DI5XJ–01

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.

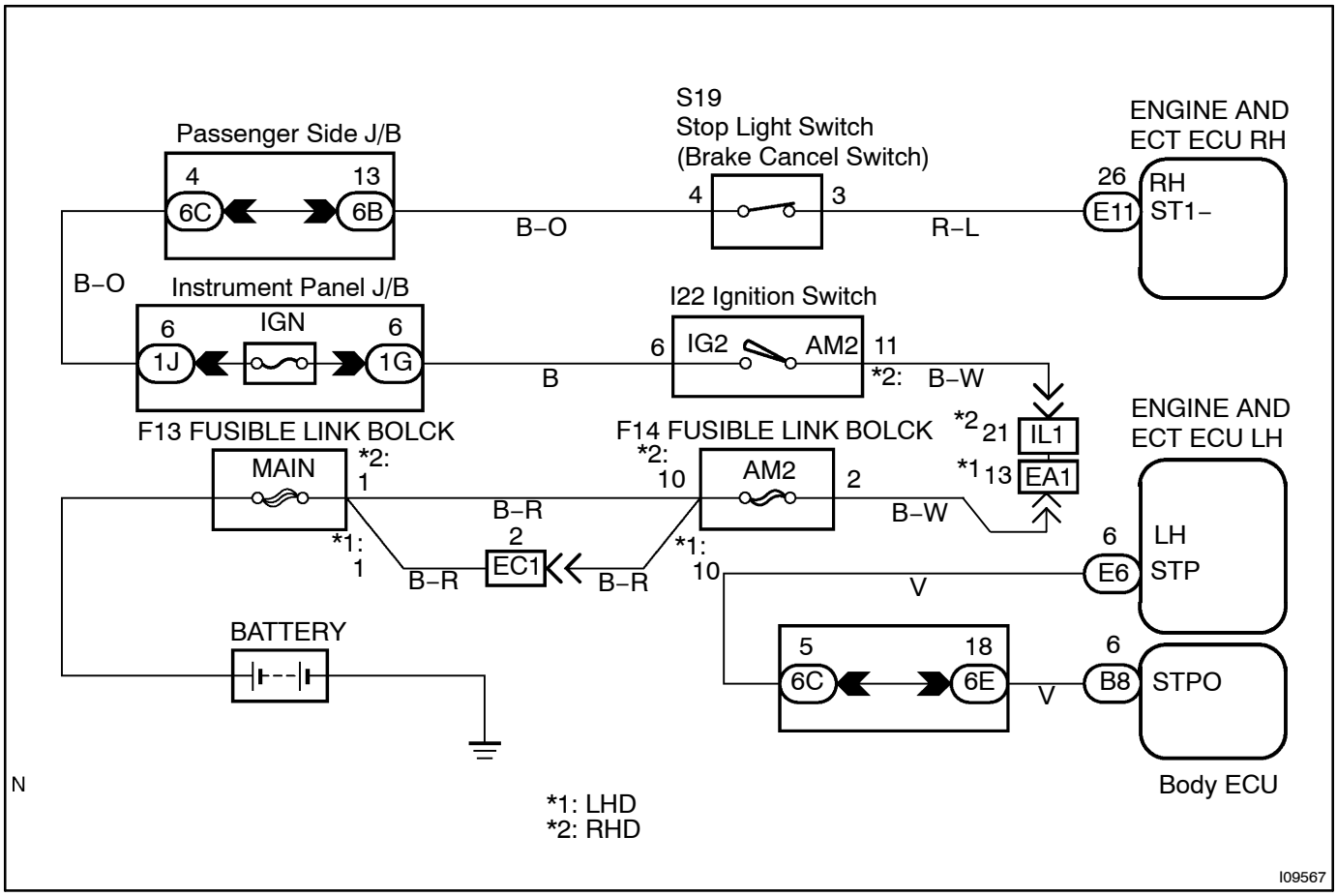
The cancel condition is that battery positive voltage is supplied to terminal STP.

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 circuit.	• Stop light switch • Harness or connector between Engine and ECT ECU and stop light switch circuit • Engine and ECT ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Check operation of stop light.**

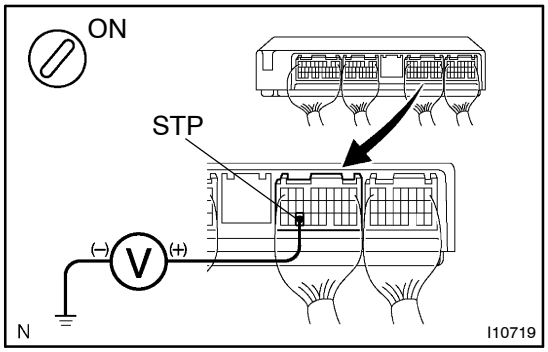
CHECK:

Check that stop light comes on when brake pedal is depressed, and turns off when brake pedal is released.

NG → **Check stop light system (See page BE–2).**

OK

2	**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 of Engine and ECT ECU connector and body ground, when the brake pedal is depressed and released.

OK:

Depressed	10 – 14 V
Released	Below 1 V

OK → **Proceed to next circuit inspection shown in problem symptom table (See page DI–417).**

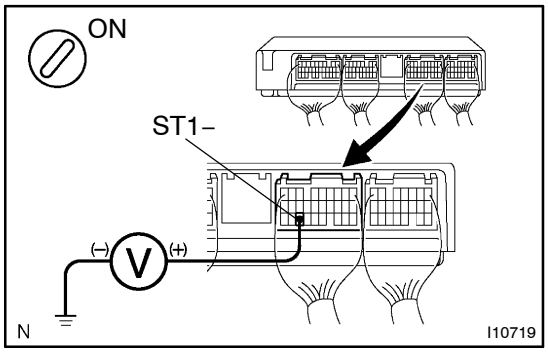
NG

3	**Check wire harness and connector between terminal STP of Engine and ECT ECU and stop light switch, and terminal ST1– of Engine and ECT ECU and stop light switch (See page IN–30).**

NG → **Repair or replace harness or connector.**

OK

4	**Check voltage between terminal ST1– 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– of Engine and ECT ECU connector and body ground, when the brake pedal is depressed and released.

OK:

Released	Below 1 V
Depressed	10 – 14 V

OK	**Proceed to next circuit inspection shown in problem symptoms table (See page DI–417).**

NG

5	**Check for open in harness and connectors between terminal ST1– of Engine and ECT ECU and stop light switch (See page IN–30).**

NG	**Repair or replace harness or connector.**

OK

Check and replace Engine and ECT ECU (See page IN–30).