

**Part 573 Safety Recall Report****13V-360****Manufacturer Name :** General Motors LLC**Submission Date :** NOV 19,2015**NHTSA Recall No. :** 13V-360**Manufacturer Recall No. :** 12213**Manufacturer Information :**

Manufacturer Name : General Motors LLC

Address : 30001 VAN DYKE

MAIL CODE 480-210-2V WARREN MI 48090

Company phone : 999

**Population :**

Number of potentially involved : 292,879

Estimated percentage with defect : 100

**Vehicle Information :**

Vehicle : 2012-2012 CHEVROLET CRUZE

Vehicle Type : LIGHT VEHICLES

Body Style : NR

Power Train : NR

Descriptive Information : NR

Production Dates : APR 06, 2011 - AUG 07, 2012

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

 Not sequential VINs

Vehicle : 2011-2011 CHEVROLET CRUZE

Vehicle Type : LIGHT VEHICLES

Body Style :

Power Train : NR

Descriptive Information : Certain 2011 Chevrolet Cruze vehicles

Production Dates : MAY 10, 2010 - JUN 20, 2011

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

 Not sequential VINs**Description of Defect :**

Description of the Defect : General Motors (GM) is recalling certain model year 2011-2012 Chevrolet Cruze vehicles equipped with 1.4L DOHC gasoline turbo engines and 6T40 front wheel drive automatic transmissions and equipped with an electric vacuum pump to provide supplemental vacuum for brake assist, when needed. In the affected

vehicles, the pump may not activate, resulting in an intermittent reduction or loss of brake assist.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A loss of braking assistance will require extra pedal force and/or distance to bring the vehicle to a stop, increasing the risk of a crash.

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

**Supplier Identification :**

**Component Manufacturer**

Name : TI Automotive, LLC

Address : 1272 Doris Road

Auburn Hills MICHIGAN 48326

Country : United States

**Chronology :**

On July 3, 2012, GMNA became aware of a field product report issued for a brake performance complaint. A part return request was initiated for brake system components and, on August 2, 2012, a GM Product Investigations engineer was assigned to investigate. In late August 2012, GM issued a technical service bulletin to assist dealers in diagnosing customer or technician comments stating a hard brake pedal at start up or while idling.

In October 2012, sample brake components were collected from GM company owned vehicles and were found to be performing properly. Analysis of warranty at that time found one claim stating the driver backed into another vehicle. Starting November 1, 2012, several Red-X teams were formed to work on projects to determine reasons for loss of brake assist. The teams discovered silicon residue on the switch contacts.

In January and February 2013, GM worked with the switch supplier to understand the source of silicon off-gassing in addition to monitoring field reports for any increase in trend over the next few months. During the months of June and July 2013, the incident rate of complaints increased.

A comprehensive review of warranty and field report verbatims conducted in July 2013 identified a total of 27 potentially related reports with allegations of low speed crashes with no injuries in driveways and parking lots on the subject vehicles. It was further determined using detailed engine vacuum mapping, that this safety concern is specific to the integrated combination of the LUJ/MH8 engine/transmission. If the supplemental vacuum is not available, there may be driving conditions where there may be no vacuum brake assist.

The issue was presented to the Field Performance Evaluation Review Committee and on August 7, 2013, the Executive Field Action Decision Committee decided to conduct a safety recall.

**Description of Remedy :**

Description of Remedy Program : GM dealers will replace the power brake vacuum pipe and switch assembly, free of charge. GM has notified owners. The recall began on October 7,

2013. Owners may contact Chevrolet at 1-800-222-1020. GM's recall number is 12213.

How Remedy Component Differs from Recalled Component : NR

Identify How/When Recall Condition was Corrected in Production : NR

**Recall Schedule :**

Description of Recall Schedule : NR

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : NR - NR

\* NR - Not Reported