



YOUR CURRENT VEHICLE

2023 Toyota Prius

Installation (2023 Prius Prius Prime From 03/2023)

CAUTION / NOTICE / HINT**NOTE**

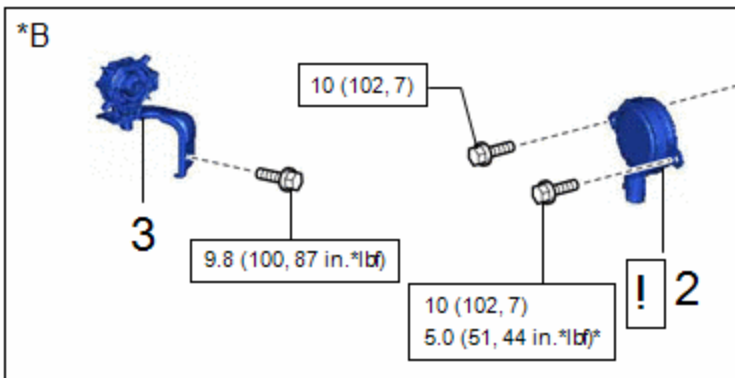
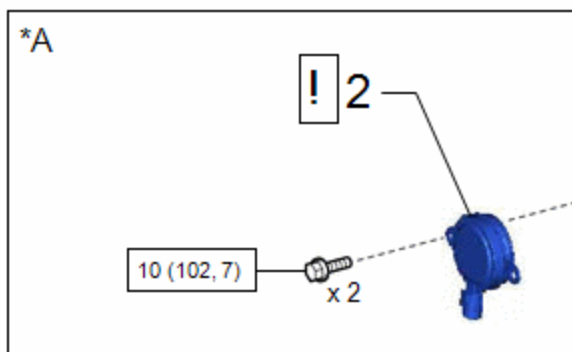
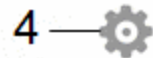
This procedure includes the installation of small-head bolts. Refer to Small-Head Bolts of Basic Repair Hint to identify the small-head bolts.

Click here

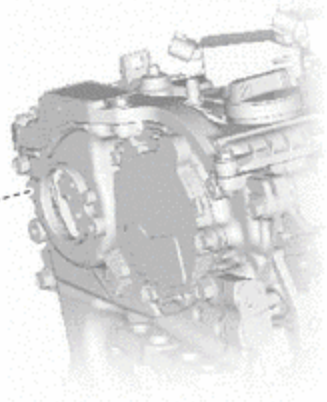
[2023 MY Prius Prius Prime \[03/2023 - \]; INTRODUCTION: REPAIR INSTRUCTION: PRECAUTION](#)

CAUTION / NOTICE / HINT

COMPONENTS (INSTALLATION)




C




| Procedure | | Part Name Code | | | |
|-----------|--|----------------|---|---|---|
| 1 | CAM TIMING OIL CONTROL SOLENOID O-RING | 15370A | 2023 MY Prius Prius Prime [03/2023 -]; M20A-FXS (ENGINE CONTROL): CAMSHAFT OIL CONTROL SOLENOID: INSTALLATION+ | - | - |
| 2 | CAM TIMING OIL CONTROL SOLENOID ASSEMBLY | 15370 | 2023 MY Prius Prius Prime [03/2023 -]; M20A-FXS (ENGINE CONTROL): CAMSHAFT OIL CONTROL SOLENOID: INSTALLATION+ | - | - |
| 3 | NO. 2 COOLER BRACKET | 88689F | - | - | - |

| | | | | | |
|---|-----------------------------|---|---|---|---|
| 4 | INSPECT FOR ENGINE OIL LEAK | - | - | - | 2023 MY Prius Prius Prime [03/2023 -]; M20A-FXS (ENGINE CONTROL): CAMSHAFT OIL CONTROL SOLENOID: INSTALLATION+ |
|---|-----------------------------|---|---|---|---|

| | | | |
|---|---|----|------------------------------------|
| *A | for HEV Model | *B | for PHEV Model |
|  | N*m (kgf*cm, ft.*lbf): Specified torque | * | For use with an offset long wrench |
| • | Non-reusable part | ★ | Precoated part |

PROCEDURE


1. INSTALL CAM TIMING OIL CONTROL SOLENOID O-RING



NOTE

HINT:

Perform this procedure only when replacement of the cam timing oil control solenoid O-ring is necessary.

 i, ii

a.



i. Clean the O-ring groove of the cam timing oil control solenoid assembly.

NOTE

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

- ii. Install a new cam timing oil control solenoid O-ring to the cam timing oil control solenoid assembly.

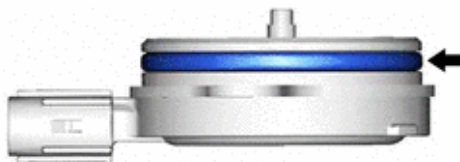
NOTE

Do not damage the cam timing oil control solenoid O-ring when installing it.

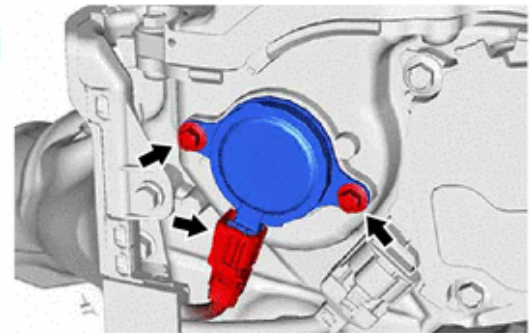
2. INSTALL CAM TIMING OIL CONTROL SOLENOID ASSEMBLY

- a. for HEV Model:

! i



! ii, iii



c

- i. Apply a light coat of engine oil to the cam timing oil control solenoid O-ring.

