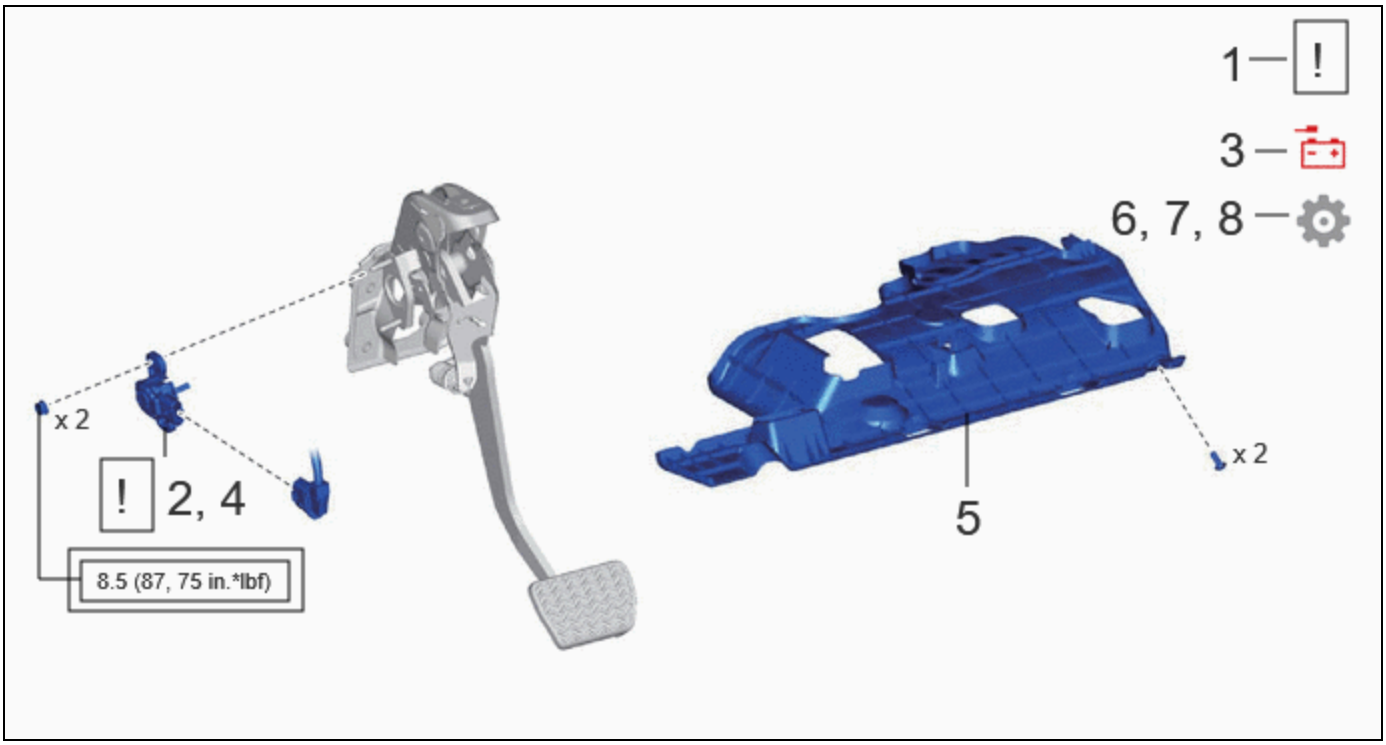
Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029XVE
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: BRAKE PEDAL STROKE SENSOR: INSTALLATION; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

INSTALLATION

CAUTION / NOTICE / HINT

COMPONENTS (INSTALLATION)



	PROCEDURE	PART NAME CODE	!		⚙
1	INSPECT AND ADJUST BRAKE PEDAL HEIGHT	-	INFO	-	-
2	INSTALL BRAKE PEDAL STROKE SENSOR ASSEMBLY	89510D	INFO	-	-
3	CONNECT CABLE TO NEGATIVE AUXILIARY BATTERY TERMINAL	-	INFO	-	-
4	ADJUST BRAKE PEDAL STROKE SENSOR ASSEMBLY	89510D	INFO	-	-
5	NO. 1 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY	55606	-	-	-
6	PERFORM INITIALIZATION AND CALIBRATION	-	-		INFO
7	CHECK AND CLEAR DTC	-	-	-	INFO

