

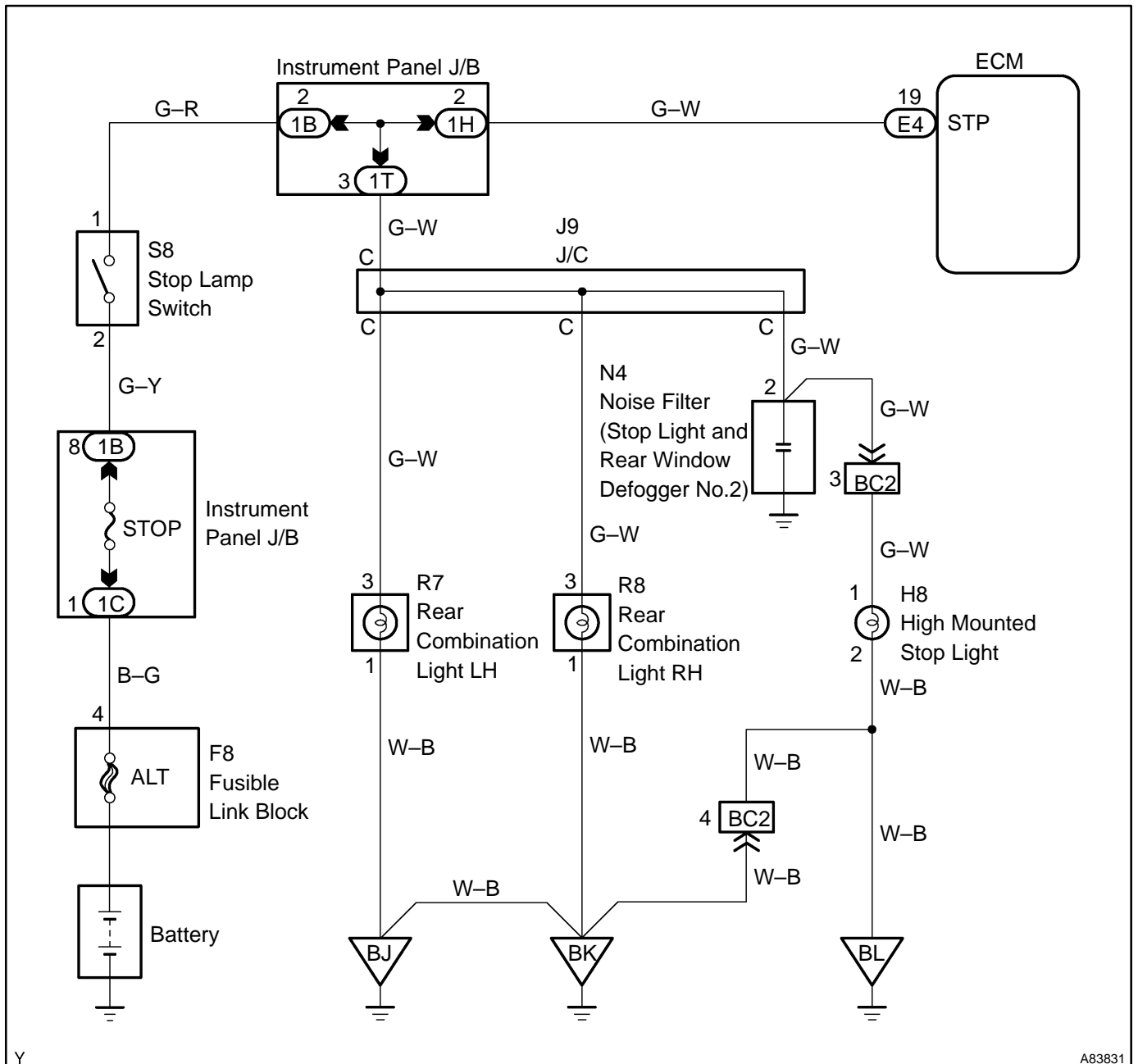
# STOP LIGHT SWITCH CIRCUIT

## CIRCUIT DESCRIPTION

This signal is used to detect that the brakes have been applied. The STP signal voltage is the same as the one 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.).

