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Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: ELECTRONICALLY CONTROLLED BRAKE SYSTEM: Excessive Brake Pedal Travel (No Fluid Leaks and No Air in System); 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

Excessive Brake Pedal Travel (No Fluid Leaks and No Air in System)

DESCRIPTION

Depending on the malfunction, the skid control ECU prohibits operation of the electronically controlled brake system to protect components and prevent incorrect operation when DTCs are stored.

If the switching solenoid is disabled due to prohibition of the electronically controlled brake system, the response of the brake pedal changes and braking performance is reduced.

PROCEDURE

1.	**BRAKE PROBLEM CHECK**

(a) Check the conditions at the time the problem occurred.

(1) Whether a warning light illuminated or the buzzer sounded.

(2) Road surface condition when the problem occurred and just before the problem occurred.

(3) When the problem occurred and how many times the brake pedal was depressed before the problem occurred.

(4) Frequency of the abnormal brake pedal response.

NEXT

2.	**CHECK DTC AND FREEZE FRAME DATA**

(a) Using the GTS, check DTCs and Freeze Frame Data.

Chassis > Brake Booster > Trouble Codes

Chassis > Brake/EPB > Trouble Codes

HINT:

- If there are currently no warnings and the brake pedal travel is not excessive, DTCs may have been cleared after the system returned to normal.
- If the brake pedal response returned to normal and there are currently no warnings, the system is normal.

RESULT	PROCEED TO
DTCs are not output.	A
DTCs are output.	B

B ▶ **REPAIR CIRCUITS INDICATED BY OUTPUT DTCS**

A

▼

3.	**CHECK BRAKE PEDAL**

(a) While depressing the brake pedal by hand, check the installation condition of the brake pedal stroke sensor assembly and brake pedal, and check for mechanical malfunctions.

(b) Check and adjust the brake pedal height.

Click here INFO

NEXT

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4.	**INSPECT BRAKE BOOSTER WITH MASTER CYLINDER ASSEMBLY**

Click here INFO

OK:
The brake booster with master cylinder assembly is normal.

OK ▶ **USE SIMULATION METHOD TO CHECK**

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

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