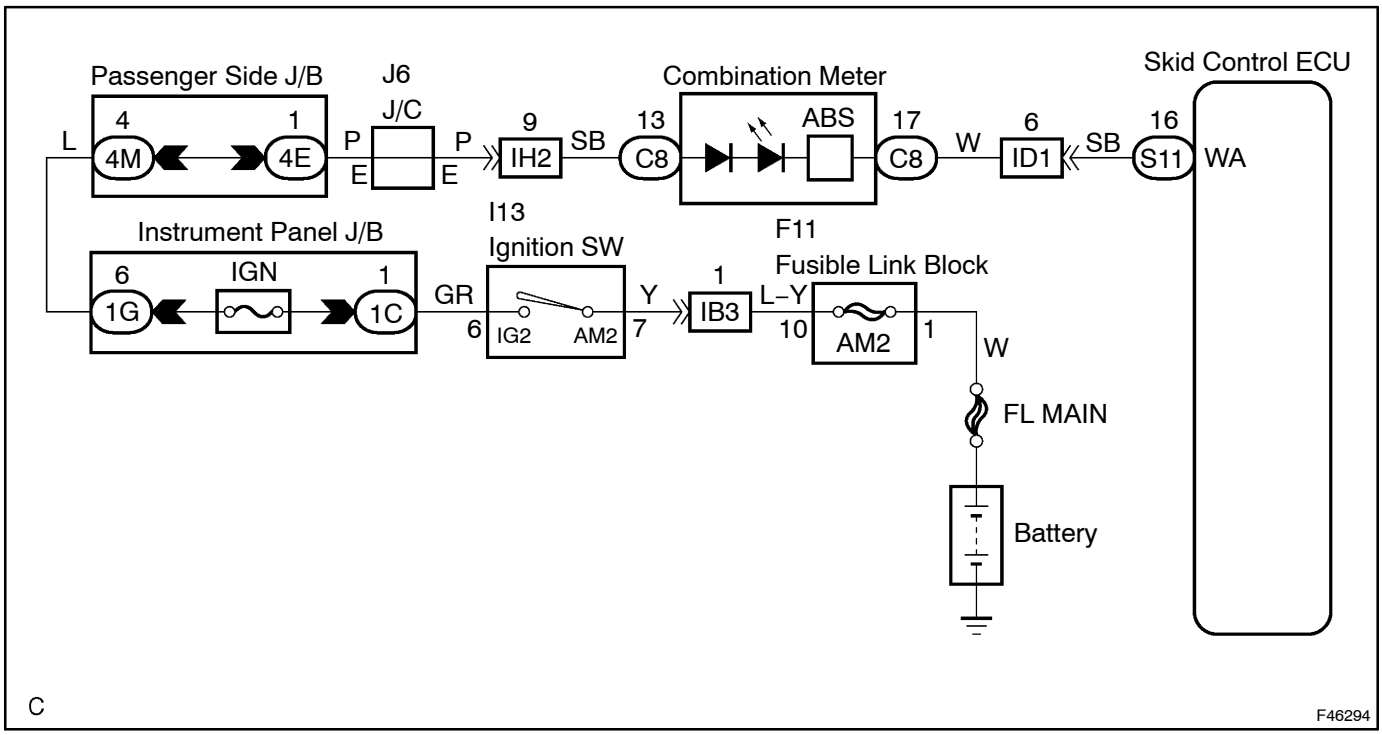
ABS WARNING LIGHT CIRCUIT (REMAINS ON)

CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
Always ON	Either of the following 1. or 2. is detected: 1. The ECU connectors are OFF from the ECU. 2. There is a malfunction in the ECU internal circuit.	• Battery • Charging system • Power source circuit • Skid Control ECU

HINT:
There is a case that hand–held tester cannot be used when ECU is abnormal.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK IF SKID CONTROL ECU CONNECTOR IS SECURELY CONNECTED

NG → CONNECT CONNECTORS

OK

2	CHECK RECONFIRM DTC

A	Normal Code
B	Malfunction Code

B → REPAIR CIRCUIT INDICATED BY OUTPUT DTC

A

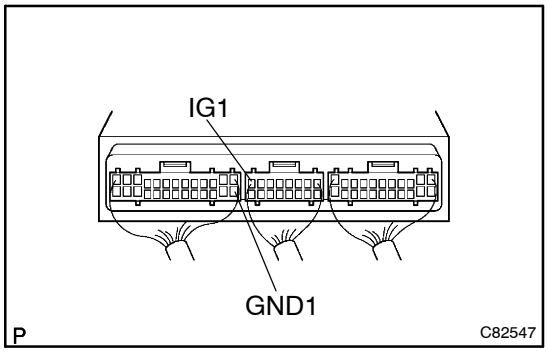
3 CHECK VOLTAGE OF ECU IG POWER SOURCE

WHEN USING HAND–HELD TESTER:

(a) Connect the hand–held tester to the DLC3.
(b) Start the engine.
(c) Select the DATA LIST mode on the hand–held tester.

