

Part 573 Safety Recall Report

21V-046

Manufacturer Name : BMW of North America, LLC**Submission Date :** FEB 03, 2021**NHTSA Recall No. :** 21V-046**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 : 28

Estimated percentage with defect : 56 %

Vehicle Information :

Vehicle 1 : 2020-2021 BMW 530i xDrive, 540i xDrive

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Approximately 4 vehicles have been assembled with a left output shaft that may not have been produced to specifications.

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

Recall component difference to non-recall component: The left output shaft may not have been produced to specifications.

Production Dates : MAY 29, 2020 - JUN 26, 2020

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2021-2021 BMW 740Li xDrive

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Approximately 24 vehicles have been assembled with a right output shaft that may not have been produced to specifications.

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

Recall component difference to non-recall component: The right output shaft may not have been produced to specifications.

Production Dates : MAR 13, 2020 - JUN 19, 2020

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : This safety recall involves the output shafts (left / right) which transfer power from the driveshaft to the rear wheels. Due to an unexpected deviation in the heat treatment process (hardening / tempering time) during supplier production, the output shaft(s) may not have been produced to specifications.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Over time, the output shaft(s) could become damaged and break, which could lead to a loss of propulsion and increase the risk of a crash, and also a rollaway condition in a parked vehicle if the parking brake was not engaged.

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : Output Shaft

Component Description : Output Shaft

Component Part Number : 5 Series – Left (8664049), 7 Series – Right (8639474)

Supplier Identification :**Component Manufacturer**

Name : GKN Driveline GmbH
Address : Glauchauer Str. 38
Zwickau Foreign States 08058
Country : Germany

Chronology :

On Oct 7, 2020, a non-US field report was received regarding a 2020 BMW 5 Series with an indication of a powertrain issue involving a rear output shaft. The part was requested for return and analyses.

In late October, the part was received and the analysis was initiated. In early November, the analysis showed that the surface hardness and curing depth of the shaft did not correspond to specifications and, therefore, it was suggested that it might be related to an improper heat treatment process during supplier production.

In November and December 2020, additional analyses and testing were performed, including an attempt to reproduce the damage exhibited by the output shaft that might have occurred as a result of a possible issue during supplier production.

Between December 2020 and January 2021, further reviews were performed, including an analysis of supplier production records. The reviews indicated that an unexpected deviation occurred during supplier production of output shafts. A sensor, which monitors the heat treatment process (hardening/tempering time) during production of the output shafts, had been damaged. As a result, output shafts may not have been produced to specifications as a result of a deviation from the required curing time. Upon further review of temperature time-history curves involving the heat treatment process, it became apparent that a small number of vehicles, produced between March and July 2020, may have been equipped with output shafts that may not have been produced to specifications.

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

On January 27, 2021, 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 affected output shaft will be replaced.

Owners will be notified by First Class mail and instructed to take their vehicles to an authorized BMW center to have the remedy performed for free. If this condition were to occur 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: Output Shaft [5 Series – Left (8664049), 7 Series – Right (8639474)]

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 3, 2021. Notification to owners is planned to begin and end on March 29, 2021.

Planned Dealer Notification Date : FEB 03, 2021 - FEB 03, 2021

Planned Owner Notification Date : MAR 29, 2021 - MAR 29, 2021

* NR - Not Reported