

Blind Spot Monitor Inoperative With DTC C1AB413 and/or C1AB513

Service Category Audio/Visual/Telematics

Section Park Assist/Monitoring

Market USA

Toyota Supports
ASE Certification 

Applicability

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

Introduction

Some 2024 – 2025 model year Grand Highlander and Grand Highlander Hybrid vehicles may exhibit a condition where the Blind Spot Monitor (BSM) system is inoperative, there is a BSM malfunction message on the multi-information display (MID), or the driving assist information indicator is illuminated, along with one or more of the following Diagnostic Trouble Codes (DTCs) present:

- C1AB413 – Outer Mirror Indicator (Module "B" Side) Circuit Open
- C1AB513 – Outer Mirror Indicator (Module "A" Side) Circuit Open

The BSM sensor software has been updated to reduce the possibility of these conditions. Follow the Repair Procedure in this bulletin to address these conditions.

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Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EL2508	Reprogram Both Blind Spot Monitor Sensors	1.1	88162-#####*	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	Sensor, Blind Spot Monitor	—
88162-0E131	88162-0E201		
88162-0E200			
88162-0E210			
88162-0E133	88162-0E134		

NOTE

The BSM sensors 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 Special Service Tools (SSTs)*.

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 2025.01.005.02 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.

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Calibration Information

MODEL	CALIBRATION ID		
	PREVIOUS	NEW	
		BSM SENSOR A	BSM SENSOR B
Grand Highlander Grand Highlander HV	8816F0E03000 8816F4002000 8816F4707000 8816F4817400 8816F4817300 8816F4817600 8816F5804000 8816F5805000	BSM "A" – 8816F5805100	BSM "B" – 8816F5805100
	8816F3004100 8816F5005000 8816F6005000	BSM "A" – 8816F5005100	BSM "B" – 8816F5005100

NOTE

- Both BSM Sensors need to be updated.
- BSM "A" and BSM "B" files are unique even though the CAL IDs appear the same.

Repair Procedure

1. Confirm the condition.

Does the vehicle exhibit a condition where the BSM system is inoperative, there is a BSM malfunction message on the MID, or the driving assist information indicator is illuminated, along with one or more of the following DTCs present?

- C1AB413 – Outer Mirror Indicator (Module "B" Side) Circuit Open
- C1AB513 – Outer Mirror Indicator (Module "A" Side) Circuit Open
- **YES** — Continue to step 2.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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Repair Procedure (continued)

2. Use GTS+ to confirm the BSM sensor calibrations.

Are the calibration IDs for the BSM sensors the latest listed in the Calibration Information section?

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

3. Flash reprogram BOTH BSM sensors.

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 both BSM sensors with the NEW calibration file update.

4. Using GTS+, clear ANY DTCs and test drive the vehicle to confirm the conditions are no longer present.