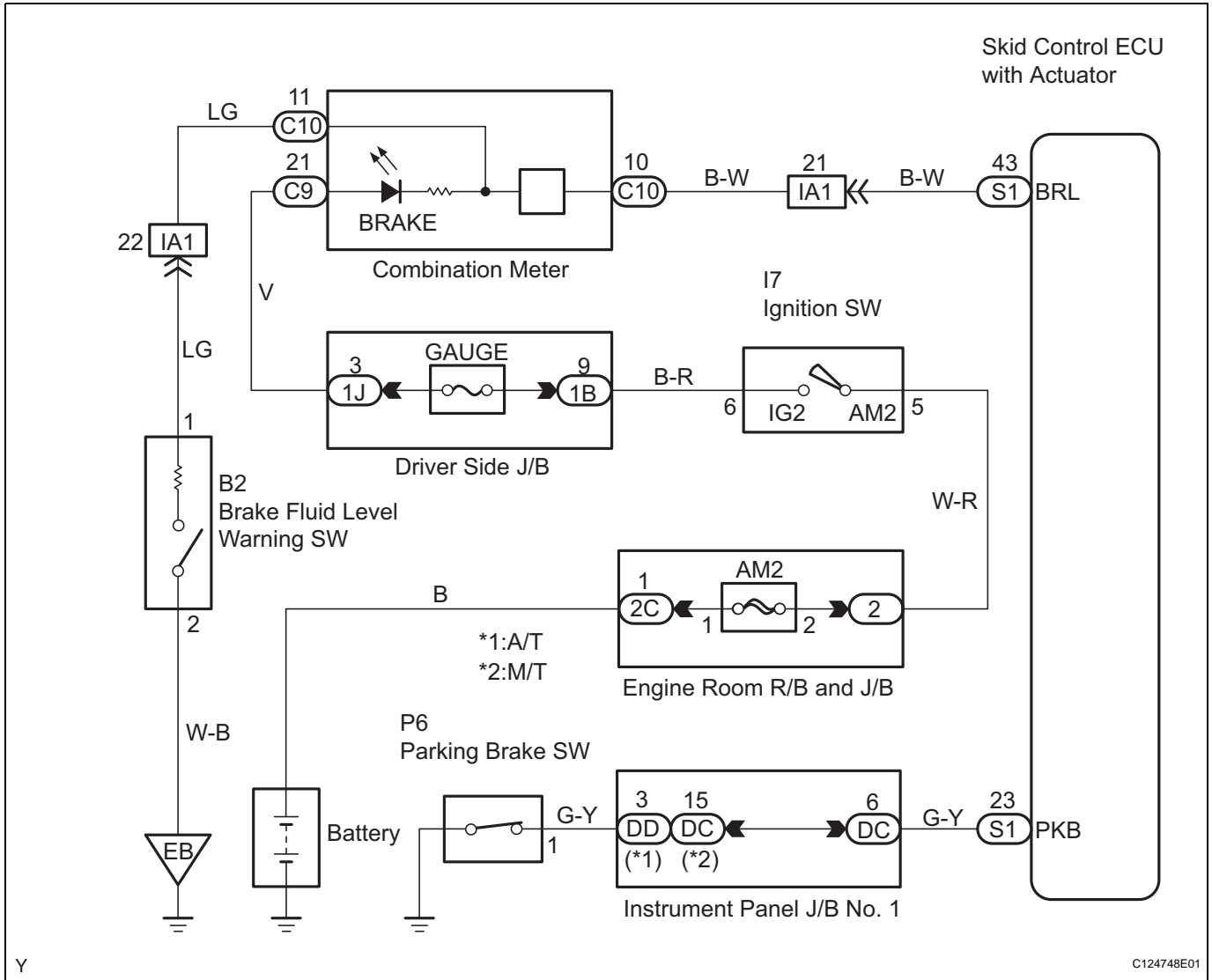


Brake Warning Light Circuit

DESCRIPTION

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

WIRING DIAGRAM



HINT:

Start the inspection from step 1 when using an intelligent tester and start from step 2 when not using an intelligent tester.

