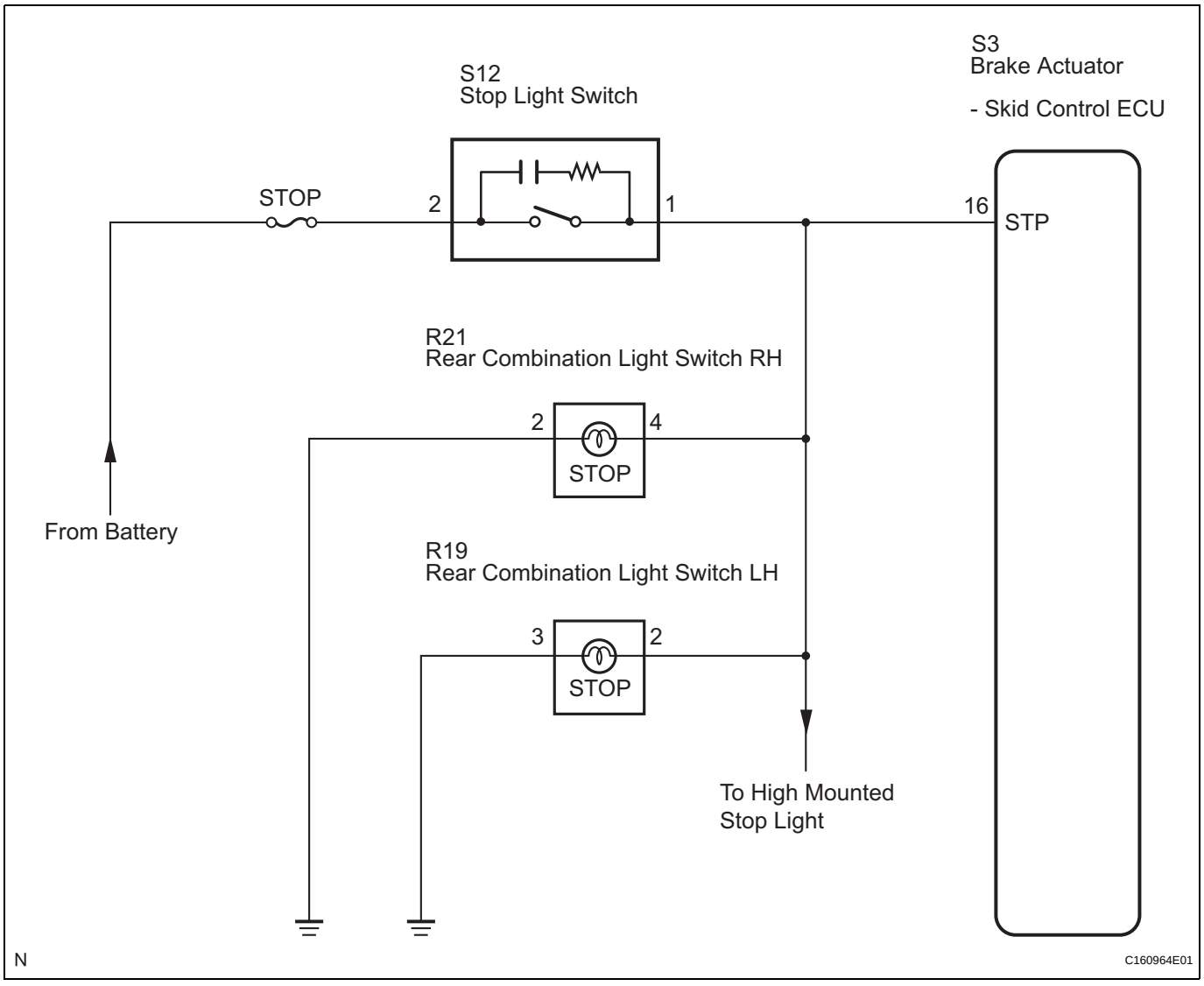
DTC	C1249/49	Open in Stop Light Switch Circuit

DESCRIPTION

This skid control ECU inputs the stop light switch signal and detects the status of brake operation.
The skid control ECU has an open detection circuit. If an open in the stop light switch input line or GND side stop light circuit is detected when the stop light switch is off, this DTC is output.

DTC No.	DTC Detection Condition	Trouble Area
C1249/49	With the IG1 terminal voltage at 10 V to 16 V, ABS is not operating and stop light switch circuit is open for 1 second or more.	• Stop light switch • Stop light switch circuit

WIRING DIAGRAM



BC

INSPECTION PROCEDURE

1	CHECK STOP LIGHT SWITCH OPERATION

(a) Check that the stop light comes on when the brake pedal is depressed, and goes off when the brake pedal is released.

OK:

Stop light switch function is normal.

HINT:

Check the stop light bulb as it may have burnt out.

