

MIL On With DTC(s) P060649 and/or P060647

Service Category Vehicle Interior

Section Meter/Gauge/Display

Market USA

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2023	Sequoia HV	
2022 - 2023	Tundra HV	

Introduction

Some 2022 – 2023 model year Tundra Hybrid and 2023 model year Sequoia Hybrid vehicles may exhibit a MIL ON condition with one or both of the following Diagnostic Trouble Codes (DTCs) present:

- P060649 – Control Module Processor Unexpected Operation
- P060647 – Control Module Processor Watchdog/Safety MCU Failure

The Engine Control Module (ECM) (SAE term: Powertrain Control Module/PCM) logic has been modified to address this condition. Follow the Repair Procedure in this bulletin to address this condition.

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Production Change Information

This bulletin applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

MODEL	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
Tundra HV	2WD	5TFJC5AB#PX002443
		5TFMC5AB#PX002443
		5TFNC5AB#PX002443
		5TFJC5BC#PX002443
		5TFMC5BC#PX002443
		5TFNC5BC#PX002443
	4WD	5TFJC5DB#PX026913
		5TFPC5DB#PX026913
		5TFVC5DB#PX026913
		5TFMC5DB#PX026913
		5TFNC5DB#PX026913
		5TFJC5EC#PX026913
		5TFNC5EC#PX026913
		5TFMC5EC#PX026913
Sequoia HV	2WD	7SVAAAAA#PX001901
	4WD	7SVAAABA#PX011517

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
800269	Reprogram the ECM (PCM)	0.7	89661-0C###*	8A	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 Federal Emissions 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.

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Parts Information

MODEL	DRIVETRAIN	PART NUMBER	PART NAME	QTY
Tundra HV	2WD	896610CU71 896610CU70	Computer, Engine Control (ECM/PCM)	–
	4WD	896610CU81 896610CU80		
Sequoia HV	2WD	896610CV00		
	4WD	896610CV10		
ALL		00451-00001-LBL	Authorized Modification Labels	1

NOTE

- The ECM (PCM) should NOT be replaced as part of the Repair Procedure.
- Authorized Modifications Labels may be ordered in packages of 25 from the Materials Distribution Center (MDC) (portal.toyotamdc.com) under item No. 00451-00001-LBL.

Required Tools & Equipment

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 2022.04.004.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 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.

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.

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Calibration Information

MODEL	ENGINE	DRIVETRAIN	GRADE	CALIBRATION ID	
				PREVIOUS	NEW
Tundra HV	V35A-FTS	2WD	All Except TRD Pro	896630CS1101 896630CS1001	896630CS1201
		4WD	TRD Pro	896630CS2100 896630CS2000	896630CS2200
			Other	896630CS2101 896630CS2001	896630CS2201
Sequoia HV	V35A-FTS	2WD	All Except TRD Pro	896630CS4001	896630CS4101
		4WD	TRD Pro	896630CS5000	896630CS5100
			Other	896630CS5001	896630CS5101

