

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000002BNNM
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: M20A-FXS (COOLING): WATER PUMP: REMOVAL; 2023 - 2024 MY Prius Prius Prime [03/2023 -]		

REMOVAL

CAUTION / NOTICE / HINT

The necessary procedures (adjustment, calibration, initialization or registration) that must be performed after parts are removed and installed, or replaced during engine water pump assembly (water inlet housing) removal/installation are shown below.

Necessary Procedures After Parts Removed/Installed/Replaced

REPLACED PART OR PERFORMED PROCEDURE	NECESSARY PROCEDURE	EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	LINK
<ul style="list-style-type: none"> Replacement of throttle body with motor assembly Cleaning the deposits from the throttle body with motor assembly Gas leak from exhaust system is repaired 	Inspection After Repair	<ul style="list-style-type: none"> Poor idle, etc. Engine start function, etc. 	INFO

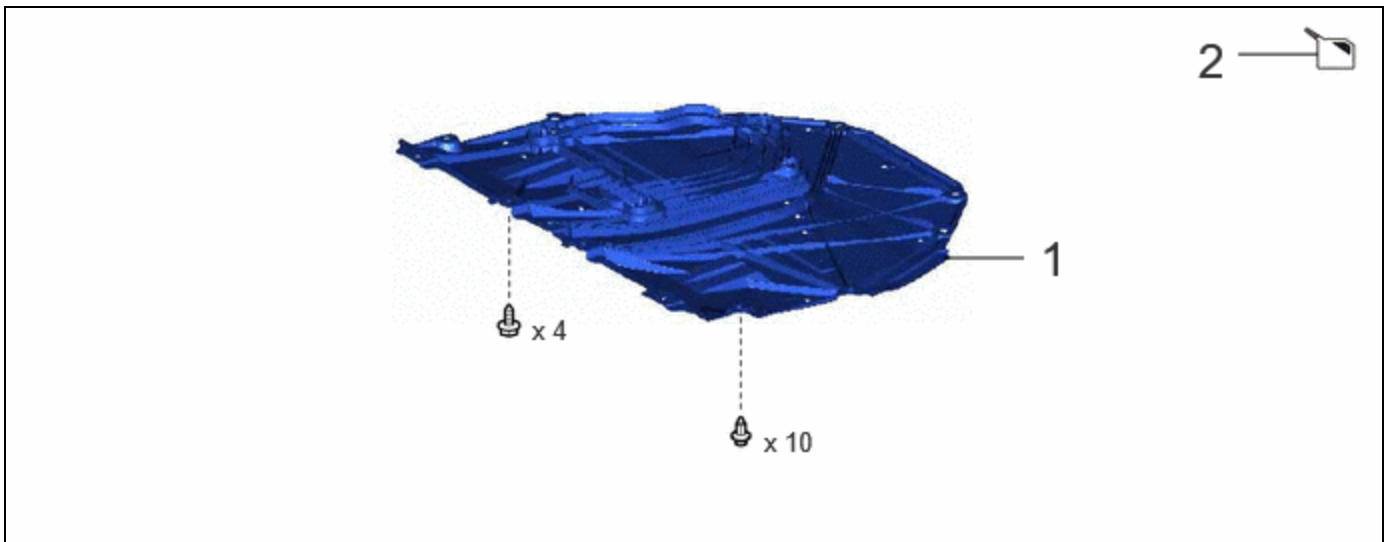
NOTICE:




