

SERVICE PROCEDURE

14514
SEPTEMBER 2014

SUBJECT: SAFETY RECALL
Double Cardan Front Driveshaft on certain 4800 models built 30 June 1999 thru 28 May 2002 with certain Fabco TC-200 transfer case (feature code 013TJZ only).

DEFECT DESCRIPTION

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.

MODELS INVOLVED

This Safety Recall involves certain 4800 models built 30 June 1999 thru 28 May 2002 with a certain Fabco TC-200 transfer case (feature code 013TJZ only).

NOTE: When necessary, you are authorized to travel to customer location to perform the following procedure.

PARTS INFORMATION

Part Description	Source
Material to Cage Cardan Joint (Refer to Step 10 A or B)	Purchase Locally

NOTE: All REMOVED parts must be marked with VIN information and caged properly and it is suggested they be returned to the customer as they may be required in the final remedy. Impress on the customer that the driveshaft must be stored in a secure, protected area to prevent any future damage.

SERVICE PROCEDURE

WARNING! TO PREVENT PROPERTY DAMAGE, PERSONAL INJURY, AND / OR DEATH, PARK VEHICLE ON HARD FLAT SURFACE, TURN THE ENGINE OFF, SET THE PARKING BRAKE AND INSTALL WHEEL CHOCKS TO PREVENT THE VEHICLE FROM MOVING IN BOTH DIRECTIONS.

WARNING! TO PREVENT PROPERTY DAMAGE, PERSONAL INJURY, AND / OR DEATH, IF THE VEHICLE MUST BE RAISED, DO NOT WORK UNDER THE VEHICLE SUPPORTED ONLY BY JACKS. JACKS CAN SLIP OR FALL OVER.

WARNING! TO PREVENT PERSONAL INJURY AND / OR DEATH, ALWAYS WEAR SAFE EYE PROTECTION WHEN PERFORMING VEHICLE MAINTENANCE.

WARNING! TO PREVENT PROPERTY DAMAGE, PERSONAL INJURY, AND / OR DEATH, ALLOW ENGINE TO COOL BEFORE REMOVING COMPONENTS.

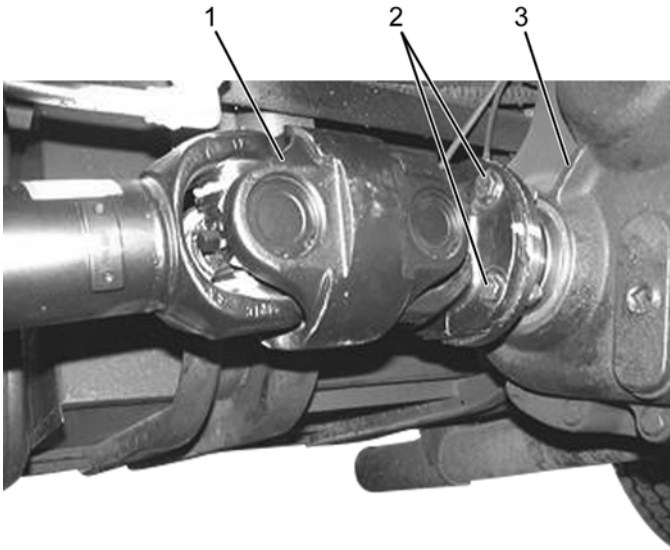
WARNING! TO PREVENT PROPERTY DAMAGE, PERSONAL INJURY, AND / OR DEATH, KEEP FLAMES OR SPARKS AWAY FROM VEHICLE AND DO NOT SMOKE WHILE SERVICING THE VEHICLE'S BATTERIES. BATTERIES EXPEL EXPLOSIVE GASES.

WARNING! TO PREVENT PROPERTY DAMAGE, PERSONAL INJURY, AND / OR DEATH, REMOVE THE GROUND CABLE FROM THE NEGATIVE TERMINAL OF THE BATTERY BOX BEFORE DISCONNECTING ANY ELECTRICAL COMPONENTS. ALWAYS CONNECT THE GROUND CABLE LAST.

