

Part 573 Safety Recall Report

20V-164

Manufacturer Name : BMW of North America, LLC**Submission Date :** MAR 19, 2020**NHTSA Recall No. :** 20V-164**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 : 3,316

Estimated percentage with defect : 10 %

Vehicle Information :

Vehicle 1 : 2020-2020 BMW X3 xDrive30e

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : HYBRID ELECTRIC

Descriptive Information : Approximately 40 vehicles contain a driver and/or front passenger safety belt buckle in which the wiring for the Hall effect sensor may not have been produced to the specified length.

Basis for recall population determination: Supplier production records were used to determine the specific dates in which an out-of-specification Hall effect sensor and wiring, integrated with the safety belt buckle, may have been delivered to vehicle assembly plants. Vehicle assembly information was used to determine the date range in which suspect front safety belt buckles may have been installed.

Recall component difference to non-recall component: The wiring for the Hall effect sensor, which is integrated with the driver and front passenger safety belt buckle, may not have been produced to the specified length.

Production Dates : JAN 21, 2020 - FEB 17, 2020

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2020-2020 BMW X4 xDrive30i, X4 M40i, X4M

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Approximately 267 vehicles contain a driver and/or front passenger safety belt buckle in which the wiring for the Hall effect sensor may not have been produced to the specified length.

Basis for recall population determination: Supplier production records were used to determine the specific dates in which an out-of-specification Hall effect sensor and

wiring, integrated with the safety belt buckle, may have been delivered to vehicle assembly plants. Vehicle assembly information was used to determine the date range in which suspect front safety belt buckles may have been installed.

Recall component difference to non-recall component: The wiring for the Hall effect sensor, which is integrated with the driver and front passenger safety belt buckle, may not have been produced to the specified length.

Production Dates : JAN 15, 2020 - FEB 17, 2020

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 3 : 2020-2020 BMW 330i, 330i xDrive, M340i

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Approximately 1,138 vehicles contain a driver and/or front passenger safety belt buckle in which the wiring for the Hall effect sensor may not have been produced to the specified length.

Basis for recall population determination: Supplier production records were used to determine the specific dates in which an out-of-specification Hall effect sensor and wiring, integrated with the safety belt buckle, may have been delivered to vehicle assembly plants. Vehicle assembly information was used to determine the date range in which suspect front safety belt buckles may have been installed.

Recall component difference to non-recall component: The wiring for the Hall effect sensor, which is integrated with the driver and front passenger safety belt buckle, may not have been produced to the specified length.

Production Dates : JAN 28, 2020 - FEB 06, 2020

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 4 : 2020-2020 BMW 840i Gran Coupe, 840i xDrive Gran Coupe, M850i xDrive Gran Coupe, M8 Gran Coupe

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Approximately 6 vehicles contain a driver and/or front passenger safety belt buckle in which the wiring for the Hall effect sensor may not have been produced to the specified length.

Basis for recall population determination: Supplier production records were used to determine the specific dates in which an out-of-specification Hall effect sensor and wiring, integrated with the safety belt buckle, may have been delivered to vehicle assembly plants. Vehicle assembly information was used to determine the date range in which suspect front safety belt buckles may have been installed.

Recall component difference to non-recall component: The wiring for the Hall effect sensor, which is integrated with the driver and front passenger safety belt buckle, may not have been produced to the specified length.

Production Dates : JAN 29, 2020 - FEB 12, 2020

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 5 : 2020-2020 BMW X3 sDrive30i, X3 xDrive30i, X3 M40i, X3M

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Approximately 1,864 vehicles contain a driver and/or front passenger safety belt buckle in which the wiring for the Hall effect sensor may not have been produced to the specified length.

Basis for recall population determination: Supplier production records were used to determine the specific dates in which an out-of-specification Hall effect sensor and wiring, integrated with the safety belt buckle, may have been delivered to vehicle assembly plants. Vehicle assembly information was used to determine the date range in which suspect front safety belt buckles may have been installed.

Recall component difference to non-recall component: The wiring for the Hall effect sensor, which is integrated with the driver and front passenger safety belt buckle, may not have been produced to the specified length.

Production Dates : JAN 15, 2020 - FEB 17, 2020

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 6 : 2020-2020 BMW 840i xDrive Convertible

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : Approximately 1 vehicle contains a driver and/or front passenger safety belt buckle in which the wiring for the Hall effect sensor may not have been produced to the specified length.

Basis for recall population determination: Supplier production records were used to determine the specific dates in which an out-of-specification Hall effect sensor and wiring, integrated with the safety belt buckle, may have been delivered to vehicle assembly plants. Vehicle assembly information was used to determine the date range in which suspect front safety belt buckles may have been installed.

Recall component difference to non-recall component: The wiring for the Hall effect sensor, which is integrated with the driver and front passenger safety belt buckle, may not have been produced to the specified length.

Production Dates : FEB 13, 2020 - FEB 13, 2020

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : This safety recall involves the driver and/or front passenger safety belt buckle in which the wiring for the Hall effect sensor may not have been produced to the specified length. Excessive bending of the buckle could cause the sensor to start to separate from the buckle. If this were to occur, then the sensor could erroneously detect a belted occupant condition as unbelted, and lead to an inappropriate restraint strategy in a crash.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : In certain crashes, an inappropriate restraint strategy, involving the air bag and/or the safety belt pre-tensioner and load-limiter, could increase the risk of injury.

Description of the Cause : NR

Identification of Any Warning that can Occur : If the system detects a front seat belted occupant as unbelted, this would result in an audible warning signal and a visual warning symbol.

Supplier Identification :**Component Manufacturer**

Name : TRW VEHICLE SAFETY SYSTEMS DE MEXICO. D

Address : Boulevard Mike Allen No. 1370

Reynosa Tamaulipas FOREIGN STATES 88780

Country : Mexico

Chronology :

On January 24, 2020, during a vehicle road test, a continuous audible and visual warning of the safety belt reminder system was noticed. BMW contacted the safety belt system supplier.

Between February and March, an engineering review, and discussions with the supplier, were conducted. Supplier records were checked, and were able to determine that during a maintenance action of one of the supplier production machines, a parameter was inadvertently changed. Further reviews were able to identify that this parameter change could allow an out-of-specification tolerance to be applied to the mating process between the Hall effect sensor and the buckle. This could result in the wiring containing the Hall effect sensor to not be produced to the specified length.

The engineering review suggested that, although vehicles do not exhibit this condition at delivery, over time

and under certain conditions, e.g., during excessive bending of the safety belt buckle, the Hall effect sensor could start to separate from the buckle. If this were to occur, this could result in an erroneous detection of a belted occupant as unbelted and, therefore, not provide the appropriate restraint strategy.

Vehicle manufacturing and supplier production records were examined in order to determine the number, and production date range, of potentially affected vehicles.

On March 12, 2020, BMW decided to conduct a voluntary 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 front safety belt buckle(s) will be inspected and, if necessary, replaced. If this condition were to occur to a potentially affected vehicle prior to the 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: Front Seat Safety Belt Buckle; p/n 7414301

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

Recall Schedule :

Description of Recall Schedule : Notification to dealers is expected to begin and end on March 19, 2020. Notification to owners is expected to begin and end on May 11, 2020.

Planned Dealer Notification Date : MAR 19, 2020 - MAR 19, 2020

Planned Owner Notification Date : MAY 11, 2020 - MAY 11, 2020

* NR - Not Reported