

Part 573 Safety Recall Report

20V-581

Manufacturer Name : General Motors LLC**Submission Date :** SEP 24, 2020**NHTSA Recall No. :** 20V-581**Manufacturer Recall No. :** N202307690**Manufacturer Information :****Population :**

Manufacturer Name : General Motors LLC

Number of potentially involved : 5

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

Estimated percentage with defect : 50 %

Company phone : 586-596-1733

Vehicle Information :

Vehicle 1 : 2020-2020 Chevrolet Corvette

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Manufacturing records and supplier trace data were used to identify affected vehicles. Vehicles corrected while still under GM control are not included in this recall.

Production Dates : JUL 16, 2020 - JUL 16, 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 Corvette vehicles. The seat-belt supplier for these vehicles inadvertently manufactured certain pretensioner components that were deformed and out of specification. That deformation may result in the retractor not locking following normal deployment of the pretensioner. As a result, the seat-belt retractor may not properly restrain the passenger in a high-speed impact.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If the seat belt does not lock during a high-speed crash, the driver may not be restrained as designed, increasing the risk of injury.

Description of the Cause : The seat-belt assembly's pretensioner tube was not properly secured during manufacture by the supplier which allowed unintended deformation of the tube.

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : RETRACTOR ASM-F/SEAT BELT

Component Description : Seat Belt Retractor

Component Part Number : 84609046

Supplier Identification :**Component Manufacturer**

Name : ZF Group

Address : 12001 Tech Center Drive
Livonia MICHIGAN 48150

Country : United States

Chronology :

On June 1, 2020, a GM engineer reported a seat-belt retractor failure during a barrier test on a model-year 2023 Corvette through GM's Speak Up For Safety program because the same retractor system is used on current Corvette models. GM opened an investigation on June 23, 2020.

GM worked with the supplier to analyze the root cause of the retractor failure, including teardowns, computer analysis, and CAE simulations. That analysis showed that the retractor failure was caused by the locking mechanism not being properly engaged. On July 6, 2020, GM reviewed computer analysis conducted by the seat belt supplier that showed the locking failure was caused by a deformed pretensioner tube. That deformation, which occurred during manufacture, may prevent the retractor from locking following normal deployment of the pretensioner.

On July 7, 2020, the trace data the supplier provided showed that there were no affected vehicles with the suspect retractors in the field – all VINs with suspect retractors were company-owned and driven vehicles. However, on August 31, 2020, the supplier provided additional trace data from a second production line that showed there were 5 vehicles with the suspect retractors outside of GM's control. The investigation was reviewed by GM's Open Investigation Review Board on September 14, 2020, and on September 17, 2020, GM's Safety and Field Action Decision Authority decided to conduct a safety recall. GM is not aware of any injuries or accidents related to this condition.

Description of Remedy :

Description of Remedy Program : Dealers will replace the driver-side seat-belt retractor. Pursuant to 577.11, General Motors does not plan to provide notice about reimbursement to owners because owners would not have been aware of the issue prior to this recall.

How Remedy Component Differs from Recalled Component : Replacement retractors were produced by the supplier after manufacturing corrections were implemented to prevent unintended deformation of the pretensioner tube.

Identify How/When Recall Condition was Corrected in Production : All suspect retractors identified through trace data from the supplier have been accounted for.

Recall Schedule :

Description of Recall Schedule : Dealers will be notified on September 24, 2020. Customer notification is estimated to begin on November 9, 2020.

Planned Dealer Notification Date : SEP 24, 2020 - SEP 24, 2020

Planned Owner Notification Date : NOV 09, 2020 - NOV 09, 2020

* NR - Not Reported