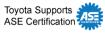


12V Auxiliary Battery Charge May Deplete When PHEV Charging Cable has an Extended Connection Without Charging

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	OFP	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 OFP. Choose the correct OFP 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		
89260-47172	Plug In Charge Control ECLI	
89260-47180	Plug-In Charge Control ECU	_
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*		TSADVUNIT		
Techstream 2.0	ADE	TS2UNIT	1	
Techstream Lite	ADE	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 <u>techinfo.toyota.com</u> for more information regarding J2534 reprogramming.

Calibration Information

MODEL	ENGINE	CALIBRATION ID		
MODEL	ENGINE	PREVIOUS	NEW	
Prius Prime Without Solar	- M20A-FXS	892634711200	000004744000	
Moon Roof		8926347110C0	<u>892634711300</u>	
Drive Drive a Mittle Colon Mann Doct		892634712200	002624742200	
Prius Prime With Solar Moon Roof		8926347120C0	<u>892634712300</u>	

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

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 <u>DCA-8000 Instruction Manual</u> located at *TIS Diagnostics Tools & Equipment Battery Diagnostics*.

Follow the procedures outlined in <u>T-SB-0107-20</u>, *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 <u>T-QTG-611B-D</u>, *Quick Training Guide: Starting, Charging and Parasitic Draw Tests*.