BRAKE WARNING LIGHT CIRCUIT

CIRCUIT DESCRIPTION

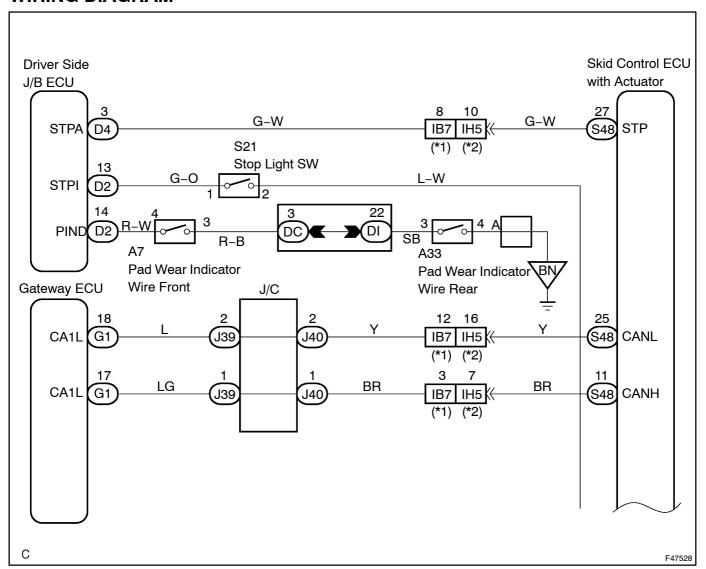
The BRAKE warning light comes on when the brake fluid is insufficient, the parking brake is applied or the EBD is defective.

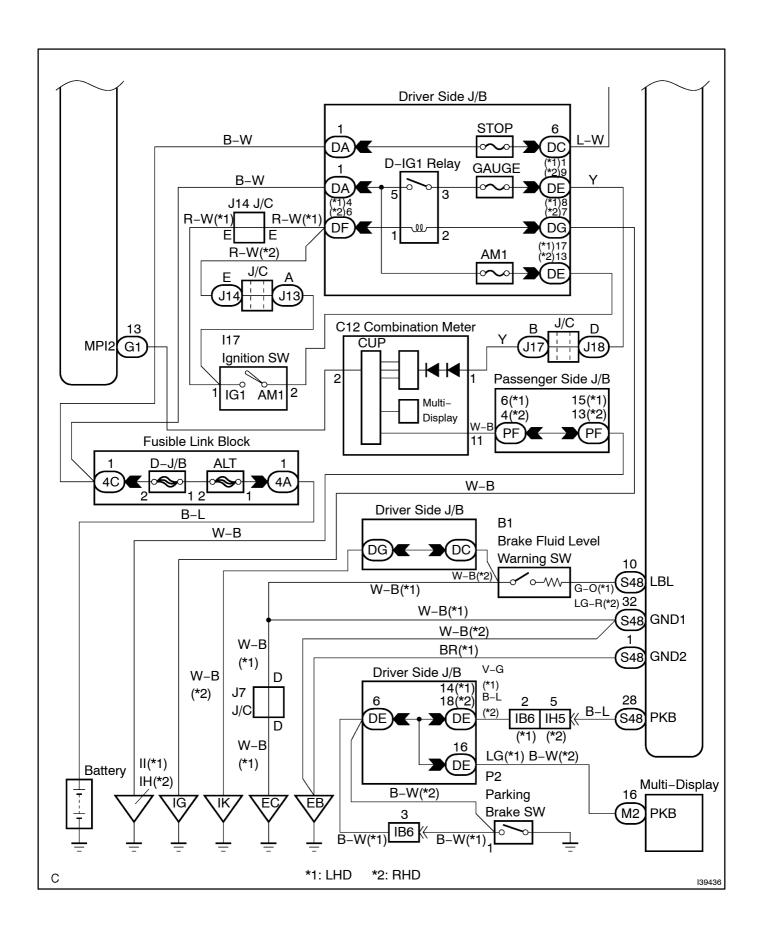
The skid control ECU is connected to the combination meter via CAN and Multiplex communications.

The pad wear indicator is installed to the brake pad (right side).

If the wear indicator wire is open, "Brake Wear" appears on the multi-information display, which indicates that the pad must be replaced.

WIRING DIAGRAM





INSPECTION PROCEDURE

HINT:

- When releasing the parking brake, set the chocks to hold the vehicle for safety.
- Check that "Brake Wear" does not appear on the multi-information display.
 If it appears, check that brake pad thickness and replace the pad as necessary.

1 CHECK BRAKE FLUID LEVEL IN RESERVOIR

(a) Check that the brake fluid level is proper.

OK:

Brake fluid level is proper.

