

Part 573 Safety Recall Report

19V-888

Manufacturer Name : General Motors LLC**Submission Date :** DEC 12, 2019**NHTSA Recall No. :** 19V-888**Manufacturer Recall No. :** N192273510**Manufacturer Information :**

Manufacturer Name : General Motors LLC

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

Company phone : 586-596-1733

Population :

Number of potentially involved : 350,371

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2019-2020 Chevrolet Silverado 1500

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Manufacturing records were used to identify the affected vehicles. Affected vehicles are those built prior to implementation of secondary black-light inspection in production. Secondary inspection was implemented on November 14, 2019 at GM's Fort Wayne plant and on November 22, 2019 at GM's Silao plant. Vehicles that could be verified through manufacturing assembly records to have the correct torque curve for the alternator B+ attachment are not included in this recall. In addition, not all 2019 model-year vehicles are impacted; 2019 models from the previous generation truck platform (i.e., those not marketed as "All-New") are not included in this recall. There are 242,655 Chevrolet Silverado 1500 vehicles involved in this recall.

Production Dates : JUL 11, 2018 - NOV 22, 2019

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2019-2020 GMC Sierra 1500

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Manufacturing records were used to identify the affected vehicles. Affected vehicles are those built prior to implementation of secondary black light inspection in production. Secondary inspection was implemented on November 14, 2019 at GM's Fort Wayne plant and on November 22, 2019 at GM's Silao plant. Vehicles that could be verified through manufacturing assembly records to have the correct torque signature for the alternator B+ attachment are not included in this recall. In addition, not all 2019 model-year vehicles are impacted; 2019 models from the previous generation truck platform (i.e., those marketed as "Limited") are not included in this recall.

There are 107,716 GMC Sierra 1500 vehicles involved in this recall.

Production Dates : JUL 11, 2018 - NOV 22, 2019

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 2019 – 2020 model-year Chevrolet Silverado 1500 and GMC Sierra 1500 vehicles. The B+ battery cable rings in these vehicles may have been contaminated with glue residue at the supplier. During normal vehicle operation, the glue may soften and cause the nut that attaches the B+ battery cable to the alternator to loosen over time, which could lead to an intermittent electrical connection or arcing.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : An intermittent electrical connection between the B+ battery cable and the alternator could cause the vehicle to stall. The intermittent connection could also lead to arcing, which could generate sufficient heat to damage surrounding material and increase the risk of a fire.

Description of the Cause : During the supplier's assembly process, excess glue may not have been completely removed from the B+ battery cable rings, resulting in glue contamination that could affect the joint connection between the cable ring and the alternator.

Identification of Any Warning that can Occur : The driver may receive a "Service Battery" or "Battery Saver" warning.

Supplier Identification :

Component Manufacturer

Name : Tianhai Electric North America (TENA)

Address : 70 E. Silverdome Industrial Park
Pontiac MICHIGAN 48342

Country : United States

Chronology :

On August 20, 2019, GM's Canadian Brand Quality Manager submitted a report of a stall on a 2019 GMC Sierra to GM's Speak Up For Safety (SUFS) program. Analysis of that vehicle showed that it was missing the nut that secures the B+ cable to the alternator stud. GM opened an investigation on September 10, 2019. An initial review of warranty claims, which was completed on September 26, 2019, revealed additional relevant field cases and at least one additional stall case. Between late September and mid-November, a team of GM experts

analyzed returned parts to determine what was causing the nuts to lose torque over time because the torque data from the plant indicated the nuts met the torque requirement. However, closer analysis of the torque curves and a material analysis of the ring terminals showed that glue contamination on the terminal was heating during vehicle operation and causing a soft joint. On November 13, 2019, to help identify vehicles that may have had contaminated terminals, GM conducted a torque-curve study that compared nuts without contamination to those with contamination. Based on that comparison, GM was able to establish a torque-curve signature for potentially contaminated components, and GM used those torque-curve signatures to identify the suspect population from manufacturing records. Field data analysis was completed on November 25, 2019 and identified one fire claim that is believed to be attributable to this condition. The investigation was reviewed by GM's Open Investigation Review board on December 2, 2019. On December 5, 2019, GM's Safety and Field Action Decision Authority decided to conduct a safety recall.

Description of Remedy :

Description of Remedy Program : Dealers will inspect the vehicle with a black light for the presence of glue or other contamination at the B+ cable attachment to the alternator. If necessary, dealers will clean the connection and reattach the B+ cable connection. If arcing has damaged the cable, nut, or alternator, the dealer will replace the damaged components.
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 : Reattached or replaced components will be free from contamination or damage at the alternator B+ cable attachment.
Recalled Component Name: CABLE ASM-STRTR SOL
Recalled Component Description: Battery Cable
Recalled Component Part Number: 84522141
Recalled Component Country of Origin: Mexico

Identify How/When Recall Condition was Corrected in Production : A secondary black-light inspection was implemented in production. Secondary inspection was implemented on November 14, 2019 at GM's Fort Wayne plant and on November 22, 2019 at GM's Silao plant.

Recall Schedule :

Description of Recall Schedule : Dealers will be notified on December 12, 2019. GM plans to begin notifying owners on January 27, 2020.
Planned Dealer Notification Date : DEC 12, 2019 - DEC 12, 2019
Planned Owner Notification Date : JAN 27, 2020 - JAN 27, 2020

* NR - Not Reported