

<b>DTC</b>	<b>C1249/49</b>	<b>Open in Stop Light Switch Circuit</b>
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**DESCRIPTION**

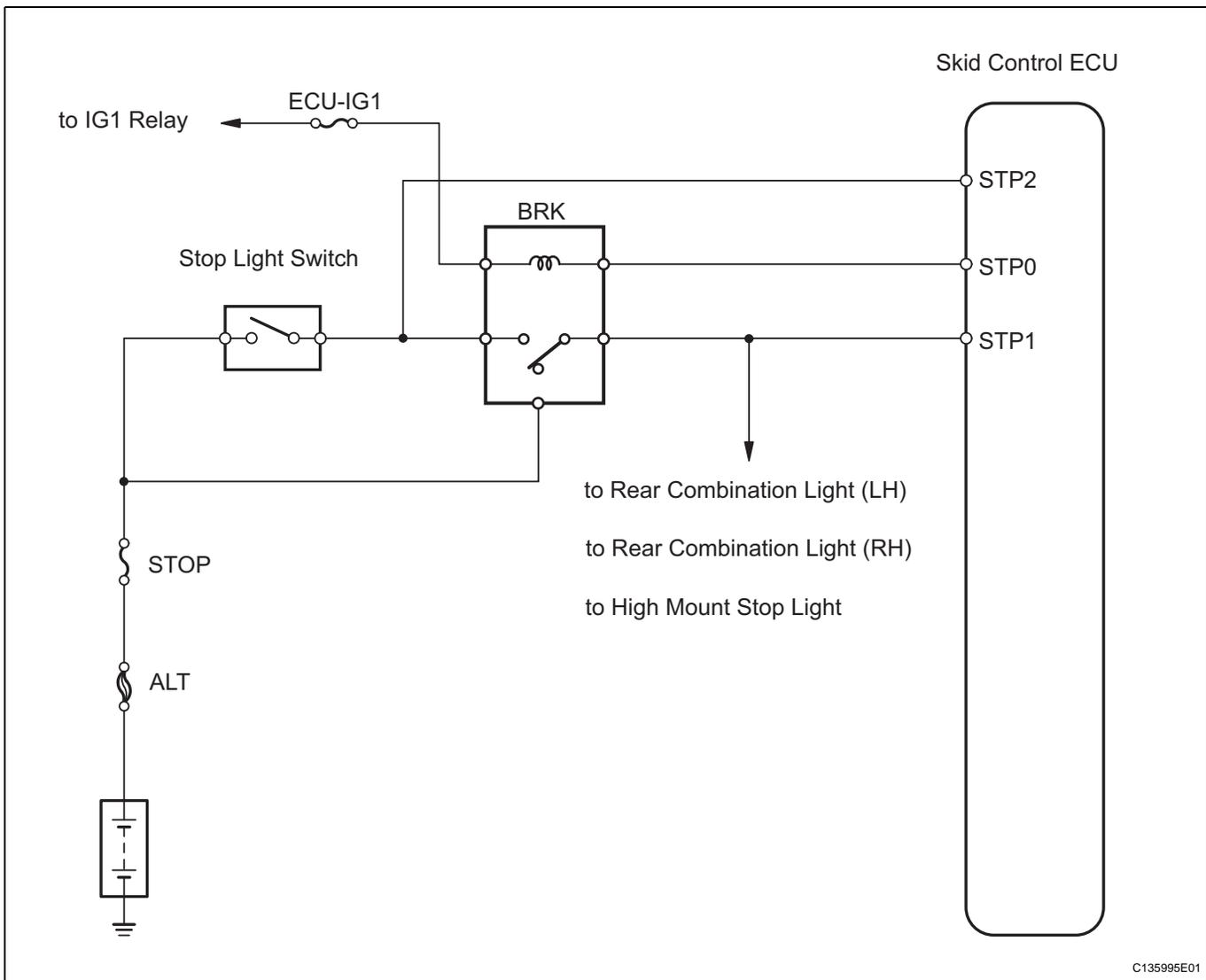
The skid control ECU detects the brake operating conditions through a signal transmitted by the stop light switch. The skid control ECU incorporates an open circuit detection circuit. This DTC is set under either of the following conditions:

- An open is detected in the stop light signal input line when the stop light switch is off.
- An open is detected in the stop light circuit lead to the ground when the stop light switch is off.

