Part 573 Safety Recall Report 23V-243

Manufacturer Name : New Flyer of America, Inc.
Submission Date : APR 20, 2023
NHTSA Recall No. : 23V-243
Manufacturer Recall No. : NR

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 : 30
Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2023-2023 New Flyer XD60, XDE60
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : NR
Descriptive Information : Recall population was determined based on a specific PLC module used on 60' articulated buses. (Details in chronology.) Other buses without this specific module are not included.
Production Dates : DEC 01, 2022 - JAN 31, 2023
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Description of Defect :

Description of the Defect : Under certain hard braking application, the ABS module may lose power input, causing the ABS system to become inactive.
FMVSS 1 : NR
FMVSS 2 : 121 - Air brake systems
Description of the Safety Risk : Under hard braking applications, with most/all of the ABS valves active, or active for an extended period of time, the ABS module may lose power input, rendering the ABS system inoperative.

An inoperative ABS system increases the risk of a crash.
Description of the Cause : A new PLC module was used and was wired with an insufficient current output to the ABS module.
Identification of Any Warning that can Occur : Audibly and/or feeling the ABS active would precede the event.

Involved Components :

Component Name 1 :	MODULE-CM 3033
Component Description :	NR
Component Part Number :	937972

Supplier Identification :

Component Manufacturer

Name :	Parker Hannifin
Address :	Electronic Motion & Controls Division 1305 Clarence Ave Winnipeg, MB Foreign States R3T 1T4
Country :	Canada

Chronology :

-Week of March 13, 2023 – one of our manufacturing plants raised an issue with engineering about an ABS, MIL, and STOP SYSTEM lamp illuminating during an extended multi-wheel ABS activation during ice/snow brake testing
-Engineering began investigating and determined the likely cause was an ABS module dropping out. The MIL/ STOP SYSTEM lamps illuminated due to loss of communication with the ABS system.
-Engineering determined the PLC module controlling the ABS had insufficient current output to maintain an extended or numerous activation of multiple ABS valves simultaneously. (Note this was a new PLC module released due to the worldwide shortages of microprocessor chips.) The issue was corrected on the order that first displayed the condition.
-Week of March 20, 2023 – engineering began checking other installations and determined there were others configured similarly, and due to this began a full “sweep” of installations, releasing corrections as needed.
-March 22, 2023 – engineering completed the sweep of releases and determined the suspect population. Additionally, we received confirmation from the ABS module supplier that this lower output from the PLC module would affect only buses with more than 4 ABS sensors/valves (articulated [60’] buses only)
-March 22/23, 2023 – discussions were held with engineering and Customer Care to determine if any buses had left the manufacturing plant(s) for delivery with the configuration
-March 24/27, 2023 – we confirmed that a quantity of buses had shipped, and the issue was sent to Vehicle Safety Committee for review.
-March 31, 2023 – issue was reviewed with the Vehicle Safety Committee where a recall determination was made.
-April 18, 2023 - As NF Service advised all buses were corrected in the field, New Flyer does not plan to issue a recall letter for this action.

Description of Remedy :

Description of Remedy Program :	Buses are being reworked by New Flyer by re-pinning and reprogramming the module. If any customer does this with New Flyer supplied parts and programming, we will reimburse through our normal Warranty Process.
How Remedy Component Differs from Recalled Component :	Program rev-level
Identify How/When Recall Condition was Corrected in Production :	Was corrected in production with the same re-pinning and program changes during the week of March 27, 2023.

Recall Schedule :

Description of Recall Schedule :	Notifications are planned for the beginning of May, 2023, after the draft owner notification is reviewed by NHTSA. Planned submission of the draft letter is the week of April 17th.
Planned Dealer Notification Date :	MAY 01, 2023 - MAY 31, 2023
Planned Owner Notification Date :	MAY 01, 2023 - MAY 31, 2023

* NR - Not Reported