

<b>Last Modified:</b> 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM100000029XV1
<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: STEERING ANGLE SENSOR: INSTALLATION; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

## INSTALLATION

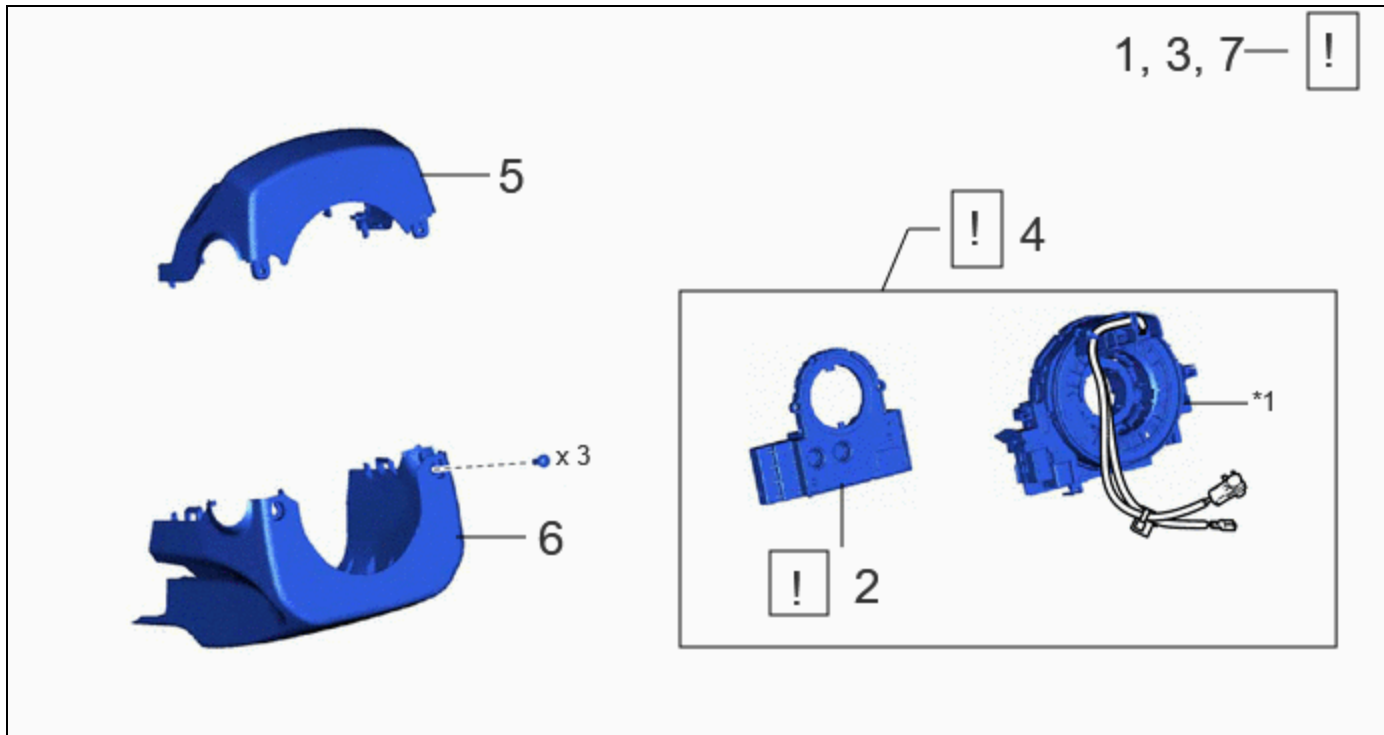
### CAUTION / NOTICE / HINT

**NOTICE:**




- 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.
- A lock pin is installed to a new steering sensor. Do not remove the lock pin before the steering sensor is installed to the spiral cable sub-assembly.

