

Part 573 Safety Recall Report

22V-683

Manufacturer Name : BMW of North America, LLC**Submission Date :** SEP 13, 2022**NHTSA Recall No. :** 22V-683**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 : 1

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2022-2022 BMW 745e xDrive

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : Approximately 1 vehicle was manufactured with a high voltage battery that may not have been produced by the supplier according to specifications.

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:

One or more battery cells may not have been produced by the supplier according to specifications.

Production Dates : AUG 23, 2021 - AUG 23, 2021

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : The high voltage battery may not have been produced by the supplier according to specifications. During the production and assembly process of the battery cell, an electrode may not have been properly sized during the laser cutting process. If a battery cell was assembled with a miscut electrode, this could lead to a short-circuit.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : In rare cases, a short-circuit could lead to a thermal event which could increase the risk of an injury.

Description of the Cause : NR
Identification of Any Warning NR
that can Occur :

Involved Components :

Component Name 1 : High Voltage Battery
Component Description : High Voltage Battery
Component Part Number : 8658-344/-345, 88408-38/-41

Supplier Identification :

Component Manufacturer

Name : Samsun
Address : 150-20
Gongse-ro-Giheung-gu Yongin-si Foreign States 17084
Country : Korea, Republic of

Chronology :

On May 25, 2022, a 2021 BMW 320e xDrive Touring experienced a thermal event in Finland. An engineering investigation was initiated.

Preliminary information suggested that the issue might be related to 20V-601, in which debris was able to enter a battery cell during supplier production, but further information and analyses were necessary. In order to accurately determine the root cause of the incident, access to the vehicle and the battery would be needed.

In June and July, BMW contacted the vehicle owner and the insurance company in an attempt to gain access to the vehicle. However, it was not until mid-July that the vehicle was made available.

In mid-July, the vehicle analysis was able to commence in Finland. Initial analyses of the vehicle did not result in an identification of the root cause, and therefore, analyses of the battery would also be necessary.

In mid-August, the battery was shipped to BMW for analysis. Analyses consisted of CT scans of battery cells, and battery module and cell disassembly in conjunction with the battery supplier. Analyses of CT scan data and disassembled components were performed.

In early September, it was finally determined that the root cause of the field incident was a damaged electrode

within a cell, which was further confirmed by reviews of supplier production records in which certain electrodes may not have been properly sized during the laser cutting process.

On September 6, 2022, BMW decided to conduct a voluntary safety recall.

BMW is not aware of any accidents or injuries related to this issue.

Description of Remedy :

Description of Remedy Program : The affected battery cell module will be replaced.

The one affected owner is being contacted by phone. If necessary, the one owner will also 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 – part number: 8658-344/-345, 88408-38/-41

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 September 13, 2022.

Owner notification is expected to begin and end on November 7, 2022

Planned Dealer Notification Date : SEP 13, 2022 - SEP 13, 2022

Planned Owner Notification Date : NOV 07, 2022 - NOV 07, 2022

* NR - Not Reported