ABS WARNING LIGHT CIRCUIT (REMAINS ON)

When reading DTCs by SST (CHECK WIRE), if the ABS warning light remains ON, troubleshoot by following the inspection flow.

CIRCUIT DESCRIPTION

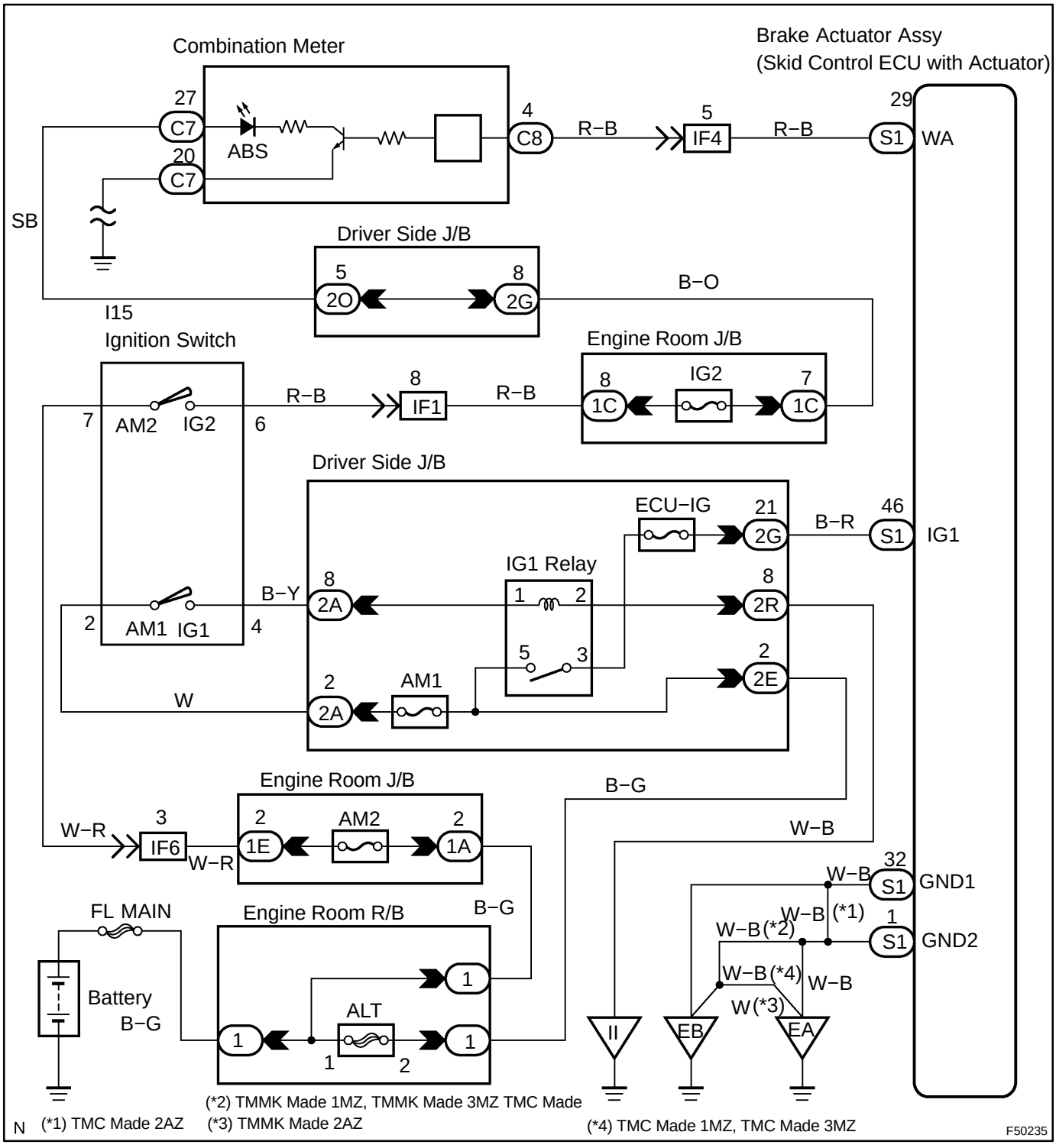
If any of the following is detected, the ABS warning light remains on:

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

HINT:

The hand−held tester may not be used when there is a malfunction in the skid control ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

When replacing the brake actuator assy, perform zero point calibration (see page 05−987).

1	CHECK DTC (SEE PAGE 05−1002)

A	Normal System Code
B	Malfunction Code

B → **REPAIR CIRCUIT INDICATED BY OUTPUT DTC (SEE PAGE 05−1010)**

A

2	CHECK IF SKID CONTROL ECU CONNECTOR IS SECURELY CONNECTED

NG → **CONNECT CONNECTOR TO ECU**

OK

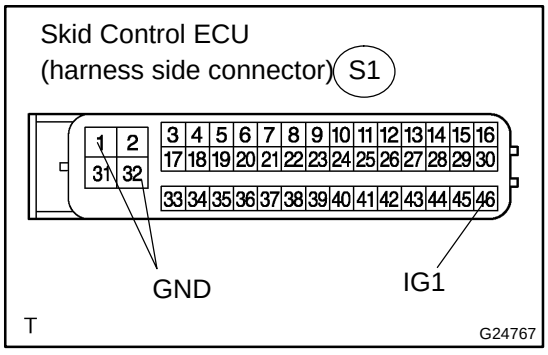
3	INSPECT SKID CONTROL ECU TERMINAL VOLTAGE(IG1 TERMINAL)

WHEN USING HAND−HELD TESTER:

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

Item	Measurement Item / Range (Display)	Normal Condition
IG VOLTAGE	ECU power supply voltage / UNDER / NORMAL / OVER	TOO HIGH: 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:

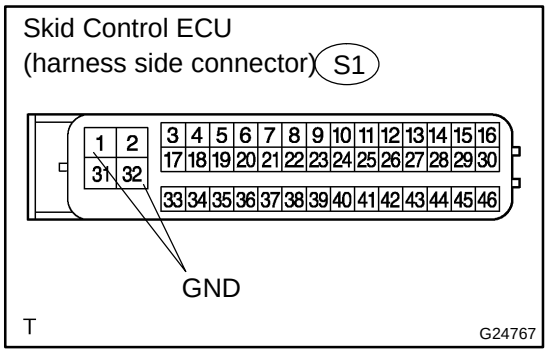
(a) Disconnect the skid control ECU connector.
(b) Turn the ignition switch to the ON position.
(c) Measure the voltage according to the value(s) in the table below.
Standard:

Tester Connection	Specified Condition
S1−46 (IG1) − S1−1 (GND2)	10 to 14 V
S1−46 (IG1) − S1−32 (GND1)	10 to 14 V

OK → **Go to step 5**

NG

4	CHECK HARNESS AND CONNECTOR(SKID CONTROL ECU − BODY GROUND)



(a) Disconnect the skid control ECU connector S1.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
S1−1 (GND2) − Body ground	Below 1 Ω
S1−32 (GND1) − Body ground	Below 1 Ω

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

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (IG1 CIRCUIT)

5	INSPECT HARNESS AND CONNECTOR(SKID CONTROL ECU − COMBINATION METER)

(a) Check the harness and connector between the skid control ECU and combination meter.

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

OK

6	CHECK COMBINATION METER ASSY

(a) Check the combination meter assy (see page 71−1).

NG → **REPAIR OR REPLACE COMBINATION METER ASSY (SEE PAGE 05−1999)**

OK

REPLACE BRAKE ACTUATOR ASSY (SEE PAGE 32−63)