

Shudder Sensation When Vehicle at Complete Stop

Service Category Drivetrain

Section Hybrid Transmission/Transaxle

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2023 - 2025	Crown	
2024 - 2025	Grand Highlander HV	

Introduction

Some 2023 – 2025 Crown and 2024 – 2025 Grand Highlander Hybrid vehicles equipped with a Hybrid Transmission Assembly HPC60 may exhibit a shudder sensation when the vehicle is at a complete stop, the State of Charge (SOC) of the HV Battery is greater than 76%, and the transmission is in the Drive position with the brakes applied. Follow the Repair Procedure in this bulletin to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EL2504	Reprogram the Hybrid Vehicle Control Computer	1.1	89980-#####*	9B	74

*Warranty claim MUST be submitted with the correct 10-digit OFF. Choose the correct OFF 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 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.

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Parts Information

PART NUMBER	PART NAME	QTY
89980-30200	Computer Assy, Hybrid Vehicle Control	-
89980-30430		
89980-0E250		

NOTE
The hybrid vehicle control computer assembly should NOT be replaced as part of the Repair Procedure.

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 2024.04.004.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787 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	MODEL YEAR	ENGINE	CALIBRATION ID	
			PREVIOUS	NEW
Crown	2023 – 2024	T24A-FTS	8A2523002200	8A2523002400
			8A2523002300	
	2025		8A2523030000	8A2523030100
Grand Highlander HV	2024		8A2520E01100	8A2520E01200
	2025		8A2520E11000	8A2520E11100

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Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit a shudder sensation when the vehicle is at a complete stop, the SOC of the HV Battery is greater than 76%, and the transmission is in the Drive position with the brakes applied?

- **YES** — Continue to step 2.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

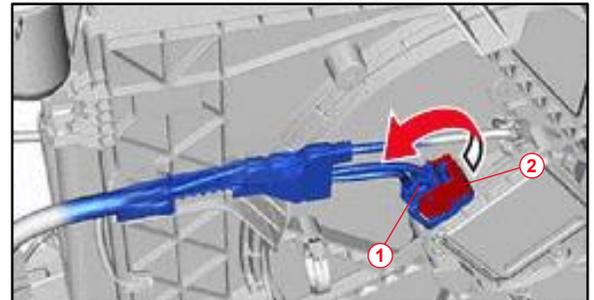
2. Disconnect the cooling fans.

- A. Disconnect the cooling fan motor connector.
- B. Rotate the lever while pushing the lock and disconnect the cooling fan motor connector.

NOTICE

After disconnecting the cooling fan motor connector, make sure that dirt, water, or other foreign matter does NOT contact the connecting parts of the cooling fan motor connector.

Figure 1.



1	Cooling Fan Motor Connector
2	Lock

3. Flash reprogram the hybrid vehicle control computer.

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-0021-25](#), *GTS+ ECU Flash Reprogramming With Security Signature*, and flash reprogram the hybrid vehicle control computer with the NEW calibration file update.

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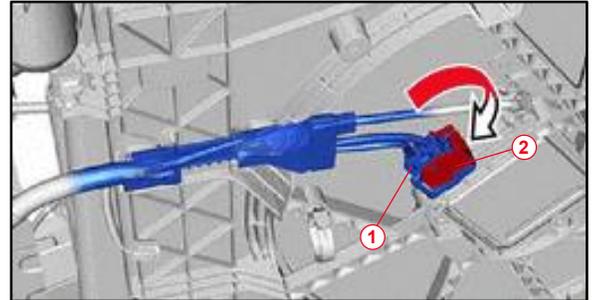
Repair Procedure (continued)

4. Connect the cooling fans.
 - A. Connect the cooling fan motor connector.
 - B. Rotate the lever to lock it.

NOTICE

- When connecting the cooling fan motor connector, make sure that the connecting parts of the cooling fan motor connector are free of dirt, water, or other foreign matter.
- Be sure to securely connect the cooling fan motor connector.

Figure 2.



1	Cooling Fan Motor Connector
2	Lock

5. Using GTS+, clear ANY DTCs and test-drive the vehicle to confirm normal operation and the condition is no longer present.