

# Part 573 Safety Recall Report

# 18V-453

**Manufacturer Name :** BMW of North America, LLC**Submission Date :** JUL 30, 2018**NHTSA Recall No. :** 18V-453**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 : 5,594

Estimated percentage with defect : 1 %

**Vehicle Information :**

Vehicle 1 : 2018-2019 BMW X3 sDrive30i, X3 xDrive30i, X3 M40i

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

**Descriptive Information :** Approximately 5,445 vehicles may have been manufactured with rear brake calipers that were not produced to specifications by the supplier due to an improper coating process involving the caliper pistons.

**Basis for recall population determination:** Supplier production information was used to identify the start and end date of the improper coating process which was then correlated with vehicle assembly information to determine the start date (04/16/2018) and the end date (06/01/2018) of affected vehicles.

**Recall component difference to non-recall component:** Rear brake caliper pistons may not have been properly coated during supplier production.

Production Dates : APR 16, 2018 - JUN 01, 2018

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2019-2019 BMW X4 xDrive30i, X4 M40i

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

**Descriptive Information :** Approximately 149 vehicles may have been manufactured with rear brake calipers that were not produced to specifications by the supplier due to an improper coating process involving the caliper pistons.

**Basis for recall population determination:** Supplier production information was used to identify the start and end date of the improper coating process which was then correlated with vehicle assembly information to determine the start date

(05/10/2018) and the end date (05/31/2018) of affected vehicles.

Recall component difference to non-recall component: Rear brake caliper pistons may not have been properly coated during supplier production.

Production Dates : MAY 10, 2018 - MAY 31, 2018

VIN Range 1 : Begin :

NR

End : NR

Not sequential

## Description of Defect :

Description of the Defect : This safety recall involves the rear brake calipers in which the caliper's pistons may not have been sufficiently coated during production by the supplier. An incomplete coating process may cause gas to temporarily be trapped and then subsequently released into the rear brake circuit, causing formation of gas pockets within the circuit.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If gas pockets are present within the rear brake circuit, this could lead to reduced rear brake performance, increasing the risk of a crash.

Description of the Cause : NR

Identification of Any Warning that can Occur : The driver may experience a small increase in brake pedal travel.

## Supplier Identification :

### Component Manufacturer

Name : ZF TRW Global Braking

Address : 12025 Tech Center Dr.

Livonia 48150

Country : United States

## Chronology :

On May 7, 2018, while moving a vehicle at the assembly plant, a driver noted that there was an increase in brake pedal travel. It was initially thought that the issue might be caused by contaminated brake fluid, or related to a brake system component. Additional vehicles were inspected, and initial discussions occurred with the supplier, but no further cases were found. In mid-May, several cases from dealers were noted.

On May 24th, after further analysis, the supplier indicated that the rear brake calipers may not have been produced according to a process specification, specifically involving the coating of the caliper's piston.

Further reviews and analyses were conducted to identify and understand if a possible reduction in rear brake performance could occur. Criteria such as brake pedal travel and force, and possible affect upon stopping distance, were analyzed. Due to the design of the vehicle brake system, with a front/rear split, only the rear brake circuit could be potentially affected.

In mid-June, FMVSS 135 requirements were reviewed, including fulfillment of the stopping distance requirements in the event of a rear brake circuit failure. A Service Information Bulletin was issued to replace the rear brake calipers until a complete assessment and scope was determined.

Although front brake performance was not affected, on June 29th, in an abundance of caution, 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 rear brake circuit will be bled.

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 : Recalled Component: N/A (the rear brake caliper is not being replaced; the rear brake circuit is being bled).

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 July 6, 2018.  
Notification to owners is planned to begin and end on August 21, 2018.

Planned Dealer Notification Date : JUL 06, 2018 - JUL 06, 2018

Planned Owner Notification Date : AUG 21, 2018 - AUG 21, 2018

\* NR - Not Reported