

<b>Last Modified:</b> 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM100000029ZLB
<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> M20A-FXS (ENGINE CONTROL): CAMSHAFT POSITION SENSOR: INSTALLATION; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

## INSTALLATION

### CAUTION / NOTICE / HINT

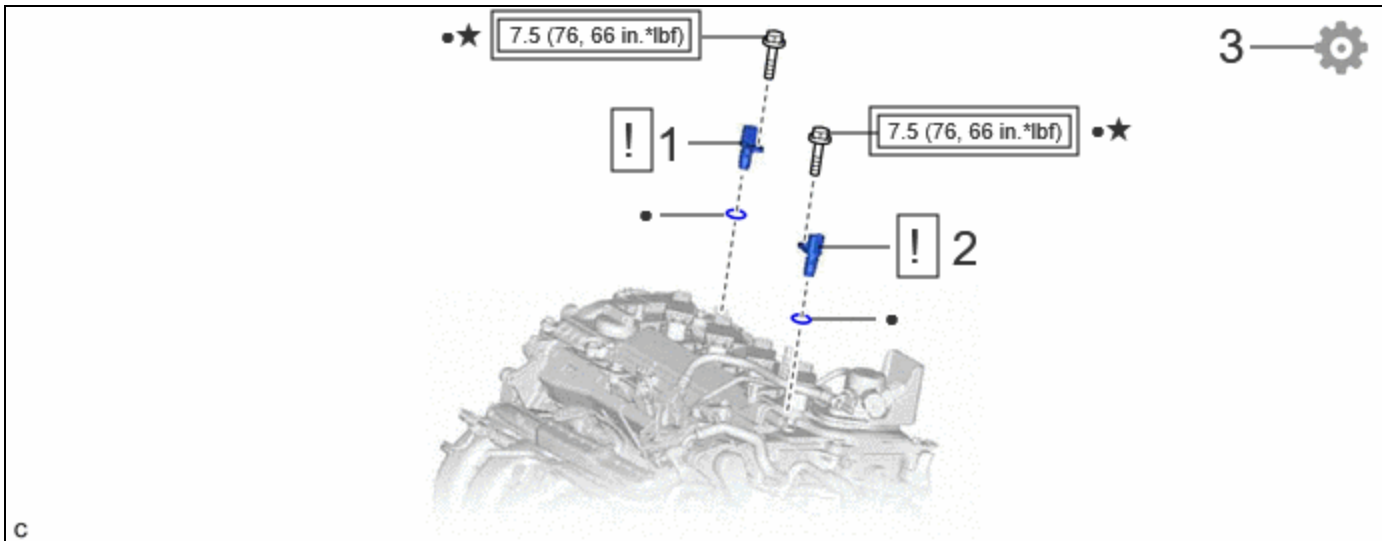
**NOTICE:**

This procedure includes the installation of small-head bolts. Refer to Small-Head Bolts of Basic Repair Hint to identify the small-head bolts.

Click here [INFO](#)

