

<b>DTC</b>	<b>C1252/52</b>	<b>Brake Booster Pump Motor on Time Abnormally Long</b>
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**DESCRIPTION****BC**

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
C1252/52	Motor operates for 3 minutes or more.	<ul style="list-style-type: none"> <li>• Brake booster pump assembly</li> <li>• Hydraulic brake booster (accumulator pressure sensor)</li> <li>• Master cylinder solenoid (skid control ECU)</li> </ul>

**INSPECTION PROCEDURE****NOTICE:**

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

**HINT:**

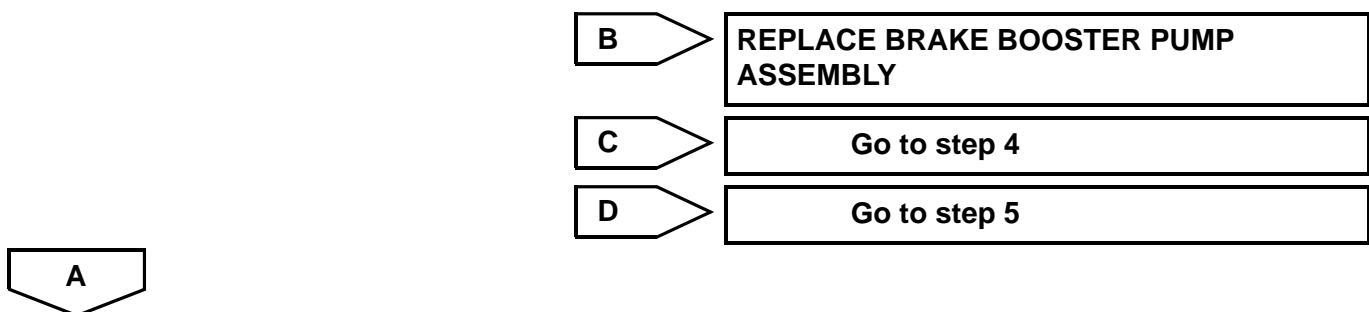
When C1253/53, C1254/54 or C1256/56 is output together with C1252/52, inspect and repair the trouble areas indicated by C1253/53, C1254/54 or C1256/56 first.

<b>1</b>	<b>CHECK HYDRAULIC BRAKE BOOSTER PUMP MOTOR OPERATION</b>
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- (a) Turn the ignition switch off.
- (b) Depress the brake pedal more than 20 times.
- (c) Turn the ignition switch on.
- (d) Check how the hydraulic brake booster pump motor operates.

**Result**

Result	Proceed to
Pump motor does not operate	A
Pump motor operates continuously (Does not stop)	B
Pump motor operates intermittently	C
Pump motor operates, then stops	D



<b>2</b>	<b>CHECK BRAKE PUMP MOTOR WIRE HARNESS CONNECTION (MT+ / MT-)</b>
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- (a) Using a screwdriver, remove the 2 plugs from the hydraulic brake booster (See page [BR-32](#)).
- (b) Check the tightening torque of 2 screws which fasten the wire harness connecting the hydraulic brake booster and brake booster pump (See page [BR-36](#)).

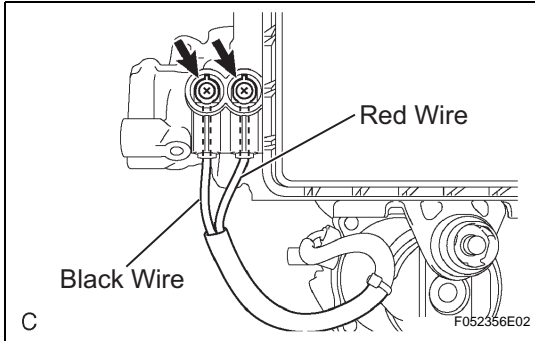
**Torque: 2.9 N\*m (30 kgf\*cm, 26 in.\*lbf)**

**NG** RETIGHTEN SCREWS

**OK**

**3 CHECK RESISTANCE OF PUMP MOTOR WIRE HARNESS (MT+/MT-)**

**BC**



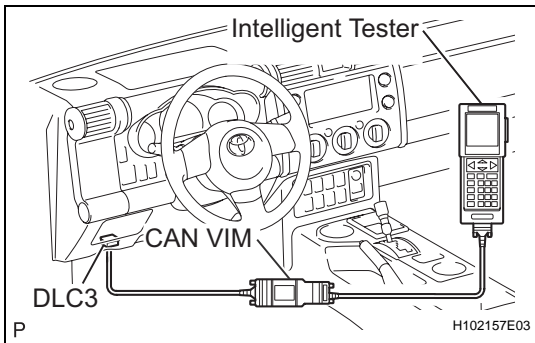
- (a) Using a screwdriver, remove the 2 screws and pull the wire harness from the hydraulic brake booster assembly.
- (b) Measure the resistance between the red wire (MT+) and black wire (MT-).

**Standard resistance:**  
**Below 2 Ω**

**NG** REPLACE BRAKE BOOSTER PUMP ASSEMBLY

**OK**

**4 READ VALUE OF DATA LIST (ACCUMULATOR PRESSURE SENSOR)**



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

**DATA LIST: ABS/VSC**

Item	Measurement Item / Range (Display)	Normal Condition	Diagnostic Note
ACC PRESS SENS	Accumulator pressure sensor reading / min.: 0 V, max.: 5 V	3.58 to 5 V	If value constant regardless of pump operation, accumulator pressure sensor malfunction suspected.

- (e) Check that the accumulator pressure sensor output is normal.

**Result**

Result	Proceed to
Output value varies within "Normal Condition" range	A
Output value does not reach "Normal Condition" range	B
Output value constant regardless of pump motor operation	C

**B** REPLACE BRAKE BOOSTER PUMP ASSEMBLY

**C** REPLACE HYDRAULIC BRAKE BOOSTER

A

**5 RECONFIRM DTC**

**BC**

- (a) Clear the DTC (See page [BC-45](#)).
- (b) Turn the ignition switch off.
- (c) Turn the ignition switch on.
- (d) Wait for more than 5 minutes.
- (e) Check if the same DTC is recorded (See page [BC-45](#)).

**Result**

Result	Proceed to
DTC output	A
DTC not output	B

B

**REPLACE BRAKE BOOSTER PUMP ASSEMBLY**

A

**REPLACE MASTER CYLINDER SOLENOID**