

Part 573 Safety Recall Report

23V-099

Manufacturer Name : BMW of North America, LLC

Submission Date : FEB 17, 2023

NHTSA Recall No. : 23V-099

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 : 3,193

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2023-2023 BMW 8 Series Coupe (840i, 840i xDrive, M850i xDrive, M8)

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : Approximately 414 vehicles may not fully conform to FMVSS 118 Section 4.

Basis for recall population determination: Vehicle assembly information and supplier production records were reviewed to determine the production date range of potentially affected vehicles.

Recall component difference to non-recall component: Software in potentially affected vehicles may not appropriately recognize the removal of the digital key from the vehicle.

Production Dates : OCT 18, 2022 - FEB 15, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 2 : 2023-2023 BMW 8 Series Convertible (840i, 840i xDrive, M850i xDrive, M8)
Vehicle Type : LIGHT VEHICLES
Body Style : 2-DOOR
Power Train : GAS

Descriptive Information : Approximately 526 vehicles may not fully conform to FMVSS 118 Section 4.

Basis for recall population determination: Vehicle assembly information and supplier production records were reviewed to determine the production date range of potentially affected vehicles.

Recall component difference to non-recall component: Software in potentially affected vehicles may not appropriately recognize the removal of the digital key from the vehicle.

Production Dates : OCT 14, 2022 - FEB 15, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 3 : 2023-2023 BMW 8 Series Gran Coupe (840i, 840i xDrive, M850i xDrive, M8, Alpina B8 xDrive)
Vehicle Type : LIGHT VEHICLES
Body Style : 4-DOOR
Power Train : GAS

Descriptive Information : Approximately 806 vehicles may not fully conform to FMVSS 118 Section 4.

Basis for recall population determination: Vehicle assembly information and supplier production records were reviewed to determine the production date range of potentially affected vehicles.

Recall component difference to non-recall component: Software in potentially affected vehicles may not appropriately recognize the removal of the digital key from the vehicle.

Production Dates : OCT 28, 2022 - FEB 15, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 4 : 2023-2023 BMW 2 Series Coupe (230i, 230i xDrive, M240i, M240i xDrive, M2)

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : Approximately 968 vehicles may not fully conform to FMVSS 118 Section 4.

Basis for recall population determination: Vehicle assembly information and supplier production records were reviewed to determine the production date range of potentially affected vehicles.

Recall component difference to non-recall component: Software in potentially affected vehicles may not appropriately recognize the removal of the digital key from the vehicle.

Production Dates : AUG 01, 2022 - FEB 13, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 5 : 2022-2023 BMW Z4 sDrive30i, Z4 M40i

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : Approximately 479 vehicles may not fully conform to FMVSS 118 Section 4.

Basis for recall population determination: Vehicle assembly information and supplier production records were reviewed to determine the production date range of potentially affected vehicles.

Recall component difference to non-recall component: Software in potentially affected vehicles may not appropriately recognize the removal of the digital key from the vehicle.

Production Dates : FEB 09, 2022 - FEB 15, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Noncompliance :

Description of the Noncompliance : This non-compliance recall involves software coding of the Electronic Control Unit (ECU) pertaining to the digital key function and affects the operation of the vehicle's windows and roof systems. When the digital key is removed from the vehicle, then in certain vehicle operating conditions, closing of the vehicle's windows and roof systems may still be possible. Therefore, potentially affected vehicles may not fully conform to FMVSS 118 Section 4.

FMVSS 1 : 118 - Power-operated window systems

FMVSS 2 : NR

Description of the Safety Risk : This condition could increase the risk of injury. However, vehicles are equipped with an auto-reversal / anti-trap function to help reduce injury risk.

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : Digital Key ECU Software Coding

Component Description : Digital Key Electronic Control Unit (ECU) Software Coding

Component Part Number : N/A - software issue

Supplier Identification :

Component Manufacturer

Name : BMW AG

Address : NR

NR

Country : NR

Chronology :

On January 18, 2023, an atypical test result occurred during digital key testing. An engineering review was initiated.

Additional testing and analyses involving various vehicle types and build configurations was performed. Worldwide regulatory requirements, including FMVSS 118, were reviewed.

Analyses of vehicle electronic control unit communications involving the functionality of the digital key were performed. It was suggested that, due to the test results obtained in certain vehicle operating conditions, there might be an issue related to FMVSS 118. Further reviews of software / coding indicated that certain aspects of the software, specifically for US market regulatory requirements, may not have been coded as intended.

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

On February 10, 2023, BMW decided to conduct a voluntary non-compliance recall.

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

Description of Remedy :

Description of Remedy Program : Customer vehicles will have the applicable Electronic Control Unit (ECU) programmed with updated software. Dealer vehicles will have the key card removed. In addition, the digital key function via cellular service and WiFi capability (i.e., cloud functionality) will be deactivated until the vehicle is updated with new software.

Owners are planned to be notified by First Class mail and instructed to take their vehicle to an authorized BMW dealer to have the remedy performed for free. If this condition was noticed on 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 : Recalled Component: Digital Key Electronic Control Unit (ECU) Software Coding – part number – N/A – software coding

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

Recall Schedule :

Description of Recall Schedule : Notification to dealers is planned to begin and end on February 17, 2023.

Notification to owners is planned to begin and end on April 11, 2023.

Planned Dealer Notification Date : FEB 17, 2023 - FEB 17, 2023

Planned Owner Notification Date : APR 11, 2023 - APR 11, 2023

* NR - Not Reported