DI0WV–09

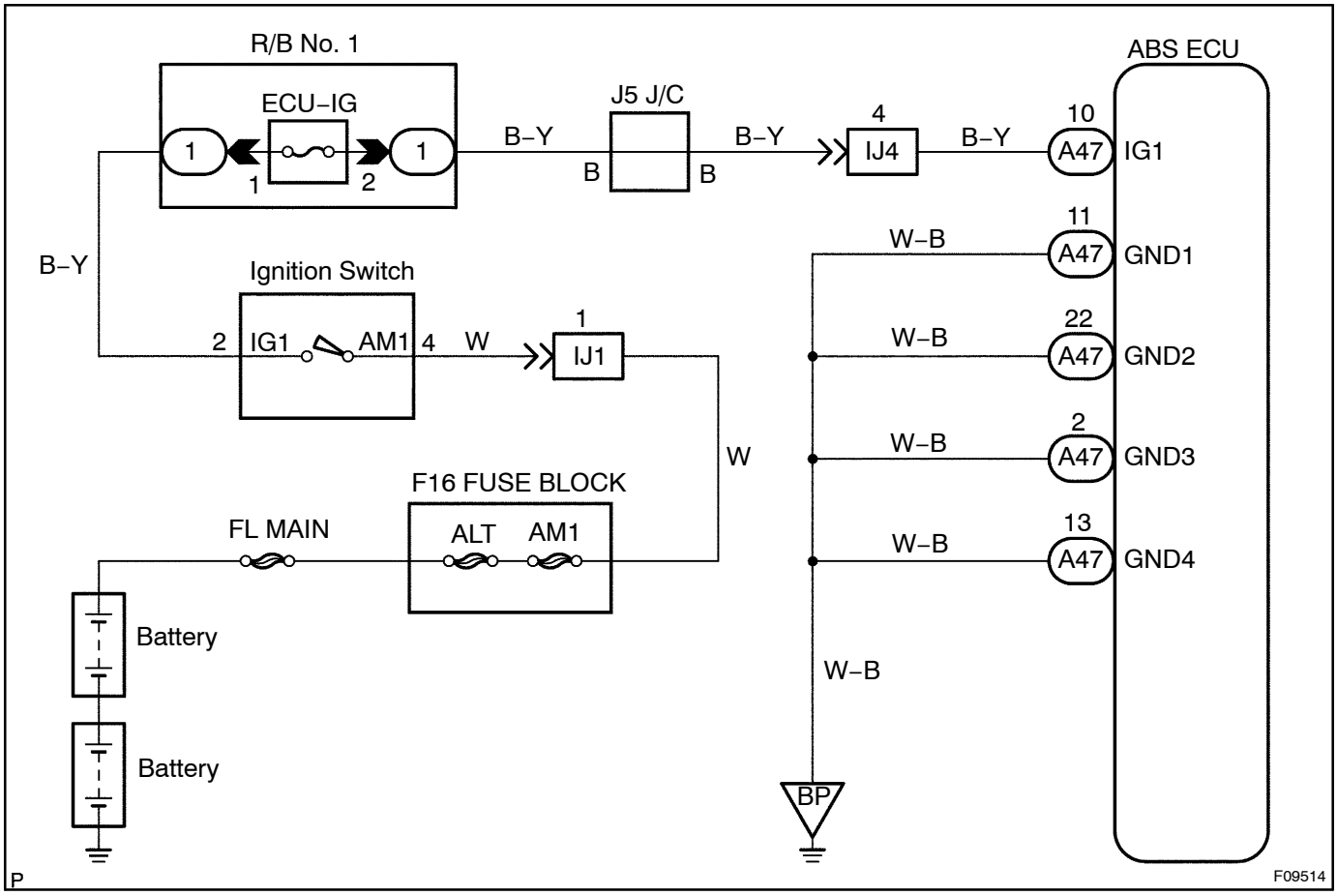
| DTC | C1241 / 41 | IG Power Source Circuit |
|---|---|---|

