

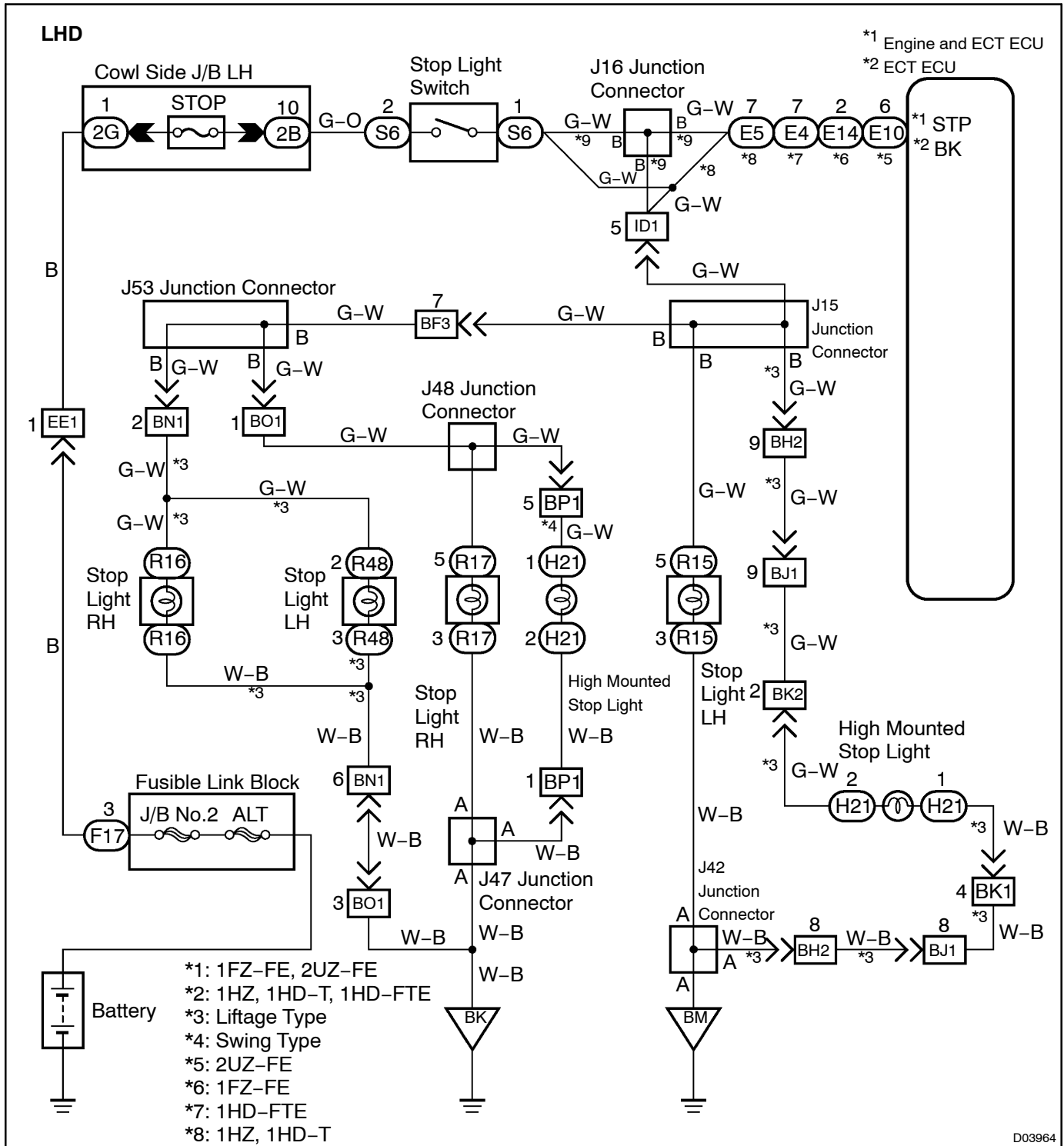
## Stop Light Switch Signal Circuit

### CIRCUIT DESCRIPTION

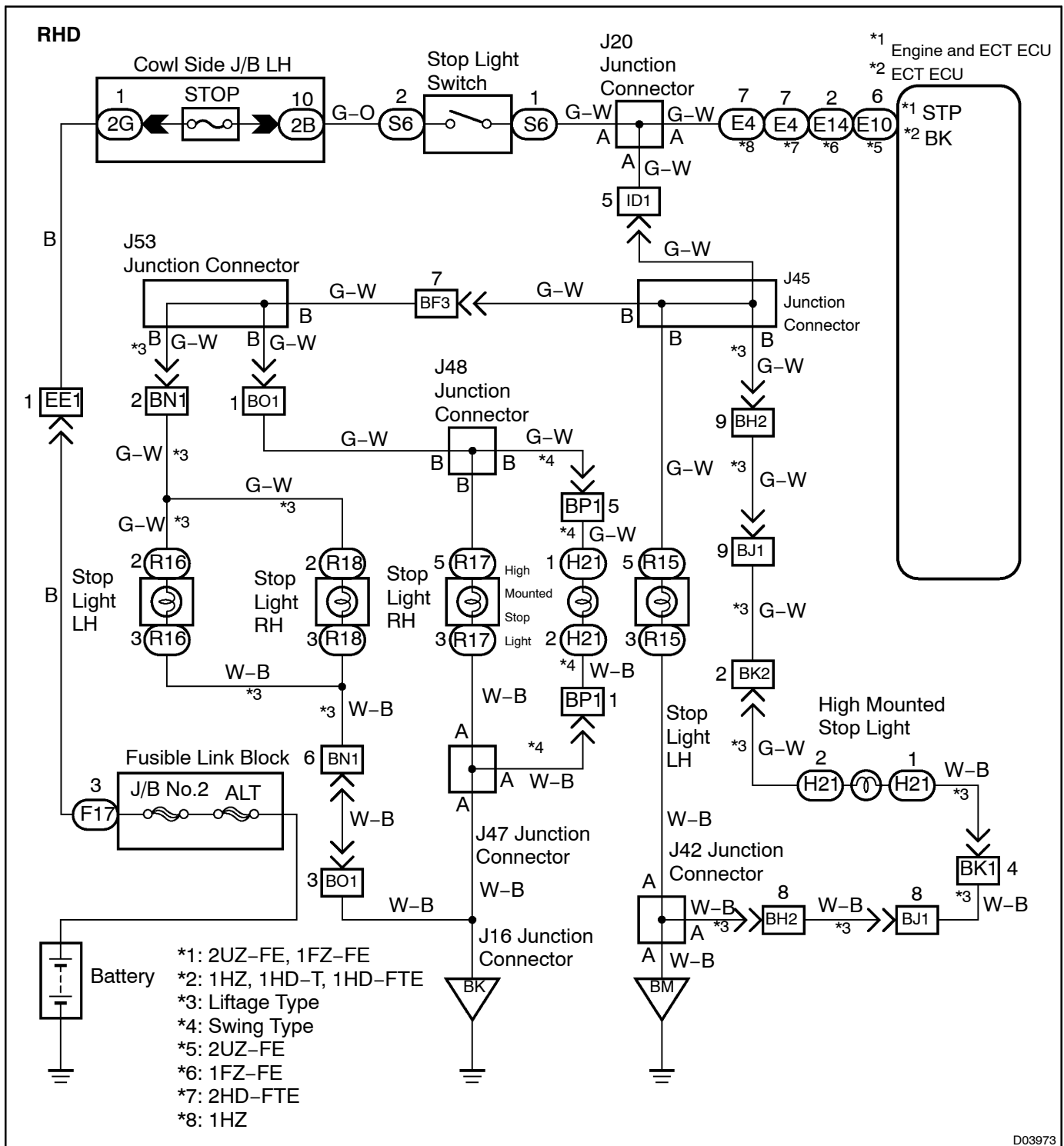
The purpose of this circuit is to prevent the engine from stalling, while driving in lock-up condition, when brakes are suddenly applied.

