DTC	P0571	STOP LIGHT SWITCH CIRCUIT MALFUNCTION
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CIRCUIT DESCRIPTION

When the brake pedal is depressed, the stop lamp switch assy sends a signal to the ECM. When the ECM receives this signal, it cancels the cruise control.

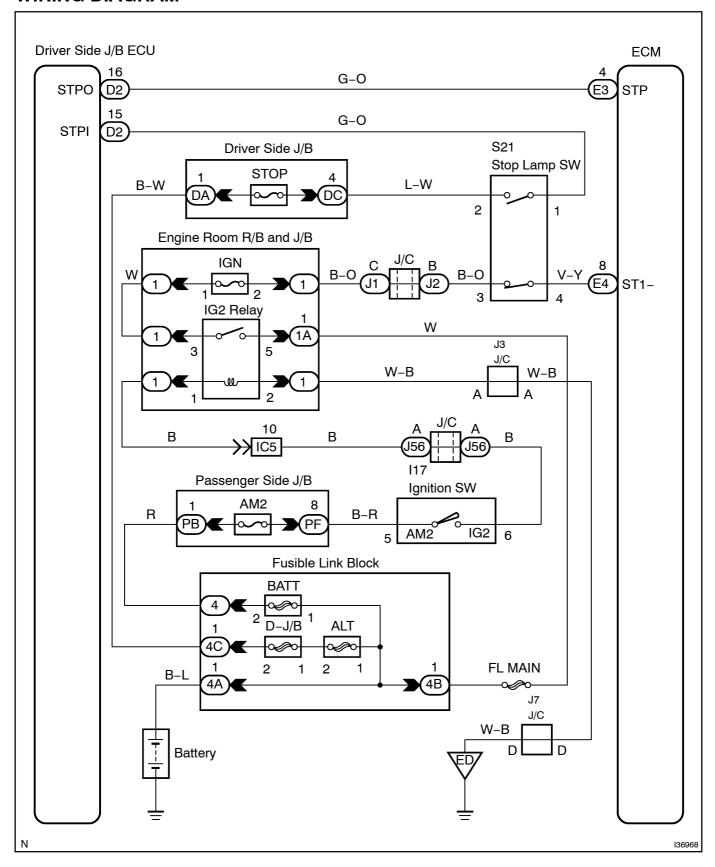
The fail–safe function operates to enable normal driving even if there is a malfunction in the stop lamp signal circuit.

The cancel condition occurs when positive battery voltage is applied to terminal STP.

When the brake is applied, battery positive voltage is normally applied to terminal STP of the ECM through the STOP fuse and the stop lamp switch assy, and the ECM turns the cruise control off.

DTC No.	DTC Detection Condition	Trouble Area
P0571	The malfunction code is output when the voltage of STP terminal and that of ST1_ terminal on the ECM are less than 1 V for	Stop lamp switch assy Stop lamp switch assy circuit Driver side J/B ECU ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

1 READ VALUE ON INTELLIGENT TESTER II

- (a) Connect the intelligent tester II to the DLC3.
- (b) Turn the ignition switch to the ON position, and turn the intelligent tester II main switch on.
- (c) Select the item "Stp Light SW M-CPU", "Stp Light SW S1-CPU" or "Stp Light SW S2-CPU" in the DATA LIST, and read its value displayed on the intelligent tester II.
- (d) Check that the stop lamp comes on when the brake pedal is depressed, and goes off when the brake pedal is released.

ECM:

ltem	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
Stp Light SW M-CPU	Stop lamp SW signal (Main CPU) / ON or OFF	ON : Brake pedal depressed OFF : Brake pedal released	-
Stp Light SW S1-CPU	Stop lamp SW signal (Sub CPU) / ON or OFF	ON : Brake pedal depressed OFF : Brake pedal released	-
Stp Light SW S2-CPU	Stop lamp SW signal (Sub CPU) / ON or OFF	ON : Brake pedal depressed OFF : Brake pedal released	-

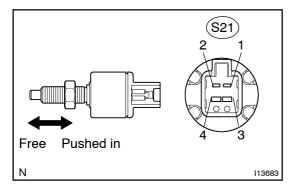
OK: When brake pedal operation is performed the standard values will be above.

