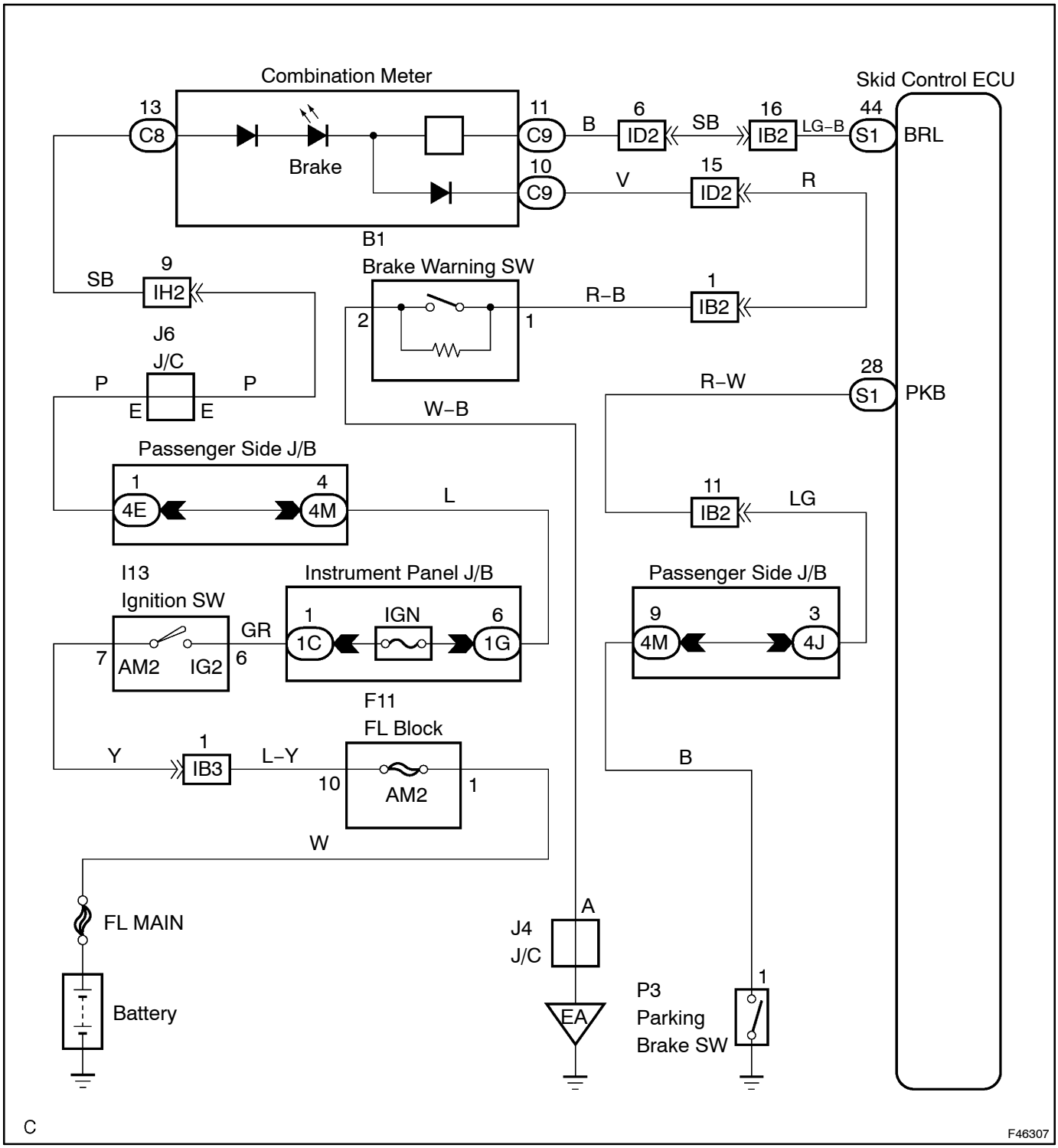
BRAKE WARNING LIGHT CIRCUIT

CIRCUIT DESCRIPTION

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

WIRING DIAGRAM



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 05–234)

NO → Go to step 3

YES

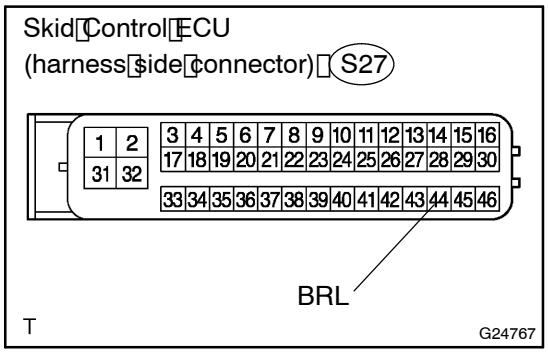
REPAIR CIRCUIT INDICATED BY OUTPUT CODE

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.



