

Part 573 Safety Recall Report

16V-272

Manufacturer Name : General Motors LLC**Submission Date :** MAY 16, 2016**NHTSA Recall No. :** 16V-272**Manufacturer Recall No. :** 39440**Manufacturer Information :**

Manufacturer Name : General Motors LLC

Address : 30001 VAN DYKE
MAIL CODE 480-210-2V WARREN MI
48090

Company phone : 5961733

Population :

Number of potentially involved : 66

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2016-2016 Chevrolet Malibu

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Certain 2016 Chevrolet Malibu vehicles

Production Dates : MAR 07, 2016 - MAR 12, 2016

VIN Range 1 : Begin : NR End : NR

 Not sequential**Description of Noncompliance :**

Description of the Noncompliance : General Motors has decided that certain 2016 Chevrolet Malibu vehicles may not comply with Federal Motor Vehicle Safety Standard (FMVSS) No. 126, "Electronic Stability Control Systems." The memory chip in the electronic brake control module (EBCM) may fail and cause the loss of electronically controlled brake systems, including anti-lock brakes (ABS) and electronic stability control (ESC).

FMVSS 1 : 126 - Electronic stability control systems

FMVSS 2 : NR

Description of the Safety Risk : If the EBCM fails, the electronically controlled brake systems—e.g., ABS and ESC—will be inoperative and the vehicle could be more difficult to control in situations where these brake systems would normally be engaged, which could increase the risk of a crash. This condition does not affect the primary braking system; the service brakes will operate normally.

Description of the Cause : The EBCM supplier used EBCM parts that had previously failed and should have been scrapped, and reflashed them with an unapproved tool. This resulted in EBCMs that did not accurately write voltages to the memory.

Identification of Any Warning : If the EBCM fails, the driver information center (DIC) will display a message indicating to the driver to service stability control, traction control, or both. In

that can Occur : addition, three malfunction indicator lights will be displayed: (1) ABS, (2) ESC, and (3) service brake system.

Supplier Identification :

Component Manufacturer

Name : ZF TRW

Address : 12000 Tech Center Drive,
Livonia MICHIGAN 48150

Country : United States

Chronology :

On March 8, 2016, 13 vehicles failed a dynamic vehicle test at GM's Hamtramck assembly plant. Specifically, these 13 vehicles set diagnostic trouble codes indicating the loss of electronically controlled brake systems—e.g., anti-lock brakes (ABS) and electronic stability control (ESC). The primary braking system was not affected and functioned properly. GM's Hamtramck plant immediately notified TRW, the supplier of the failed electronic brake control modules (EBCM). TRW retrieved the suspect EBCMs for further testing to identify why the modules failed.

On March 21, 2016, TRW notified GM that the suspect EBCMs contained defective memory chips that were re-flashed with inaccurate voltages. That same day, GM's EBCM design release engineer reported the EBCM failures as a potential safety issue through GM's Speak Up For Safety (SUFS) program. GM opened an investigation on April 4, 2016. GM, working with TRW, confirmed that vehicles with these failed EBCMs would not have ABS or ESC as required by S5.2 of FMVSS 126. TRW also identified the serial numbers of suspect EBCMs shipped to GM. From these serial numbers, GM was able to identify the VINs of the affected GM vehicles. A review of warranty, TREAD, and VOQ data revealed no field reports and no accidents, injuries, or fatalities for this issue. On April 27, 2016, GM's Safety Field Action Decision Authority (SFADA) decided to conduct a noncompliance recall.

Description of Remedy :

Description of Remedy Program : Dealers will install a replacement EBCM. Pursuant to 49 C.F.R. § 573.13(d) (1), all covered vehicles are under warranty so reimbursement is not offered.

How Remedy Component Differs from Recalled Component : The replacement EBCM will have accurate voltages written to memory.

Identify How/When Recall Condition was Corrected in Production : Chevrolet Malibu vehicles built after 03/12/2016 will have EBCMs with accurate voltages written to memory.

Recall Schedule :

Description of Recall Schedule : General Motors will notify dealers on May 4, 2016. General Motors will provide owner letter notification dates when available.

Planned Dealer Notification Date : MAY 04, 2016 - MAY 04, 2016

Planned Owner Notification Date : JUN 10, 2016 - JUN 10, 2016

* NR - Not Reported