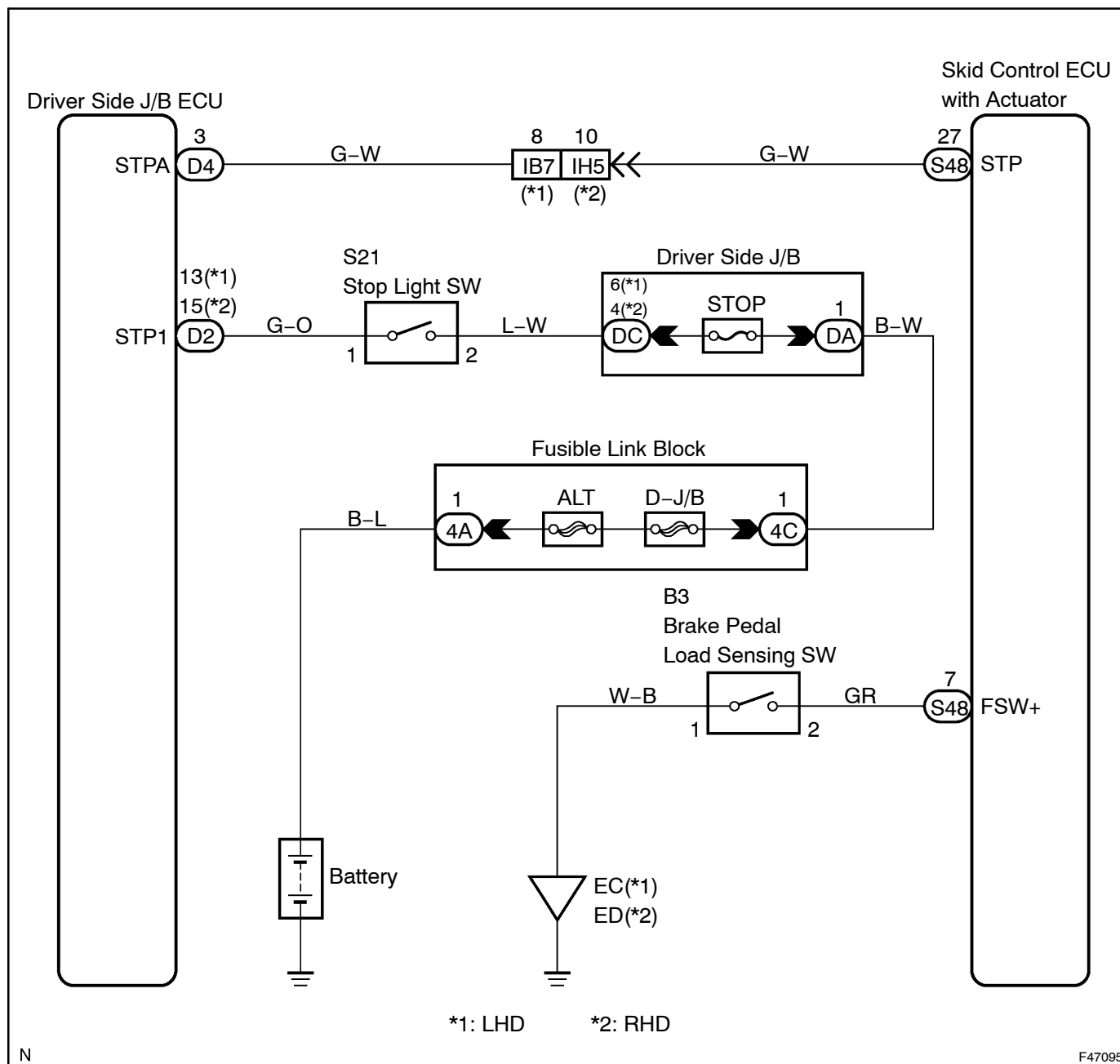


DTC	C1249/49	OPEN CIRCUIT IN STOP LIGHT SWITCH CIRCUIT
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CIRCUIT DESCRIPTION

Recognition of brake operation by sending stop lamp signal to skid control ECU.

