

<b>DTC</b>	<b>12</b>	<b>Magnetic Clutch Circuit</b>
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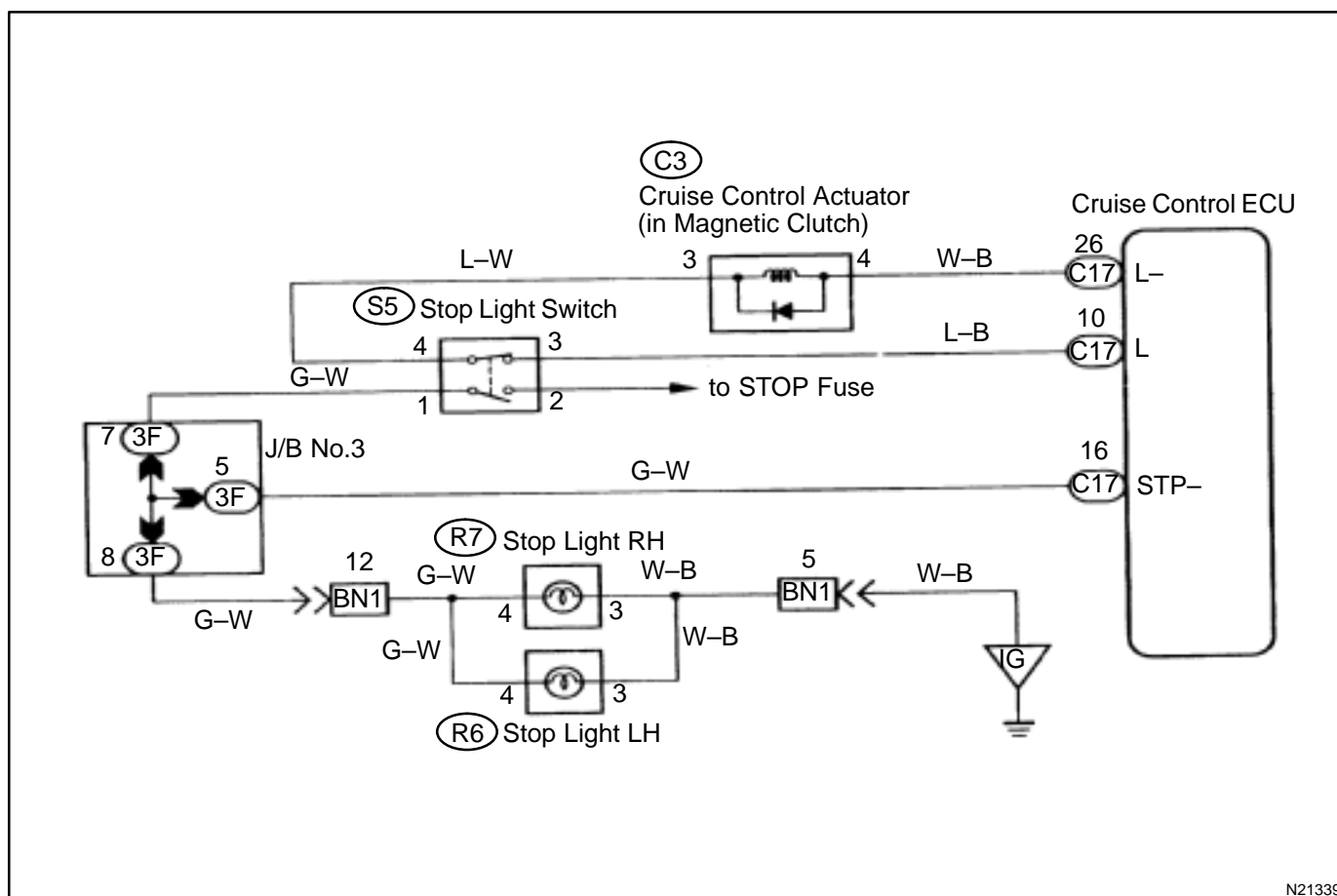
## CIRCUIT DESCRIPTION

This circuit turns on the magnetic clutch inside the actuator during cruise control operation according to the signal from the ECU. If a malfunction occurs in the actuator or speed sensor, etc. during cruise control operation, the rotor shaft between the motor and control plate is released.

When the brake pedal is depressed, the stop light switch turns on, supplying electrical power to the stop light. Power supply to the magnetic clutch is mechanically cut and the magnetic clutch is turned OFF. When driving downhill, if the vehicle speed exceeds the set speed by 15 km/h (6 mph), cruise control at the set speed is resumed.

DTC No.	Detection Item	Trouble Area
12	<ul style="list-style-type: none"> <li>• Short in magnetic clutch circuit.</li> <li>• Open (0.8 sec.) in magnetic clutch circuit</li> </ul>	<ul style="list-style-type: none"> <li>• Harness or connector between ECU and magnetic clutch, magnetic clutch and body ground</li> <li>• STOP fuse and stop light switch</li> <li>• Cruise control actuator magnetic clutch</li> <li>• Cruise control ECU</li> </ul>

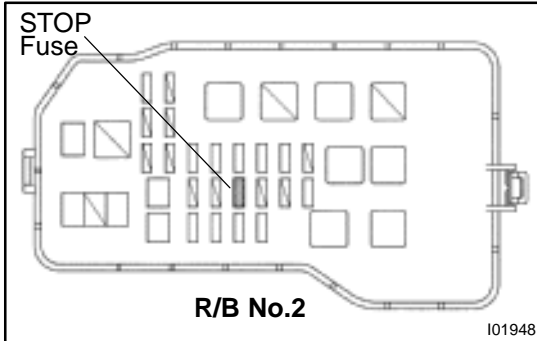
## WIRING DIAGRAM



N21339

## INSPECTION PROCEDURE

## 1 Check STOP fuse.

**PREPARATION:**

Remove STOP fuse from Relay Block No.2.

**CHECK:**

Check fuse continuity.

**OK:**

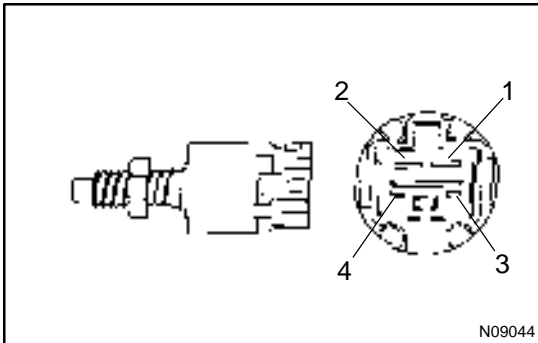
There is continuity.

NG

Replace STOP fuse.

OK

## 2 Check stop light switch.

**PREPARATION:**

Disconnect stop light switch connector.

**CHECK:**

Check continuity between terminals.

**OK:**

Switch position	Continuity
Switch pin free (Brake pedal depressed)	1 – 2
Switch pin pushed in (Brake pedal released)	3 – 4

NG

Replace stop light switch.

OK

3	Check harness and connector between actuator and cruise control actuator (See page <a href="#">IN-28</a> ).
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**NG****Repair or replace harness or connector.****OK****Check and replace cruise control ECU (See page [IN-28](#)).**