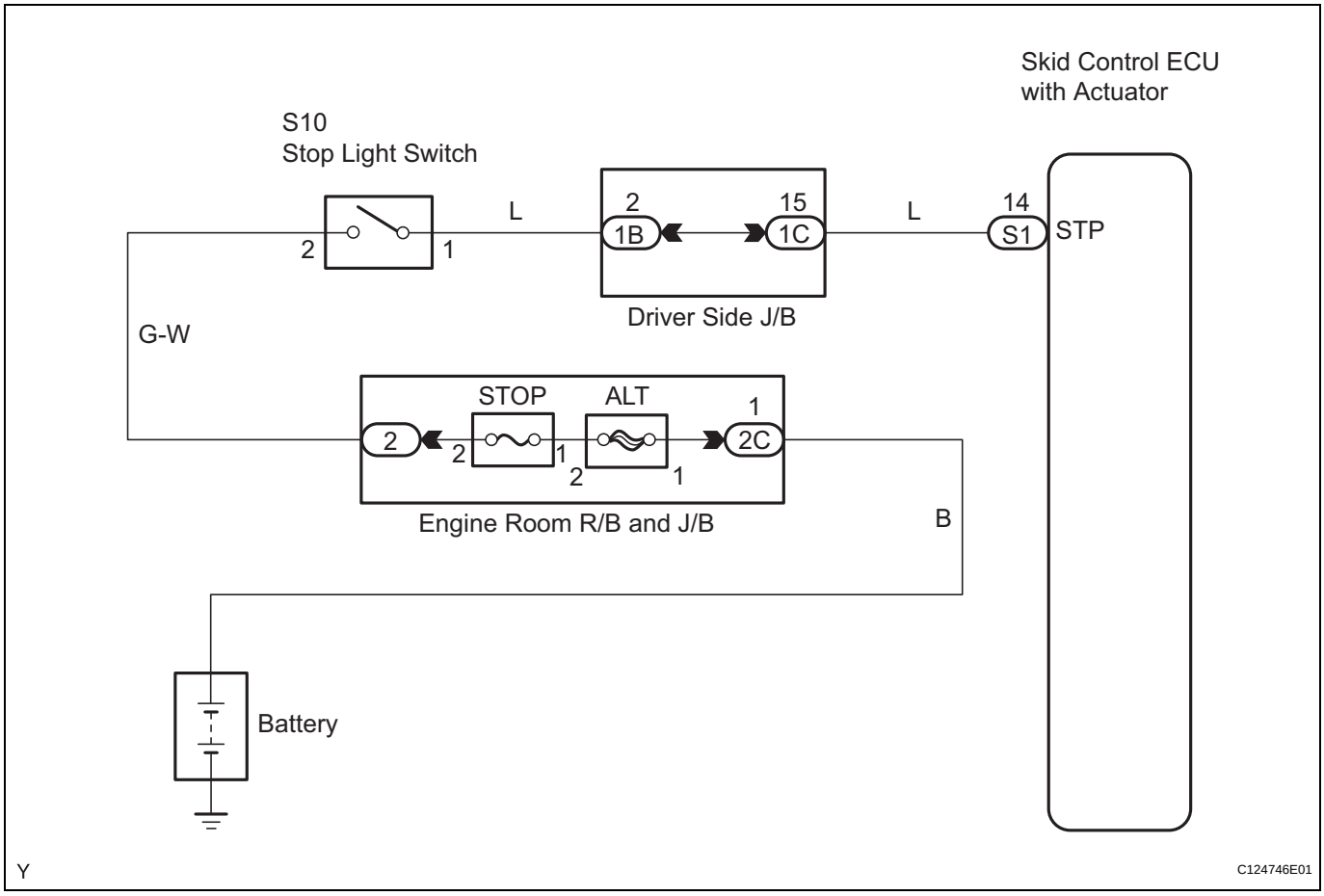
DTC	C1249/49	Open in Stop Light Switch Circuit

DESCRIPTION

The skid control ECU inputs the stop light switch signal and detects the status of the brake operation.

DTC No.	DTC Detecting Condition	Trouble Areas
C1249/49	ECU terminal IG1 voltage 9.5 V to 17.2 V and open in stop light switch circuit for 0.3 seconds or more.	• Stop light assembly • Stop light switch circuit

WIRING DIAGRAM



BC

1	CHECK STOP LIGHT SWITCH OPERATION

(a) Check that the stop lights come on when the brake pedal is depressed and go off when the brake pedal is released.

OK

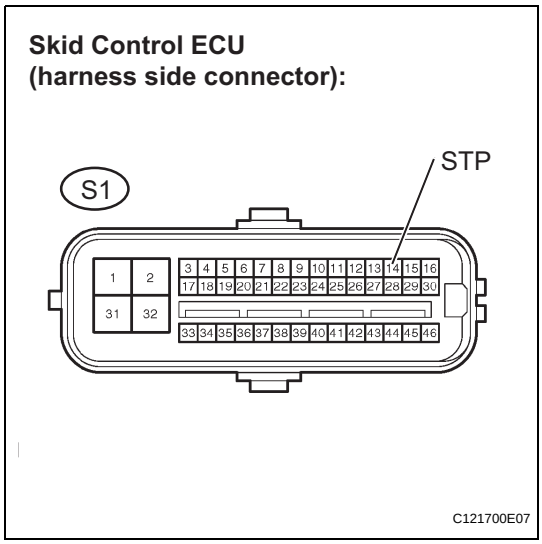
Pedal Condition	Illumination condition
Brake pedal depressed	ON
Brake pedal released	OFF

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

NG → Go to step 4

OK

2 INSPECT SKID CONTROL ECU TERMINAL VOLTAGE (STP TERMINAL)



(a) Disconnect the skid control ECU connector.
(b) Measure the voltage.

