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Model Year Start: 2013	Model: Prius C	Prod Date Range: [12/2012 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: ELECTRONICALLY CONTROLLED BRAKE SYSTEM: C1365/54; Accumulator Pressure Sensor Malfunction; 2013 MY Prius C [12/2012 -]		

DTC	C1365/54	Accumulator Pressure Sensor Malfunction
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DESCRIPTION

The accumulator pressure sensor is built into the brake actuator (brake booster with master cylinder assembly).

The skid control ECU detects the accumulator pressure from the data sent from the accumulator pressure sensor, and then starts and stops the pump motor by operating the motor relay.

This DTC may be stored if the accumulator pressure drops due to frequent braking (this is not a malfunction).

DTC NO.	INF CODE	DTC DETECTION CONDITION	TROUBLE AREA
C1365/54	331	Sensor supply voltage (VACC) is 4.54 V or less, or 5.46 V or more for 0.8 seconds or more.	Brake booster with master cylinder assembly
↑	332	Accumulator pressure sensor output voltage (PACC) is less than 8%, or 88% or more of sensor supply voltage for 0.8 seconds or more (less than 0.4 V, or 4.4 V or more for 0.8 seconds or more).	↑
↑	333	Fluctuation of sensor output is out of specification (the difference between the present value and last value is 7.5 MPa (77.0 kgf/cm ² , 1088 psi)) for 0.8 seconds or more.	↑
↑	334	With the vehicle driven at 6 km/h (4 mph) or more and output value of the accumulator pressure sensor 19.7 MPa (200.8 kgf/cm ² , 2857 psi) or less, the pump motor does not operate for 12 seconds or more.	↑

INSPECTION PROCEDURE

NOTICE:

When replacing the skid control ECU (brake booster with master cylinder assembly) or brake actuator (brake booster with master cylinder assembly), perform initialization and calibration of the linear solenoid valve INFO

PROCEDURE

1.	READ VALUE USING TECHSTREAM (ACCUMULATOR PRESSURE SENSOR)
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(a) Connect the Techstream to the DLC3.

(b) Turn the ignition switch to ON (IG).

(c) Select the Data List on the Techstream INFO.

ABS/VSC/TRAC

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Accumulator Sensor	Accumulator pressure sensor / Min.: 0.00 V, Max.: 5.00 V	Specified value: 2.90 to 4.20 V	When brake fluid is stored in the accumulator: Accumulator pressure changes in accordance with volume of fluid stored in the accumulator

(d) Wait for 30 seconds without depressing the brake pedal.

(e) Check that the accumulator pressure sensor output value change is within the specified range.

OK:

Accumulator pressure sensor output value change is less than 0.55 V.

NG ► **REPLACE BRAKE BOOSTER WITH MASTER CYLINDER ASSEMBLY**

OK




2.	RECONFIRM DTC
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(a) Turn the ignition switch off.

(b) Clear the DTCs  .

(c) Perform a road test.

(d) Check if the same DTC is output  .

RESULT	PROCEED TO
DTC C1365/54 is not output.	A
DTC C1365/54 is output.	B

B ► **REPLACE BRAKE BOOSTER WITH MASTER CYLINDER ASSEMBLY**

A ► **CHECK FOR INTERMITTENT PROBLEMS**

