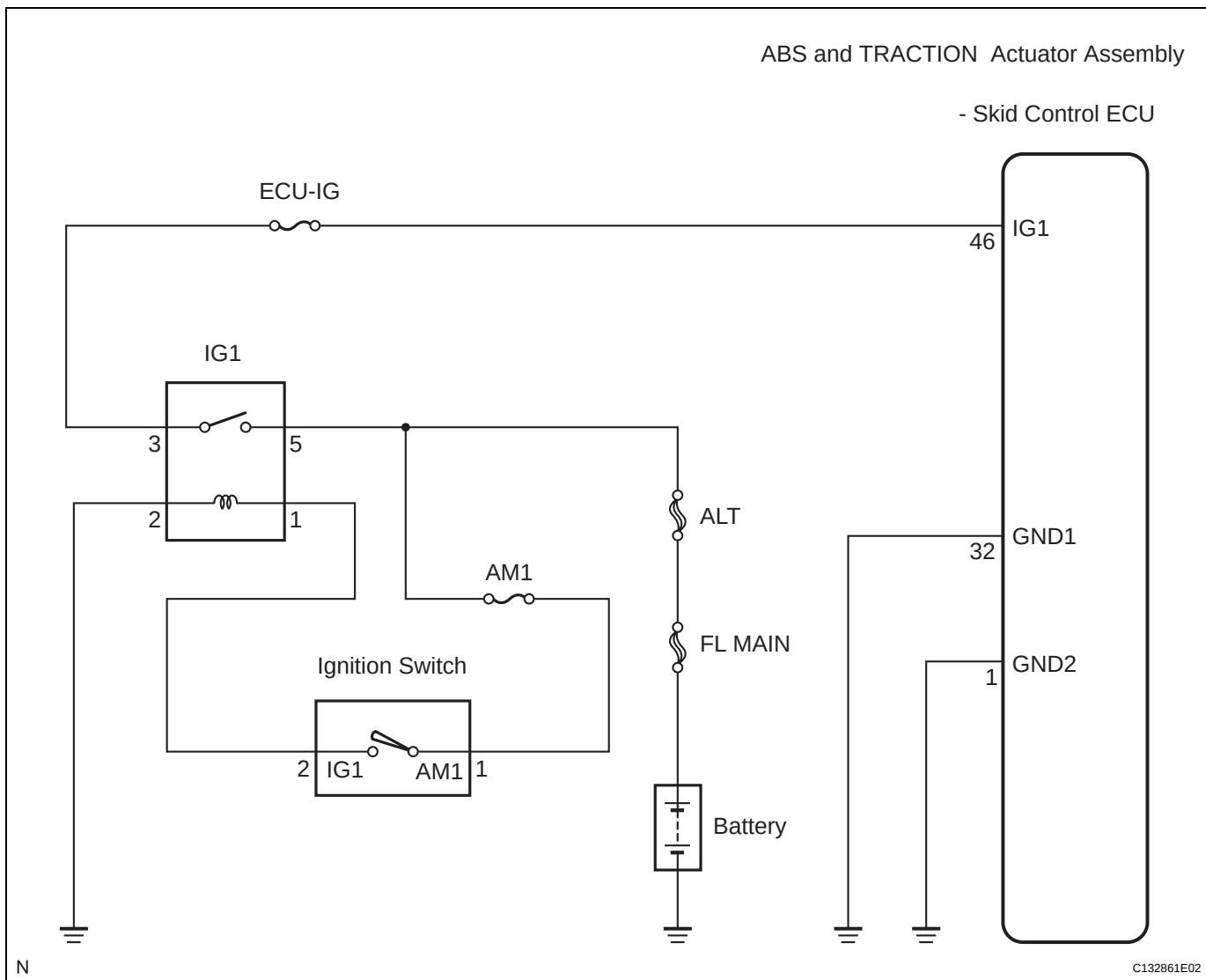


**DTC****C1241/41****Low Battery Positive Voltage****DESCRIPTION**

If there is a problem with the ABS and TRACTION actuator assembly (skid control ECU) power supply circuit, the skid control ECU outputs the DTC and prohibits operation under the fail safe function.

If the voltage supplied to the IG1 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 Detecting Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Trouble Area                                                                                                           |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| C1241/41 | <p>When either of the following (1 and 2) is detected:</p> <p>(a) All the following conditions continue for at least 10 seconds.</p> <ul style="list-style-type: none"> <li>* Vehicle speed is more than 2 mph (3 km/h).</li> <li>* IG1 terminal voltage is less than 9.5 V.</li> </ul> <p>(b) All the following conditions continue for at least 0.2 seconds.</p> <ul style="list-style-type: none"> <li>* Solenoid relay remains ON.</li> <li>* IG1 terminal voltage is less than 9.5 V.</li> <li>* Relay contact is open.</li> </ul> | <ul style="list-style-type: none"> <li>• Battery</li> <li>• Charging system</li> <li>• Power source circuit</li> </ul> |

**WIRING DIAGRAM**

**INSPECTION PROCEDURE****NOTICE:**

When replacing the ABS and TRACTION actuator assembly, perform zero point calibration (See page [BC-80](#)).