Standard Voltage

Tester Connection	Switch Condition	Specified Condition
S1-14 (STP) - Body ground	Brake pedal depressed	8 to 16 V
S1-14 (STP) - Body ground	Brake pedal pressed	Below 1.5 V

(c) Reconnect the skid control ECU connector.

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

3 RECONFIRM DTC

(a) Clear the DTCs (See page BC-16).
(b) Check if the same DTCs are detected.

Result	Proceed to
DTC output	A
DTC not output	B

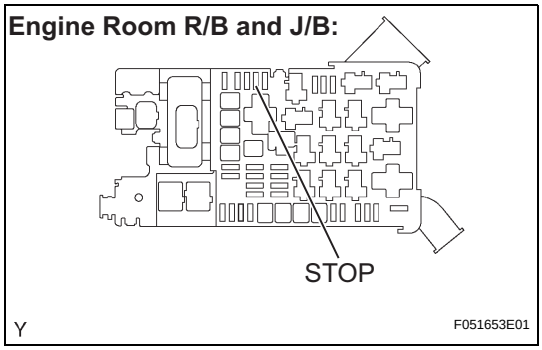
NG → END

A

REPLACE BRAKE ACTUATOR

BC

4	INSPECT FUSE (STOP)

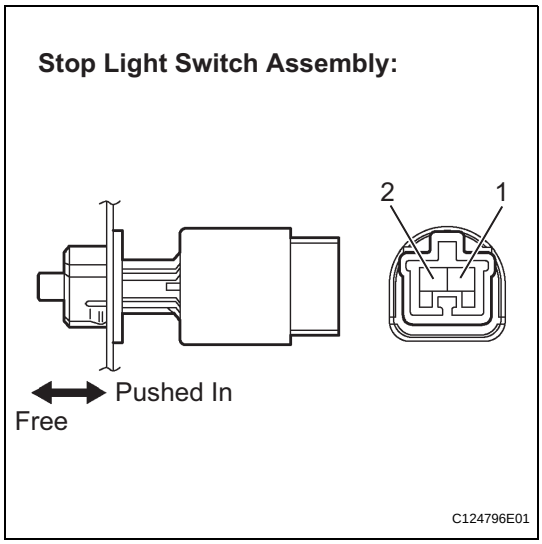


(a) Remove the STOP fuse from the engine room R/B and J/B.
(b) Measure the resistance of the STOP fuse.
Standard Resistance:
Below 1 Ω
(c) Reinstall the STOP fuse.

NG → **CHECK FOR SHORTS IN ALL HARNESSES AND CONNECTORS CONNECTED TO FUSE AND REPLACE FUSE**

OK

5	INSPECT STOP LIGHT SWITCH ASSEMBLY



(a) Disconnect the stop light switch connector.
(b) Measure the resistance.
Standard Resistance

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

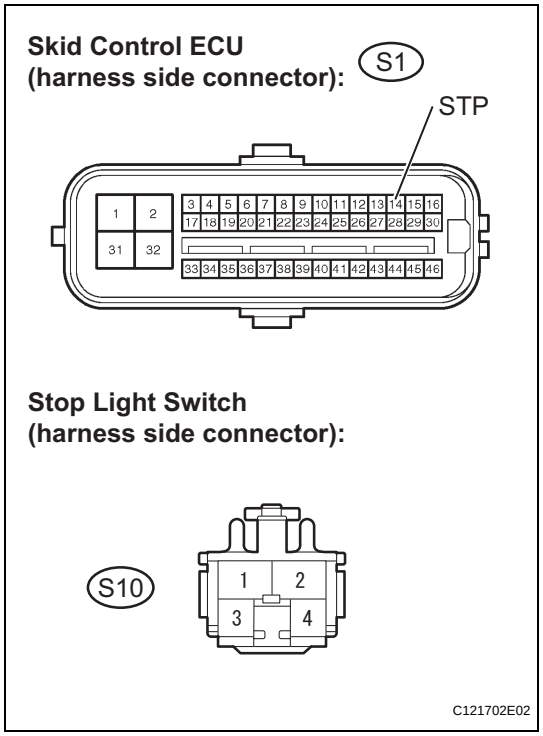
(c) Reconnect the stop light switch connector.

NG → **REPLACE STOP LIGHT SWITCH ASSEMBLY**

OK

BC

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



(a) Disconnect the skid control ECU connector.
(b) Disconnect the stop light switch connector.
(c) Measure the resistance.

Standard Resistance

Tester Connection	Specified Condition
S1-14 (STP) - S10-1 (STP)	Below 1 Ω

(d) Reconnect the stop light switch connector.
(e) Reconnect the skid control ECU connector.

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

OK

7 RECONFIRM DTC

BC

(a) Clear the DTCs (See page BC-16).
(b) Check if the same DTCs are detected.

Result	Proceed to
DTC output	A
DTC not output	B

NG → **END**

A

REPLACE BRAKE ACTUATOR