ABS WARNING LIGHT CIRCUIT (REMAINS ON)

CIRCUIT DESCRIPTION

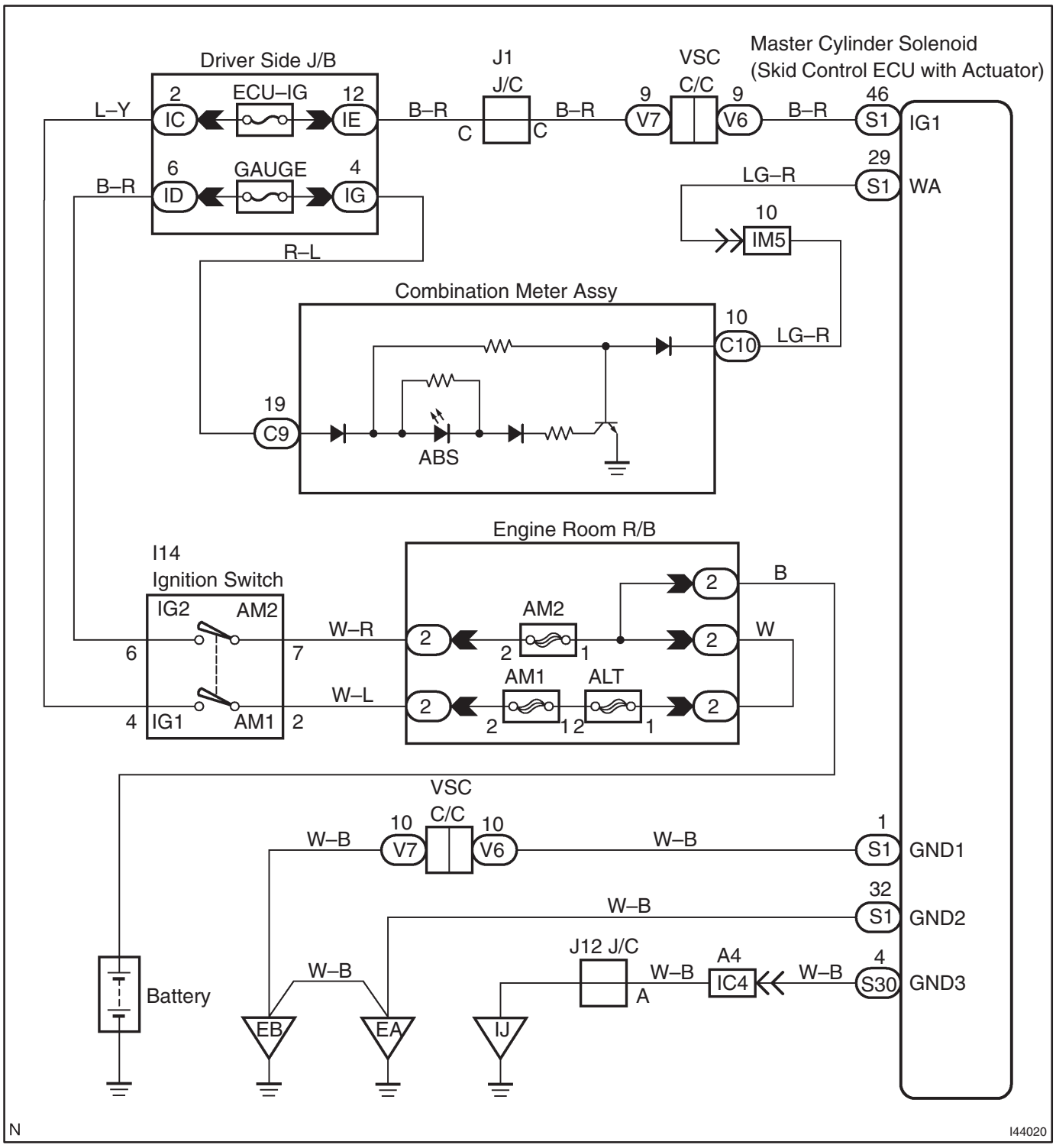
If any of the following is detected, the ABS warning light remains on.

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

HINT:

There is a case that the intelligent tester ll cannot be used when the skid control ECU is abnormal.

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

When replacing the master cylinder solenoid, perform zero point calibration (see page 05–744).

1	INSPECT IF SKID CONTROL ECU CONNECTOR IS SECURELY CONNECTED

(a) Check the skid control ECU connector's connecting condition.
OK:
The connector should be securely connected.

