

Part 573 Safety Recall Report

20V-603

Manufacturer Name : General Motors LLC**Submission Date :** OCT 01, 2020**NHTSA Recall No. :** 20V-603**Manufacturer Recall No. :** N202300860**Manufacturer Information :****Population :**

Manufacturer Name : General Motors LLC

Number of potentially involved : 14,620

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

Estimated percentage with defect : 2 %

Company phone : 586-596-1733

Vehicle Information :

Vehicle 1 : 2018-2018 Cadillac Escalade

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Manufacturing records were used to identify vehicles that received a 6.2L V8 (RPO L86) engine produced from GM's Spring Hill engine assembly plant prior to 10/01/2017. Vehicles that received an engine produced after this breakpoint are not included in this recall.

2,640 Cadillac Escalade vehicles are included in this recall.

Production Dates : MAY 22, 2017 - SEP 30, 2017

VIN Range 1 : Begin : NR End : NR

 Not sequential

Vehicle 2 : 2018-2018 Chevrolet Silverado 1500

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Manufacturing records were used to identify vehicles that received a 5.3L V8 (RPO L83) or 6.2L V8 (RPO L86) engine produced from GM's Spring Hill engine assembly plant prior to 10/01/2017. Vehicles that received an engine produced after this breakpoint are not included in this recall. Models that have an engine other than L83 or L86 are not affected by this recall.

3,607 Chevrolet Silverado vehicles are included in this recall.

Production Dates : APR 25, 2017 - SEP 30, 2017

VIN Range 1 : Begin : NR End : NR

 Not sequential

Vehicle 3 : 2018-2018 Chevrolet Tahoe

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Manufacturing records were used to identify vehicles that received a 5.3L V8 (RPO L83) or 6.2L V8 (RPO L86) engine produced from GM's Spring Hill engine assembly plant prior to 10/01/2017. Vehicles that received an engine produced after this breakpoint are not included in this recall.

1 Chevrolet Tahoe vehicle is included in this recall.

Production Dates : AUG 22, 2017 - AUG 22, 2017

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 4 : 2018-2018 GMC Sierra 1500

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Manufacturing records were used to identify vehicles that received a 5.3L V8 (RPO L83) or 6.2L V8 (RPO L86) engine produced from GM's Spring Hill engine assembly plant prior to 10/01/2017. Vehicles that received an engine produced after this breakpoint are not included in this recall. Models that have an engine other than L83 or L86 are not affected by this recall.

5,380 GMC Sierra vehicles are included in this recall.

Production Dates : APR 25, 2017 - SEP 30, 2017

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 5 : 2018-2018 GMC Yukon

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Manufacturing records were used to identify vehicles that received a 5.3L V8 (RPO L83) or 6.2L V8 (RPO L86) engine produced from GM's Spring Hill engine assembly plant prior to 10/01/2017. Vehicles that received an engine produced after this breakpoint are not included in this recall.

2,992 GMC Yukon vehicles are included in this recall.

Production Dates : MAY 22, 2017 - SEP 30, 2017

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 2018 model year Cadillac Escalade, Chevrolet Silverado 1500, Chevrolet Tahoe, GMC Sierra 1500, and GMC Yukon vehicles. In some circumstances, these vehicles may have a condition in which the engine-mounted mechanical vacuum pump output may decrease over time, decreasing the amount of vacuum/power brake assist.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If the vacuum level drops, customers may experience increased brake pedal effort, hard brake pedal, and/or potentially increased stopping distance. The Driver's Information Center (DIC) "Service brake assist" alert will activate 2-5 minutes after the vacuum level drops, and a Diagnostic Trouble Code (DTC) will also be set. The condition is more prevalent at low speed when softly applying the brakes. At all times, the brakes remain functional and exceed the requirements of S7.11 of Federal Motor Vehicle Safety Standard (FMVSS) No. 135, "Light Vehicle Brake Systems."

Description of the Cause : The prior safety recall identified a breakpoint in production that was incorrect. The vehicles subject to this recall were manufactured after the prior breakpoint, but used brake vacuum pumps of the prior design. In these vehicles, the vacuum assist pump is lubricated with engine oil, which flows into the pump through a filter screen. Under certain conditions and over a period of time, debris such as oil sludge can accumulate on the filter screen, potentially restricting the flow of oil into the pump over time and gradually reducing the amount of vacuum pressure generated. Failure to follow recommended oil change intervals could contribute to this condition. These vehicles are equipped with a secondary, hydraulic power brake assist system that activates to provide power brake assist if the vacuum drops, however, as calibrated the hydraulic brake boost assist is limited at lower speeds.

Identification of Any Warning that can Occur : The driver may feel vibration in the brake pedal or a change in the amount of pressure required to depress the brake pedal. The operator and persons inside the vehicle may hear a ticking noise coming from the engine compartment or activation of the secondary hydraulic brake assist system. In addition, a "Service Brake Assist" message will appear in the Driver Information Center within two to five minutes of vacuum level less than 10 kPa.

Involved Components :

Component Name 1 : DATA FILE-ELEK BRK CONT MDL CALN

Component Description : Braking Control Module (BCM) calibration

Component Part Number : 84110293 thru 84110320, 84110322 thru 84110333, 84110335 thru 84110339

Component Name 2 : DATA FILE-ELEK BRK CONT MDL CALN

Component Description : Braking Control Module (BCM) calibration

Component Part Number : 84110341 thru 84110346, 84309752 thru 84309755

Supplier Identification :

Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

Chronology :

This is an expansion of NHTSA recall 19V645. GM defined the scope of this prior recall by analyzing manufacturing records to identify vehicles equipped with a specific vacuum brake-assist pump design. On June 2, 2020, based on an analysis of field data indicating a rise in field claims for the recall condition outside of the recall population, GM opened an investigation to determine whether the recall population was correctly defined.

After further investigation, which included an in-depth analysis of plant-level manufacturing records, GM identified additional vehicles equipped with the specific vacuum brake-assist pump design that should have been included in NHTSA recall 19V645. On September 24, 2020, GM's Safety and Field Action Decision Authority decided to conduct a safety recall.

Description of Remedy :

Description of Remedy Program : Dealers will reprogram the Electronic Brake Control Module in these vehicles with a new calibration that will improve how the system utilizes the hydraulic brake boost assist function when vacuum assist is depleted. Pursuant to 577.11, GM will provide reimbursement to owners for repairs according to the plan submitted on May 17, 2019.

How Remedy Component Differs from Recalled Component : The new calibration improves how the system utilizes the hydraulic brake boost assist function when vacuum assist is depleted.

Identify How/When Recall Condition was Corrected in Production : NR

Recall Schedule :

Description of Recall Schedule : Dealers will be notified on October 1, 2020. Customer notification is estimated to begin on November 16, 2020.

Planned Dealer Notification Date : OCT 01, 2020 - OCT 01, 2020

Planned Owner Notification Date : NOV 16, 2020 - NOV 16, 2020

* NR - Not Reported