

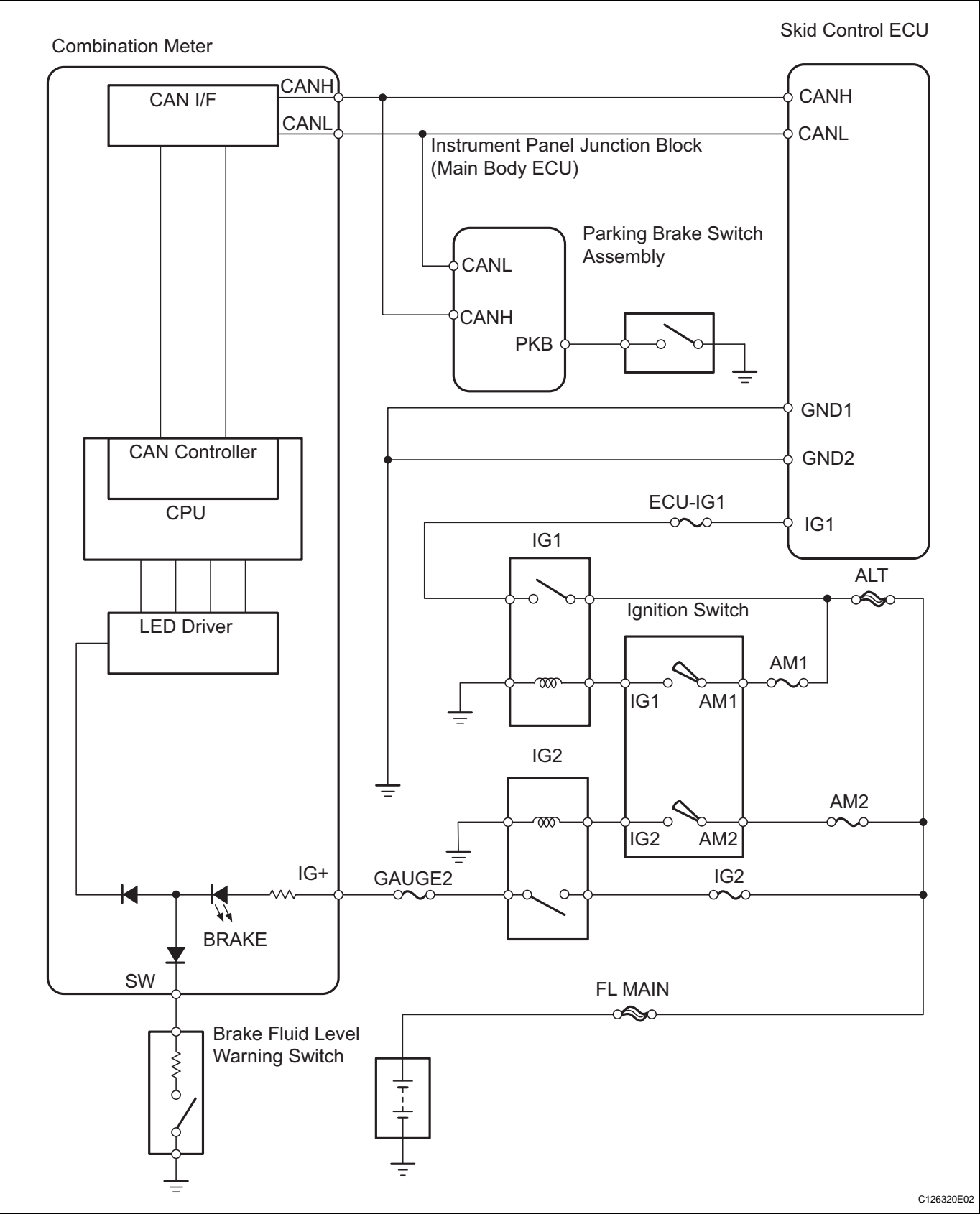
## Brake Warning Light Remains ON

### DESCRIPTION

If any of the following conditions are detected, the brake warning light remains on:

1. The ECU connectors are disconnected from the skid control ECU.
2. The brake fluid level is insufficient.
3. The parking brake is applied.
4. The EBD is defective.

WIRING DIAGRAM



## INSPECTION PROCEDURE

**1 PREPARE FOR INSPECTION**

- (a) Check that both of the following conditions are satisfied.
- The brake fluid level in the brake master cylinder reservoir is correct.
  - The parking brake is released.

HINT:

When the ABS warning light remains illuminated, repair the malfunctions in the ABS system first.

