

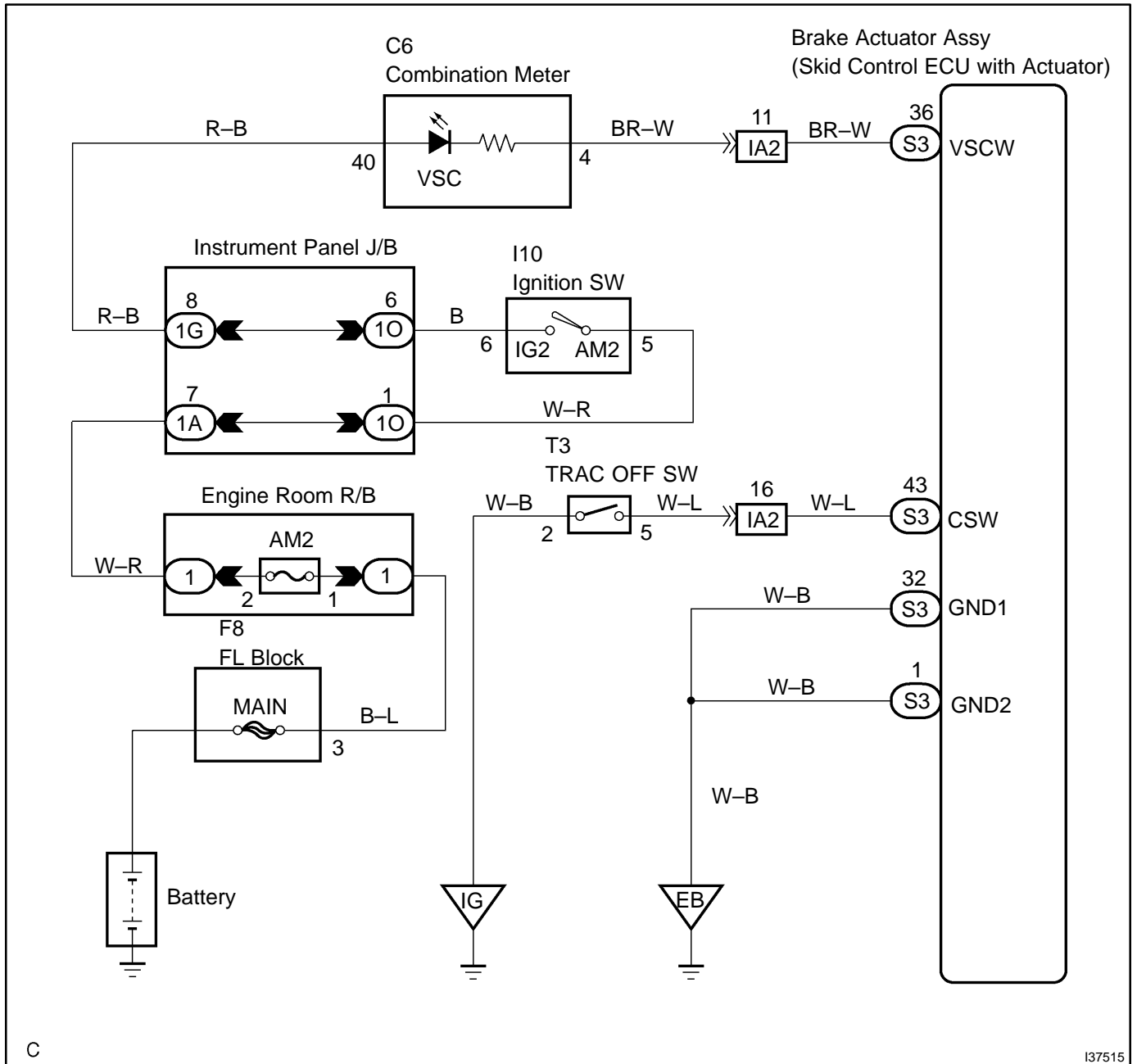
VSC WARNING LIGHT CIRCUIT (REMAINS ON)

CIRCUIT DESCRIPTION

If the ECU stores DTC, the VSC warning light lights on the combination meter.