### CAUTION / NOTICE / HINT

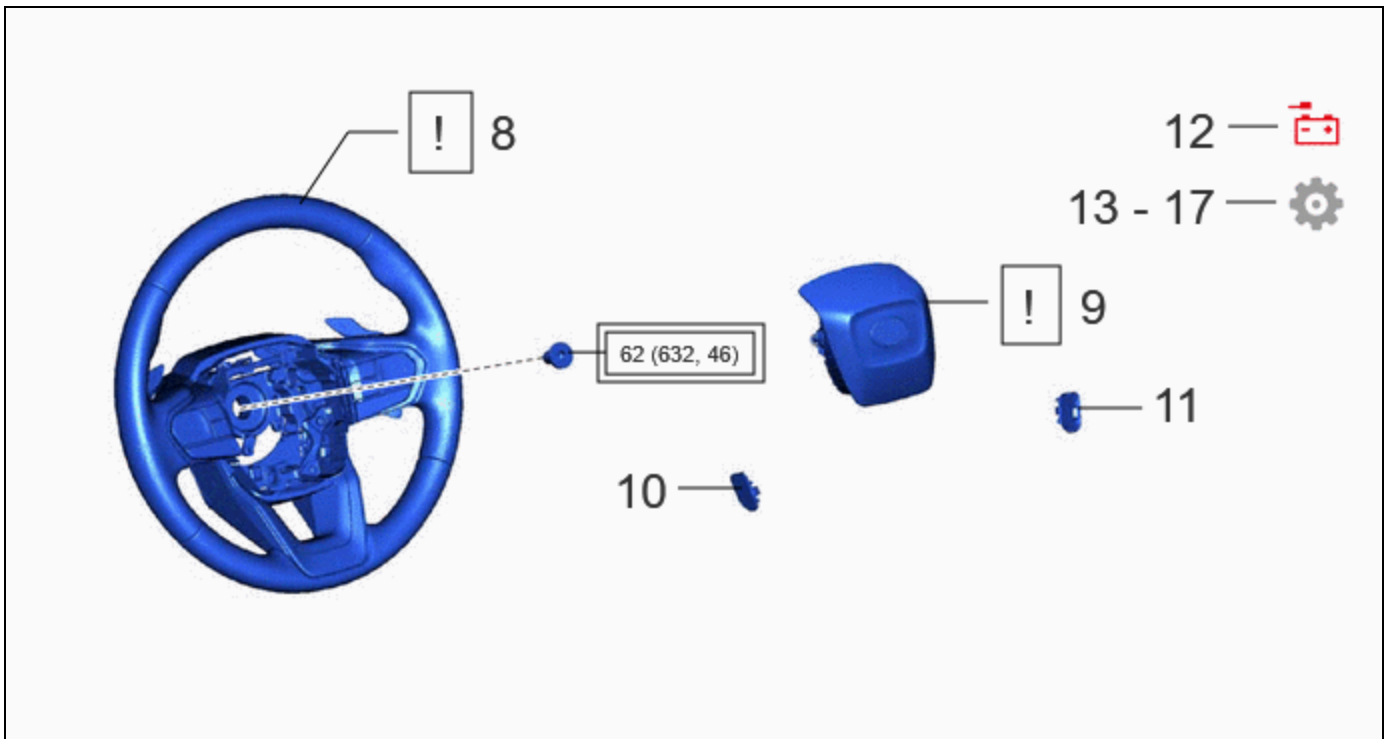
#### COMPONENTS (INSTALLATION)









	PROCEDURE	PART NAME CODE	!	📄	⚙️
1	INSPECT SPIRAL CABLE SUB-ASSEMBLY	84306	INFO	-	-
2	STEERING SENSOR	89245B	INFO	-	-
3	SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY	-	INFO	-	-
4	UPPER STEERING COLUMN COVER	45286B	-	-	-


PROCEDURE		PART NAME CODE			
5	LOWER STEERING COLUMN COVER	45287	-	-	-
6	ALIGN FRONT WHEELS FACING STRAIGHT AHEAD	-	<a href="#">INFO</a>	-	-
7	ADJUST SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY	84306	<a href="#">INFO</a>	-	-

*1	SPIRAL CABLE SUB-ASSEMBLY	-	-
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PROCEDURE		PART NAME CODE			
8	STEERING WHEEL ASSEMBLY	45100	<a href="#">INFO</a>	-	-
9	HORN BUTTON ASSEMBLY	45130	<a href="#">INFO</a>	-	-
10	NO. 3 STEERING WHEEL COVER LOWER	45187	-	-	-
11	NO. 2 STEERING WHEEL COVER LOWER	45186	-	-	-
12	CONNECT CABLE TO NEGATIVE AUXILIARY BATTERY TERMINAL	-	-	-	-
13	UPDATE ECU SECURITY KEY	-	-	-	<a href="#">INFO</a>
14	INSPECT SRS WARNING LIGHT	-	-	-	<a href="#">INFO</a>
15	INSPECT HORN BUTTON ASSEMBLY	45130	-	-	<a href="#">INFO</a>

	PROCEDURE	PART NAME CODE			
16	CHECK STEERING WHEEL CENTER POINT	-	-	-	<a href="#">INFO</a>
17	INITIALIZATION AFTER RECONNECTING AUXILIARY BATTERY TERMINAL	-	-	-	<a href="#">INFO</a>