DTC No.	DTC Detection Condition	Trouble Area
C1249/49	When either condition below is met: 1. When IG1 terminal voltage 9.5 to 17.2 V, open circuit of stop light switch continues for 0.3 seconds or more. 2. w/ 16-inch disc: With brake pedal load sensing switch ON, master pressure 2 MPa or more, vehicle deceleration 0.2 G or more (calculated based on vehicle speed), stop switch OFF condition continues for 2 seconds or more.	<ul style="list-style-type: none"> <li>• ECU-IG1 fuse</li> <li>• STOP fuse</li> <li>• BRK relay</li> <li>• Stop light switch</li> <li>• Stop light switch circuit</li> <li>• ABS and TRACTION actuator</li> </ul>

**WIRING DIAGRAM**

BC



**INSPECTION PROCEDURE**

**1 READ VALUE OF INTELLIGENT TESTER (STOP LIGHT SWITCH)**

- (a) Check the DATA LIST for proper functioning of the stop light switch.

**Skid control ECU**

Item (Display)	Measurement Item / Range (Display)	Normal Conditions	Diagnostic Note
STOP LAMP SW	Stop light switch / ON or OFF	ON: Brake pedal depressed OFF: Brake pedal released	-

**OK:**

**ON (brake pedal is depressed) appears on the screen.**

**NG** → **Go to step 3**

**OK**

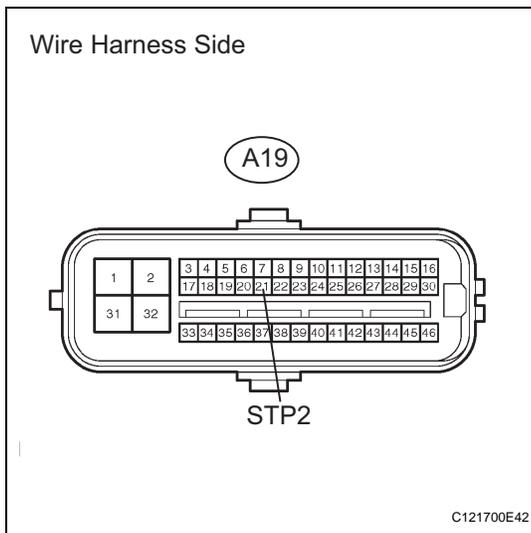
**2 CHECK WIRE HARNESS (STP VOLTAGE)**

**BC**

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

**Standard voltage**

Tester Connection	Switch Condition	Specified Condition
A19-21 (STP2) - Body ground	Brake pedal depressed	8 to 14 V
A19-21 (STP2) - Body ground	Brake pedal released	Below 4.0 V



**NG** → **Go to step 6**

**OK**

**REPLACE ABS AND TRACTION ACTUATOR ASSEMBLY**

**3 INSPECT FUSE (STOP, ECU-IG1)**

- (a) Remove the STOP fuse and ECU-IG1 fuse from the instrument panel junction block.
- (b) Measure the resistance of the fuse.

