

12V Auxiliary Battery Charge May Deplete When PHEV Charging Cable has an Extended Connection Without Charging

Service Category Engine/Hybrid System

Section Starting

Market USA



Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2023 - 2024	Prius Prime	

Introduction

Some 2023 – 2024 model year Prius Prime vehicles may exhibit a condition where the 12V auxiliary battery charge may deplete due to the plug-in charge control ECU not entering sleep mode when the Plug-in Hybrid Electric Vehicle (PHEV) charging cable has an extended connection without charging (for more than two hours). The plug-in charge control ECU has been modified to reduce the possibility of this condition. Follow the Repair Procedure in this bulletin to address this condition.

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Warranty Information

OP CODE	DESCRIPTION	TIME	OFFP	T1	T2
EL2419	Plug-in Charge Control ECU Reprogramming	0.7	89260-471##*	17	74

*Warranty claim MUST be submitted with the correct 10-digit OFFP. Choose the correct OFFP for the vehicle being repaired by searching for the parts in the Electronic Parts Catalog using the VIN filter.

APPLICABLE WARRANTY

- This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.
- For 2023 – 2024 Model Year Prius Prime vehicles equipped with a California Certified Emission Control System that are registered and operated in California or any state that adopts California emission warranty – Partial Zero Emission Vehicle (PZEV) / Transitional Zero Emission Vehicle (TZEV) Emission Warranty Coverage is in effect for 15 years or 150,000 miles, from the vehicle's in-service date, whichever occurs first. (Please reference Warranty Policy 4.7 and/or the Owner's Warranty & Maintenance Guide for additional information).
- For 2023 Model Year Prius Prime vehicles equipped with a California Certified Emission Control System that are registered and operated in Delaware, Virginia, or Washington – PZEV / TZEV Warranty Coverage is in effect for 7 years or 70,000 miles from the vehicle's in-service date, whichever occurs first. (Please reference Policy 4.7 and/or the Owner's Warranty & Maintenance Guide for additional information).
- For 2024 Model Year Prius Prime vehicles equipped with a California Certified Emission Control System that are registered and operated in Delaware or Virginia – PZEV / TZEV Warranty Coverage is in effect for 7 years or 70,000 miles from the vehicle's in-service date, whichever occurs first. (Please reference Policy 4.7 and/or the Owner's Warranty & Maintenance Guide for additional information).

Parts Information

PART NUMBER	PART NAME	QTY
89260-47170	Plug-In Charge Control ECU	-
89260-47172		
89260-47180		
89260-47182		

NOTE

The plug-in charge control ECU should NOT be replaced as part of the Repair Procedure.

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Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
DCA-8000 Battery Diagnostic Tool*	DCA-8000P T	1

*Essential SST.

NOTE

Additional SSTs may be ordered by calling 1-800-933-8335 or by visiting *Home – Service Resources – Toyota Special Service Tools (SSTs)*.

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVi*	ADE	TSADVUNIT	1
Techstream 2.0		TS2UNIT	
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ software version 2024.01.002.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787 or by visiting *TIS – Diagnostics – Tools & Equipment – Techstream Order Portal*.
- Use Techstream or an approved J2534 interface to perform flash reprogramming updates. Visit techinfo.toyota.com for more information regarding J2534 reprogramming.

Calibration Information

MODEL	ENGINE	CALIBRATION ID	
		PREVIOUS	NEW
Prius Prime Without Solar Moon Roof	M20A-FXS	892634711200	892634711300
		8926347110C0	
Prius Prime With Solar Moon Roof		892634712200	892634712300
		8926347120C0	

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Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit a condition where the 12V auxiliary battery charge may deplete due to the plug-in charge control ECU not entering sleep mode when the PHEV charging cable has an extended connection without charging?

- **YES** — Continue to step 2.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

2. Use GTS+ to confirm if the plug-in charge control ECU calibration has been updated.

Is the calibration ID listed in GTS+ the latest ECU calibration?

- **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- **NO** — Continue to step 3.

3. Flash reprogram the plug-in charge control ECU.

NOTE

- The battery diagnostic tool **MUST** be used in Power Supply Mode to maintain battery voltage at 13.5V while flash reprogramming the vehicle.
- For details on how to use the battery diagnostic tool, refer to the [DCA-8000 Instruction Manual](#) located at *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in [T-SB-0107-20](#), *GTS+ ECU Flash Reprogramming Procedure With Security Signature*, and flash reprogram the ECU with the NEW calibration file update.

4. Confirm the condition is no longer present.

Ensure the plug-in charge control ECU enters sleep mode by using the parasitic draw test procedures referenced in [T-QTG-611B-D](#), *Quick Training Guide: Starting, Charging and Parasitic Draw Tests*.