	PROCEDURE	PART NAME CODE			
8	INITIALIZATION AFTER RECONNECTING AUXILIARY BATTERY TERMINAL	-	-	-	INFO

	Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping" : N*m (kgf*cm, ft.*lbf)	-	-

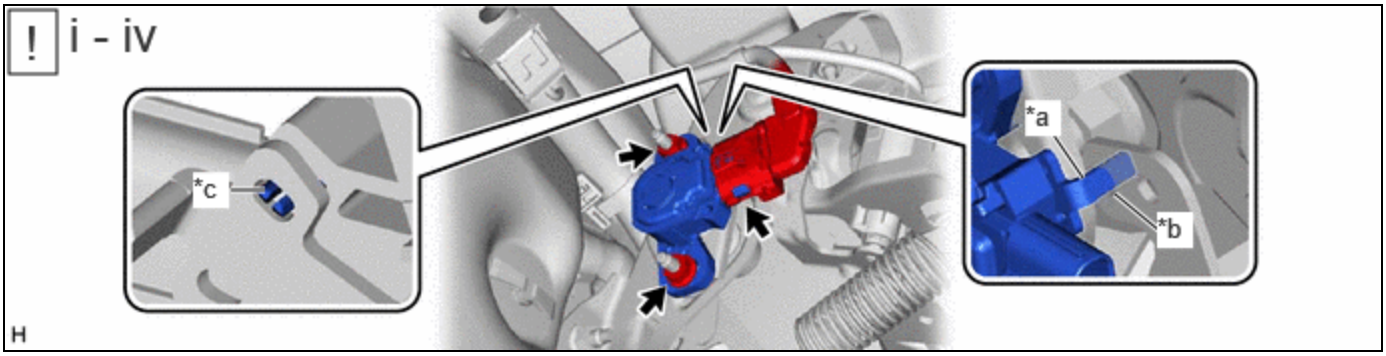
PROCEDURE

1. INSPECT AND ADJUST BRAKE PEDAL HEIGHT

Click here INFO

2. INSTALL BRAKE PEDAL STROKE SENSOR ASSEMBLY

(a) When installing a new brake pedal stroke sensor assembly:



*a	Brake Pedal Stroke Sensor Assembly Lever	*b	Brake Pedal Groove
*c	Brake Pedal Stroke Sensor Assembly Lever Set Pin	-	-

(1) Install a new brake pedal stroke sensor assembly to the brake pedal support assembly with the 2 nuts.

Torque:

8.5 N·m {87 kgf·cm, 75 in·lbf}

NOTICE:

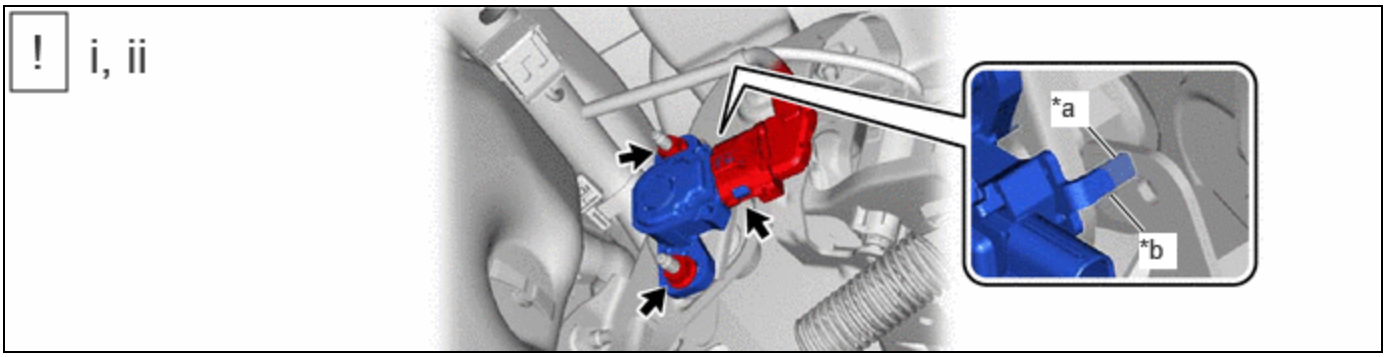
- Do not break the brake pedal stroke sensor assembly lever set pin before installing the brake pedal stroke sensor assembly with the 2 nuts.
- Engage the brake pedal stroke sensor assembly lever with the brake pedal groove.
- Check that there is no foreign matter attached to the contact surface of the brake pedal stroke sensor assembly.
- Check that the tip of the brake pedal stroke sensor assembly lever is protruding from the brake pedal groove.
- Do not drop the brake pedal stroke sensor assembly.
- If the brake pedal stroke sensor assembly has been dropped, replace the brake pedal stroke sensor assembly with a new one.

