

Part 573 Safety Recall Report

22V-428

Manufacturer Name : Navistar, Inc.**Submission Date :** JUN 16, 2022**NHTSA Recall No. :** 22V-428**Manufacturer Recall No. :** 22513**Manufacturer Information :**

Manufacturer Name : Navistar, Inc.
 Address : 2701 Navistar Drive
 Lisle IL 60532
 Company phone : 331-332-1590

Population :

Number of potentially involved : 33,655
 Estimated percentage with defect : 1 %

Vehicle Information :**Vehicle 1 :** 2022-2023 International HX

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information :

- The suspect population is identified by models equipped with R. H. Sheppard HD94E, M100P, M110P, HD94P, XD120P, MD83P, SD110P, M83P, M90P, and M80P model steering gears. The inclusive dates of manufacture were determined by when Navistar manufacturing received steering gears with suspect serial numbers through the time the issue was contained in manufacturing.
- The vehicles in the suspect population may have been built with steering gears with suspect serial numbers and all other similar vehicles were not. There are 1,730 HX series trucks in the suspect population

Production Dates : JUN 01, 2021 - JUN 07, 2022

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

Vehicle 2 : 2022-2022 International WorkStar

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information :

- The suspect population is identified by models equipped with R. H. Sheppard HD94E, M100P, M110P, HD94P, XD120P, MD83P, SD110P, M83P, M90P, and M80P model steering gears. The inclusive dates of manufacture were determined by when Navistar manufacturing received steering gears with suspect serial numbers through the time the issue was contained in manufacturing.
- The vehicles in the suspect population may have been built with steering gears with suspect serial numbers and all other similar vehicles were not. There is one WorkStar in the suspect population

Production Dates : JUN 02, 2021 - JUN 02, 2021

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

Vehicle 3 : 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 equipped with R. H. Sheppard HD94E, M100P, M110P, HD94P, XD120P, MD83P, SD110P, M83P, M90P, and M80P model steering gears. The inclusive dates of manufacture were determined by when Navistar manufacturing received steering gears with suspect serial numbers through the time the issue was contained in manufacturing.

- The vehicles in the suspect population may have been built with steering gears with suspect serial numbers and all other similar vehicles were not. There are 4,850 HV series trucks in the suspect population.

Production Dates : JUN 01, 2021 - JUN 07, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 4 : 2022-2023 International LoneStar

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : • The suspect population is identified by models equipped with R. H. Sheppard HD94E, M100P, M110P, HD94P, XD120P, MD83P, SD110P, M83P, M90P, and M80P model steering gears. The inclusive dates of manufacture were determined by when Navistar manufacturing received steering gears with suspect serial numbers through the time the issue was contained in manufacturing.

- The vehicles in the suspect population may have been built with steering gears with suspect serial numbers and all other similar vehicles were not. There are 279 LoneStar series trucks in the suspect population.

Production Dates : JUN 01, 2021 - JUN 07, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 5 : 2022-2023 International LT

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : • The suspect population is identified by models equipped with R. H. Sheppard HD94E, M100P, M110P, HD94P, XD120P, MD83P, SD110P, M83P, M90P, and M80P model steering gears. The inclusive dates of manufacture were determined by when Navistar manufacturing received steering gears with suspect serial numbers through the time the issue was contained in manufacturing.

- The vehicles in the suspect population may have been built with steering gears with suspect serial numbers and all other similar vehicles were not. There are 13,529 LT series trucks in the suspect population.

Production Dates : JUN 01, 2021 - JUN 07, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 6 : 2022-2023 International MV

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : • The suspect population is identified by models equipped with R. H. Sheppard HD94E, M100P, M110P, HD94P, XD120P, MD83P, SD110P, M83P, M90P, and M80P model steering gears. The inclusive dates of manufacture were determined by when Navistar manufacturing received steering gears with suspect serial numbers through the time the issue was contained in manufacturing.

- The vehicles in the suspect population may have been built with steering gears with suspect serial numbers and all other similar vehicles were not. There are 12,103 MV series trucks in the suspect population

Production Dates : JUN 01, 2021 - JUN 07, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 7 : 2022-2023 International RH

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : • The suspect population is identified by models equipped with R. H. Sheppard HD94E, M100P, M110P, HD94P, XD120P, MD83P, SD110P, M83P, M90P, and M80P model steering gears. The inclusive dates of manufacture were determined by when Navistar manufacturing received steering gears with suspect serial numbers through the time the issue was contained in manufacturing.

