

DTC	P1520	Stop Light Switch Signal Malfunction
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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 (2-trip detection logic)	• Short in stop light switch signal circuit • Stop light switch • ECM

INSPECTION PROCEDURE

1 Check operation of stop light.

CHECK:

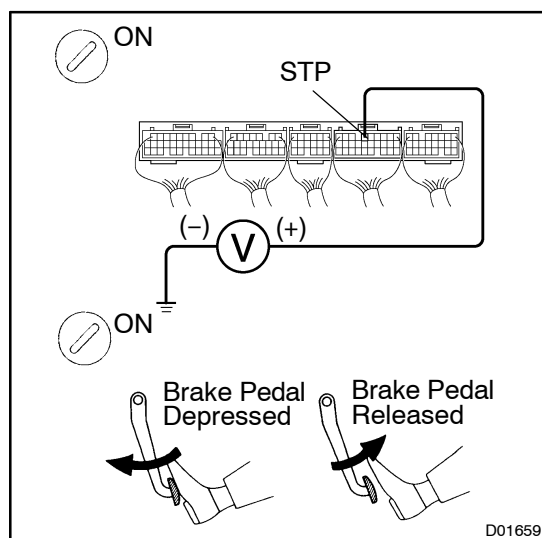
Check if the stop lights go on and off normally when the brake pedal is depressed and released.

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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 (See page IN-34).
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Repair or replace harness or connector.

OK

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