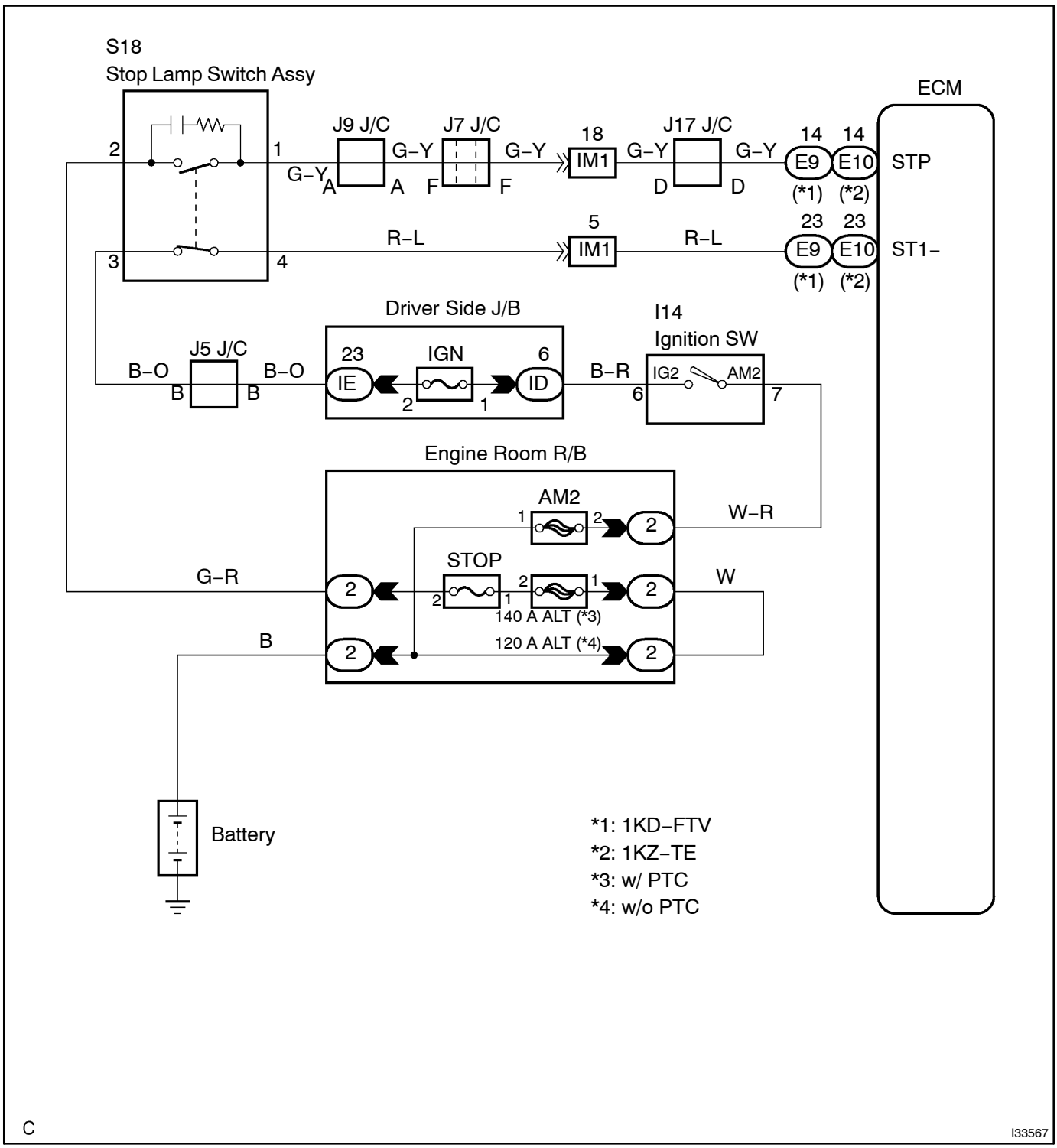
DTC	52	STOP LIGHT SWITCH CIRCUIT MALFUNCTION

CIRCUIT DESCRIPTION

When the brake pedal is depressed, the stop lamp switch assy 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 lamp 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 lamp switch assy 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
52	Stop lamp switch assy does not turn off even once the vehicle is driven	• Stop lamp switch assy • Stop lamp switch assy circuit • ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

