

Part 573 Safety Recall Report

24V-056

Manufacturer Name : New Flyer of America, Inc.

Submission Date : FEB 29, 2024

NHTSA Recall No. : 24V-056

Manufacturer Recall No. : R24-02



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 : 337

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2021-2023 New Flyer XE35

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : NR

Descriptive Information : Recall population is determined by specific PNs which included a rubber washer as part of the ESS drain assembly.

Those vehicles not included did not have the rubber washer applied to the drain.

Production Dates : JUL 29, 2021 - JAN 14, 2024

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 2 : 2023-2024 New Flyer XHE40

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Recall population is determined by specific PNs which included a rubber washer as part of the ESS drain assembly.

Those vehicles not included did not have the rubber washer applied to the drain.

Production Dates : SEP 05, 2023 - DEC 22, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 3 : 2021-2024 New Flyer XE60

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : NR

Descriptive Information : Recall population is determined by specific PNs which included a rubber washer as part of the ESS drain assembly.

Those vehicles not included did not have the rubber washer applied to the drain.

Production Dates : APR 02, 2021 - JAN 23, 2024

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

Vehicle 4 : 2021-2023 New Flyer XE40

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Recall population is determined by specific PNs which included a rubber washer as part of the ESS drain assembly.

Those vehicles not included did not have the rubber washer applied to the drain.

Production Dates : APR 27, 2021 - DEC 29, 2023

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

Description of Defect :

Description of the Defect : ESS (Energy Storage System) drain valve assemblies with a rubber washer included have a delayed activation, which could allow liquid to accumulate within the ESS assembly if a leak occurs.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Delayed activation of a drain valve could allow liquid accumulation to reach a level of causing isolation faults. If left unchecked electrical shorting may occur.

Electrical shorting increases the risk of a fire.

Description of the Cause : NR

Identification of Any Warning that can Occur : For buses regularly in-service, warnings would be noticed with a low coolant warning on the instrument cluster or at the service/charging area indicating low coolant in the BTMS (Battery Thermal Management System). If a low coolant indication is noticed, operators must locate the cause of the condition before adding coolant.

Involved Components :

Component Name 1 : ASSY-DRAIN CARTRIDGE

Component Description : ESS drain valve assembly

Component Part Number : 1044209

Component Name 2 : ASSY-DRAIN CARTRIDGE REWORKED

Component Description : ESS drain valve assembly

Component Part Number : 1050112

Supplier Identification :

Component Manufacturer

Name : New Flyer of America

Address : 106 National Drive
Anniston Alabama 36201

Country : United States

Chronology :

September 2023, a drain valve for the ESS assembly was released which had a washer added to the face of the "bobbin" (internal component which reacts to liquid exposure). This was added to inhibit nuisance activation of the drain valve during times of high humidity and temperature.

December 2023, testing was being performed on an ESS assembly to validate liquid level calculations vs physical testing prior to drain valve activation. This testing indicated a less than optimal activation time of some of the drain valves.

December 2023/January 2024 testing and analysis continued on the delayed activation experienced from the drain valve and was ultimately determined the washer added to inhibit nuisance activation was impeding the bobbin from full function within a reasonable timeframe.

This issue was reviewed by the Vehicle Safety Committee during a special meeting on January 25, 2024, where the need for a recall was concurred, culminating in this 573 filing.

Description of Remedy :

Description of Remedy Program : New Flyer will remove the rubber washer from affected drain valves and identify those corrected in the field with a specific mark on the drain valve housing, free of charge.

If a customer prefers to perform this work, New Flyer will provide the remedy instructions free of charge, and labor can be submitted for reimbursement through New Flyer's warranty system.

Drain valves on affected vehicles would be covered under New Flyer's warranty. If any were replaced by customers reimbursement would be through the normal warranty filing process.

New Flyer has received no warranty claims, field reports or accident/injury reports associated with this condition.

How Remedy Component Differs from Recalled Component : The remedied drain valves will not have the rubber washer installed.

Identify How/When Recall Condition was Corrected in Production : Production ceased shipment and started removing the rubber washer from affected buses. Any buses in the field awaiting delivery were also held by New Flyer until the remedy was applied.

Recall Schedule :

Description of Recall Schedule : New Flyer does not use a dealer network; dates for dealer notification are aligned with Owner Notification dates.

Planned Dealer Notification Date : MAR 15, 2024 - MAR 15, 2024

Planned Owner Notification Date : MAR 15, 2024 - MAR 15, 2024

* NR - Not Reported