

**Part 573 Safety Recall Report****14V-627****Manufacturer Name :** BMW of North America, LLC**Submission Date :** OCT 03,2014**NHTSA Recall No. :** 14V-627**Manufacturer Recall No. :** NR**Manufacturer Information :**

Manufacturer Name : BMW of North America, LLC

Address : P.O. Box 1227

200 Chestnut Ridge Road Westwood NJ 07675-122

Company phone : 999-999-9999

**Population :**

Number of potentially involved : 8,988

Estimated percentage with defect : 1

**Vehicle Information :**

Vehicle : 2014-2014 BMW 328i xDrive Sports Wagon

Vehicle Type : LIGHT VEHICLES

Body Style : STATIONWAGON

Power Train : GAS

Descriptive Information :

On affected vehicles, due to an insufficient interference fit, a seal disk in the hollow camshaft core may move during engine operation and potentially block or restrict the pressurized oil supply holes which are necessary for lubricating the vacuum pump. Three (3) vehicles are potentially affected.

Production Dates : MAR 01, 2013 - MAY 17, 2013

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

 Not sequential VINs

Vehicle : 2012-2014 BMW 320i Sedan, 328i Sedan, 320i xDrive Sedan, 328i xDrive Sedan

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information :

On affected vehicles, due to an insufficient interference fit, a seal disk in the hollow camshaft core may move during engine operation and potentially block or restrict the pressurized oil supply holes which are necessary for lubricating the vacuum pump. 5,721 vehicles are potentially affected.

Production Dates : JUN 11, 2012 - MAY 26, 2014

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

 Not sequential VINs

Vehicle : 2012-2013 BMW 528i Sedan, 528i xDrive Sedan

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : On affected vehicles, due to an insufficient interference fit, a seal disk in the hollow camshaft core may move during engine operation and potentially block or restrict the pressurized oil supply holes which are necessary for lubricating the vacuum pump. 718 vehicles are potentially affected.

Production Dates : JUN 18, 2012 - JUN 10, 2013

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2013-2014 BMW X1 sDrive28i, X1 xDrive28i Sports Activity Vehicle

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : On affected vehicles, due to an insufficient interference fit, a seal disk in the hollow camshaft core may move during engine operation and potentially block or restrict the pressurized oil supply holes which are necessary for lubricating the vacuum pump. 1,279 vehicles are potentially affected.

Production Dates : JUL 05, 2012 - JUN 27, 2013

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2013-2014 BMW X3 xDrive28i Sports Activity Vehicle

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : On affected vehicles, due to an insufficient interference fit, a seal disk in the hollow camshaft core may move during engine operation and potentially block or restrict the pressurized oil supply holes which are necessary for lubricating the vacuum pump. 1,173 vehicles are potentially affected.

Production Dates : JUL 17, 2012 - AUG 05, 2013

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2012-2014 BMW Z4 sDrive28i Roadster

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

**Descriptive Information :** On affected vehicles, due to an insufficient interference fit, a seal disk in the hollow camshaft core may move during engine operation and potentially block or restrict the pressurized oil supply holes which are necessary for lubricating the vacuum pump. 93 vehicles are potentially affected.

Production Dates : JUN 12, 2012 - JUN 10, 2013

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2014-2014 BMW 428i Coupe, 428i xDrive Coupe

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

**Descriptive Information :** On affected vehicles, due to an insufficient interference fit, a seal disk in the hollow camshaft core may move during engine operation and potentially block or restrict the pressurized oil supply holes which are necessary for lubricating the vacuum pump. Three (3) vehicles are potentially affected.

Production Dates : JUN 27, 2013 - JUN 28, 2013

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

**Description of Defect :**

**Description of the Defect :** This recall involves the loss of oil supply to the vacuum pump on the affected vehicles. The vacuum pump is both mechanically driven and supplied with pressurized oil for lubrication and internal sealing purposes from the engine via a port at the end of the intake camshaft. In rare cases, due to an insufficient interference fit, a seal disk in the hollow camshaft core may move during engine operation and potentially block or restrict the pressurized oil supply holes which are necessary for lubricating the vacuum pump. If this were to occur, the vacuum pump could fail over time, ultimately resulting in loss of power assist braking. Even with loss of assist, the service brake control is able to stop the vehicle because affected vehicles meet the applicable FMVSS pertaining to conditions in which there is a loss of power assist braking.

**Description of the Safety Risk :** If the vacuum pump failed, a loss of power assist braking would occur.

**Description of the Cause :** NR

**Identification of Any Warning that can Occur :** NR

**Supplier Identification :****Component Manufacturer**

Name : NR

Address : NR

NR

Country : NR

**Chronology :**

This is an amendment to 13V-454 that BMW filed on September 26, 2013.

In early July, based upon two vehicles that had experienced this condition in Japan which were not included in the affected vehicle population, BMW reviewed the field information to determine if the root cause leading to the condition experienced by these two vehicles was identical to the root cause identified for the recalled vehicles. After determining that these two vehicles were indeed subject to the same root cause, the reason these vehicles had not been included in the original population of affected vehicles needed to be identified.

In late July, the need for a comprehensive analysis, involving the re-examination of the data and information that was originally used to establish the recall population, was confirmed. In early August, BMW initiated this effort, including the collection of the relevant lists of camshaft and cylinder-head production records at the supplier, engine production records at the engine plant, and vehicle assembly records across multiple vehicle assembly plants. During August, these records were identified at the various sources and collected for analysis.

In September, all of the component / engine production and vehicle assembly records were reviewed, analyzed, and compared. This comprehensive re-examination finally led to the conclusion that during the association (matching) of affected camshafts and cylinder heads to engines, and then engines to vehicles, a portion of the potentially affected vehicle population had not been identified. As a result, an additional 8,988 vehicles are now included in the USA campaign.

On September 25, 2014, BMW decided to amend this voluntary recall.

**Description of Remedy :**

Description of Remedy Program : A locking ring will be inserted into the camshaft in order to retain the camshaft seal disk in its proper location.

How Remedy Component Differs from Recalled Component : NR

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

**Recall Schedule :**

Description of Recall Schedule : NR

Planned Dealer Notification Date : OCT 03, 2014 - NOV 15, 2014

Planned Owner Notification Date : NOV 01, 2014 - NOV 30, 2014

\* NR - Not Reported