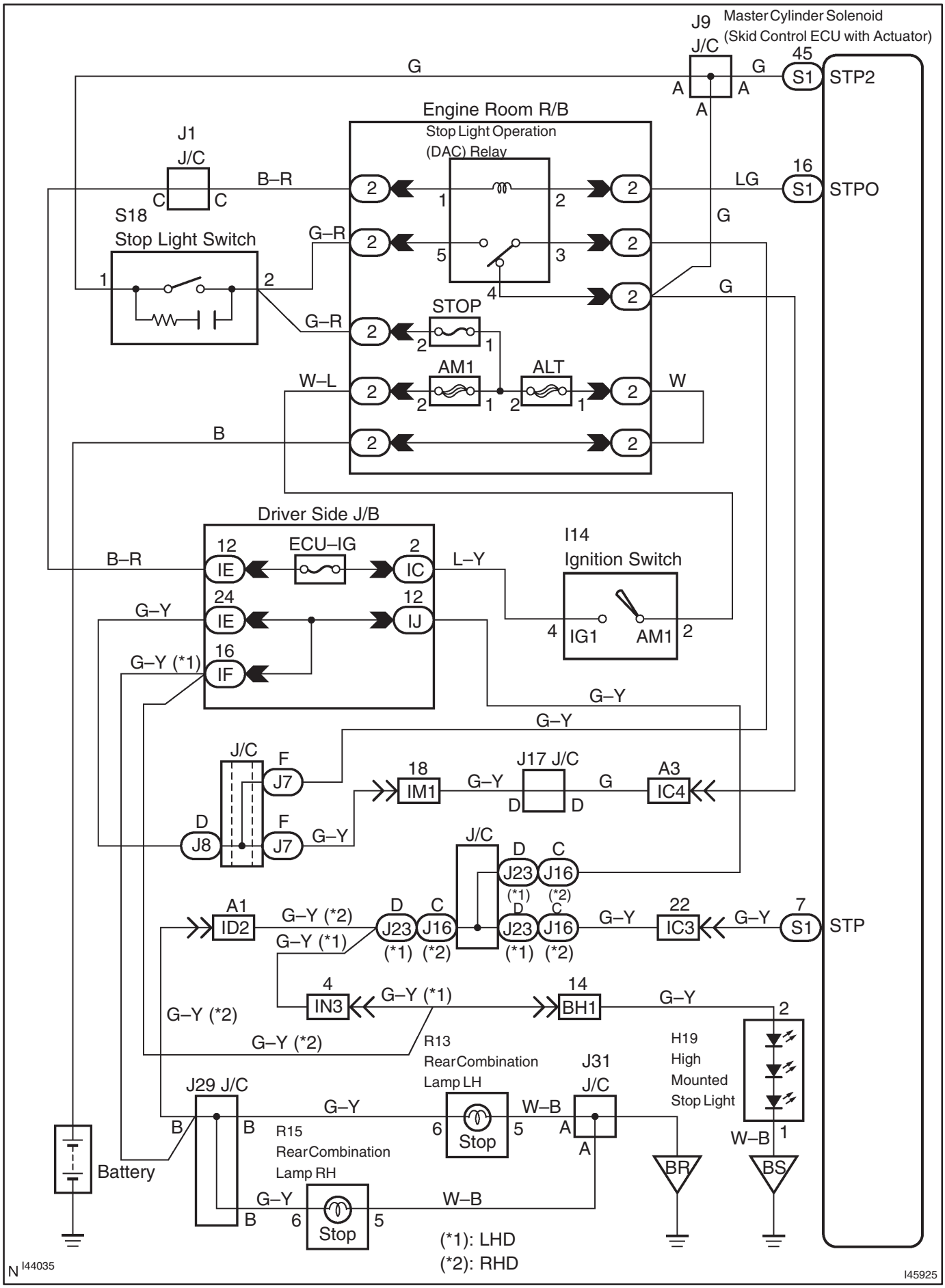
DTC	C1249/49	OPEN CIRCUIT IN STOP LIGHT SWITCH CIRCUIT

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	ECU terminal IG1 voltage is 9.5 to 17.0 V, ABS is in non–operation, and an open in stop light switch circuit continues for 0.3 seconds or more.	• Stop light switch • Stop light switch circuit • Rear combination lamp (stop light) assy

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

When replacing the master cylinder solenoid, perform zero point calibration (see page 05–744).

