

DTC	51	STOP LIGHT SWITCH CIRCUIT MALFUNCTION
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CIRCUIT DESCRIPTION

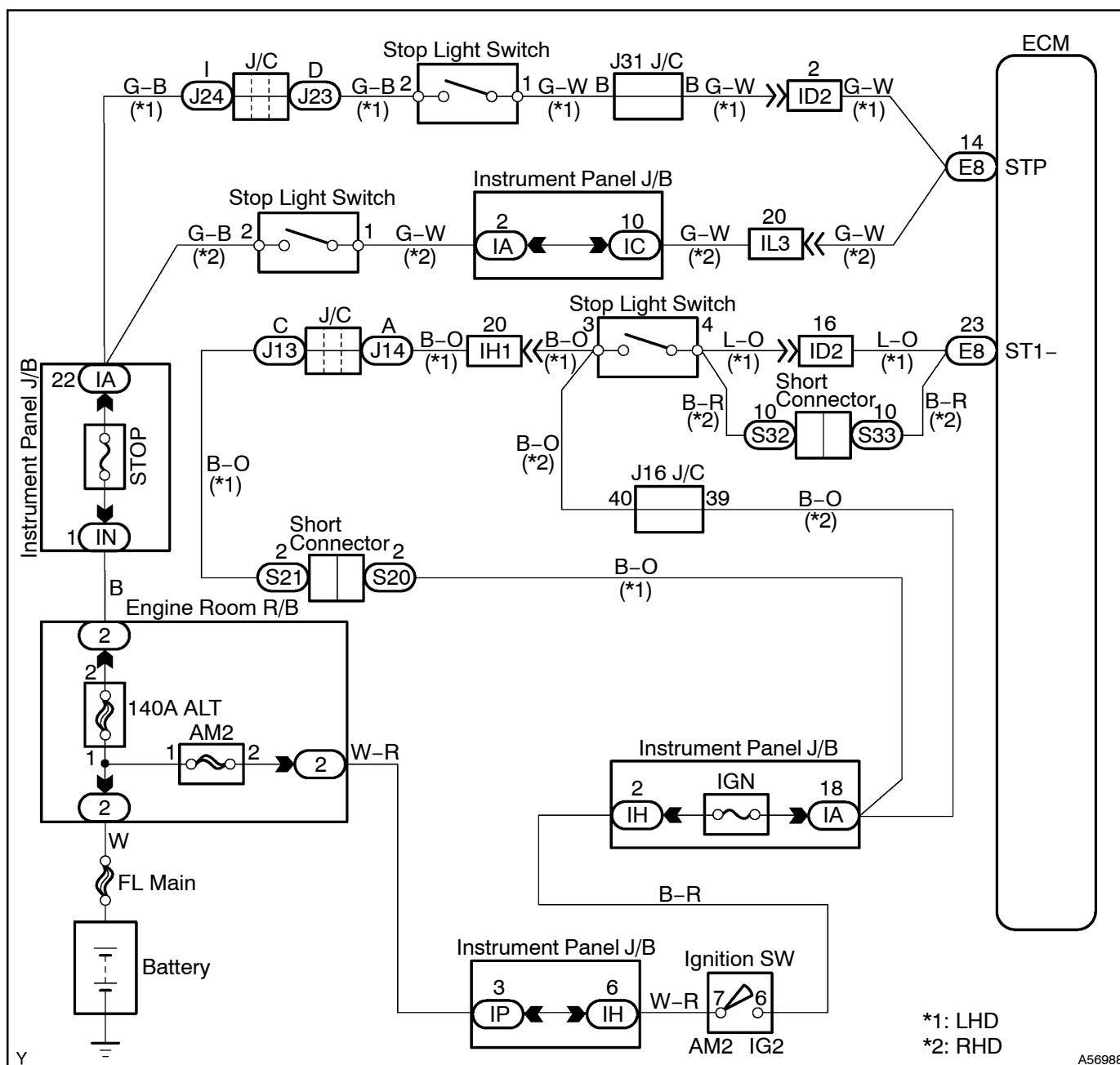
In this system, the signal of the stoplight switch is used for the judgement to detect abnormality in the acceleration system.

The stoplight switch has a duplex system (STP and ST1-).

That is to memorize the abnormality when the signals at the time of depressing and nondepressing the brake pedal are detected simultaneously.