DTC No.	DTC Detecting Condition	Trouble Area
C1249/49	• When IG1 terminal voltage is 9.5 to 17.2 V, an open circuit of the stop lamp switch continues for 0.3 sec. or more. • When the brake pedal load sensing switch is on, the master cylinder pressure is 2 Mpa or more and the deceleration calculated from the vehicle speed is 0.2 G or more, the stop lamp switch is off for 2 sec. or more.	• Stop lamp bulb • Stop lamp switch circuit



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 6

HINT:

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

OK

2 INSPECT MULTIPLEX COMMUNICATION SYSTEM (SEE PAGE 05-3331)

- (a) Is DTC output Multiplex communication system?

Result:

DTC is not output	A
DTC is output	B

B

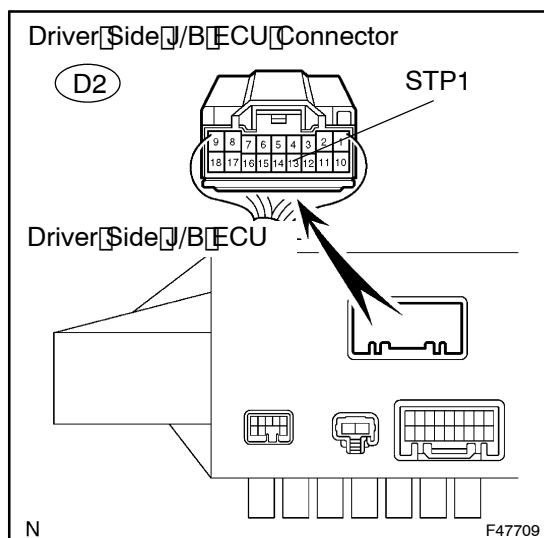
REPAIR
SYSTEM

MULTIPLEX

COMMUNICATION

A

3 CHECK HARNESS AND CONNECTOR (STP1 TERMINAL VOLTAGE OF DRIVER SIDE J/B ECU)

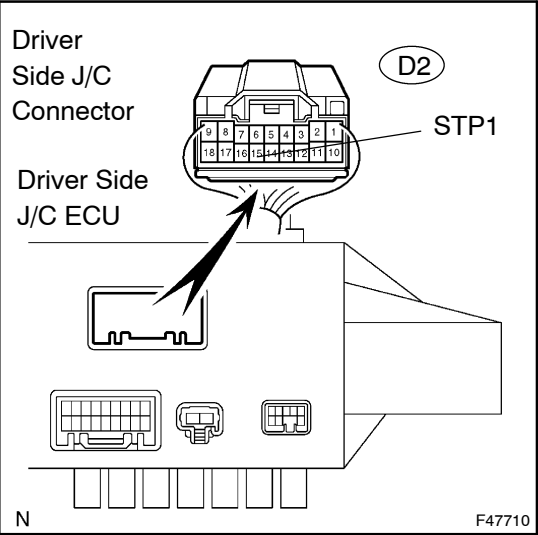


LHD:

- (a) Disconnect the driver side J/B ECU connector.
(b) Measure the voltage according to the value(s) in the table below.

Standard:

Tester Connection	Switch Condition	Specified Condition
D2-13 (STP1) - Body ground	Brake pedal depressed	8 to 14 V
D2-13 (STP1) - Body ground	Brake pedal released	Below 1 V



RHD:

- (c) Disconnect the driver side J/B ECU connector.
- (d) Measure the voltage according to the value(s) in the table below.

