

Part 573 Safety Recall Report

20V-736

Manufacturer Name : General Motors, LLC

Submission Date : DEC 04, 2020

NHTSA Recall No. : 20V-736

Manufacturer Recall No. : N202309680



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 : 9,279

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2015-2016 Chevrolet Silverado 1500

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Part traceability data was used to identify the affected vehicles. Vehicles produced with parts outside the supplier's suspect production window are not included in this recall.

5200 Chevrolet Silverado 1500 vehicles are affected by this recall.

Production Dates : JUL 13, 2015 - SEP 08, 2015

VIN Range 1 : Begin : NR **End :** NR

Not sequential

Vehicle 2 : 2015-2015 Chevrolet Silverado 2500/3500

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Part traceability data was used to identify the affected vehicles. Vehicles produced with parts outside the supplier's suspect production window are not included in this recall.

1318 Chevrolet Silverado 2500/3500 vehicles are affected by this recall.

Production Dates : JUL 14, 2015 - SEP 01, 2015

VIN Range 1 : Begin : NR **End :** NR

Not sequential

Vehicle 3 : 2015-2016 GMC Sierra 1500

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Part traceability data was used to identify the affected vehicles. Vehicles produced with parts outside the supplier's suspect production window are not included in this recall.

2111 GMC Sierra 1500 vehicles are affected by this recall.

Production Dates : JUL 13, 2015 - AUG 31, 2015

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 4 : 2015-2015 GMC Sierra 2500/3500

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Part traceability data was used to identify the affected vehicles. Vehicles produced with parts outside the supplier's suspect production window are not included in this recall.

587 GMC Sierra 2500/3500 vehicles are affected by this recall.

Production Dates : JUL 14, 2015 - AUG 31, 2015

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 2015 – 2016 model year Chevrolet Silverado and GMC Sierra vehicles. In these vehicles, the roof-rail airbag (“RRAB”) inflators, which are located on the left and right side roof rails above the headliner, may contain a manufacturing defect that can cause the inflator end cap to detach from the inflator vessel.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If the end cap separates from the inflator, the compressed gas will escape from the RRAB inflator and the end cap can be propelled into the vehicle, potentially causing an occupant injury if the vehicle is occupied.

Description of the Cause : Corrosion inside the inflator vessel near the end cap, which was caused by moisture introduced into the vessel during the supplier's manufacturing process.

Identification of Any Warning NR
that can Occur :

Involved Components :

Component Name 1 : AIRBAG ASM-FRT & RR ROW R/RAIL

Component Description : Roof Rail Air Bag

Component Part Number : 84487867, 84487868, 84487863, 84487864, 84487865, 84487866

Supplier Identification :

Component Manufacturer

Name : Joyson Safety Systems

Address : Parque Industrial, Valle Hermoso 89,
Lote 4 y 5 S/N, Tamaulipa Valle Hermoso Foreign States 87500

Country : Mexico

Chronology :

On June 2, 2020, GM's Technical Assistance Center received a report from a GM dealer regarding an unwanted/uncommanded deployment of a roof-rail airbag (RRAB) in a 2015 model year Chevrolet Silverado. An inspection was conducted on June 22, 2020, and based on the photos obtained in that inspection, the issue was submitted to GM's Speak Up For Safety (SUFS) on June 25, 2020. On June 26, 2020, GM opened a formal product investigation.

The RRAB inflator supplier received the inflator from the field on July 17, 2020, and began engineering analyses on the returned part, including metallurgical and scanning electron microscopy analyses. The supplier found evidence of corrosion and material embrittlement at the inflator end cap.

The supplier observed similar corrosion and embrittlement in a RRAB inflator returned from the field that was involved in a similar cap-separation incident in 2019. These are the only two cases of this condition that GM is aware of based on its field-data analysis. Both vehicles were unoccupied when the incidents occurred. GM is not aware of any injuries related to this condition.

On October 20, 2020, the supplier informed GM that it identified a production period during which moist air might have been introduced into the inflator manufacturing process. This supplier production window aligns with the manufacturing dates of inflators from both field cap-separation incidents. On November 18, 2020, GM's Safety and Field Action Decision Authority decided to conduct a safety recall on RRAB inflators produced

during this production window. Key Safety Systems, the supplier at the time of manufacture, is now Joyson Safety Systems.

Description of Remedy :

Description of Remedy Program : Dealers will replace suspect RRAB modules. Suspect modules may be on the left side and/or right side. 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 : Remedy parts were produced outside the supplier's suspect production window.

Identify How/When Recall Condition was Corrected in Production : The supplier updated their method of moisture removal during inflator manufacture on September 25, 2015.

Recall Schedule :

Description of Recall Schedule : Dealers will be notified on November 25, 2020. Customer notification is estimated to begin on January 10, 2021. This recall will be conducted under three GM numbers: N202309680, N202309681, and N202309682.

Planned Dealer Notification Date : NOV 25, 2020 - NOV 25, 2020

Planned Owner Notification Date : JAN 10, 2021 - JAN 10, 2021

* NR - Not Reported