

Part 573 Safety Recall Report

20V-808

Manufacturer Name : General Motors, LLC**Submission Date :** DEC 22, 2020**NHTSA Recall No. :** 20V-808**Manufacturer Recall No. :** N202321400**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 : 464

Estimated percentage with defect : 17 %

Vehicle Information :

Vehicle 1 : 2020-2020 Chevrolet Bolt EV

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Supplier shipping records and manufacturing records were used to identify the vehicles with suspect components.

Production Dates : OCT 05, 2020 - OCT 21, 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 Bolt EV vehicles. These vehicles may have an improperly cast front-left brake caliper that can fracture during a high-pressure braking event. A fracture of the brake caliper can result in a loss of brake fluid in half of the vehicle's braking system and reduced brake performance.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If the front-left brake caliper fractures and brake fluid is lost, the vehicle may experience reduced brake performance, increasing the risk of a crash.

Description of the Cause : Iron used to manufacture the caliper was not properly treated by the supplier prior to casting.

Identification of Any Warning NR
that can Occur :

Involved Components :

Component Name 1 : CALIPER ASM-FRT BRK - LH

Component Description : Left Hand Front Brake Caliper Assembly

Component Part Number : 13532172

Supplier Identification :**Component Manufacturer**

Name : Mando Corporation

Address : 4201 Northpark Drive
Opelika Alabama 36801

Country : United States

Chronology :

On October 21, 2020, GM's brake-caliper supplier notified GM that a Chevrolet Bolt EV brake caliper fractured during a high-pressure leak test. The supplier's preliminary investigation indicated that the fracture was due to improper treatment of the caliper iron prior to casting the caliper, and that the condition appeared to be confined to a single production lot. The issue was reported to GM's Speak Up for Safety Program on October 22, 2020, and GM opened a formal investigation on October 30, 2020.

GM's investigation confirmed the supplier's analysis that the issue appears to be confined to a single casting lot. Shipping records and assembly plant manufacturing records were then used to determine vehicles that may have received a brake caliper from the suspect lot. GM's field-data analysis did not identify any incidents related to this condition. On December 17, 2020, GM's Safety and Field Action Decision Authority decided to conduct a safety recall. GM is not aware of any accidents or injuries associated with this condition.

Description of Remedy :

Description of Remedy Program : Dealers will inspect the casting lot number on the front left brake caliper and replace if necessary. 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 : Replacement parts were not manufactured from supplier's suspect lot.

Identify How/When Recall Condition was Corrected in Production : Containment efforts were conducted at the supplier and at GM assembly plant on October 23, 2020. On October 26, 2020, the supplier implemented a non-destructive test of all parts and process improvements to prevent unconfirmed parts from being shipped.

Recall Schedule :

Description of Recall Schedule : Dealers will be notified on December 22, 2020. Owner notification is estimated to begin on February 5, 2021.

Planned Dealer Notification Date : DEC 22, 2020 - DEC 22, 2020

Planned Owner Notification Date : FEB 05, 2021 - FEB 05, 2021

* NR - Not Reported