Standard:

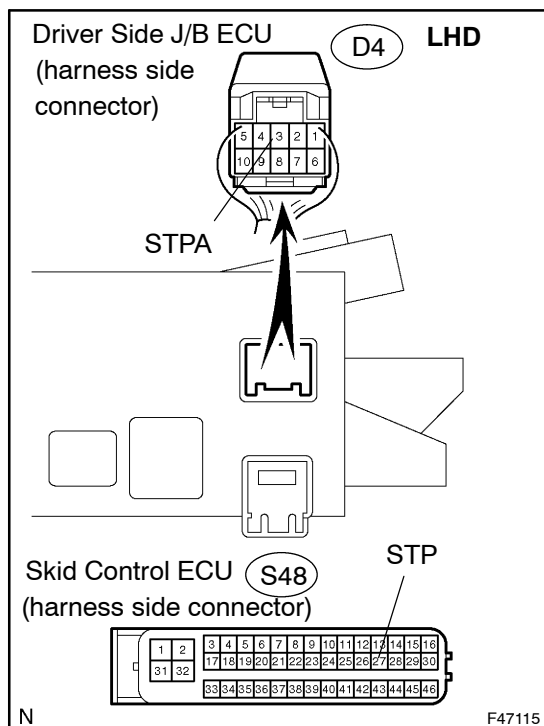
Tester Connection	Switch Condition	Specified Condition
D2-15 (STP1) - Body ground	Brake pedal depressed	8 to 14 V
D2-15 (STP1) - Body ground	Brake pedal released	Below 1 V

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

4 CHECK HARNESS AND CONNECTOR(STPA OF DRIVER SIDE J/B ECU - STP OF SKID CONTROL ECU)



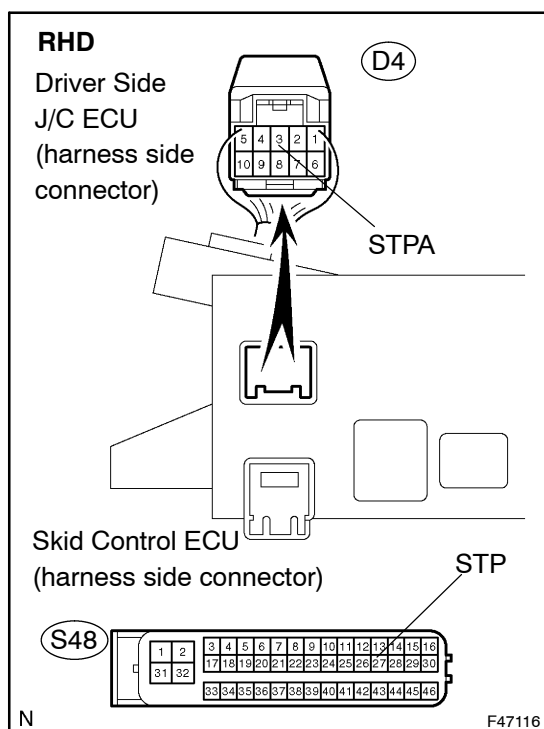
- Disconnect driver side J/B ECU connector and skid control ECU connector.
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
D4-3 (STPA) - S48-27 (STP)	Below 1 Ω

Standard:

Tester Connection	Specified Condition
S48-27 (STP) - Body ground	1 M Ω or higher



NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

5 RECONFIRM DTC

- (a) Clear the DTC (see page 05-400).
- (b) Turn the ignition switch to the ON position.
- (c) Check that the same DTC is recorded (see page 05-400).

OK:
The same DTC is recorded.

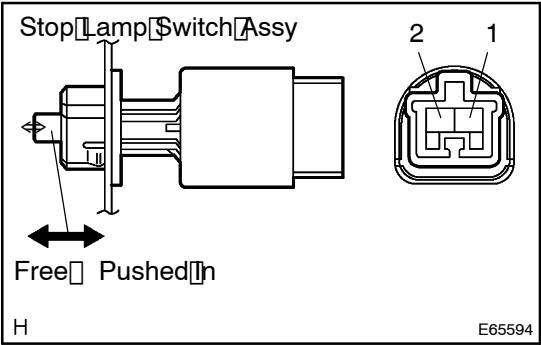
NG PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-395)

OK

REPLACE ABS & TRACTION ACTUATOR ASSY (SEE PAGE 32-53)

NOTICE:
When replacing the ABS & TRACTION actuator assy, perform zero point calibration (see page 05-387).