NG Go to step 2



REPLACE[ECM[[SEE[PAGE]] 0-21)

2 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:

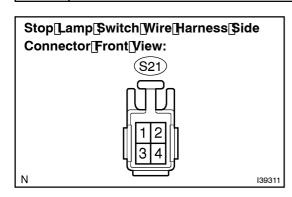
Switch condition	Tester connection	Specified value
Switch pin free	1 – 2	Below 1 Ω
Switch pin free	3 – 4	10 k Ω or higher
Switch pin pushed in	1 – 2	10 k Ω or higher
Switch pin pushed in	3 – 4	Below 1 Ω

NG)

REPLACE STOP LAMP SWITCH ASSY

ОК

3 | CHECK[HARNESS[AND]CONNECTOR[(STOP]LAMP[\$WITCH - [BATTERY)



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

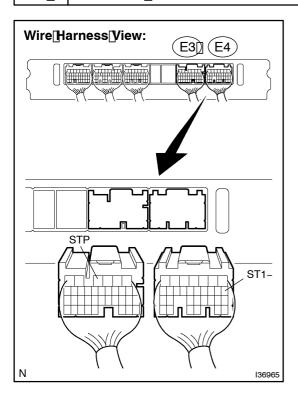
Standard:

Tester[connection	Condition	Specified@ondition
S21-2 -[Body[ground	Always	10[] o[] 4[] V
S21-3 -[Body[ground	Ignition[\$W[ON	10[] o[] 4[] V

NG REPAIR OR REPLACE HARNESS OR CONNECTOR



4 INSPECT ECM



- (a) Reconnect the stop tamp switch connector.
- (b) Disconnect he E3 and E4 connectors from he ECM.
- (c) Turn the ignition witch to the ON position.
- (d) Measure the voltage according to the value (s) in the table below.

Standard:

Pedal[condition	Tester@onnection	Specification
Depressed	E3-4[[STP) - Body[ground	10[] o[]14[] V
Released	E3-4[[STP) - Body[ground	Below[][V
Depressed	E4–8∏ST1–) – Body <u></u> ground	Below[] [V
Released	E4-8[[ST1-) - Body[ground	10[] [o[]]4[]V

Result:

ОК	A
NG[[STP[]erminal[]s[]NG)	В
NG[[ST1-[]erminals[]s[]NG)	С

B Go to step 5

С

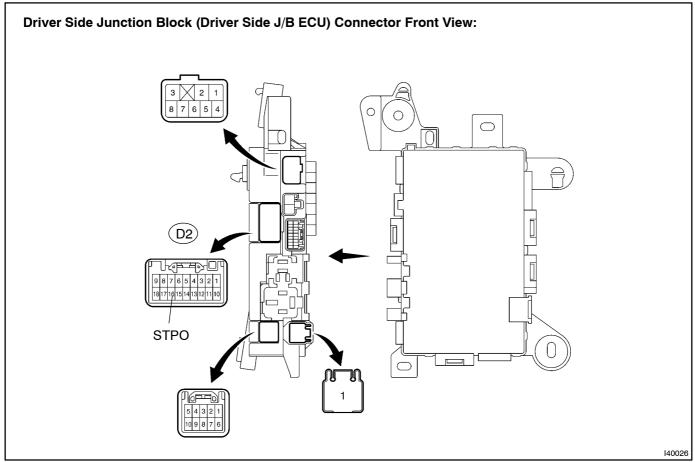
REPAIR OR REPLACE HARNESS OR CONNECTOR (STOP LAMP SWITCH - ECM)



REPLACE[ECM[[SEE[PAGE]]0-21)

5 INSPECT DRIVER SIDE J/B

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



Standard:

Pedal condition	Tester connection	Specification
Depressed	D2-16 (STPO) - Body ground	10 to 14 V
Released	D2-16 (STPO) - Body ground	Below 1 V

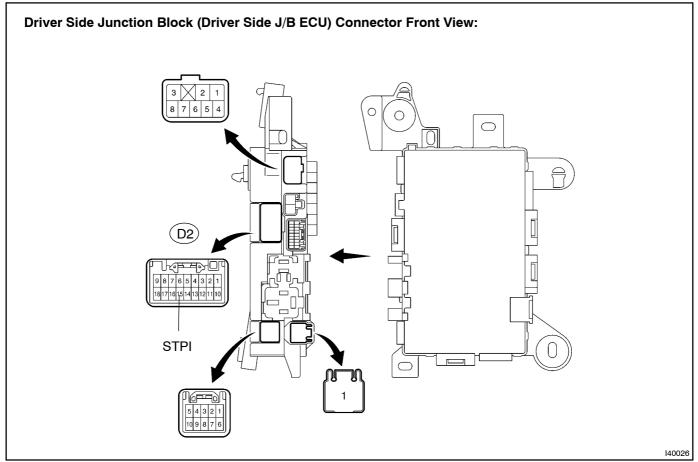
NG Go to step 6

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (DRIVER SIDE J/B ECU – ECM)

6 INSPECT DRIVER SIDE J/B

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



Standard:

Pedal condition	Tester connection	Specification
Depressed	D2-15 (STPI) - Body ground	10 to 14 V
Released	D2-15 (STPI) - Body ground	Below 1 V



REPAIR OR REPLACE HARNESS OR CONNECTOR (STOP LAMP SWITCH - DRIVER SIDE J/B ECU)

OK

REPLACE DRIVER SIDE J/B