NG ADD BRAKE FLUID

OK

2 CHECK DTC

(a) Are the DTC recorded for ABS, VSC, CAN and/or Multiplex communication system ? **OK:**

DTC is not output	A
DTC is output	В
Γ	B REPAIR CIRCUIT INDICATED BY OUTPUT

B REPAIR CIRCUIT INDICATED BY OUTPUT CODE

Α

3 | INSPECT[BRAKE[WARNING[LIGHT

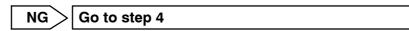
- (a) Connect the intelligent tester to the CDLC3.
- (b) Start the pengine.
- (c) Select[the[i]em[]Brk[Light"[i]ht[he[ACTIVE[]EST[and[]perate[the[BRAKE[warning[]ght[]]nt[]htelintelligent tester[]].

Item	Vehicle [Condition[][Test[Details	Diagnostic <u>[</u> Note
Brake[Warning[Light	Turns[BRAKE[warning[]ight[DN[][DFF	Observe@combination@ne-ter

(d) Check[that[]ON"[and[]OFF"[of[the]BRAKE[warning[]ight[are[indicated[on[the]combination[]neter[when using[the]ntelligent[]ester[]].

OK:

Turn[the[BRAKE[warning[light[on[or[off[]n[accordance[with[]the[]ntelligent[]ester[]l.



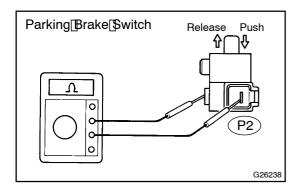
OK

REPLACE[ABS[&[TRACTION[ACTUATOR[ASSY[[SEE[PAGE[32-53]]

NOTICE:

When replacing the ABS TRACTION actuator assy, perform zero point calibration see page 05–387).

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:

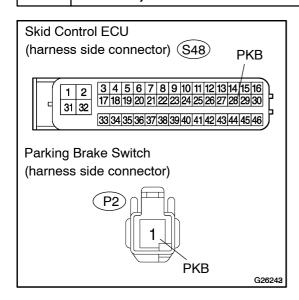
Tester Connection	Switch Condition	Specified Condition
P2-1 - Ground part	Released	Below 1 Ω
P2-1 - Ground part	Pushed in	1 M Ω or higher

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
S48-28 (PKB) - P2-1 (PKB)	Below 1 Ω

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

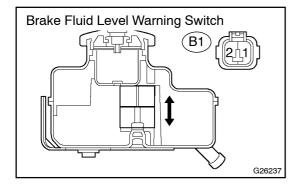
Standard:

Tester Connection	Specified Condition
S48-28 (PKB) - Body ground	1 M Ω 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
(B1-1) - (B1-2)	Float UP	1 M Ω or higher
(B1-1) - (B1-2)	Float DOWN	Below 1 Ω

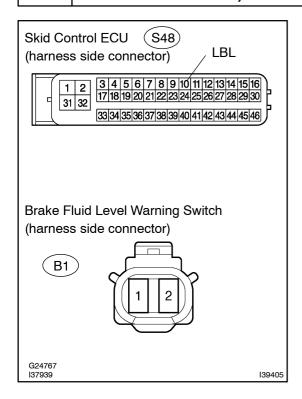
NG

REPLACE BRAKE FLUID LEVEL WARNING SWITCH

OK

7

CHECK HARNESS OR CONNECTOR(BRAKE FLUID LEVEL WARNING SWITCH – SKID CONTROL ECU)



- (a) Disconnect the skid control ECU 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
S48-10 (LBL) - (B1-1)	Below 1 Ω

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

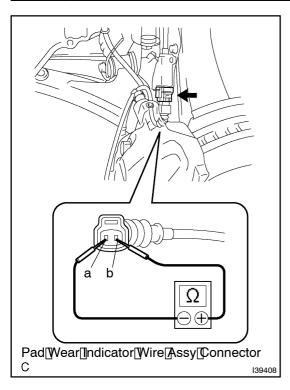
Standard:

Tester Connection	Specified Condition
S48-10 (LBL) - Body ground	1 M Ω or higher

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

8 | INSPECT[PAD[WEAR[INDICATOR[WIRE]ASSY



FRONT:

HINT:

Check[]hat[]here[are[]no[]scratches[]or[]cracks[]on[]he[]pad[]wear indicator.

- (a) Remove the front wheel RH.
- (b) Disconnect front pad wear indicator connector.
- (c) Measure[the[resistance[according[to[the[value(s)]]n[the table[below.

Standard:

Tester[Connection	Specified Condition
Terminala - Terminal	Below[] [Ω
Terminala –Bodyground	1 MΩ[ɸr[ħigher

REAR:

HINT:

 $Check \cite{there} are \cite{there} ere \cite{there} er$

- (a) Remove the rear wheel RH.
- (b) Disconnect he pad wear indicator connector.
- (c) Measure[the[resistance[according[to[the[value(s)]]n[the table[below.

Standard:

Tester@onnection	Specified[Condition
Terminal[a -[Terminal[b	Below[] [Ω
Terminala -Bodyground	1 M Ω or higher

NG

REPLACE PAD WEAR INDICATOR WIRE ASSY

OK

REPLACE[ABS[&[TRACTION[ACTUATOR[ASSY[[SEE[PAGE[32-53]]

NOTICE:

When replacing the ABS & TRACTION Actuator assy, perform zero point calibration (see page 05–387).