

ABS Warning Light Remains ON

DESCRIPTION

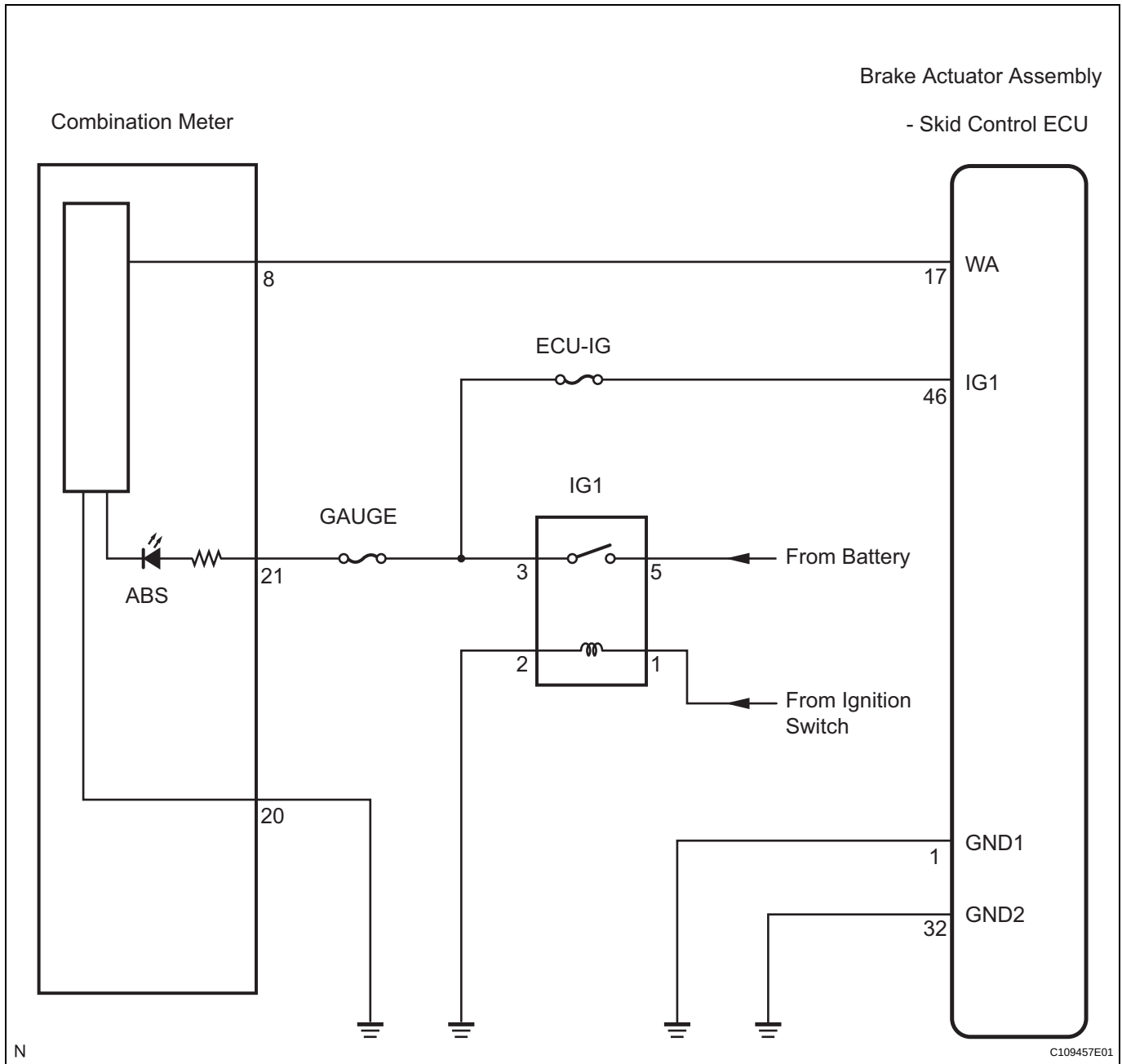
If any of the following is detected, the ABS warning light remains on:

- (a) The skid control ECU connectors are disconnected from the skid control ECU.
- (b) There is a malfunction in the skid control ECU internal circuit.
- (c) There is an open in the wire harness between the combination meter and skid control ECU.

