

Part 573 Safety Recall Report**14V-520****Manufacturer Name :** Navistar, Inc.**Submission Date :** AUG 27,2014**NHTSA Recall No. :** 14V-520**Manufacturer Recall No. :** 14514**Manufacturer Information :**

Manufacturer Name : Navistar, Inc.

Address : 2701 Navistar Drive
Lisle IL 60532

Company phone : 331-332-1590

Population :

Number of potentially involved : 447

Estimated percentage with defect : 100

Vehicle Information :

Vehicle : 1999-2002 International 4800

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : NR

Descriptive Information : Other information necessary to describe this equipment: 4800 4X4 vehicles with a
Fabco TC-200 transfer case (feature code 013TJZ only)

Production Dates : JUN 01, 1999 - MAY 31, 2002

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

 Not sequential VINs

Description of Defect :

Description of the Defect : Navistar used the double Cardan front driveshaft as the field remedy for Navistar recall 05501 (03V-415). The centering ball and socket in a double Cardan joint could seize under certain conditions and not allow the shaft to turn in a smooth rotation resulting in possible front driveshaft separation.

Description of the Safety Risk : A seized double Cardan joint can cause either the driveline joint to fail or a non-axial rotation could result in the shaft breaking in the tube section of the shaft. This could result in eventual front driveshaft separation, or if the shaft breaks midway the front portion of the shaft could hit a part of the vehicle which could cause front axle lock up.

Description of the Cause : A double Cardan joint is designed to have articulation in the centering ball and socket to distribute the grease properly in this joint. When this on/off road vehicle is operated on a smooth road and traveling at highway speeds for extended periods of time, the grease in the centering ball and socket may move away from the contact surfaces resulting in heat build up and eventual seizing of the ball and socket. Also, if the rubber boot that protects the ball and socket joint is compromised in any way during vehicle operation it also could result in loss of grease causing the same condition.

Identification of Any Warning that can Occur : Front end vibration shortly before failure.

Supplier Identification :**Component Manufacturer**

Name : NR

Address : NR

NR

Country : NR

Chronology :

- 6/24/2014 – The Montana State Highway Patrol contacted Navistar asking for assistance to investigate a June 19, 2014 accident involving a 2002 International 4800 4x4 and a pickup truck.
- 7/01/2014 – Navistar and Montana State Highway Patrol investigate the accident scene and vehicles involved. It was noted during the inspection that the 4800 front driveshaft was a double Cardan shaft that was installed under Navistar recall 05501 (03V-415), and that the shaft had broken midway in the tube of the shaft. The front axle also had a mechanical failure on the left front axle shaft.
- 7/07/2014 – 7/21/14 - Navistar Engineering and Reliability met to try to determine the cause of the failure and subsequent accident. Based on a review of photos taken during the inspection, Navistar found that the centering ball and socket in the double Cardan joint may have failed first, which may have caused a non-axial rotation which could result in the shaft breaking in the tube section of the shaft.
- 8/15/2014 – Navistar conducts an initial vehicle search to determine suspect population.
- 8/19/2014 – Navistar completes review of warranty claims, customer complaints and field reports on the 4800 4x4 model. Five other double Cardan shaft separations were found during this review with the first occurring in 2008 and the last occurring in 2011. Review of this information indicates that the centering ball and socket in the double Cardan shaft seized. There were no injuries reported in any of these incidents.
- 8/20/2014 – Navistar finalizes suspect vehicle population.
- 8/20/2014 – Navistar declares a Safety Recall.

Description of Remedy :

Description of Remedy Program : Navistar is currently investigating a remedy and will release it at a later date. In the interim, a customer notice will be mailed directing the customer to have the front double Cardan driveshaft disconnected if the vehicle will be used on the highway.

How Remedy Component Differs from Recalled Component : •In the interim period removing the front driveshaft will prevent possible separation on the highway.
•Navistar is investigating a permanent remedy.

Identify How/When Recall Condition was Corrected in Production : •Other 4800 models without feature code 013TJZ do not have the same offset between the front differential and the t-case front output shaft.
•Also, all vehicles in the suspect population were part of Safety Recall 05501 and were retrofitted with a double Cardan front driveshaft. This is the only application where the double Cardan shaft was used.
Navistar is investigating a permanent remedy.

Recall Schedule :

Description of Recall Schedule : •In the interim period removing the front driveshaft will prevent possible separation on the highway while still looking into a permanent remedy.

Planned Dealer Notification Date : SEP 10, 2014 - SEP 11, 2014

Planned Owner Notification Date : SEP 10, 2014 - SEP 11, 2014

* NR - Not Reported