Item	Measurement Item / Range (Display)	Normal Condition
IG VOLTAGE	ECU power supply voltage / NORMAL or TOO LOW	NORMAL: 9.5 V or over TOO LOW: Below 9.5 V

(d) Read the voltage condition output from the ECU displayed on the hand–held tester.
OK:
"Normal" is displayed.



WHEN NOT USING HAND–HELD TESTER:

(a) Remove the skid control ECU with connectors still connected.
(b) Turn the ignition switch ON, measure voltage between terminals IG1 and GND of skid control ECU connector.
Standard:

Tester Connection	Specified Condition
S11–8 (IG1) – S9–15 (GND1)	10 to 14 V

OK → **Go to step 8**

NG

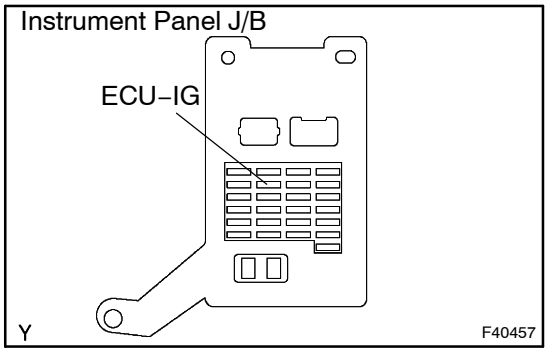
4 INSPECT BATTERY

(a) Check the battery voltage.
Standard:
Voltage: 10 – 14 V

NG → **CHECK AND REPLACE CHARGING SYSTEM**

OK

5 CHECK ECU–IG FUSE



(a) Remove ECU–IG fuse from the instrument panel J/B.
(b) Check continuity of ECU–IG fuse.
Standard:

ECU–IG Fuse	Below 1 Ω (Continuity)

NG → **CHECK FOR SHORT IN ALL HARNESS AND CONNECTOR CONNECTED TO FUSE AND REPLACE FUSE**

OK

6	CHECK HARNESS AND CONNECTOR(INSTRUMENT PANEL J/B – SKID CONTROL ECU) (SEE PAGE 01–33)

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

7	CHECK HARNESS AND CONNECTOR(SKID CONTROL ECU – BODY GROUND) (SEE PAGE 01–33)

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

CHECK AND REPLACE INSTRUMENT PANEL J/B

8	CHECK HARNESS AND CONNECTOR(SKID CONTROL ECU – COMBINATIONMETER) (See page 01–33)

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

9	CHECK COMBINATION METER ASSY

WHEN USING HAND–HELD TESTER:

(a) Connect the hand–held tester to the DLC3 and start the engine.

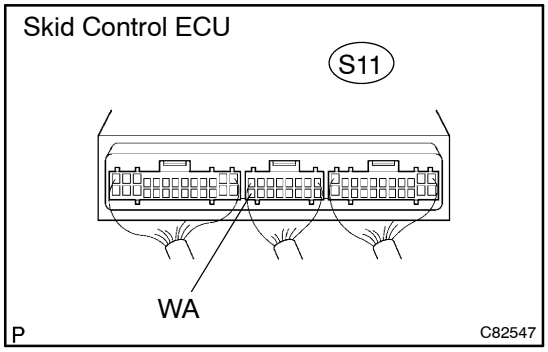
(b) Select the item ”ABS WARN LIGHT” in the ACTIVE TEST and operate the ABS warning light on the hand–held tester.

Item	Vehicle Condition / Test Details	Diagnostic Note
ABS WARN LIGHT	Turns ABS warning light ON / OFF	Observe combination meter

(c) Check that ”ON” and ”OFF” of the ABS warning light are shown on the combination meter with the hand–held tester.

Standard:

The ABS warning light is turned ON or OFF in accordance with the hand–held tester.



WHEN NOT USING HAND–HELD TESTER:

(a) Turn the ignition switch off and disconnect the connector from the skid control ECU.

(b) Ground terminal WA of the skid control ECU.

(c) Turn the ignition switch to the ON position.

(d) Check that the ABS warning light.

Standard:

Turn the light ON or OFF in accordance with the connecting condition of terminal WA and body ground.

OK → **REPLACE SKID CONTROL ECU ASSY**

NG

CHECK AND REPLACE COMBINATION METER ASSY