HINT:

The intelligent tester may not be usable when there is a malfunction in the skid control ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK DTC

(a) Is a DTC output for ABS?

Result

Condition	Proceed to
DTC is not output	A
DTC is output	B

B

REPAIR CIRCUIT INDICATED BY OUTPUT DTC

A

2 INSPECT SKID CONTROL ECU CONNECTOR SECURELY CONNECTED

(a) Check the ECU connector's connecting condition.

OK:

The connector should be securely connected.

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CONNECT CONNECTOR TO ECU CORRECTLY

OK

3 INSPECT BATTERY

(a) Check the battery voltage.

Standard voltage:

11 to 14 V

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INSPECT CHARGING SYSTEM

OK

4 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.

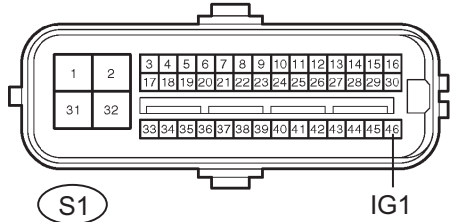
Item	Measurement Item / Range (Display)	Diagnostic Note
IG VOLTAGE	ECU power supply voltage / TOO LOW / NORMAL / TOO HIGH	TOO LOW: Below 9.8 V NORMAL: 9.8 to 14.0 V TOO HIGH: 14.0 V or over

(4) Read the voltage condition output from the ECU displayed on the intelligent tester.

OK:

"Normal" is displayed.

Skid Control ECU (harness side connector)



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- (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) - Body ground	IG switch ON	10 to 14 V

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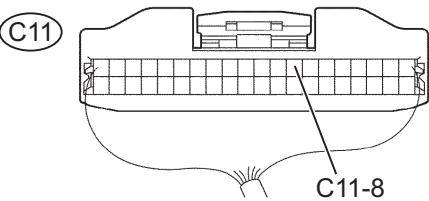
REPAIR OR REPLACE HARNESS OR CONNECTOR (IG1 CIRCUIT)

OK

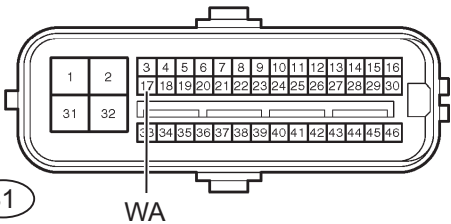
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CHECK HARNESS AND CONNECTOR (SKID CONTROL ECU - COMBINATION METER)

Combination Meter Connector



Skid Control ECU (harness side connector)



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

Standard resistance

Tester Connection	Specified Condition
C11-8 - S1-17 (WA)	Below 1 Ω

- (c) Measure the resistance according to the value(s) in the table below.

Standard resistance

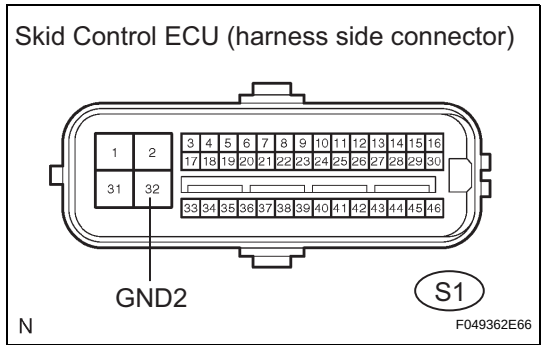
Tester Connection	Specified Condition
S1-17 (WA) - Body ground	10 k Ω or higher

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REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

6INSPECT 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.

Standard resistance

Tester Connection	Specified Condition
S1-32 (GND2) - Body ground	Below 1 Ω

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REPAIR OR REPLACE HARNESS OR CONNECTOR (GND CIRCUIT)

OK

7INSPECT COMBINATION METER ASSEMBLY

- (a) Check combination meter assembly (See page [ME-3](#)).

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REPLACE COMBINATION METER ASSEMBLY

OK

REPLACE BRAKE ACTUATOR ASSEMBLY