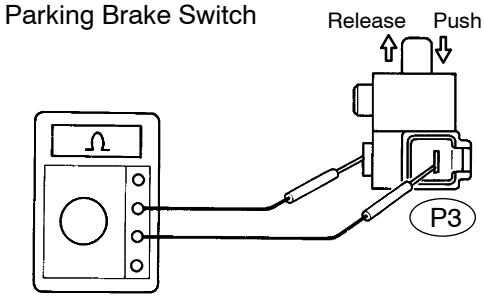
WHEN NOT USING HAND–HELD TESTER:
(a) Turn the ignition switch off and disconnect the connector from the skid control ECU.
(b) Ground terminal BRL of the skid control ECU.
(c) Turn the ignition switch to the ON position.
(d) Check that the brake warning light.
OK:
Turn the light on or off in accordance with the connection of terminal BRL and body ground.

NG → Go to step 4

OK

REPLACE ABS & TRACTION ACTUATOR ASSY (SEE PAGE 32–43)

4 INSPECT PARKING BRAKE SWITCH ASSY



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

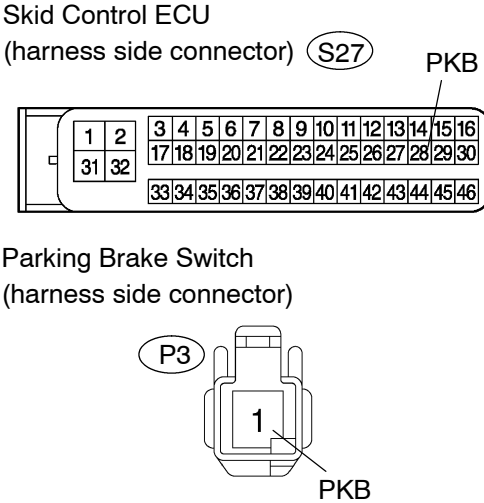
Standard:

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

NG → **REPLACE PARKING BRAKE SWITCH ASSY**

OK

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



(a) Disconnect the skid control ECU connector and the parking brake switch connector.
(b) 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 Ω

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

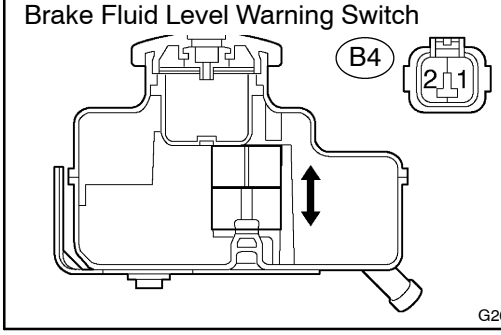
Standard:

Tester Connection	Specified Condition
S27–28 (PKB) – Body ground	10 kΩ or higher

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

OK

6 INSPECT BRAKE FLUID LEVEL WARNING SWITCH



(a) Remove the reservoir tank cap and strainer.
(b) Disconnect the brake fluid level warning switch connector.
(c) 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 kΩ or higher
(B4–1) – (B4–2)	Float DOWN	Below 1 Ω

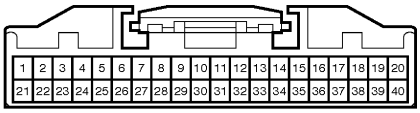
NG → **REPLACE BRAKE FLUID LEVEL WARNING SWITCH**

OK

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

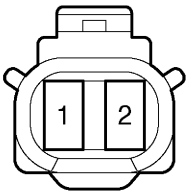
Combination Meter
(harness side view)

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
(C12–16) – (B4–1)	Below 1 Ω

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

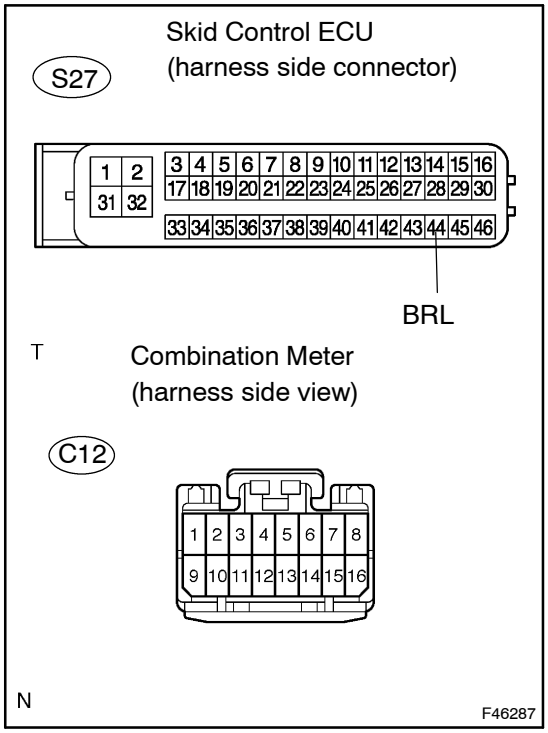
Standard:

Tester Connection	Specified Condition
(C12–16) – Body ground	10 kΩ 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