

# Part 573 Safety Recall Report

# 23V-710

**Manufacturer Name :** Lion Electric Company**Submission Date :** OCT 20, 2023**NHTSA Recall No. :** 23V-710**Manufacturer Recall No. :** R2023-008**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 : 7

Estimated percentage with defect : 100 %

**Vehicle Information :**

Vehicle 1 : 2024-2025 Lion Electric LionC

Vehicle Type : BUSES, MEDIUM &amp; HEAVY VEHICLES

Body Style : OTHER

Power Train : HYBRID ELECTRIC

Descriptive Information : All the full-air configurations LionC made between 2022 and 2023. We have determined the number of impacted vehicles with our database, and these are all LionC full-air, sold in the United States.

Production Dates : OCT 10, 2022 - OCT 08, 2023

VIN Range 1 : Begin : NR End : NR

 Not sequential**Description of Defect :**

Description of the Defect : During vehicle assembly, the ABS pneumatic valve connections and rear wheel speed sensors may have been reversed.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Reverse connections of pneumatic valves and rear wheel speed sensors can make the vehicle unstable, increase air consumption and lead to one of the rear wheels locking up when the ABS system is activated. These effects can be combined and occur at the same time. The combination of these effects would increase the risk of collision.

Description of the Cause : Assembly errors.

Identification of Any Warning NR  
that can Occur :**Involved Components :**

Component Name 1 : Harness full-air option LionC

Component Description : Harness full-air option LionC

Component Part Number : 12801488\_01

## Supplier Identification :

### Component Manufacturer

Name : Lion Electric

Address : 921 Chemin de la Rivière du Nord  
Saint-Jérôme Foreign States J7Y 5G2

Country : Canada

## Chronology :

- Early May 2023: First reported cases of rear wheel lockup in hard braking situation. An investigation was opened.
- End of May 2023: The problem of inverted connections on the ABS modulators valves was discovered. The problem was observed on two different buses.
- Early September 2023: The inverted connection of the rear wheel speed sensor was found on the two same buses.
- October 16, 2023: Confirmation that the connection errors of the ABS system of the LionC full-air represent a defect regarding the Motor Vehicle Safety Regulations and approval of the recall proposal by Lion Electric's Safety Committee.
- To this day, no warranty claims were 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 or suspected in the braking system of the vehicle. Lion Electric will then ask the customer to contact Lion Electric to determine a date of intervention where a team of technicians will be dispatched to correct the ABS system connections. All costs will be covered by the Lion Electric Company under the warranty program. Each customer who has already paid to have their vehicle repaired for this defect may be eligible for reimbursement of the charges paid for the repair or replacement, as applicable.

How Remedy Component Differs from Recalled Component : NR

Identify How/When Recall Condition was Corrected in Production : The assembly procedure was updated on August 15th, 2023, to precise the ABS connections. A functional test was also implemented on August 16th at the pre-delivery inspection to validate that the system is connected adequately.

## 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 December 12, 2023

Planned Dealer Notification Date : DEC 12, 2023 - DEC 15, 2023

Planned Owner Notification Date : DEC 12, 2023 - DEC 15, 2023

\* NR - Not Reported