## CIRCUIT DESCRIPTION

| DTC No. | DTC Detecting Condition | Trouble Area |
|---|---|---|
| C1241 / 41 | Either of the following 1. or 2. is detected:<br>1. Vehicle speed is 3 km/h (1.9 mph) or more and voltage of ECU terminal IG remains at below 19 V for more than 10 sec. or more.<br>2. While the condition that the solenoid relay is ON continues, ECU terminal IG1 voltage becomes 19 V or less, and the condition that the contact point of the solenoid relay is OFF continues for 0.2 sec. or more. | • Battery<br>• Charging system<br>• Power source circuit |

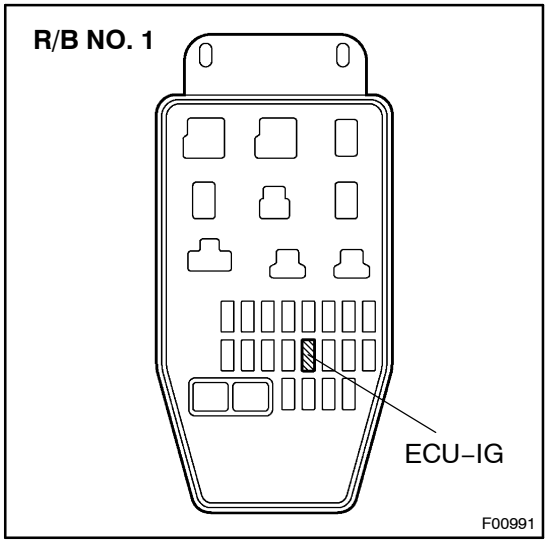
Fail safe function:
If any trouble occurs in the power source circuit, the ECU cuts off current to the ABS solenoid relay and prohibits ABS controls and BRAKE PRESSURE INCREASE FUNCTION.
HINT:
When the brake pedal is depressed firmly, the brake force may be lowered.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| | |
|---|---|
| 1 | **Check ECU–IG fuse.** |




**PREPARATION:**
Remove ECU–IG fuse from R/B No. 1.
**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 voltage.** |

**OK:**
**Voltage: 20 – 28 V**

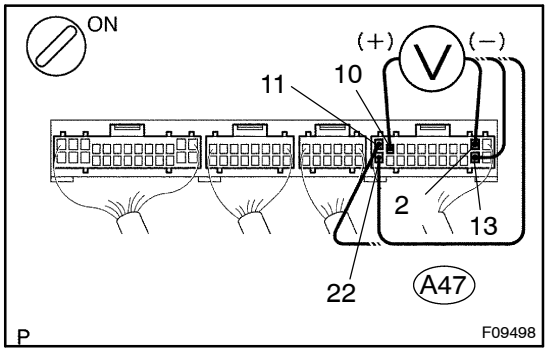
**NG** → **Check and repair the charging system.**

**OK**

| | |
|---|---|
| 3 | **Check voltage of the ECU IG power souce.** |

**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 by the hand–held tester.
**OK:**
**”Normal” is displayed.**

**In case of not using the hand–held tester:**




**PREPARATION:**

Remove the ABS ECU with connectors still connected.

**CHECK:**

(a) Turn the ignition switch ON.

(b) Measure voltage between terminals IG1 (A47 – 10) and GND (A47 – 2, 11, 13, 22) of ABS ECU.

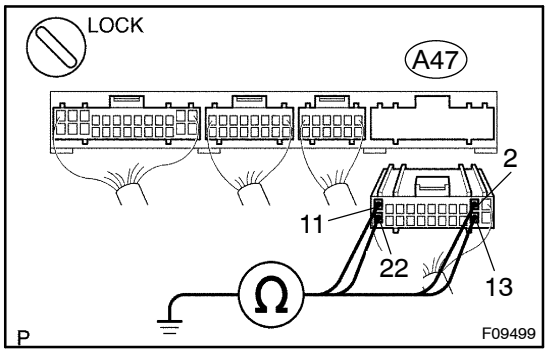
**OK:**

**Voltage: 20 – 28 V**

| | |
|---|---|
| **OK** | **Ignition switch OFF, check and replace ABS ECU.** |

**NG**

| | |
|---|---|
| **4** | **Check continuity between terminal GND of ABS ECU connector and body ground.** |




**CHECK:**

(a) Disconnect the connector from the ABS ECU.

(b) Measure resistance between terminal GND (A47 – 2, 11, 13, 22) of ABS ECU 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 ABS ECU and battery (See page IN–21).**