DTC No.	DTC Detecting Condition	Trouble Area
Always ON	Malfunction in skid control ECU	<ul style="list-style-type: none"> VSC warning light circuit Power source circuit Brake actuator assy (Skid control ECU with actuator)

WIRING DIAGRAM



C

137515

INSPECTION PROCEDURE**1 CHECK DTC FOR VSC**

- (a) Check if the DTCs for VSC 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

NO → CONNECT CONNECTOR TO ECU

YES

3 INSPECT BATTERY

- (a) Check battery positive voltage.

Standard:

Voltage: 11 to 14 V

NG → INSPECT CHARGING SYSTEM

OK

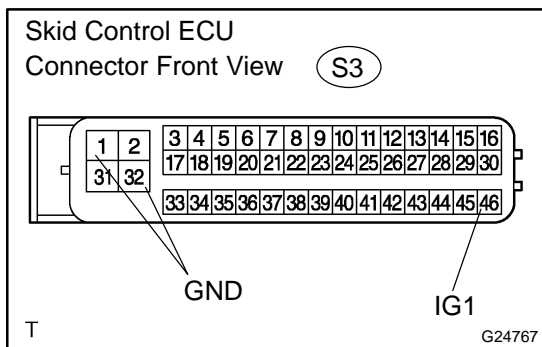
4 INSPECT SKID CONTROL ECU TERMINAL VOLTAGE(IG1 TERMINAL)**WHEN USING HAND-HELD TESTER:**

- (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.

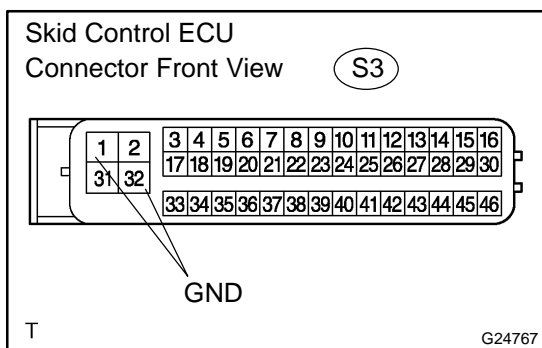
Standard:

Tester Connection	Specified Condition
IG1 (S3-46) – GND (S3-1, 32)	11 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(s) 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**

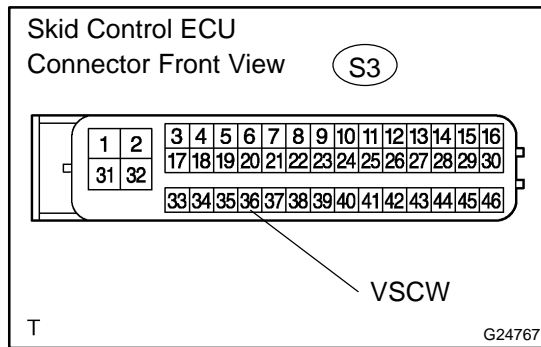
OK

6 CHECK VSC WARNING LIGHT

WHEN USING HAND-HELD TESTER:

- (a) Connect the hand-held tester to the DLC3 and start the engine.
- (b) Select the item "VSC WARN LIGHT" in the ACTIVE TEST and operate the VSC warning light on the hand-held tester.
- (c) Check that "ON" and "OFF" of the VSC warning light can be shown on the combination meter by the hand-held tester.

Item	Vehicle Condition / Test Details	Diagnostic Note
VSC WARN LIGHT	Turns VSC 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.
- Turn the ignition switch to the ON position.
- Check the VSC warning light turns off.

Standard:**VSC warning light turns off.****NG****CHECK AND REPAIR VSC 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).**