DI3C<sub>4</sub>I=04

DTC	P1520/52	Stop light switch circuit
-----	----------	---------------------------

## CIRCUIT DESCRIPTION

When the brake pedal is depressed, the stop light switch sends a signal to the Engine and ECT ECU. When the Engine and ECT ECU receives this signal, it cancels the cruise control.

A fail-safe function is provided so that the cancel functions normally, even if there is a malfunction in the stop light signal circuit.

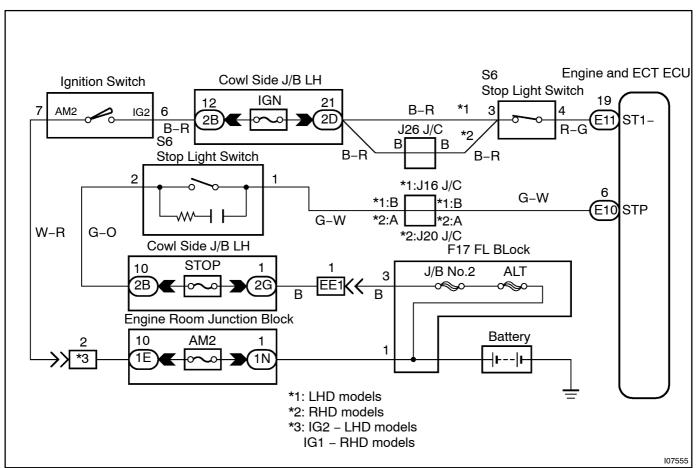
The cancel condition is that battery positive voltage is supplied to terminal STP.

When the brake is on, battery positive voltage is normally applied through the STOP fuse and stop light switch to terminal STP of the Engine and ECT ECU, and the Engine and ECT ECU turns the cruise control OFF.

If the harness connected to terminal STP has an open circuit, terminal STP will have battery positive voltage and the cruise control will be turned OFF.

DTC No.	Detection Item	Trouble Area
52		Stop light switch Harness or connector between Engine and ECT ECU and stop light switch circuit Engine and ECT ECU

## WIRING DIAGRAM



## INSPECTION PROCEDURE

#### HINT:

Incase of wind the Toyota mand-held tester, start the inspection from step of and incase of motivating the Toyota mand-held tester, start from step 2.

1[]

Check[stop[]ight[switch[]using[]TOYOTA[]hand-held[]tester.

## **PREPARATION:**

Connect[]the[]TOYOTA[]thand-held[]tester[]to[]the[]DLC3.

## **CHECK:**

Check the stop ight witch using DATALIST.

## OK:

Condition	Stop[]ight[switch[] [[Sub[CPU]	Stop[]ight[\$witch[2][Sub[CPU)	Stop@ght[switch[2[Main[CPU)
Depressed	ON	ON	ON
Released	OFF	OFF	OFF

### HINT:

- Stop[]ght[\$W] [hasatunction[]odisconnect[]heteonnection[]OFF)[whenteressing[]heteolal,[]however,[Enginetand[ECT[ECUthontrols[]by[]heteologic[]everse,[\$otwith[]heteoyoTA[]hand-held[]ester,[]tttlis-plays[]DN.
- Stop[]ight[\$W[] []ndicates[]the[]nput[]of[]\$T1-terminal[]and[]\$top[]ight[]\$W[]2[]ndicates[]the[]nput[]of[]\$TP terminal.



NG

2[]

Check operation of stop ight.

## CHECK:

Check[that[stop[tight[comes[on[when[brake[pedal[is[depressed,@and[durns[off[when[brake[pedal[is[deleased.

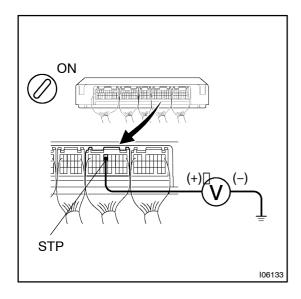
NG

Check[stop[]ight[system[[See[page[BE-58]].

OK

3∏

# Check[voltage[between[terminal[STP]of[Engine[and[ECT[ECU]connector[and body[ground.



#### PREPARATION:

- (a) Remove the Engine and ECT ECU with connectors still connected.
- (b) ☐ Turn ignition switch ON.

#### **CHECK:**

Measure[voltage[between[terminal[STP[bf[Engine[and[ECT ECU[connector[and[body[ground, when[the[brake[bedal[is]depressed[and[feleased.

## OK:

Depressed	10 –[] 4[V	
Released	Below[][V	

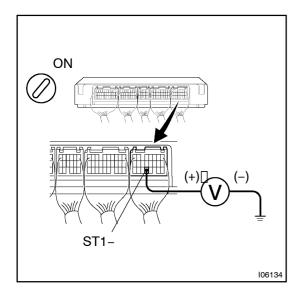


Proceed\_to\_next\_circuit\_inspection\_shown\_in problem\_symptom[table\_See\_page\_DI-730).

NG

4∏

Check[voltage[between[terminal[\$T1-[of[Engine[and[ECT[ECU[connector[and body[ground.



### **PREPARATION:**

- (a) Remove the Engine and ECT ECU with connectors still connected.
- (b) Turn ignition switch ON.

### **CHECK:**

Measure[voltage[between[terminal]ST1-[bf[Engine[and[ECT ECU[connector[and[body[ground, when[the[brake[bedal]schepressed[and[feleased.

### OK:

Depressed	Below[][V	
Released	10 -[] 4[J/	

ok□

Proceed\_to\_next\_circuit\_inspection\_shown\_in problem\_symptoms\_table\_see\_page\_DI-730).

NG

5 Checkwire[harnessand@connector[between]terminal[\$TP[of]Engine[and]ECT ECU[and]stop[ight]switch,[and]terminal[\$T1-[of]Engine[and]ECT[ECU[and]stop light]switch[See[page]N-35).

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Repair or replace harness or connector.

OK

Check@nd@eplaceEngine@ndECTECU(See page\_N-35).