1. Bring vehicle into shop and park on flat surface.
2. Shift transmission to Park or Neutral and set parking brakes.
3. Install wheel chocks.

NOTE: DO NOT perform front driveshaft removal if a vehicle front drive assembly was modified as listed in Step 4.

4. Inspect front driveshaft for the following:
 - a. Transfer case was repositioned by Truck Equipment Manufacturer (TEM) due to specialized truck body installation.
 - b. Center bearing was installed.
 - c. The suspect vehicles were originally built with one (1) driveshaft and the vehicle you are working on has two (2) driveshafts.
5. If any of the conditions in Step 4 above exist, **DO NOT** remove front driveshaft and proceed to Step 11; otherwise, proceed to Step 6.



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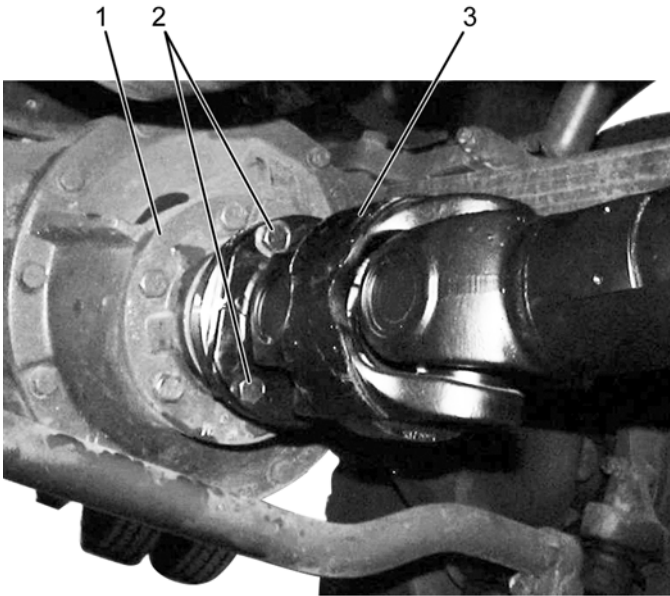
Figure 1. Cardan Joint.

1. Cardan joint
2. Bolt, washer, nut (4) (four nut and washer not shown) (two not shown)
3. Transfer case

NOTE: When removing driveshaft it is important not to let the Cardan joint extend to its fullest travel. Allowing the Cardan joint to extend to its fullest travel can cause damage to the joint.

NOTE: It is very important that you remove the driveshaft from the transfer case first.

6. Remove four bolts, nuts, and washers (Figure 1, Item 2) and disconnect front drive shaft (Cardan joint) (Figure 1, Item 1) from front yoke of transfer case (Figure 1, Item 3). Place rear Cardan joint on jack to support joint. **DO NOT** allow Cardan joint to extend to its fullest travel.



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Figure 2. Cardan Joint – Front Axle.

1. Front axle
 2. Bolt (4) (two not shown)
 3. Cardan joint
7. Remove four bolts (Figure 2, Item 2) and disconnect front driveshaft (Cardan joint) (Figure 2, Item 3) from front axle (Figure 2, Item 1). Place front Cardan joint on jack to support joint. Do NOT allow Cardan joint to extend to its fullest travel.
 8. Lower both jacks and remove driveshaft.
 9. Mark driveshaft with VIN number.
- NOTE: The driveshaft must be caged to support the Cardan joints.**
10. Cage drive shaft by either method below:
 - a. Place a piece of lumber (a 1X4 or 1X6) next to driveshaft and using bailing wire or duct tape to secure driveshaft and Cardan joints so they cannot move.
 - b. Measure diameter of Cardan joints and Install them into heavy tube of appropriate inside diameter (such as cardboard or PVC pipe) to prevent movement and secure tube so it does not move.

NOTE: All REMOVED parts must be marked with VIN information, caged properly and it is suggested they be returned to the customer as they may be required in the final remedy. Impress on the customer that the driveshaft must be stored in a secure, protected area to prevent any future damage.

