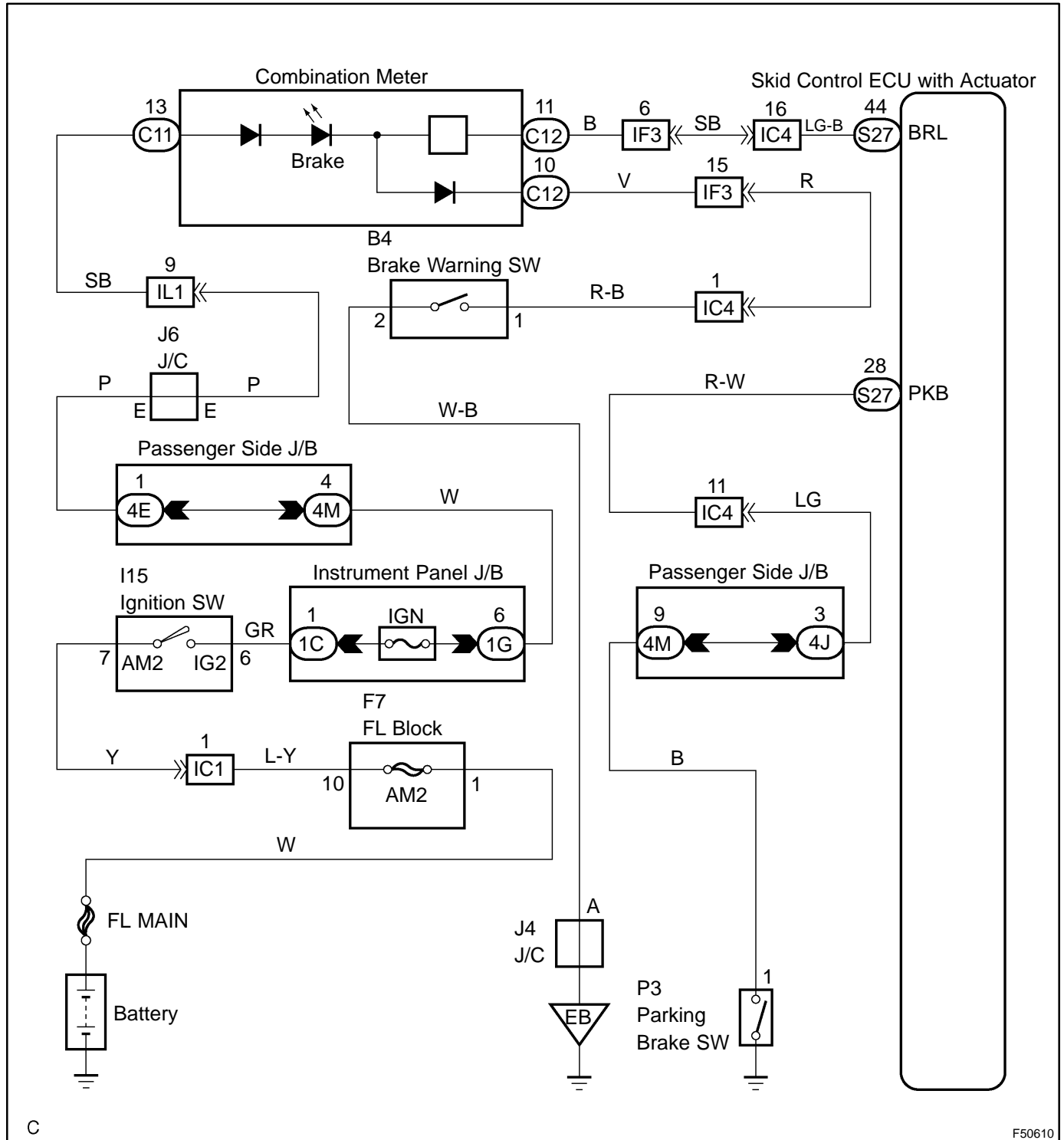


## BRAKE WARNING LIGHT CIRCUIT

### 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



F50610

## INSPECTION PROCEDURE

### HINT:

When releasing the parking brake, set the chocks to hold the vehicle for safety.

