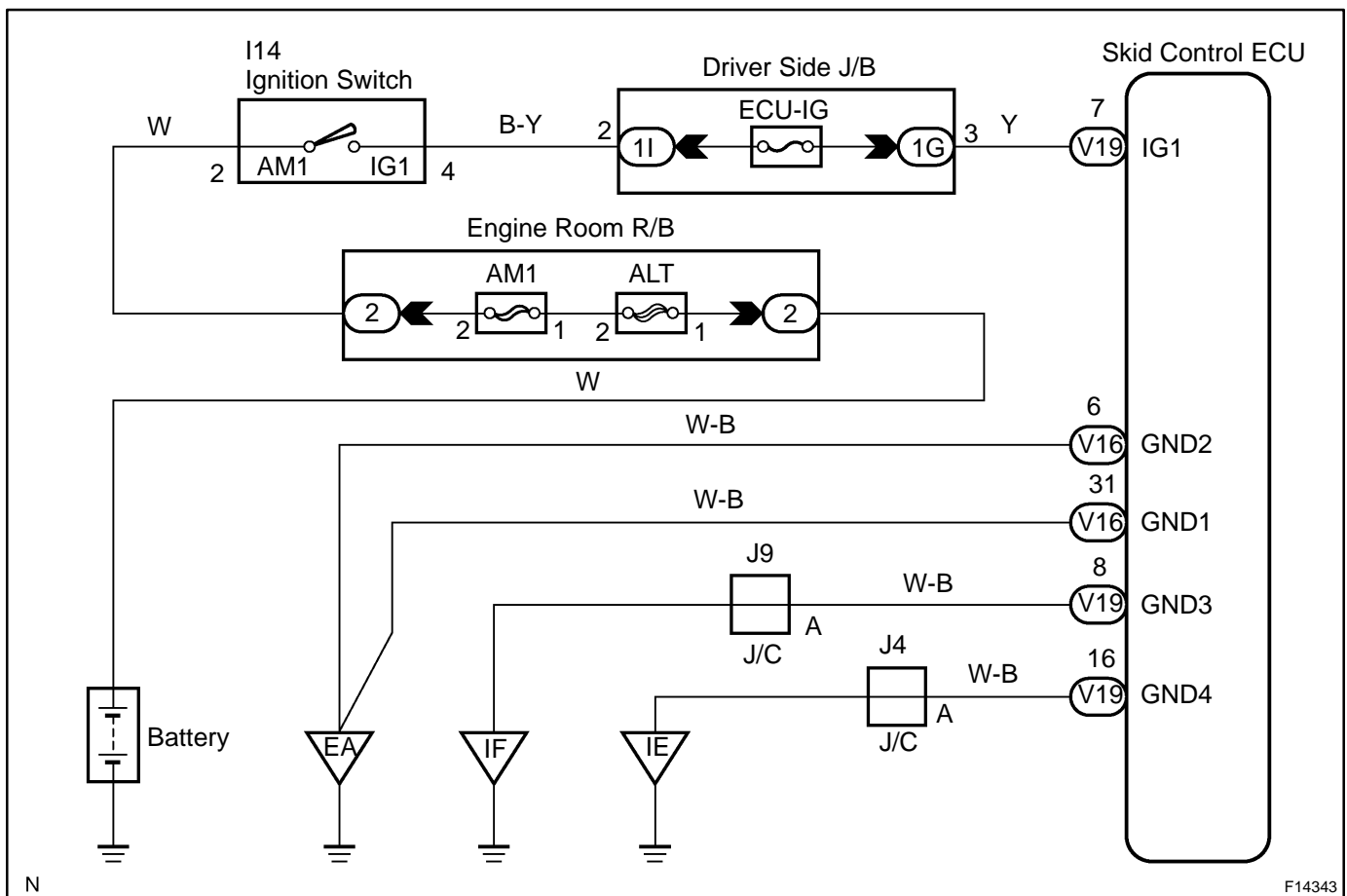


DTC	C1241 / 41	IG Power Source Circuit
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## CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
C1241 / 41	<p>Detection of any of conditions 1. through 4.:</p> <ol style="list-style-type: none"> <li>1. Vehicle speed is 3 km/h (1.9 mph) or more and voltage of ECU terminal IG remains below 9.5 V for more than 10 sec.</li> <li>2. While the condition that the ABS SOL relay is ON continues, ECU terminal IG1 voltage becomes 9.5 V or less, and the condition that the contact point of the ABS SOL relay is OFF continues for 0.2 sec. or more.</li> <li>3. The condition that ECU terminal IG1 voltage is more than 17.0 V continues for 1.2 sec. or more.</li> <li>4. While the ABS SOL relay outputs ON signal, ECU terminal IG1 voltage becomes more than 17.0 V, and the condition that the contact point of the ABS SOL relay is OFF continues for 0.2 sec. or more.</li> </ol>	<ul style="list-style-type: none"> <li>• Battery</li> <li>• Charging system</li> <li>• Power source circuit</li> </ul>

