

MIL ON With DTC P060649

Service Category Engine/Hybrid System

Section Engine Control

Market USA and
Mexico

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2023	RX500H	

Introduction

Some 2023 model year RX 500h vehicles may exhibit a MIL ON condition with Diagnostic Trouble Code (DTC) P060649 (Control Module Processor Unexpected Operation) 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.

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Warranty Information

For USA Market

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EL2418	Reprogram the ECM (PCM)	0.7	89661-0E###*	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 Lexus 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 Mexico Market

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EL2418	Reprogram the ECM (PCM)	0.7	89661-0E###*	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 Lexus Basic Warranty. This warranty is in effect for 48 months or 80,000 kilometers, whichever occurs first, from the vehicle's in-service date.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.

Parts Information

PART NUMBER	PART NAME	QTY
89661-0E###	Computer, Engine Control	1

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 (USA) or 01-800-504-5330 (Mexico) or by visiting *Home – Service Resources – Lexus 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 (USA) or 01-55-50103041 (Mexico) 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
RX 500h	T24A-FTS	8A2220E08000	8A2220E08500
		8A2220E08100	
		8A2220E08200	
		8A2220E08300	
		8A2220E08400	

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Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit a MIL ON condition with DTC P060649 (Control Module Processor Unexpected Operation) 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 [L-SB-0036-22](#), *GTS+ ECU Flash Reprogramming With Security Signature*, and flash reprogram the ECM (PCM) with the NEW calibration file update.

4. Using GTS+, clear ANY DTCs and confirm the condition no longer exists.

NOTE

After DTCs are cleared, be sure to IG OFF and let vehicle rest for no less than 30 seconds before READY ON.