

DTC	P0571/52	Brake Switch "A" Circuit
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CIRCUIT DESCRIPTION

When the brake pedal is depressed, the stop light switch sends a signal to the ECM. When the ECM receives this signal, it cancels the cruise control.

A fail-safe function is provided so that the functions normally, even if there is a malfunction in the stop light signal circuit.

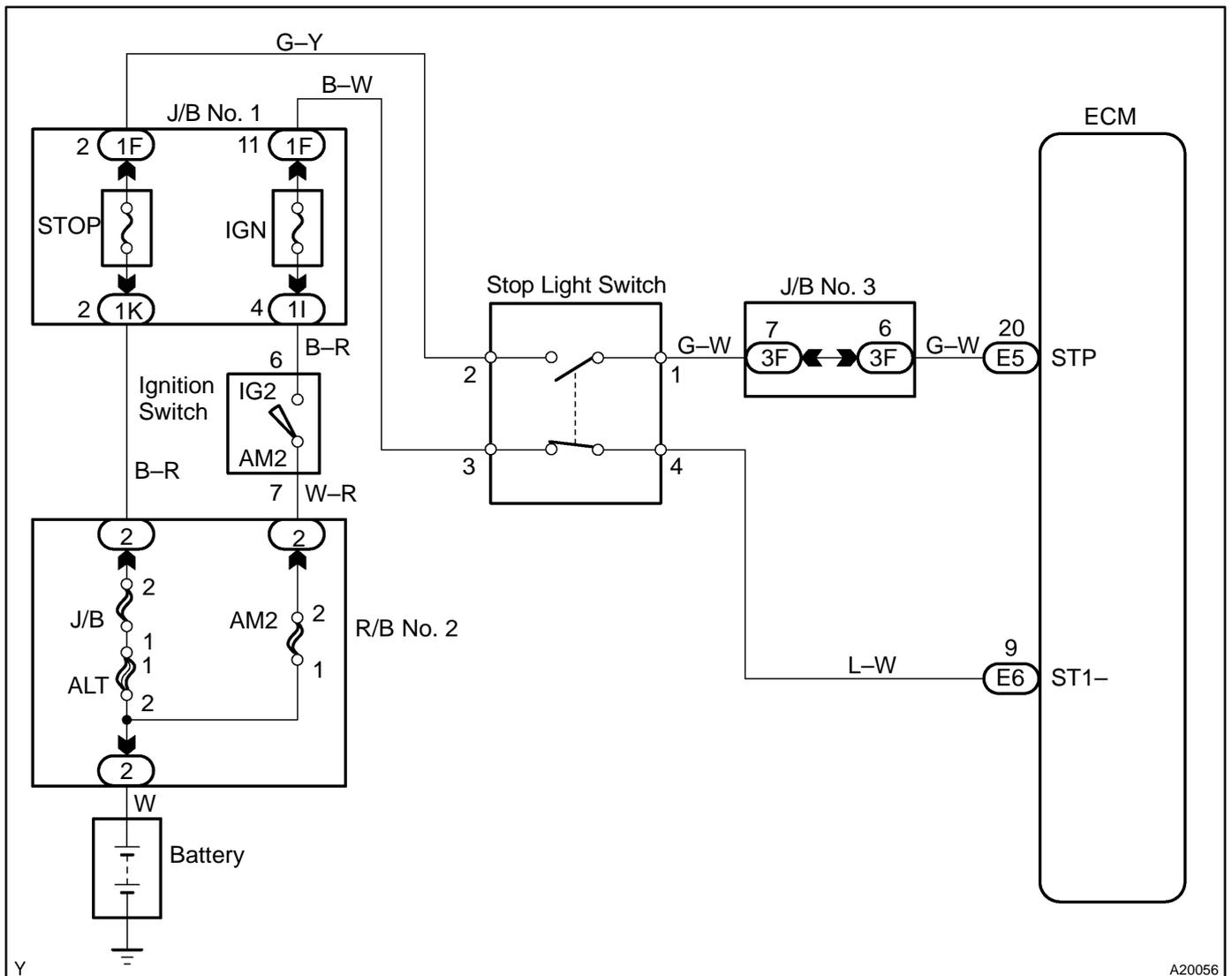
The cancel condition occurs as battery positive voltage is supplied to terminal STP.

When the brake is on, battery positive voltage is normally applied through the STOP fuse and the stop light switch to terminal STP of the ECM, and the ECM turns the cruise control OFF.

If the harness connected to terminal STP has an open circuit, terminal STP will have battery positive voltage and the cruise control will be turned OFF.

DTC No.	DTC Detection Condition	Trouble Area
P0571/52	Stop light switch does not turn off even once the vehicle is driven (2 trip detection logic)	<ul style="list-style-type: none"> • Short in stop light switch signal circuit • Stop light switch • ECM

WIRING DIAGRAM



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A20056

INSPECTION PROCEDURE

HINT:

Read freeze frame data using the hand-held tester or the OBD II scan tool, as freeze frame data records the engine conditions when a 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.

Hand-held tester:

1	Check stop light switch using hand-held tester.
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PREPARATION:

Connect the hand-held tester to the DLC3.

- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch ON and push the hand-held tester main SW ON.

CHECK:

Select the item "STOP LIGHT SW" in the DATA LIST and read its value displayed.

OK:

Brake pedal depressed: ON

Brake pedal released: OFF

OK

Proceed to next circuit inspection shown in problem symptom table (See page [DI-700](#)).

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2	Check operation of stop light.
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PREPARATION:

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

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Check stop light circuit (See page [BE-29](#)).

OK

3	Connect hand-held tester, and read valve of stop light switch signal
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PREPARATION:

- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch ON and push the hand-held tester main switch ON.
- (c) Select the item "DIAGNOSIS/ENHANCED OBD II/DATA LIST/ALL/STOP LIGHT SW".

CHECK:

Read the STP signal on the hand-held tester.

OK:

Brake Pedal	STP Signal	ST1- Terminal Voltage
Depressed	ON	Below 1.5 V
Released	OFF	7.5 – 14 V

OK

Check for intermittent problems
(See page [DI-218](#)).

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4	Check for harness and connector between ECM and stop light switch (See page IN-28).
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Repair or replace harness or connector.

OK

Check and replace ECM (See page [IN-28](#)).

OBD II scan tool (excluding hand-held tester):

1	Check operation of stop light.
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PREPARATION:

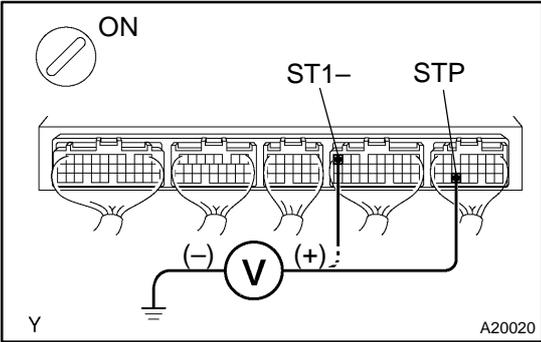
Check if the stop lights come on and go off normally when the brake pedal is depressed and released.

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Check stop light circuit (See page [BE-29](#)).

OK

2 Connect hand-held tester, and read valve of stop light switch signal



PREPARATION:

- (a) Remove the glove compartment.
- (b) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminals STP, ST1- of the ECM connector.

OK:

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

OK Check for intermittent problems (See page [DI-218](#)).

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3 Check for harness and connector between ECM and stop light switch (See page [IN-28](#)).

NG Repair or replace harness or connector.

OK

Check and replace ECM (See page [IN-28](#)).