

Hesitation/Non-linear Acceleration From a Stop

Service Category Engine/Hybrid System

Section Engine Control

Market USA

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2023	RX350	

Introduction

Some 2023 model year RX 350 vehicles may exhibit one or both of the following conditions:

- Hesitation when accelerating from a stop.
- Non-linear acceleration from a stop or rolling stop with steady throttle.

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

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EL2317	Reprogram the ECM (PCM)	0.7	89661-#####*	04	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.**

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Parts Information

PART NUMBER	PART NAME	QTY
89661-4D560	Computer, Engine Control (ECM/PCM)	-
89661-0EK00		

NOTE

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

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.
- GTS+ software version 2023.03.002.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

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Calibration Information

DRIVETRAIN	COUNTRY OF ORIGIN	CALIBRATION ID	
		PREVIOUS	NEW
FF	North America	8A2220E10000	8A2220E10300
		8A2220E10100	
		8A2220E10200	
	Japan	8A2224825000	8A2224825300
		8A2224825100	
		8A2224825200	
AWD	All	8A2220E11000	8A2220E11300
		8A2220E11100	
		8A2220E11200	

Repair Procedure

1. Confirm the condition(s) exist(s).
Does the vehicle exhibit a hesitation when accelerating from a stop and/or a non-linear acceleration from a stop or rolling stop with steady throttle?

 - **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.

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

4. Clear ANY DTCs and test-drive the vehicle to confirm the condition has improved.

NOTE

The condition may immediately improve, BUT full effectiveness of the countermeasure software may NOT be felt until the vehicle learned values are reset via regular driving of the vehicle.