When the brake pedal is depressed, this switch sends a signal to Engine and ECT ECU (2UZ-FE, 2FZ-FE) or ECT ECU (2HZ, 1HD-T, 1HD-FTE). Then the Engine and ECT ECU (2UZ-FE, 1FZ-FE) or ECT ECU (1HZ, 1HD-T, 1HD-FTE) cancels operation of the lock-up clutch while braking is in progress.

## WIRING DIAGRAM



D03964



D03973

## INSPECTION PROCEDURE

### HINT:

Read freeze frame data using hand-held tester. Because freeze frame records the engine conditions when the malfunction is detected, when troubleshooting it is useful for determining whether the vehicle was running or stopped, the engine warmed up or not, the air-fuel ratio lean or rich, etc. at the time of the malfunction.

|   |                                |
|---|--------------------------------|
| 1 | Check operation of stop light. |
|---|--------------------------------|

### CHECK:

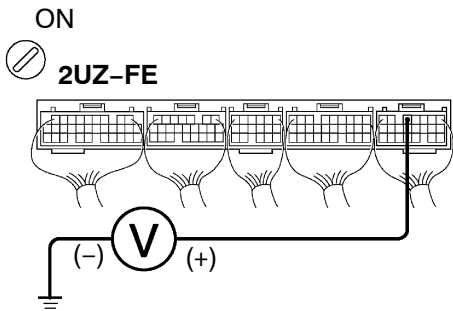
Check if the stop lights go on and off normally when the brake pedal is depressed and released.

NG

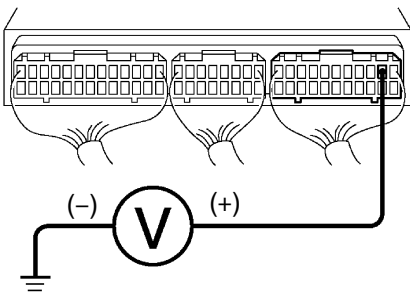
Check and repair stop light circuit.

OK

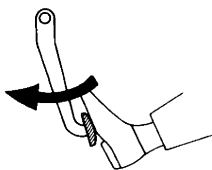
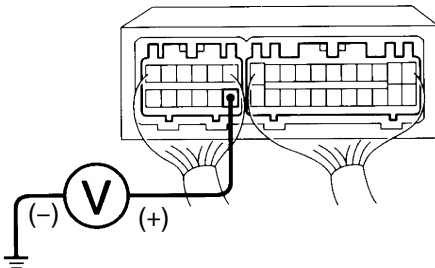
2 Check STP signal.



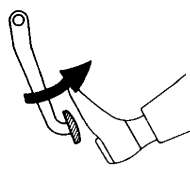
1FZ-FE



2HZ, 1HD-T, 1HD-FTE



Brake Pedal  
Depressed



Brake Pedal  
Released

D03367  
D03368  
Q11283  
Q06993

D04186

**When using hand-held tester:**

**PREPARATION:**

- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch ON and hand-held tester main switch ON.

**CHECK:**

Read the STP signal on the hand-held tester.

**OK:**

**Brake pedal is depressed: STP...ON**

**Brake pedal is released: STP...OFF**

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

**PREPARATION:**

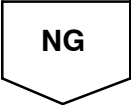
- (a) Remove the glove compartment door.
- (b) Turn the ignition switch ON.

**CHECK:**

Check voltage between terminal STP of the Engine and ECT ECU or terminal BK of the ECT ECU and body ground.

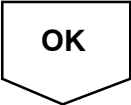
**OK:**

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

OKCheck for intermittent problems.NG

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Check harness and connector between Engine and ECT ECU or ECT ECU and stop light switch ([See page IN-35](#)).

NGRepair or replace harness or connector.OK

Check and replace Engine and ECT ECU or ECT ECU ([See page IN-35](#)).