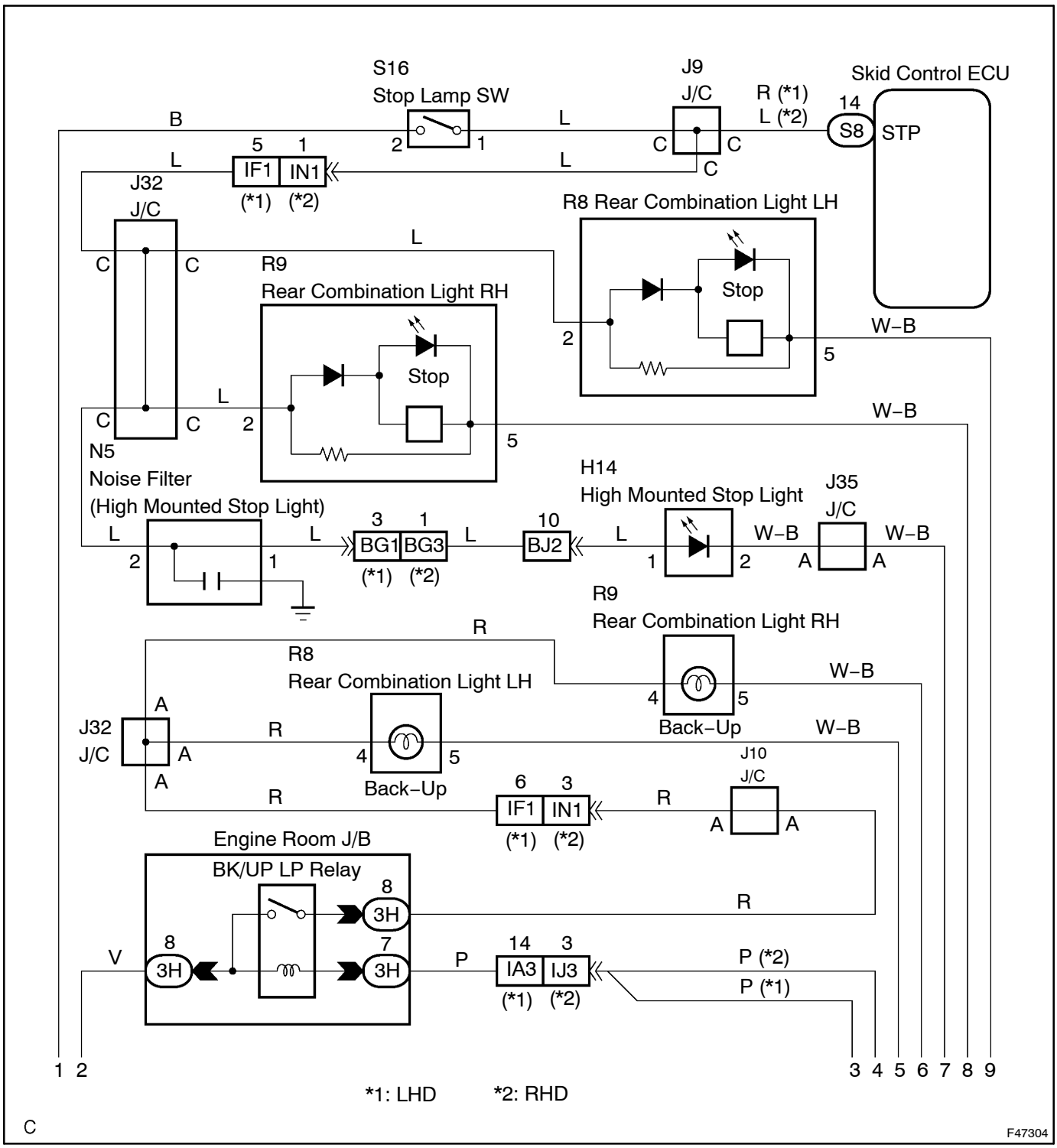
DTC	C1249/49	OPEN CIRCUIT IN STOP LIGHT SWITCH CIRCUIT

