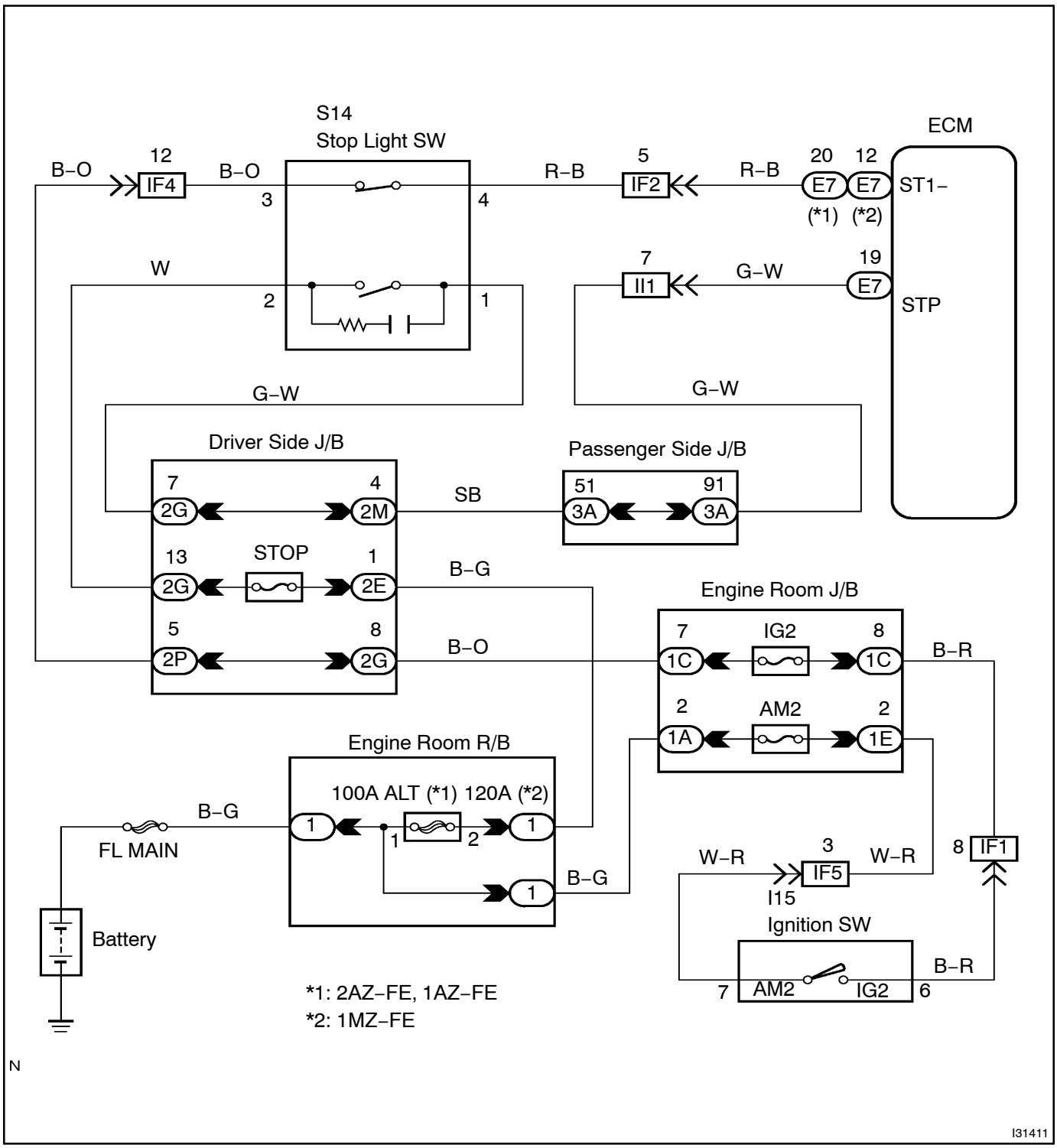
DTC P1520/52 STOP LIGHT SWITCH CIRCUIT

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 cancel functions normally, even if there is a malfunction in the stop light signal circuit.
The cancel condition are: Battery positive voltage at terminal STP.
When the brake is depressed, battery positive voltage normally is applied to stop light switch to terminal STP of the ECM through the STOP fuse, and the ECM turns the cruise control off.
If the harness connected to terminal STP has an open circuit, terminal STP will have battery voltage and the cruise control will be turned off.

DTC No.	Detection Item	Trouble Area
P1520/52	Stop light switch circuit.	• Stop light switch • Wire harness or connector between ECM and stop light switch circuit • ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

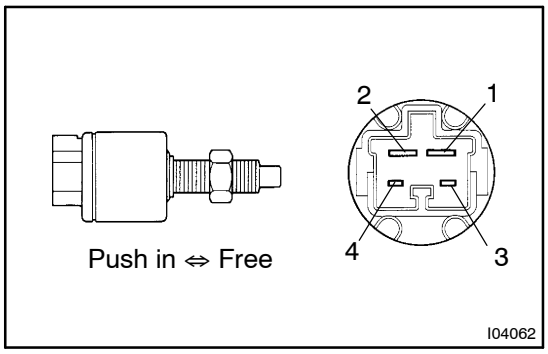
1	READ VALUE OF HAND–HELD TESTER

(a) Connect the hand–held tester to the DLC3.
(b) Turn the ignition switch ON and push the hand–held tester main SW ON.
(c) Select the item "STP LIGHT SW" in the DATA LIST and read its value displayed on the hand–held tester.
OK:
Brake pedal depressed : ON
Brake pedal released : OFF

OK → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOM TABLE (See page 05–1298)**

NG

2	INSPECT STOP LAMP SWITCH ASSY



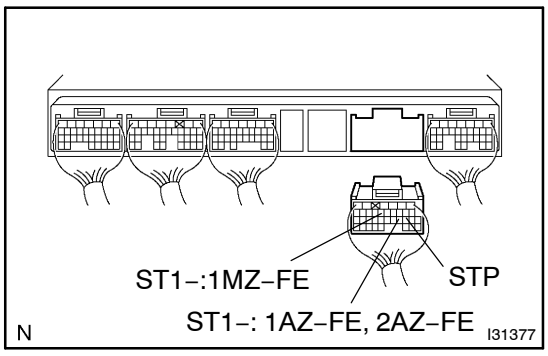
(a) Disconnect the stop light switch connector.

Switch position	Tester connection	Specified condition
Switch pin free	1–2	Continuity
Switch pin free	3–4	No nontinuity
switch pin pushed in	1–2	No continuity
switch pin pushed in	3–4	Continuity

NG → **REPLACE STOP LAMP SWITCH ASSY**

OK

3	CHECK HARNESS AND CONNECTOR(STP, ST1–)



(a) Remove the ECM with connectors still connected.
(b) Measure voltage between terminal STP of ECM connector and body ground, when the brake pedal is depressed and released.

Depressed	10 – 14 V
Released	Below 1 V

(c) Turn ignition switch ON.
(d) Measure voltage between terminal ST1– of ECM connector and body ground, when the brake pedal is depressed and released.

Depressed	Below 1 V
Released	10 – 14 V

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

OK →

CHECK AND REPLACE ECM(See page 01–31)