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

The stop light switch is a duplex system that transmits two signals: STP and ST1-. These two signals are used by the ECM to monitor whether or not the brake system is working properly. If the signals, which indicate the brake pedal is being depressed and released, are detected simultaneously, the ECM interprets this as a malfunction in the stop light switch and sets the DTC.

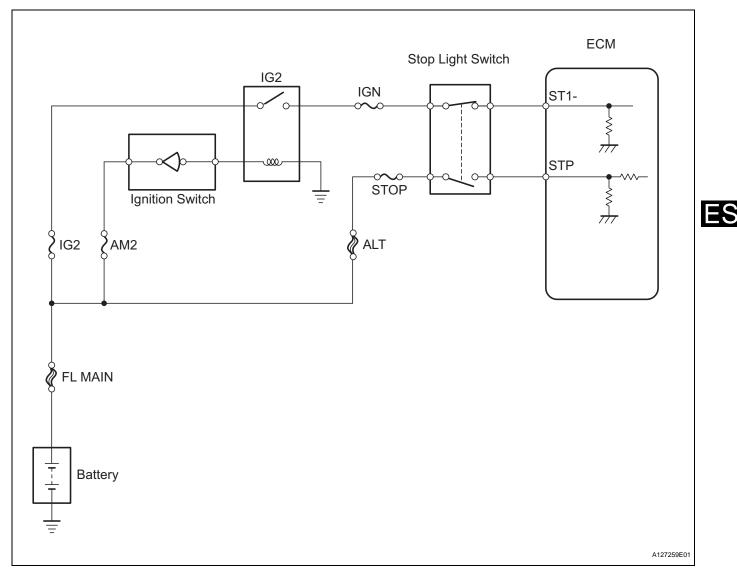
HINT:

The normal conditions are as shown in the table below. The signals can be read using the intelligent tester.

	Signals	Brake Pedal Released	In Transition	Brake Pedal Depressed
Ľ	STP	OFF	ON	ON
	ST1-	ON	ON	OFF

DTC No.	DTC Detection Conditions	Trouble Areas
P0504	Conditions (a), (b) and (c) continue for 0.5 seconds or more (1 trip detection logic): (a) Ignition switch ON (b) Brake pedal released (c) STP signal OFF when ST1- signal OFF	 Short in stop light switch signal circuit STOP fuse IGN fuse Stop light switch ECM

WIRING DIAGRAM

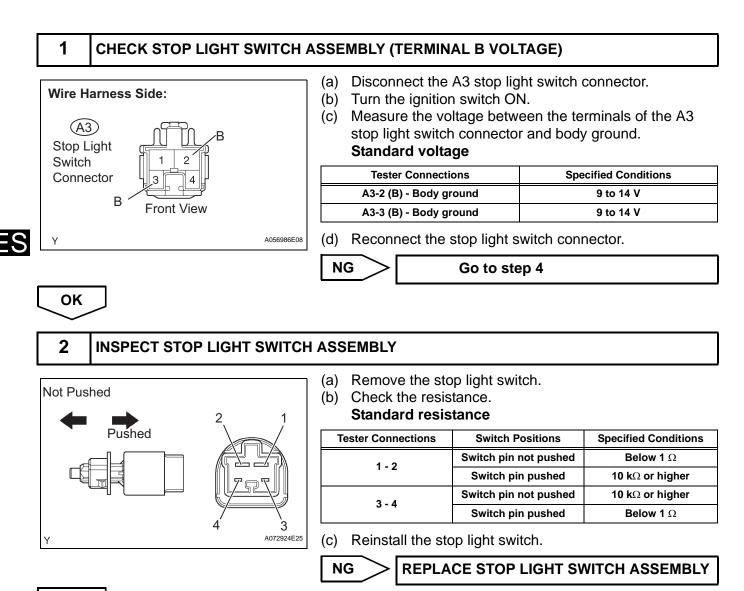


INSPECTION PROCEDURE

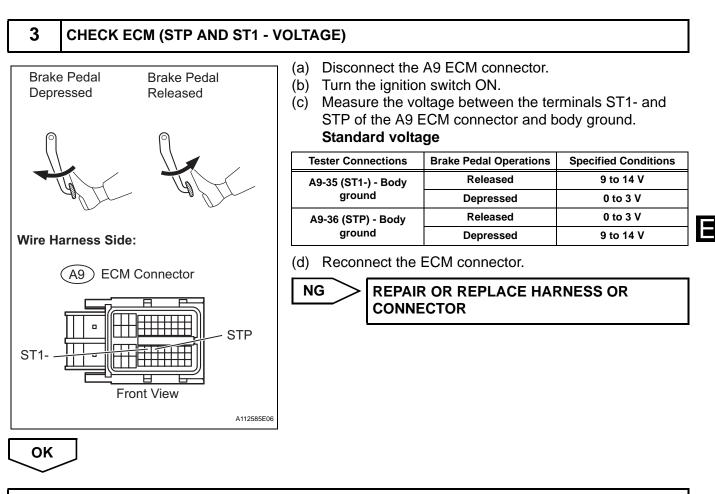
HINT:

- Read freeze frame data using the intelligent tester. Freeze frame data records the engine condition when malfunctions are detected. When troubleshooting, freeze frame data can help determine if the vehicle was moving or stationary, if the engine was warmed up or not, if the air-fuel ratio was lean or rich, and other data from the time the malfunction occurred.
- STP signal conditions can be checked using the intelligent tester.
 - (a)Connect the intelligent tester to the DLC3.
 - (b)Turn the ignition switch ON.
 - (c) Turn the tester ON.
 - (d)Select the following menu items: DIAGNOSIS / ENHANCED OBD II / DATA LIST / PRIMARY / STOP LIGHT SW.
 - (e)Check the STP signal when the brake pedal is depressed and released.

Brake Pedal Operation	Specified Conditions	
Depressed	STP signal ON	
Released	STP signal OFF	



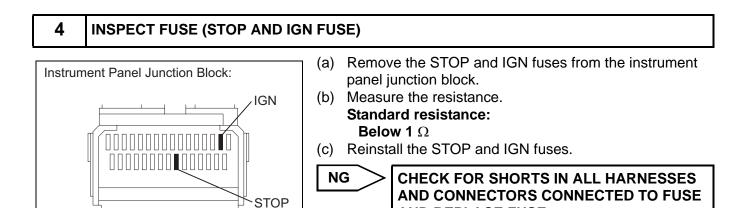
ОК



REPLACE ECM

Ρ

OK



AND REPLACE FUSE

REPAIR OR REPLACE HARNESS OR CONNECTOR

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