DI292-10

DTC	41	IG Power Source Circuit

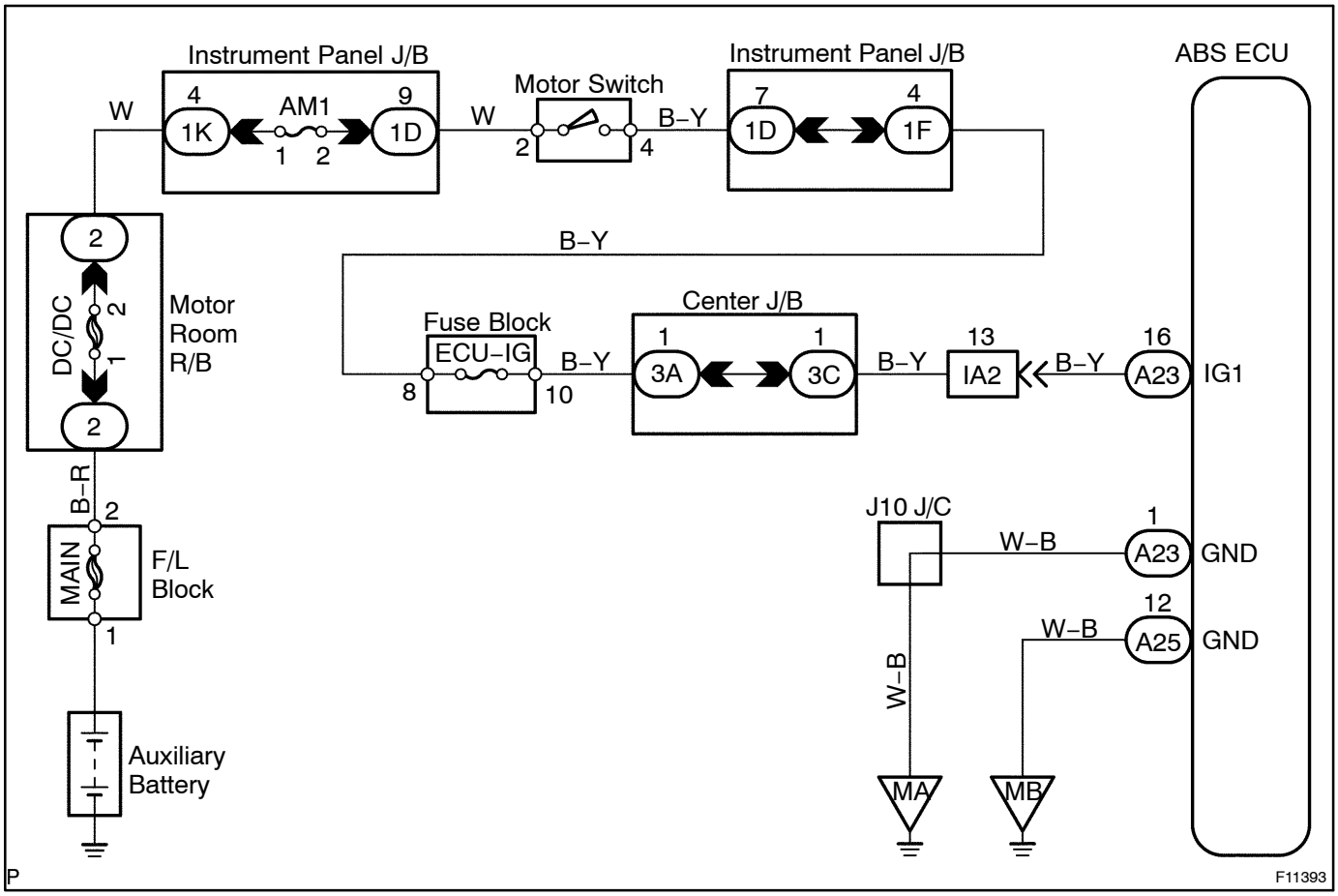
CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
41	Detection of any of conditions (a) through (d): (a) 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. (b) While solenoid relay is ON, ECU terminal IG1 voltage becomes 9.5 V or less, and condition that contact point of solenoid relay is OFF continues for 0.2 sec. or more (c) Condition that ECU terminal IG1 voltage is more than 17.0 V continues for 1.2 sec. or more (d) While solenoid relay outputs ON signal, ECU terminal IG1 voltage becomes more than 17.0 V, and condition that contact point of solenoid relay is OFF continues for 0.2 sec. or more	• Battery • Charging system • IG1 circuit • ABS ECU

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 battery positive voltage.**

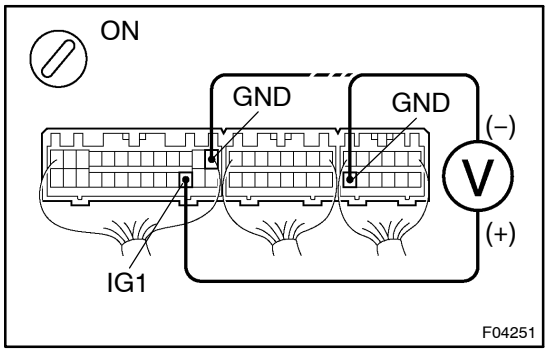
OK:

Voltage: 10 – 14 V

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

OK

2	**Check voltage between terminals IG1 and GND of ABS ECU connector.**



PREPARATION:

Remove ABS ECU with connectors still connected.

CHECK:

(a) Turn the motor switch ON.

(b) Measure voltage between terminals IG1 and GND of ABS ECU connector.

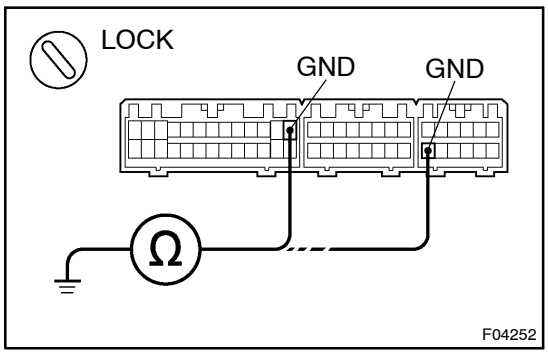
OK:

Voltage: 10 – 14 V

OK → **Turn motor 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.

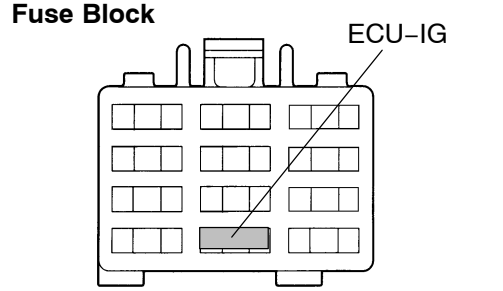
OK:

Resistance: 1 Ω or less

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

OK

4	Check ECU–IG fuse.



PREPARATION:

Remove ECU–IG.

CHECK:

Check continuity of ECU–IG fuse.

OK:

Continuity

NG → **Check for short circuit in all harness and components connected to ECU–IG fuse (See attached wiring diagram).**

OK →

Check for open circuit in harness and connector between ABS ECU and auxiliary battery (See page IN–28).