

## Stop Light Switch Circuit

### CIRCUIT DESCRIPTION

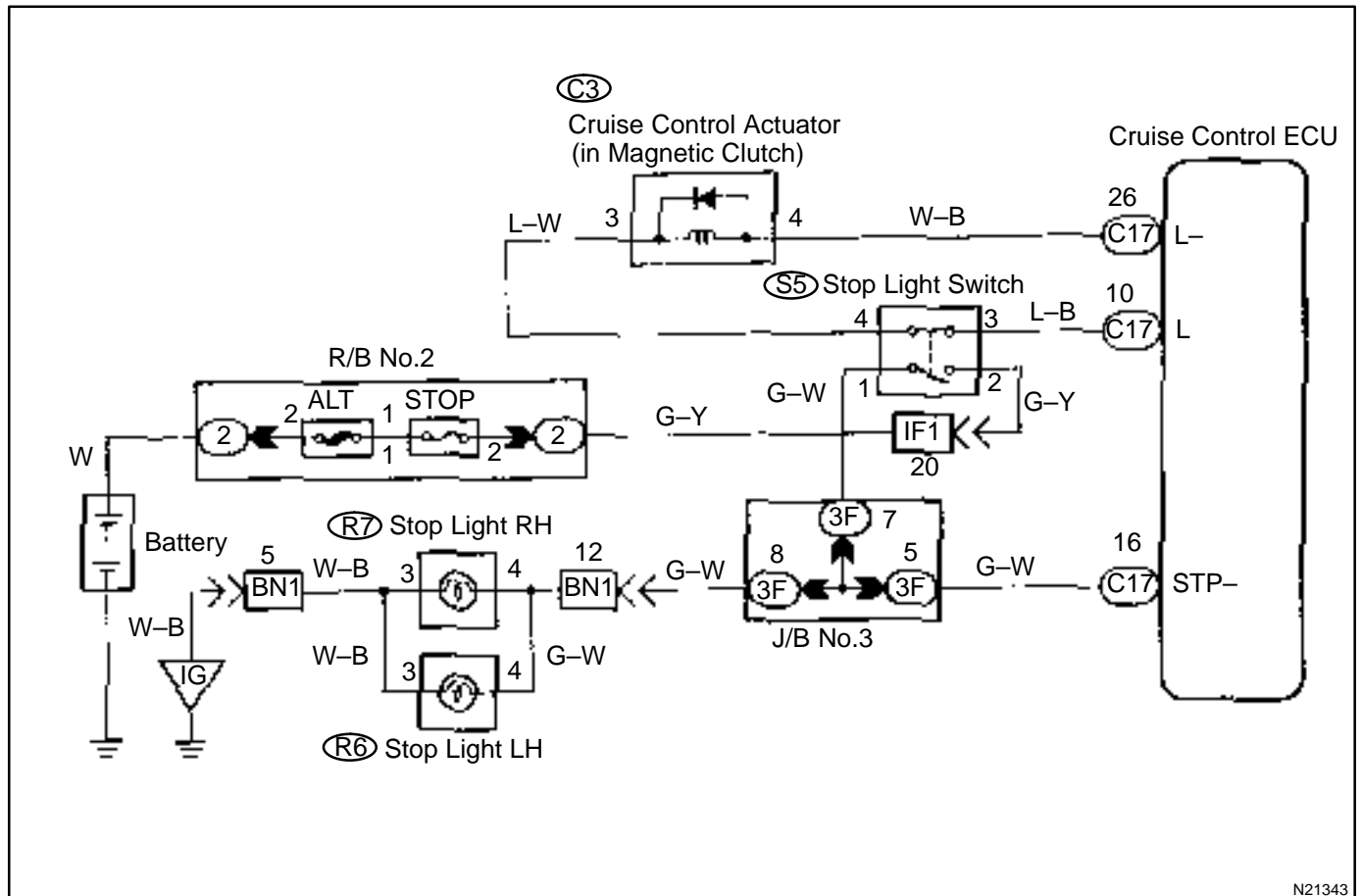
When the brake pedal is on depressed, battery positive voltage normally applies through the STOP fuse and stop light switch to terminal STP- of the ECU, and the ECU turns the cruise control off.

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

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 is cut mechanically by the stop light switch, turning the cruise control off. (See page [DI-572](#) for operation of the magnetic clutch)

### WIRING DIAGRAM



N21343

## INSPECTION PROCEDURE

1	Check operation of stop light.
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### CHECK:

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

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Check stop light system.

OK

2	Input signal check.
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Input Signal	Indicator Light Blinking Pattern
Stop light switch ON	<div> <div>ON</div> <div>SW OFF</div> <div>Light</div> <div>OFF-----</div> <div>SW ON</div> </div>

### CHECK:

- (a) See input signal check on [DI-559](#).
- (b) Check the indicator light when the brake pedal is depressed.

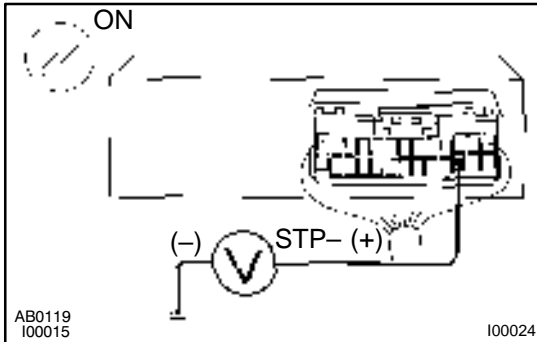
### OK:

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

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-568](#)).

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

Remove cruise control ECU with connectors still connected.

**CHECK:**

- (a) Turn ignition switch ON.
- (b) Measure voltage between terminal STP– of cruise control ECU connector and body ground, when the brake pedal is depressed and released.

**OK:**

Brake pedal position	Voltage
Depressed	10 – 14 V
Released	Below 1 V

**OK**

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-568](#)).

**NG****4 Check for open in harness and connectors between terminal STP– of cruise control ECU and stop light switch (See page [IN-28](#)).****NG**

Repair or replace harness or connector.

**OK**

Check and replace cruise control ECU (See page [IN-28](#)).