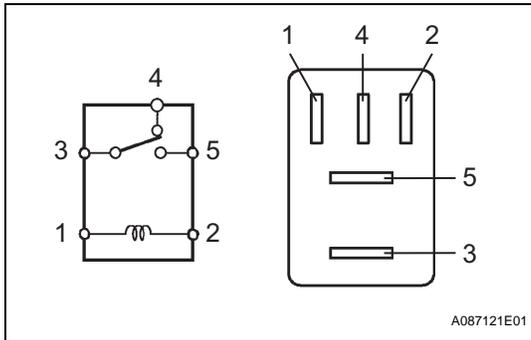
**Standard resistance:**

**Below 1 Ω**

**NG** → **REPLACE FUSE**

OK

**4 INSPECT STOP LIGHT CONTROL RELAY (Marking: BRK)**



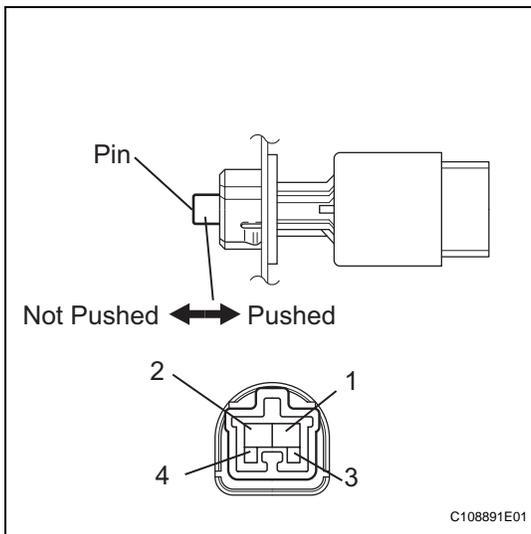
- (a) Remove the stop light control relay from the engine room No. 1 relay block.
- (b) Measure the resistance of the relay.

Tester Connection	Specified Condition
3 - 4	Below 1 Ω
3 - 5	10 kΩ or higher
3 - 4	10 kΩ or higher (when battery voltage is applied to terminals 1 and 2)
3 - 5	Below 1 Ω (when battery voltage is applied to terminals 1 and 2)

NG → REPLACE STOP LIGHT CONTROL RELAY

BC OK

**5 INSPECT STOP LIGHT SWITCH ASSEMBLY**



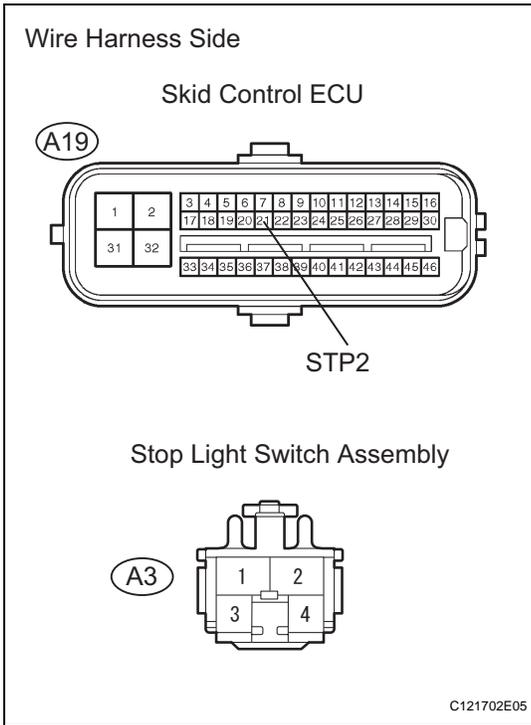
- (a) Disconnect the stop light switch connector.
  - (b) Measure the resistance of the switch.
- Standard resistance**

Tester Connection	Switch Condition	Specified Condition
1 - 2	Pin not pushed	Below 1 Ω
1 - 2	Pin pushed	10 kΩ or higher
3 - 4	Pin not pushed	10 kΩ or higher
3 - 4	Pin pushed	Below 1 Ω

NG → REPLACE STOP LIGHT SWITCH ASSEMBLY

OK

**6 CHECK WIRE HARNESS (SKID CONTROL ECU - STOP LIGHT SWITCH)**



- (a) Disconnect the A19 ECU connector.
- (b) Disconnect the A3 switch connector.
- (c) Measure the resistance of the wire harness side connectors.

**Standard resistance**

Tester Connection	Specified Condition
A19-21 (STP2) - A3-1	Below 1 Ω

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

**OK**

**7 RECONFIRM DTC**

- (a) Clear the DTC (see page BC-47).
- (b) Check if the same DTC is output (see page BC-47).

**Result**

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

**B** → **END**

**A**

**REPLACE ABS AND TRACTION ACTUATOR ASSEMBLY**