

Part 573 Safety Recall Report

23V-083

Manufacturer Name : New Flyer of America, Inc.**Submission Date :** FEB 15, 2023**NHTSA Recall No. :** 23V-083**Manufacturer Recall No. :** R23-002**Manufacturer Information :**

Manufacturer Name : New Flyer of America, Inc.

Address : 711 Kernaghan Avenue
Winnipeg, MB 00 R2C3T4

Company phone : 204-224-6706

Population :

Number of potentially involved : 219

Estimated percentage with defect : NR

Vehicle Information :

Vehicle 1 : 2021-2023 New Flyer XE35, XE40, XE60

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : NR

Descriptive Information : The recall population was determined based on the specific type of ESS used.

Product difference will be determined when the remedy is defined.

Affected models and MY:

2021 XE35 - 8

2022 XE35 - 28

2021 XE40 - 71

2022 XE40 - 83

2023 XE40 - 3

2021 XE60 - 24

2022 XE60 - 2

Production Dates : MAR 31, 2021 - FEB 13, 2023

VIN Range 1 : Begin : NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : Buses in the recall population may allow liquid accumulation in the ESS unit that may not be detected.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If a leak occurs inside of an ESS and is uncorrected, liquid can accumulate, leading to an electrical short, increasing the risk of a fire.

Description of the Cause : Root-cause is unknown at this time. As inspections progress, New Flyer will analyze any ESS with liquid present and address.

Identification of Any Warning that can Occur : If the bus is on, warning lights on the dash would indicate an issue with a high voltage isolation fault.

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 :

July, 2022, An electric bus at a customer's site was reported with a no-start condition. Prior to arrival of our Service technician, the lower rear battery enclosure was reported to be smoking, and the bus was moved outside. Ultimately, a thermal event with runaway occurred on July 27, 2022. August through October, 2022: investigation continues while reviewing data from the bus, as well as from other electric buses. The event bus's rear battery enclosures (upper and lower) were removed, quarantined, and scheduled for thorough teardown and review with multiple parties. The review of enclosure was inconclusive due to extent of damage, but internal markings indicated possible fluid collection inside the lower enclosure. November, 2022 through January, 2023: Testing and validation continued with our Service and Engineering teams.

January 18, 2023, An electric bus at a customer's site was reported with a no-start condition, and reported the lower, rear battery enclosure smoking, and the bus was moved outside. Upon our Service technician's arrival, no smoke was evident, thermal imaging showed no measurable elevation in temperature of the suspect enclosure and remained steady throughout the day. Both rear enclosures were removed from the bus and placed in a secure location. The enclosure was reviewed at the customers site the following week. Physical inspection showed internal markings that indicated possible fluid collection inside the lower enclosure. January 30th through February 8th, data analysis continues, and physical bus inspections occur. Two other enclosures were found among the buses on-site with liquid inside.

As the symptoms indicate similarity between the events, and finding of liquid, these were deemed sufficient for

formal review on February 10th, and a special Safety Committee meeting was scheduled for February 13th. The latter meeting resulted in a recall determination.

Description of Remedy :

Description of Remedy Program : The remedy is currently being determined. In the interim, buses in the recall population will be inspected for liquid in the ESS units and addressed accordingly.

If customers have costs associated with this recall, reimbursement will occur through New Flyer's normal warranty process.

How Remedy Component Differs from Recalled Component : The remedy is currently being determined.

Identify How/When Recall Condition was Corrected in Production : The remedy is currently being determined. Shipments of affected buses were halted.

Recall Schedule :

Description of Recall Schedule : Notifications will be issued soon after approval of the Interim Draft letter.

A final customer notification letter will be drafted and sent once the remedy is defined and the letter is approved.

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

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

* NR - Not Reported