

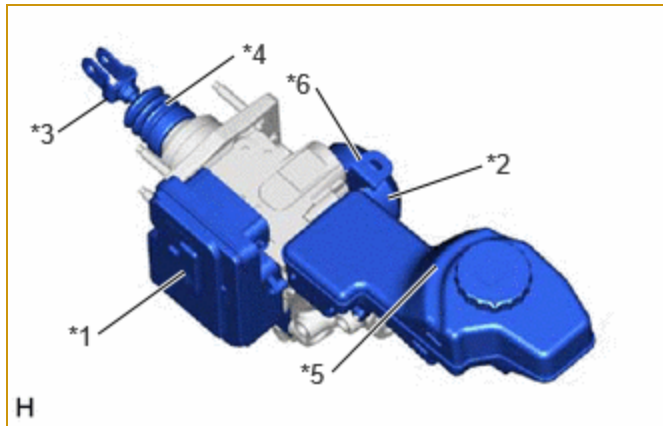
Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM1000000029ZB5
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: BRAKE SYSTEM (OTHER): BRAKE BOOSTER: INSTALLATION; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

INSTALLATION

CAUTION / NOTICE / HINT

NOTICE:

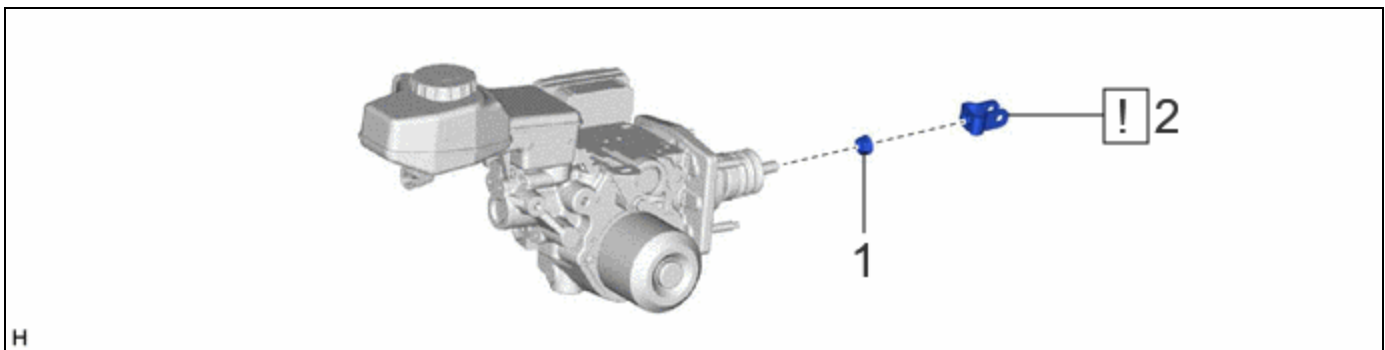
- After replacing the brake booster with master cylinder assembly, make sure to perform update ECU security key procedure.
- After performing the update ECU security key procedure, make sure to perform the initialization procedure for when the cable has been disconnected and reconnected to the negative (-) auxiliary battery terminal.
- Do not carry the brake booster with master cylinder assembly by the parts shown in the illustration.






