

# Part 573 Safety Recall Report

## 22V-530

**Manufacturer Name :** Lion Electric Company

**Submission Date :** JUL 22, 2022

**NHTSA Recall No. :** 22V-530

**Manufacturer Recall No. :** NR



### Manufacturer Information :

**Manufacturer Name :** Lion Electric Company

**Address :** 921, chemin de la Riviere-du-Nord  
Saint-Jerome, Quebec, Canada 00 J7Y  
5G2

**Company phone :** 1-855-546-6706

### Population :

**Number of potentially involved :** 39

**Estimated percentage with defect :** 90 %

### Vehicle Information :

**Vehicle 1 :** 2020-2022 Lion LionC

**Vehicle Type :** BUSES, MEDIUM & HEAVY VEHICLES

**Body Style :** OTHER

**Power Train :** HYBRID ELECTRIC

**Descriptive Information :** We have determined the number of impacted vehicles with our database and these are all LionC vehicles produced and sold in the United States

**Production Dates :** JUN 29, 2020 - JUL 22, 2022

**VIN Range 1 : Begin :**

NR

**End :** NR

☐ Not sequential

### Description of Noncompliance :

**Description of the Noncompliance :** Tests were conducted by Transport Canada, and it was found that the Lion C parking brake system, if not properly adjusted, did not meet the minimum requirement of CMVSS/FMVSS 105, section S5.2.2.

To meet this requirement, two main criteria must be met. The cable tension must be sufficiently high, and the cable sheath spring must operate freely to provide a constant parking brake force in both forward and reverse directions.

**FMVSS 1 :** 105 - Hydraulic and electric brake systems

**FMVSS 2 :** NR

**Description of the Safety Risk :** The identified failure of the parking brake may result in a crash, which is assessed as "unlikely". The driver could be inside the vehicle and will therefore be able to apply the brakes if the vehicle begins to move. Also, the vehicle is more likely to move when fully loaded and parked on a high grade, which is not a common operational situation.

**Description of the Cause :** The cable route was changed during a design update. Clamps around the

Identification of Any Warning  
that can Occur :

parking brake cable sheath were added causing additional tension for this new routing, resulting in an incorrect value when validating it.

## Involved Components :

Component Name 1 : NR

Component Description : NR

Component Part Number : NR

## Supplier Identification :

### Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

## Chronology :

March 2022: Transport Canada purchases a LionC vehicle to perform CMVSS105 and CMVSS136 certification testing

May 2022: Transport Canada testing begins at PMG Technologies - Automotive Test and Research Center

June 6, 2022: Request from Transport Canada to support LionC testing as parking brake testing does not meet compliance requirements

June 9-10, 2022: Joint testing between Lion Electric Company, Transport Canada and PMG Technologies to find the problem

## Description of Remedy :

Description of Remedy Program : First, a notice and instruction will be issued to the owners of the impacted vehicles advising them of the non-compliance and the precautions to be taken regarding their vehicle.  
As a second step, Lion will contact customers to determine the date of service.

How Remedy Component Differs from Recalled Component : NR

Identify How/When Recall Condition was Corrected in Production : This recall will be corrected on all vehicles in production as of August 15, 2022.

### Recall Schedule :

Description of Recall Schedule : We do not have Dealer to advise

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : AUG 22, 2022 - AUG 31, 2022

\* NR - Not Reported