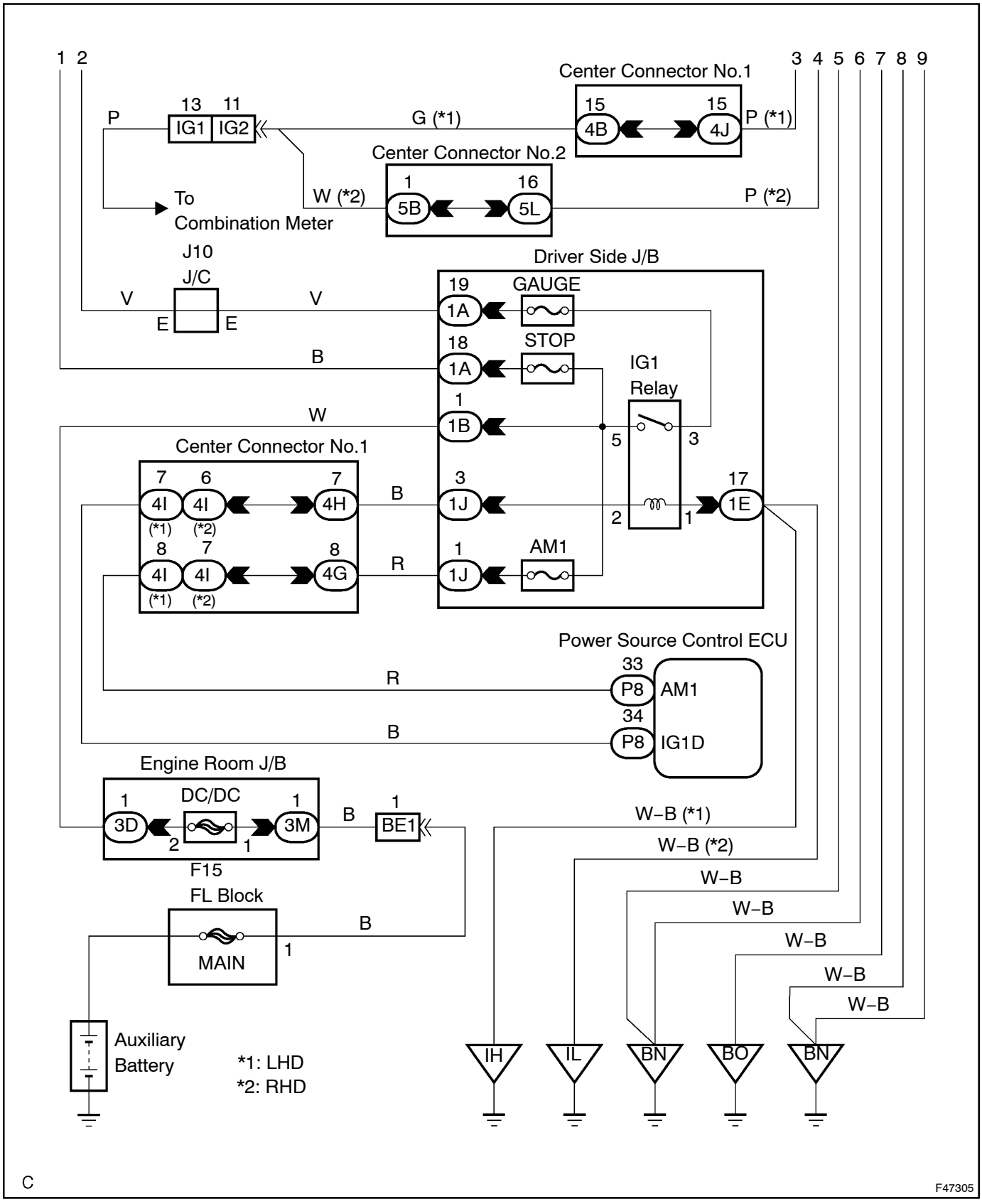
CIRCUIT DESCRIPTION

The skid control ECU inputs the stop lamp switch signal and detects braking condition.
The skid control ECU has a circuit for open detection inside. The skid control ECU outputs the DTC if it detects an open in the stop lamp signal input line when the stop lamp switch is off or an open in the stop lamp circuit (GND side).

DTC No.	Detailed Code	DTC Detected Condition	Trouble Area
C1249/49	520	Stop lamp switch circuit is open for at least 10 sec. when IG1 terminal voltage is between 9.5 V and 17.02 V.	• Stop lamp switch • Stop lamp switch circuit • Stop lamp bulb

WIRING DIAGRAM




1 2
3 4 5 6 7 8 9
Center Connector No.1
13 11
P
IG1 IG2
G (*1)
15 15
4B 4J
P (*1)
Center Connector No.2
1 16
5B 5L
W (*2)
P (*2)
To
Combination Meter
J10
J/C
V
E
E
V
Driver Side J/B
19
GAUGE
1A
18
STOP
1A
B
IG1
Relay
1
1B
W
5
3
Center Connector No.1
7 6 7
4I 4I 4H
(*1) (*2)
B
3
1J
17
1E
2
1
8 7 8
4I 4I 4G
(*1) (*2)
R
1
AM1
1J
Power Source Control ECU
33
P8
AM1
R
34
P8
IG1D
B
Engine Room J/B
1
DC/DC
1
3D
3M
2
1
B
1
BE1
W–B (*1)
W–B (*2)
W–B
W–B
W–B
W–B
W–B
F15
FL Block
B
MAIN
1
Auxiliary
Battery
*1: LHD
*2: RHD
IH
IL
BN
BO
BN
C
F47305