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

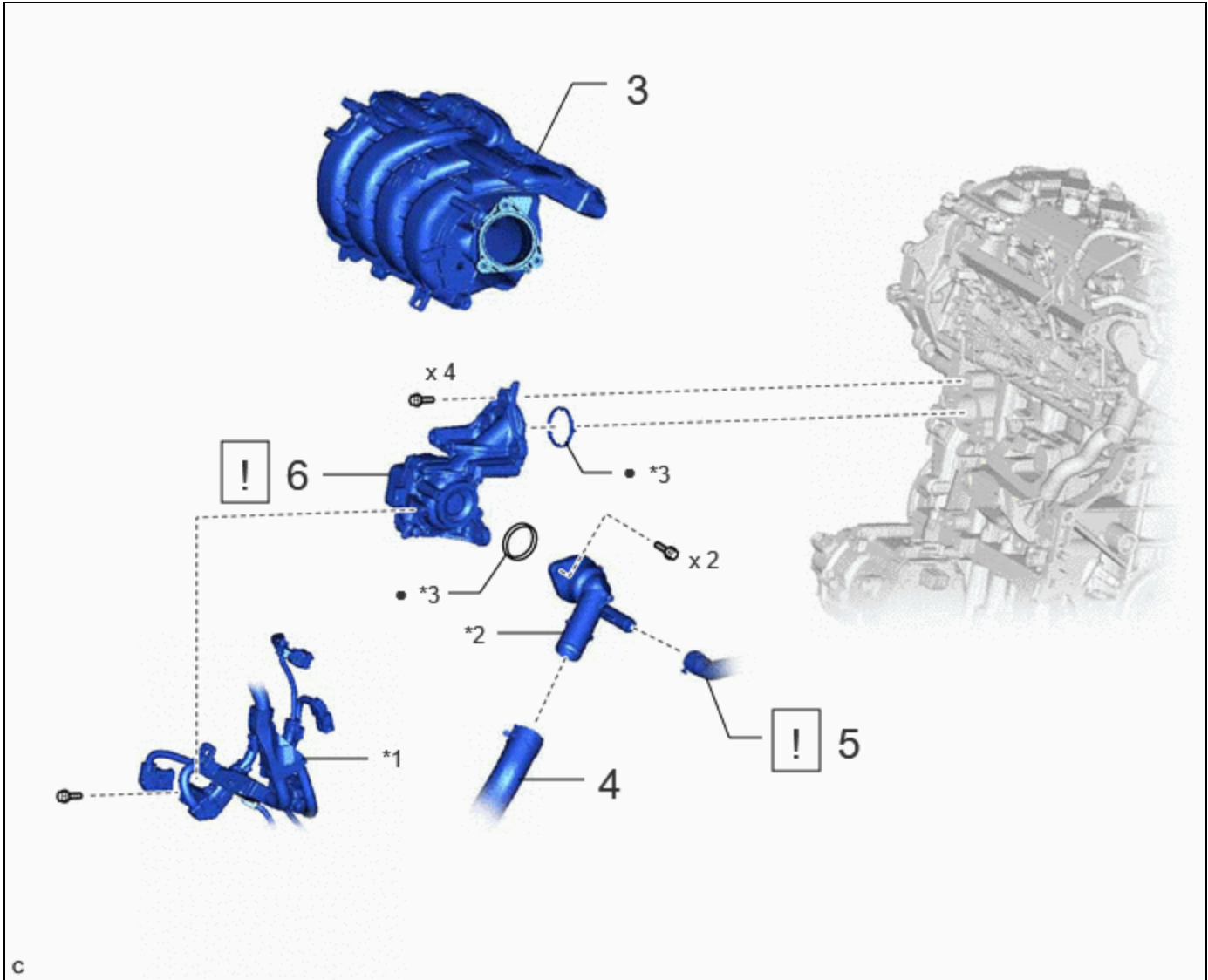
Click here [INFO](#)




CAUTION / NOTICE / HINT

COMPONENTS (REMOVAL)



PROCEDURE		PART NAME CODE			
1	NO. 1 ENGINE UNDER COVER ASSEMBLY	51410	-	-	-
2	DRAIN ENGINE COOLANT (for Engine)	-	-	INFO	-



PROCEDURE		PART NAME CODE			
3	INTAKE MANIFOLD	17111	-	-	-
4	NO. 2 RADIATOR HOSE	16572D	-	-	-
5	NO. 7 WATER BY-PASS HOSE	16295	INFO	-	-
6	ENGINE WATER PUMP ASSEMBLY (WATER INLET HOUSING)	16032	INFO	-	-

*1	SENSOR WIRE	*2	WATER INLET WITH THERMOSTAT SUB-ASSEMBLY
*3	GASKET	-	-
•	Non-reusable part	-	-

PROCEDURE

1. REMOVE NO. 1 ENGINE UNDER COVER ASSEMBLY

for HEV Model: Click here [INFO](#)

for PHEV Model: Click here [INFO](#)

2. DRAIN ENGINE COOLANT (for Engine)

Click here [INFO](#)

