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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> HYBRID / BATTERY CONTROL: HYBRID CONTROL SYSTEM (for M20A-FXS): P1C8679; Transmission (Input) Mechanical Linkage Failure; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

<b>DTC</b>	<b>P1C8679</b>	<b>Transmission (Input) Mechanical Linkage Failure</b>
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## DTC SUMMARY

Refer to the DTC summary for DTC P1C7779.

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## DESCRIPTION

Refer to the description for DTC P1C7779.

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DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	NOTE
P1C8679	Transmission (Input) Mechanical Linkage Failure	Hybrid vehicle transaxle malfunction (input system lock):  When the vehicle is stopped, an engine cranking signal is sent but the generator (MG1) does not rotate.  The generator (MG1) or the engine does not rotate, or the planetary gear unit is malfunctioning. (1 trip detection logic)	<ul style="list-style-type: none"> <li>Hybrid vehicle transaxle assembly</li> <li>Transmission input damper assembly</li> <li>Engine</li> </ul>	Does not come on	Master Warning: Comes on	Hybrid Control	A	SAE Code: P3147

## CONFIRMATION DRIVING PATTERN

### HINT:

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

Click here [INFO](#)

1. Clear the DTCs (even if no DTCs are stored, perform the clear DTC procedure).
2. Turn the ignition switch off and wait for 2 minutes or more.
3. With the vehicle stopped and the shift lever in P, turn the ignition switch to ON (READY) and gradually depress the accelerator pedal so that the engine starts.
4. Enter the following menus: Powertrain / Hybrid Control / Utility / All Readiness.
5. Check the DTC judgment result.

**HINT:**

- o If the judgment result shows NORMAL, the system is normal.
- o If the judgment result shows ABNORMAL, the system has a malfunction.
- o If the judgment result shows INCOMPLETE, perform driving pattern again.

**CAUTION / NOTICE / HINT**

**HINT:**

- Engine lock or a mechanical malfunction has occurred inside the hybrid vehicle transaxle assembly.
- If this DTC is output, the engine or gears in the transaxle may have seized. Before performing this inspection, check the engine oil, hybrid transaxle fluid, coolant (for Engine) and coolant (for Inverter) levels.

**PROCEDURE**

<b>1.</b>	<b>CHECK DTC OUTPUT (HYBRID CONTROL)</b>
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Pre-procedure1

(a) None.

Procedure1

(b) Check for DTCs.

**Powertrain > Hybrid Control > Trouble Codes**

RESULT	PROCEED TO
P1C8679 only is output, or DTCs except the ones in the table below are also output.	A
Any of the following DTCs including pending DTCs are also output.	B

MALFUNCTION CONTENT	RELEVANT DTC	
Sensor and actuator circuit malfunction	P1C8779	Generator Mechanical Linkage Failure
	P1C8879	Planetary Gear Mechanical Linkage Failure

**HINT:**

P1C8679 may be output as a result of the malfunction indicated by the DTCs above.

Post-procedure1

(c) Turn the ignition switch off.

**B** **GO TO DTC CHART (HYBRID CONTROL SYSTEM)**

**A**



<b>2.</b>	<b>CHECK CRANKSHAFT PULLEY REVOLUTION (P POSITION)</b>
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**NG** **GO TO STEP 7**

**OK**



<b>3.</b>	<b>CLEAR DTC</b>
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Click here [INFO](#)

**NEXT**



<b>4.</b>	<b>CHECK ENGINE RACING</b>
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**NG** **REPLACE HYBRID VEHICLE TRANSAXLE ASSEMBLY**

[INFO](#)

**OK**



<b>5.</b>	<b>CHECK CREEP MOVEMENT</b>
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**NG** **REPLACE HYBRID VEHICLE TRANSAXLE ASSEMBLY**

[INFO](#)

**OK**  
▼

<b>6.</b>	<b>INSPECT ENGINE SPEED</b>
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RESULT	PROCEED TO
The absolute value of the difference is less than 500 rpm.	A
The absolute value of the difference is 500 rpm or more continuously for 1 second.	B

**A** ▶ **REPLACE HYBRID VEHICLE TRANSAXLE ASSEMBLY**  
[INFO](#)

**B** ▶ **REPLACE TRANSMISSION INPUT DAMPER ASSEMBLY**  
[INFO](#)

<b>7.</b>	<b>CHECK CRANKSHAFT PULLEY REVOLUTION (N POSITION)</b>
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**OK** ▶ **REPLACE HYBRID VEHICLE TRANSAXLE ASSEMBLY**  
[INFO](#)

**NG** ▶ **REPAIR OR REPLACE ENGINE**