### 1 CHECK BRAKE FLUID

- (a) Release the parking brake pedal.
- (b) Check that the brake fluid level is proper.

NG

ADD BRAKE FLUID

OK

### 2 CHECK DTC FOR ABS

- (a) Are the DTC recorded? (see page [05-765](#) )

NO

Go to step 3

YES

### REPAIR CIRCUIT INDICATED BY OUTPUT CODE

### 3 INSPECT BRAKE WARNING LIGHT

#### WHEN USING HAND-HELD TESTER:

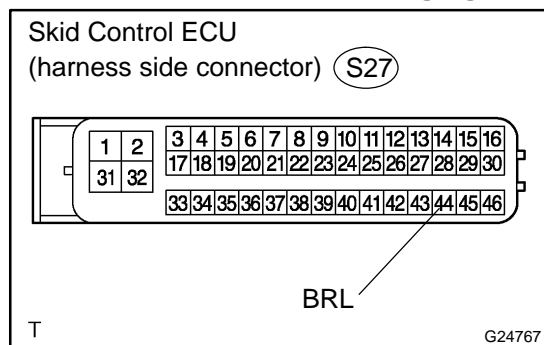
- (a) Connect the hand-held tester to the DLC3.
- (b) Start the engine.
- (c) Select the item "BRAKE WARN LIGHT" in the ACTIVE TEST and operate the BRAKE warning light on the hand-held tester.

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

- (d) Check that "ON" and "OFF" of the BRAKE warning light are indicated on the combination meter when using the hand-held tester.

OK:

Turn the BRAKE warning light on or off in accordance with the hand-held tester.



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

- (a) Turn the ignition switch off and disconnect the connector from the skid control ECU.
- (b) Ground terminal BRL of the skid control ECU.
- (c) Turn the ignition switch to the ON position.
- (d) Check that the brake warning light.

OK:

Turn the light on or off in accordance with the connection of terminal BRL and body ground.

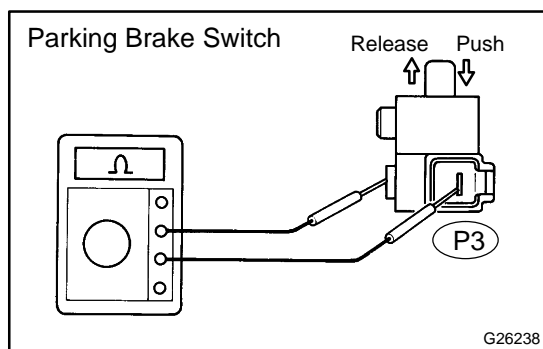
NG

Go to step 4

OK

### REPLACE ABS & TRACTION ACTUATOR ASSY (SEE PAGE [32-37](#) )

#### 4 INSPECT PARKING BRAKE SWITCH ASSY



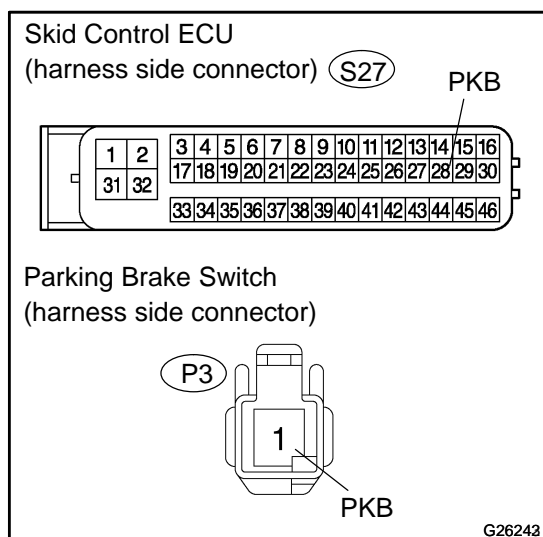
- Remove the parking brake switch connector.
- Measure the resistance according to the value(s) in the table below.

