

# STOP LIGHT SWITCH CIRCUIT

## CIRCUIT DESCRIPTION

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

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

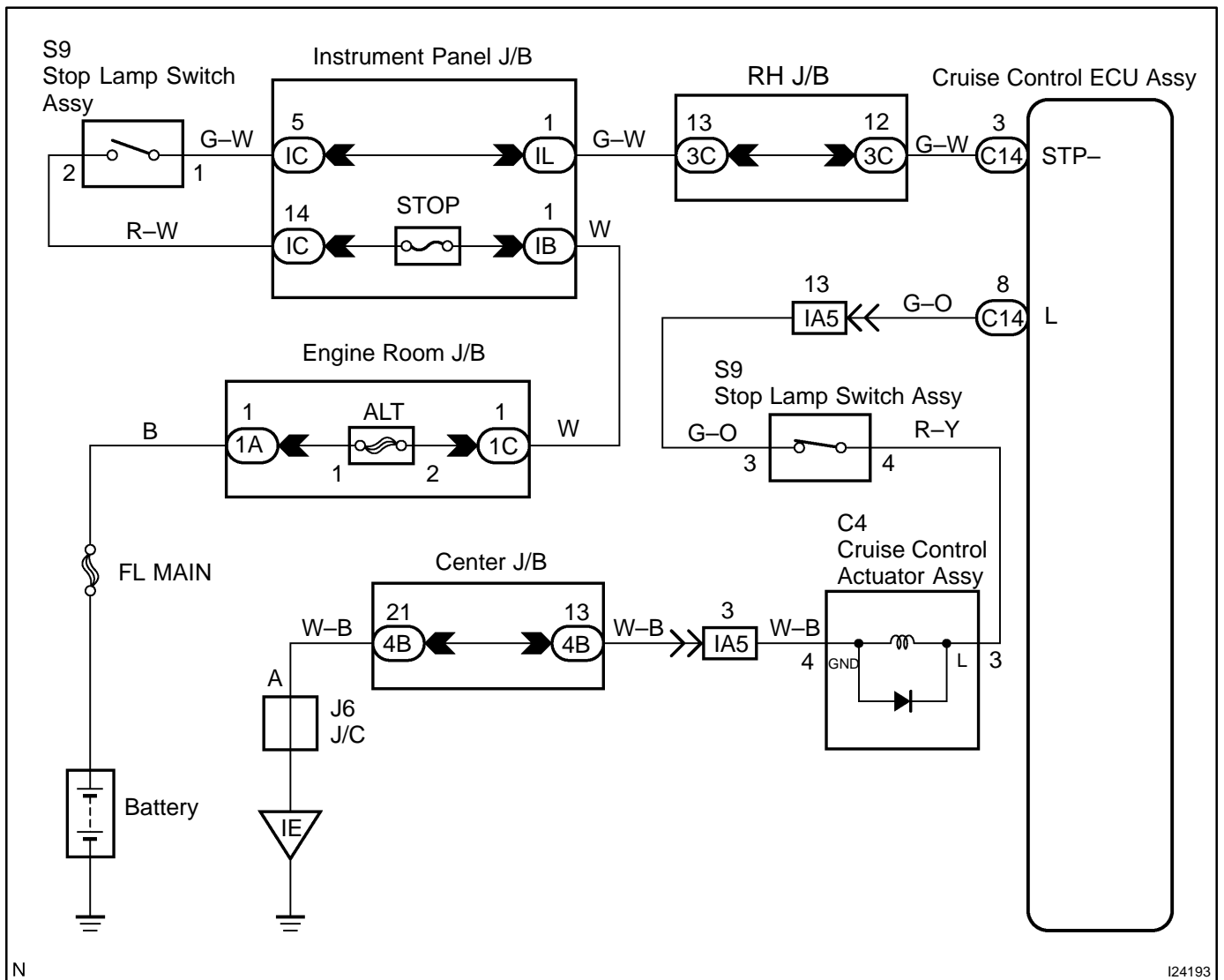
The cancel conditions are: Battery positive voltage at terminal STP-.

When the brake pedal is depressed, normal battery positive voltage normally is applied through the STOP fuse and stop lamp switch assy to terminal STP- of the cruise control ECU assy, and the cruise control ECU assy turns the cruise control to 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 pedal is depressed, the magnetic clutch circuit is cut mechanically by the stop lamp switch assy, turning the cruise control OFF.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

### 1 CHECK OPERATION(STOP LAMP SWITCH ASSY)

- (a) Check that the stop light comes on when the brake pedal is depressed, and turns off when the brake pedal is released.

**NO** INSPECT STOP LAMP CIRCUIT

**YES**

### 2 INPUT SIGNAL CHECK

Input Signal	Indicator Light Blinking Pattern
Stop Lamp Switch ON	

- (a) See input signal check on page 05-745.  
 (b) Check the indicator light when the brake pedal is depressed.

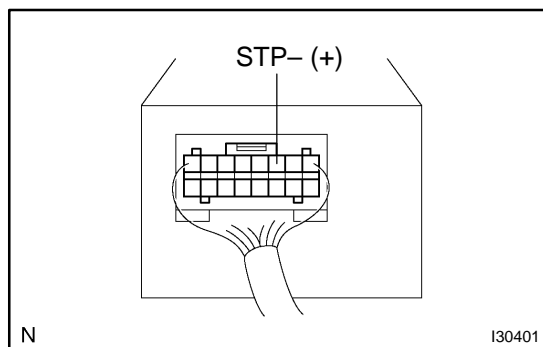
**OK:**

**The indicator light goes off when the brake pedal is depressed.**

**OK** PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05-754)

**NG**

### 3 INSPECT TERMINAL VOLTAGE(STP-)



- (a) Remove the cruise control ECU assy with connectors still connected.  
 (b) Turn the ignition switch to ON.  
 (c) Measure voltage between terminal 3 (STP-) of cruise control ECU assy connector and body ground, when the brake pedal is depressed and released.

**OK:**

Brake Pedal	Voltage
Depressed	10 - 16 V
Released	Below 1 V

**NG** PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05-754)

**OK**

**4 CHECK HARNESS AND CONNECTOR(BETWEEN CRUISE CONTROL ECU ASSY AND STOP LAMP SWITCH ASSY)**

- (a) Check for open and short circuit in harness and connector between cruise control ECU assy and stop lamp switch assy (See page 01-30).

**NG****REPAIR OR REPLACE HARNESS OR CONNECTOR****OK****CHECK AND REPLACE CRUISE CONTROL ECU ASSY (See page 01-30)**