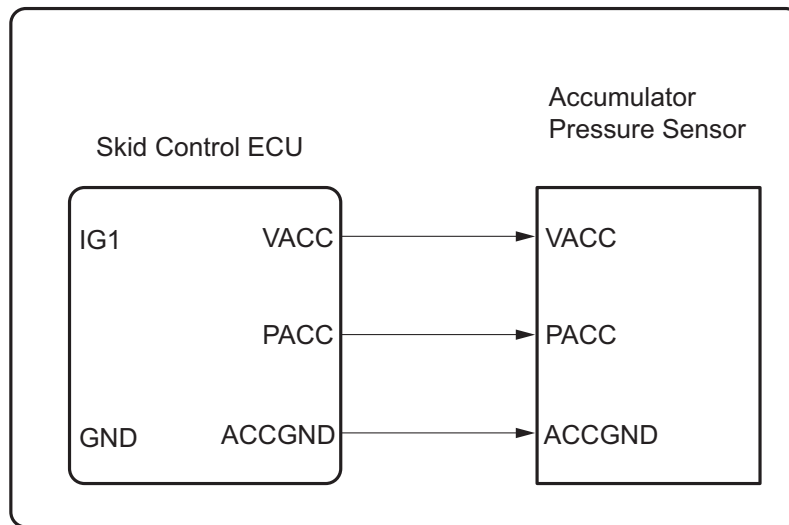


**DTC****C1254/54****Pressure Switch Circuit****DESCRIPTION**

The accumulator pressure sensor is connected to the skid control ECU in the master cylinder solenoid.

Master Cylinder Solenoid (Skid Control ECU with Actuator)



VACC: Accumulator Pressure Sensor Power Supply Output

PACC: Accumulator Pressure Sensor Signal Input

ACCGND: Accumulator Pressure Sensor Ground

Y

C124776E01

DTC No.	DTC Detecting Condition	Trouble Areas
C1254/54	Accumulator pressure sensor fault (Fluid pressure does not change when it should e.g. pump operates, brake pedal depressed/released).	<ul style="list-style-type: none"> <li>Hydraulic brake booster</li> <li>Accumulator pressure sensor</li> <li>Master cylinder pressure sensor</li> </ul>

**1****READ VALUE OF DATA LIST (ACCUMULATOR)**

- Connect the intelligent tester to the DLC3.
- Turn the ignition switch to OFF.

BC

- (c) Depress the brake pedal more than 20 times.
- (d) Turn the ignition switch to the ON position.
- (e) Select the DATA LIST mode on the intelligent tester.

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	-

- (f) Confirm whether the accumulator output voltage is normal.

Result	Proceed to
Output value normal	A
Output value not normal	B

B

**REPLACE MASTER CYLINDER SOLENOID**

A

**2****READ VALUE OF DATA LIST (MASTER CYLINDER PRESSURE SENSOR)**

- (a) Turn the ignition switch to OFF.
- (b) Depress the brake pedal more than 20 times.
- (c) Install a brake pedal effort gauge (SST), and bleed air.
- (d) Connect the intelligent tester to the DLC3.
- (e) Turn the ignition switch to the ON position.
- (f) Select the DATA LIST mode on the intelligent tester.

Item	Measurement Item / Range (Display)	Normal Condition	Diagnostic Note
MAS CYL PRS 1	Master cylinder pressure sensor 1 reading / min.: 0 V, max.: 5 V	0.3 to 1.9 V With pedal pressure of 49 N (5 kgf, 11 lbf)	Front brake pressure: 770 to 1280 kpa (7.9 to 13.1 kgf/cm <sup>2</sup> , 112 to 186 psi)

- (g) Check that the master cylinder output value is in the Normal Condition range.

**OK:**

**Master cylinder pressure sensor value is in the Normal Condition.**

NG

**REPLACE MASTER CYLINDER SOLENOID**

OK

**3****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 and release it.
- (g) Wait for 25 minutes.
- (h) Check if the same DTCs are recorded.

Result	Proceed to
DTC output	A

Result	Proceed to
DTC not output	B

**B****END****A****REPLACE MASTER CYLINDER SOLENOID**