**Standard:**

Tester Connection	Switch Condition	Specified Condition
P3-1 - Ground part	Released	Below 1 $\Omega$
P3-1 - Ground part	Pushed in	10 k $\Omega$ or higher

**NG**
**REPLACE PARKING BRAKE SWITCH ASSY**
**OK**

#### 5 CHECK HARNESS OR CONNECTOR(SKID CONTROL ECU - PARKING BRAKE SWITCH)



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

**Standard:**

Tester Connection	Specified Condition
S27-28 (PKB) - P3-1 (PKB)	Below 1 $\Omega$

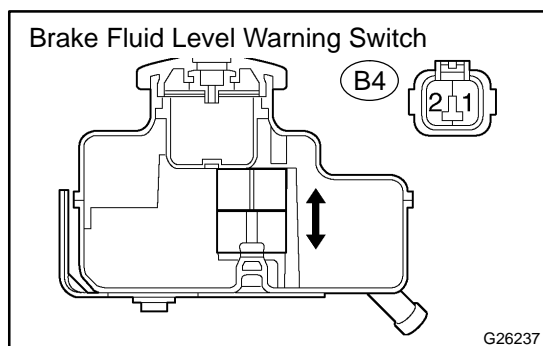
- Measure the resistance according to the value(s) in the table below.

**Standard:**

Tester Connection	Specified Condition
S27-28 (PKB) - Body ground	10 k $\Omega$ or higher

**NG**
**REPAIR OR REPLACE HARNESS OR CONNECTOR**
**OK**

#### 6 INSPECT BRAKE FLUID LEVEL WARNING SWITCH



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

**Standard:**

Tester Connection	Switch Condition	Specified Condition
(B4-1) - (B4-2)	Float UP	10 k $\Omega$ or higher
(B4-1) - (B4-2)	Float DOWN	Below 1 $\Omega$

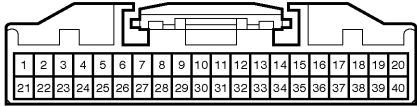
**NG**
**REPLACE BRAKE FLUID LEVEL WARNING SWITCH**
**OK**

7

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

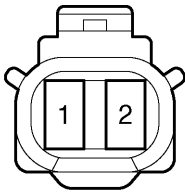
Combination Meter  
(harness side view)

C12



Brake Fluid Level Warning Switch  
(harness side connector)

B4



N

I37939

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

**Standard:**

Tester Connection	Specified Condition
(C12-10) - (B4-1)	Below 1 $\Omega$

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

**Standard:**

Tester Connection	Specified Condition
(C12-10) - Body ground	10 k $\Omega$ or higher

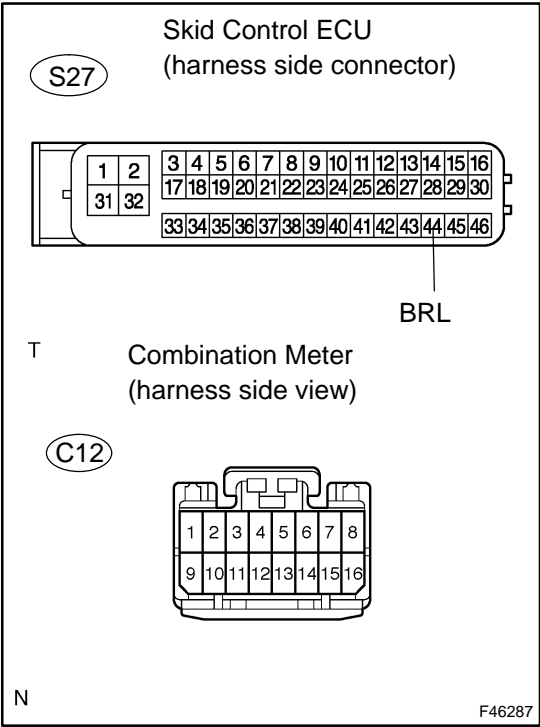
NG

**REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

8

CHECK HARNESS OR CONNECTOR(SKID CONTROL ECU - COMBINATION METER)



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

Standard:

Tester Connection	Specified Condition
S27-44 (BRL) - (C12-3)	Below 1 Ω

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

Standard:

Tester Connection	Specified Condition
S27-44 (BRL) - Body ground	10 kΩ or higher

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPAIR OR REPLACE COMBINATION METER ASSY (SEE PAGE 32-37 )