

DTC**C1380/64****Stop Light Control Relay Malfunction****DESCRIPTION**

The skid control ECU inputs the stop light switch signal and detects the status of the brake operation.

DTC No.	DTC Detecting Conditions	Trouble Areas
C1380/64	Either of following conditions met when IG1 terminal voltage between 10 V and 14 V: <ul style="list-style-type: none"> Despite STPO (stop light driving output) being on, no signal input to STP terminal for 5 seconds or more Despite STPO being off, input signals of STP and STP2 do not match 	<ul style="list-style-type: none"> Stop light switch assembly Stop light switch circuit STOP LP CTRL relay Master cylinder solenoid (skid control ECU)

BC**WIRING DIAGRAM**

See page [BC-111](#).

INSPECTION PROCEDURE**NOTICE:**

When replacing the master cylinder solenoid, perform zero point calibration (See page [BC-24](#)).

1**CHECK STOP LIGHT SWITCH OPERATION**

- (a) Check that the stop lights come on when the brake pedal is depressed and go off when the brake pedal is released.

OK

Pedal Condition	Illumination Condition
Brake pedal depressed	ON
Brake pedal released	OFF

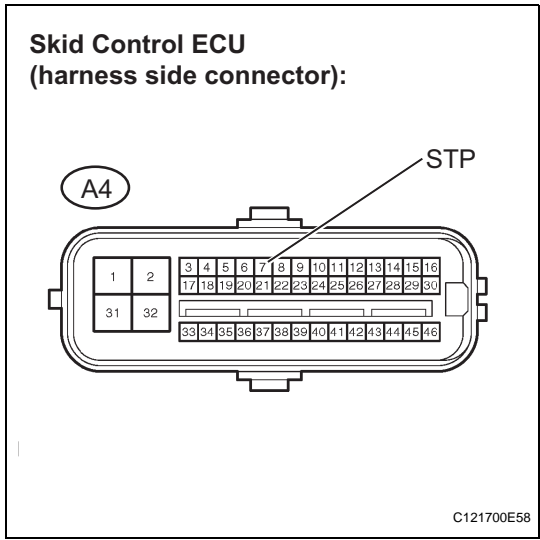
HINT:

Check the stop light bulbs as they may have burnt out.

NG**CHECK STOP LIGHT SWITCH CIRCUIT****OK**

BC

2 INSPECT SKID CONTROL ECU TERMINAL VOLTAGE (STP)



- (a) Disconnect the skid control ECU connector.
- (b) Measure the voltage.

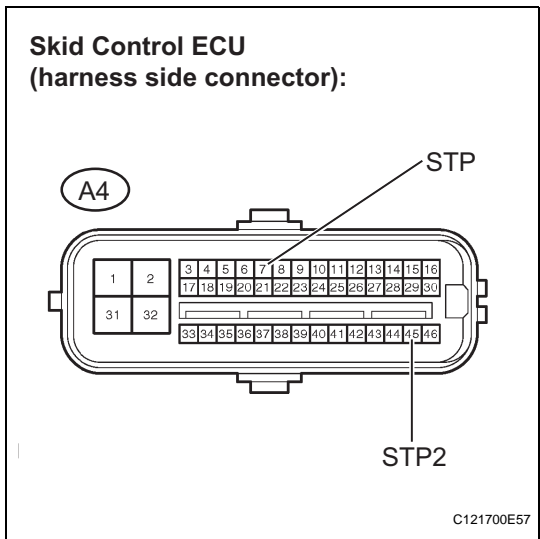
Standard voltage

Tester Connection	Switch condition	Specified Condition
A4-7 (STP) - Body ground	Brake pedal depressed	8 to 14 V
A4-7 (STP) - Body ground	Brake pedal released	Below 1.5 V

NG REPAIR OR REPLACE HARNESS OR CONNECTOR (STP CIRCUIT)

OK

3 INSPECT SKID CONTROL ECU TERMINAL VOLTAGE (STP2)



- (a) Disconnect the skid control ECU connector.
- (b) Turn the ignition switch on.
- (c) Measure the resistance.

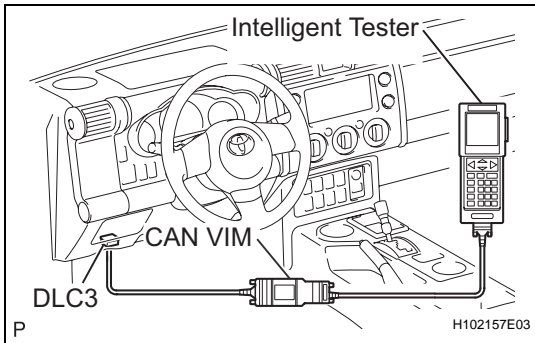
Standard resistance

Tester Connection	Specified Condition
A4-7 (STP) - A4-45 (STP2)	Below 1 Ω

NG REPAIR OR REPLACE HARNESS OR CONNECTOR (STP2 CIRCUIT)

OK

4 PERFORM ACTIVE TEST USING INTELLIGENT TESTER (STOP LIGHT RELAY)



- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch on.
- (c) Turn the intelligent tester on.
- (d) Select the ACTIVE TEST mode on the intelligent tester.

