

Delayed and/or Reduced Heat From the HVAC System, After Hot Restart, Prior to the Internal Combustion Engine Starting

Service Category

Vehicle Interior

Section

Heating/Air Conditioning

Market

USA and Mexico

Toyota Supports ASE Certification



Applicability

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

REVISION NOTICE

April 15, 2024 Rev1:

- The Required Tools & Equipment section has been updated.
- Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2023 model year RX 500h vehicles may exhibit a delay and/or reduction in output of warm air from the HVAC system while the vehicle engine is at normal operating temperatures (over 170°F or 77°C). This condition usually occurs immediately after a hot restart, while the vehicle is in Ready ON, but before the internal combustion engine starts. 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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Table of Contents

• Warranty Information	3
• For USA Market	3
• For Mexico Market	3
• Parts Information	3
• Required Tools & Equipment	4
• Calibration Information	4
• Repair Procedure	5

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Warranty Information

For USA Market

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EL2318	Reprogram the ECM (PCM)	0.7	89661-#####*	7A	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 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
EL2318	Reprogram the ECM (PCM)	0.7	89661-#####*	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

For USA and Mexico Markets

PART NUMBER	PART NAME	QTY
89661-0EK30	Computer, Engine Control	—

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 delay and/or reduction in output of warm air from the HVAC system while the vehicle engine is at normal operating temperatures (over 170°F or 77°C)? This condition may occur immediately after a hot restart, while the vehicle is in Ready ON, but before the internal combustion engine starts.

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

Follow the procedures outlined in [L-SB-0036-22](#), *GTS+ ECU Flash Reprogramming Procedure With Security Signature*, and flash reprogram the ECM (PCM) with the NEW calibration file update.

4. Confirm the condition no longer exists.