

Part 573 Safety Recall Report

23V-448

Manufacturer Name : Lion Electric Company**Submission Date :** AUG 29, 2023**NHTSA Recall No. :** 23V-448**Manufacturer Recall No. :** R2023-006**Manufacturer Information :**

Manufacturer Name : Lion Electric Company

Address : 921 Chem. de la Rivière du N
Saint-Jérôme, Quebec, Canada 00 J7Y
5G2

Company phone : 1-855-546-6706

Population :

Number of potentially involved : 141

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2019-2025 Lion Electric LionC

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style :

Power Train : HYBRID ELECTRIC

Descriptive Information : All vehicles made between April 2018 and June 2023 assembled with the problematic surge support configuration.

Production Dates : APR 01, 2018 - JUN 27, 2023

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : The high-voltage cables running under the surge tank can be damaged by excessive movement of the surge tank. Excessive tank movement is due to the flexibility of the sheet metal of the vehicle's firewall, on which the surge tank is attached. Over time, cracks may appear in the firewall around the tank support brackets, accentuating movement and increasing the risk of cable damage.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Damage to high-voltage cables can lead to deactivation of the vehicle's high-voltage circuit. Loss of high voltage will lead to loss of steering assistance and the vehicle's engine power, as well as loss of the vehicle's primary braking system. The secondary pump guarantees the vehicle's braking capacity, but braking power will be reduced. A loss of high voltage would increase the risk of collision.

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : Surge tank

Component Description : Coolant reservoir

Component Part Number : 10110009

Supplier Identification :**Component Manufacturer**

Name : NR

Address : NR

NR

Country : NR

Chronology :

- December 2022: Opening of an investigation following several cases of cracks and damaged HV harnesses detected in service.
- June 2023: New cases of in-service vehicles with cracks in the firewall leading to damage to the cables running under the tank were reported.
- June 22, 2023: Confirmation that the firewall cracks represent a defect regarding the Motor Vehicle Safety Regulations and approval of the recall proposal by Lion Electric's Safety Committee.
- To this day, there is no warranty claim raised by the customers related to this issue.

Description of Remedy :

Description of Remedy Program : First, a notice will be sent to the owners of the impacted vehicles advising them of the defect and the precautions to take regarding their vehicle.

The precaution is to contact Lion Electric if any anomaly is detected.

Lion will then contact each customer to determine a date of intervention where a team of technicians will be dispatched to change the surge tank support.

All costs will be covered by the Lion Electric Company under the warranty program

How Remedy Component Differs from Recalled Component : The new surge tank support bracket is attached to the accessory plate instead of the firewall.

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

Recall Schedule :

Description of Recall Schedule : An inventory of all vehicles affected will be completed, and Lion plans to send the notice of defect to owners of affected vehicles and affected persons by August 20, 2023.

Planned Dealer Notification Date : AUG 21, 2023 - AUG 25, 2023

Planned Owner Notification Date : AUG 21, 2023 - AUG 25, 2023

* NR - Not Reported