ACTIVE TEST: ABS/VSC

Item	Vehicle Condition / Test Details	Diagnostic Note
STP LIGHT RELAY	Turns stop light relay ON / OFF	Observe stop lights

- (e) Check that the stop lights turn on and off on the rear combination light when using the intelligent tester.

OK:

The stop lights turn on and off according to the intelligent tester operations.

NG → **Go to step 6**

OK

5 RECONFIRM DTC

- (a) Clear the DTC (See page BC-45).
- (b) Check if the same DTC is recorded (See page BC-45).

Result

Result	Proceed to
DTC output	A
DTC not output	B

B → **END**

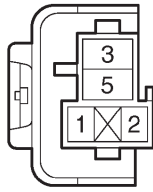
A

REPLACE MASTER CYLINDER SOLENOID

6 CHECK STOP LP CTRL RELAY

BC

STOP LP CTRL relay terminal



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- (a) Disconnect the STOP LP CTRL relay.
- (b) Turn the ignition switch on.
- (c) Measure the voltage.

Standard voltage

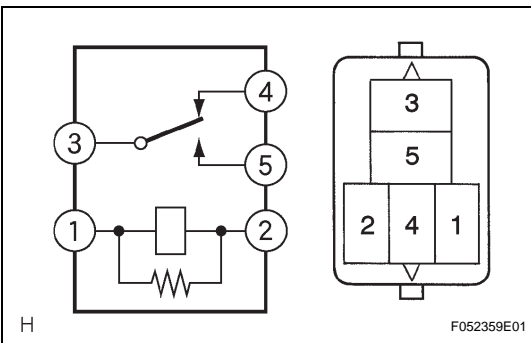
Tester Connection	Condition	Specified Condition
Terminal 5 - Body ground	Always	8 to 14 V
Terminal 1 - Body ground	Always	8 to 14 V

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

7 INSPECT STOP CTRL LP RELAY



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- (a) Remove the STOP LP CTRL relay from the engine room R/B No. 2.
- (b) Measure the resistance.

Standard resistance

Tester Connection	Specified Condition
3 - 4	Below 1 Ω
3 - 5	10 kΩ or higher

- (c) Measure the resistance.

Standard resistance

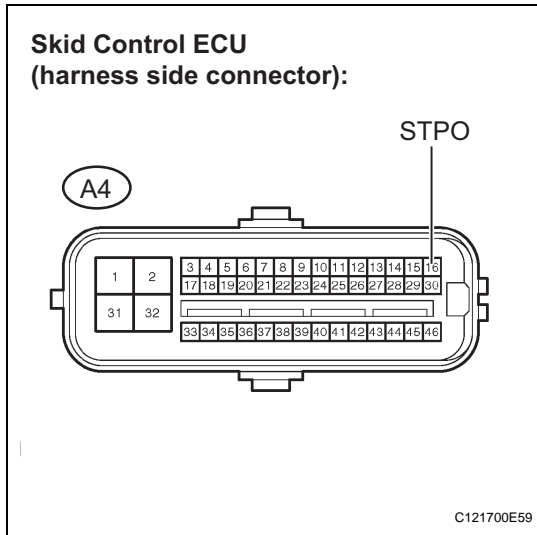
Tester Connection	Condition	Specified Condition
3 - 4	Battery voltage applied between terminals 1 (+) and 2 (-)	10 kΩ or higher
3 - 5	Battery voltage applied between terminals 1 (+) and 2 (-)	Below 1 Ω

NG

REPLACE STOP LP CTRL RELAY

OK

8 INSPECT SKID CONTROL ECU TERMINAL VOLTAGE (STPO)



- (a) Disconnect the skid control ECU connector.
- (b) Turn the ignition switch on.
- (c) Measure the voltage.

Standard voltage

Tester Connection	Condition	Specified Condition
A4-16 (STPO) - Body ground	Brake pedal depressed	11 to 14 V

NG REPAIR OR REPLACE HARNESS OR CONNECTOR (STPO CIRCUIT)

OK

9 RECONFIRM DTC

- (a) Clear the DTC (See page BC-45).
- (b) Check if the same DTC is recorded (See page BC-45).

Result

Result	Proceed to
DTC output	A
DTC not output	B

B END

A

REPLACE MASTER CYLINDER SOLENOID