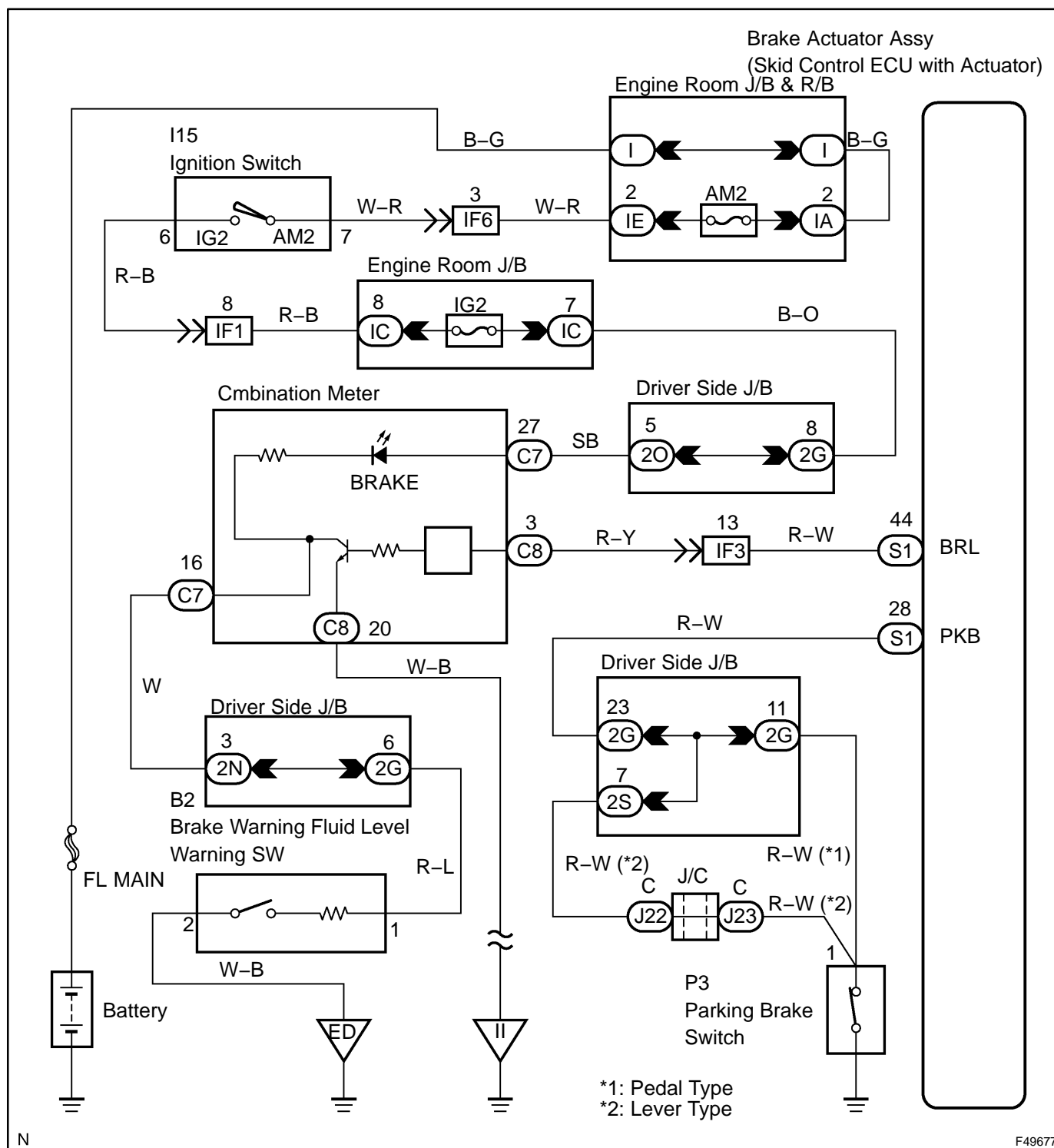


BRAKE WARNING LIGHT CIRCUIT

CIRCUIT DESCRIPTION

The BRAKE warning light comes on when the brake fluid is insufficient, the parking brake is applied or the EBD is defective.

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

When replacing the brake actuator assy, perform zero point calibration (see page [05-987](#)).

