DI08T–19

Stop Light Switch Circuit

CIRCUIT DESCRIPTION

When the brake pedal is depressed, the stop light switch sends a signal to the ECU. When the 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.

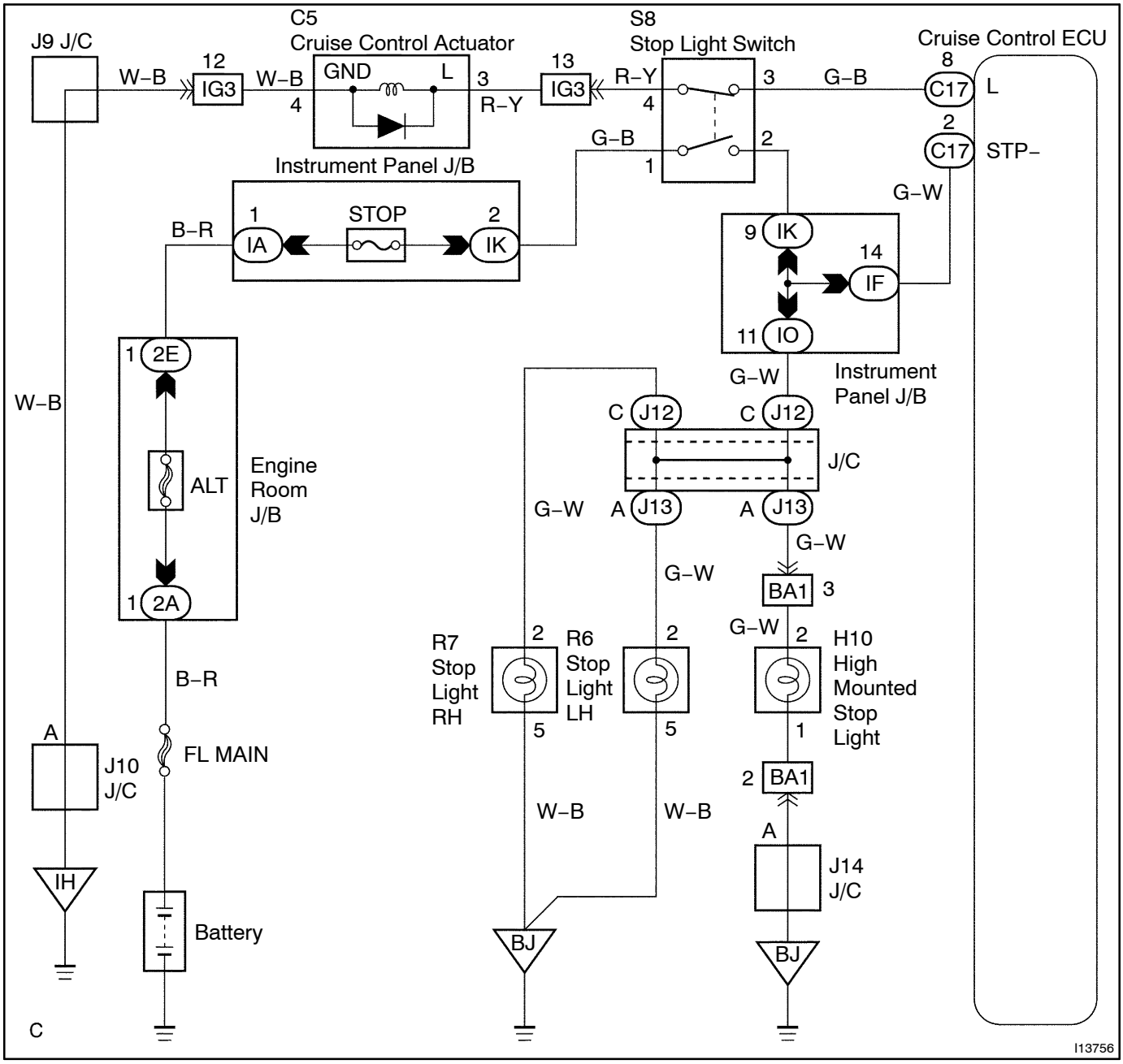
The cancel conditions are: Battery positive voltage at terminal STP–

When the brake is ON, battery positive voltage normally is applied through the STOP fuse and stop light switch to terminal STP– of the ECU, and the 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.

Also, when the brake is ON, the magnetic clutch circuit is cut mechanically by the stop light switch, turning the cruise control OFF. (See page DI–290 for operation of the magnetic clutch)

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	**Input signal check.**

CHECK:

(a) See input signal check on DI–277.

(b) Check the indicator light when the brake pedal is depressed.

OK:

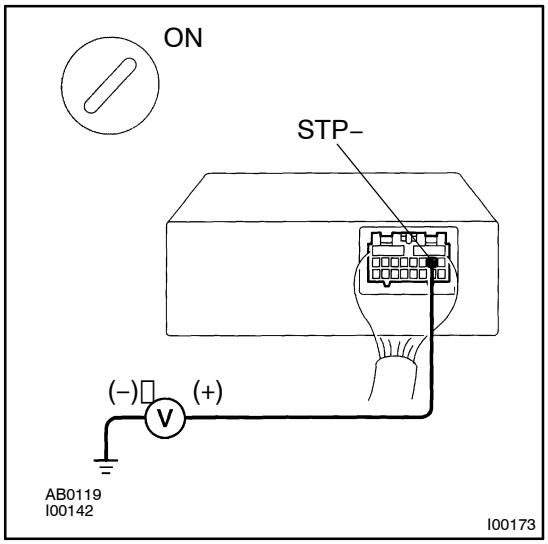
The indicator light goes OFF when the brake pedal is depressed.

Input Signal	Indicator Light Blinking Pattern
Stop Light switch ON	Light: OFF — SW OFF; ON - - - - — SW ON

OK → **Proceed to next circuit inspection shown in problem symptom table (See page DI–286).**

NG

3	**Check voltage between terminal STP– of cruise control ECU connector and body ground.**



PREPARATION:

(a) Remove the ECU with connectors still connected.

(b) Turn ignition switch ON.

CHECK:

Measure voltage between terminal STP– of cruise control 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–286).**

NG

4	**Check for open in harness and connectors between terminal STP– of cruise control ECU and stop light switch (See page IN–30).**

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

OK

Check and replace cruise control ECU (See page IN–30).