

Engine Noise When Coasting Down Hill at High SOC

Service Category Engine/Hybrid System

Section Engine Control

Market USA and
Mexico

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2023 - 2025	RX350H	VDS(s): BBMCA Engine(s): A25 Drive Type(s): AWD Body Type(s): Wa, 5Dr. SUV, Wagon Transmission(s): CVT-F, eCVT

Introduction

Some 2023 — 2025 model year RX 350h customers may experience a high engine RPM/noise when coasting or braking when going downhill with high vehicle SOC (State of Charge). This condition may occur when the vehicle is utilizing engine braking to prevent overcharge of the hybrid battery (>80%). 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
EL2602	Reprogram the Hybrid Control Module	1.1	89980-0E####*	91	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 Hybrid Warranty. This warranty is in effect for 96 months or 100,000 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
EL2602	Reprogram the Hybrid Control Module	1.1	89980-0E####*	91	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.

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Parts Information

MODEL YEAR	PART NUMBER	PART NAME	QTY
2023	89980-0E300	Computer Assy, Hybrid Vehicle Control	-
2024	89980-0E500		
2025	89980-0E570		

NOTE

The Hybrid Vehicle Control Computer Assembly should NOT be replaced as part of the Repair Procedure.

Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
DCA-8000 Battery Diagnostic Tool*	DCA-8000P-T	1
MSP-070 Power Supply / Charger	MTRMSP0702	1

*Essential SST.

NOTE

- Only ONE of the 12V battery power supply units listed above is required to support reprogramming. Additional SSTs may be ordered by calling 1-800-368-6787 or +(525) 5550 10 3000 (Mexico) by visiting: *Home – Service Resources – Lexus Tools and Equipment Program*.

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVi*	ADE	TSADVUNITECP	1
Techstream Lite		TSLP3DLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 2026.01.003.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787 (USA) or +(525) 5550 10 3000 (Mexico) or by visiting *TIS – Diagnostics – Tools & Equipment – Techstream Order Portal*.

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Calibration Information

MODEL	MODEL YEAR	CALIBRATION		FILE NAME – SIZE
		PREVIOUS	NEW	
RX 350h	2023	8A2520E08100(MAIN) 899854806000(SUB)	8A2520E08200 (MAIN) 899854806100 (SUB)	L-0022-26.cuw – 9 MB
	2024	8A2520E10000(MAIN) 899854815000(SUB)	8A2520E10100 (MAIN) 899854815100 (SUB)	L-0023-26.cuw – 9 MB
	2025	8A2520E16000(MAIN) 899854824000(SUB)	8A2520E16100 (MAIN) 899854824100 (SUB)	L-0024-26.cuw – 9 MB

Repair Procedure

- Confirm the condition exist.
Does the vehicle exhibit an increase in engine RPM and noise when coasting with high state of charge (>80%)?
 - YES** — Continue to step 2.
 - NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- Use GTS+ to confirm if the Hybrid Control Computer calibration has been updated. Is the calibration ID listed in GTS+ the latest 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 Hybrid Control Computer.

NOTE

- The DCA-8000 Battery Diagnostic Tool MUST be used in ECU Reflash Mode to maintain battery voltage at 13.5V while flash reprogramming the vehicle.
- The MSP-070 Power Supply / Charger can be used on either the 13.6V or 14.4V setting to maintain battery voltage while flash reprogramming the vehicle.
- For details on how to use the 12V battery power supply units, refer to the instruction manuals located at *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in Service Bulletin [T-SB-0021-25](#), *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 test-drive the vehicle to confirm the condition has been addressed.

NOTE

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