1	PERFORM PRE-CHECK
----------	--------------------------

- (a) Check that all of the following conditions for not illuminating the brake warning light are satisfied.
- (1) The ABS warning light is off.
 - (2) The amount of the brake fluid is between the min. line and max. line of the brake master cylinder reservoir.
 - (3) The parking brake pedal is fully released.

NOTICE:

When releasing the parking brake, move the shift lever into the P position to hold the vehicle for safety.

NEXT

2	CHECK DTC FOR ABS
----------	--------------------------

- (a) Check if the DTCs are recorded (see page [05-1002](#)).

NO

Go to step 3

YES

REPAIR CIRCUIT INDICATED BY OUTPUT CODE (SEE PAGE 05-1010)

3 INSPECT BRAKE WARNING LIGHT

WHEN USING HAND-HELD TESTER:

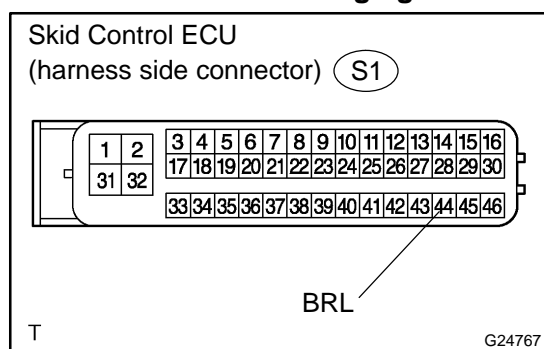
- Connect the hand-held tester to the DLC3.
- Start the engine.
- Select the "BRAKE WARN LIGHT" in the ACTIVE TEST and operate the BRAKE warning light on the hand-held tester.

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

- Check that "ON" and "OFF" of the BRAKE warning light are shown on the combination meter with the hand-held tester.

OK:

The BRAKE warning light is turned ON or OFF in accordance with the hand-held tester.



WHEN NOT USING HAND-HELD TESTER:

- Turn the ignition switch off and disconnect connector S1 from the skid control ECU.
- Turn the ignition switch to the ON position.

OK:

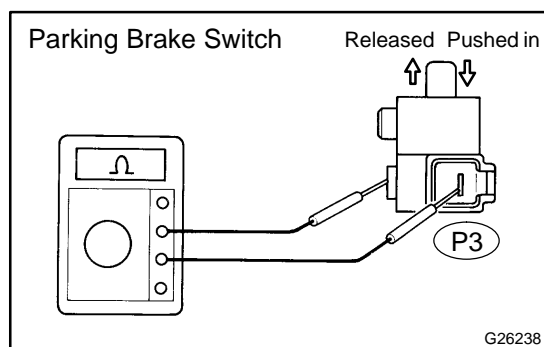
The brake warning light comes on.

OK

Go to step 8

NG

4 INSPECT PARKING BRAKE SWITCH ASSY



- Remove the parking brake switch assy.
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Switch Condition	Specified Condition
P3-1 – Ground part	Released	Below 1 Ω
P3-1 – Ground part	Pushed in	10 k Ω or higher

NG

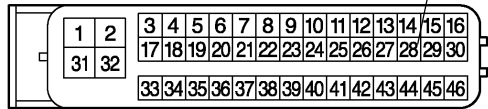
REPAIR PARKING BRAKE SWITCH ASSY

OK

5 CHECK HARNESS OR CONNECTOR(SKID CNTROL ECU – PARKING BRAKE SWITCH)

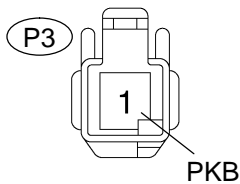
Skid Control ECU

(harness side connector) S1



Parking Brake Switch

(harness side connector)



G26242

- Disconnect the skid control ECU connector S1 and the parking brake switch connector P3.
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
S1-28 (PKB) – P3-1 (PKB)	Below 1 Ω

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

Standard:

Tester Connection	Specified Condition
S1-28 (PKB) – Body ground	10 k Ω or higher

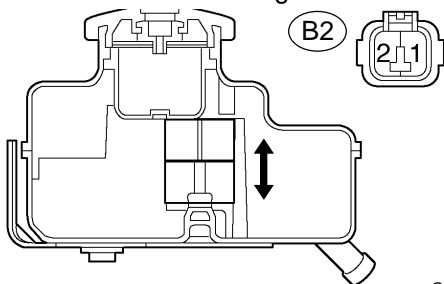
NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

6 INSPECT BRAKE FLUID LEVEL WARNING SWITCH

Brake Fluid Level Warning Switch



G26237

- Remove the reservoir tank cap and strainer.
- Disconnect the brake fluid level warning switch connector B2.
- Measure the resistance according to the value(s) in the table below.

