DI9TF–01

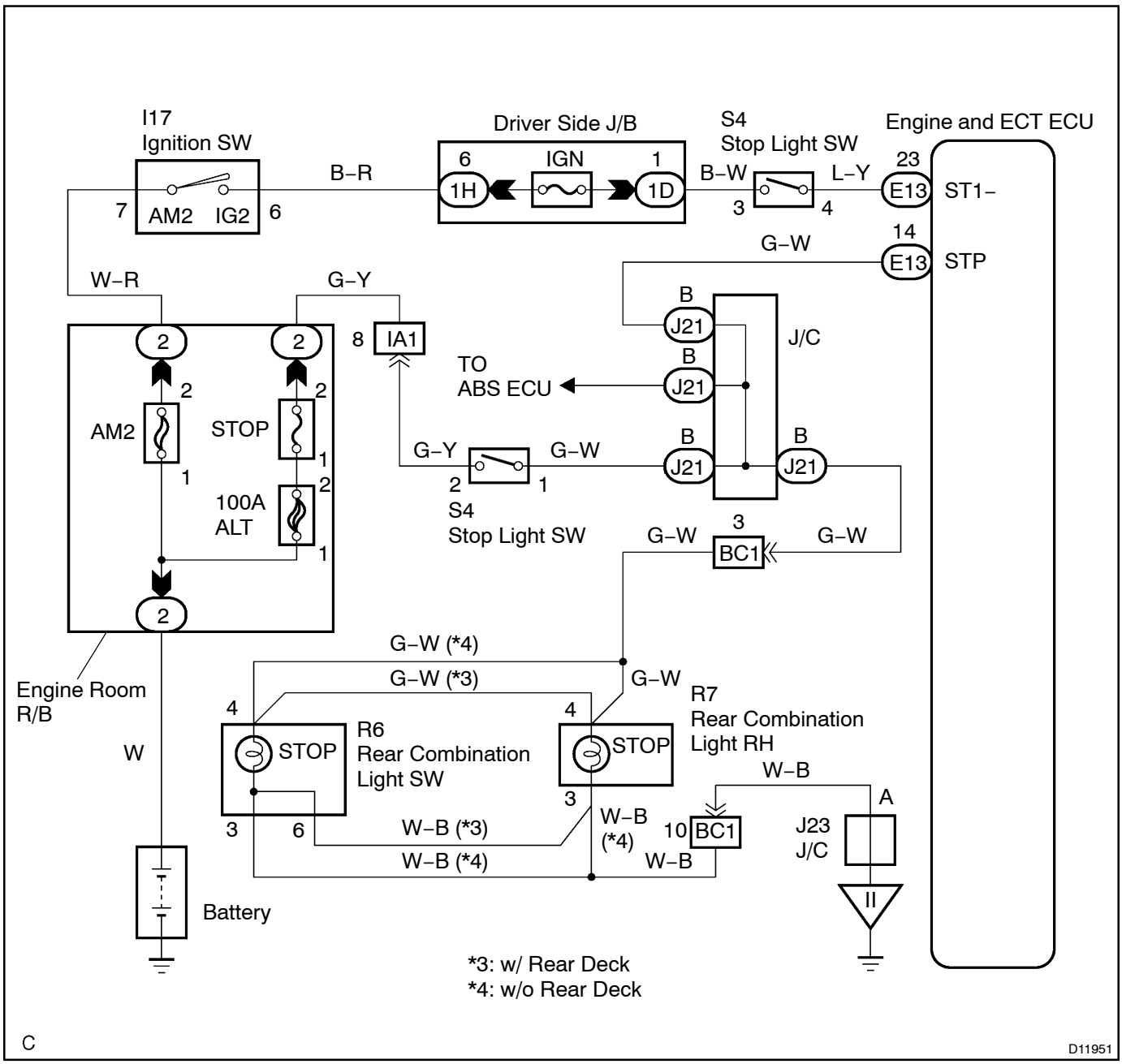
DTC	P1520/51	Stop Light Switch Circuit Malfunction

CIRCUIT DESCRIPTION

In this system, the signal of the stop light switch is used for the judgement to detect abnormality in the acceleration system.
The stop light switch has a duplex system (STP and ST1–).
That is to memorize the abnormality when the signals at the time of depressing and non–depressing the brake pedal are detected simultaneously.