NOTE

If reusing the cam timing oil control solenoid assembly, be sure to inspect the cam timing oil control solenoid O-ring.

- ii. Using an 8 mm socket wrench, install the cam timing oil control solenoid assembly to the No. 2 timing chain cover assembly with 2 new bolts.

Torque

| N.m | kgf.cm | in.lbf |
|-----|--------|--------|
| 10 | 102 | 7 |

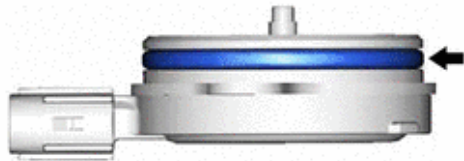
NOTE

- If the cam timing oil control solenoid assembly has been struck or dropped, replace it.
- Make sure that the cam timing oil control solenoid O-ring is not cracked or moved out of place when installing the cam timing oil control solenoid assembly.

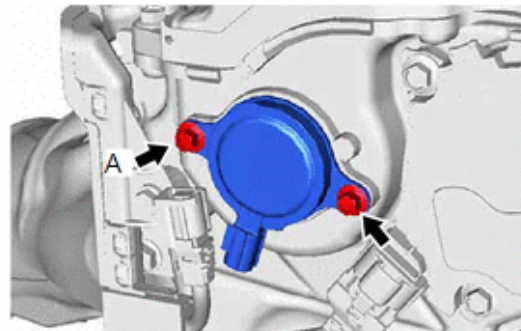
iii. Connect the cam timing oil control solenoid assembly connector.

b. for PHEV Model:

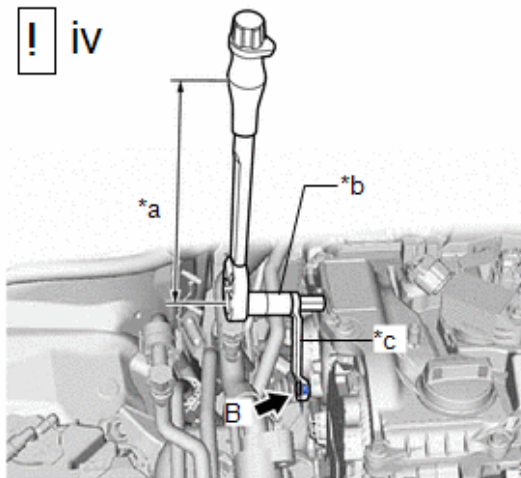
! i



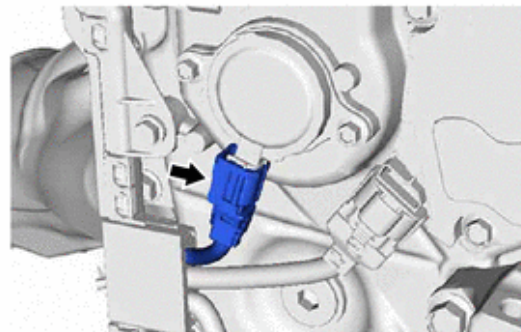
! ii, iii



! iv



v



c

| | | | |
|----|------------------------------|----|-----------------------------|
| *a | Torque Wrench Fulcrum Length | *b | 10 mm Hexagon Socket Wrench |
| *c | 8 x 10 mm Offset Long Wrench | - | - |

- i. Apply a light coat of engine oil to the cam timing oil control solenoid O-ring.

NOTE

If reusing the cam timing oil control solenoid assembly, be sure to inspect the cam timing oil control solenoid O-ring.

- ii. Using an 8 mm socket wrench and 8 x 10 mm offset long wrench, temporarily install the cam timing oil control solenoid assembly to the No. 2 timing chain cover assembly with 2 new bolts.

NOTE

- If the cam timing oil control solenoid assembly has been struck or dropped, replace it.
- Make sure that the cam timing oil control solenoid O-ring is not cracked or moved out of place when installing the cam timing oil control solenoid assembly.

- iii. Using an 8 mm socket wrench, tighten the bolt (A).

Torque

| N.m | kgf.cm | in.lbf |
|------------|---------------|---------------|
| 10 | 102 | 7 |

- iv. Using an 8 x 10 mm offset long wrench and 10 mm hexagon socket wrench, tighten the bolt (B).

Torque

| Specified tightening torque | | |
|------------------------------------|---------------|---------------|
| N.m | kgf.cm | in.lbf |
| 10 | 102 | 7 |

NOTE

HINT:

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

wrench.

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- When using an 8 x 10 mm offset long wrench (fulcrum length of 164.5 mm (6.48 in.)) + torque wrench (fulcrum length of 162 mm (6.38 in.)):

5.0 N*m (51 kgf*cm, 44 in.*lbf)

v. Connect the cam timing oil control solenoid assembly connector.

3. INSTALL NO. 2 COOLER BRACKET (for PHEV Model)

Torque

| N.m | kgf.cm | ft.lbf |
|-----|--------|--------|
| 9.8 | 100 | 87 |

4. INSPECT FOR ENGINE OIL LEAK

[Click here](#)

[2023 MY Prius Prius Prime \[03/2023 - \]; MAINTENANCE: M20A-FXS OIL AND OIL FILTER: REPLACEMENT+](#)