

Part 573 Safety Recall Report

24V-558

Manufacturer Name : Nova Bus (US) Inc.

Submission Date : AUG 14, 2024

NHTSA Recall No. : 24V-558

Manufacturer Recall No. : CR5619



Manufacturer Information :

Manufacturer Name : Nova Bus (US) Inc.

Address : 260 Banker Road
PLATTSBURGH NY 12901

Company phone : 450-472-6410

Population :

Number of potentially involved : 534

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2016-2019 Nova Bus LFS

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : The recall population is defined by vehicles built from 10/13/2016 through 02/06/2019 manufactured with a ZF drive axle equipped with Knorr-Bremse brake chambers K038830N00.

There are 455 Nova LFS vehicles MY 2016 through 2019 impacted.

Production Dates : OCT 13, 2016 - FEB 06, 2019

VIN Range 1 : Begin : 4RKYL82J8G9775546 End : 4RKYL82J3K9777052 Not sequential

Vehicle 2 : 2016-2019 Nova Bus LFS Artic

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : The recall population is defined by vehicles built from 10/03/2016 through 12/20/2018 assembled with Knorr-Bremse brake chambers K038830N00.

There are 79 Nova LFS Artic vehicles MY 2016 through 2019 impacted.

Production Dates : OCT 03, 2016 - DEC 20, 2018

VIN Range 1 : Begin : 4RKYS92J7G9775532 End : 4RKYL82J3K9777052 Not sequential

Description of Defect :

Description of the Defect : The subject vehicles may have been manufactured with defective brake chamber on the rear axle. The seal on the emergency/brake side of the brake chamber may be leaking.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A brake chamber leak could lead to brakes being applied unwantedly. An unwanted application of the brakes may cause the brake components to overheat, produce smoke and could lead to a wheel end fire. An unwanted brake application may also increase the risk of a crash.

Description of the Cause : Brake chamber seal design

Identification of Any Warning that can Occur : There is no warning prior to occurrence.

Involved Components :

Component Name 1 : Brake Chambers

Component Description : Knorr-Bresme 20/22-57 Brake chamber

Component Part Number : K038830N00

Supplier Identification :

Component Manufacturer

Name : ZF North America

Address : 12001 Tech Center Drive
Livonia Michigan 48150

Country : United States

Chronology :

October 31, 2019: Nova Bus was informed by customers of potential dragging brakes on vehicles.

November 4, 2019: Nova Bus opened an internal investigation.

September 25, 2020: Product Safety Evaluation Committee evaluates the information and, with a fair number of occurrences and only low severity consequences observed (brake wear, smoke, no wheel end fire), the Committee decides to close the issue as it was not considered a Potential Safety Related Issue at the time.

February 19, 2021: Root cause determination is provided by supplier.

November 18, 2021: Nova Bus released a Technical Service Bulletin to address the issue with the impacted customers.

March 20, 2024: Based on new information and discussions with NHTSA, Nova Bus performed additional testing to further investigate customer safety effect and detectability of issue.

June 14, 2024: Nova Bus reopened a formal potential safety related issue investigation based on test results.

July 11, 2024: Product Safety Evaluation Committee evaluates and raises to Product Safety Committee.

July 19, 2024: Product Safety Committee determination of product defect.

July 25, 2024: Nova Bus files 573 with NHTSA that a voluntary recall will be released to address the safety-related defect.

There have been no accidents, injuries and no fire events reported related to this defect. There have been 8 warranty claims related to this defect. The warranty claim were received as follow: December 2018: 3, January 2019: 1, May 2019: 1, November 2019: 1, December 2019: 2. Total of 8 claims.

Description of Remedy :

Description of Remedy Program : Owners will be notified. Vehicles will be recalled. Remedy program will be to inspect vehicles and replace the defective brake chamber. All costs associated with this corrective measure will be covered by Nova Bus. Pre-notification remedies will be addressed using the Nova Bus general reimbursement plan on file with NHTSA.

How Remedy Component Differs from Recalled Component : Brake chambers K038830N00 will be replaced by K234368N00.

Identify How/When Recall Condition was Corrected in Production : Vehicles manufactured after 02/06/2019 were assembled with defect free components.

Recall Schedule :

Description of Recall Schedule : Note: Nova Bus does not have a dealer network and the dates entered for the planned dealer notification begin/end date are only to avoid NHTSA Recall Portal error while submitting the recall report.
Owner notification will begin on or before September 22nd, 2024

Planned Dealer Notification Date : AUG 01, 2024 - AUG 01, 2024

Planned Owner Notification Date : SEP 22, 2024 - SEP 22, 2024

* NR - Not Reported