

Part 573 Safety Recall Report

22V-771

Manufacturer Name : General Motors, LLC**Submission Date :** MAR 16, 2023**NHTSA Recall No. :** 22V-771**Manufacturer Recall No. :** N222380031**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 : 797

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2022-2022 BrightDrop EV600

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Supplier shipping records and manufacturing records were used to determine the affected population.

Vehicles equipped with high voltage battery pack enclosures produced outside of the supplier's suspect manufacturing window are not included in this recall.

92 BrightDrop EV600 vehicles are affected by this recall.

Production Dates : JAN 26, 2022 - JUN 24, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2022-2023 GMC HUMMER EV Pickup

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Supplier shipping records and manufacturing records were used to determine the affected population.

Vehicles equipped with high voltage battery pack enclosures produced outside of the supplier's suspect manufacturing window are not included in this recall.

705 GMC Hummer vehicles are affected by this recall.

Production Dates : SEP 28, 2021 - OCT 11, 2022

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 2022 model year BrightDrop EV600 and 2022 to 2023 model year GMC Hummer vehicles. The high-voltage battery pack enclosure in some of these vehicles may not have been properly sealed. If the pack enclosure is not sealed, water can enter the pack.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : GM is aware of three confirmed reports of this condition causing water to enter the pack. In two of the cases, the vehicles would not start. In the third case, the vehicle lost propulsion while driving. A loss of propulsion while driving can increase the risk of a crash.

Description of the Cause : Flanges on the battery pack enclosure may not have been properly primed or electrocoated, inhibiting proper adhesion of the urethane sealant.

Identification of Any Warning that can Occur : If water enters the battery pack enclosure and causes a battery pack malfunction, one or more malfunction indicator lamps may illuminate and the driver information center will display a warning message to the driver.

Involved Components :

Component Name 1 : BATTERY ASM-HIGH VLTG

Component Description : High Voltage Battery Pack Assembly

Component Part Number : 24048088, 24049061

Supplier Identification :

Component Manufacturer

Name : Magna International Inc

Address : 1811 S. Range Rd.

St. Clair Michigan 48079

Country : United States

Chronology :

On July 26, 2022 and August 9, 2022, GM received Speak Up For Safety (SUFS) submissions relating to potential electrocoating and urethane-sealing issues in certain Hummer EV battery packs. GM opened product investigations to investigate these related allegations on August 2, 2022 and August 19, 2022. GM's

investigations identified two manufacturing errors—undercured electrocoating along certain portions of the battery tray and improper urethane seal repair—that could result in poor urethane seal adhesion in battery packs built during specific build windows.

GM is aware of two relevant field reports and a relevant report involving a GM-owned test vehicle. In the two field reports, received by GM on June 27 and July 19, 2022, the vehicles would not start. In the third report, a GM-owned test vehicle lost propulsion during a test event at GM's Milford Proving Grounds on September 24, 2022. All three of these vehicles exhibited water leaks at urethane seals that had been repaired by the battery pack supplier during pack assembly. Water inside the battery packs triggered the vehicles' onboard diagnostics, and the drivers received notification of a battery-pack malfunction.

GM is not aware of any accidents, injuries, or fires related to this condition. GM's Safety Field Action Decision Authority (SFADA) decided to conduct a safety recall on vehicles containing packs with potentially improperly repaired urethane seals on October 6, 2022. SFADA decided to expand this recall to vehicles that may have battery pack trays with undercured electrocoating on October 13, 2022.

Description of Remedy :

Description of Remedy Program : Dealers will replace high-voltage battery packs. 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 : NR

Identify How/When Recall Condition was Corrected in Production : Containment efforts to address undercured electrocoating were initiated at GM's assembly plant and GM's supplier on July 21, 2022. Corrections to the urethane seal repair procedure were implemented at GM's supplier on August 10, 2022.

Recall Schedule :

Description of Recall Schedule : Dealers will be notified on October 13, 2022. Owner interim notification mailed December 6 through December 8, 2022. Owner notification of an available remedy is expected mail in phases from March 31, 2023 through June 30, 2023.

Planned Dealer Notification Date : OCT 13, 2022 - OCT 13, 2022

Planned Owner Notification Date : MAR 31, 2023 - JUN 30, 2023

* NR - Not Reported