1 CHECK BRAKE FLUID LEVEL

(a) Check the amount of brake fluid in the brake reservoir.

OK:

Brake fluid level is correct.

NG

ADD BRAKE FLUID

OK

2 INSPECT BRAKE WARNING LIGHT

- (a) When using intelligent tester:
 - (1) Connect the intelligent tester to the DLC3.
 - (2) Turn the ignition switch to the ON position.
 - (3) Turn the intelligent tester ON.
 - (4) Select the item "BRAKE WARN LIGHT" in the ACTIVE TEST and operate the BRAKE warning light on the intelligent tester.

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

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

OK:

The BRAKE warning light comes on or goes off according to the intelligent tester operations.

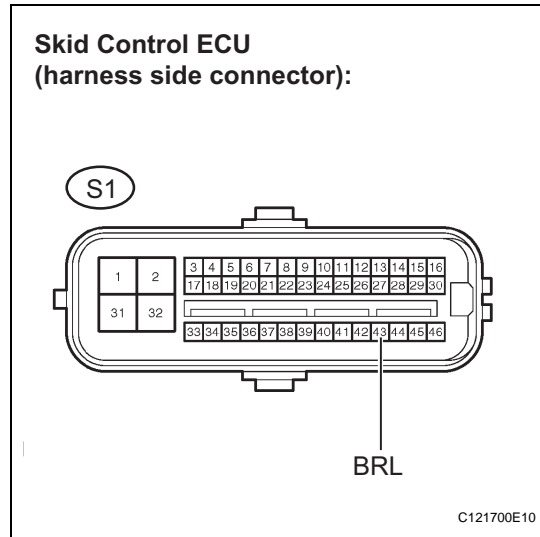
- (b) When not using intelligent tester:
 - (1) Disconnect the skid control ECU connector.
 - (2) Turn the ignition switch to the ON position.
 - (3) Ground terminal BRL of the skid control ECU.
 - (4) Check the BRAKE warning light.

OK

BRL - GND Condition	Illumination Condition
Connecting	OFF
Disconnecting	ON

- (5) Turn the ignition switch to OFF.
- (6) Reconnect the skid control ECU connector.

OK → **REPLACE BRAKE ACTUATOR**



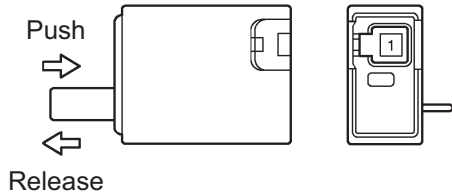
BC

NG

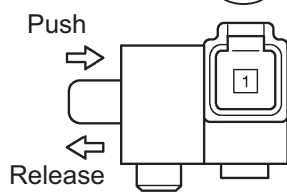
3 INSPECT PARKING BRAKE SWITCH ASSEMBLY

Parking Brake Switch:

A/T:



M/T:



Y

F052447E01

- (a) Disconnect the parking brake switch connector.
- (b) Measure the resistance.

Standard Resistance

Tester Connection	Condition	Specified Condition
P6-1 Body ground	Released	Below 1 Ω
P6-1 Body ground	Pushed in	10 kΩ or higher

- (c) Reconnect the parking brake switch connector.

NG

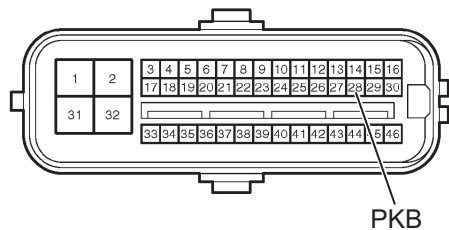
REPLACE PARKING BRAKE SWITCH ASSEMBLY

OK

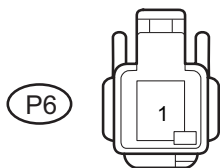
4 CHECK HARNESS AND CONNECTOR (SKID CONTROL ECU - PARKING BRAKE SWITCH)

BC

Skid Control ECU (harness side connector):



Parking Brake Switch (harness side connector):



C124797E01

- (a) Disconnect the skid control ECU connector.
- (b) Disconnect the parking brake switch connector.
- (c) Measure the resistance.

