

Part 573 Safety Recall Report

22V-869

Manufacturer Name : Navistar, Inc.**Submission Date :** NOV 23, 2022**NHTSA Recall No. :** 22V-869**Manufacturer Recall No. :** 22524**Manufacturer Information :**

Manufacturer Name : Navistar, Inc.

Address : 2701 Navistar Drive

Lisle IL 60532

Company phone : 331-332-1590

Population :

Number of potentially involved : 25,822

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2023-2023 IC 1300 FBC

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information :

- The suspect population is identified by models built with non-conforming hex flange lock nuts that did not fail at time of vehicle assembly.
- The inclusive dates of manufacture were determined by when Navistar began use of non-conforming hex flange lock nuts and when the issue was corrected in production.
- The vehicles in the suspect population were built with non-conforming hex flange lock nuts and all other similar vehicles not in the suspect population were built with conforming hex flange lock nuts.

There are 103 1300 FBC commercial buses in the suspect population

Production Dates : MAR 04, 2022 - MAR 28, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2023-2023 IC CE

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : • The suspect population is identified by models built with non-conforming hex flange lock nuts that did not fail at time of vehicle assembly.

- The inclusive dates of manufacture were determined by when Navistar began use of non-conforming hex flange lock nuts and when the issue was corrected in production.
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There are 22 CE commercial buses in the suspect population

Production Dates : MAR 04, 2022 - MAR 28, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 3 : 2021-2022 International CV

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

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- The inclusive dates of manufacture were determined by when Navistar began use of non-conforming hex flange lock nuts and when the issue was corrected in production.
- The vehicles in the suspect population were built with non-conforming hex flange lock nuts and all other similar vehicles not in the suspect population were built with conforming hex flange lock nuts.

There are 1,936 CV series trucks in the suspect population

Production Dates : JAN 18, 2022 - AUG 12, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 4 : 2023-2023 International MV

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : HYBRID ELECTRIC

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- The inclusive dates of manufacture were determined by when Navistar began use of non-conforming hex flange lock nuts and when the issue was corrected in production.
- The vehicles in the suspect population were built with non-conforming hex flange lock nuts and all other similar vehicles not in the suspect population were built with conforming hex flange lock nuts.

There are 52 electric MV series trucks in the suspect population

Production Dates : MAR 24, 2022 - AUG 16, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 5 : 2022-2023 International HV

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : • The suspect population is identified by models built with non-conforming hex flange lock nuts that did not fail at time of vehicle assembly.

- The inclusive dates of manufacture were determined by when Navistar began use of non-conforming hex flange lock nuts and when the issue was corrected in production.
- The vehicles in the suspect population were built with non-conforming hex flange lock nuts and all other similar vehicles not in the suspect population were built with conforming hex flange lock nuts.

There are 1,419 HV series trucks in the suspect population

Production Dates : JAN 18, 2022 - AUG 16, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 6 : 2023-2023 International HX

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : • The suspect population is identified by models built with non-conforming hex flange lock nuts that did not fail at time of vehicle assembly.

- The inclusive dates of manufacture were determined by when Navistar began use of non-conforming hex flange lock nuts and when the issue was corrected in production.
- The vehicles in the suspect population were built with non-conforming hex flange lock nuts and all other similar vehicles not in the suspect population were built with conforming hex flange lock nuts.

There are 479 HX series trucks in the suspect population

Production Dates : FEB 13, 2022 - AUG 16, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 7 : 2023-2023 International LoneStar

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : • The suspect population is identified by models built with non-conforming hex flange lock nuts that did not fail at time of vehicle assembly.

- The inclusive dates of manufacture were determined by when Navistar began use of non-conforming hex flange lock nuts and when the issue was corrected in production.
- The vehicles in the suspect population were built with non-conforming hex flange lock nuts and all other similar vehicles not in the suspect population were built with conforming hex flange lock nuts.

There are 118 LoneStar series trucks in the suspect population

Production Dates : FEB 13, 2022 - AUG 16, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 8 : 2023-2023 International LT

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : • The suspect population is identified by models built with non-conforming hex flange lock nuts that did not fail at time of vehicle assembly.

- The inclusive dates of manufacture were determined by when Navistar began use of non-conforming hex flange lock nuts and when the issue was corrected in production.
- The vehicles in the suspect population were built with non-conforming hex flange lock nuts and all other similar vehicles not in the suspect population were built with conforming hex flange lock nuts.

There are 10,966 LT series trucks in the suspect population

Production Dates : FEB 13, 2022 - AUG 16, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 9 : 2023-2023 International MV

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : • The suspect population is identified by models built with non-conforming hex flange lock nuts that did not fail at time of vehicle assembly.

- The inclusive dates of manufacture were determined by when Navistar began use of non-conforming hex flange lock nuts and when the issue was corrected in production.
- The vehicles in the suspect population were built with non-conforming hex flange lock nuts and all other similar vehicles not in the suspect population were built with conforming hex flange lock nuts.

There are 9,135 MV Diesel series trucks in the suspect population

Production Dates : JAN 18, 2022 - AUG 16, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 10 : 2023-2023 International MV

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : CNG/LPG

Descriptive Information : • The suspect population is identified by models built with non-conforming hex flange lock nuts that did not fail at time of vehicle assembly.

