

Diag. Code 41 IG Power Source Circuit

— CIRCUIT DESCRIPTION —

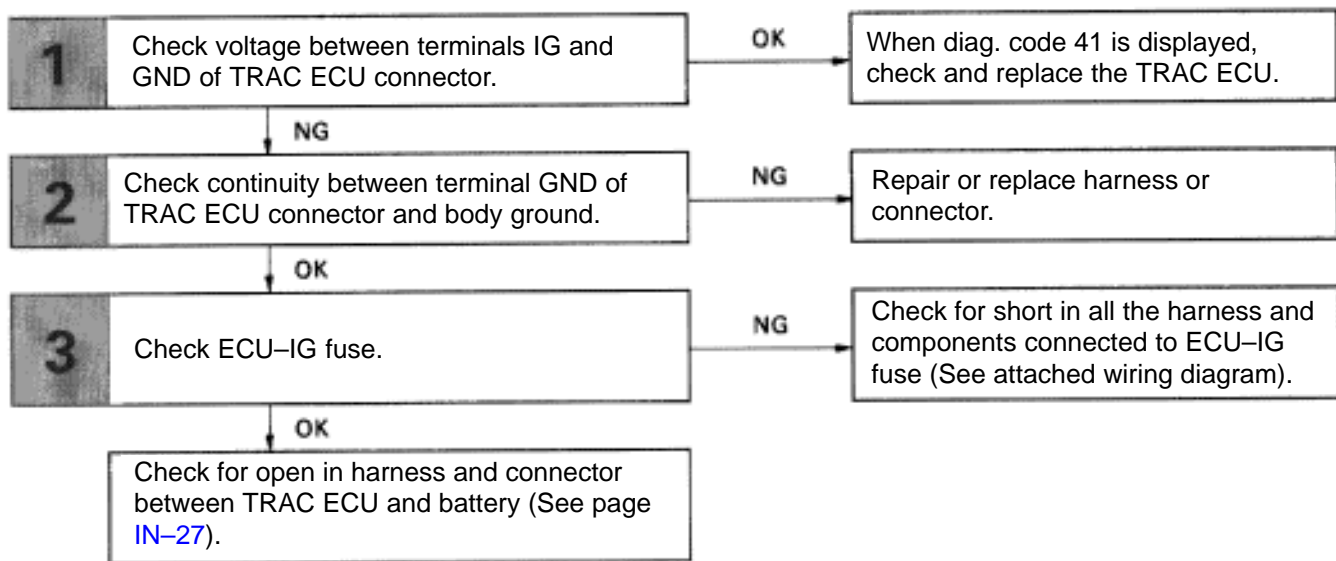
This is the power source for the ECU and becomes power source for the CPU and actuators.

Code No.	Diagnostic Code Detecting Condition	Trouble Area
41	When either of the following (1) or (2) is detected: (1) Voltage at ECU terminal IG is less than 9.5 V for more than 10 sec. while engine speed is 500 rpm or higher. (2) Voltage at ECU terminal IG is more than 17 V for more than 5 sec.	<ul style="list-style-type: none"> •Battery •IC regulator •Open or short in power source circuit •ECU

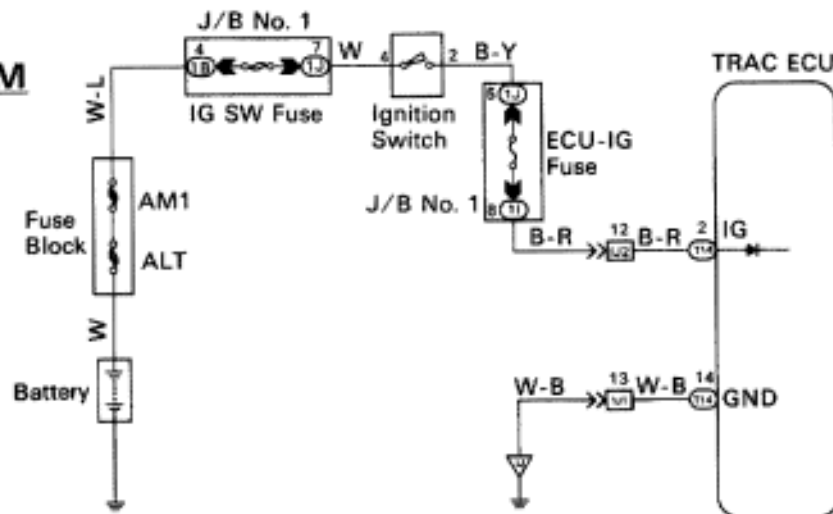
Fail safe function: If trouble occurs in the power source circuit, the ECU cuts off current to the TRAC solenoid relay and prohibits TRAC control.

— DIAGNOSTIC CHART —

First check battery voltage. If the voltage is not between 10 V and 14 V, check and repair the charging system.



WIRING DIAGRAM

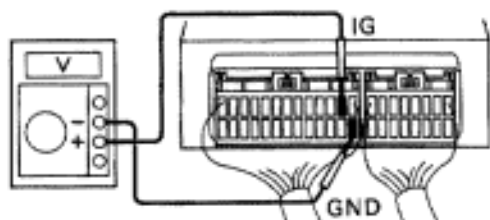


INSPECTION PROCEDURE

1

Check voltage between terminals IG and GND of TRAC ECU connector

ON
IG ON



SE6653
BR5453

- P** 1. Remove TRAC ECU with connectors still connected.
2. Turn ignition switch on.
- C** Measure voltage between terminals IG and GND of TRAC ECU connector.
- OK** Voltage: 10 – 14V

NG

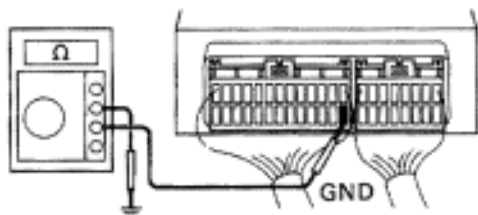
OK

When diag code 41 is displayed,
check and replace TRAC ECU.

2

Check continuity between terminal GND of TRAC ECU connector and body ground.

OFF
IG OFF



SE6653
BR5454

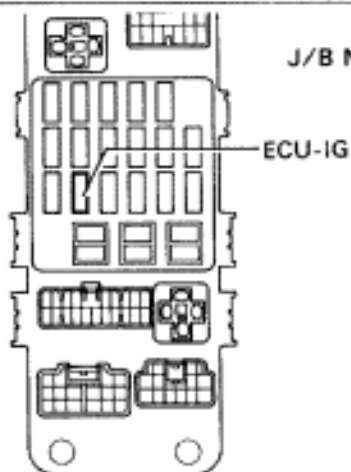
- C** Measure resistance between terminal GND of TRAC ECU connector and body ground.
- OK** Resistance: 1Ω or less

OK

NG

Repair or replace harness or connector.

Go to step [3].

3**Check ECU-IG fuse.**

- P** Remove ECU-IG fuse from J/B No.1
- C** Check continuity of ECU-IG fuse.
- OK** **Continuity**

OK**NG**

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

Check for open in harness and connector between TRAC ECU and battery (See page [IN-27](#)).