

Part 573 Safety Recall Report

18V-248

Manufacturer Name : BMW of North America, LLC**Submission Date :** APR 23, 2018**NHTSA Recall No. :** 18V-248**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 : 47,806

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2011-2012 BMW 550i, 550i xDrive

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Approximately 5,700 vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric auxiliary water pump design level can be traced to specific VIN.

Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.

Production Dates : APR 23, 2010 - SEP 14, 2011

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2010-2012 BMW 550i Gran Turismo, 550i Gran Turismo xDrive

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Approximately 687 vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric

auxiliary water pump design level can be traced to specific VIN.

Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.

Production Dates : JUL 30, 2009 - SEP 08, 2011

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 3 : 2009-2012 BMW 750i, 750Li, 750i xDrive, 750Li xDrive, 760Li (including Alpina B7)

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Approximately 8,417 vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric auxiliary water pump design level can be traced to specific VIN.

Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.

Production Dates : OCT 14, 2008 - SEP 13, 2011

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 4 : 2010-2012 BMW X5 xDrive50i, X5 M

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Approximately 3,853 vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric auxiliary water pump design level can be traced to specific VIN.

Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.

Production Dates : JUL 03, 2009 - NOV 19, 2011

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 5 : 2008-2012 BMW X6 xDrive50i, X6M

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Approximately 1,614 vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric auxiliary water pump design level can be traced to specific VIN.

Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.

Production Dates : NOV 15, 2007 - NOV 18, 2011

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 6 : 2010-2011 BMW X6 Hybrid

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : HYBRID ELECTRIC

Descriptive Information : Approximately 23 vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric auxiliary water pump design level can be traced to specific VIN.

Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.

Production Dates : SEP 14, 2009 - SEP 12, 2011

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 7 : 2012-2012 BMW 650i Coupe, 650i xDrive Coupe

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : Approximately 495 vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric auxiliary water pump design level can be traced to specific VIN.

Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.

Production Dates : DEC 10, 2010 - SEP 15, 2011

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 8 : 2011-2012 BMW ActiveHybrid7

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : Approximately 322 vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric auxiliary water pump design level can be traced to specific VIN.

Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.

Production Dates : SEP 24, 2010 - SEP 06, 2011

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 9 : 2007-2012 MINI MINI Cooper S, MINI JCW

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : Approximately 8,762 vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric

auxiliary water pump design level can be traced to specific VIN.

Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.

Production Dates : JUN 28, 2007 - SEP 23, 2011

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 10 : 2008-2012 MINI MINI Cooper S Clubman, MINI JCW Clubman

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : Approximately 2,779 vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric auxiliary water pump design level can be traced to specific VIN.

Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.

Production Dates : JAN 28, 2008 - SEP 23, 2011

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 11 : 2011-2012 MINI MINI Cooper S Convertible, MINI JCW Convertible

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : Approximately 2,192 vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric auxiliary water pump design level can be traced to specific VIN.

Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.

Production Dates : OCT 28, 2010 - SEP 23, 2011

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 12 : 2011-2012 MINI MINI Cooper S Countryman, MINI Cooper S Countryman ALL4
Vehicle Type : LIGHT VEHICLES
Body Style : 4-DOOR
Power Train : GAS

Descriptive Information : Approximately 9,669 vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric auxiliary water pump design level can be traced to specific VIN.

Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.

Production Dates : JAN 19, 2011 - SEP 30, 2011

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 13 : 2012-2012 MINI MINI Cooper S Coupe, MINI JCW Coupe (2 Seater)
Vehicle Type : LIGHT VEHICLES
Body Style : 2-DOOR
Power Train : GAS

Descriptive Information : Approximately 420 vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric auxiliary water pump design level can be traced to specific VIN.

Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.

Production Dates : JUN 22, 2011 - SEP 23, 2011

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 14 : 2012-2012 MINI MINI Cooper S Roadster, MINI JCW Roadster (2 Seater)
Vehicle Type : LIGHT VEHICLES
Body Style : 2-DOOR
Power Train : GAS

Descriptive Information : Approximately 10 vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric auxiliary water pump design level can be traced to specific VIN.

Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.

Production Dates : AUG 11, 2010 - SEP 21, 2011

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 15 : 2010-2012 Rolls-Royce Ghost

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Approximately 810 vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric auxiliary water pump design level can be traced to specific VIN.

Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.

Production Dates : JAN 24, 2010 - SEP 25, 2011

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 16 : 2012-2012 BMW 650i Convertible, 650i xDrive Convertible

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : Approximately 2,053 vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric

auxiliary water pump design level can be traced to specific VIN.

Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.

Production Dates : JAN 12, 2011 - OCT 31, 2011

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : The issue involves the electric auxiliary water pump on the models equipped with 4-cylinder turbocharged engines (MINI) and 8- and 12-cylinder turbocharged engines (BMW). The electric auxiliary water pump is controlled electronically by an engine control unit. After switching off the engine, the electric auxiliary water pump conducts heat away from the turbocharger. Under certain conditions, the electric auxiliary water pump's electronic circuit board can malfunction. The malfunction can occur as a result of certain design features in combination with high operating temperatures. Under these conditions, this can lead to a failure of the electric auxiliary water pump. In some cases, the circuit board can overheat.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : In an extreme case, overheating of the circuit board can lead to smoldering of the electric auxiliary water pump. If smoldering occurs, it cannot be excluded that this may also lead to an engine compartment or vehicle fire.

Description of the Cause : NR

Identification of Any Warning
that can Occur : NR

Supplier Identification :

Component Manufacturer

Name : Pierburg Pump Technology GmbH

Address : Alfred-Pierurg-Str. 1
Neuss FOREIGN STATES 41460

Country : Germany

Chronology :

Please refer to BMW's October 20, 2011, Part 573 report assigned NHTSA Recall ID 11V-521 and BMW's

January 10, 2012, Part 573 report assigned NHTSA Recall ID 12V-008.

In October 2017, BMW inspected a Model Year 2011 MINI Cooper S regarding a field incident in which the vehicle exhibited similar conditions to vehicles subject to 12V-008. The subject vehicle was not included in 12V-008. BMW initiated an engineering analysis and a review of its field data.

In December 2017, BMW inspected a Model Year 2011 550i xDrive regarding a field incident in which the vehicle exhibited similar conditions to vehicles subject to 11V-521. The subject vehicle was not included in 11V-521. BMW continued its engineering analysis and review of field data. In January 2018, BMW inspected a Model Year 2012 BMW 750i regarding a similar field incident.

After a review of field data and engineering analyses, the results showed that while several design changes were made to the electric auxiliary water pump, including an enlarged circuit path space, a gap enlargement between the hall sensor holder and printed circuit board, and measures at tin plating and soldering process, the electric auxiliary water pumps still experienced some electro-migration. BMW concluded that the electric auxiliary water pumps provided by Pierburg with the improved design were exhibiting similar failures to the electric auxiliary water pumps that were previously recalled.

Production records were reviewed to determine the number and production range of potentially affected vehicles.

On April 11, 2018, BMW decided to conduct a voluntary recall.

BMW has not received any reports, nor is BMW otherwise aware, of any injuries or fatalities related to this issue.

Description of Remedy :

Description of Remedy Program : Owners will be notified by First Class mail and instructed to take their vehicle to an authorized BMW center / MINI dealer to have the electric auxiliary water pump replaced for free. Owners who have replaced the electric auxiliary water pump at their own expense prior to the recall notification may be eligible for reimbursement according to BMW Group's reimbursement plan in accordance with 49 CFR 573.13 and 49 CFR 577.11.

How Remedy Component Differs from Recalled Component : Recall component: Electric auxiliary water pump.

| Part Number | Motor | Model |
|-------------|--------|---|
| 7 619 360 | N14/18 | MINI |
| 7 604 525 | S63 | X5M, X6M |
| 7 604 528 | N63 | X5, X6, 5 Series, 5 Series GT, 6 Series, 7 Series |
| 7 595 628 | N63 | X6 Hybrid |
| 7 624 087 | N63 | 7 Series Hybrid |
| 7 624 086 | N74 | 7 Series; Rolls-Royce Ghost |
| 11 501 601 | Alpina | 7 Series (Alpina B7) |

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

Recall Schedule :

Description of Recall Schedule : Dealer notification is planned to begin and end on April 18, 2018.
Owner notification is planned to begin and end on June 11, 2018.

Planned Dealer Notification Date : APR 18, 2018 - APR 18, 2018

Planned Owner Notification Date : JUN 11, 2018 - JUN 11, 2018

* NR - Not Reported