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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [03/2023 - ]
<b>Title:</b> M20A-FXS (ENGINE CONTROL): ENGINE COOLANT TEMPERATURE SENSOR: 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 coolant temperature sensor 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
Replacement of engine coolant temperature sensor	Inspection after repair	<ul style="list-style-type: none"> <li>Poor idle, etc.</li> <li>Engine start function, etc.</li> </ul>	<a href="#">INFO</a>
Replacement of ECM	Perform Vehicle Identification Number (VIN) registration	DTC is output	<a href="#">INFO</a>
	ECU configuration	-	<a href="#">INFO</a>
	Update ECU security key	Vehicle Control History (RoB) are stored	<a href="#">INFO</a>
Replacement of inverter with converter assembly	ECU configuration	-	<a href="#">INFO</a>
	Resolver learning	<ul style="list-style-type: none"> <li>DTCs are stored</li> <li>Slight vibration at a vehicle speed of 5 km/h (3 mph) or less</li> <li>Shock or vibration during acceleration</li> </ul>	for M20A-FXS HEV model: <a href="#">INFO</a> for M20A-FXS PHEV Model: <a href="#">INFO</a>
<b>for PHEV Model:</b> Replacement of service plug grip	High voltage fuse accumulated load history reset	DTCs are stored	<a href="#">INFO</a>

#### **HINT:**

When the cable is disconnected / reconnected to the auxiliary battery terminal, systems temporarily stop operating. However, each system has a function that completes learning the first time the system is used.

#### **Items for which learning is completed by driving the vehicle**

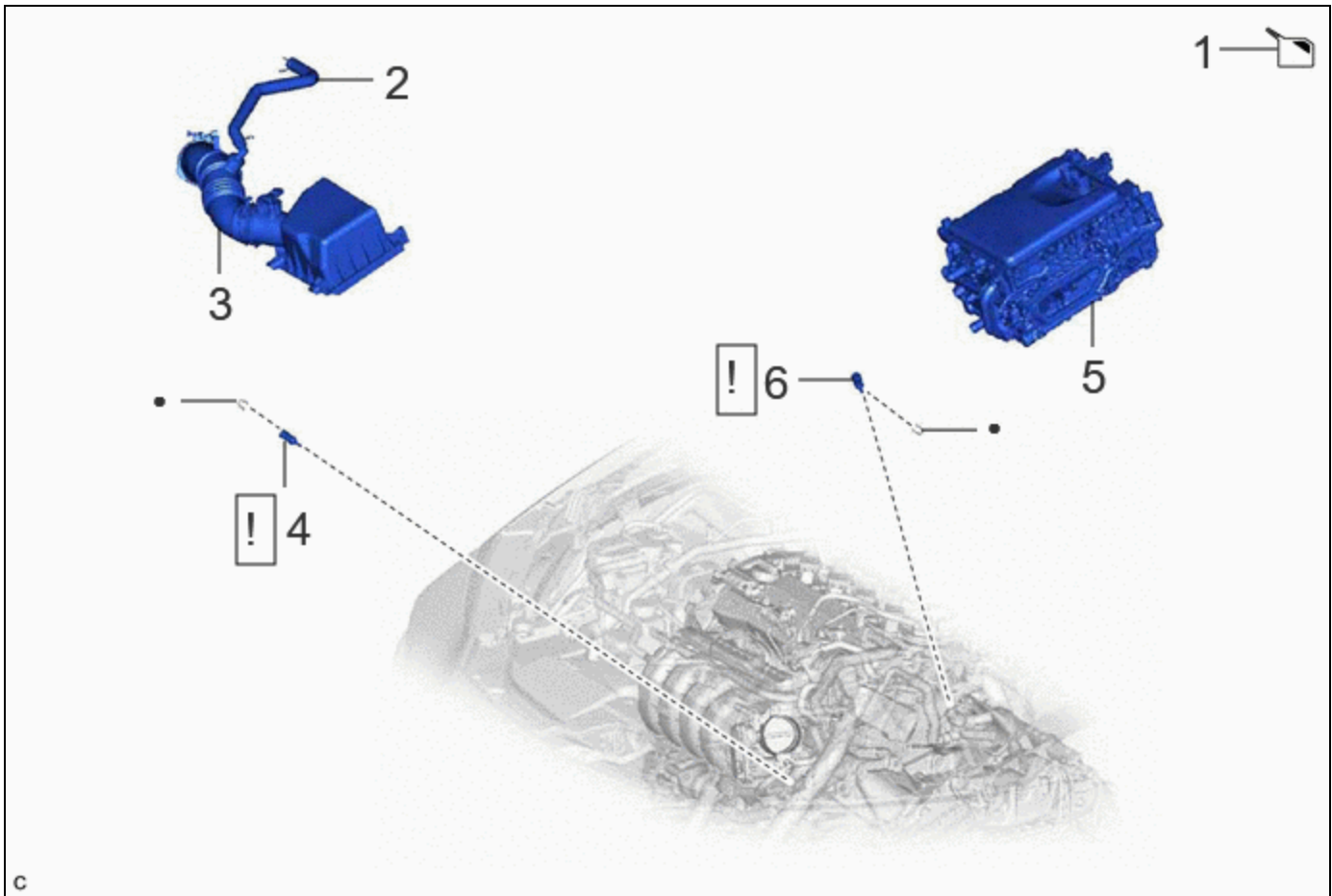
EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	NECESSARY PROCEDURE	LINK
Front Camera System	Drive the vehicle straight ahead at 35 km/h (22 mph) or more for 5 seconds or more.	<a href="#">INFO</a>