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:

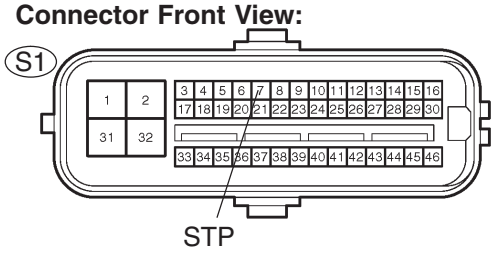
Stop light switch function is normal.

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:

Tester Connection	Condition	Specified Condition
S1–7 (STP) – Body ground	Stop light switch ON (Brake pedal depressed)	8 to 14 V
S1–7 (STP) – Body ground	Stop light switch OFF (Brake pedal released)	Below 1.5 V

Result:

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 (SEE PAGE 05–759)**

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

A

3 RECONFIRM DTC

(a) Clear the DTC (see page 05–766).
(b) Check if the same DTC is detected (see page 05–766).

HINT:
Reinstall the sensors, connectors, etc. and restore the previous vehicle conditions before rechecking for DTCs.

Result:

DTC is output	A
DTC is not output	B

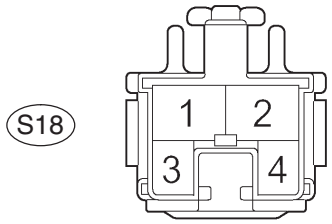
B → END

A

REPLACE MASTER CYLINDER SOLENOID (SEE PAGE 32–12)

4 INSPECT STOP LIGHT SWITCH ASSY (POWER SOURCE TERMINAL VOLTAGE)

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



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

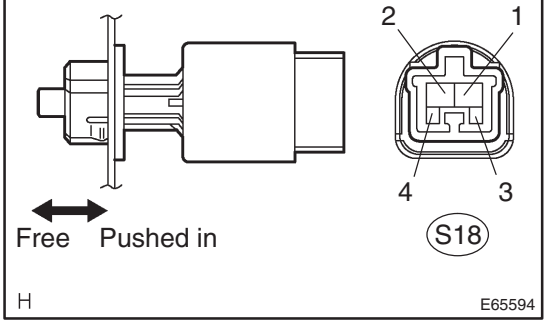
Standard:

Tester Connection	Condition	Specified Condition
S18–2 – Body ground	Always	10 to 14 V

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

OK

5 INSPECT STOP LIGHT SWITCH ASSY



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

Standard:

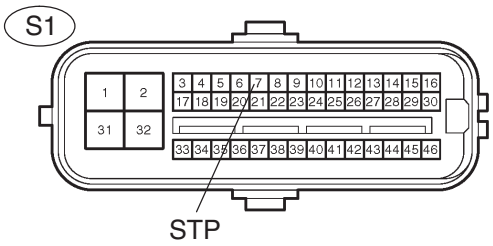
Tester Connection	Condition	Specified Condition
S18–1 – S18–2	Switch pin free	Below 1 Ω
S18–1 – S18–2	Switch pin pushed in	10 kΩ or higher

NG → REPLACE STOP LIGHT SWITCH ASSY

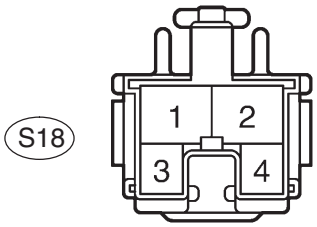
OK

6	CHECK HARNESS AND CONNECTOR (BETWEEN SKID CONTROL ECU AND STOP LIGHT SWITCH) (SEE PAGE 01–26)

Skid Control ECU (Wire Harness Side) Connector Front View:



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



F49362
C82562

F49379

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

Standard:

Tester Connection	Specified Condition
S1–7 (STP) – S18–1	Below 1 Ω
S1–7 (STP) – Body ground	10 kΩ or higher

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

OK

REPLACE MASTER CYLINDER SOLENOID (SEE PAGE 32–12)

HINT:

- When troubleshooting in accordance with the DTC CHART, check DTCs before replacing the master cylinder solenoid (see page 05–766).
- When troubleshooting in accordance with the PROBLEM SYMPTOMS TABLE, be sure to follow the table before replacing the master cylinder solenoid (see page 05–759).