

Part 573 Safety Recall Report

22V-519

Manufacturer Name : Toyota Motor Engineering & Manufacturing**Submission Date :** JUL 21, 2022**NHTSA Recall No. :** 22V-519**Manufacturer Recall No. :** 22TA08**Manufacturer Information :**

Manufacturer Name : Toyota Motor Engineering & Manufacturing
Address : 6565 Headquarters Drive
 Plano TX 75024
Company phone : 1-800-331-4331

Population :

Number of potentially involved : 3,533
Estimated percentage with defect : 70 %

Vehicle Information :**Vehicle 1 :** 2022-2022 Toyota RAV4 Hybrid**Vehicle Type :****Body Style :****Power Train :** NR

Descriptive Information : (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) Only vehicles equipped with an 8-way power front passenger seat with a seat lifter function in the above production range that were manufactured at certain plant locations are involved in this recall. Certain vehicles manufactured at other plants are equipped with seat frames of the same design; however, no interference has been found with current production parts that were inspected at those locations. Note: Based on inspections of a sample of vehicles in its inventory, Toyota estimates approximately 70% of the involved vehicles equipped with an 8-way power front passenger seat with a seat lifter function described in Section 5, may have interference of seat components near the OCS sensor. Whether the noncompliance is present on each potentially affected vehicle depends on the amount of interference between the seat frame and stopper and the position of the passenger seat at the time the OCS was initially calibrated.

Production Dates : NOV 30, 2021 - MAR 31, 2022**VIN Range 1 : Begin :**

NR

End : NR **Not sequential**

Vehicle 2 : 2022-2022 Toyota RAV4 PRIME

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : (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) Only vehicles equipped with an 8-way power front passenger seat with a seat lifter function in the above production range that were manufactured at certain plant locations are involved in this recall. Certain vehicles manufactured at other plants are equipped with seat frames of the same design; however, no interference has been found with current production parts that were inspected at those locations. Note: Based on inspections of a sample of vehicles in its inventory, Toyota estimates approximately 70% of the involved vehicles equipped with an 8-way power front passenger seat with a seat lifter function described in Section 5, may have interference of seat components near the OCS sensor. Whether the noncompliance is present on each potentially affected vehicle depends on the amount of interference between the seat frame and stopper and the position of the passenger seat at the time the OCS was initially calibrated.

Production Dates : SEP 06, 2021 - MAR 29, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 3 : 2022-2022 Toyota RAV4

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : (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) Only vehicles equipped with an 8-way power front passenger seat with a seat lifter function in the above production range that were manufactured at certain plant locations are involved in this recall. Certain vehicles manufactured at other plants are equipped with seat frames of the same design; however, no interference has been found with current production parts that were inspected at those locations. Note: Based on inspections of a sample of vehicles in its inventory, Toyota estimates approximately 70% of the involved vehicles equipped with an 8-way power front passenger seat with a seat lifter function described in Section 5, may have interference of seat components near the OCS sensor. Whether the noncompliance is present on each potentially affected vehicle depends on the amount of interference between the seat frame and stopper and the position of the passenger seat at the time the OCS was initially calibrated.

Production Dates : SEP 02, 2021 - MAR 31, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Noncompliance :

Description of the Noncompliance : The subject vehicles are equipped with an 8-way power front passenger seat with a seat lifter function that contains an Occupant Classification System (OCS) which provides input to the Supplemental Restraint System to determine the deployment strategy of the front passenger airbag, depending on the occupant load. There is a possibility that a stopper and the seat frame near the OCS sensor were assembled with variations that created interference between these parts, causing the OCS sensor to incorrectly detect the occupant load. As such, the subject vehicles may not meet the requirements of FMVSS No. 208, paragraphs S5.1.1(b)(2), S5.1.2(b), S16.1(a)(2), S16.1(b), S17, and S20.2. If the OCS does not detect the occupant load correctly, the front passenger airbag may not deploy as designed in the event of a crash, increasing the risk of injury to an occupant in the front passenger seat.

FMVSS 1 : 208 - Occupant crash protection

FMVSS 2 : NR

Description of the Safety Risk : There is a possibility that a stopper and the seat frame near the OCS sensor were assembled with variations that created interference between these parts, causing the OCS sensor to incorrectly detect the occupant load. As such, the subject vehicles may not meet the requirements of FMVSS No. 208, paragraphs S5.1.1(b)(2), S5.1.2(b), S16.1(a)(2), S16.1(b), S17, and S20.2. If the OCS does not detect the occupant load correctly, the front passenger airbag may not deploy as designed in the event of a crash, increasing the risk of injury to an occupant in the front passenger seat.

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : ADJUSTER ASSY, FR SEAT, RH

Component Description : Seat Frame Assembly

Component Part Number : 72010-42450

Supplier Identification :**Component Manufacturer**

Name : Toyota Boshoku Corporation

Address : 88 Kanayama

Kamekubi-cho Toyota-city, Aichi Foreign States 470-0395
Country : Japan

Chronology :

In mid-March 2022, during a final inspection process at a vehicle assembly plant in Japan, a Toyota team member found one vehicle with an output value of an OCS that was out of specification. Upon inspecting the seat assembly of this vehicle, it was found that a stopper near the OCS sensor was interfering with the seat frame.

An investigation began which involved inspection of other vehicles at various assembly plants. Interference was found in some vehicles equipped with an 8-way power seat with a seat lifter function. Based on the results of these investigations, Toyota determined that assembly variation created interference of these parts in certain vehicles, causing the OCS sensor to incorrectly detect the occupant load.

Based on this analysis, on July 15, 2022, it was determined that it is possible that an inaccurate reading from an OCS sensor could cause the front passenger airbag to not deploy as designed in the event of a crash. As such, the involved vehicles may not meet some portions of the requirements of FMVSS No. 208, paragraphs S5.1.1 (b) (2), S5.1.2 (b), S16.1 (a) (2), S16.1 (b), S17, and S20.2.

Description of Remedy :

Description of Remedy Program : All known owners of the subject vehicles will be notified by first class mail to return their vehicles to a Toyota dealer. The dealers will inspect to determine whether there is interference between the seat frame and stopper. If interference is found, the stopper will be adjusted, and the occupant classification system will be re-calibrated. As the owner notification letters will be mailed out well within the active period of the Toyota New Vehicle Limited Warranty, all involved vehicle owners for this recall would have been provided a repair at no cost under Toyota's Warranty.

How Remedy Component Differs from Recalled Component : NR

Identify How/When Recall Condition was Corrected in Production : NR

Recall Schedule :

Description of Recall Schedule : Notifications to owners of the affected vehicles will begin by September 19, 2022. A copy of the draft owner notification letter(s) will be submitted as soon as available. Notifications to distributors/dealers will

be sent on July 21, 2022. Copies of dealer communications will be submitted as they are issued.

Planned Dealer Notification Date : JUL 21, 2022 - JUL 21, 2022

Planned Owner Notification Date : SEP 02, 2022 - SEP 19, 2022

* NR - Not Reported