3. REMOVE INTAKE MANIFOLD

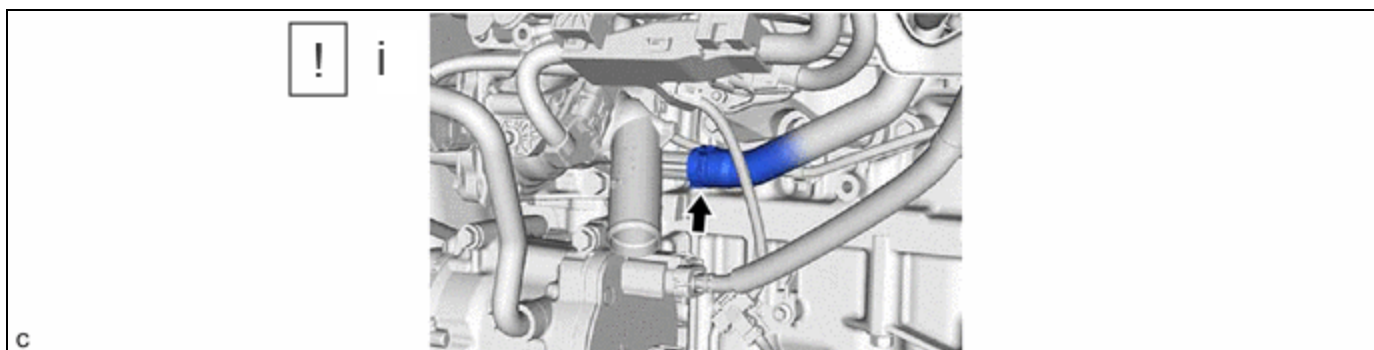
Click here [INFO](#)

4. DISCONNECT NO. 2 RADIATOR HOSE

for HEV Model: Click here [INFO](#)

for PHEV Model: Click here [INFO](#)

5. DISCONNECT NO. 7 WATER BY-PASS HOSE



(1) Slide the clip and disconnect the No. 7 water by-pass hose from the water inlet with thermostat sub-assembly.

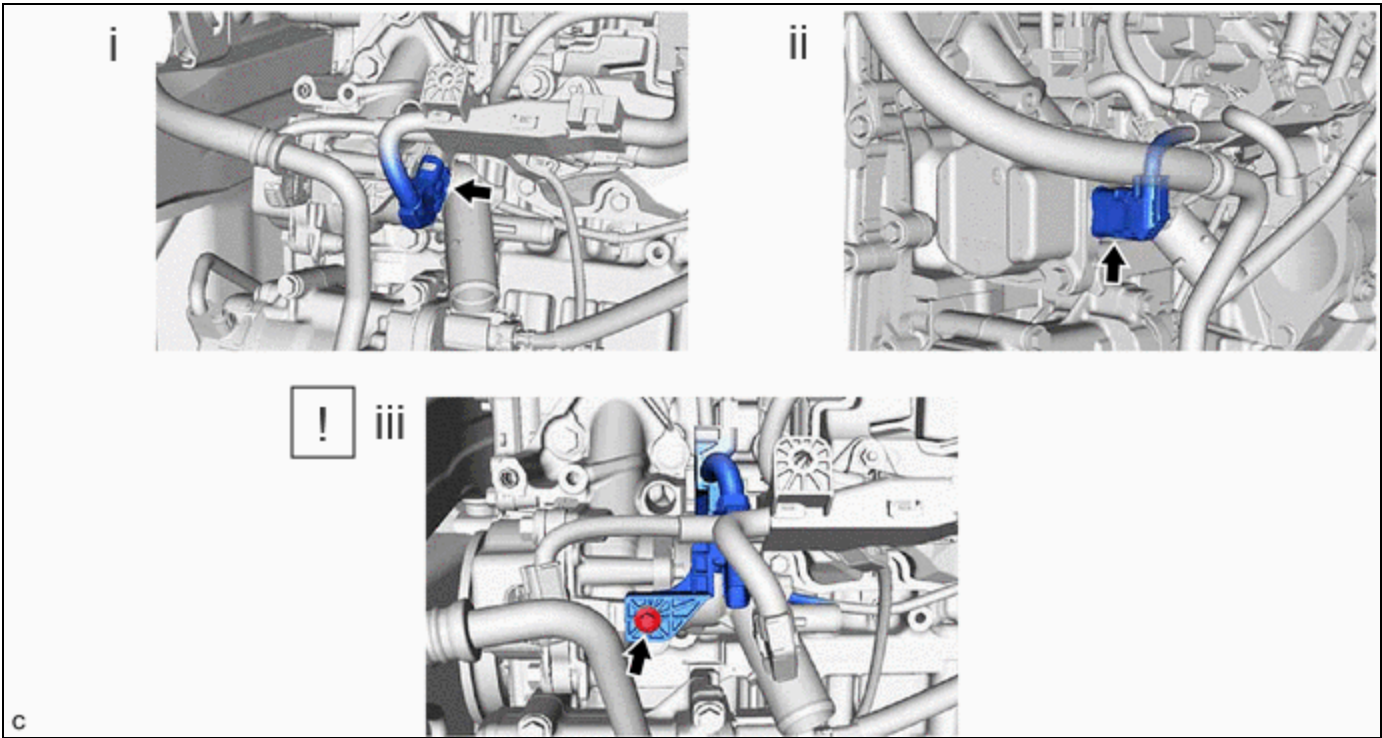
NOTICE:

- Do not apply force to the water inlet with thermostat sub-assembly when disconnecting the No. 7 water by-pass hose.
- Do not damage the water inlet with thermostat sub-assembly.