- The vehicles in the suspect population may have been built with steering gears with suspect serial numbers and all other similar vehicles were not. There are 1,098 RH series trucks in the suspect population

Production Dates : JUN 01, 2021 - JUN 07, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 8 : 2022-2023 IC TC Commercial bus

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : • The suspect population is identified by models equipped with R. H. Sheppard HD94E, M100P, M110P, HD94P, XD120P, MD83P, SD110P, M83P, M90P, and M80P model steering gears. The inclusive dates of manufacture were determined by when Navistar manufacturing received steering gears with suspect serial numbers through the time the issue was contained in manufacturing.

- The vehicles in the suspect population may have been built with steering gears with suspect serial numbers and all other similar vehicles were not. There are 65 TC commercial buses in the suspect population.

Production Dates : DEC 08, 2021 - MAY 06, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : As reported by R. H. Sheppard Co., Inc. in 22E-047, steering gears were assembled with fewer than the required number of recirculating balls which can lead to a fracture in the steering gear worm-shaft and loss of vehicle steering.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : As reported by R. H. Sheppard Co., Inc in 22E-047, a steering gear with fewer than the required number of recirculating balls may bind when loads are applied. In some cases, the balls may align on the same side of the gear's worm-shaft and concentrated loads may cause the gear's internal parts to fracture resulting in loss of vehicle steering. Loss of steering increases the likelihood of a crash.

Description of the Cause : As reported by R. H. Sheppard Co., Inc in 22E-047, an anomaly in the steering gear recirculating ball insertion operation occurred during assembly. Subsequent rework processes and inspections did not detect the missing recirculating balls.

Identification of Any Warning that can Occur : As reported by R. H. Sheppard Co., Inc in 22E-047, the internal fracture, the steering may be perceived as strained by the driver. No audible or visual warning is available.

Involved Components :

Component Name 1 : Steering gear

Component Description : Steering gear

Component Part Number : Various

Supplier Identification :**Component Manufacturer**

Name : Bendix Commercial Vehicle Systems LLC

Address : 35500 Chester Rd.
Avon Ohio 44011

Country : United States

Chronology :

- 05/23/2022 – RH Sheppard notifies Navistar they have filed a 573 report to NHTSA related to several steering gear models.
- 05/25/2022 – RH Sheppard meets with Navistar Compliance, Engineering, and Quality to determine the impact to International trucks and IC buses; determine failure mode and potential root cause.
- 06/01/2022 – Navistar Compliance and Engineering narrow the scope of vehicle configurations built with potential suspect steering gears.
- 06/02/2022 – Navistar Compliance Committee meets to discuss initial suspect population, potential root cause and failure mode. The Committee outlines next steps necessary to contain and inspect suspect vehicles and inventory at Navistar’s Parts Distribution Centers (PDCs).
- 06/08/2022 – Navistar quarantines 4,952 vehicles at their assembly plants for inspection and 85 steering gears were placed on quality hold at the PDCs.
- 06/09/2022 – Bendix provides Navistar a list of 1,590 suspect steering gear serial numbers that they believe may contain a smaller than normal number of recirculating balls.
- 06/09/2022 – Navistar Compliance Committee meets to determine final suspect population, review suspect steering gear serial numbers, potential field remedy, and declares a Safety Recall.

Description of Remedy :

- Description of Remedy Program :
- The remedy will involve replacing any steering gear found with a suspect serial number.
 - 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 steering gears were assembled with the correct number of recirculating balls where the recalled steering gears may not have been.

Identify How/When Recall Condition was Corrected in Production : 06/08/2022 – Navistar manufacturing quarantined all vehicles at our manufacturing plants and began inspections of all steering gears for suspect serial numbers. This will be updated once the inspections have been completed. Additionally, the PDCs placed a stop ship on steering gears at the PDCs and began returning them to R. H. Sheppard for inspection to be certified.

Recall Schedule :

Description of Recall Schedule : It is estimated that the Customer and Dealer notification letters will be mailed by 08/18/2022.

Planned Dealer Notification Date : AUG 18, 2022 - AUG 18, 2022

Planned Owner Notification Date : AUG 18, 2022 - AUG 18, 2022

* NR - Not Reported