### Items for which learning is completed by operating the vehicle normally

EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	NECESSARY PROCEDURE	LINK
Power Door Lock Control System*1 <ul style="list-style-type: none"> <li>• <a href="#">Back door opener</a></li> </ul>	Perform door unlock operation with door control switch or electrical key transmitter sub-assembly switch.	<a href="#">INFO</a>
Power Back Door System*2	Reset back door close position	<a href="#">INFO</a>
Air Conditioning System	<p><b>for HEV Model:</b></p> <p>After the ignition switch is turned to ON, the servo motor standard position is recognized.</p> <p><b>for PHEV Model:</b></p> <p>After the ignition switch is turned to ON, the servo motor and expansion valve standard position is recognized.</p>	-
<p>*1: w/o Power Back Door System</p> <p>*2: w/ Power Back Door System</p>		

## CAUTION / NOTICE / HINT

### COMPONENTS (REMOVAL)



	PROCEDURE	PART NAME CODE			
1	DRAIN ENGINE COOLANT (for Engine)	-	-	<a href="#">INFO</a>	-
2	NO. 2 VENTILATION HOSE	12262	-	-	-
3	AIR CLEANER CAP WITH AIR CLEANER HOSE	-	-	-	-
4	NO. 2 ENGINE COOLANT TEMPERATURE SENSOR	89422N	<a href="#">INFO</a>	-	-
5	INVERTER WITH CONVERTER ASSEMBLY	G9200	-	-	-
6	ENGINE COOLANT TEMPERATURE SENSOR	89422A	<a href="#">INFO</a>	-	-

•	Non-reusable part	-	-
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## PROCEDURE

### 1. DRAIN ENGINE COOLANT (for Engine)

Click here [INFO](#)

### 2. DISCONNECT NO. 2 VENTILATION HOSE

Click here [INFO](#)

### 3. REMOVE AIR CLEANER CAP WITH AIR CLEANER HOSE

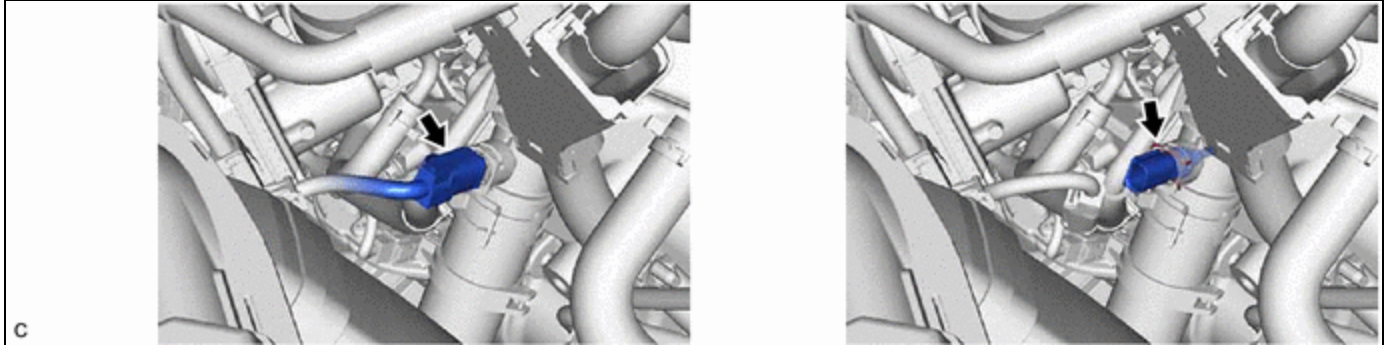
Click here [INFO](#)

#### 4. REMOVE NO. 2 ENGINE COOLANT TEMPERATURE SENSOR



**NOTICE:**

If the No. 2 engine coolant temperature sensor has been struck or dropped, replace it.



#### 5. REMOVE INVERTER WITH CONVERTER ASSEMBLY

- for HEV Model:

Click here [INFO](#)

- for PHEV Model:

Click here [INFO](#)

#### 6. REMOVE ENGINE COOLANT TEMPERATURE SENSOR



**NOTICE:**

If the engine coolant temperature sensor has been struck or dropped, replace it.