## WIRING DIAGRAM



## INSPECTION PROCEDURE

1	Check battery positive voltage.
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**OK:**

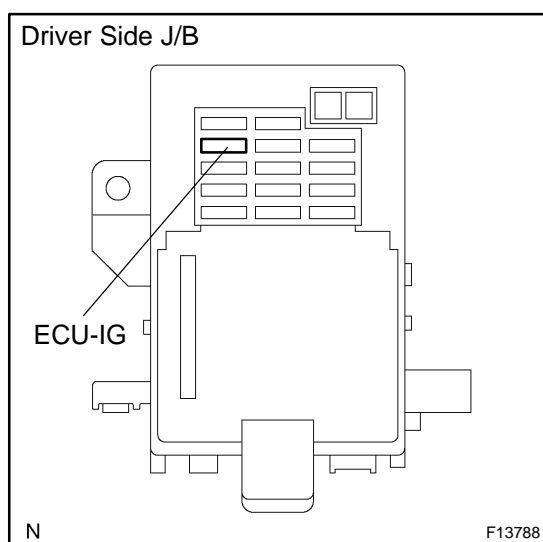
Voltage: 10 - 14 V

**NG**

Check and repair the charging system.

**OK**

2	Check ECU-IG fuse.
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**PREPARATION:**

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

**CHECK:**

Check continuity of the ECU-IG fuse.

**OK:**

Continuity

**NG**

Check for short circuit in all the harnesses and components connected to ECU-IG fuse (See attached wiring diagram).

**OK**

3	Check voltage of ECU IG power source.
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**In case of using the hand-held tester:**

**PREPARATION:**

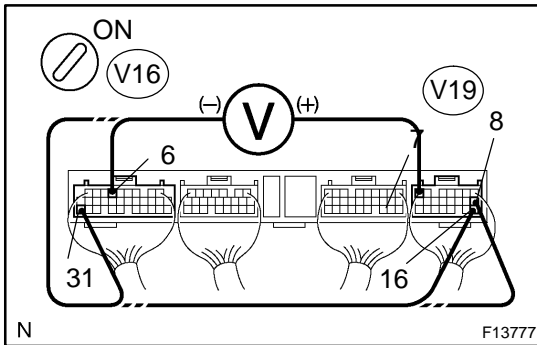
- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch ON and push the hand-held tester main switch ON.
- (c) Select the DATALIST mode on the hand-held tester.

**CHECK:**

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

**OK:**

"Normal" is displayed.



**In case of not using the TOYOTA hand-held tester:**

**PREPARATION:**

Remove the skid control ECU with the connectors still connected.

**CHECK:**

- (a) Turn the ignition switch ON.
- (b) Measure voltage between terminals IG1 (V19 - 7) and GND (V16 - 6, 31, V19 - 8, 16) of the skid control ECU.

**OK:**

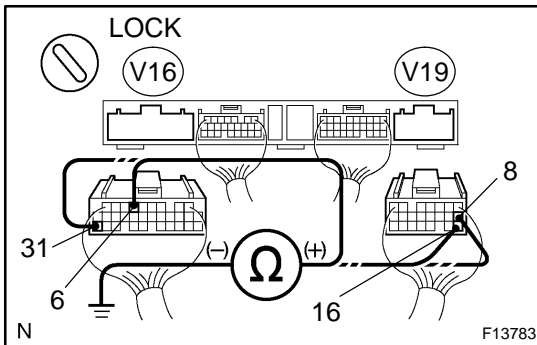
**Voltage: 10 - 14 V**

**OK**

**Check and replace skid control ECU.**

**NG**

- 4 Check continuity between terminal GND of skid control ECU connector and body ground.**



**PREPARATION:**

Disconnect the connectors (V16, V19) from the skid control ECU.

**CHECK:**

Measure resistance between terminal GND (V16 - 6, 31, V19 - 8, 16) of the skid control ECU harness side connector and body ground.

**OK:**

**Resistance: 1 Ω or less**

**NG**

**Repair or replace harness or connector.**

**OK**

**Check for open circuit in harness and connector between skid control ECU and battery (See page [IN-28](#)).**