



U.S. Department
of Transportation

National Highway
Traffic Safety
Administration

Part 573 Safety Recall Report

25V390

Manufacturer Name: General Motors, LLC

Submission Date: Jun 23, 2025

NHTSA Recall No.: 25V390

Manufacturer Recall No.: N242482680

Manufacturer Information

Population

Manufacturer Name: General Motors, LLC

Address: 29427 Louis Chevrolet
Road
MAIL CODE 480-210-2V
WARREN MI, 48093

Total number of potentially involved: 62,468

Estimated percentage with defect: 1%

Vehicle Information

Vehicle 1: 2024-2024 CHEVROLET SILVERADO 6500HD

Product Category:

Product Type:

Fuel / Propulsion:

Production Dates: Oct 04, 2023 - Sep 09, 2024

Number of potentially involved: 2,191

Descriptive Information:

Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Vehicle 2: 2024-2024 CHEVROLET SILVERADO 5500HD

Product Category:

Product Type:

Fuel / Propulsion:

Production Dates: Oct 04, 2023 - Sep 09, 2024

Number of potentially involved: 6,632

Descriptive Information:

Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

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not affected by this recall.

Vehicle 3: 2024-2024 CHEVROLET SLIVERADO 4500HD

Product Category:

Product Type:

Fuel / Propulsion:

Production Dates: Feb 02, 2024 - Sep 09, 2024

Number of potentially involved: 514

Descriptive Information:

Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Vehicle 4: 2023-2023 CHEVROLET SILVERADO 5500HD

Product Category: Light Vehicles

Product Type:

Fuel / Propulsion:

Production Dates: Jan 20, 2023 - Mar 19, 2024

Number of potentially involved: 10,097

Descriptive Information:

Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Vehicle 5: 2023-2023 CHEVROLET SILVERADO 6500HD

Product Category: Light Vehicles

Product Type:

Fuel / Propulsion:

Production Dates: Jan 12, 2023 - Feb 24, 2024

Number of potentially involved: 5,102

Descriptive Information:

Manufacturing records were used to identify vehicles built within the suspect production window.

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Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Vehicle 6: 2023-2023 CHEVROLET SILVERADO 4500HD

Product Category: Light Vehicles

Product Type:

Fuel / Propulsion:

Production Dates: Jan 25, 2023 - Jan 30, 2024

Number of potentially involved: 415

Descriptive Information:

Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Vehicle 7: 2022-2022 CHEVROLET SILVERADO 6500HD

Product Category: Light Vehicles

Product Type:

Fuel / Propulsion:

Production Dates: Jan 22, 2022 - Mar 08, 2023

Number of potentially involved: 3,635

Descriptive Information:

Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Vehicle 8: 2022-2022 CHEVROLET SILVERADO 5500HD

Product Category: Light Vehicles

Product Type:

Fuel / Propulsion:

Production Dates: Jan 22, 2022 - May 08, 2023

Number of potentially involved: 7,339

Descriptive Information:

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Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Vehicle 9: 2022-2022 CHEVROLET SILVERADO 4500HD

Product Category: Light Vehicles

Product Type:

Fuel / Propulsion:

Production Dates: Feb 03, 2022 - Mar 01, 2023

Number of potentially involved: 483

Descriptive Information:

Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Vehicle 10: 2021-2021 CHEVROLET SILVERADO 6500HD

Product Category: Light Vehicles

Product Type:

Fuel / Propulsion:

Production Dates: Nov 30, 2020 - Mar 25, 2022

Number of potentially involved: 2,135

Descriptive Information:

Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Vehicle 11: 2021-2021 CHEVROLET SILVERADO 5500HD

Product Category: Light Vehicles

Product Type:

Fuel / Propulsion:

Production Dates: Oct 09, 2020 - Mar 25, 2022

Number of potentially involved: 6,424

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Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Vehicle 12: 2021-2021 CHEVROLET SILVERADO 4500HD**Product Category:** Light Vehicles**Product Type:****Fuel / Propulsion:****Production Dates:** Dec 01, 2020 - Mar 07, 2022**Number of potentially involved:** 360**Descriptive Information:**

Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Vehicle 13: 2020-2020 CHEVROLET SILVERADO 6500HD**Product Category:** Light Vehicles**Product Type:****Fuel / Propulsion:****Production Dates:** Oct 04, 2019 - Jan 08, 2021**Number of potentially involved:** 1,804**Descriptive Information:**

Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Vehicle 14: 2020-2020 CHEVROLET SILVERADO 5500HD**Product Category:** Light Vehicles**Product Type:****Fuel / Propulsion:****Production Dates:** Nov 19, 2019 - Jan 19, 2021

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Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Vehicle 15: 2020-2020 CHEVROLET SILVERADO 4500HD**Product Category:** Light Vehicles**Product Type:****Fuel / Propulsion:****Production Dates:** Nov 22, 2019 - Dec 28, 2020**Number of potentially involved:** 313**Descriptive Information:**

Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Vehicle 16: 2019-2019 CHEVROLET SILVERADO 6500HD**Product Category:** Light Vehicles**Product Type:****Fuel / Propulsion:****Production Dates:** May 30, 2018 - Nov 26, 2019**Number of potentially involved:** 2,248**Descriptive Information:**

Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Vehicle 17: 2019-2019 CHEVROLET SILVERADO 5500HD**Product Category:** Light Vehicles**Product Type:****Fuel / Propulsion:**

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Production Dates: May 23, 2018 - Jan 12, 2020

Number of potentially involved: 6,948

Descriptive Information:

Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Vehicle 18: 2019-2019 CHEVROLET SILVERADO 4500HD

Product Category: Light Vehicles

Product Type:

Fuel / Propulsion:

Production Dates: Dec 21, 2018 - Nov 21, 2019

Number of potentially involved: 389

Descriptive Information:

Manufacturing records were used to identify vehicles built within the suspect production window.