6 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:

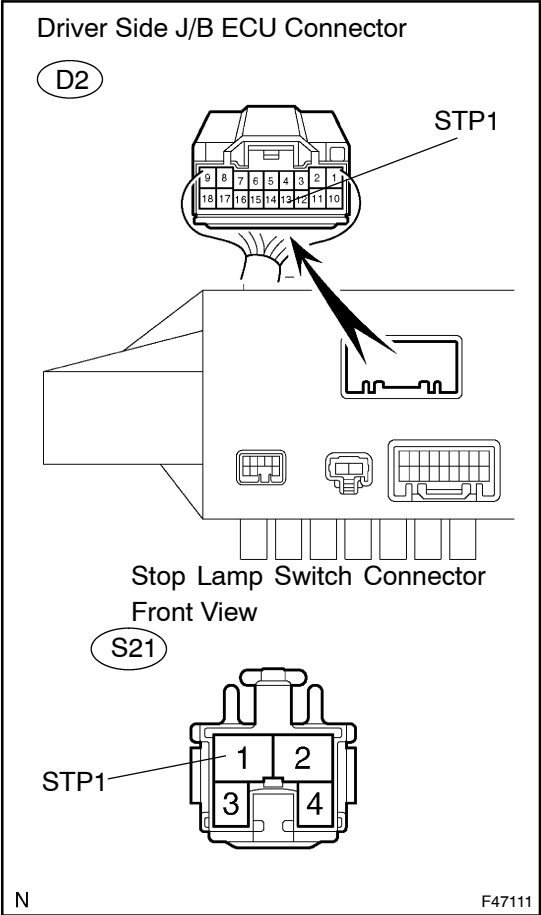
Switch Condition	Tester Connection	Specified Condition
Switch pin free	1 - 2	Below 1 Ω
Switch pin pushed in	1 - 2	1 MΩ or higher

NG REPLACE STOP LAMP SWITCH ASSY

OK

7

CHECK HARNESS AND CONNECTOR(STOP LAMP SWITCH – DRIVER SIDE J/B ECU)



LHD:

- (a) Disconnect the stop lamp switch connector and driver side J/B connector.
- (b) Measure the resistance according to the value(s) in the table below.

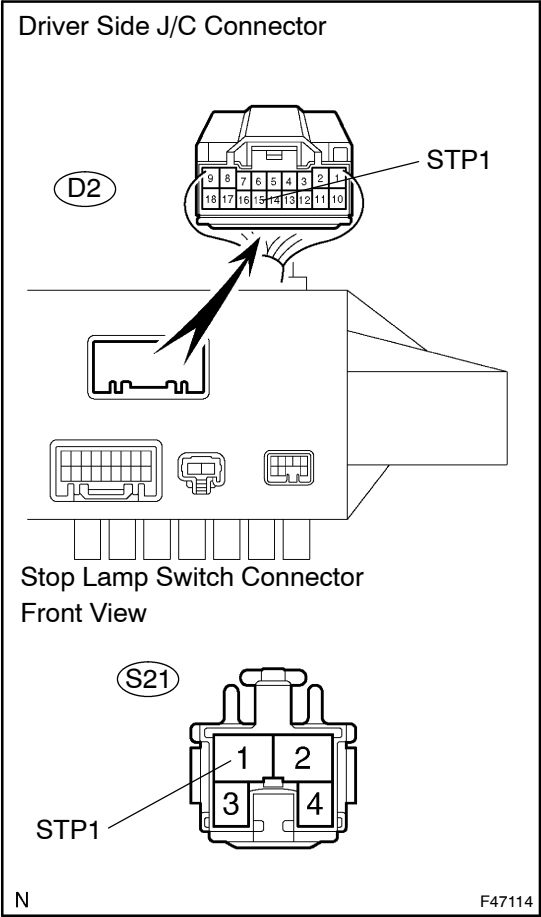
Standard:

Tester Connection	Specified Condition
(S21-1) – D2-13 (STP1)	Below 1 Ω

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

Standard:

