

# Part 573 Safety Recall Report

# 18V-299

**Manufacturer Name :** Nova Bus (US) Inc.

**Submission Date :** OCT 04, 2023

**NHTSA Recall No. :** 18V-299

**Manufacturer Recall No. :** CR4079



## 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 :** 1,058

**Estimated percentage with defect :** 40 %

## Vehicle Information :

**Vehicle 1 :** 2015-2017 Nova Bus LFS, LFS Artic

**Vehicle Type :** BUSES, MEDIUM & HEAVY VEHICLES

**Body Style :** OTHER

**Power Train :** DIESEL

**Descriptive Information :** Certain 2015, 2016, and 2017 LFS and LFS Artic model vehicles manufactured from January 2015 to December 2016 with certain ZF axles incorporating radial air disk brake calipers manufactured by Knorr-Bremse.

ZF has provided Nova Bus a list of the axle serial numbers that contain suspect brake calipers. From production records we were able to identify the VINs that have these axles.

**Production Dates :** MAR 12, 2015 - SEP 14, 2017

**VIN Range 1 : Begin :**

NR

**End :** NR

Not sequential

## Description of Defect :

**Description of the Defect :** Improper surface roughness of a guide pin in radial brake calipers supplied by Knorr-Bremse may cause increased friction, creating noise and, if undetected, potentially leading to breaking of the brake carriage guide pin support bolt, uneven brake pad wear, tapered wear of the brake pads, and brake pad contact with the surface of the wheel.

**FMVSS 1 :** NR

**FMVSS 2 :** NR

**Description of the Safety Risk :** If undetected, the vehicle could suddenly lose tire pressure or brake function, increasing the risk of collision. The vehicle may also experience reduced parking brake functionality.

**Description of the Cause :** Materials non-conformance

Identification of Any Warning that can Occur : Noise may be audible from the location of the axle.

## Involved Components :

Component Name 1 : NR

Component Description : NR

Component Part Number : NR

## Supplier Identification :

### Component Manufacturer

Name : ZF North America, Inc.

Address : 15811 Centennial Drive  
Northville Michigan 48168

Country : United States

## Chronology :

August 30, 2017 Nova Bus Service department notifies ZF of a report involving a Canadian vehicle with potential brake caliper pin issue. Nova Bus asks ZF to investigate.

November 10, 2017 Nova Bus contacts ZF to follow-up on investigation

February 19, 2018 ZF and Nova Bus meet to discuss and share information/ findings

February 27, 2018 Nova Bus Service department notifies Nova Bus Legal of potential safety-related defect. Investigation opened

March 5, 2018 Nova Bus Legal department raises case as a potential safety-related defect to Volvo Group North America Product Safety Working Group.

April 5, 2018 Nova Bus receives report with a new failure mode (i.e. guide pin breaks and allows caliper to rotate and damage the wheel) from a customer in Canada. Nova Bus notifies ZF. ZF deploys team to investigate.

April 19, 2018 Nova Bus receives ZF findings.

April 23, 2018 Meeting between representatives of ZF, Nova Bus, and Volvo Group North America's VP of

## Regulatory Affairs

April 23, 2018 Volvo Group North America's VP Regulatory Affairs sends an email to ZF sharing Volvo's opinion- that the issue is a potential safety-related defect.

April 27, 2018 ZF provides Nova Bus a copy of the motor vehicle equipment 573 defect report

May 3, 2018 ZF meets with Nova Bus to share information on the voluntary recall

May 8, 2018 Nova Bus submits 573 Report

October 3, 2023 Nova Bus amends the Remedy section.

## Description of Remedy :

**Description of Remedy Program :** Nova Bus provided a service document based on ZF instructions to inspect and replace the brake calipers for the affected vehicle population. All costs associated with this inspection and replacement 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 :** The surface is according to specification, which allows the guide pin to float according to design.

ZF axle models provided to Nova Bus are AV-132II/AV133 Drive axle and AVN-132 center axle.

**Identify How/When Recall Condition was Corrected in Production :** Based on the VIN's that were determined by the serial numbers, the clean point is January 2017.

## Recall Schedule :

**Description of Recall Schedule :** Nova Bus will conduct a voluntary safety recall. Nova Bus sales direct to the customer, so there are no dealers. Hence there will be no dealer notification.

Owner Notification letters will be mailed within 60 days of this notification.

**Planned Dealer Notification Date :** JUL 06, 2018 - JUL 06, 2018

**Planned Owner Notification Date :** JUL 06, 2018 - JUL 06, 2018

\* NR - Not Reported