

Part 573 Safety Recall Report

20V-116

Manufacturer Name : General Motors LLC**Submission Date :** FEB 27, 2020**NHTSA Recall No. :** 20V-116**Manufacturer Recall No. :** N202294420**Manufacturer Information :****Population :**

Manufacturer Name : General Motors LLC

Number of potentially involved : 20,352

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

Estimated percentage with defect : 20 %

Company phone : 586-596-1733

Vehicle Information :

Vehicle 1 : 2020-2020 Chevrolet Silverado 1500

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Supplier shipment records and GM manufacturing records were used to identify the affected vehicles.

There are 13,841 Chevrolet Silverado 1500 vehicles affected by this recall.

Production Dates : JAN 09, 2020 - JAN 25, 2020

VIN Range 1 : Begin : NR End : NR

 Not sequential

Vehicle 2 : 2020-2020 GMC Sierra 1500

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Supplier shipment records and GM manufacturing records were used to identify the affected vehicles.

There are 6,511 GMC Sierra 1500 vehicles affected by this recall.

Production Dates : JAN 09, 2020 - JAN 25, 2020

VIN Range 1 : Begin : NR End : NR

 Not sequential

Description of Defect :

Description of the Defect : General Motors has decided that a defect which relates to motor vehicle safety exists in certain 2020 model-year Chevrolet Silverado 1500 and GMC Sierra 1500 vehicles. Certain bolts used to attach the front and/or rear brake calipers in these vehicles may not have been heat treated by the supplier. Bolts that are not heat treated may not meet GM specifications for strength or hardness and could break under load.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If a non-heat-treated bolt breaks, the affected caliper may fail, potentially causing reduced brake performance or interfering with wheel rotation, increasing the risk of a crash.

Description of the Cause : The supplier of subject bolts made a process change which inadvertently did not include the heat treatment process required by GM specifications.

Identification of Any Warning that can Occur : NR

Supplier Identification :**Component Manufacturer**

Name : KAMAX, Inc.

Address : 1805 Bowers Rd 48446
Lapeer 48446

Country : NR

Chronology :

On January 17, 2020, GM's brake caliper supplier was unable to achieve the specified fastening torque for certain caliper attachment bolts, indicating that the bolts may not have met GM's strength or hardness specifications. The issue was reported to GM's Speak Up for Safety (SUFS) program and GM opened an investigation on January 24, 2020.

GM's investigator reviewed the bolt supplier's manufacturing process and determined that the supplier made an unauthorized process change on January 2, 2020. Bolts produced after that time may not have been heat treated, as required by GM specifications. The process was corrected on January 16, 2020, and all bolts produced after that time were properly heat treated.

GM used its assembly records and the suppliers' production and shipping records to identify vehicles that may have had brake calipers attached using the suspect bolts. GM also confirmed based on its records that the affected bolts were not used in any vehicle programs other than the subject vehicles.

GM directed the bolt supplier to test heat-treated and non-heat-treated bolts for strength and hardness. This testing, which was reviewed with GM on February 12, 2020, showed that a non-heat-treated bolt may not meet GM's specifications. A review of available field data completed on February 14, 2020 found no related field incidents. On February 20, 2020, GM's Safety and Field Action Decision Authority decided to conduct a safety recall.

Description of Remedy :

Description of Remedy Program : Dealers will replace the brake caliper bolts. Pursuant to 49 C.F.R. § 573.13(d)(1), all covered vehicles are under warranty, so reimbursement is not offered.

How Remedy Component Differs from Recalled Component : Replacement bolts are produced outside of the supplier's suspect window and have been heat treated to meet GM's specifications.
Recalled Component Name: Bolt - Caliper
Recalled Component Description: Brake Caliper Bolt
Recalled Component Part Number: 11546469
Recalled Component Country of Origin: U.S.

Identify How/When Recall Condition was Corrected in Production : Containment efforts were initiated on January 21, 2020 at GM's Fort Wayne assembly plant and on January 25, 2020 at GM's Silao assembly plant.

Recall Schedule :

Description of Recall Schedule : Dealers will be notified on February 27, 2020. Customer notification is estimated to begin on April 13, 2020.
Planned Dealer Notification Date : FEB 27, 2020 - FEB 27, 2020
Planned Owner Notification Date : APR 13, 2020 - APR 13, 2020

* NR - Not Reported