

Part 573 Safety Recall Report

19V-642

Manufacturer Name : General Motors LLC**Submission Date :** OCT 07, 2019**NHTSA Recall No. :** 19V-642**Manufacturer Recall No. :** N192221960**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 : 177,282

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2018-2018 Chevrolet Malibu

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : The recalled population includes 2018 Malibu vehicles with the 1.5L turbo engine (RPO LfV).

Malibu vehicles with other engines and Malibu vehicles from other model years use different ECM software that does not have this defect.

177,282 Chevrolet Malibu vehicles are affected by this recall.

Production Dates : APR 25, 2017 - SEP 20, 2018

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 Chevrolet Malibu vehicles equipped with 1.5L Turbo engines. Under certain conditions, an error in the vehicles' engine control module (ECM) software can cause data used by the ECM to become corrupted. When this occurs, the ECM may send a signal disabling the engine's fuel injectors. If the fuel injectors are disabled, the engine may not start and, in rare cases, the engine may stall after it is started.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : In rare cases this condition can cause the engine to stall at speed and without warning, increasing the risk of a crash.**Description of the Cause :** The condition is caused by an error in the ECM software, which was programmed by GM's supplier of the modules.

Identification of Any Warning that can Occur : In most cases, the engine will not start. The vehicle's check engine light may illuminate when this condition occurs.

Involved Components :

Component Name 1 : NR

Component Description : NR

Component Part Number : NR

Supplier Identification :

Component Manufacturer

Name : Continental Automotive Systems

Address : 3740 N. Austin St
Sequin TEXAS 78155

Country : United States

Chronology :

On May 14, 2019, GM opened an investigation into this condition after GM's data analytics group observed potentially higher than normal warranty rates for engine control module (ECM) replacements in certain 2018 Malibu vehicles equipped 1.5L Turbo engines. Some of the warranty claims indicated the failure could be accompanied by a no start condition or, in rare cases, a stall condition.

GM's investigator obtained relevant field data and reviewed the condition and data with GM's engineers and representatives from the ECM supplier, Continental Automotive Systems. The team discovered a change in the ECM software between the 2018 and 2019 model years for these vehicles, which they believed may have accounted for the higher failure rates in the 2018 model year vehicles. After further evaluation and consultation, the team was able to confirm the presence of an error in the 2018 ECM software, which can cause data used by the ECM to become corrupted. When this occurs, the ECM may send a signal disabling the engine's fuel injectors.

GM's Open Investigation Review board reviewed the status of the investigation on August 18, 2019. GM's Safety & Field Action Decision Authority (SFADA) reviewed the investigation status on August 22, 2019 and again on August 29, 2019, at which time SFADA decided to conduct a safety recall to reprogram the ECMs to correct the software error.

Description of Remedy :

Description of Remedy Program : Dealers will reprogram the ECM software to correct the error. 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 ECM software corrects the condition that was causing corrupt data.

Recalled Component Name: MODULE ASM-ENG CONT
Recalled Component Description: Engine Control Module
Recalled Component Part Number: 12689129
Recalled Component Country of Origin: U.S.

Identify How/When Recall Condition was Corrected in Production : 2019 model year Malibu used different ECM software that does not have this defect.

Recall Schedule :

Description of Recall Schedule : Dealers will be notified on September 6, 2019. GM plans to mail owner notification letters 10/16/2019 through 10/21/2019.

Planned Dealer Notification Date : SEP 06, 2019 - SEP 06, 2019

Planned Owner Notification Date : OCT 16, 2019 - OCT 21, 2019

* NR - Not Reported