Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029ZB2
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: BRAKE SYSTEM (OTHER): BRAKE PEDAL: ADJUSTMENT; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

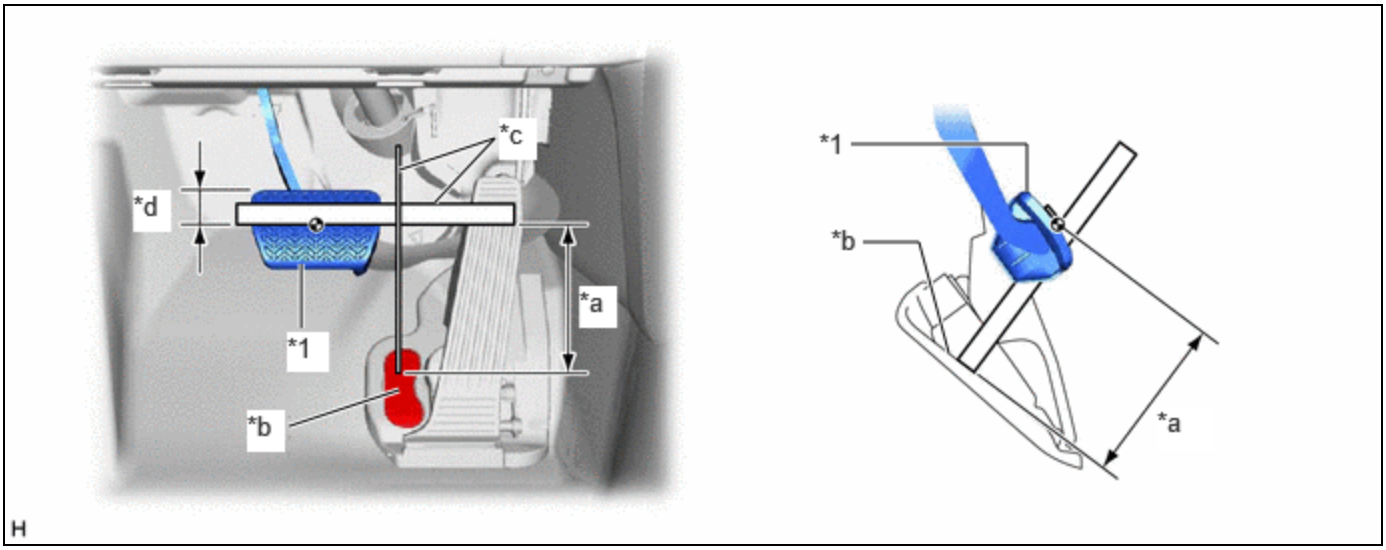
ADJUSTMENT

PROCEDURE

1. INSPECT AND ADJUST BRAKE PEDAL HEIGHT

(a) Check the brake pedal height.

(1) Measure the shortest distance between the brake pedal pad surface and accelerator pedal pad as shown in the illustration.



*1	Brake Pedal Pad	-	-
*a	Brake Pedal Height	*b	Measuring Plane of Accelerator Pedal Pad
*c	Ruler	*d	35 mm (1.38 in.)

Brake Pedal Height from Accelerator Pedal Pad:
125.3 to 141.3 mm (4.93 to 5.56 in.)

HINT:

If the brake pedal height is not as specified, inspect and adjust the push rod length according to the procedure below.

(b) Adjust the push rod length.

(1) Remove the stop light switch assembly.