### CAUTION / NOTICE / HINT

#### COMPONENTS (INSTALLATION)

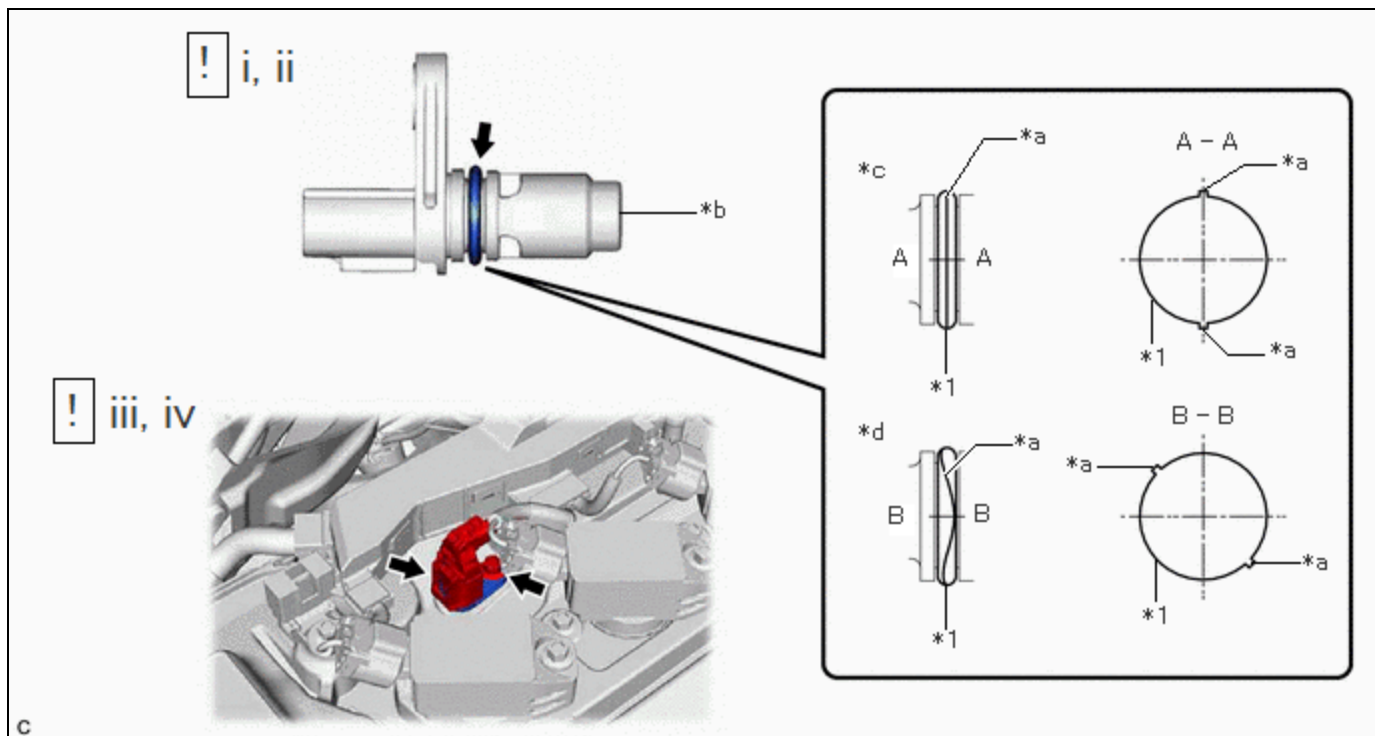


	PROCEDURE	PART NAME CODE			
1	CAMSHAFT POSITION SENSOR (for Exhaust Side)	11102A	<a href="#">INFO</a>	-	-
2	CAMSHAFT POSITION SENSOR (for Intake Side)	11102A	<a href="#">INFO</a>	-	-
3	INSPECT FOR ENGINE OIL LEAK	-	-	-	<a href="#">INFO</a>

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

## PROCEDURE

### 1. INSTALL CAMSHAFT POSITION SENSOR (for Exhaust Side)



*1	O-ring	-	-
*a	Seam	*b	Camshaft Position Sensor Tip
*c	OK	*d	NG

(1) Perform this procedure only when reusing the camshaft position sensor.

1. Clean the O-ring groove of the camshaft position sensor.

#### NOTICE:

Make sure the O-ring groove is free of foreign matter.

2. Install a new O-ring to the camshaft position sensor.

#### NOTICE:

Set the O-ring on the tip of the camshaft position sensor and roll it into the O-ring groove with bare hands to install it.

3. Check if the O-ring is twisted.

#### HINT:

Check the entire circumference of the seam of the O-ring for twisting.

- (2) Apply a light coat of engine oil to the O-ring of the camshaft position sensor.
- (3) Using an 8 mm socket wrench, install the camshaft position sensor to the cylinder head cover sub-assembly with a new bolt.