11. Remove wheel chocks.

END OF SERVICE PROCEDURE

LABOR INFORMATION

Operation Number	Description	Time
A40-14514-1	Inspection ONLY	0.3 hr
A40-14514-2	Inspect, Remove, and Secure Front Driveshaft	1.0 hr

ROAD CALL INFORMATION

When road call to customer location is necessary, enter the labor charges for travel time as “other charges” and attach technician time punches when submitting this campaign claim.

CAMPAIGN IDENTIFICATION LABEL

Each vehicle corrected in accordance with this campaign must be marked with a CTS-1075 Campaign Identification Label.

Complete the label and attach on a clean surface next to the vehicle identification number (VIN) plate.

DO NOT REMOVE	
INTERNATIONAL	
Campaign No.	
VIN	
Eng.#	
COMPLETED	
Service Location Code #	
DO NOT REMOVE	

ADMINISTRATIVE / DEALER RESPONSIBILITIES

WARRANTY CLAIMS

Warranty claim expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Safety Recall 14514.

It is important that the coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Policy Manual, Section 7.1.8.

As with all claim submissions, items acquired locally must be submitted in the "Other Charges" tab. The cost of any bulk items (such as a bag of cable tie straps, roll of wire, a barrel of oil, or a tube of silicone) should be prorated for the cost of the individual pieces / amount used during each repair.

	GROUP	NOUN	C	WARR.	TP	PAD
GROUP — Enter number						
NOUN — Leave blank						
C (CAUSE) — Enter either 1, 2, 3. (See below)						
1. Inspected (No repair required).						
2. Inspected and repaired.						
3. Defective part from parts stock.						
WARRANTY — (Warranty Code) Enter 40.						
TYPE PART — Enter P for type part causing failure.						
PAD — Enter 100						

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VEHICLE RECALL 14514

UNITED STATES AND POSSESSIONS

The National Traffic and Motor Vehicle Safety Act, as amended, provides that each vehicle that is subject to a vehicle recall campaign must be adequately repaired within a reasonable time after the owner has tendered it for repair. A failure to adequately repair within 60 days after a tender of a vehicle is prima facie evidence of failure to repair within a reasonable time. If the condition is not adequately repaired within 60 days, the owner may be entitled to replacement with an identical or reasonable equivalent vehicle at no charge, or to a refund of the purchase price less a reasonable allowance for depreciation.

Dealers must correct all vehicles subject to this campaign at no charge to the owner, regardless of mileage, age of vehicle, or ownership, from this time forward.

Dealers should proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified immediately from your dealer location.

Dealers must make every effort to promptly schedule an appointment with each owner to repair his or her vehicle as soon as possible. However, consistent with the customer notification, dealers are expected to complete the repairs on the mutually agreed upon service date.

Dealers involved in the recall process will be furnished a listing of owner names and addresses to enable them to follow up with owners and have the vehicles corrected. Use of this listing must be limited to this campaign because the list may contain information obtained from state motor vehicle registration records, and the use of such motor vehicle registration data for purposes other than this campaign is a violation of law in several states.

CANADA

Dealers must correct all vehicles subject to this campaign at no charge to the owner, regardless of mileage, age of vehicle, or ownership, from this time forward.

Dealers should proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified immediately from your dealer location.

Dealers must make every effort to promptly schedule an appointment with each owner to repair his or her vehicle as soon as possible. However, consistent with the customer notification, dealers are expected to complete the repairs on the mutually agreed upon service date.

Dealers involved in the recall process will be furnished a listing of owner names and addresses to enable them to follow up with owners and have the vehicles corrected. Use of this listing must be limited to this campaign because the list may contain information obtained from state motor vehicle registration records, and the use of such motor vehicle registration data for purposes other than this campaign is a violation of law in several states.

EXPORT

Export Distributors should proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified immediately from your distributor location.

Export Distributors are to submit warranty claims in the usual manner making reference to this recall number.

Export Distributors are expected to provide full cooperation and follow-up with respect to this important subject matter. If you have any questions or need further assistance, please contact the Regional Service Manager at your regional office.

NAVISTAR, INC.