

Part 573 Safety Recall Report

20V-489

Manufacturer Name : General Motors LLC**Submission Date :** AUG 25, 2020**NHTSA Recall No. :** 20V-489**Manufacturer Recall No. :** N202311160**Manufacturer Information :****Population :**

Manufacturer Name : General Motors LLC

Number of potentially involved : 7,029

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

Estimated percentage with defect : 100 %

Company phone : 586-596-1733

Vehicle Information :

Vehicle 1 : 2020-2020 Chevrolet Corvette

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Manufacturing records were used to identify affected vehicles. Vehicles produced after the correction was implemented in production and vehicles corrected prior to shipment from the plant are not included in this recall.

Production Dates : AUG 08, 2019 - AUG 13, 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. If drivers ignore the vehicle's visual and audible warnings that the front trunk lid is open, they can drive the vehicle in that condition at speed, which could increase the likelihood that the wind force is sufficient to inadvertently flip open the hood.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If the hood is open (i.e., the primary and secondary latches are not engaged) while driving at speed, the hood could flip open and obstruct the driver's forward view, increasing the risk of a crash.

Description of the Cause : Certain drivers appear to either ignore or not take notice of the visual warnings displayed on the instrument panel and/or the audible chimes before driving the vehicle at sufficient speed for air resistance to open an unlatched hood.

Identification of Any Warning : When the hood is not completely closed and latched, the driver receives the

that can Occur : following warnings and alerts:

- the hood-ajar icon on the instrument panel is illuminated and the driver information center (DIC) displays a message that the hood is open;
- an initial audible chime will sound once;
- when the vehicle is in drive and moving above 3 mph, a persistent chime plays; and,
- the DIC currently displays a message that indicates the vehicle speed is limited to 82 mph (this will be changed to 26 mph with the software remedy described below).

Involved Components :

Component Name 1 : Locking CalSet

Component Description : Body Control Module (BCM) Software Calibration

Component Part Number : 84903093, 84903094, 84941874, 84941875, 84981792, 84981793, 85000834, 85000835, 85162514, 85162515

Component Name 2 : PPEI1 CalSet

Component Description : Body Control Module (BCM) Software Calibration

Component Part Number : 84879689, 84879690

Component Name 3 : PEPS1 CalSet

Component Description : Body Control Module (BCM) Software Calibration

Component Part Number : 84926772, 84972382, 84981799

Supplier Identification :

Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

Chronology :

On April 21, 2020, GM learned of a NHTSA Vehicle Owner Questionnaire (VOQ) regarding the front trunk (hood) on the subject vehicle opening while driving. GM opened an investigation the next day. GM inspected the VOQ vehicle and determined that the hood and the hood-ajar alerts/warnings were all operating as designed. GM also confirmed that the vehicle's hood system functioned as designed and was compliant with FMVSS 113. Between May and July 2020, GM became aware of three additional VOQ reports of hoods opening while driving.

During the investigation, GM's investigator reviewed validation testing, analyzed related field complaints, inspected several vehicles involved in related incidents, and interviewed several complainants. The investigator also discovered that there were two reports of hoods opening while driving during vehicle testing at GM's Milford Proving Grounds in 2019. That analysis indicated that the few reports of hoods opening while driving were related to drivers inadvertently pressing the hood (i.e., front trunk) release button on the key FOB while the vehicle was stopped and in park. These drivers then overlooked subsequent warnings when the vehicle was moved out of park. After resuming driving, incidents usually occurred after the vehicle exceeded 30 mph. Complainants often had the radio on which may have contributed to drivers ignoring the audible warnings. In at least one incident posted on YouTube, GM analyzed the audio frequency and determined that the warning chime was present and ignored.

This investigation was reviewed by GM's Open Investigation Review Board on August 10, 2020, and on August 11, 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 : GM will update the software in the vehicles' Body Control Module (BCM) to limit vehicle speed to 26 mph when the hood is not completely closed and latched. The software update will also provide a DIC message indicating that the top speed is limited to 26 mph. In addition, the operation of the hood release on the key fob will be modified to reduce the likelihood of inadvertent hood release actuations. The interior door trim switch and release button located inside the front trunk compartment are also modified to require a longer press-time. Owners who have accepted applicable terms and conditions will have the opportunity to accept these software changes using wireless over-the-air (OTA) technology without having to bring their vehicle to a dealership. Alternatively, owners may schedule service at a GM dealer to receive these software updates. 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 revised BCM software calibration will limit vehicle speed to 26 mph and provide a DIC message indicating a top speed limited to 26 mph when the hood is not fully latched. The revised BCM software calibration will also modify key-fob hood-release functionality to reduce the likelihood of

Identify How/When Recall Condition was Corrected in Production : inadvertent actuations. Vehicles produced at GM's assembly plant after August 13, 2020 were held and will be corrected when revised BCM software is implemented into regular production the week of August 24, 2020.

Recall Schedule :

Description of Recall Schedule : Dealers will be notified on August 18, 2020. Customer notification is estimated to begin on October 3, 2020.
Planned Dealer Notification Date : AUG 18, 2020 - AUG 18, 2020
Planned Owner Notification Date : OCT 03, 2020 - OCT 03, 2020

* NR - Not Reported