

Part 573 Safety Recall Report

25V-116

Manufacturer Name : Mercedes-Benz USA, LLC**Submission Date :** APR 11, 2025**NHTSA Recall No. :** 25V-116**Manufacturer Recall No. :** 2025030007**Manufacturer Information :**

Manufacturer Name : Mercedes-Benz USA, LLC

Address : 13470 International Parkway
Jacksonville FL 32218

Company phone : 1-877-496-3691

Population :

Number of potentially involved : 20,339

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2021-2022 Mercedes-Maybach S 580 4MATIC

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Mercedes-Maybach MY21-22 S 580 4MATIC 397 vehicles. The recall condition was identified based on empirical data analysis, which indicated an affected production period from start of vehicle production through March 23, 2022. Vehicles outside the recall population are equipped with brake hoses which meet durability specifications.

Production Dates : JUN 20, 2020 - MAR 23, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2022-2022 Mercedes-Maybach S 680 4MATIC

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Mercedes-Maybach MY22 S 680 4MATIC 20 vehicles. The recall condition was identified based on empirical data analysis, which indicated an affected production period from start of vehicle production through March 23, 2022. Vehicles outside the recall population are equipped with brake hoses which meet durability specifications.

Production Dates : JUN 20, 2020 - MAR 23, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 3 : 2021-2022 Mercedes-Benz S 500

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Mercedes-Benz MY21-22 S 500 4,124 vehicles. The recall condition was identified based on empirical data analysis, which indicated an affected production period from start of vehicle production through March 23, 2022. Vehicles outside the recall population are equipped with brake hoses which meet durability specifications.

Production Dates : JUN 20, 2020 - MAR 23, 2022

VIN Range 1 : Begin : NR End : NR

Not sequential

Vehicle 4 : 2021-2023 Mercedes-Benz S 580 4MATIC

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Mercedes-Benz MY21-23 S 580 4MATIC 15,795 vehicles. The recall condition was identified based on empirical data analysis, which indicated an affected production period from start of vehicle production through March 23, 2022. Vehicles outside the recall population are equipped with brake hoses which meet durability specifications.

Production Dates : JUN 20, 2020 - MAR 23, 2022

VIN Range 1 : Begin : NR End : NR

Not sequential

Vehicle 5 : 2023-2023 Mercedes-Benz S 580e 4MATIC

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : Mercedes-Benz MY23 S 580e 4MATIC 3 vehicles. The recall condition was identified based on empirical data analysis, which indicated an affected production period from start of vehicle production through March 23, 2022. Vehicles outside the recall population are equipped with brake hoses which meet durability specifications.

Production Dates : JUN 20, 2020 - MAR 23, 2022

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") 2021-2023 S-Class (223 platform) vehicles, the brake hoses on the front axle might leak over time with use in hot and humid environments.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : In this case, brake fluid might leak. This might lead to a reduced braking

Description of the Safety Risk : performance in one of the two brake circuits, which could increase the risk of a crash.

Description of the Cause : Due to climatic factors and the resulting material behavior, affected brake hoses might not meet durability specifications.

Identification of Any Warning that can Occur : Before the issue occurs, the driver will not receive a warning due to the nature of the failure mechanism.

When the issue occurs, the driver might notice a red brake fluid warning message in the instrument cluster.

Involved Components :

Component Name 1 : BRAKE HOSE

Component Description : BRAKE HOSE

Component Part Number : A2234201800

Supplier Identification :

Component Manufacturer

Name : Continental Automotive Technologies GmbH

Address : Guerickestr. 7

Frankfurt am Main Foreign States D-60488

Country : Germany

Chronology :

By the end of 2023, MBAG became aware of individual reports regarding a potential issue with a front brake hose. Initial parts retrieved from the field were sent to the supplier for quality analysis. In parallel, MBAG initiated preliminary testing on front axle brake hoses using a set of test vehicles to reassess their durability. At this time external influences were suspected to cause the damage.

In February 2024, additional parts retrieved following further field complaints were sent to the supplier to examine for potential material defects. Additionally, the supplier's production process was analyzed for possible deviations. Endurance testing was also conducted on the supplier's test bench, including static pressure and robotic simulation testing. At this time, two individual warranty reports from the US related to this issue were identified. Discussions with the supplier continued until June 2024 to further evaluate the existence of any potential deviations. Although no deviations were identified, in August 2024 MBAG conducted further extensive testing on the brake hoses to reassess their durability. These tests demonstrated that the

hoses could withstand up to ten times the stresses encountered during normal driving conditions. During September and October 2024, MBAG, in collaboration with its supplier, extended the testing to include climatic influences. This was done by incorporating pre-aging of the brake hoses at different temperature levels into the testing. However, no damage at the standard pressure level in vehicle applications could be replicated.

In November 2024, the vehicle production process in Germany was thoroughly examined for any deviations that might have affected the integrity of the front brake hoses.

See chronology supplement.

Description of Remedy :

Description of Remedy Program : As a precautionary measure, an authorized Mercedes-Benz dealer will replace the brake hoses on the front axle of the affected vehicles.

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 : Vehicles outside the recall population are equipped with brake hoses that meet durability specifications.

Remedy Part No: BRAKE HOSE A2234203101

Identify How/When Recall Condition was Corrected in Production : The recall condition was identified based on empirical data analysis, which indicated an affected production period from start of vehicle production through March 23, 2022.

Recall Schedule :

Description of Recall Schedule : Dealers will be notified of the pending voluntary recall campaign on March 3, 2025. Owners will be notified of the voluntary recall campaign on April 25, 2025. A copy of all communications will be provided when available.

Planned Dealer Notification Date : MAR 03, 2025 - NR

Planned Owner Notification Date : APR 25, 2025 - NR

* NR - Not Reported