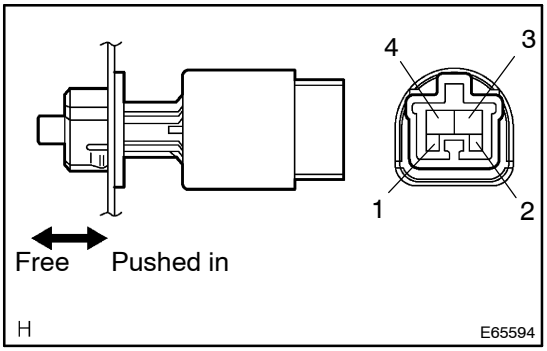
1 INSPECT STOP LAMP SWITCH OPERATION

(a) Check that the stop lamp lights up when brake pedal is depressed and turns OFF when the brake pedal is released.

NG > INSPECT STOP LAMP SWITCH CIRCUIT

OK

2 INSPECT STOP LAMP SWITCH ASSY



(a) Disconnect the stop lamp switch assy connector.
(b) Measure the continuity between each terminal of the stop lamp switch assy.
Standard:

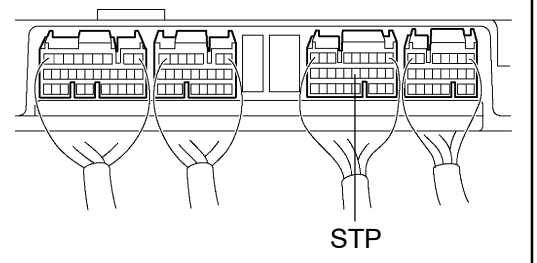
Switch condition	Tester connection	Specification
Switch pin free	1 – 2	No continuity
Switch pin free	3 – 4	Continuity
Switch pin pushed in	1 – 2	Continuity
Switch pin pushed in	3 – 4	No continuity

NG > REPLACE STOP LAMP SWITCH ASSY

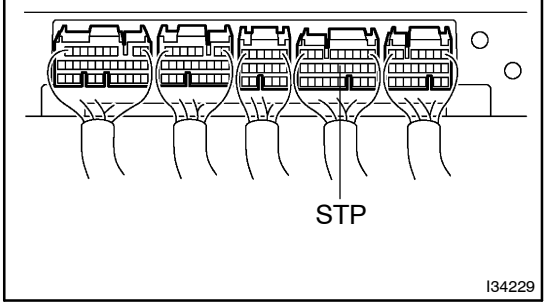
OK

3 INSPECT ECM

1KZ–TE:



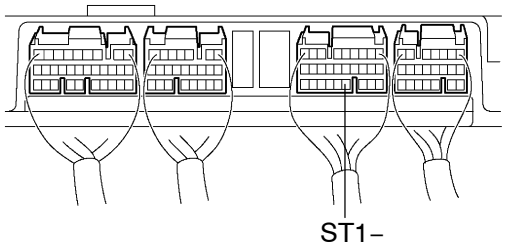
1KD–FTV:



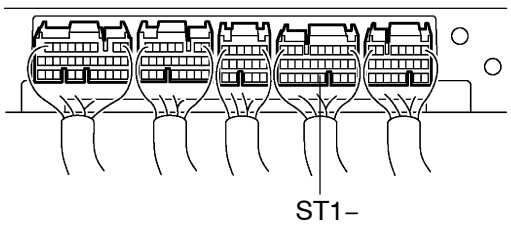
(a) Remove the ECM with connectors still connected.
(b) Turn the ignition switch to ON.
(c) Measure voltage between terminal STP of ECM connector and body ground when the brake pedal is depressed and released.
Standard:

Pedal condition	Voltage (V)
Depressed	10 – 14
Released	Below 1

1KZ–TE:



1KD–FTV:



I34229

(d) Measure voltage between terminal ST1– of ECM connector and body ground when the brake pedal is depressed and released.

Standard:

Pedal condition	Voltage (V)
Depressed	Below 1
Released	10 – 14

OK → **CHECK AND REPLACE ECM (See page 01–36)**

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR