

Part 573 Safety Recall Report

22V-944

Manufacturer Name : BMW of North America, LLC**Submission Date :** DEC 20, 2022**NHTSA Recall No. :** 22V-944**Manufacturer Recall No. :** NR**Manufacturer Information :**

Manufacturer Name : BMW of North America, LLC

Address : P.O. Box 1227

Westwood NJ 07675-1227

Company phone : 18005257417

Population :

Number of potentially involved : 14,086

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2022-2023 BMW iX xDrive40, iX xDrive50, iX M60

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : HYBRID ELECTRIC

Descriptive Information : Approximately 5,389 vehicles were manufactured with a high voltage battery electronic control unit containing software that may, during certain vehicle operating conditions, result in an interruption of electrical power.

Basis for recall population determination:

Vehicle manufacturing information and supplier production records were reviewed to determine the potentially affected vehicle population.

Recall component difference to non-recall component:

The 7 high voltage battery electronic control unit software may not perform as intended.

Production Dates : FEB 04, 2021 - OCT 28, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2022-2023 BMW i4 eDrive35, i4 eDrive40, i4 M50

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : Approximately 8,659 vehicles were manufactured with a high voltage battery electronic control unit containing software that may, during certain vehicle operating conditions, result in an interruption of electrical power.

Basis for recall population determination:

Vehicle manufacturing information and supplier production records were reviewed to determine the potentially affected vehicle population.

Recall component difference to non-recall component:

The high voltage battery electronic control unit software may not perform as intended.

Production Dates : MAR 17, 2021 - OCT 26, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 3 : 2023-2023 BMW i7 xDrive60

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : Approximately 38 vehicles were manufactured with a high voltage battery electronic control unit containing software that may, during certain vehicle operating conditions, result in an interruption of electrical power.

Basis for recall population determination:

Vehicle manufacturing information and supplier production records were reviewed to determine the potentially affected vehicle population.

Recall component difference to non-recall component:

The high voltage battery electronic control unit software may not perform as intended.

Production Dates : FEB 22, 2022 - OCT 27, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : The high voltage battery electronic control unit software may, during certain vehicle operating conditions, cause an interruption of electrical power. Specifically, a misdiagnosis can sporadically occur within the battery management electronics, which could cause the electronic control unit to reset. If a reset occurs, this could cause an interruption of electrical power.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If an interruption of electrical power occurs while driving, it may result in a brief loss of power, or stalling, which could increase the risk of a crash. However, a restart of the vehicle is possible, and would allow for continued driving. The driver would also be alerted by a warning message.

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : High Voltage Battery Software

Component Description : High Voltage Battery Software

Component Part Number : N/A - software issue

Supplier Identification :**Component Manufacturer**

Name : Panasonic Industrial Devices Europe GmbH

Address : Zeppelinstrasse 19
Lueneburg Foreign States 21337

Country : Germany

Chronology :

On June 22, 2022, BMW became aware of a BMW electric vehicle at a dealer in China which contained a warning lamp regarding a drivetrain issue. Diagnostics indicated that the issue pointed to the high voltage battery electronic control unit. An engineering review was initiated.

Various tests and analyses were conducted including software and hardware tests, and a review of field data. Laboratory and road tests were performed. Field monitoring at that time did not indicate that any vehicle had experienced a permanent (i.e., no ability to restart) loss of power. The analyses indicated that the warranty claim rate was less than 0.1%, although there were no known cases in the US market. Nevertheless, the engineering review and field monitoring activities continued.

In August and September, additional warranty cases involving a temporary (i.e., ability to restart) loss of power became known, but the rate was still well below 1%. Approximately five cases were received in the US. At that time, there were no known incidents involving a permanent loss of power. Analyses and testing continued.

By late November, approximately five additional warranty cases in the US became known, and results from additional tests and analyses were available. It was suggested that, during certain vehicle operating conditions, an increase in cases involving loss of power could occur over time.

Vehicle assembly information and supplier production and process records were reviewed to determine the number, and production dates, of potentially affected vehicles.

On December 13, 2022, BMW decided to conduct a voluntary safety recall.

BMW has not received any reports, nor is BMW otherwise aware, of any accidents or injuries related to this issue.

Description of Remedy :

Description of Remedy Program : The high voltage battery electronic control unit software will be updated.

Owners will be notified by First Class mail advising them of the recall and to schedule an appointment with an authorized BMW dealer to have the remedy performed for free. If this condition were to occur to a potentially affected vehicle prior to this recall, the remedy would be covered by the BMW New Vehicle Limited Warranty program. Therefore, reimbursement for a pre-notification remedy re Part 573.13 and Part 577.11 is not necessary.

How Remedy Component Differs from Recalled Component : Recall component: High Voltage Battery Software – part number: (N/A - software)

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

Recall Schedule :

Description of Recall Schedule : Dealer notification is expected to begin and end on December 20, 2022.

Owner notification is expected to begin and end on February 10, 2023.

Planned Dealer Notification Date : DEC 20, 2022 - DEC 20, 2022

Planned Owner Notification Date : FEB 10, 2023 - FEB 10, 2023

* NR - Not Reported