

# Part 573 Safety Recall Report

# 20V-457

**Manufacturer Name :** Nova Bus**Submission Date :** AUG 05, 2020**NHTSA Recall No. :** 20V-457**Manufacturer Recall No. :** CR4943**Manufacturer Information :****Population :**

Manufacturer Name : Nova Bus

Number of potentially involved : 34

Address : 1000 Industriel Blvd  
Saint-Eustache Quebec, Canada 00 JR7  
5A5

Estimated percentage with defect : 1 %

Company phone : 450-472-6410

**Vehicle Information :**

Vehicle 1 : 2016-2016 Nova Bus LFS

Vehicle Type : BUSES, MEDIUM &amp; HEAVY VEHICLES

Body Style : OTHER

Power Train : HYBRID ELECTRIC

**Descriptive Information :** According to Allison Transmission Inc. notification letter received: "We are writing to advise you that Allison Transmission Inc. (ATI) has initiated a new voluntary safety recall to expand the scope of a previously announced campaign, NHTSA Recall No. 18E085, to address an issue with the pressure switch (P/N 29506484) used in a specific population of H 40/50 EP Drive Units. The affected Drive Units that are being added to this campaign are within the serial number range 7110008473 through 7110008854. Due to an out-of-specification material condition at the pressure switch supplier, the plastic molding used in the switch assembly may fracture."

Production Dates : JUL 06, 2016 - JUL 21, 2016

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

Vehicle 2 : 2016-2016 Nova Bus LFS Artic

Vehicle Type : BUSES, MEDIUM &amp; HEAVY VEHICLES

Body Style : OTHER

Power Train : HYBRID ELECTRIC

**Descriptive Information :** According to Allison Transmission Inc. notification letter received: "We are writing to advise you that Allison Transmission Inc. (ATI) has initiated a new voluntary safety recall to expand the scope of a previously announced campaign, NHTSA Recall No. 18E085, to address an issue with the pressure switch (P/N 29506484) used in a specific population of H 40/50 EP Drive Units. The affected Drive Units that are being added to this campaign are within the serial number range 7110008473 through 7110008854. Due to an out-of-specification material condition at the pressure switch supplier, the plastic molding used in the switch assembly may fracture."

Production Dates : MAR 02, 2016 - MAR 31, 2016

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

**Description of Defect :**

Description of the Defect : According to Allison Transmission Inc. information received: "Due to an out-of-specification material condition at the pressure switch supplier, the plastic molding (Ultem 2310) used in the switch assembly may fracture. In addition, on some units, machining debris may contaminate the valve body internal passages affecting valve operation. Either condition may result in a failure of the pressure switch in either an open or closed state."

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : According to Allison Transmission Inc. information received: "If the pressure switch fails in the closed position, the failure will trigger a diagnostic trouble code. In some circumstances, switch failures in the closed position can potentially disable propulsion at any time during a drive cycle without the ability to regain propulsion. At least one transit bus customer reported experiencing loss of propulsion while traveling through an intersection. In such circumstances, there is an increased risk of a vehicle accident or risk related to offloading passengers in the roadway."

Description of the Cause : According to Allison Transmission Inc. information received: "The recalled pressure switch assembly units were manufactured by a third party with plastic molding (Ultem 2310) in the switch assembly made of 100% recycled, regrind material (rather than virgin material as specified in Allison Transmission Inc.'s design print) that resulted in a weak assembly."

Identification of Any Warning that can Occur : According to Allison Transmission Inc. information received: "In some circumstances, shortly before the failure, a malfunction indicator lamp (MIL) may be triggered."

**Involved Components :**

Component Name 1 : C1/C2 Pressure Switch

Component Description : Pressure Switch

Component Part Number : 29506484

**Supplier Identification :****Component Manufacturer**

Name : Honeywell Sensing and Control

Address : Av Parque Industrial

Ciudad Juarez FOREIGN STATES 32630

Country : Mexico

## Chronology :

2020-07-31 Nova Bus receives from Allison Transmission Inc. (ATI) a manufacturer notification communication by e-mail related to the equipment recall 20E049.

2020-08-03 Nova Bus confirms the vehicle affected population based on the drive unit serial numbers provided by ATI.

2020-08-05 Nova Bus informs NHTSA that a voluntary vehicle recall will be released to address the safety related defect.

## Description of Remedy :

**Description of Remedy Program :** According to Allison Transmission Inc. information received: "ATI will replace the C1 and C2 pressure switches in the affected drive units. Pursuant to 49 CFR 577.11 (e), ATI requests that it be exempt from providing notification of a reimbursement plan. Pre-notification product failures would have been addressed under the terms of the manufacturer's warranty or goodwill"

**How Remedy Component Differs from Recalled Component :** According to Allison Transmission Inc. information received: "The plastic mold used for the defective switches (P/N 29506484) used 100% recycled, regrind materials. The replacement switches use 100% virgin resin as required in the design print."

**Identify How/When Recall Condition was Corrected in Production :** According to Allison Transmission Inc. information received: "Units produced on and after June 5, 2018 used pressure switches manufactured with 100% virgin resin materials."

## Recall Schedule :

**Description of Recall Schedule :** \*Note Nova Bus does not have a dealer network and the dates entered for the dealer notification are to prevent NHTSA form error when submitting the vehicle report.

**Planned Dealer Notification Date :** SEP 18, 2020 - SEP 18, 2020

**Planned Owner Notification Date :** SEP 18, 2020 - SEP 18, 2020

\* NR - Not Reported