

# Part 573 Safety Recall Report

# 22V-444

**Manufacturer Name :** Toyota Motor Engineering & Manufacturing**Submission Date :** OCT 06, 2022**NHTSA Recall No. :** 22V-444**Manufacturer Recall No. :** See attached report**Manufacturer Information :**

Manufacturer Name : Toyota Motor Engineering &amp; Manufacturing

Address : 6565 Headquarters Drive

Plano TX 75024

Company phone : 1-800-331-4331

**Population :**

Number of potentially involved : 661

Estimated percentage with defect : 100 %

**Vehicle Information :**

Vehicle 1 : 2023-2023 Toyota bZ4X

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. Note: Toyota estimates the percentage of the involved vehicles to contain the defect to be 100%. However, whether the issue in each case will lead to the wheel detachment depends on many variables described in Section 5 below.

**Production Dates :** MAR 30, 2022 - APR 21, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2023-2023 Subaru SOLTERRA

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. Note: Toyota estimates the percentage of the involved vehicles to contain the defect to be 100%. However, whether the issue in each case will lead to the wheel detachment depends on many variables described in Section 5 below.

**Production Dates :** MAR 30, 2022 - JUN 03, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

**Description of Defect :**

Description of the Defect : The subject vehicles are equipped with wheels attached to the vehicle with certain hub bolts. A higher-than-expected coefficient of friction of the bolt surface may result in lower-than-expected clamping force from the fastening of these bolts during assembly. Under certain driving conditions that can expose the bolts to higher operating temperatures, the coefficient of friction of the bolt can change, causing additional torque relaxation. If these conditions occur, the overall wheel slip resistance torque can become lower than the torque that can be produced under certain driving and braking conditions in the subject vehicles. This can result in all of the hub bolts on a wheel to loosen to the point where they can detach. In addition, the subject vehicles were equipped with wheels that contained excessive roughness on a contact surface and bolt holes that were misaligned. These conditions can lead to further reduction of the overall wheel slip resistance torque. If a wheel detaches from the vehicle while driving, it could result in a loss of vehicle control, increasing the risk of a crash.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : This can result in all of the hub bolts on a wheel to loosen to the point where they can detach. In addition, the subject vehicles were equipped with wheels that contained excessive roughness on a contact surface and bolt holes that were misaligned. These conditions can lead to further reduction of the overall wheel slip resistance torque. If a wheel detaches from the vehicle while driving, it could result in a loss of vehicle control, increasing the risk of a crash.

Description of the Cause : NR

Identification of Any Warning  
that can Occur : NR**Involved Components :**

Component Name 1 : BOLT, HUB

Component Description : Hub bolt

Component Part Number : 90942-02090

Component Name 2 : WHEEL, DISC

Component Description : Wheel (18 inch)

Component Part Number : 42611-0R510

Component Name 3 : WHEEL, DISC

Component Description : Wheel (18 inch)

Component Part Number : 42611-0R630

Component Name 4 : WHEEL, DISC

Component Description : Wheel (20 inch)

Component Part Number : 42611-0R530

Component Name 5 : WHEEL, DISC

Component Description : Wheel (20 inch)

Component Part Number : 42611-0R540

## Supplier Identification :

### Component Manufacturer

Name : MEIDOH CO., Ltd.

Address : 4-5 Sengen-cho  
Toyota-shi Aichi Foreign States 471-0037

Country : Japan

## Chronology :

Please see the attached Part 573 Defect Information Report for the full chronology.

## Description of Remedy :

Description of Remedy Program : All known owners of the subject Toyota bZ4X vehicles will be notified. The dealer will replace the hub bolts with newly designed hub bolts with a washer. In addition, the dealer will replace the wheels with improved ones. The remedy will be provided at no cost to the customer.

Subaru has informed Toyota that no Solterra vehicles have been sold to dealers or retail purchasers.

As the owner notification letters will be mailed out well within the active period of the Toyota 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.

How Remedy Component Differs from Recalled Component : NR

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

## Recall Schedule :

Description of Recall Schedule : Toyota will notify bZ4X owners about this issue through a number of communication channels, including email, phone calls, and first-class mail. Toyota will begin notifying customers on June 23, 2022. The owner letter required by 49 CFR Part 577 will be sent by August 22, 2022. A copy of the draft owner letter will be submitted as soon as it is available.

Subaru has informed Toyota that no Solterra vehicles have been sold to dealers or retail purchasers.

Notifications to Toyota distributors/dealers will be sent by June 23, 2022. Copies of dealer communications will be submitted as they are issued.

Subaru has informed Toyota that no Solterra vehicles have been sold to dealers or retail purchasers. Notifications to Subaru distributors will be sent by June 23, 2022. Copies of communications will be submitted as they are issued.

Planned Dealer Notification Date : JUN 23, 2022 - JUN 23, 2022

Planned Owner Notification Date : JUN 23, 2022 - AUG 22, 2022

\* NR - Not Reported