#### Torque:

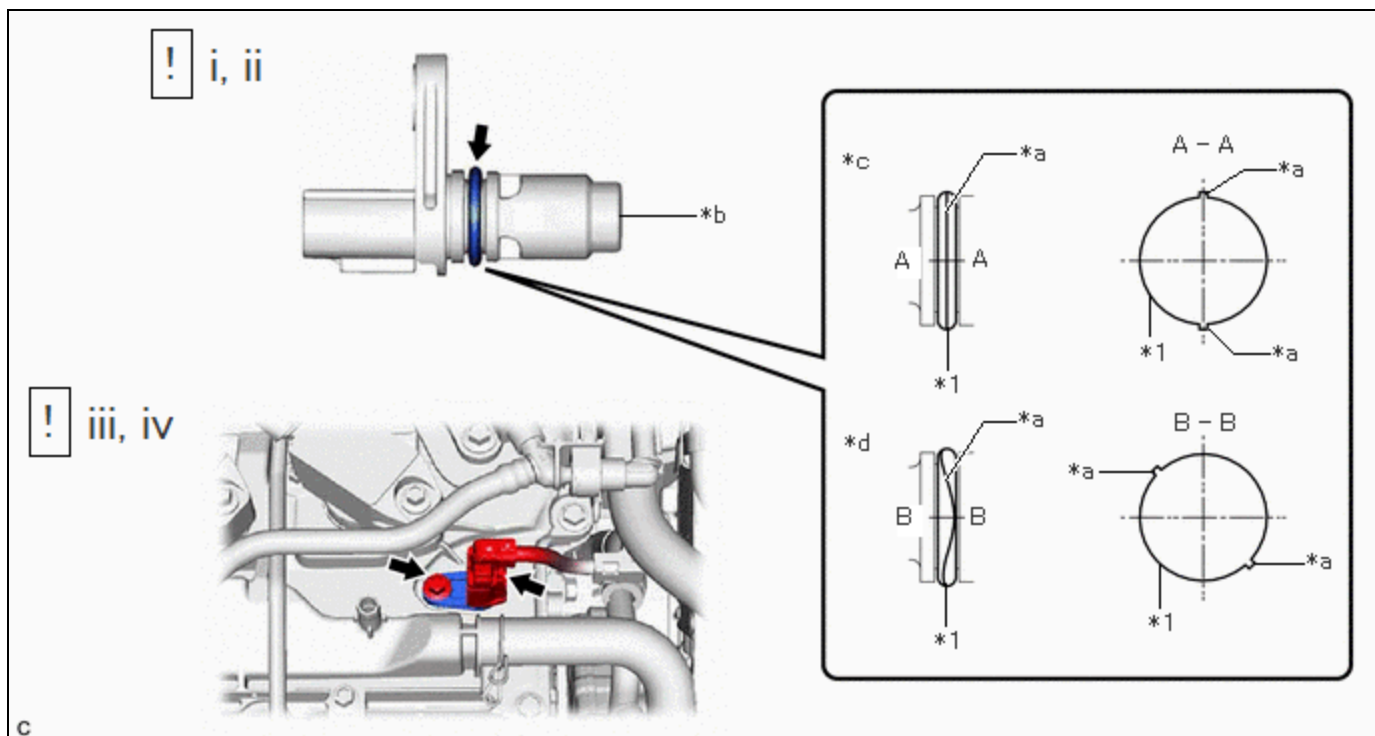
**7.5 N·m {76 kgf·cm, 66 in·lbf}**

#### NOTICE:

- If the camshaft position sensor has been struck or dropped, replace it.
- Make sure that the O-ring is not cracked or moved out of place when installing the camshaft position sensor.

(4) Connect the camshaft position sensor connector.

## 2. INSTALL CAMSHAFT POSITION SENSOR (for Intake Side)



*1	O-ring	-	-
*a	Seam	*b	Camshaft Position Sensor Tip
*c	OK	*d	NG

(1) Perform this procedure only when reusing the camshaft position sensor.

1. Clean the O-ring groove of the camshaft position sensor.

### NOTICE:

Make sure the O-ring groove is free of foreign matter.

2. Install a new O-ring to the camshaft position sensor.

### NOTICE:

Set the O-ring on the tip of the camshaft position sensor and roll it into the O-ring groove with bare hands to install it.

3. Check if the O-ring is twisted.

### HINT:

Check the entire circumference of the seam of the O-ring for twisting.

(2) Apply a light coat of engine oil to the O-ring of the camshaft position sensor.

(3) Using an 8 mm socket wrench, install the camshaft position sensor to the cylinder head cover sub-assembly with a new bolt.

### Torque:

**7.5 N·m {76 kgf·cm, 66 in·lbf}**

### NOTICE:

- If the camshaft position sensor has been struck or dropped, replace it.
- Make sure that the O-ring is not cracked or moved out of place when installing the camshaft position sensor.

(4) Connect the camshaft position sensor connector.

### 3. INSPECT FOR ENGINE OIL LEAK

Click here [INFO](#)

