

Rear Seat Reminder Malfunction Message and/or DTC U117487

Service Category Vehicle Interior

Section Seat

Market USA

Toyota Supports ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2025	Sienna HV	

REVISION NOTICE

- July 24, 2025 Rev1:
- The Required Tools & Equipment and Repair Procedure sections have been updated.
- Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2025 model year Sienna Hybrid vehicles equipped with the advanced rear seat reminder system may exhibit one or both of the following conditions:

- A “Rear Seat Reminder Malfunction – Visit Your Dealer” message on the Multi-information Display (MID).
- Diagnostic Trouble Code (DTC) U117487 (Lost Communication with Cabin Occupant Recognition Sensor Missing) present in the main body ECU.

The cabin object recognition sensor assembly logic has been modified to address these conditions. Follow the Repair Procedure in this bulletin to address the conditions.

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Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EL2507	Reprogram Cabin Object Recognition Sensor Assy	0.9	891E1-080###*	87	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 Toyota Basic Warranty. This warranty is in effect for 36 months or 36,000 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.

Parts Information

PART NUMBER			PART NAME	QTY
PREVIOUS	NEW	SEATING CAPACITY		
891E0-08010	891E1-08030	7	Sensor Assy, Cabin Object Recognition	–
	891E1-08040	8		

NOTE

The cabin object recognition sensor assembly should NOT be replaced as part of the Repair Procedure.

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Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
DCA-8000 Battery Diagnostic Tool*	DCA-8000P T	1

*Essential SST.

NOTE

Additional SSTs may be ordered by calling 1-800-368-6787 or by visiting *Home – Service Resources – Toyota Tools and Equipment Program*.

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVi*	ADE	TSADVUNIT	1
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ software version 2025.02.006.02 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	CALIBRATION ID	
	PREVIOUS	NEW
Sienna HV	891EF08010B0	891EF0801100

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Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit one or both of the following conditions?

- A “Rear Seat Reminder Malfunction – Visit Your Dealer” message on the MID.
- DTC U117487 (Lost Communication with Cabin Occupant Recognition Sensor Missing) present in the main body ECU.
- **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 cabin object recognition sensor assembly calibration has been updated.

Is the calibration ID listed in GTS+ the latest cabin object recognition sensor assembly calibration?

- **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- **NO** — Continue to step 3.

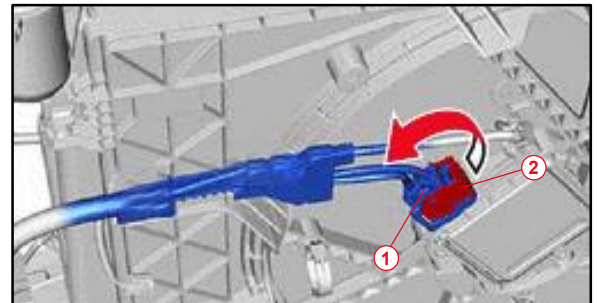
3. Disconnect the cooling fans.

- A. Disconnect the cooling fan motor connector.
- B. Rotate the lever while pushing the lock and disconnect the cooling fan motor connector, as shown in Figure 1.

NOTICE

After disconnecting the cooling fan motor connector, make sure that any 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

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Repair Procedure (continued)

4. Flash reprogram the cabin object recognition sensor assembly.

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*.

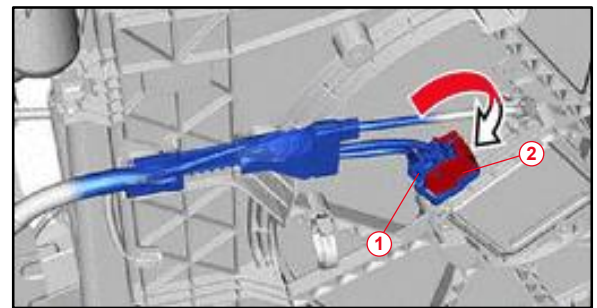
Follow the procedures outlined in [T-SB-0021-25](#), *GTS+ ECU Flash Reprogramming With Security Signature*, and flash reprogram the cabin object recognition sensor assembly with the NEW calibration file update.

5. Reconnect the cooling fans.
 - A. Connect the cooling fan motor connector.
 - B. Rotate the lever to lock it, as shown in Figure 2.

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

6. Using GTS+, clear ANY DTCs and test-drive the vehicle to confirm normal operation and that the conditions are no longer present.