12/16/24, 7:00 PM

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HYBRID / BATTERY CONTROL: HYBRID BATTERY SYSTEM (for PHEV Model): P19CF62; Hybrid/EV Battery Pack Coolant Tem...

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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 - ]		
Title: HYBRID / BATTERY CONTROL: HYBRID BATTERY SYSTEM (for PHEV Model): P19CF62; Hybrid/EV Battery         Pack Coolant Temperature Sensor System Signal Compare Failure; 2023 - 2024 MY Prius Prime [03/2023 - ]				

DTC	P19CF62	Hybrid/EV Battery Pack Coolant Temperature Sensor System Signal Compare Failure
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## **DESCRIPTION**

The battery ECU assembly monitors the HV battery coolant temperature using the battery pack coolant temperature sensors (thermistors).

The battery ECU assembly detects malfunctions in the battery pack coolant temperature sensors (thermistors) and outputs DTCs.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	WARNING INDICATE		PRIORITY	NOTE
P19CF62	Coolant Temperature	Difference between the values of 4 battery pack coolant temperature sensors is the specified value or more (1 trip detection logic)	<ul> <li>No. 1 traction battery cooler tube (duct inlet 1)</li> <li>No. 1 traction battery cooler conductor (duct outlet 1)</li> <li>Wire harness or connector</li> <li>Battery ECU assembly</li> </ul>	Comes on	Master Warning: Comes on	HV Battery	A	SAE Code: P19CF

## **MONITOR DESCRIPTION**

The battery ECU assembly detects malfunctions in the battery pack coolant temperature sensors (thermistors) and outputs DTCs.

# **MONITOR STRATEGY**

I Related DTCs	P19CF (INF P19CF62): Hybrid/EV Battery Pack Coolant Temperature Sensor Sign Compare Failure	
Required sensors/components	Air Conditioning Thermistor	

https://techinfo.toyota.com/t3Portal/resources/jsp/siviewer/index.jsp?dir=rm/RM41D0U&href=xhtml/RM10000002A0DG.html&locale=en&User=false&... 1/5 12/16/24, 7:00 PM

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Frequency of operation	Continuous	
Duration	TMC's intellectual property	
MIL operation	1 driving cycle	
Sequence of operation	None	

## **TYPICAL ENABLING CONDITIONS**

The monitor will run whenever the following DTCs are not stored	TMC's intellectual property
Other conditions belong to TMC's intellectual property	-

# **TYPICAL MALFUNCTION THRESHOLDS**

TMC's intellectual property

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## **COMPONENT OPERATING RANGE**

Battery ECU assembly	DTC P19CF (INF P19CF62) is not detected
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## **CONFIRMATION DRIVING PATTERN**

### HINT:

• After repair has been completed, clear the DTC and then check that the vehicle has returned to normal by performing the following All Readiness check procedure.

### Click here

• When clearing the permanent DTCs, refer to the "CLEAR PERMANENT DTC" procedure.

## Click here

- 1. Clear the DTCs (even if no DTCs are stored, perform the clear DTC procedure).
- 2. Turn the ignition switch off and wait for 30 minutes or more.[\*1]
- 3. Turn the ignition switch to ON (READY) and wait for 1 minute or more.[\*2]

### HINT:

### [\*1] to [\*2]: Normal judgment procedure.

The normal judgment procedure is used to complete DTC judgment and also used when clearing permanent DTCs.

- 4. Enter the following menus: Powertrain / HV Battery / Utility / All Readiness.
- 5. Check the DTC judgment result.

### HINT:

- If the judgment result shows NORMAL, the system is normal.
- If the judgment result shows ABNORMAL, the system has a malfunction.
- If the judgment result shows INCOMPLETE or N/A, perform the normal judgment procedure again.

## WIRING DIAGRAM

Refer to the wiring diagram for DTC P0C4211.

Click here

# **CAUTION / NOTICE / HINT**

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#### **CAUTION:**

Refer to the precautions before inspecting high voltage circuit.

Click here

#### **NOTICE:**

• After the ignition switch is turned off, there may be a waiting time before disconnecting the auxiliary negative (-) battery terminal.

Click here

• When disconnecting and reconnecting the auxiliary battery.

#### HINT:

When disconnecting and reconnecting the auxiliary battery, there is an automatic learning function that completes learning when the respective system is used.

Click here

## **PROCEDURE**

1.

## CHECK DTC OUTPUT (HV BATTERY)

(a) Check for DTCs.

#### Powertrain > HV Battery > Trouble Codes

RESULT	PROCEED TO
"P19CF62" only is output.	A
DTCs except "P19CF62" of hybrid battery system are output.	В

## **B** GO TO DTC CHART (HYBRID BATTERY SYSTEM)



# 2. CHECK CONNECTOR CONNECTION CONDITION (BATTERY ECU ASSEMBLY) HINT: Click here NO OK



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