

Part 573 Safety Recall Report

21V-527

Manufacturer Name : Mercedes-Benz USA, LLC**Submission Date :** SEP 03, 2021**NHTSA Recall No. :** 21V-527**Manufacturer Recall No. :** 2021070032/33**Manufacturer Information :****Population :**

Manufacturer Name : Mercedes-Benz USA, LLC

Number of potentially involved : 542

Address : 13470 International Parkway

Estimated percentage with defect : 7 %

Jacksonville FL 32218

Company phone : 1-877-496-3691

Vehicle Information :

Vehicle 1 : 2021-2021 Mercedes-Benz CLS 450

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Mercedes-Benz 2021 CLS 450 1 Vehicle

The recall population was determined through production records. Vehicles outside of the recall population have the electrical connector of the side crash sensors manufactured according to current production specifications.

Production Dates : AUG 03, 2020 - NOV 11, 2020

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2021-2021 Mercedes-Benz AMG CLS 53

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Mercedes-Benz 2021 AMG CLS 53 1 Vehicle

The recall population was determined through production records. Vehicles outside of the recall population have the electrical connector of the side crash sensors manufactured according to current production specifications.

Production Dates : AUG 03, 2020 - NOV 11, 2020

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 3 : 2021-2021 Mercedes-Benz E 350

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Mercedes-Benz 2021 E 350 26 Vehicle

The recall population was determined through production records. Vehicles outside of the recall population have the electrical connector of the side crash sensors manufactured according to current production specifications.

Production Dates : AUG 03, 2020 - NOV 11, 2020

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 4 : 2021-2021 Mercedes-Benz E 450

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Mercedes-Benz 2021 E 450 26 Vehicle

The recall population was determined through production records. Vehicles outside of the recall population have the electrical connector of the side crash sensors manufactured according to current production specifications.

Production Dates : AUG 03, 2020 - NOV 11, 2020

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 5 : 2021-2021 Mercedes-Benz AMG E 53

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : Mercedes-Benz 2021 AMG E 53 10 Vehicle

The recall population was determined through production records. Vehicles outside of the recall population have the electrical connector of the side crash sensors manufactured according to current production specifications.

Production Dates : AUG 03, 2020 - NOV 11, 2020

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 6 : 2020-2020 Mercedes-Benz G 550

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Mercedes-Benz 2020 G 550 25 Vehicle

The recall population was determined through production records. Vehicles outside of the recall population have the electrical connector of the side crash sensors manufactured according to current production specifications.

Production Dates : AUG 03, 2020 - NOV 11, 2020

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 7 : 2020-2020 Mercedes-Benz S 560

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Mercedes-Benz 2020 S 560 7 Vehicle

The recall population was determined through production records. Vehicles outside of the recall population have the electrical connector of the side crash sensors manufactured according to current production specifications.

Production Dates : AUG 03, 2020 - NOV 11, 2020

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 8 : 2020-2021 Mercedes-Benz AMG G 63

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Mercedes-Benz 2020-2021 AMG G 63 95 Vehicle

The recall population was determined through production records. Vehicles outside of the recall population have the electrical connector of the side crash sensors manufactured according to current production specifications.

Production Dates : AUG 03, 2020 - NOV 11, 2020

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 9 : 2020-2020 Mercedes-Benz AMG GLC 63

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Mercedes-Benz 2020 AMG GLC 63 5 Vehicle

The recall population was determined through production records. Vehicles outside of the recall population have the electrical connector of the side crash sensors manufactured according to current production specifications.

Production Dates : AUG 03, 2020 - NOV 11, 2020

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 10 : 2021-2021 Mercedes-Benz AMG GT43

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Mercedes-Benz 2021 AMG GT43 9 Vehicle

The recall population was determined through production records. Vehicles outside of the recall population have the electrical connector of the side crash sensors manufactured according to current production specifications.

Production Dates : AUG 03, 2020 - NOV 11, 2020

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 11 : 2021-2021 Mercedes-Benz AMG GT 53

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Mercedes-Benz 2021 AMG GT 53 13 Vehicle

The recall population was determined through production records. Vehicles outside of the recall population have the electrical connector of the side crash sensors manufactured according to current production specifications.

Production Dates : AUG 03, 2020 - NOV 11, 2020

VIN Range 1 : Begin : NR End : NR

Not sequential

Vehicle 12 : 2020-2020 Mercedes-Benz S 450

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Mercedes-Benz 2020 S 450 7 Vehicle

The recall population was determined through production records. Vehicles outside of the recall population have the electrical connector of the side crash sensors manufactured according to current production specifications.