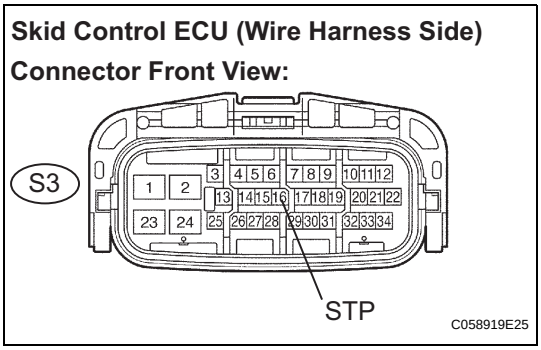
NG → **Go to step 4**

OK

2	INSPECT SKID CONTROL ECU (STP TERMINAL VOLTAGE)

Skid Control ECU (Wire Harness Side)

Connector Front View:



(a) Disconnect the skid control ECU connector.

(b) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
S3-16 (STP) - Body ground	Stop light switch ON (Brake pedal depressed)	8 to 16 V
S3-16 (STP) - Body ground	Stop light switch OFF (Brake pedal released)	Below 1.5 V

Result

Condition	Proceed to
OK (When troubleshooting in accordance with the DTC CHART)	A
OK (When troubleshooting in accordance with the PROBLEM SYMPTOMS TABLE)	B
NG	C

B → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

C → **REPAIR OR REPLACE HARNESS OR CONNECTOR (STP CIRCUIT)**

A

3	RECONFIRM DTC

(a) Clear the DTC (See page BC-10).

(b) Check that the same DTC is recorded (See page BC-10).

HINT:

Reinstall the sensors, connectors, etc. and restore the vehicle to its prior condition before rechecking for DTCs.

Result

Condition	Proceed to
DTC (C1249/49) is output	A
DTC (C1249/49) is not output	B

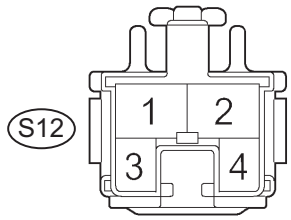
B → END

A

REPLACE BRAKE ACTUATOR ASSEMBLY

4 INSPECT STOP LIGHT SWITCH (POWER SOURCE TERMINAL VOLTAGE)

Stop Light Switch (Wire Harness Side)
Connector Front View:



I042363E11

(a) Disconnect the stop light switch connector.
(b) Measure the voltage according to the value(s) in the table below.
Standard voltage

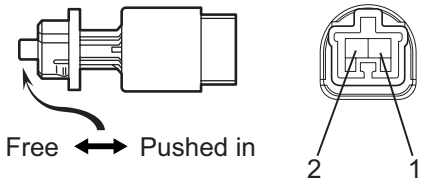
Tester Connection	Condition	Specified Condition
S12-2 - Body ground	Always	10 to 14 V

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (POWER SOURCE CIRCUIT)**

OK

5 INSPECT STOP LIGHT SWITCH

Component without harness connected:
(Stop Light Switch)



H

C146625E04

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

Tester Connection	Condition	Specified Condition
1 - 2	Switch pin free	Below 1 Ω
1 - 2	Switch pin pushed in	10 kΩ or higher

NG → **REPLACE STOP LIGHT SWITCH**

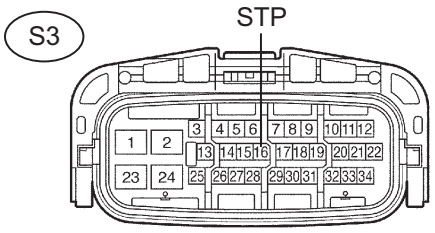
OK

BC

6	CHECK HARNESS AND CONNECTOR (BETWEEN SKID CONTROL ECU AND STOP LIGHT SWITCH)

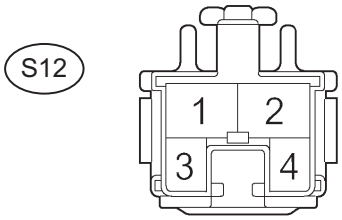
Skid Control ECU (Wire Harness Side)

Connector Front View:



Stop Light Switch (Wire Harness Side)

Connector Front View:



C112579E03

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

Standard resistance

Tester Connection	Specified Condition
S3-16 (STP) - S12-1	Below 1 Ω
S3-16 (STP) - Body ground	10 kΩ or higher

HINT:

- When troubleshooting in accordance with the DTC CHART, check DTCs before replacing the brake actuator assembly (See page BC-10).
- When troubleshooting in accordance with the PROBLEM SYMPTOMS TABLE, be sure to follow the table before replacing the brake actuator assembly (See page BC-7).

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

OK

REPLACE BRAKE ACTUATOR ASSEMBLY