

DTC	P0504	Brake Switch "A"/"B" Correlation
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CIRCUIT DESCRIPTION

In this system, the signal of the stop light switch is used to judge whether the acceleration system is abnormal or not.

The stop light switch has a duplex system (signals STP and ST1–) to memorize the abnormality when the signals of depressing and releasing the brake pedal are detected simultaneously.

HINT:

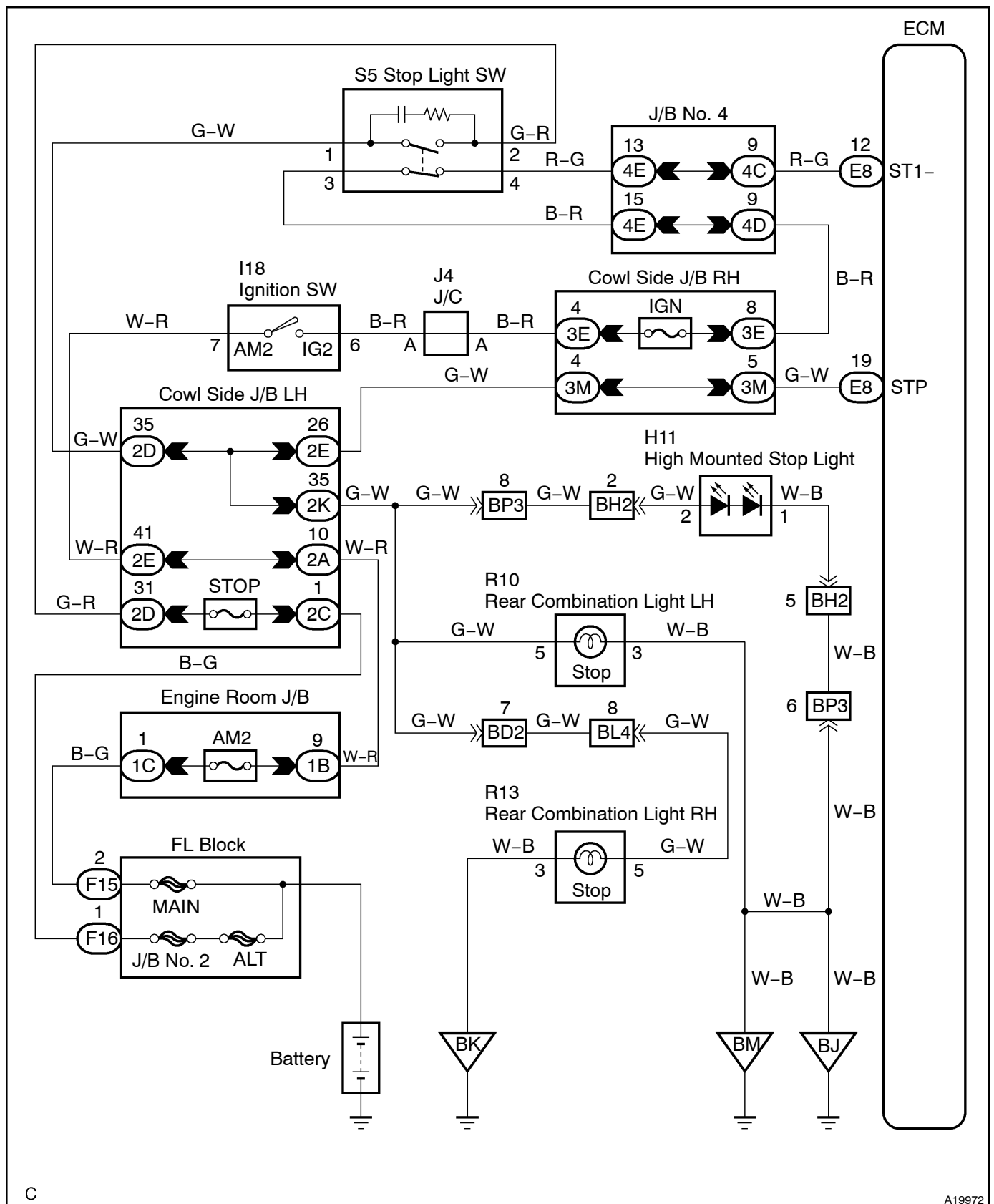
The normal signal conditions are as shown in the table below.

Signal (ECM Terminal)	Brake pedal released	In transition	Brake pedal depressed
STP	OFF	ON	ON
ST1–	ON	ON	OFF

- [ON] denotes ground potential.
- [OFF] denotes battery potential (+B).

DTC No.	DTC Detecting Condition	Trouble Area
P0504	Both of STP and ST1– are OFF for 0.5 sec when following conditions are met: • Ignition switch ON • Brake pedal released	• Stop light switch signal circuit • Stop lamp fuse • Stop light switch • ECM

WIRING DIAGRAM



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INSPECTION PROCEDURE

HINT:

Read freeze frame data using hand-held tester or the OBD II scan tool, as freeze frame data records the engine conditions when a malfunction is detected. When troubleshooting, this 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.

CHECK:

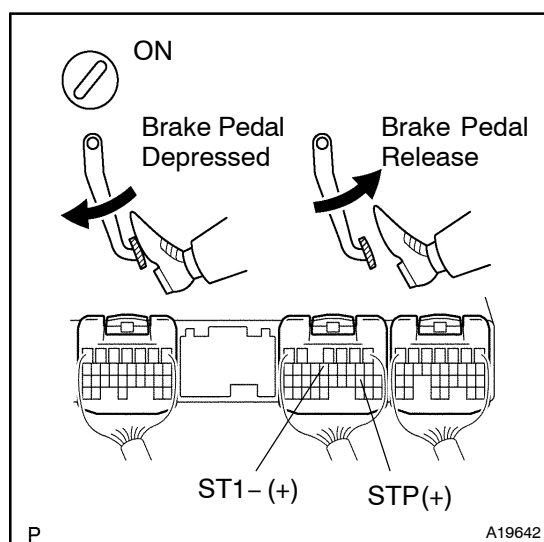
Check if the stop lights go on and off normally when the brake pedal is operated and released.

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Check and repair stop light circuit.

OK

2 Check STP signal.



PREPARATION:

- Remove the glove compartment door (See page [SF-60](#)).
- Turn the ignition switch ON.

CHECK:

Check the voltage between terminal STP and ST1- of the ECM connector and body ground.

OK:

Brake Pedal	Voltage	
	STP	ST1-
Depressed	7.5 - 14 V	Below 1.5 V
Released	Below 1.5 V	7.5 - 14 V

OK

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

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3	Check stop light switch (See page BE-50).
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Replace stop light switch.

OK

4	Check harness and connector between ECM and stop light switch (See page IN-36).
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Repair or replace harness or connector.

OK

Check and replace ECM (See page [IN-36](#)).