

Part 573 Safety Recall Report

23V-114

Manufacturer Name : Lordstown EV Corp**Submission Date :** FEB 28, 2023**NHTSA Recall No. :** 23V-114**Manufacturer Recall No. :** NR**Manufacturer Information :****Manufacturer Name :** Lordstown EV Corp**Address :** 38555 Hills Tech Dr
Farmington Hills MI 48331**Company phone :** 248-522-9100**Population :****Number of potentially involved :** 19**Estimated percentage with defect :** 100 %**Vehicle Information :****Vehicle 1 :** 2023-2023 Lordstown Endurance**Vehicle Type :** LIGHT VEHICLES**Body Style :** PICKUP TRUCK**Power Train :** HYBRID ELECTRIC**Descriptive Information :** Full-size, fully electric pick-up truck. Recall includes all vehicles built to date.**Production Dates :** AUG 23, 2023 - DEC 08, 2023**VIN Range 1 : Begin :** NR**End :** NR☐ Not sequential**Description of Defect :****Description of the Defect :** A high-voltage cable assembly between the inverter and the motor may lose high-voltage isolation between the busbar and conductive shield, causing an unexpected reduction of power and eventual loss of propulsion.**Applicable Part Numbers:**

LEVC: ALFG-061-BA, ALFG-063-BA, ALFG-067-BA, ALFG-069-BA

AIPC: 710550001 Rev A, 710560001 Rev A, 710570001 Rev B, 710580001 Rev B

FMVSS 1 : NR**FMVSS 2 :** NR**Description of the Safety Risk :** Vehicle may experience reduction and eventual loss of propulsion without prior warning if the fault occurs. Once the vehicle is stopped, it may automatically shift into Neutral. Once the vehicle is shut off, it cannot be restarted. Each of these conditions could result in an increased risk of a crash.**Description of the Cause :** NR**Identification of Any Warning that can Occur :** A notification will appear on the instrument panel indicating that the isolation fault has occurred.

Involved Components :

Component Name 1 : High-voltage cable assembly

Component Description : Front Left Busbar

Component Part Number : LEVC Part Number ALFG-061-BA; Supplier Part Number: 710550001 Rev A

Component Name 2 : High-voltage cable assembly

Component Description : Rear Left Busbar

Component Part Number : LEVC Part Number: ALFG-067-BA; Supplier Part Number: 710570001Rev B

Component Name 3 : High-voltage cable assembly

Component Description : Front Right Busbar

Component Part Number : LEVC Part Number: ALFG-063-BA; Supplier Part Number: 710560001 Rev A

Component Name 4 : High-voltage cable assembly

Component Description : Rear Right Busbar

Component Part Number : LEVC Part Number: ALFG-069-BA; Supplier Part Number: 710580001 RevB

Supplier Identification :**Component Manufacturer**

Name : Amphenol Interconnect Products Corp.

Address : No. 1199 Bihua Rosd., Jinxin Street

Tongzhou District, Nantong Nantong, Jiangsu Foreign States 226300

Country : China

Chronology :

On January 20, 2023, a vehicle owned and operated by Lordstown EV Corporation (Lordstown) experienced a loss of propulsion. Subsequent similar events were reported on other Lordstown controlled vehicles in the following days, and all after a major snow event in the Detroit area. On February 1, 2023, Lordstown received a report of a customer vehicle (also in Detroit) that had also experienced a loss of propulsion and shifted itself out of Drive while at a stop, before it was delivered to Lordstown for analysis. Plant production was already on

hold when these events occurred, and production remains on hold. Parts analysis was conducted by the supplier between January 24, 2023 and early February which consisted of hi-pot testing, optical imaging, 2D x-ray, cross section w/ optical images, CT 2D slice view, and CT 3D views. Lordstown received feedback on the supplier’s testing between January 24, 2023 and February 7, 2023 and considered the testing results, the part failure mode, and the gradual and controlled manner in which the vehicle could lose power. On February 21, 2023, Lordstown decided to conduct a recall to address this issue.

Description of Remedy :

Description of Remedy Program :	Supplier has developed a new version of the part (BB-level) that will increase the high voltage isolation barrier. Lordstown will replace BA-level busbars with new BB-level busbars in all vehicles at no cost to owners.
How Remedy Component Differs from Recalled Component :	The busbar overmold holes are redesigned, and an increased level of epoxy is applied in the redesigned parts. BB-level busbars part numbers are marked on the busbars themselves, which distinguishes them from the BA-level parts.
Identify How/When Recall Condition was Corrected in Production :	Only new BB-level busbars will be utilized in future production; BA-level busbars will be marked and destroyed. All vehicles inside the gate at the factory will be refit with BB-level busbars.

Recall Schedule :

Description of Recall Schedule :	NR
Planned Dealer Notification Date :	FEB 22, 2023 - FEB 23, 2023
Planned Owner Notification Date :	FEB 22, 2023 - FEB 28, 2023

* NR - Not Reported