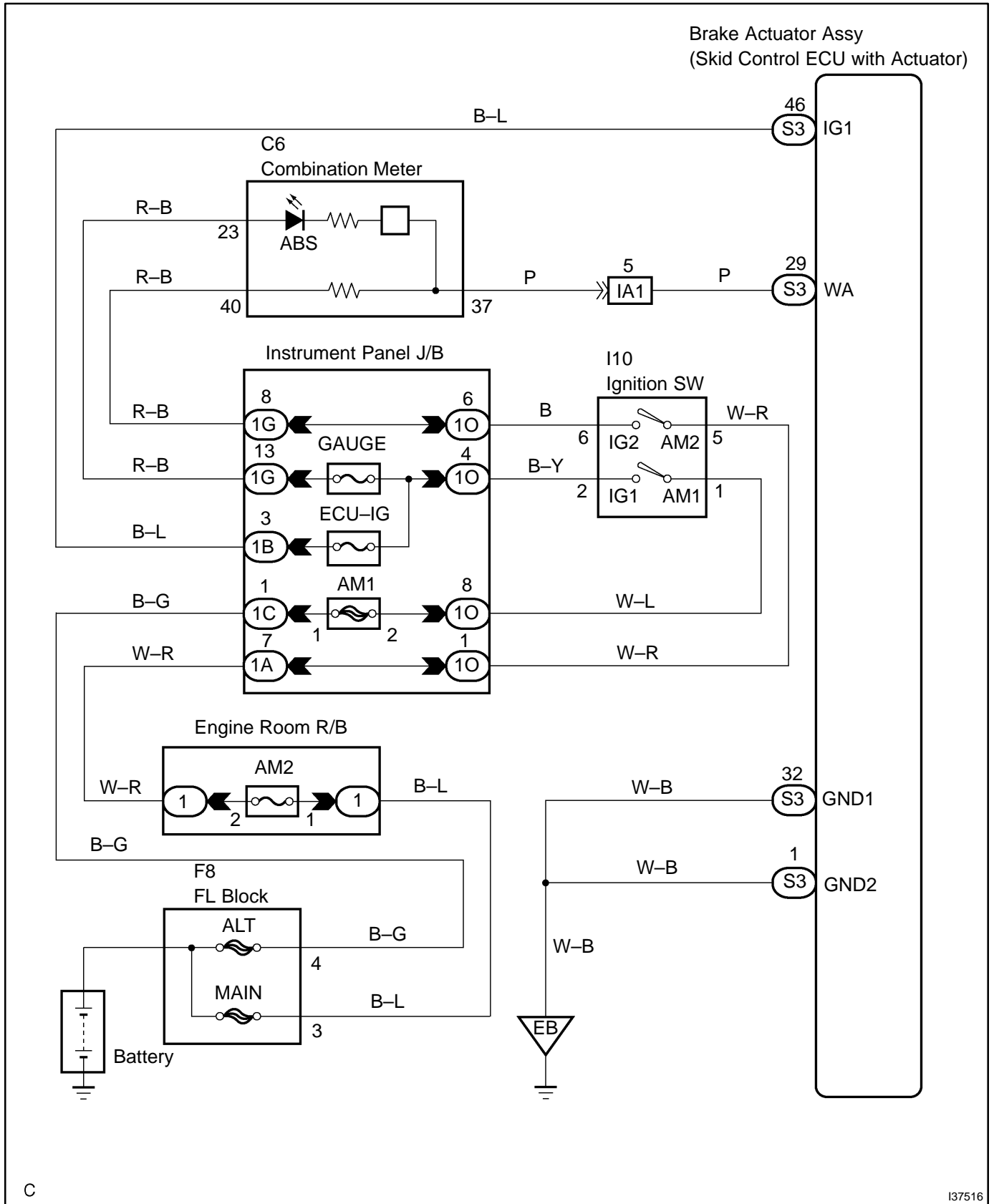


**ABS WARNING LIGHT CIRCUIT (REMAINS ON)****CIRCUIT DESCRIPTION**

DTC No.	DTC Detecting Condition	Trouble Area
Always ON	Either of the following 1.or 2. is detected: 1. Voltage of ECU terminal IG1 remains at more than 17 V. 2. There is a malfunction in the ECU internal circuit.	<ul style="list-style-type: none"><li>• Power source circuit</li><li>• ABS warning light circuit</li><li>• Skid control ECU</li><li>• Charging system</li></ul>