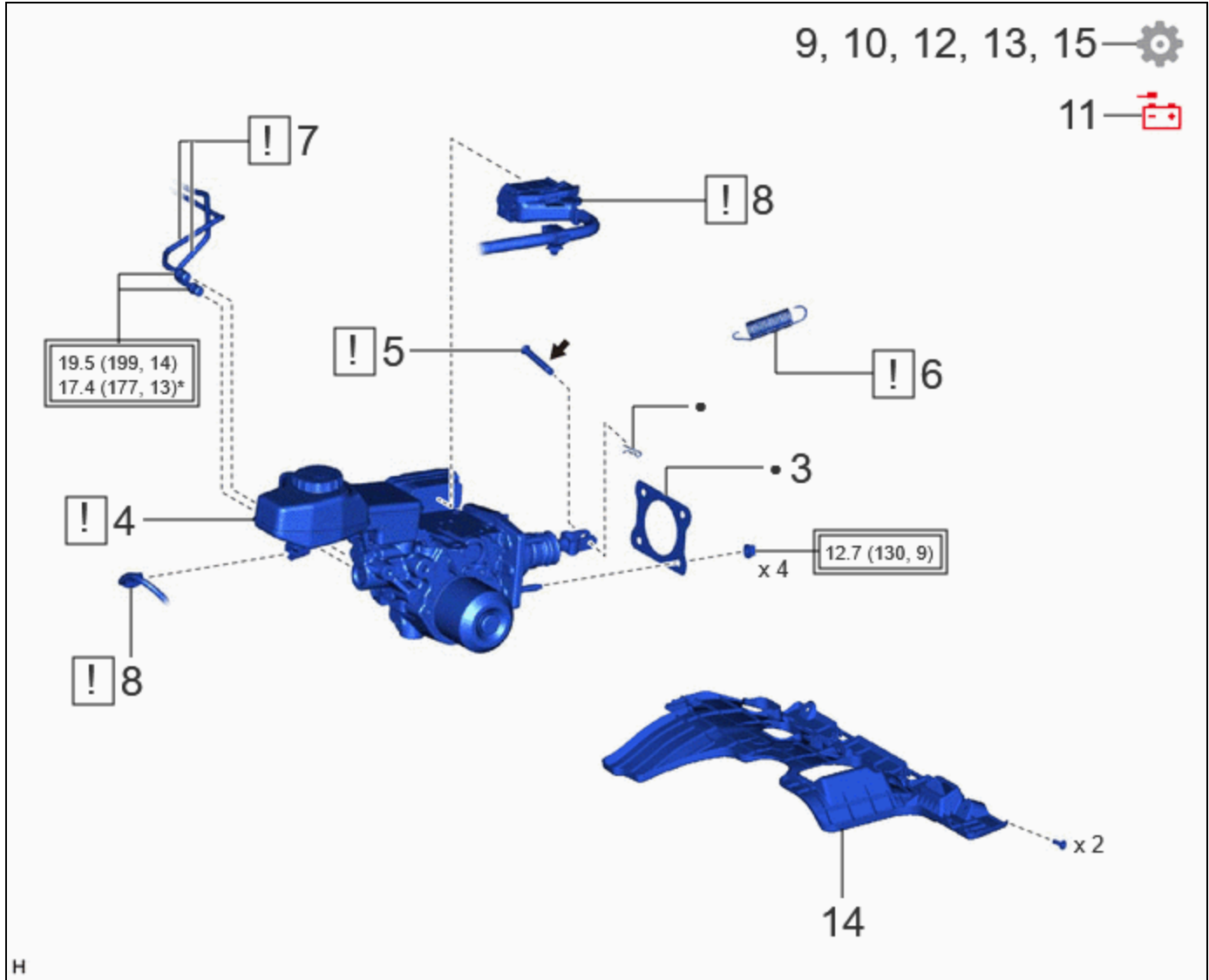
*1	No. 1 Skid Control ECU
*2	Motor
*3	Master Cylinder Push Rod Clevis
*4	Boot
*5	Reservoir
*6	Bracket




CAUTION / NOTICE / HINT




COMPONENTS (INSTALLATION)