DTC No.	DTC Detecting Condition	Trouble Area
P1520/51	When STP (without depressing the brake pedal) and ST1– (with depressing the brake pedal) signals continue for longer than 0.5 seconds with the ignition switch ON.	• Short in stop light switch signal circuit • Stop light switch • Engine & ECT ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Check operation of stop light.**

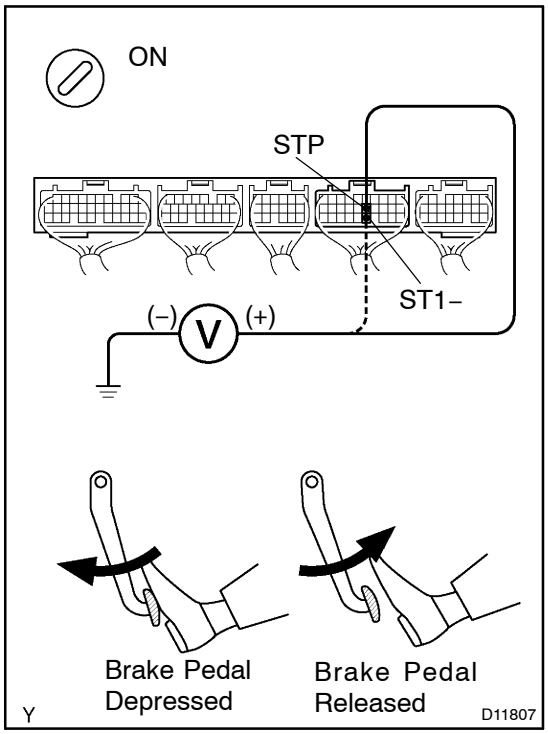
CHECK:

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

NG → **Check and repair stop light circuit.**

OK

2	Check STP and ST1– signals.



When using hand–held tester:

PREPARATION:

(a) Connect the hand–held tester to the DLC3.

(b) Turn the ignition switch ON and turn the hand–held tester main switch ON.

CHECK:

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

OK:

Brake pedal is depressed: STP....ON
Brake pedal is released: STP....OFF

(b) Read the ST1– signal on the hand–held tester.

OK:

Brake pedal is depressed: ST1–....OFF
Brake pedal is released: ST1–....ON

When not using hand–held tester:

PREPARATION:

Turn the ignition switch ON.

CHECK:

(a) Check voltage between terminal STP of the Engine & ECT ECU and body ground.

OK:

Brake pedal	Voltage
Depressed	7.5 – 14 V
Released	Below 1.5 V

(b) Check voltage between terminal ST1– of the Engine & ECT ECU and body ground.

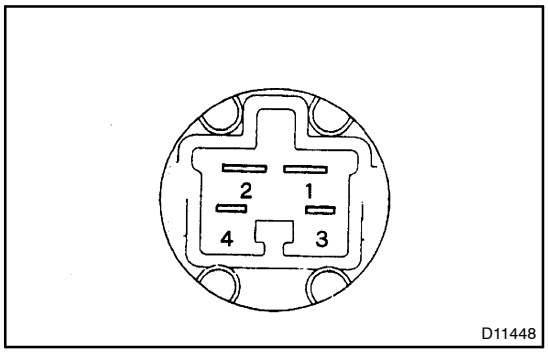
OK:

Brake pedal	Voltage
Depressed	Below 1.5 V
Released	7.5 – 14 V

OK → **Proceed to next circuit inspection shown on problem symptoms table (See page DI–17).**

NG

3	**Inspect stop light switch.**



PREPARATION:

(a) Disconnect the stop light switch connector.

(b) Measure the resistance between terminals.

OK:

Terminal	Stop light switch	Condition
1 – 2	ON (Brake pedal depressed)	Continuity
1 – 2	OFF (Brake pedal released)	No continuity
3 – 4	ON (Brake pedal depressed)	No continuity
3 – 4	OFF (Brake pedal released)	Continuity

NG → **Replace stop light switch.**

OK ↓

4	**Check harness and connector between Engine & ECT ECU and stop light switch (See page IN–26).**

NG → **Repair or replace harness or connector.**

OK ↓

Check and replace Engine & ECT ECU (See page IN–26).