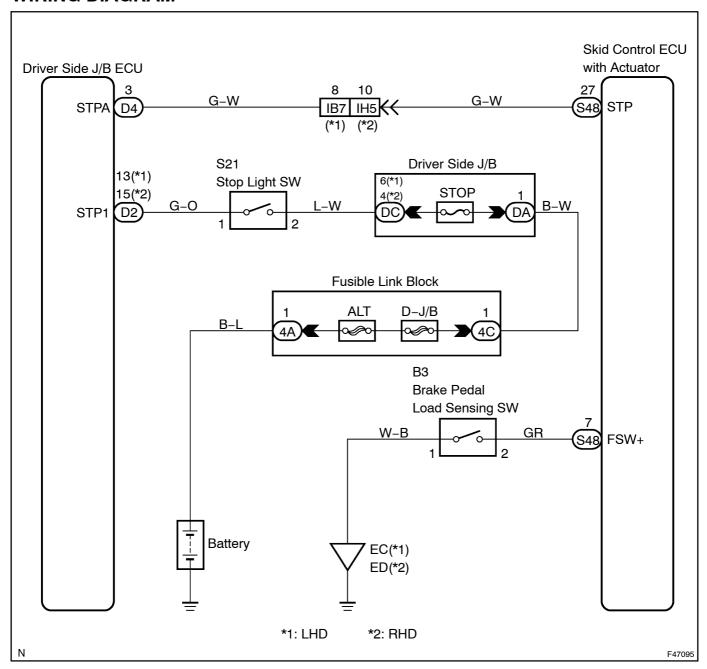
DTC	C1249/49	OPEN CIRCUIT IN STOP LIGHT SWITCH CIRCUIT
		CIRCUIT

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

WIRING DIAGRAM



INSPECTION PROCEDURE

1 | CHECK[\$TOP[LAMP[\$WITCH[OPERATION

(a) Check[]hat[]he[]stop[]ight[]comes[]on[]when[]he[]brake[]pedal[]s[]depressed[]and[]urns[]off[]when[]he[]brake pedal[]s[]depressed[]and[]urns[]off[]when[]he[]brake

OK:

Pedal Condition	Illumination Condition
Brake[pedal[depressed	ON
Brake pedal leleased	OFF

NG Go[to[step[6

HINT:

Check[]he[stop[]amp[bulb[as[]t[]may[]have[burnt[but.

OK

2 INSPECT[MULTIPLEX[COMMUNICATION[\$YSTEM[(SEE[PAGE[05-3331)

(a) Is DTC output Multiplex communication system?

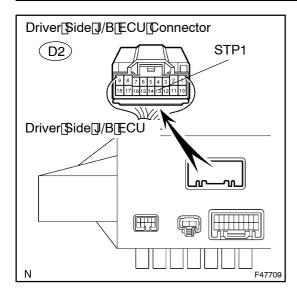
Result:

DTC is not output		A	_
DTC is output		В	
	PAIR STEM	MULTIPLEX	COMMUNICATION



3

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

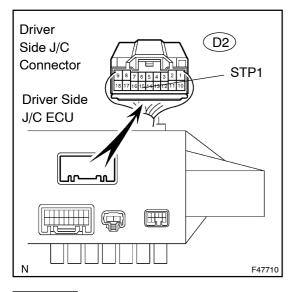


LHD:

- (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:

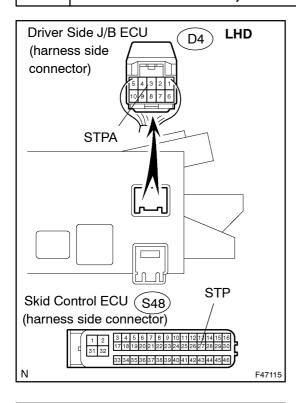
Tester Connection	Switch Condition	Specified Condition
D2-15 (STP1) - Body ground	Brake pedal depressed	8 to 14 V
D2-15 (STP1) - Body ground	Brake pedal released	Below 1 V

NG	REPAIR	OR	REPLACE	HARNESS	OR
/	CONNEC	TOR			



4

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



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

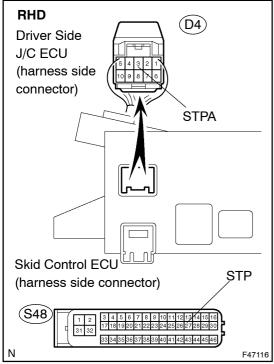
Standard:

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

Standard:

NG

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



REPAIR OR REPLACE HARNESS OR CONNECTOR

5 | RECONFIRM DTC

- (a) Clear[he[DTC[see]page[05-400].
- (b) Turn the ignition switch to the ON position.

OK:

The same DTC is recorded.



PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 5-395)

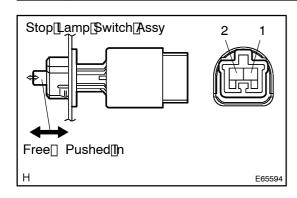
OK

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 M Ω or higher

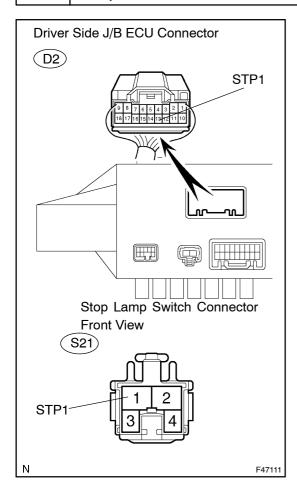
NG

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.

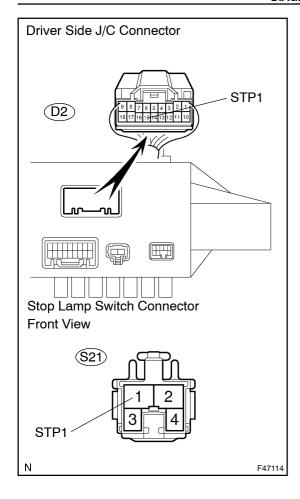
Standard:

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 M Ω 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.

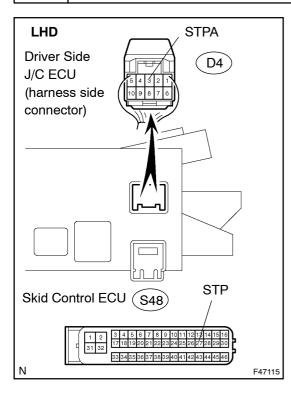
Standard:

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

NG REPAIR OR REPLACE HARNESS OR CONNECTOR



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



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

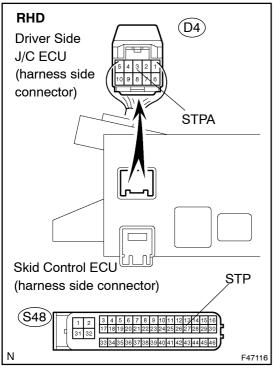
Standard:

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

Standard:

NG

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



REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

9 | RECONFIRMIDTC

- (a) Clear the DTC see page 05-400).
- (b) Turn the ignition witch to the ON position.

OK:

The same DTC is recorded.



PROCEED TO NEXT CIRCUIT INSPECTION SHOWN NPROBLEM 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).