Repair Procedure

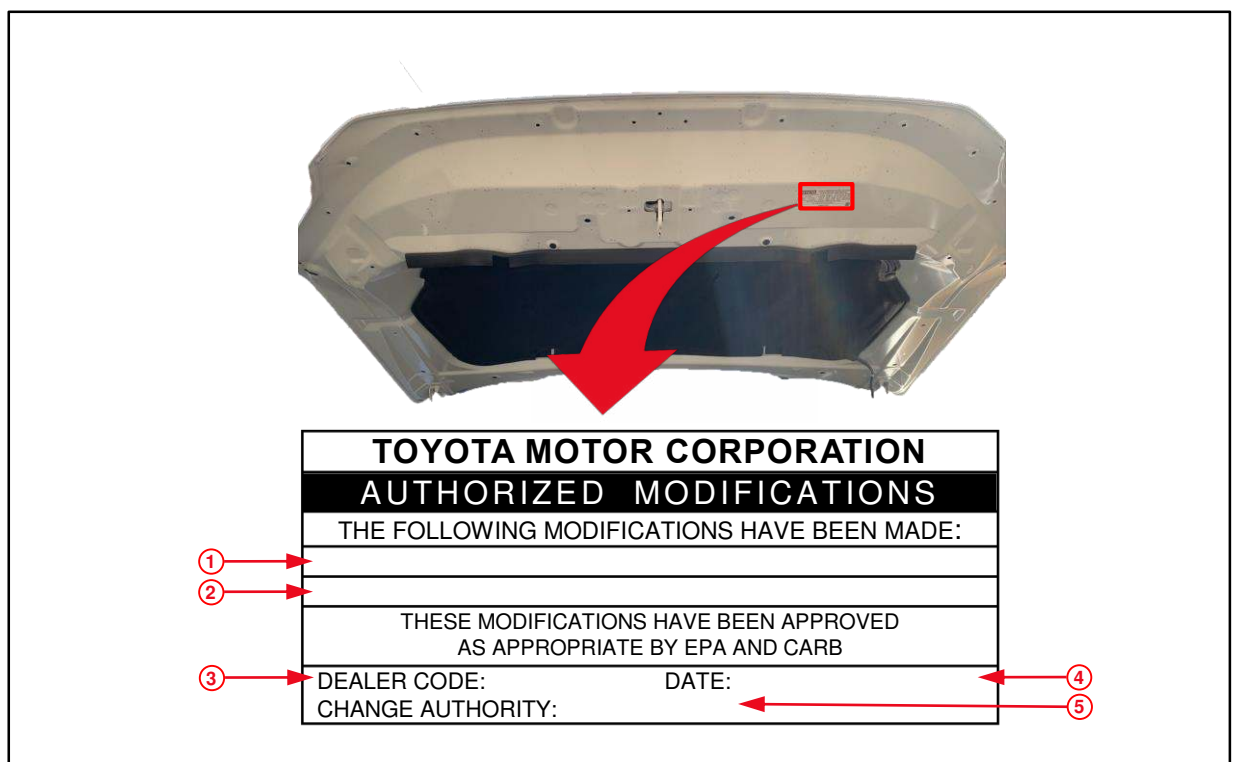
- Using Techstream, check for stored DTCs.
Are one or both of the following DTCs present?
 - P060649 – Control Module Processor Unexpected Operation
 - P060647 – Control Module Processor Watchdog/Safety MCU Failure
 - YES** — Continue to step 2.
 - NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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Repair Procedure (continued)

2. Use Techstream to confirm if the ECM (PCM) calibration has been updated and check for the Authorized Modifications Label affixed to the vehicle in the location shown below.
Is the calibration ID listed in Techstream and on the label the latest ECM (PCM) calibration?
 - **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
 - **NO** — Continue to step 3.

Figure 1. Location of Authorized Modifications Label on 2022 – 2023 Tundra HV and 2023 Sequoia HV



1	Replacement Skid Control Computer Part Number e.g., 896610CU71
2	New Calibration ID e.g., 896630CS1200
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (continued)

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 [T-SB-0107-20 ECU Flash Reprogramming With Security Signature](#), and flash the ECM (PCM) with the NEW calibration file update.

4. Prepare and install the Authorized Modifications Label.
 - A. Using a permanent marker, enter the following information on the label:
 - ECM (PCM) part number [*Refer to the **Parts Information** section for the **NEW PART NUMBER***]
 - Calibration ID(s) [*Refer to the **Calibration Information** section for the **NEW CALIBRATION ID***]
 - Dealer Code
 - Repair Date
 - Change Authority [***This bulletin number***]
 - B. Install the Authorized Modifications Label onto the vehicle at the location shown in Figure 1. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.
5. Test-drive the vehicle to confirm proper operation.