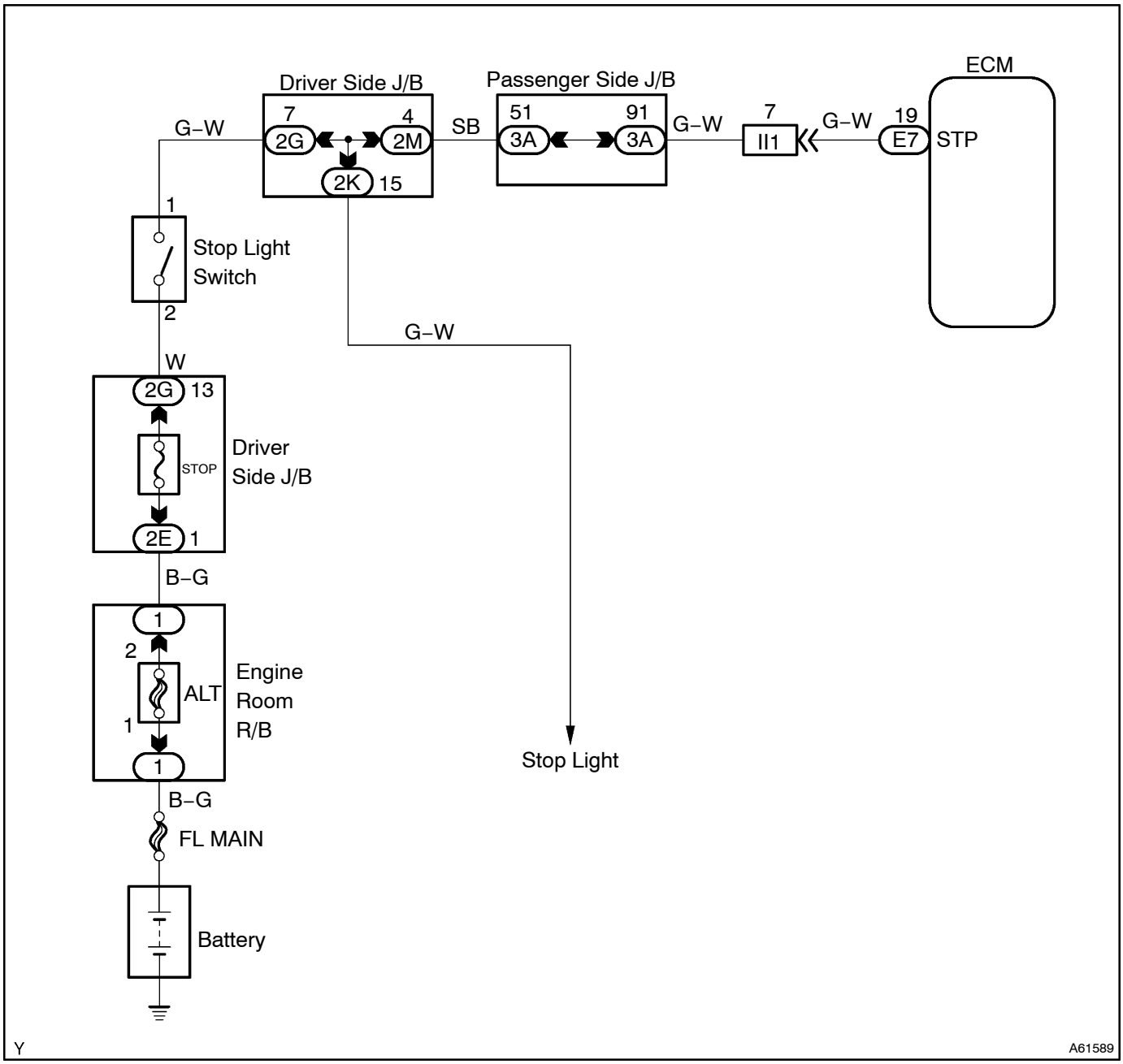
DTC P1520/51 STOP LIGHT SWITCH MALFUNCTION

CIRCUIT DESCRIPTION

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

DTC No.	DTC Detecting Condition	Trouble Area
P1520/51	Stop light switch does not turn off when repeating driving at 30 km or more 10 time or more after depressing brake (2 trip detection logic)	• Short in stop light switch signal circuit • Stop light switch • ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

Read freeze frame data using hand–held tester. Because freeze frame 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

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

OK

2 CHECK STP SIGNAL

(a) Turn the ignition switch ON and push the hand–held tester main switch ON.

(b) Read the STP signal on the hand–held tester.

Result:

Brake Pedal	STP Signal
Depressed	ON
Released	OFF

OK → **CHECK FOR INTERMITTENT PROBLEMS**

NG

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

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

CHECK AND REPLACE ECM