**NEXT**

**2 CHECK DTC FOR ABS**

- (a) Check if any ABS DTCs are output (see page [BC-47](#)).

**Result**

Result	Proceed to
DTC is not output	A
DTC is output	B

**B**

**REPAIR CIRCUITS INDICATED BY OUTPUT DTCs**

**A**

**3 CHECK CAN COMMUNICATION SYSTEM**

- (a) Check if the CAN communication system DTC is output (see page [CA-34](#)).

**Result**

Result	Proceed to
DTC is not output	A
DTC is output	B

**B**

**REPAIR CAN COMMUNICATION SYSTEM**

**A**

**4 INSPECT SKID CONTROL ECU CONNECTOR**

- (a) Check if the skid control ECU connector is properly installed.

**OK:**

The skid control ECU connector is properly installed.

**NG**

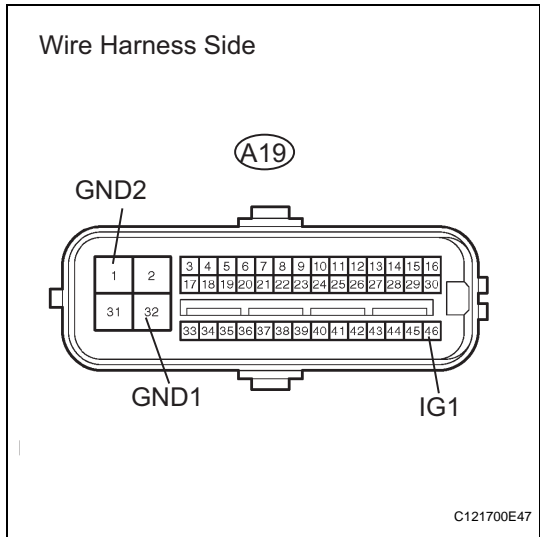
**CONNECT CONNECTOR TO ECU SECURELY**

**BC**

OK

5

CHECK WIRE HARNESS (SKID CONTROL ECU - BATTERY AND BODY GROUND)



- (a) Disconnect the A19 ECU connector.
- (b) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
A19-32 (GND1) - Body ground	Below 1 Ω
A19-1 (GND2) - Body ground	Below 1 Ω

- (c) Measure the voltage of the wire harness side connector.

Standard voltage

Tester Connection	Condition	Specified Condition
A19-46 (IG1) - Body ground	Ignition switch ON	10 to 14 V

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

BC

OK

6

READ VALUE OF INTELLIGENT TESTER (PARKING BRAKE SWITCH)

- (a) Using the DATA LIST, check for proper functioning of the parking brake switch.

Skid control ECU

Item (Display)	Measurement Item / Range (Display)	Normal Condition	Diagnostic Note
PARKING BRAKE SW	Parking brake switch / ON or OFF	ON: Parking brake applied OFF: Parking brake released	-

OK:

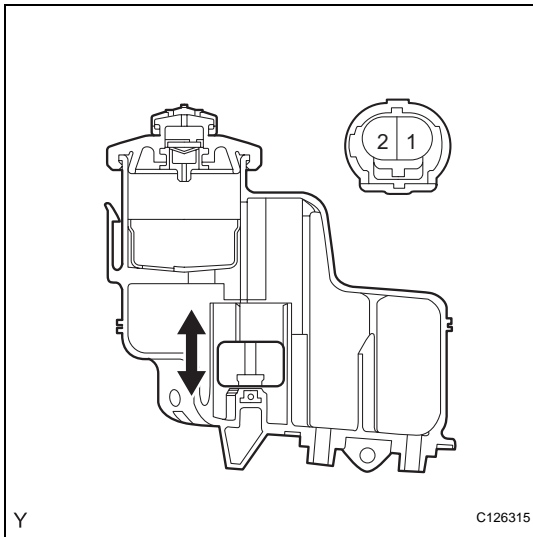
When the parking brake lever is operated, the display changes as shown above.

NG

Go to step 10

OK

# 7 INSPECT BRAKE FLUID LEVEL WARNING SWITCH



- Remove the reservoir tank cap and strainer.
- Disconnect the brake fluid level warning switch connector.
- Measure the resistance of the switch.

## HINT:

A float is placed inside the reservoir. Its position can be changed by increasing or decreasing the brake fluid level.

## Standard resistance

Tester Connection	Condition	Specified Condition
1 - 2	Float up (Switch OFF)	10 k $\Omega$ or higher
1 - 2	Float down (Switch ON)	Below 1 $\Omega$

## HINT:

If there is no problem after the above check is finished, adjust the brake fluid level to the MAX level.