Production Dates : AUG 03, 2020 - NOV 11, 2020

VIN Range 1 : Begin : NR End : NR

Not sequential

Vehicle 13 : 2020-2021 Mercedes-Benz GLC 300

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Mercedes-Benz 2020-2021 GLC 300 317 Vehicle

The recall population was determined through production records. Vehicles outside of the recall population have the electrical connector of the side crash sensors manufactured according to current production specifications.

Production Dates : AUG 03, 2020 - NOV 11, 2020

VIN Range 1 : Begin : NR End : NR

Not sequential

Description of Defect :

Description of the Defect : Mercedes-Benz AG ("MBAG"), the manufacturer of Mercedes-Benz vehicles, has determined that on certain Model Year ("MY") 2020-2021 E-Class (213 platform), S-Class (222 platform), GLC (253 platform), CLS (257 platform), AMG GT 4-doors coupe (290 platform) and G-Class (463 platform) vehicles, the locking mechanism for the electrical connector on the side crash sensors might not meet current production specifications.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : In this case, the side crash sensor connector might loosen over the vehicle's lifetime. In the event of a crash with a side impact, this loosening may lead to a delayed activation of the restraint systems, potentially resulting in a reduced restraint performance, which could increase the risk of injury.

Description of the Cause : Due to a production deviation at a supplier, the plug connection on a certain batch of side impact crash sensors might not meet current production specifications.

Identification of Any Warning that can Occur : When the issue occurs, a specific warning message would be displayed and the SRS warning lamp illuminated in the instrument cluster.

Involved Components :

Component Name 1 : PRESSURE SENSOR

Component Description : PRESSURE SENSOR

Component Part Number : A2139051400

Supplier Identification :

Component Manufacturer

Name : Continental Automotive GmbH

Address : Siemensstrasse 12
Regensburg Foreign States 93055

Country : Germany

Chronology :

In September 2020, MBAG received an initial report from the supplier of the side impact crash sensors describing the possibility that in a certain batch of these sensors, the electrical connector housing might not meet specifications.

Subsequently, potentially affected vehicles were determined based on the production date and serial numbers of the potentially affected sensors as reported by the supplier. In October and November 2020 plant rework campaigns were started to rework potentially affected vehicles. In parallel, analysis of the vehicles' locations showed that some vehicles with sensors from the batch identified by the supplier had already left the plant. In December 2020, initial analyses regarding the potential effects of installing an affected sensor were conducted.

Between January and March 2021, further analyses of the potential consequences were conducted based on

shaker and shock tests. During these tests, affected sensors were exposed to vibrations and loads which are expected to occur over the vehicle's lifetime. During these tests, the electrical connectors did not loosen despite the locking mechanism not meeting specifications.

From April 2021, the results of these tests were evaluated and the initial test results did not suggest a deterioration in the performance of the affected sensors. In order to confirm those initial findings, additional analyses of the sensor, connector and wiring harness installation in different affected door variants were conducted in order to determine if there is a possibility of the sensor loosening on a built-up vehicle.

Additionally, pull-out forces of the connectors on affected housings were measured.

Please see Chronology Supplement.

Description of Remedy :

Description of Remedy Program : An authorized Mercedes-Benz dealer will check the side impact crash sensors in the doors on the affected vehicles and replace them, if necessary.
Pursuant to 49 C.F.R. § 577.11(e), MBUSA does not plan to provide notice about pre-notice reimbursement to owners since none of the involved vehicles would have been previously subject to the condition described and all remain covered under the new vehicle warranty.

How Remedy Component Differs from Recalled Component : Side impact crash sensors with connectors according to specifications.
Remedy Part No: PRESSURE SENSOR
A2139051400

Identify How/When Recall Condition was Corrected in Production : A change in the production procedure of our supplier ensures that this issue can no longer occur from November 12, 2020 onwards.

Recall Schedule :

Description of Recall Schedule : Dealers will be notified of the pending voluntary recall campaign on July 16, 2021. Owners notified of the voluntary recall campaign on September 3, 2021.

A copy of all communications will be provided when available.

Planned Dealer Notification Date : JUL 16, 2021 - NR

Planned Owner Notification Date : SEP 03, 2021 - NR

* NR - Not Reported