

June 20, 2024

## NONCOMPLIANCE INFORMATION REPORT

1. Vehicle Manufacturer Name:

Toyota Motor Manufacturing, Indiana, Inc. ["TMMI"]  
4000 Tulip Tree Dr., Princeton, IN 47670

Affiliated U.S. Sales Company:

Toyota Motor North America, Inc. ["TMNA"]  
6565 Headquarters Drive, Plano, TX 75024

Manufacturer of Curtain Shield Airbag Assembly:

Autoliv North America, Inc. (Ogden Technical Center)  
3350 Airport Rd, Ogden, UT 84405  
Phone: (801) 629-9800

Country of Origin: USA

2. Identification of Involved Vehicles and Affected Components:

Based on production records, we have determined the involved vehicle population to be the vehicles in the table below.

Make/Car Line	Model Year	Manufacturer	Production Period
Toyota / Grand Highlander	2024	TMMI	June 13, 2023 through June 10, 2024
Toyota / Grand Highlander Hybrid			June 13, 2023 through June 10, 2024

Lexus / TX350			September 20, 2023 through June 10, 2024
Lexus / TX500 Hybrid			September 20, 2023 through June 10, 2024
Lexus / TX550 Hybrid +			January 5, 2024 through June 10, 2024

Applicability	Part Number	Part Name	Component Description
MY2024 Toyota Grand Highlander and Grand Highlander Hybrid, Lexus TX350, TX500 Hybrid, and TX550 Hybrid +	62180-0E170	Air Bag Assy, Curtain Shield, LH	LH Curtain Shield Airbag

- Note: (1) Although the involved vehicles are within the above production period range, not all vehicles in this range were sold in the U.S.
- (2) This recall involves MY2024 Grand Highlander and Lexus TX vehicles. Other Toyota and Lexus vehicles are not equipped with the same curtain shield airbag and do not have the same structure and components surrounding the airbag during deployment. However, due to certain similarities to the Grand Highlander and TX, Toyota is confirming that the Toyota Highlander, a separate model also containing a driver's side curtain shield airbag of a different design and with different surrounding structures, is not affected by the condition described in this report.

3. Total Number of Vehicles Potentially Involved:

Grand Highlander : 76,686  
Grand Highlander Hybrid : 34,980  
TX350 : 27,706  
TX500 Hybrid : 5,436  
TX550 Hybrid + : 446  
Total : 145,254

4. Percentage of Vehicles Estimated to Actually Contain the Noncompliance:

Toyota is unable to estimate the percentage of the involved vehicles to actually contain the noncompliance described in Section 5 due to the ongoing root cause investigation. However, as the NHTSA manufacturer portal requires an integer value be entered, Toyota has entered the value “1” in response to this question in the portal. For the purpose of this report, “1” means “unknown”.

5. Description of Noncompliance:

The subject vehicles are equipped with curtain shield airbags that are designed to deploy from the side roof rails during certain crashes. During deployment of the curtain shield airbag on the driver’s side of the vehicle, the front portion of the airbag may not unroll as intended, and a portion of the airbag may move outside of the driver’s window opening if the window is rolled down. If the driver’s curtain shield airbag deploys with a portion of the airbag outside of the window opening, the vehicle may not meet certain ejection headform displacement requirements of FMVSS No. 226 paragraph S4.2.1. This could result in an increased risk of injury during certain crashes.

6. Test Results and Other Information:

On May 9, 2024, NHTSA’s Office of Vehicle Safety Compliance’s (OVSC) contract lab conducted an FMVSS No. 226 compliance test on the driver’s side curtain shield airbag in which the front lower primary (A1) target displacement result exceeded the regulation limit of 100 mm. Initial observations indicated that the front corner of the airbag inflated outside of the driver’s window opening, which did not match the design intent for deployment and Toyota’s internal testing.

Beginning May 17, when Toyota was given permission to disassemble portions of the test vehicle to evaluate, a variety of tests were planned and subsequently performed. The purpose of these tests was to evaluate different factors based on observations from the test vehicle disassembly and other factors identified that may have differed from prior internal testing. The factors were evaluated to assess their impact on the propensity of the front corner of the airbag to inflate outside the driver window opening and potentially lead to an A1 target displacement result greater than 100 mm. Factors such as differences attributable to test vehicle setup, production changes, and part tolerance variations were considered.

Continued testing in early June indicated that the structure surrounding the driver’s side curtain shield airbag may be such that it allows for unintended upward motion, which can cause slower downward deployment velocity and resulting inflation outside of the driver’s window. This is

an additional factor that Toyota identified for evaluation.

While some factors have been subsequently determined to have little effect on the performance in question, Toyota has not confirmed which factors explain the observation from recent testing where the forward portion of the airbag did not unroll in a manner expected by its design and could inflate outside the driver window opening under these test conditions.

Although the root cause and potential remedy has not been determined, on June 14, 2024, Toyota determined that the driver's side curtain shield airbag in the subject vehicles may not meet certain ejection headform displacement requirements of FMVSS No. 226 paragraph S4.2.1 and decided to conduct a recall.

7. Description of Corrective Repair Action:

The corrective repair action has not yet been determined.

Reimbursement Plan for pre-notification remedies

As the owner notification letters will be mailed out well within the active period of the Toyota or Lexus New Vehicle Limited Warranty ("Warranty"), all involved vehicle owners for this recall would have been provided a repair at no cost under Toyota's Warranty.

8. Recall Schedule:

Notifications to owners of the affected vehicles will occur by August 19, 2024. A copy of the draft owner notification will be submitted as soon as it is available.

9. Distributor/Dealer Notification Schedule:

Notifications to distributors/dealers will be sent on June 20, 2024. Copies of dealer communications will be submitted as they are issued.

10. Manufacturer's Campaign Number:

Toyota [Interim/Remedy] 24TB09/24TA09

Lexus [Interim/Remedy] 24LB05/24LA05