

Part 573 Safety Recall Report

19V-310

Manufacturer Name : BMW of North America, LLC**Submission Date :** APR 17, 2019**NHTSA Recall No. :** 19V-310**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 : 159

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2018-2018 BMW i3 BEV

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : Approximately 25 vehicles contain an Electric Motor Electronics (EME) module that may not have been produced to specifications.

Basis for recall population determination: Supplier production information was used to identify the start and end date of the EME modules which may have been subject to an out-of-specification production process which was then correlated with vehicle assembly information to determine the start date and the end date of potentially affected vehicles.

Recall component difference to non-recall component: The recall component contains a Printed Circuit Board (PCB) that may not have been produced to specifications.

Production Dates : JAN 15, 2018 - JAN 30, 2018

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2018-2018 BMW i3 REx

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : Approximately 134 vehicles contain an Electric Motor Electronics (EME) module that may not have been produced to specifications.

Basis for recall population determination: Supplier production information was used to identify the start and end date of the EME modules which may have been subject to an out-of-specification production process which was then correlated with vehicle

assembly information to determine the start date and the end date of potentially affected vehicles.

Recall component difference to non-recall component: The recall component contains a Printed Circuit Board (PCB) that may not have been produced to specifications.

Please note that the i3 REx end date is entered as 02/20/2018, but it should be 02/19/2018. In the draft upload process, the portal accepts 02/18/2018 and 02/20/2018, but not 02/19/2018.

Production Dates : JAN 13, 2018 - FEB 20, 2018

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : This safety recall involves the Electric Motor Electronics (EME) module. During production at a sub-supplier, the EME's Printed Circuit Board (PCB) may not have been produced to specifications. This could lead to an increase in transition resistance at certain PCB contact points and cause a loss of electrical contact. The EME module would detect this condition and, appropriately, shut down high-voltage electrical power.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A shut down of high-voltage electrical power would result in a loss of propulsion, increasing the risk of a crash. However, the 12-volt electrical power remains functional to support power steering and braking.

Description of the Cause : The Printer Circuit Board (PCB) did not undergo a sufficient cleaning process during sub-supplier production.

Identification of Any Warning that can Occur : NR

Supplier Identification :

Component Manufacturer

Name : Zollner Elektronik AG

Address : Manfred-Zollner Strasse 1
Zandt FOREIGN STATES 93499

Country : Germany

Chronology :

Between September and November 2018, BMW became aware of several field incidents involving high-voltage electrical power loss on Model Year 2018 BMW i3 vehicles. An initial review of the incidents was conducted, but the nature of the power loss was not clear.

In early 2019, several additional field incidents occurred. Further reviews were conducted, which also involved the Electric Motor Electronics (EME) supplier and sub-supplier.

On April 2, 2019, the Tier-1 supplier informed BMW that certain EME modules may not have been produced to specifications. The supplier indicated that the EME's Printed Circuit Board (PCB) may not have undergone a sufficient cleaning process during Tier-2 supplier production.

A review of the Tier-2 supplier's production records was able to identify the time period in which the PCBs received an insufficient cleaning process. Further reviews identified the specific production dates of potentially affected PCBs.

Vehicle manufacturing and Tier-1/Tier-2 supplier production records were examined in order to determine the number, and production dates, of potentially affected vehicles.

On April 10, 2019, 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 Electric Motor Electronics (EME) will be replaced. Owners will be notified by First Class mail and instructed to take their vehicle to an authorized BMW center to have the remedy performed for free. 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 : Electric Motor Electronics (EME) p/n 8488543, 848854, 8488547, 8488548

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 17 Apr 2019.
Notification to owners is expected to begin and end on 07 Jun 2019.

Planned Dealer Notification Date : APR 17, 2019 - APR 17, 2019

Planned Owner Notification Date : JUN 07, 2019 - JUN 07, 2019

* NR - Not Reported