

DTC**C1253/53****Hydro Booster Pump Motor Relay Malfunction****DESCRIPTION**

The motor relay (semiconductor relay) is built into the master cylinder solenoid and drives the pump motor based on a signal from the skid control ECU.

DTC No.	DTC Detecting Condition	Trouble Areas
C1253/53	Open in motor system circuit (motor input circuit)	<ul style="list-style-type: none">• Hydraulic brake booster pump motor• Hydraulic brake booster pump motor circuit

- (c) Turn the intelligent tester ON.
- (d) Select the ACTIVE TEST mode on the intelligent tester.

Item	Vehicle Condition / Test Details	Diagnostic Note
H/B MOT RELAY	Turns H/B motor relay ON / OFF	Operation of motor can be heard

- (e) Check for operation sound of the H/B motor when it is operated with the intelligent tester.

OK:

The operation sound of the H/B motor can be heard.

NG → **Go to step 3**

OK

2 RECONFIRM DTC

- (a) Clear the DTCs (See page BC-118).
- (b) Turn the ignition switch to 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 is turned on.
- (g) Wait until the pump stops.
- (h) Repeat (f) and (g) three times.
- (i) Check if the same DTCs are recorded.

Result	Proceed to
DTC output	A
DTC not output	B

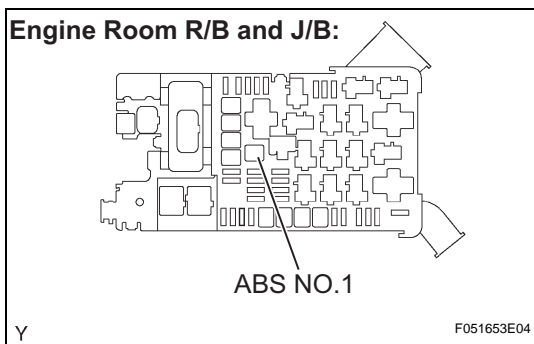
BC

B → **END**

A

REPLACE HYDRAULIC BRAKE BOOSTER

3 INSPECT FUSE (ABS NO. 1)

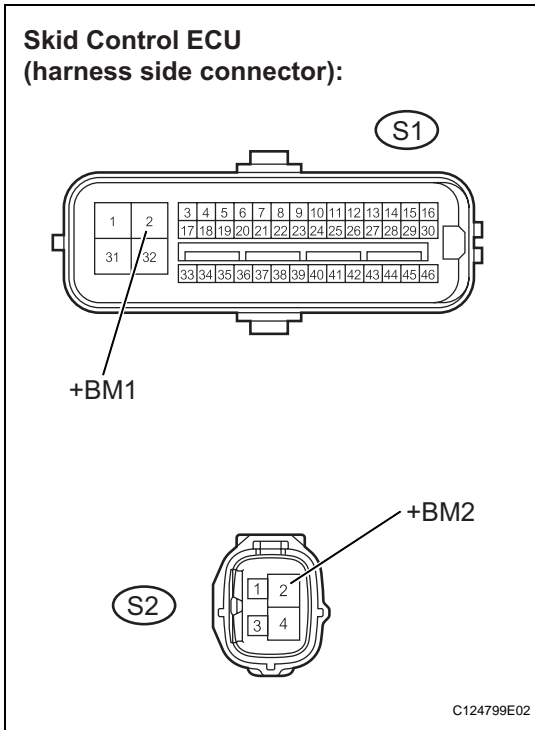


- (a) Remove the ABS NO. 1 fuse from the engine room R/B and J/B.
- (b) Measure the resistance of the ABS NO. 1 fuse.
Standard:
Below 1 Ω
- (c) Reinstall the ABS NO. 1.

NG → **CHECK FOR SHORTS IN ALL HARNESSSES AND CONNECTORS CONNECTED TO FUSE AND REPLACE FUSE**

OK

4 INSPECT SKID CONTROL ECU TERMINAL VOLTAGE (+BM, +BM2 TERMINAL)



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

Standard Voltage

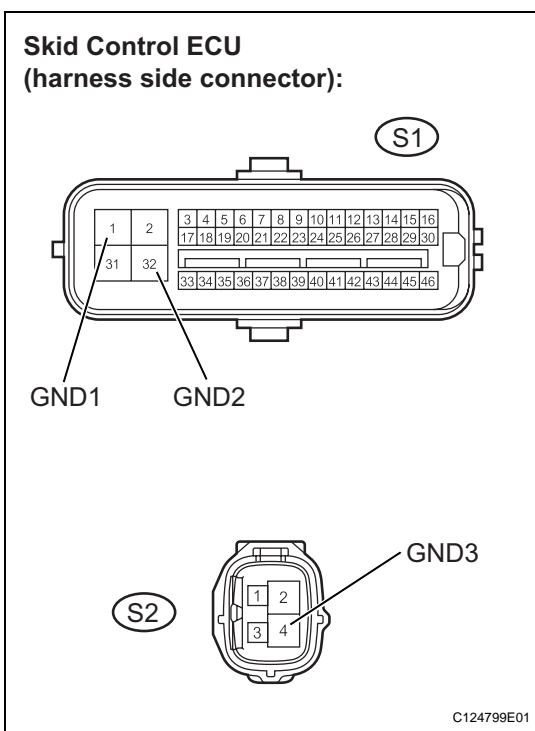
Tester Connection	Specified Condition
S1-2 (+BM1) - Body ground	10 to 14 V
S2-2 (+BM2) - Body ground	10 to 14 V

- (c) Reconnect the skid control ECU connectors.

NG REPAIR OR REPLACE HARNESS OR CONNECTOR (+BM1 AND +BM2 CIRCUIT)

OK

5 CHECK HARNESS AND CONNECTOR (SKID CONTROL ECU - BODY GROUND)



- (a) Disconnect the skid control ECU connectors.
- (b) Measure the resistance.

Standard Resistance

Tester Connection	Specified Condition
S1-1 (GND1) - Body ground	Below 1 Ω
S1-32 (GND2) - Body ground	Below 1 Ω
S2-4 (GND3) - Body ground	Below 1 Ω

- (c) Reconnect the skid control ECU connectors.

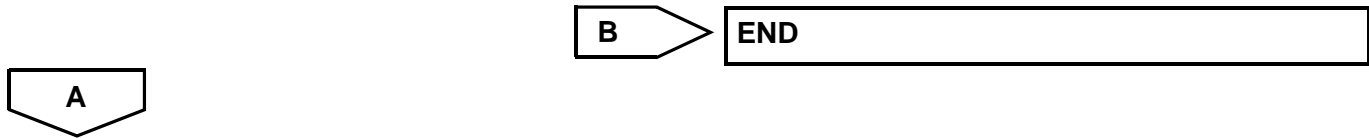
NG REPAIR OR REPLACE HARNESS OR CONNECTOR (GND CIRCUIT)

OK

6 RECONFIRM DTC

- (a) Clear the DTCs (See page BC-118).
- (b) Turn the ignition switch to 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 is turned on.
- (g) Wait until the pump stops.
- (h) Repeat (f) and (g) three times.
- (i) Check if the same DTCs are recorded.

Result	Proceed to
DTC output	A
DTC not output	B



REPLACE HYDRAULIC BRAKE BOOSTER