## WIRING DIAGRAM



Y

A83831

## INSPECTION PROCEDURE

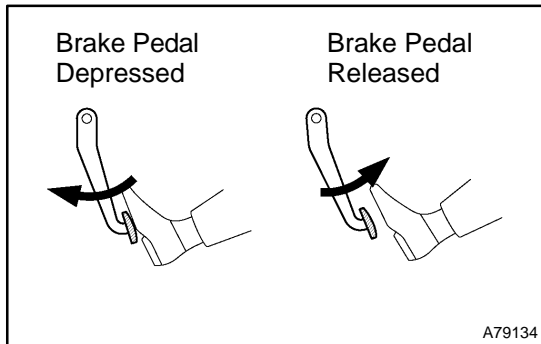
### 1 CHECK OPERATION OF STOP LIGHT

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

**NG** → REPAIR OR REPLACE STOP LAMP SWITCH CIRCUIT

**OK**

### 2 READ VALUE OF HAND-HELD TESTER OR OBD II SCAN TOOL(STP SIGNAL AND ST1- VOLTAGE)



- (a) Turn the ignition switch ON.
- (b) Select the item "DIAGNOSIS / ENHANCED OBD II / DATA LIST / ALL / STOP LIGHT SW" and read its value displayed on the hand-held tester or OBD II scan tool.

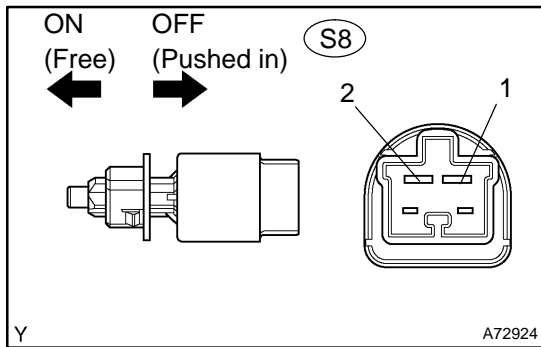
**Standard:**

Brake Pedal	Specified Condition
Depressed	STP Signal ON
Released	STP Signal OFF

**OK** → CHECK FOR INTERMITTENT PROBLEMS (See page 05-41)

**NG**

### 3 INSPECT STOP LAMP SWITCH ASSY



- (a) Measure the resistance between terminals when the switch is ON and OFF.

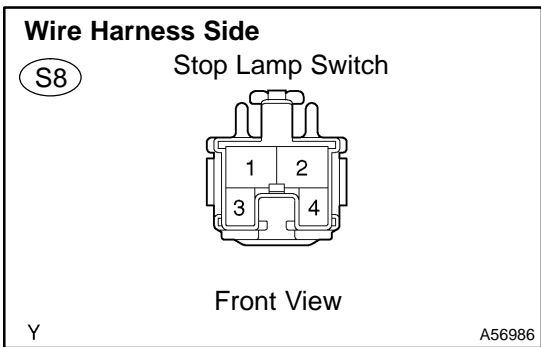
**Standard:**

Switch Position	Tester Connection	Specified Condition
ON (Free)	1 - 2	Below 1 Ω
OFF (Pushed in)		10 kΩ or higher

**NG** → REPLACE STOP LAMP SWITCH ASSY

**OK**

**4 CHECK HARNESS AND CONNECTOR(STOP LAMP SWITCH - ECM)**



- (a) Disconnect the S8 stop lamp switch connector.
- (b) Disconnect the E4 ECM connector.
- (c) Measure the resistance between the wire harness side connectors.

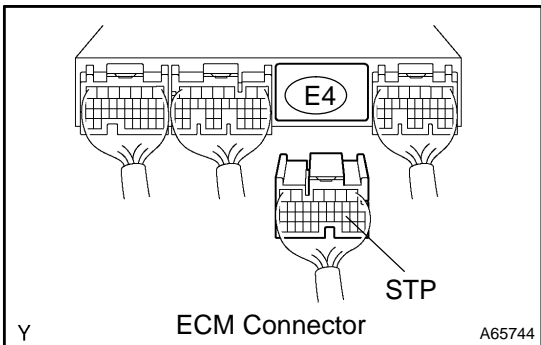
**Standard (Check for open):**

Tester Connection	Specified Condition
Stop lamp switch (S8-1) - STP (E4-19)	Below 1 Ω

**Standard (Check for short):**

Tester Connection	Specified Condition
Stop lamp switch (S8-1) or STP (E4-19) - Body ground	10 kΩ or higher

- (d) Reconnect the stop lamp switch connector.
- (e) Reconnect the ECM connector.



**NG** **REPAIR OR REPLACE HARNESS OR CONNECTOR**

**OK**

**REPLACE ECM (See page 10-17)**