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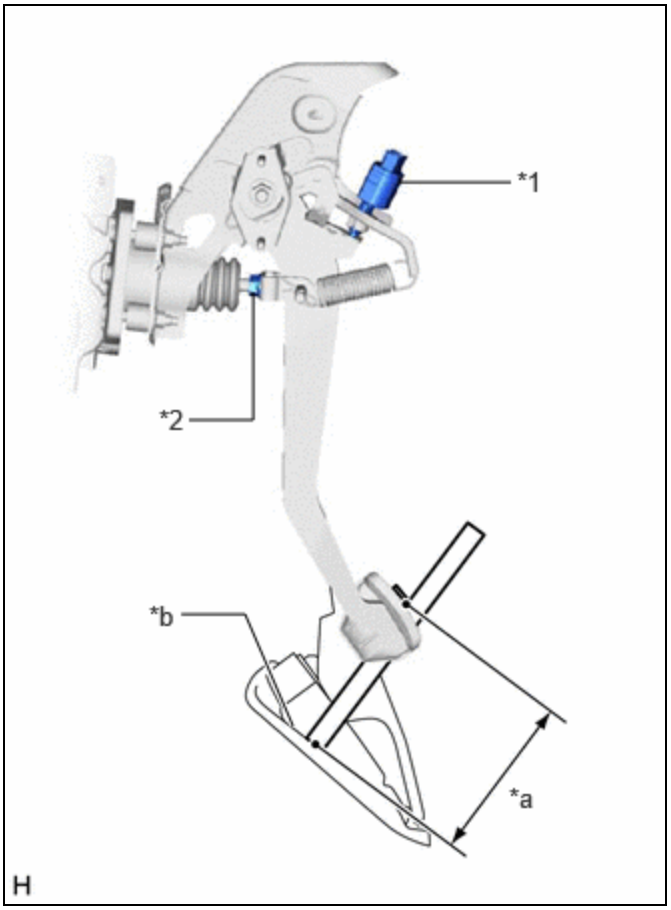

*1	Stop Light Switch Assembly
*2	Master Cylinder Push Rod Nut
*a	Brake Pedal Height
*b	Measuring Plane of Accelerator Pedal Pad

(2) Loosen the master cylinder push rod nut.

(3) Adjust the brake pedal height by turning the push rod.

Brake Pedal Height from Accelerator Pedal Pad:
125.3 to 141.3 mm (4.93 to 5.56 in.)

(4) Tighten the master cylinder push rod nut.

Torque:

25.5 N·m {260 kgf·cm, 19 ft·lbf}

(5) Install the stop light switch assembly.

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2. INSPECT AND ADJUST BRAKE PEDAL STROKE SENSOR

NOTICE:

Do not depress the brake pedal after turning the ignition switch to ON.

(a) Inspect the brake pedal stroke sensor.

(1) Read the stroke sensor value without the brake pedal depressed.

Chassis > Brake Booster > Data List

TESTER DISPLAY
Stroke Sensor

Standard Voltage (without the brake pedal depressed):
0.8 to 1.2 V

HINT:

If the stroke sensor value is not within the standard voltage, adjust the brake pedal stroke sensor.

(b) Adjust the brake pedal stroke sensor.

(1) Remove the No. 1 instrument panel under cover sub-assembly.

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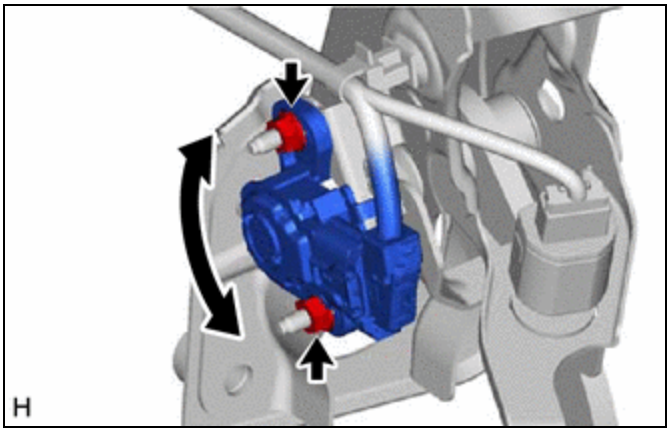
(2) Loosen the 2 nuts.

(3) Read the stroke sensor value in the Data List, and turn the brake pedal stroke sensor slowly to the right or left to adjust the output voltage so that it is within the following range.



Standard Voltage (without the brake pedal depressed):
0.8 to 1.2 V

(4) Tighten the 2 nuts.

Torque:

8.5 N·m {87 kgf·cm, 75 in·lbf}

(5) Install the No. 1 instrument panel under cover sub-assembly.

3. PERFORM BRAKE SYSTEM CALIBRATION

HINT:

Perform this procedure only when the brake pedal height or brake pedal stroke sensor has been adjusted.

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4. INSPECT BRAKE PEDAL FREE PLAY

(a) Depress the brake pedal until a slight resistance is felt. Measure the distance as shown in the illustration.

Brake Pedal Free Play:
1.0 to 6.0 mm (0.0394 to 0.236 in.)

HINT:

- If the brake pedal free play is not as specified, check the stop light switch clearance.