Vehicles prior to 2019 model year use a different design and are not affected by this recall. 2024 model year vehicles that were produced with a brake switch wire harness that includes a silicone sealant are not affected by this recall.

Defect / Noncompliance Description

Description of the defect or noncompliance:

General Motors has decided that a defect which relates to motor vehicle safety may exist in certain 2019 – 2024 model year Chevrolet Silverado Medium Duty 4500HD/5500HD/6500HD vehicles. These vehicles may have a brake pressure sensor assembly that may allow brake fluid to leak beyond the diaphragm seal into the brake pressure switch. The brake fluid may seep into the sensor assembly's electrical components and short the brake pressure switch and the associated fuse.

FMVSS1:

FMVSS2:

Description of the safety risk, including crash, fire, death, injury:

If brake fluid shorts the brake pressure switch and the associated fuse, the circuit can generate excessive heat that could result in a fire, increasing the risk of injury. An underhood fire may occur when the vehicle is off and possibly unattended.

Description of the cause:

An unauthorized chemical was used by the supplier in the manufacture of a rubber diaphragm in the

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brake pressure sensor assembly, which can cause the diaphragm to degrade over time.

Identification of any warning that can occur:

Until the recall remedy is performed, owners are advised to park their vehicles outdoors. This condition may declare with a “service brake system” malfunction indicator lamp.

Component Manufacturer

Tier of Supplier: Tier 1

Supplier Type:

Name: Kodiak Controls Inc.

Address: 734 Oakridge Dr.
Romeoville IL, 60446

Country: United States

Involved Components

Component Name 1: SWITCH, BRK PRESS WRNG (W/O TEE CONNECTOR)

Component Description: Brake Pressure Sensor Assembly

Component Part Number: 19407495

Chronology

On April 13, 2023, GM issued NHTSA Recall 23V-266 to address a condition in which zinc sealant in the subject vehicles' brake pressure sensors could fragment and interfere with a diaphragm intended to prevent brake fluid from leaking into the sensor wiring harness. A short circuit caused by leaking fluid could activate the brake assist pump when the brake is not applied and, in rare conditions, generate excessive heat that could result in an underhood fire.

On October 11, 2024, a GM brand quality manager submitted an issue to GM's Speak Up For Safety (SUFS) program based on a field report of a 2023 Silverado Medium Duty truck that was exhibiting unintended brake pump activation and was not part of the 23V-266 recall population. That vehicle had been built with an improved brake pressure sensor design intended to eliminate the zinc-sealant fragmentation issue. GM opened a product investigation on November 24, 2024 after analysis found brake fluid in the sensor wiring harness.

On December 18, 2024, GM received another potentially related field report involving a 2021 Silverado Medium Duty truck that had already been repaired under recall 23V-266. GM's examination of the sensor in January 2025 identified evidence of brake fluid in the wiring harness. On January 16, 2025, GM completed testing of three warranty-returned parts from other vehicles that were not included in the 23V266 population, each confirming brake fluid present in the harness.

On March 3, 2025, GM and International Motors, the manufacturer of the subject vehicles, contracted with Akron Rubber Development Lab (ARDL) to test the material properties of the diaphragm seal.

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Testing completed on April 24, 2025 determined that the diaphragm was degrading due to the supplier's use of an unauthorized chemical in the rubber that reacted with the brake fluid.

On April 30, 2025, GM's investigator retrieved updated field data, identifying one alleged fire among 160 potentially related reports. GM inspected the vehicle on May 28 and concluded that the incident was likely related to the subject condition. GM received notice of the field incidents between November 14, 2024 and April 30, 2025. GM is not aware of any accidents or injuries associated with this condition. On June 5, 2025, GM's Safety Field Action Decision Authority (SFADA) decided to conduct a safety recall.

Related NHTSA Recall Number: This recall is related to NHTSA recall 23V266 It is based on the discovery of another root cause that can create the same condition that was the subject of the earlier recall

Description of Remedy

Remedy Type: Replace

Consumer Advisories: ☐ Do Not Drive ☒ Park Outside

Description of remedy program:

Dealers will replace the brake pressure switch wire harness.

How remedy component differs from recalled component:

The replacement brake pressure switch wire harness contains a silicone sealant that prevents brake fluid from flowing through the harness.

Identify how/when recall condition was corrected in production:

The brake pressure switch wire harness was updated in production on September 9, 2024.

Reimbursement Plan

Manufacturer used general reimbursement plan on file.

Recall Schedule

Description of recall schedule:

Dealers will be notified on June 12, 2025. Owner interim notification is estimated to begin on July 28, 2025. GM will provide an estimated owner notification for an available remedy once that can be determined.

Planned Dealer Notification Date:

☐ No Dealers

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