INSPECTION PROCEDURE

1 CHECK STOP LAMP SWITCH OPERATION

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

OK:

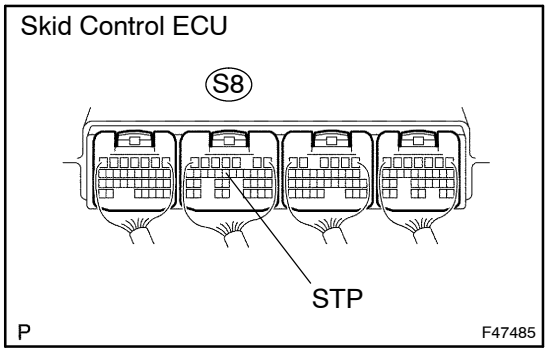
Pedal Condition	Illumination Condition
Brake pedal depressed	ON
Brake pedal released	OFF

NG → **Go to step 4**

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

OK

2 INSPECT SKID CONTROL ECU TERMINAL VOLTAGE



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

HINT:
Measure the voltage from behind the connector with the connector connected to the skid control ECU.

Standard:

Tester Connection	Switch Condition	Specified Condition
S8–14 (STP) – Body ground	Brake pedal depressed	8 to 14 V
S8–14 (STP) – Body ground	Brake pedal released	Below 1 V

NG → **Go to step 4**

OK

3 RECONFIRM DTC

(a) Clear the DTCs (see page 05–738).
(b) Turn the power switch ON (READY).
(c) Check the same DTCs recorded (see page 05–738).

Result:

DTC is not output	A
DTC is output	B

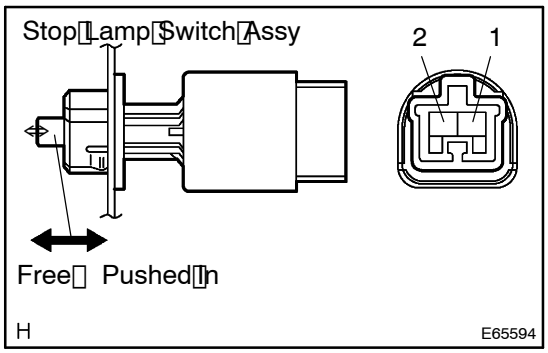
B → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–729)**

A

REPLACE SKID CONTROL ECU ASSY (SEE PAGE 32–81 or 32–82)

NOTICE:
When replacing the skid control ECU assy, perform initialization of linear solenoid valve and calibration (see page 05–721).

4 INSPECT STOP LAMP SWITCH ASSY



(a) Disconnect the stop lamp switch assy connector.
(b) Measure the resistance according to the value(s) in the table below.

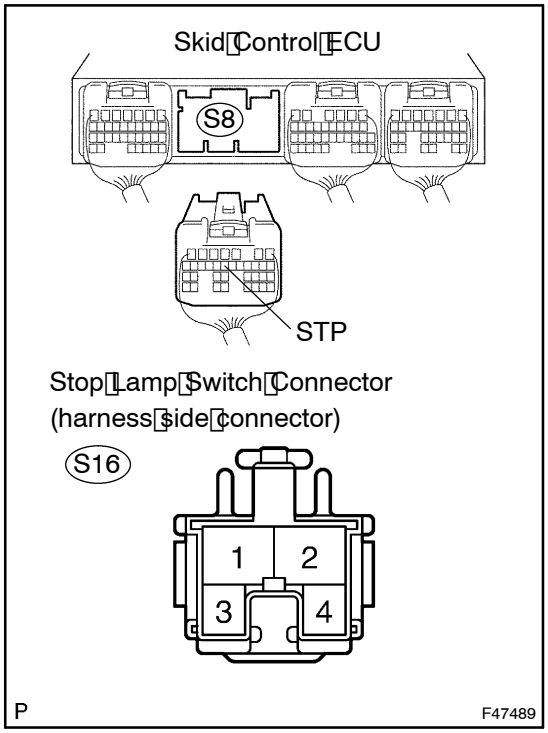
Standard:

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

NG → **REPLACE STOP LAMP SWITCH ASSY**

OK

5	CHECK HARNESS AND CONNECTOR(STOP LAMP SWITCH – SKID CONTROL ECU)



(a) Disconnect the stop lamp switch connector and skid control ECU connector.

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

Standard:

Tester Connection	Specified Condition
S8–14 (STP) – S16–1	Below 1 Ω

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

OK

REPLACE SKID CONTROL ECU ASSY (SEE PAGE 32–81 or 32–82)

NOTICE:

When replacing the skid control ECU assy, perform initialization of linear solenoid valve and calibration (see page 05–721).