NG → **CONNECT CONNECTOR TO ECU**

OK

2	INSPECT BATTERY

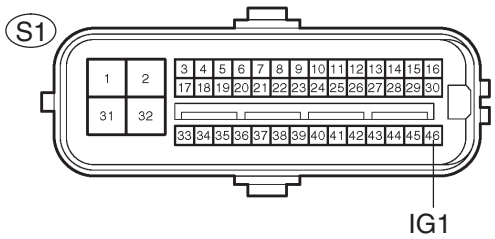
(a) Check the battery voltage.
Standard:
Voltage: 11 to 14 V

NG → **GO TO CHARGING SYSTEM (SEE PUB. NO. RM1017E, PAGE 19–6) (SEE PUB. NO. RM990E, PAGE 19–36)**

OK

3	INSPECT SKID CONTROL ECU (IG1 TERMINAL VOLTAGE)

Skid Control ECU (Wire Harness Side) Connector Front View:



(a) Disconnect the skid control ECU connector.
(b) Turn the ignition switch to the ON position.
(c) Measure the voltage according to the value(s) in the table below.
Standard:

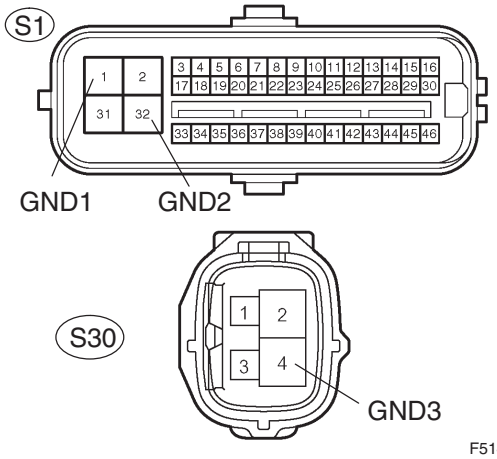
Tester Connection	Specified Condition
S1–46 (IG1) – Body ground	10 to 14 V

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (IG1 CIRCUIT)**

OK

4 INSPECT SKID CONTROL ECU (GND TERMINAL CONTINUITY)

Skid Control ECU (Wire Harness Side)
Connector Front View:



(a) Disconnect the skid control ECU (S30) connector.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

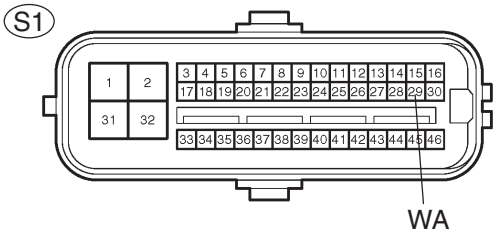
Tester Connection	Specified Condition
S1–1 (GND1) – Body ground	Below 1 Ω
S1–32 (GND2) – Body ground	Below 1 Ω
S30–4 (GND3) – Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (GND CIRCUIT)**

OK

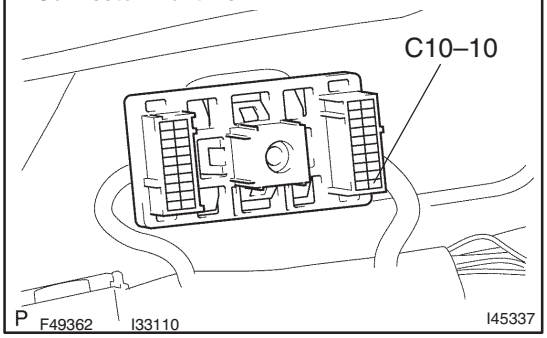
5 CHECK HARNESS AND CONNECTOR (BETWEEN SKID CONTROL ECU AND COMBINATION METER) (SEE PAGE 01–26)

Skid Control ECU (Wire Harness Side)
Connector Front View:



N

Combination Meter (Left Side of the Vehicle)
Connector Front View:



(a) Disconnect the combination meter connector.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
S1–29 (WA) – C10–10	Below 1 Ω
S1–29 (WA) – Body ground	10kΩ or higher

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

6	INSPECT COMBINATION METER ASSY

(a) Check the combination meter system (see page 05–1413).

NG → **REPLACE COMBINATION METER ASSY (SEE PUB. NO. RM990E, PAGE 71–24)**

OK

REPLACE MASTER CYLINDER SOLENOID (SEE PAGE 32–12)