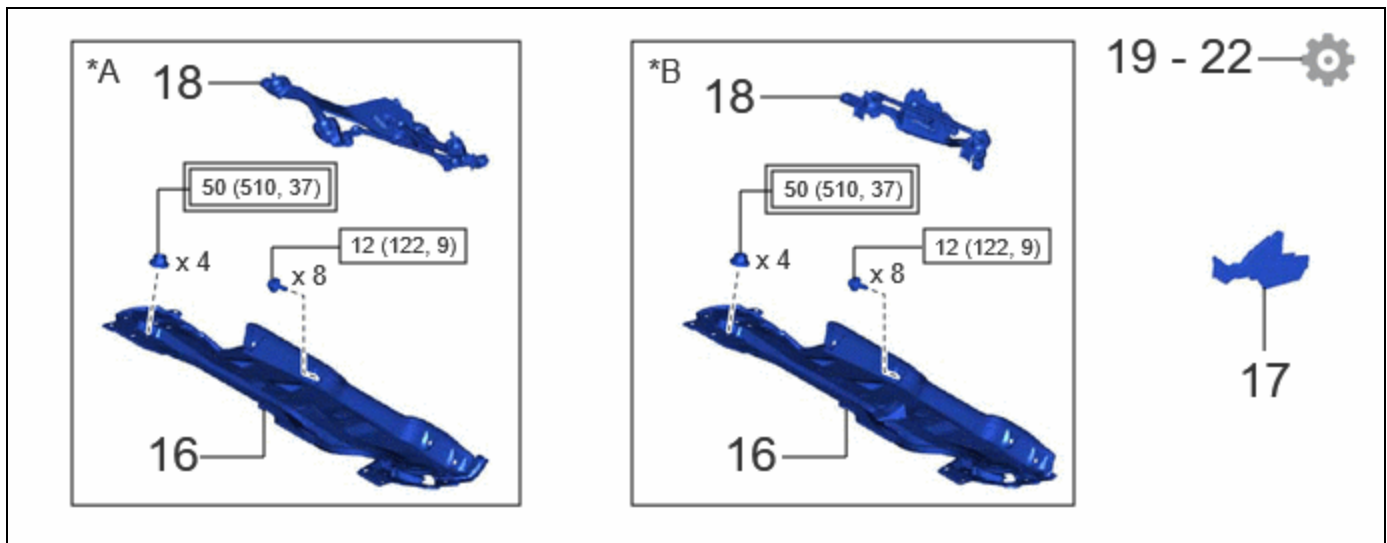
PROCEDURE	PART NAME CODE			
1 MASTER CYLINDER PUSH ROD NUT	47262	-	-	-
2 MASTER CYLINDER PUSH ROD CLEVIS	47264	INFO	-	-












PROCEDURE	PART NAME CODE			
3 BRAKE MASTER CYLINDER GASKET	44785D	-	-	-
4 BRAKE BOOSTER WITH MASTER CYLINDER ASSEMBLY	47210L	INFO	-	-
5 PUSH ROD PIN	47264A	INFO	-	-
6 BRAKE PEDAL RETURN SPRING	47101A	INFO	-	-
7 BRAKE LINE	-	INFO	-	-



	PROCEDURE	PART NAME CODE			
8	ENGINE ROOM MAIN WIRE	82111	INFO	-	-
9	INSPECT AND ADJUST BRAKE PEDAL HEIGHT	-	-	-	INFO
10	INSPECT BRAKE PEDAL FREE PLAY	-	-	-	INFO
11	CONNECT CABLE TO NEGATIVE AUXILIARY BATTERY TERMINAL	-	-	-	-
12	UPDATE ECU SECURITY KEY	-	-	-	INFO
13	INSPECT AND ADJUST BRAKE PEDAL STROKE SENSOR	-	-	-	INFO
14	NO. 1 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY	55606	-	-	-
15	BLEED BRAKE SYSTEM	-	-	-	INFO

	Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping": N*m (kgf*cm, ft.*lbf)	*	For use with a union nut wrench
•	Non-reusable part		Lithium soap base glycol grease