# WIRING DIAGRAM



**INSPECTION PROCEDURE****1 CHECK DTC FOR ABS**

- (a) Check if the other DTCs are recorded. (See page 05-266)

**NO** → **Go to step 2****YES****REPAIR CIRCUIT INDICATED BY OUTPUT CODE****2 INSPECT SKID CONTROL ECU CONNECTOR SECURELY CONNECTED(See page 01-30)****NO** → **CONNECT CONNECTOR TO ECU****YES****3 INSPECT BATTERY**

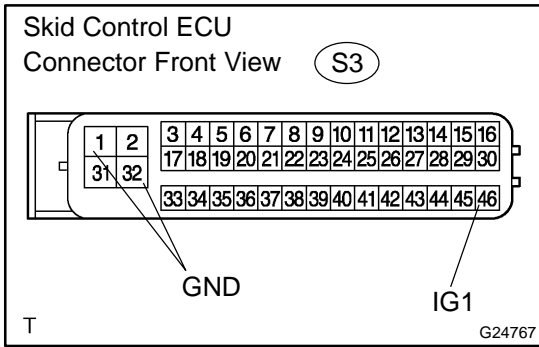
- (a) Check the battery positive voltage.

**Standard:****Voltage: 11 to 14 V****NG** → **INSPECT CHARGING SYSTEM****OK****4 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 the DATA LIST mode on the hand-held tester.
- (d) Check the voltage condition output from the ECU displayed on the hand-held tester.

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

**Standard:****"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.

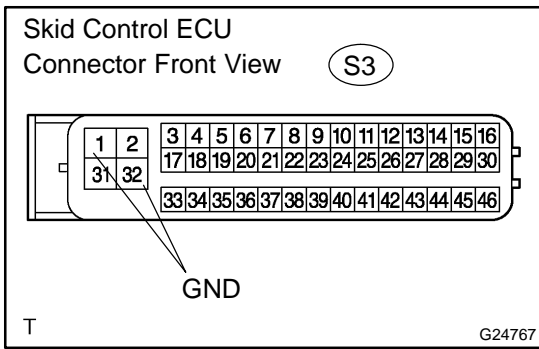
**Standard:**

Tester Connection	Specified Condition
IG1 (S3-46) – GND (S3-1, 32)	10 to 14 V

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

**OK**

**5 CHECK HARNESS AND CONNECTOR(SKID CONTROL ECU – BODY GROUND)**



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

**Standard:**

Tester Connection	Specified Condition
GND (S3-1, 32) – Body ground	1 Ω or less

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

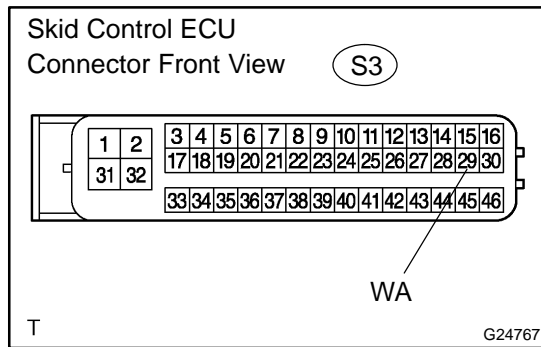
**OK**

**6 INSPECT ABS WARNING LIGHT**

**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.
- (c) Check that "ON" and "OFF" of the ABS warning light can be shown on the combination meter by the hand-held tester.

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

**WHEN NOT USING HAND-HELD TESTER:**

- Turn the ignition switch off and disconnect the connector from the skid control ECU.
- Ground the terminal WA of the skid control ECU.
- Turn the ignition switch to the ON position.
- Check the ABS warning light turns off.

**Standard:****ABS warning light turns off.****NG****CHECK AND REPAIR ABS WARNING LIGHT CIRCUIT****OK****REPLACE BRAKE ACTUATOR ASSY (See page 32-39)****NOTICE:**

When replacing the brake actuator assy, perform the zero point calibration (See page 05-279).