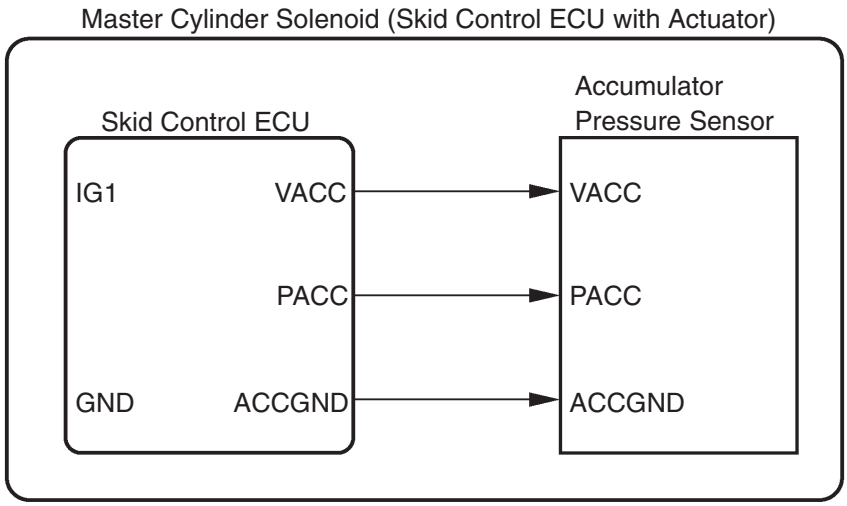
DTC	C1254/54	PRESSURE SENSOR OR SWITCH MALFUNCTION

CIRCUIT DESCRIPTION

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



VACC: Accumulator Pressure Sensor Power Supply Output
PACC: Accumulator Pressure Sensor Signal Input
ACCGND: Accumulator Pressure Sensor Ground

I45332

HINT:

If this code (C1254/54) is output, the following conditions will occur:

- The ABS, VSC TRC, and brake warning lights and slip and VSC OFF indicator lights will come on.
- The skid control buzzer sounds.
- Control of all systems other than EBD is canceled.

DTC No.	DTC Detection Condition	Trouble Area
C1254/54	Accumulator pressure sensor malfunction. (Fluid pressure does not change when the pump operates or when the brake is applied.)	• Hydraulic brake booster • Accumulator pressure sensor • Master cylinder pressure sensor

INSPECTION PROCEDURE

NOTICE:

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

1	READ VALUE OF INTELLIGENT TESTER II (ACCUMULATOR PRESSURE SENSOR)

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the ignition switch off.
(c) Depress the brake pedal more than 20 times.
(d) Turn the ignition switch to the ON position and push the intelligent tester II main switch ON.
(e) Select "DATA LIST" mode on the intelligent tester II.

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

(f) Check the accumulator output value.

Result:

Output value is within the "Normal Condition" range	A
Output value is out of the "Normal Condition" range	B
Output value is constant regardless of pump operation	B

B → **REPLACE MASTER CYLINDER SOLENOID (SEE PAGE 32–12)**

A

2	READ VALUE OF INTELLIGENT TESTER II (MASTER CYLINDER PRESSURE SENSOR)

(a) Turn the ignition switch off.
(b) Depress the brake pedal more than 20 times.
(c) Install the brake pedal effort gauge (SST), and bleed air.
SST 09709–29018
(d) Turn the ignition switch to the ON position and push the intelligent tester II main switch ON.
(e) Select "DATA LIST" mode on the intelligent tester II.

Item	Measurement Item/Range (Display)	Normal Condition	Diagnostic Note
Master Cylinder Sensor 1	Master cylinder pressure sensor 1 reading/min.: 0 V, max.: 5 V	0.3 to 1.8 V With pedal effort of 49 N (5 kgf, 11 in.·lbf)	Front brake pressure: 930 to 2130 kPa (9.5 to 21.7 kgf/cm^2, 135 to 309 psi)

(f) Check that the master cylinder pressure sensor's output value is normal.
OK:
Master cylinder pressure sensor value is normal.

NG → **REPLACE MASTER CYLINDER SOLENOID (SEE PAGE 32–12)**

OK

3	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 and release it.
(g) Wait for 25 minutes.
(h) Check if the same DTC is detected (see page 05–766).

Result:

DTC is output	A
DTC is not output	B

B → **END**

A →

REPLACE MASTER CYLINDER SOLENOID (SEE PAGE 32–12)