DTC No.	DTC Detection Condition	Trouble Area
51	When STP (without depressing the brake pedal) and ST1- (with the brake pedal depressed) signals continue for longer than 0.5 seconds with the ignition switch ON	<ul style="list-style-type: none"> • Open or short in stop light switch signal circuit • Stop light switch • ECM

WIRING DIAGRAM



A56988

INSPECTION PROCEDURE

HINT:

Read freeze frame data using the hand-held tester, as freeze frame data 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 was warmed up or not, the air-fuel ratio was lean or rich, etc. at the time of the malfunction.

1 CHECK OPERATION OF STOP LIGHT

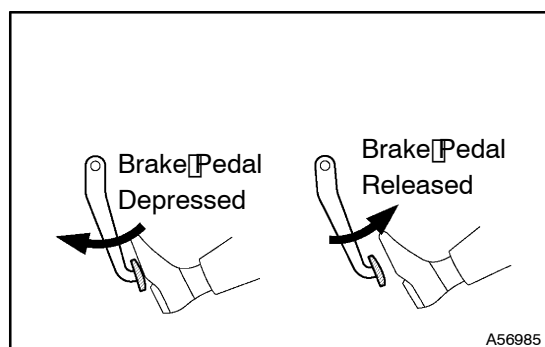
- (a) Check if the stop lights go on and off normally when the brake pedal is depressed and released.

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REPAIR STOP LIGHT SWITCH CIRCUIT

OK

2 INSPECT ECM



- (a) Turn the ignition switch ON.
 (b) Check the voltage between terminal STP and E2 of the ECM connector.

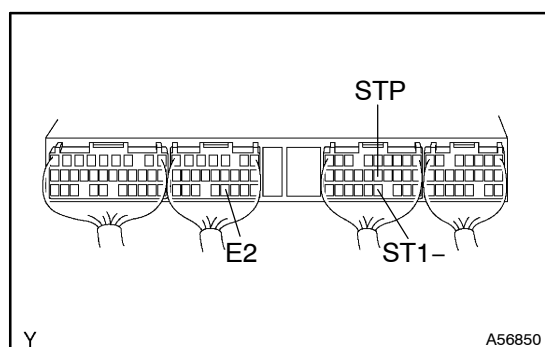
Voltage:

Brake Pedal	Voltage
Depressed	7.5 – 14 V
Released	Below 1.5 V

- (c) Check the voltage between terminal ST1- and E2 of the ECM connector.

Voltage:

Brake Pedal	Voltage
Depressed	Below 1.5 V
Released	7.5 – 14 V

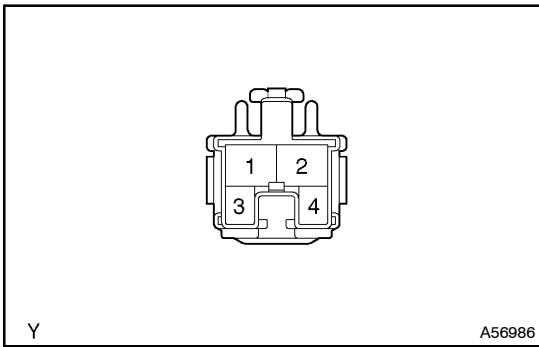


OK

CHECK FOR INTERMITTENT PROBLEMS
 (See page 05-156)

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3 CHECK HARNESS AND CONNECTOR(ECM-STOP LIGHT SWITCH)



- (a) Disconnect the stop light switch connector.
- (b) Disconnect the ECM E8 connector.
- (c) Check for open between the terminals STP of the ECM E8 connector and 1 of the stop light switch harness side connector.

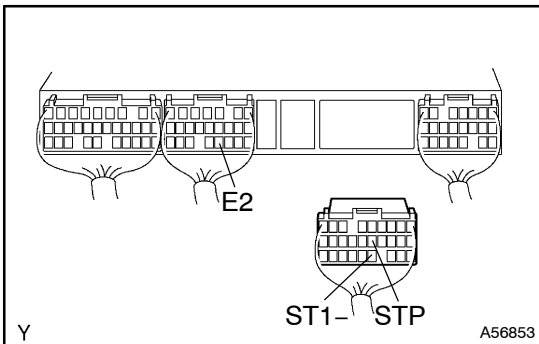
Resistance: 1 Ω or less

- (d) Check for open between the terminals ST1- of the ECM E8 connector and 4 of the stop light switch harness side connector.

Resistance: 1 Ω or less

- (e) Check for short between the terminals STP, ST1- and E2 of the ECM E8 connector.

Resistance: 1 M Ω or more



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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

CHECK AND REPLACE ECM