

|            |              |                                             |
|------------|--------------|---------------------------------------------|
| <b>DTC</b> | <b>P1520</b> | <b>Stop Light Switch Signal Malfunction</b> |
|------------|--------------|---------------------------------------------|

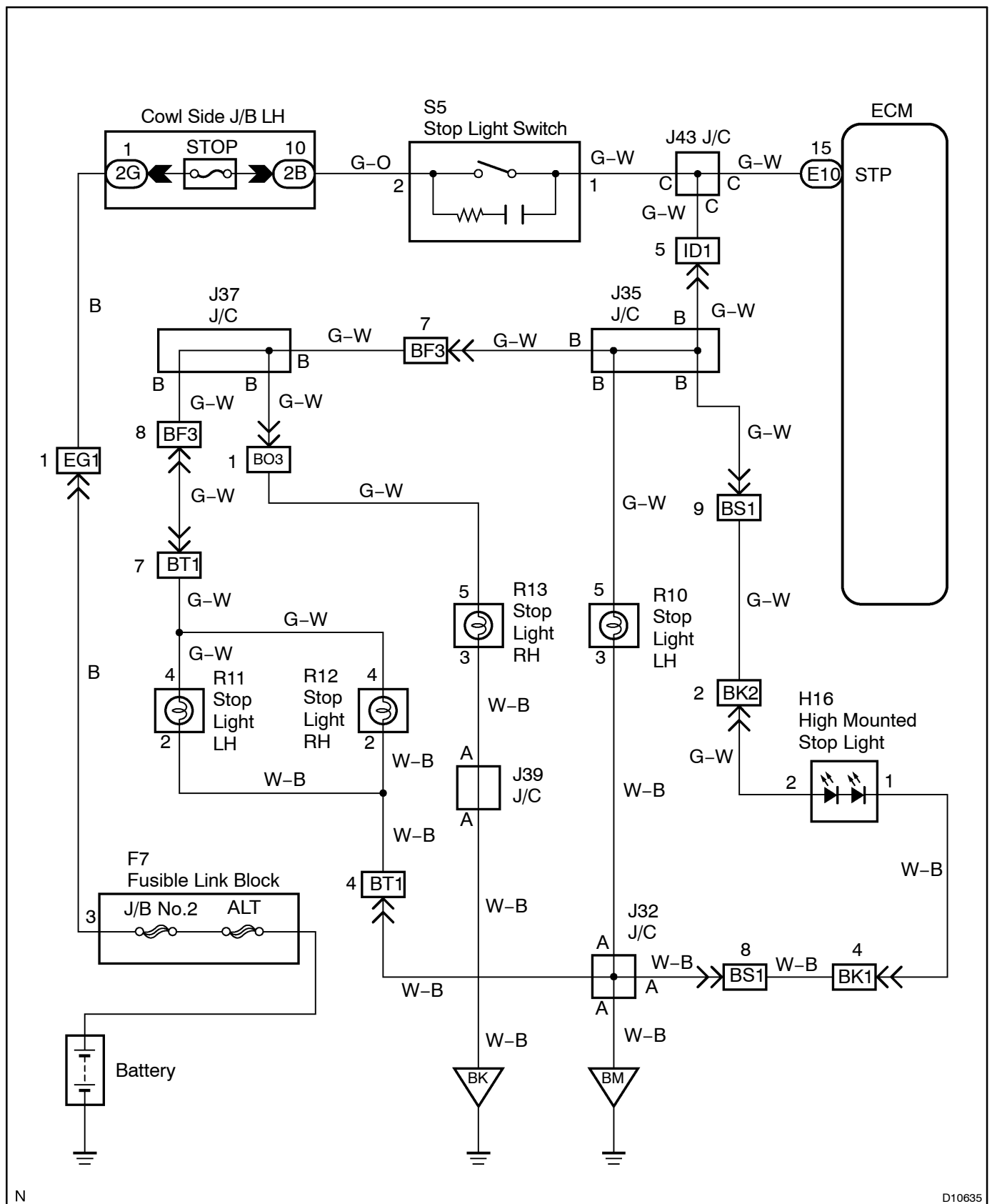
## CIRCUIT DESCRIPTION

The purpose of this circuit is to prevent the engine from stalling, while driving in lock-up condition, when brakes are suddenly applied.

When the brake pedal is operated, this switch sends a signal to ECM. Then the ECM cancels operation of the lock-up clutch while braking is in progress.

| DTC No. | DTC Detecting Condition                                                                             | Trouble Area                                                                                                                              |
|---------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| P1520   | The stop light switch does not turn off even once the vehicle is driven<br>(2-trip detection logic) | <ul style="list-style-type: none"> <li>• Short in stop light switch signal circuit</li> <li>• Stop light switch</li> <li>• ECM</li> </ul> |

## WIRING DIAGRAM



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D10635

## INSPECTION PROCEDURE

## 1 Check operation of stop light.

**CHECK:**

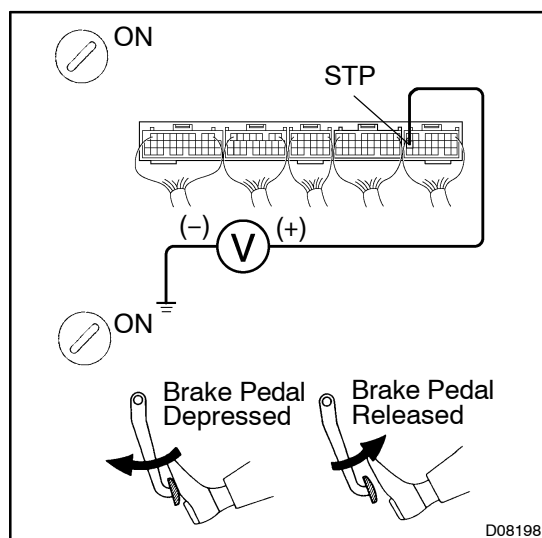
Check if the stop lights go on and off normally when the brake pedal is depressed and released.

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Check and repair stop light circuit.

OK

## 2 Check STP signal.

**When using LEXUS hand-held tester:****PREPARATION:**

- Remove the fuse cover on the instrument panel.
- Connect the LEXUS hand-held tester to the DLC3.
- Turn the ignition switch ON and LEXUS hand-held tester main switch ON.

**CHECK:**

Read the STP signal on the LEXUS hand-held tester.

**OK:**

Brake pedal is depressed: STP .... ON

Brake pedal is released: STP .... OFF

**When not using LEXUS hand-held tester:****PREPARATION:**

Turn the ignition switch ON.

**CHECK:**

Check voltage between terminal STP of ECM and body ground.

**OK:**

| Brake pedal | Voltage     |
|-------------|-------------|
| Depressed   | 7.5 ~ 14 V  |
| Released    | Below 1.5 V |

OK

Check for intermittent problems  
(See page [DI-3](#)).

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|   |                                                                                                     |
|---|-----------------------------------------------------------------------------------------------------|
| 3 | Check harness and connector between ECM and stop light switch<br>(See page <a href="#">IN-34</a> ). |
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Repair or replace harness or connector.

OK

Check and replace ECM (See page [IN-34](#)).