

<b>Last Modified:</b> 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM100000028ZU9
<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): P1C8779,P1C8879; Generator Mechanical Linkage Failure; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

<b>DTC</b>	<b>P1C8779</b>	<b>Generator Mechanical Linkage Failure</b>
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<b>DTC</b>	<b>P1C8879</b>	<b>Planetary Gear Mechanical Linkage Failure</b>
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## DTC SUMMARY

Refer to the DTC summary for DTC P1C7779.

Click here [INFO](#)

## DESCRIPTION

Refer to the description for DTC P1C7779.

Click here [INFO](#)

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	NOTE
P1C8779	Generator Mechanical Linkage Failure	Generator (MG1) locked:  The generator (MG1) does not rotate when the vehicle is being driven in EV drive mode. (1 trip detection logic)	Hybrid vehicle transaxle assembly	Does not come on	Master Warning:  Comes on	Hybrid Control	A	SAE Code:  P3147
P1C8879	Planetary Gear Mechanical Linkage Failure	Planetary gear locked:  The 3 planetary gears rotate all together, not individually. The planetary gear carrier is seized. (1 trip detection logic)	Hybrid vehicle transaxle assembly	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 DTC and then check that the vehicle has returned to normal by performing the following All Readiness check procedure.

[Click here](#) 

### DTC P1C8779

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. Turn the ignition switch to ON (READY).
4. Drive the vehicle at approximately 30 km/h (19 mph) or more for approximately 10 seconds or more while maintaining a stable vehicle speed.

(If generator (MG1) does not rotate in this condition, DTC P1C8779 will be stored.)

5. Enter the following menus: Powertrain / Hybrid Control / Utility / All Readiness.
6. 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, perform driving pattern again.

### DTC P1C8879

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. When the vehicle is stopped, turn the ignition switch to ON (READY) and gradually depress the accelerator pedal so that the engine starts.
4. Drive the vehicle at approximately 30 km/h (19 mph) or more for approximately 10 seconds or more while maintaining the vehicle speed.
5. Enter the following menus: Powertrain / Hybrid Control / Utility / All Readiness.
6. 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, perform driving pattern again.

## CAUTION / NOTICE / HINT

#### HINT:

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>REPLACE HYBRID VEHICLE TRANSAXLE ASSEMBLY</b>
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#### HINT:

[Click here](#) 

**NEXT**  **END**