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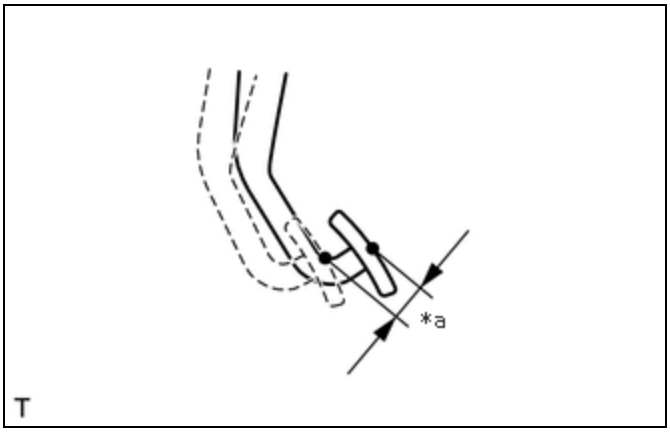
- If the brake pedal free play is as specified, proceed to the Inspect Brake Pedal Reserve Distance procedure.

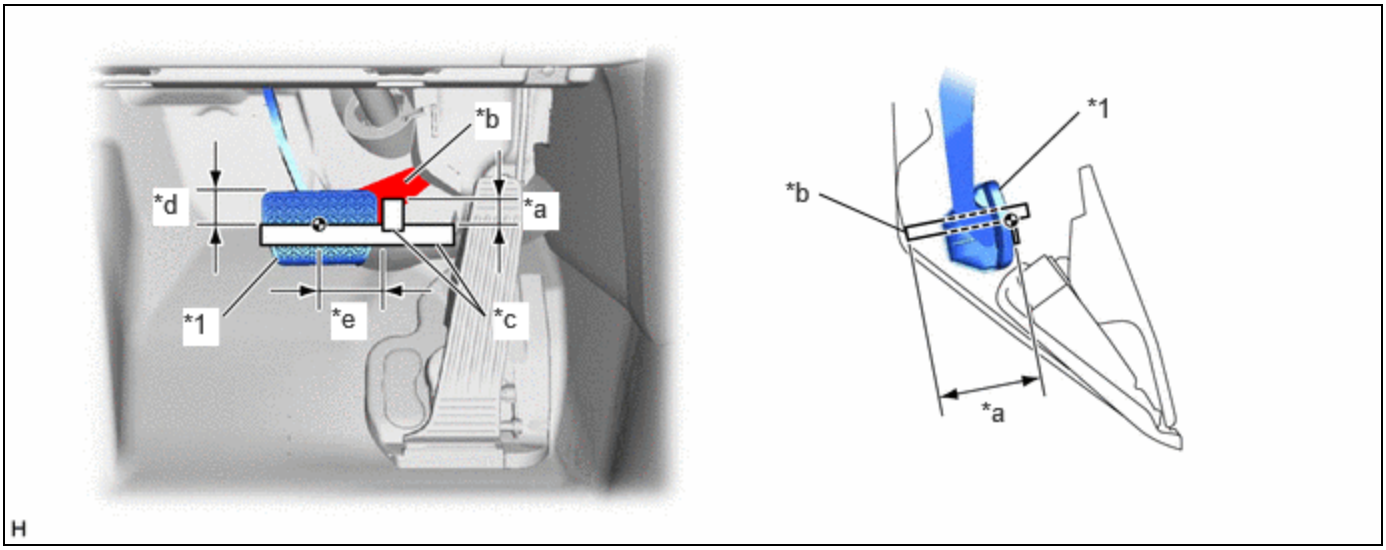


*a	Brake Pedal Free Play

5. INSPECT BRAKE PEDAL RESERVE DISTANCE

(a) Turn back the front floor carpet assembly.

(b) With the ignition switch ON (READY), depress the brake pedal and measure the brake pedal reserve distance as shown in the illustration.



*1	Brake Pedal Pad	-	-
*a	Brake Pedal Reserve Distance	*b	Measuring Plane of Column Hole Cover Silencer Sheet
*c	Ruler	*d	35 mm (1.38 in.)
*e	70 mm (2.76 in.)	-	-

Brake Pedal Reserve Distance from Column Hole Cover Silencer Sheet at 300 N (31 kgf, 67.4 lbf):
132 mm (5.20 in.) or more