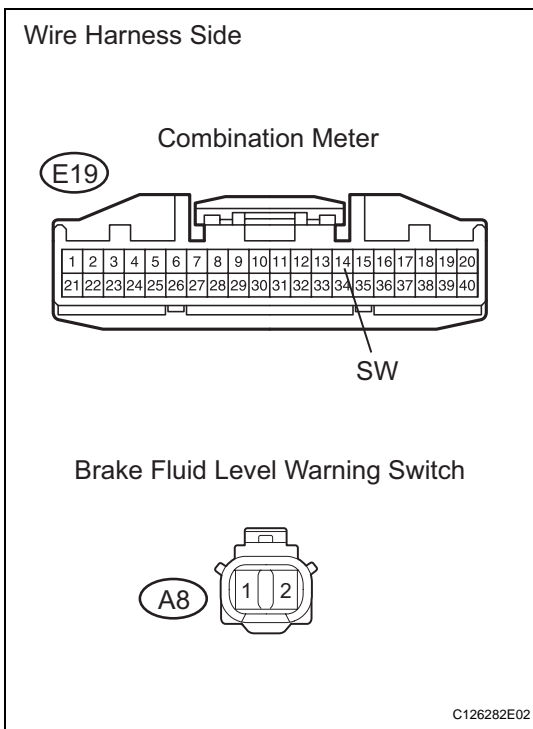
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REPLACE BRAKE MASTER CYLINDER  
RESERVOIR SUB-ASSEMBLY

BC

OK

# 8 CHECK WIRE HARNESS (LEVEL WARNING SWITCH - COMBINATION METER AND BODY GROUND)



- Disconnect the E19 combination meter connector.
- Disconnect the A8 switch connector.
- Measure the resistance of the wire harness side connectors.

## Standard resistance

Tester Connection	Specified Condition
E19-14 (SW) - A8-1	Below 1 $\Omega$
E19-14 (SW) - Body ground	10 k $\Omega$ or higher
A8-2 - Body ground	Below 1 $\Omega$

NG

REPAIR OR REPLACE HARNESS AND  
CONNECTOR

OK

9

INSPECT COMBINATION METER

(a) Inspect the combination meter (see page [ME-15](#)).

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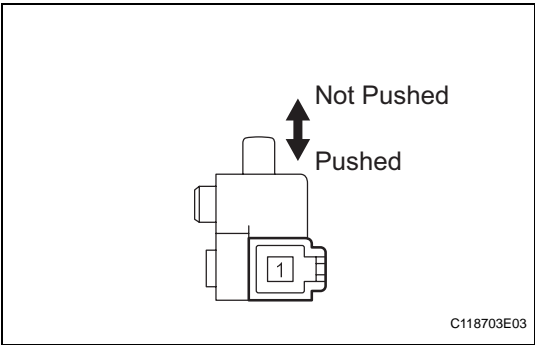
REPLACE COMBINATION METER

OK

REPLACE ABS AND TRACTION ACTUATOR ASSEMBLY

10

INSPECT PARKING BRAKE SWITCH ASSEMBLY



- (a) Remove the parking brake switch.
- (b) Measure the resistance of the switch.

Standard resistance

Tester Connection	Condition	Specified Condition
1 - Body ground	Parking brake switch ON (Switch pin not pushed)	Below 1 Ω
1 - Body ground	Parking brake switch OFF (Switch pin pushed)	10 kΩ or higher

NG

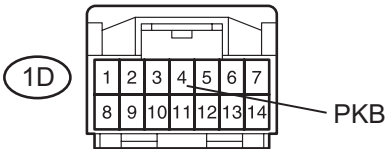
REPLACE PARKING BRAKE SWITCH ASSEMBLY

OK

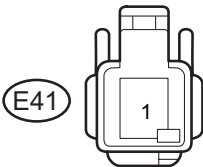
11
 CHECK WIRE HARNESS (JUNCTION BLOCK - PARKING BRAKE SWITCH AND BODY GROUND)

Wire Harness Side

Instrument Panel Junction Block  
(Main Body ECU)



Parking Brake Switch



C126283E02

- Disconnect the 1D junction block connector.
- Disconnect the E41 switch connector.
- Measure the resistance of the wire harness side connectors.

Standard resistance

Tester Connection	Specified Condition
1D-4 (PKB) - E41-1	Below 1 $\Omega$
1D-4 (PKB) - Body ground	10 k $\Omega$ or higher

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

BC

REPLACE INSTRUMENT PANEL JUNCTION BLOCK