**1 INSPECT BATTERY**

- (a) Check the battery voltage.

**Standard voltage:**

**11 to 14 V**

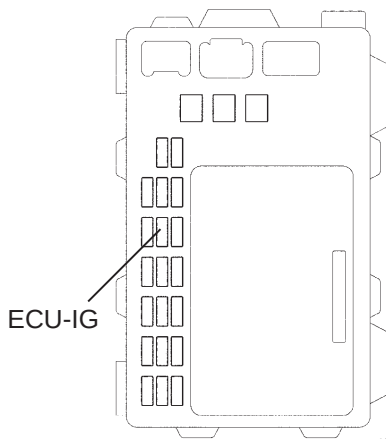
**NG**

**INSPECT CHARGING SYSTEM**

**OK**

**2 INSPECT ECU-IG FUSE**

Instrument Panel J/B



- (a) Remove the ECU-IG fuse from the instrument panel J/B.

- (b) Check continuity of the ECU-IG fuse.

**Standard resistance**

| Tester Connection | Specified Condition |
|-------------------|---------------------|
| ECU-IG Fuse       | Below 1 $\Omega$    |

**NG**

**REPLACE ECU-IG FUSE**

**OK**

**3 INSPECT SKID CONTROL ECU (IG1 TERMINAL)**

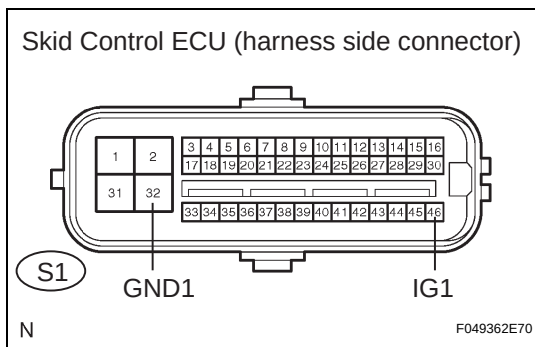
- (a) WHEN USING INTELLIGENT TESTER:

- (1) Connect the intelligent tester to the DLC3.
- (2) Start the engine.
- (3) Select DATA LIST mode on the intelligent tester.
- (4) Measure the voltage condition output from the ECU displayed on the intelligent tester.

| Item       | Measurement Item / Range (Display)                     | Normal Condition                                                            |
|------------|--------------------------------------------------------|-----------------------------------------------------------------------------|
| IG VOLTAGE | ECU power supply voltage / TOO LOW / NORMAL / TOO HIGH | TOO LOW: 9.5 V or less<br>NORMAL: 9.5 to 14.0 V<br>TOO HIGH: 14.0 V or more |

**OK:**

**"Normal" is displayed.**



- (b) WHEN NOT USING INTELLIGENT TESTER:
- (1) Disconnect the skid control ECU connector.
  - (2) Turn the ignition switch to the ON position.
  - (3) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

| Tester Connection          | Condition    | Specified Condition |
|----------------------------|--------------|---------------------|
| S1-46 (IG1) - S1-32 (GND1) | IG switch ON | 10 to 14 V          |

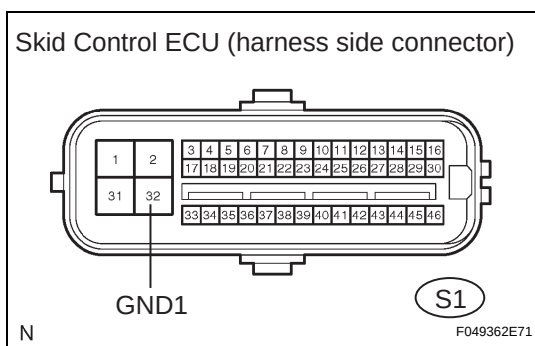
NG

Go to step 4

OK

**REPLACE ABS AND TRACTION ACTUATOR ASSEMBLY**

**4 INSPECT SKID CONTROL ECU (GND TERMINAL)**



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

**Resistance**

| Tester Connection          | Specified Condition |
|----------------------------|---------------------|
| S1-32 (GND1) - Body ground | Below 1 $\Omega$    |

NG

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

OK

**REPAIR OR REPLACE HARNESS OR CONNECTOR (IG1 CIRCUIT)**