(2) Connect the connector.

(3) Firmly depress the brake pedal to break the brake pedal stroke sensor assembly lever set pin.

(4) Remove the broken lever set pin.

(b) When reusing the brake pedal stroke sensor assembly:



*a	Brake Pedal Stroke Sensor Assembly Lever	*b	Brake Pedal Groove

(1) Install the brake pedal stroke sensor assembly to the brake pedal support assembly and temporarily tighten the 2 nuts.

NOTICE:

- Engage the brake pedal stroke sensor assembly lever with the brake pedal groove.
- Check that there is no foreign matter attached to the contact surface of the brake pedal stroke sensor assembly.
- Check that the tip of the brake pedal stroke sensor assembly lever is protruding from the brake pedal groove.
- Do not drop the brake pedal stroke sensor assembly.
- If the brake pedal stroke sensor assembly has been dropped, replace the brake pedal stroke sensor assembly with a new one.

(2) Connect the connector.

3. CONNECT CABLE TO NEGATIVE AUXILIARY BATTERY TERMINAL

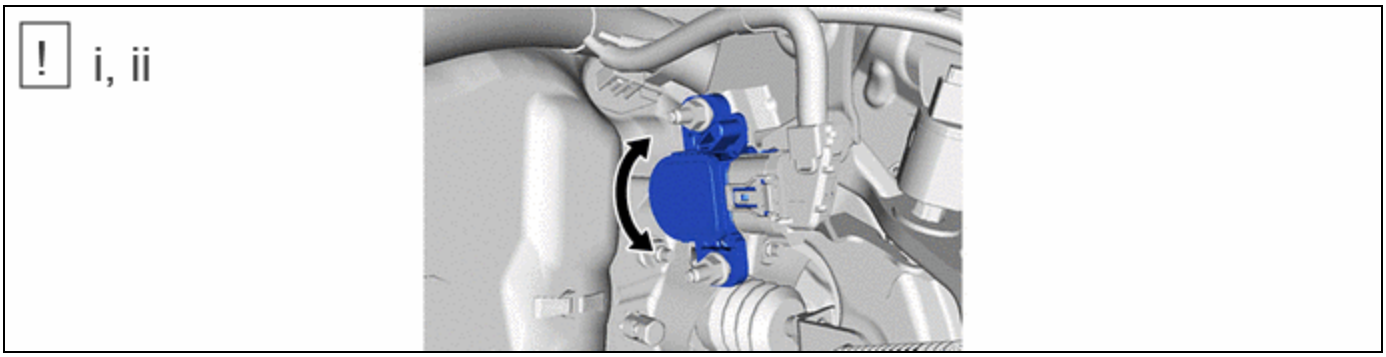
for M20A-FXS: Click here INFO

for 2ZR-FXE: Click here INFO

4. ADJUST BRAKE PEDAL STROKE SENSOR ASSEMBLY

NOTICE:

When the brake pedal stroke sensor assembly is being reused, perform the following procedure to adjust it.



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

Chassis > Brake Booster > Data List

TESTER DISPLAY
Stroke Sensor

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

(2) Tighten the 2 nuts.

Torque:

8.5 N·m {87 kgf·cm, 75 in·lbf}

NOTICE:

After turning the ignition switch to ON, do not depress the brake pedal until the nuts have been tightened.

5. INSTALL NO. 1 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY

Click here INFO

6. PERFORM INITIALIZATION AND CALIBRATION

Click here INFO

7. CHECK AND CLEAR DTC

Click here INFO

8. INITIALIZATION AFTER RECONNECTING AUXILIARY BATTERY TERMINAL

HINT:

When disconnecting and reconnecting the auxiliary battery, there is an automatic learning function that completes learning when the respective system is used.

Click here INFO