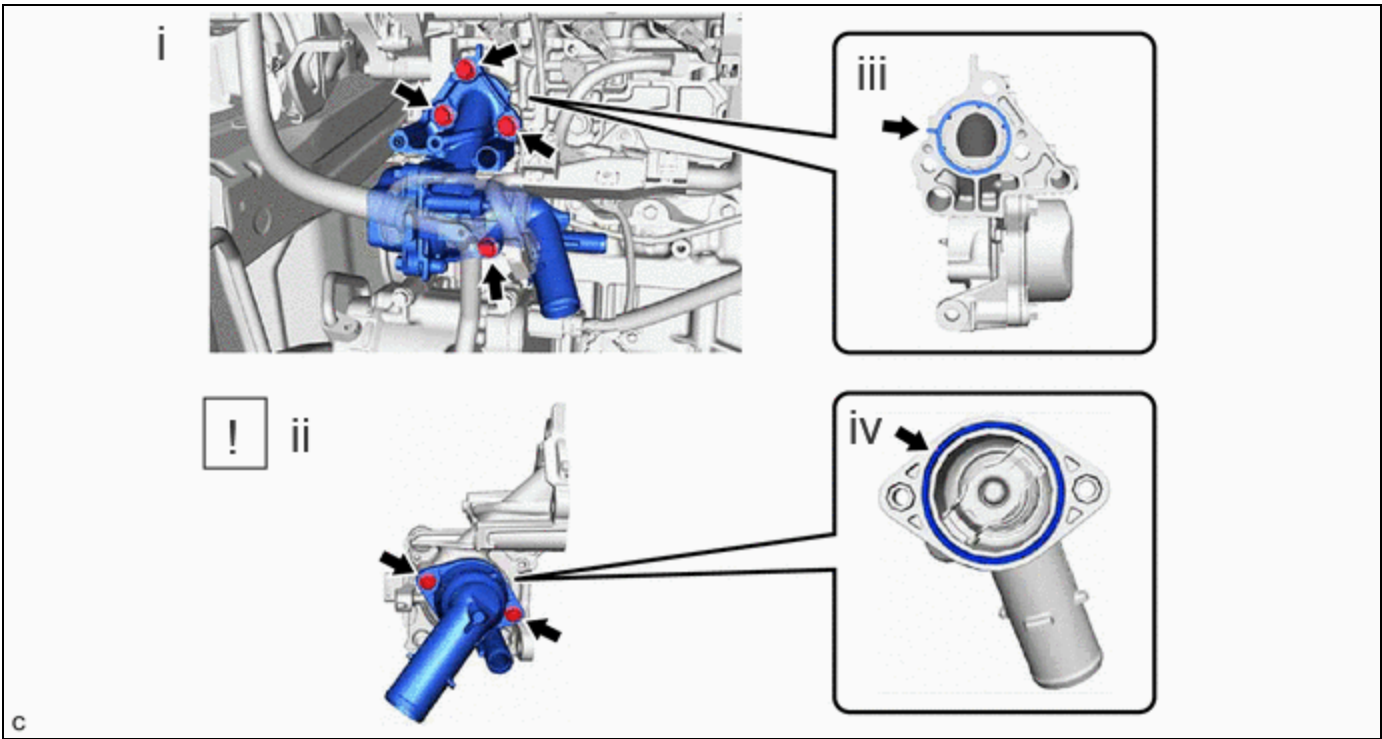
HINT:

When disconnecting the No. 7 water by-pass hose, slide the clip, rotate the hose and pull it straight off the pipe.

6. REMOVE ENGINE WATER PUMP ASSEMBLY (WATER INLET HOUSING)



- (1) Disconnect the sensor wire connector.
- (2) Disconnect the engine water pump assembly (water inlet housing) connector.
- (3) Using an 8 mm socket wrench, remove the bolt and disconnect the sensor wire from the engine water pump assembly (water inlet housing).



- (1) Remove the 4 bolts and engine water pump assembly (water inlet housing) from the cylinder block assembly.
- (2) Using an 8 mm socket wrench, remove the 2 bolts and water inlet with thermostat sub-assembly.
- (3) Remove the gasket from the engine water pump assembly (water inlet housing).
- (4) Remove the gasket from the water inlet with thermostat sub-assembly.

