DI26Z-03

DTC	P1520/52	Stop light switch circuit
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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.

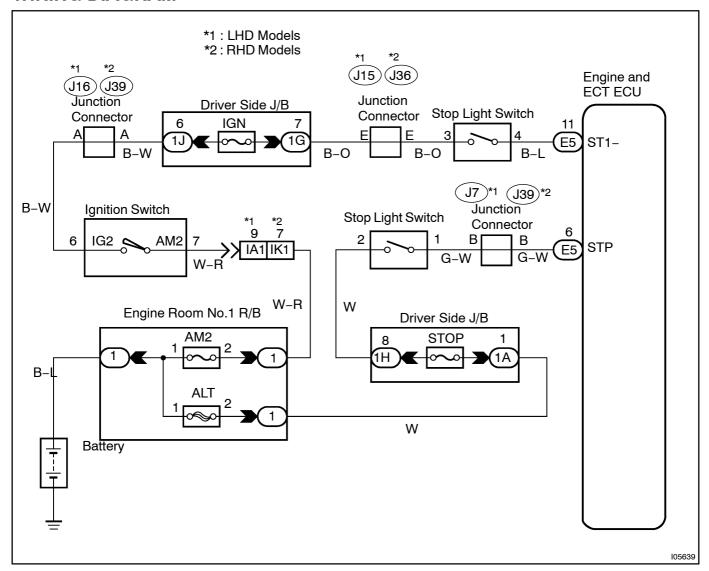
The cancel condition is that battery positive voltage is supplied to terminal STP.

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 using the LEXUS chand-held tester, start the inspection from step 1 and incase of choicester, start from step 2.

1[]

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

PREPARATION:

Connect@he@LEXUS@hand-held@ester@o@he@DLC3.

CHECK:

Check@he[stop@ight[switch@using@DATALIST.

OK:

Condition	Stop[light[switch 1[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 1[has@f]unction[]odisconnect[]the@onnection[]OFF)[when@depressing[]the[]pedal,[]however,[]ECM[]controls[]by[]the[]ogic[]ivers,[\$o[]with[]the[]LEXUS[]hand-held[]ester,[]t[]displays[]ON.
- Stop[]ight[\$W 1[]ndicates[]the[]nput[]of[\$T1-[]erminal[]and[\$top[]ight[\$W[]2[]ndicates[]the[]nput[]of[\$TP terminal.



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2[]

Check operation of stop ight.

CHECK:

Check[that[stop[light]comes[on[when[brake[bedal[is]depressed, and turns[off[when[brake[bedal[is]depressed].

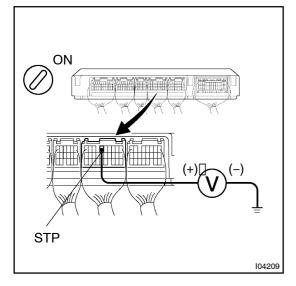
NG

Check[stop[light[system[(See[page[BE-76)].

OK

3∏

Check[voltage[between[terminal[\$TP[of[ECU[connector[and[body[ground.



PREPARATION:

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

CHECK:

Measure[voltage[between[terminal]\$TP[bf[ECU]connector[and body[ground,[when[the[brake[bedal]is]depressed[and[feleased.

OK:

Depressed	10 – 14 V	
Released	Below 1⊡V	

OK[]

Proceed_to_next_circuit_inspection_shown_in problem_symptom_table_(See_page_DI-546).

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4[]

Check wire harness and connector between terminal TP of ECU and stop light switch, and terminal T1-of ECM and stop light witch See page N-29).

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Repair or replace harness or connector.

OK

Check[and[replace[ECU[See[page[N-29]].