	PROCEDURE	PART NAME CODE			
16	OUTER COWL TOP PANEL SUB-ASSEMBLY	55701J	-	-	-
17	WATER GUARD PLATE	55734D	-	-	-

PROCEDURE		PART NAME CODE			
18	WINDSHIELD WIPER MOTOR AND LINK ASSEMBLY	-	-	-	-
19	PERFORM BRAKE SYSTEM CALIBRATION	-	-	-	
20	INSPECT BRAKE PEDAL RESERVE DISTANCE	-	-	-	
21	CHECK AND CLEAR DTC	-	-	-	-
22	PERFORM INITIALIZATION AND CALIBRATION	-	-	-	

*A	for M20A-FXS	*B	for 2ZR-FXE
	Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping": N*m (kgf*cm, ft.*lbf)		N*m (kgf*cm, ft.*lbf): Specified torque

PROCEDURE

1. INSTALL MASTER CYLINDER PUSH ROD NUT


HINT:

Perform this procedure only when replacement of the master cylinder push rod nut is necessary.

2. INSTALL MASTER CYLINDER PUSH ROD CLEVIS

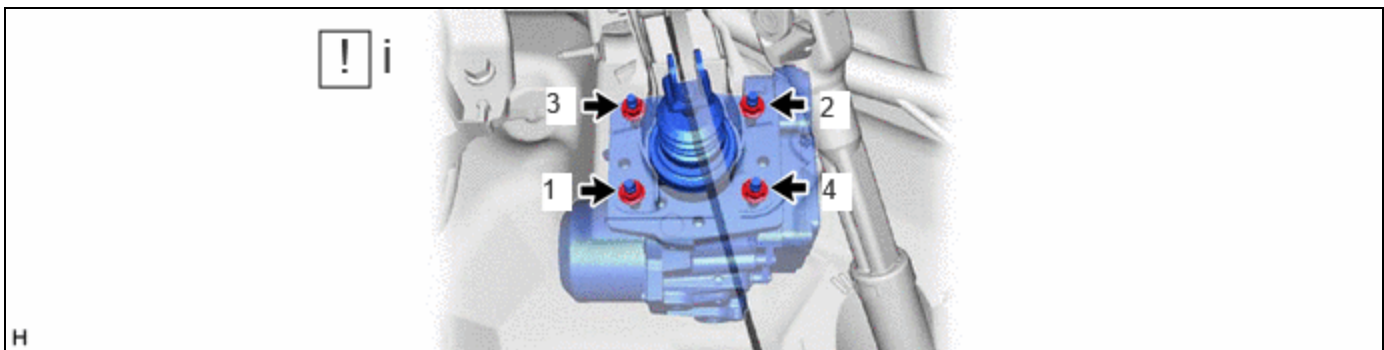
HINT:

Perform this procedure only when replacement of the master cylinder push rod clevis is necessary.

	<p>NOTICE:</p> <p>Fully tighten the master cylinder push rod nut when adjusting the brake pedal height.</p>
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3. INSTALL BRAKE MASTER CYLINDER GASKET

4. INSTALL BRAKE BOOSTER WITH MASTER CYLINDER ASSEMBLY



(1) Install the brake booster with master cylinder assembly with the 4 nuts in the order shown in the illustration.

Torque:

12.7 N·m {130 kgf·cm, 9 ft·lbf}

NOTICE:

- Do not apply excessive force to the brake lines.
- Do not drop the brake booster with master cylinder assembly when carrying it.
- Be careful not to allow brake fluid to enter the connector.
- If installing a new brake booster with master cylinder assembly, do not remove the hole plugs before connecting the brake lines because the brake booster with master cylinder assembly is filled with brake fluid.