- The inclusive dates of manufacture were determined by when Navistar began use of non-conforming hex flange lock nuts and when the issue was corrected in production.
- The vehicles in the suspect population were built with non-conforming hex flange lock nuts and all other similar vehicles not in the suspect population were built with conforming hex flange lock nuts.

There are 95 MV LPG series trucks in the suspect population

Production Dates : FEB 14, 2022 - AUG 12, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 11 : 2023-2023 IC RE

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : • The suspect population is identified by models built with non-conforming hex flange lock nuts that did not fail at time of vehicle assembly.

- The inclusive dates of manufacture were determined by when Navistar began use of non-conforming hex flange lock nuts and when the issue was corrected in production.
- The vehicles in the suspect population were built with non-conforming hex flange lock nuts and all other similar vehicles not in the suspect population were built with conforming hex flange lock nuts.

There are 26 RE commercial buses in the suspect population

Production Dates : MAY 12, 2022 - AUG 10, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 12 : 2023-2023 International RH
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : DIESEL

Descriptive Information : • The suspect population is identified by models built with non-conforming hex flange lock nuts that did not fail at time of vehicle assembly.
• The inclusive dates of manufacture were determined by when Navistar began use of non-conforming hex flange lock nuts and when the issue was corrected in production.
• The vehicles in the suspect population were built with non-conforming hex flange lock nuts and all other similar vehicles not in the suspect population were built with conforming hex flange lock nuts.
There are 1,361 RH series trucks in the suspect population

Production Dates : FEB 13, 2022 - AUG 16, 2022

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

Vehicle 13 : 2023-2023 IC TC
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : DIESEL

Descriptive Information : • The suspect population is identified by models built with non-conforming hex flange lock nuts that did not fail at time of vehicle assembly.
• The inclusive dates of manufacture were determined by when Navistar began use of non-conforming hex flange lock nuts and when the issue was corrected in production.
• The vehicles in the suspect population were built with non-conforming hex flange lock nuts and all other similar vehicles not in the suspect population were built with conforming hex flange lock nuts.
There are 110 TC commercial buses in the suspect population

Production Dates : JAN 18, 2022 - JUN 10, 2022

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

Description of Defect :

Description of the Defect : • A specific hex flange lock nut (P/N 416743C2) was not properly formed and heat treated to Navistar specification. This lock nut is used in several joint locations on a chassis:

- o pitman arm pinch bolt joints
- o steering gear mounting joints
- o front axle U-bolt joints
- o front and rear spring eyes
- o certain rear spring tie

• All vehicles contain at least one suspect bolted joint, but due to vehicle configuration, not all vehicles will require all joints to be repaired.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Improperly manufactured nuts that did not immediately fail during vehicle assembly can result in a loss of joint tension as the vehicle ages. This nut is used mainly in suspension (front/rear) and steering gear joints. Loss of tension in these joints may affect vehicle handling which could contribute to a vehicle crash.

Description of the Cause : A tier 3 supplier was found to not have adequate heat treat furnace controls to ensure consistent nut surface hardness. In addition, this supplier's tooling was found to be worn, contributing to mis-formed threads.

Identification of Any Warning that can Occur : A general 'loose' feeling when driving.

Involved Components :

Component Name 1 : 3/4" - 16 hex flange lock nut

Component Description : Hex flange lock nut

Component Part Number : International P/N 416743C2

Supplier Identification :

Component Manufacturer

Name : Facil NA

Address : 2242 Pinnacle Pkwy #100
Twinsburg Ohio 44087

Country : United States

Chronology :

- 08/16/2022 - Navistar Supplier Quality communicates the concerns of certain hex flange lock nuts stripping at time of vehicle assembly.
- 08/26/2022 - Navistar quarantines all vehicles at all assembly plants.
- 09/14/2022 - Navistar Supplier Quality and Compliance meet with Engineering to discuss the issue and Engineering initiates investigation to determine full use of certain hex flange lock nuts.
- 09/22/2022 through 11/02/2022 - Navistar performs multiple tests to certain hex flange lock nuts returned to Navistar.
- 11/04/2022 - Navistar initiates risk assessment on over 300 features.
- 11/16/2022 - Navistar completes its risk assessment and determines the impact to all International

and IC Bus vehicles

- 11/17/2022 – Navistar finalizes the suspect population.
- 11/18/2022 – Navistar declares a Safety Recall. As of this time no warranty claims or field failures have occurred in the suspect population.

Description of Remedy :

Description of Remedy Program : • The remedy will involve replacing all suspect hex flange lock nuts with hex flange lock nuts made to their design specifications.
• Navistar’s plan for reimbursement of pre-notification remedies, on file with NHTSA and dated 05/06/2022, applies and reimbursement instructions will be included in the customer notification.

How Remedy Component Differs from Recalled Component : The remedy hex flange lock nuts are made to the specified form and surface hardness where the recalled hex flange lock nuts were not.

Identify How/When Recall Condition was Corrected in Production : 08/26/2022 – Navistar quarantines all vehicles at all plants and begins use of hex flange lock nuts manufactured to their specified design values.

Recall Schedule :

Description of Recall Schedule : It is estimated that the Customer and Dealer notification letters will be mailed by 01/20/2023.

Planned Dealer Notification Date : JAN 20, 2023 - JAN 20, 2023

Planned Owner Notification Date : JAN 20, 2023 - JAN 20, 2023

* NR - Not Reported