

DTC	P1520	Stop Light Switch Signal Malfunction
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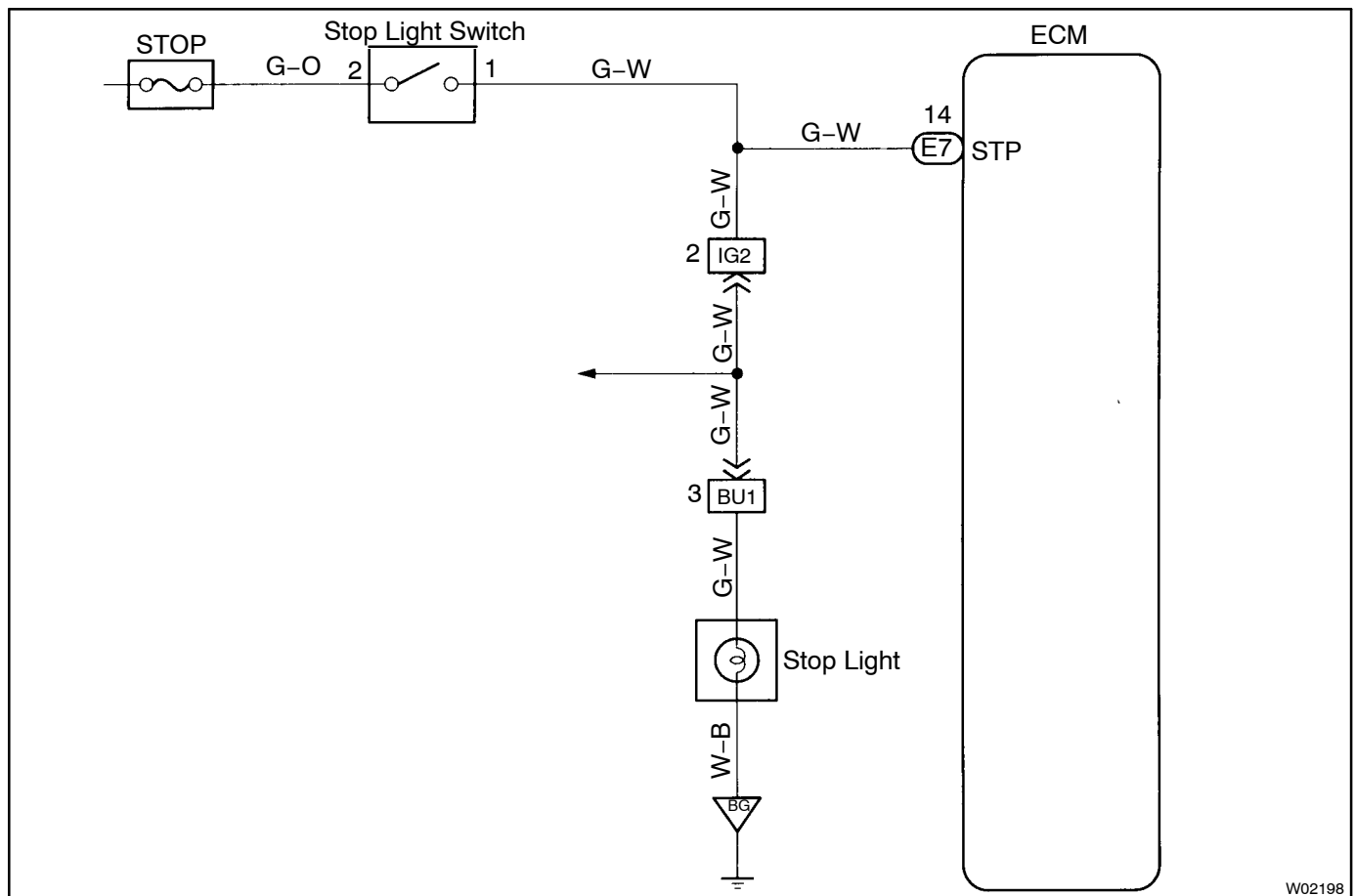
CIRCUIT DESCRIPTION

This signal is used to detect when the brakes have been applied. The STP signal voltage is the same as the voltage supplied to the stop lights.

The STP signal is used mainly to control the fuel cut-off engine speed. (The fuel cut-off engine speed is reduced slightly when the vehicle is braking.)

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

WIRING DIAGRAM



W02198

INSPECTION PROCEDURE

1 Check operation of stop light.

CHECK:

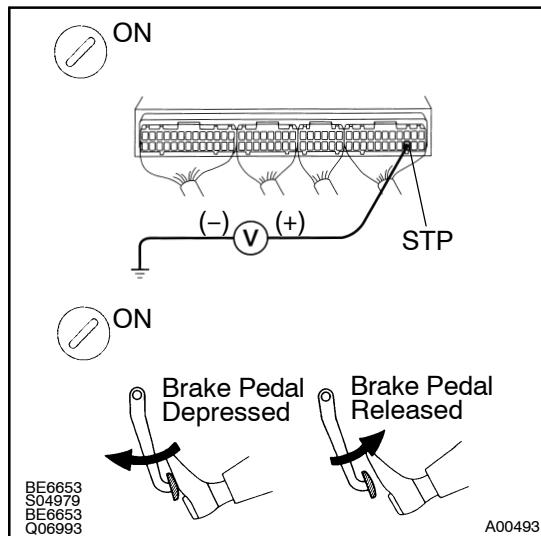
Check if the stop lights go on and off normally when the brake pedal is operated and released.

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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-27).
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Repair or replace harness or connector.

OK

Check and replace ECM (See page [IN-27](#)).