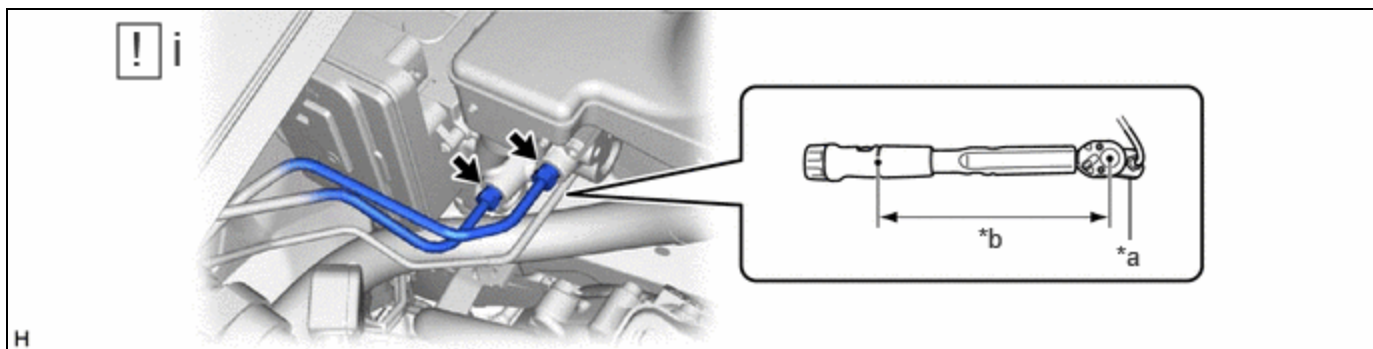
5. INSTALL PUSH ROD PIN

	Click here INFO
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6. INSTALL BRAKE PEDAL RETURN SPRING

	Click here INFO
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7. CONNECT BRAKE LINE



*a	Union Nut Wrench	*b	Torque Wrench Fulcrum Length
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(1) Using a union nut wrench, connect the 2 brake lines to the brake booster with master cylinder assembly.

Torque:

Specified tightening torque :
19.5 N·m {199 kgf·cm, 14 ft·lbf}

NOTICE:

- Do not kink or damage the brake line.
- Do not allow any foreign matter such as dirt or dust to enter the brake line from the connecting parts.

HINT:

- Calculate the torque wrench reading when changing the fulcrum length of the torque wrench.

Click here [INFO](#)

- When using a union nut wrench (fulcrum length of 20 mm (0.787 in.)) + torque wrench (fulcrum length of 162 mm (6.38 in.)):

17.4 N*m (177 kgf*cm, 13 ft.*lbf)

8. INSTALL ENGINE ROOM MAIN WIRE

**NOTICE:**

- Make sure that the connector is locked securely.
- Make sure that the connector can be connected smoothly.
- Do not allow water, oil or dirt to enter the connector.

9. INSPECT AND ADJUST BRAKE PEDAL HEIGHT

Click here [INFO](#)

10. INSPECT BRAKE PEDAL FREE PLAY

Click here [INFO](#)

11. CONNECT CABLE TO NEGATIVE AUXILIARY BATTERY TERMINAL

for M20A-FXS: Click here [INFO](#)

for 2ZR-FXE: Click here [INFO](#)

12. UPDATE ECU SECURITY KEY**HINT:**

Perform this procedure only when replacement of the brake booster with master cylinder assembly is necessary.

Click here [INFO](#)

13. INSPECT AND ADJUST BRAKE PEDAL STROKE SENSOR

Click here [INFO](#)

14. INSTALL NO. 1 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY**15. BLEED BRAKE SYSTEM**

Click here [INFO](#)

16. INSTALL OUTER COWL TOP PANEL SUB-ASSEMBLY

Click here [INFO](#)

17. INSTALL WATER GUARD PLATE**18. INSTALL WINDSHIELD WIPER MOTOR AND LINK ASSEMBLY**

Click here [INFO](#)

19. PERFORM BRAKE SYSTEM CALIBRATION

Click here [INFO](#)

20. INSPECT BRAKE PEDAL RESERVE DISTANCE

Click here [INFO](#)

21. CHECK AND CLEAR DTC**22. PERFORM INITIALIZATION AND CALIBRATION**

Click here [INFO](#)

