OMB Control No.: 2127-0004

Part 573 Safety Recall Report

23V-037

Manufacturer Name: Lion Electric Company

Submission Date: FEB 01, 2023 NHTSA Recall No.: 23V-037 Manufacturer Recall No.: NR



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: Estimated percentage with defect: 100 %

Vehicle Information:

Vehicle 1: 2021-2023 Lion Lion6 & Lion8

Vehicle Type: BUSES, MEDIUM & HEAVY VEHICLES

Body Style: 2-DOOR

Power Train: HYBRID ELECTRIC

Descriptive Information: We have determined the number of impacted vehicles with our database, and these

are all lion6 and Lion8 vehicles sold in the United States. We have corrected the defect

on the production line, since November

Production Dates: JAN 01, 2019 - JAN 24, 2023

VIN Range 1: Begin: End: NR ☐ Not sequential

Description of Defect:

Description of the Defect: The mitre box input and output shaft size used in the steering system are not

compatible with the connections of the other steering system components which could lead to play in the splines. The hardware must be tightened to a higher torque than specified to eliminate the backlash, which could lead to premature failure of the hardware. Without the higher torque, the play in the

connexions can lead to damaged splines.

FMVSS 1: NR FMVSS 2: NR

Description of the Safety Risk: Any play in the universal joint type couplings of the steering system would

potentially introduce stress on them. Also, tightening the bolts beyond the specified torque increases bolt failure risk. Both issues can lead to a complete loss of the steering system. This loss of the system could increase the risk of a

collision.

Description of the Cause: The defect is caused by the wrong integration of the miter box. The miter box

itself is not defective or noncompliant. Curtis Machine Company is not

responsible for this defect.

Identification of Any Warning NR that can Occur:

Involved Components:

Component Name 1: Miter box

Component Description: Angular gear used to transmit the steering column's rotation to the power

steering.

Component Part Number: 10002055

Supplier Identification:

Component Manufacturer

Name: Curtis Machine Company Address: 4209 Jayhawk Drive

Dodge City Kansas 67801

Country: United States

Chronology:

- October 2022: Discovery of a gap between the different components in production.
- October 2022 to January 2023: Investigation of potential non-compatibility of certain steering system components.
- January 23, 2023: Confirmation of the defect with respect to 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. Lion will then contact each customer to determine a date of intervention where a team of technicians will be dispatched to replace the mitre gear

for the new model.

The vehicles are new and all costs will be covered by the Lion Electric

Company under the warranty program.

How Remedy Component Differs The new mitre box input and output shaft will have a better fit with the

from Recalled Component: other components of the steering system which will eliminate the play in

the splines connexions.

Identify How/When Recall Condition The recall condition was corrected in production with the implementation

was Corrected in Production: of the new mitre box on January 24th, 2023.

Recall Schedule:

Description of Recall Schedule: We don't have any dealers to notify.

Planned Dealer Notification Date: NR - NR

Planned Owner Notification Date: FEB 20, 2023 - FEB 20, 2023

^{*} NR - Not Reported