Tester Connection	Specified Condition
(S21-1) – Body ground	1 MΩ or higher



RHD:

- (d) Disconnect the stop lamp switch connector and driver side J/B connector.
- (e) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
(S21-1) - D2-15 (STP1)	Below 1 Ω

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

Standard:

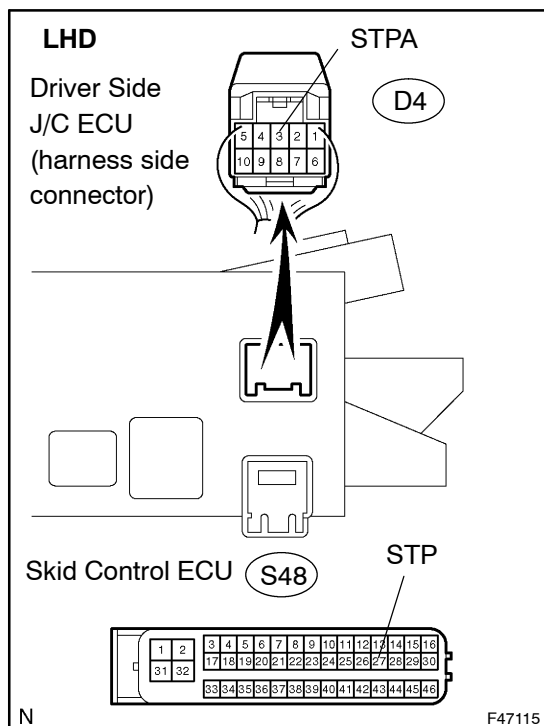
Tester Connection	Specified Condition
(S21-1) - Body ground	1 M Ω or higher

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

8 CHECK HARNESS AND CONNECTOR(STPA OF DRIVER SIDE J/B ECU - STP OF SKID CONTROL ECU)



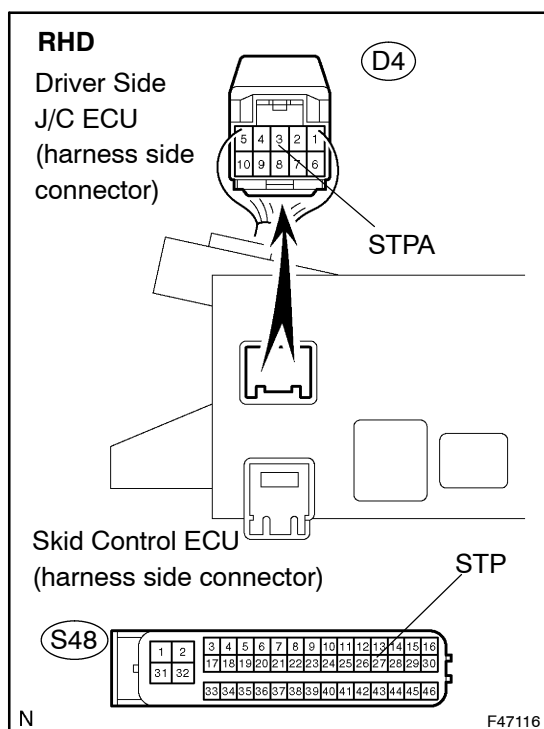
- Disconnect the driver side J/B connector and skid control ECU connector.
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
D4-3 (STPA) - S48-27 (STP)	Below 1 Ω

Standard:

Tester Connection	Specified Condition
S48-27 (STP) - Body ground	1 M Ω or higher



NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

9

RECONFIRM DTC

- (a) Clear the DTC (see page 05-400).
- (b) Turn the Ignition switch to the ON position.
- (c) Check that the same DTC is recorded (see page 05-400).

OK:

The same DTC is recorded.

NG

PROCEED TO NEXT CIRCUIT INSPECTION
SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-395)

OK

REPLACE ABS & TRACTION ACTUATOR ASSY (SEE PAGE 32-53)

NOTICE:
When replacing the ABS & TRACTION actuator assy, perform zero point calibration (see page 05-387).