

MIL ON P210015, P210019, or P211172

Service Category Engine/Hybrid System

Section Engine Control

Market USA



Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2020 - 2024	Corolla HV	
2017 - 2022	Prius Prime	
2016 - 2022	Prius	

Introduction

Some 2020 – 2024 Corolla HV, 2017 – 2022 Prius Prime, and 2016 – 2022 Prius vehicles equipped with a 2ZR-FXE engine may exhibit a MIL ON condition with Diagnostic Trouble Code (DTC) P210015 (Throttle Actuator "A" Control Motor Circuit Short to Battery or Open), or P210019 (Throttle Actuator "A" Control Motor Circuit Current Above Threshold), or P211172 (Throttle Actuator "A" Control System Actuator Stuck Open) present. The Engine Control Module (ECM) (SAE term: Powertrain Control Module/PCM) logic has been modified to reduce the possibility of this condition. Follow the Repair Procedure in this bulletin to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EL2326	Reprogram ECM (PCM)	0.7	89661-#####*	8A	83

*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 Federal Emission Warranty. This warranty is in effect for 96 months or 80,000 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 2016-2017 Model Year Prius and 2017-2022 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) 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 Bulletin POL14-09, Warranty Policy 4.7, and/or the Owner's Warranty & Maintenance Guide for additional information).

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Parts Information

VEHICLE	PART NUMBER		PART NAME	QTY
	PREVIOUS	NEW		
Prius	89661-47640 89661-47641 89661-47642 89661-47643	89661-47644	Computer, Engine Control (ECM/PCM)	-
	89661-47650 89661-47651 89661-47652 89661-47653	89661-47654		
	89661-47A00	89661-47A01		
	89661-47A10	89661-47A11		
	89661-47C30	89661-47C31		
	89661-47C40	89661-47C41		
	89661-47C70	89661-47C71		
	89661-47C80	89661-47C81		
	Prius Prime	89661-47750 89661-47751		
89661-47B40		89661-47B41		
89661-47B80		89661-47B81		
89661-47D20 89661-47D21		89661-47D22		
Corolla HV	89661-12X00	89661-12X01	Computer, Engine Control (ECM/PCM)	-
	89661-1AC50	89661-1AC51		
	89661-1AB10	89661-1AB11		
	89661-1AF40			

NOTE

The ECM (PCM) should NOT be replaced as part of the Repair Procedure.

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Required Tools & Equipment

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

*Essential SST.

NOTE
Additional SSTs may be ordered by calling 1-800-933-8335.

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.
- Software version 2024.01.002.02 or later is required.
- Additional Techstream units may be ordered by visiting the [Approved Dealer Equipment](#) (ADE) website at *Home – Service Resources – Approved Dealer Equipment Website* or by calling 1-800-368-6787.
- Use Techstream or an approved J2534 interface to perform flash reprogramming updates. Visit techinfo.toyota.com for more information regarding J2534 reprogramming.

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Calibration Information

MODEL	MODEL YEAR	BATTERY TYPE	CALIBRATION ID	
			PREVIOUS	NEW
Prius	2016 – 2018	Nickel Battery	896634759000 896634759100 896634759200 896634759300	896634759400
		Lithium Battery	896634760000 896634760100 896634760200 896634760300	896634760400
	2019	Nickel Battery	896634785000	896634785100
		Lithium Battery	896634786000	896634786100
	2020	Nickel Battery	8966347B6000	8966347B6100
		Lithium Battery	8966347B7000	8966347B7100
	2021 – 2022	Nickel Battery	8966347C0000	8966347C0100
		Lithium Battery	8966347C1000	8966347C1100
Prius Prime	2017 – 2018	Lithium Battery	896634768000 896634768100	896634768200
	2019		896634789000	896634789100
	2020		8966347A3000	8966347A3100
	2021 – 2022		8966347C5000 8966347C5100	8966347C5200
Corolla HV	2020	Nickel Battery	8966312N1000	8966312N1100
	2021 – 2022	Lithium Battery	8966312L7000	8966312L7100
		Nickel Battery	8966312T3000	8966312T3100
2023 – 2024	All	8A2221203200 8A2221203300 8A2221203400	8A2221203500	

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Repair Procedure

1. Confirm the condition exists.

Does this vehicle exhibit a MIL ON condition with DTC P210015 (Throttle Actuator "A" Control Motor Circuit Short to Battery or Open), or P210019 (Throttle Actuator "A" Control Motor Circuit Current Above Threshold), or P211172 (Throttle Actuator "A" Control System Actuator Stuck Open) present?

- **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 ECM (PCM) calibration has been updated.

Is the calibration ID listed in GTS+ the latest ECM (PCM) calibration?

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

3. Flash reprogram the ECM (PCM).

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 station, refer to the [DCA-8000 Instruction Manual](#) located at *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in Service Bulletin [T-SB-0057-23](#) *GTS+ ECU Flash Reprogramming Procedure*, and [T-SB-0107-20](#) *GTS+ ECU Flash Reprogramming With Security Signature* and flash the ECM (PCM) with the NEW calibration file update.

4. Using GTS+, clear ANY DTCs and test-drive the vehicle to confirm that the vehicle is operating properly.