Standard:

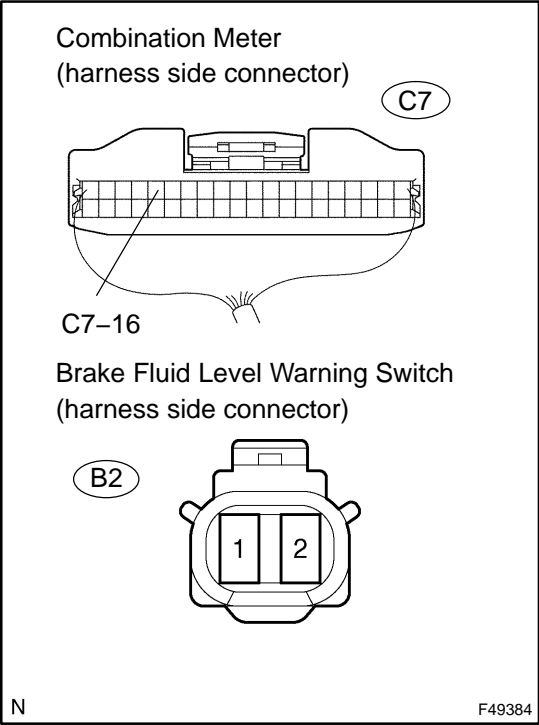
Tester Connection	Switch Condition	Specified Condition
(B2-1) – (B2-2)	Float UP	10 k Ω or higher
(B2-1) – (B2-2)	Float DOWN	Below 1 Ω

NG

REPLACE BRAKE FLUID LEVEL WARNING SWITCH

OK

7 CHECK HARNESS OR CONNECTOR(BRAKE FLUID LEVEL WARNING SWITCH - COMBINATION METER)



- (a) Disconnect the combination meter connector C8 and the brake fluid level warning switch connector B2.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
(C7-16) - (B2-1)	Below 1 Ω

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

Standard:

Tester Connection	Specified Condition
(C7-16) - Body ground	10 k Ω or higher

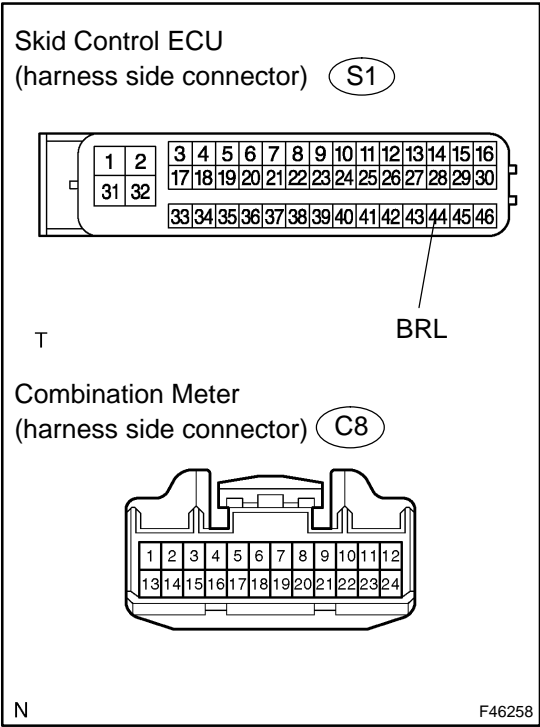
NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

8

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



- (a) Disconnect the skid control ECU connector S1 and combination meter connector C8.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
S1-44 (BRL) – C8-3	Below 1 Ω

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

Standard:

Tester Connection	Specified Condition
S1-44 (BRL) – Body ground	10 kΩ or higher

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

9

CHECK COMBINATION METER ASSY

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

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REPAIR OR REPLACE COMBINATION METER ASSY (SEE PAGE 05-1999)

OK

REPLACE BRAKE ACTUATOR ASSY (SEE PAGE 32-63)