Standard Resistance

Tester Connection	Specified Condition
S1-23 (PKB) - P6-1	Below 1 Ω
S1-23 (PKB) - Body ground	10 kΩ or higher

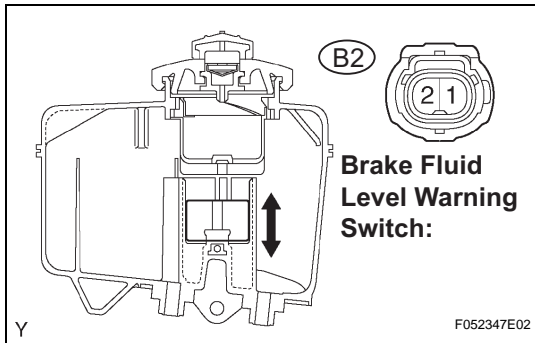
- (d) Reconnect the parking brake switch connector.
- (e) Reconnect the skid control ECU connector.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

5 INSPECT BRAKE FLUID LEVEL WARNING SWITCH CIRCUIT



- (a) Disconnect the brake fluid level warning switch connector.
- (b) Measure the resistance.

Standard Resistance

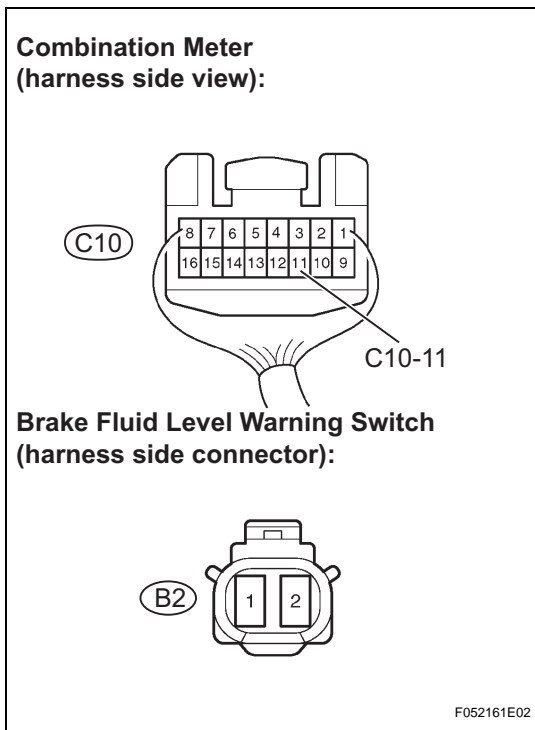
Tester Connection	Condition	Specified Condition
B2-1 - B2-2	Float UP	10 kΩ or higher
B2-1 - B2-2	Float DOWN	Below 1 Ω

- (c) Reconnect the brake fluid level warning switch connector.

NG → **REPLACE BRAKE FLUID RESERVOIR**

OK

6 CHECK HARNESS AND CONNECTOR (COMBINATION METER - BRAKE FLUID LEVEL WARNING SWITCH)



- (a) Disconnect the combination meter connector.
- (b) Disconnect the brake fluid level warning switch connector.
- (c) Measure the resistance.

Standard Resistance

Tester Connection	Specified Condition
C10-11 - B2-1	Below 1 Ω
C10-11 - Body ground	10 kΩ or higher

- (d) Reconnect the brake fluid level warning switch connector.
- (e) Reconnect the combination meter connector.

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

OK

7 INSPECT COMBINATION METER ASSEMBLY

- (a) Check the combination meter system (See page ME-7).
OK:
Combination meter is normal.

NG → **REPLACE COMBINATION METER**

OK

CHECK FOR INTERMITTENT PROBLEMS