DTC	C1253/53	HYDRO–BOOSTER PUMP MOTOR RELAY MALFUNCTION

CIRCUIT DESCRIPTION

Refer to DTC C1251/51 on page 05–836.

DTC No.	DTC Detection Condition	Trouble Area
C1253/53	Motor system circuit (motor input circuit).	• Hydraulic brake booster pump motor • Hydraulic brake booster pump motor circuit

WIRING DIAGRAM

Refer to DTC C1251/51 on page 05–836.

INSPECTION PROCEDURE

NOTICE:

When replacing the hydraulic brake booster (master cylinder solenoid), perform zero point calibration (see page 05–744).

HINT:

Start the inspection from step 1 when using the intelligent tester II and start from step 3 when not using the intelligent tester II.

1	PERFORM ACTIVE TEST BY INTELLIGENT TESTER II (H/B MOTOR RELAY)

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the ignition switch to the ON position and push the intelligent tester II main switch ON.
(c) Start the engine.
(d) Select ”ACTIVE TEST” mode on the intelligent tester II.

Item	Vehicle Condition/Test Details	Diagnostic Note
ABS Motor Relay	Turns H/B motor relay ON/OFF	Operation sound of motor can be heard

(e) Check operation sound of the H/B motor individually when operating it with the intelligent tester II.
OK:
The operation sound of the H/B motor can be heard.

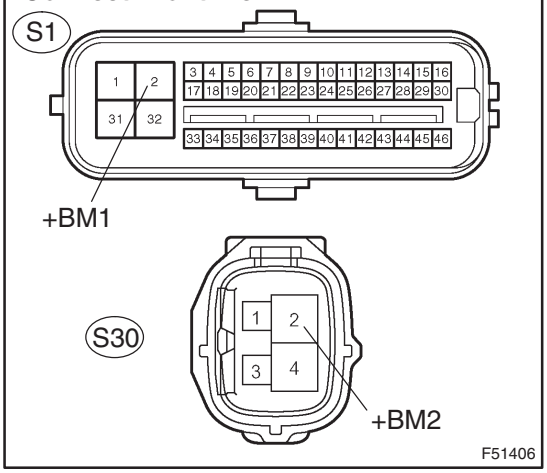
NG → **Go to step 2**

OK

Go to step 4

2 INSPECT SKID CONTROL ECU (+BM TERMINAL VOLTAGE)

Skid Control ECU (Wire Harness Side)
Connect Front View:



(a) Disconnect the skid control ECU connectors.
(b) Turn the ignition switch to the ON position.
(c) Measure the voltage according to the value(s) in the table below.

Standard:

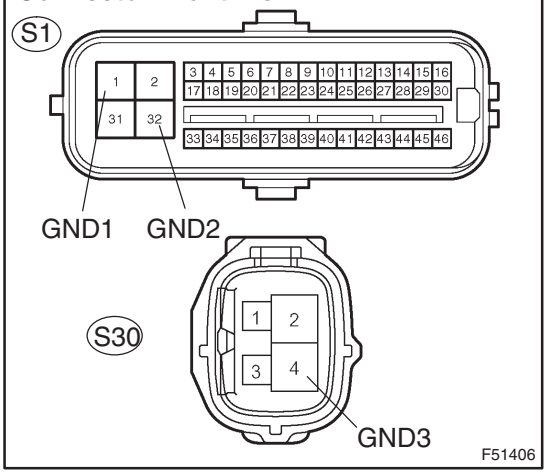
Tester Connection	Specified Condition
S1–2 (+BM1) – Body ground	10 to 14 V
S30–2 (+BM2) – Body ground	10 to 14 V

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (+BM CIRCUIT)**

OK

3 INSPECT SKID CONTROL ECU (GND TERMINAL CONTINUITY)

Skid Control ECU (Wire Harness Side)
Connector Front View:



(a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
S1–1 (GND1) – Body ground	Below 1 Ω
S1–32 (GND2) – Body ground	Below 1 Ω
S30–4 (GND3) – Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (GND CIRCUIT)**

OK

4	RECONFIRM DTC

(a) Clear the DTC (see page 05–766).
(b) Turn the ignition switch off.
(c) Depress the brake pedal more than 20 times.
(d) Turn the ignition switch to the ON position.
(e) Wait until the pump motor stops.
(f) Depress the brake pedal several times until the pump motor turns on.
(g) Wait until the pump stops.
(h) Repeat (f) and (g) 3 more times.
(i) Check if the same DTC is detected (see page 05–766).

HINT:
Reinstall the sensors, connectors, etc. and restore the previous vehicle conditions before rechecking for DTCs.

Result:

DTC is output	A
DTC is not output	B

B → END

A

REPLACE HYDRAULIC BRAKE BOOSTER (SEE PAGE 32–12)