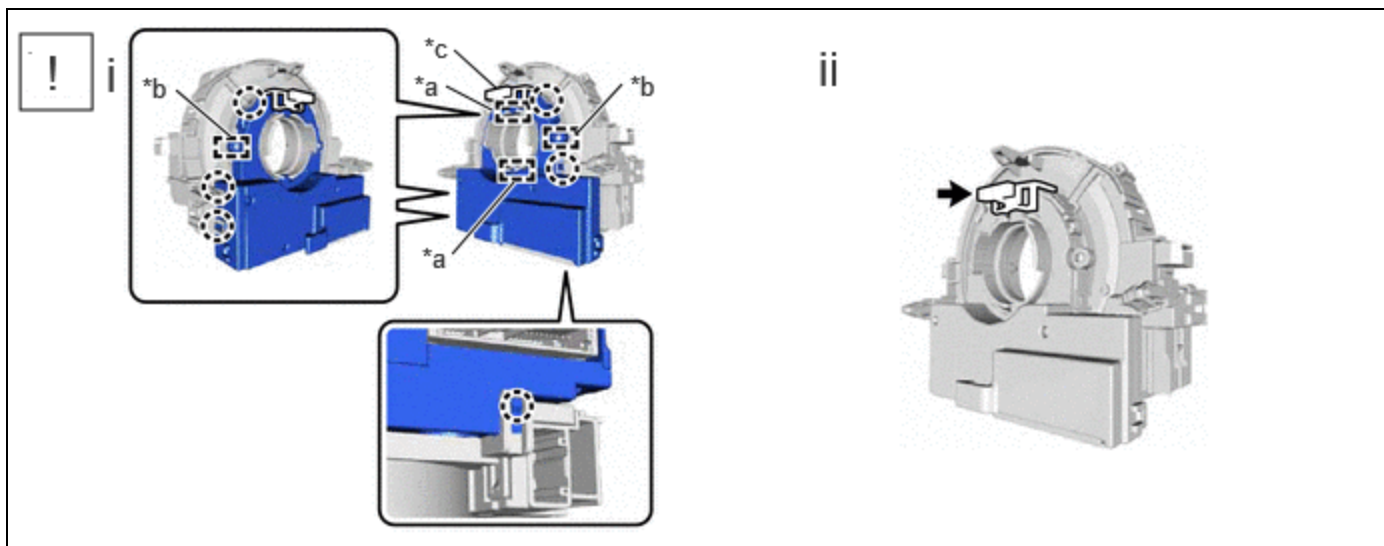
	Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping" : N*m (kgf*cm, ft.*lbf)	-	-
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## PROCEDURE

### 1. INSPECT SPIRAL CABLE SUB-ASSEMBLY

Click here [INFO](#)

### 2. INSTALL STEERING SENSOR



*a	Guide	*b	Pin
*c	Lock Pin	-	-

(1) Align the 2 pins and 2 guides, and engage the 6 claws to install the steering sensor to the spiral cable sub-assembly.

**NOTICE:**

- Do not remove the lock pin before the steering sensor is installed to the spiral cable sub-assembly.
- Do not damage the pins of the spiral cable sub-assembly or guides of the steering sensor.
- The spiral cable sub-assembly can be rotated up to 30° even when the interlock is engaged. Therefore, make sure that both guides are aligned properly when installing the steering sensor to the spiral cable sub-assembly.

(2) Remove the lock pin from the steering sensor.

### 3. INSTALL SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY



Click here [INFO](#)

#### 4. INSTALL UPPER STEERING COLUMN COVER

Click here [INFO](#)

#### 5. INSTALL LOWER STEERING COLUMN COVER

Click here [INFO](#)

#### 6. ALIGN FRONT WHEELS FACING STRAIGHT AHEAD

#### 7. ADJUST SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY

Click here [INFO](#)

#### 8. INSTALL STEERING WHEEL ASSEMBLY



Click here [INFO](#)

#### 9. INSTALL HORN BUTTON ASSEMBLY



Click here [INFO](#)

#### 10. INSTALL NO. 3 STEERING WHEEL COVER LOWER

Click here [INFO](#)

#### 11. INSTALL NO. 2 STEERING WHEEL COVER LOWER

Click here [INFO](#)

#### 12. CONNECT CABLE TO NEGATIVE AUXILIARY BATTERY TERMINAL

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

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

#### 13. UPDATE ECU SECURITY KEY

Click here [INFO](#)

##### **HINT:**

When the steering sensor is replaced with a new one, ECU security key is necessary.

#### 14. INSPECT SRS WARNING LIGHT

Click here [INFO](#)

#### 15. INSPECT HORN BUTTON ASSEMBLY

Click here 

## 16. CHECK STEERING WHEEL CENTER POINT

Click here 

## 17. 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 are used.

Click here 

