

SERVICE PROCEDURE

**G-08504
MAY 2008**

**SUBJECT: SAFETY RECALL (U.S.)
FRONT AXLE BEARINGS on certain 4000 truck and
3000RE, FBC, and SFC bus models built 12/3/07
thru 1/25/08.**

DEFECT DESCRIPTION

A manufacturing error in the subassembly of certain front axle wheel hubs may have resulted in the bearings being inadequately lubricated. This condition could cause the front axle bearings to overheat which may result in bearing spalling, seizing and related progressive damage. Such damage may include wheel lockup or front wheel separation with little or no warning.

MODELS INVOLVED

This Safety Recall involves certain 4000 truck and 3000RE, FBC, and SFC bus models built 12/3/07 thru 1/25/08.

PARTS INFORMATION

- Parts that **WILL BE** required.
 - 7,000 lbs to 8,500 lbs front axles (F08 wheel end)

Part Number	Description	Quantity
CR28758	Hub Seal	2
408103C1	Hub Cap Gasket	2
103411	Cotter Pin	2

- 9,000 lbs to 14,500 lbs front axles (F12 wheel end)

Part Number	Description	Quantity
CR35066	Hub Seal	2
3531210C1	Hub Cap Gasket	2
108563	Cotter Pin	2

PARTS INFORMATION (Continued)

- Parts that **MAY BE** required based on inspection results.

- 7,000 lbs to 8,500 lbs front axles (F08 wheel end)

Part Number	Description	Quantity
FPJM207010	Inner Bearing Cup	1
FP25820	Outer Bearing Cup	1
3628352C91	Inner Bearing Cone	1
3628362C91	Outer Bering Cone	1

- 9,000 lbs to 14,500 lbs front axles (F12 wheel end)

Part Number	Description	Quantity
FPHM212011	Inner Bearing Cup	1
FP3720	Outer Bearing Cup	1
3628353C91	Inner Bearing Cone	1
3628363C91	Outer Bering Cone	1

SERVICE PROCEDURE



WARNING:

TO PREVENT UNEXPECED MOVEMENT OF THE VEHICLE AND POSSIBLE SERIOUS PERSONAL INJURY OR DEATH, BLOCK THE WHEELS TO PREVENT THE VEHICLE FROM MOVING IN BOTH DIRECTIONS.



WARNING:

TO PREVENT SERIOUS EYE INJURY, ALWAYS WEAR SAFE EYE PROTECTION WHEN PERFORMING VEHICLE MAINTENANCE OR SERVICE.

SERVICE PROCEDURE (Continued)

1. Park the vehicle on a hard level surface; set the parking brake, turn the engine off; block the rear wheels to prevent the vehicle from moving in either the forward or rear direction; and put the front axle on floor stands such that the front tires do not touch the floor.
2. Remove the front wheels and disassemble the front wheel hub assemblies. Do not disassemble bearing cups from the hub at this time. Discard the hub cap gasket, cotter key and hub seal.
3. Thoroughly clean all front wheel hub assembly parts.
4. Visually inspect all front wheel hub assembly parts and the spindle for spalling, gouging, abnormal wear, heat damage or other defect. Pay particular attention to the roller bearings and bearing cups in the hub.
5. Discard and replace any defective material. Obtain a new hub cap gasket, cotter key and hub seal.
6. Install the hub seals and reassemble the front wheel hub assemblies onto the axle except for the cotter key. Take care to thoroughly pack the bearings with grease. Do not install the brake drum or wheel.
7. Seat the bearings to insure maximum service reliability. Tighten the bearing adjustment nut to 200 ft-lbs (271 N-m) while rotating the hub. Back off the adjusting nut $\frac{1}{2}$ turn. Install the brake drum and wheel.
8. Use a dial indicator to measure hub end play with respect to the spindle. Mount the dial indicator at the bottom of the wheel as shown in Figure 1. Grasp the tire at 3 o'clock and 9 o'clock position. First push, then pull evenly on the tire to measure the amount of end play. Note the total indicator reading.

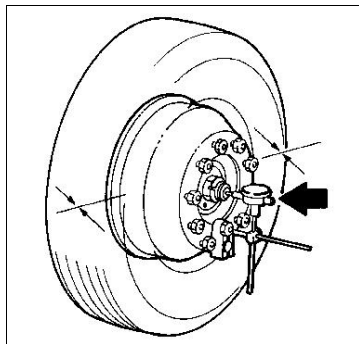


Figure 1. Measuring Hub End Play

SERVICE PROCEDURE (Continued)

9. Tighten or loosen the adjustment nut accordingly until the total bearing end play is 0.001 to 0.005 inch (0.0254 to 0.1270 mm).
10. Install the cotter key. Backing off adjustment nut slightly for key to hole alignment is permissible.
11. Install hub cap, gasket, and bolts. Tighten bolts to 16 to 20 ft-lbs (13.5 to 27 N-m)
12. Remove vehicle from floor stands.

END OF SERVICE PROCEDURE

LABOR INFORMATION

Operation Number	Description	Time
A40-08504-1	Teardown, Inspection, and Reassembly of Front Axle Hubs	1.6 hr

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 – U.S. 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.

WARRANTY CLAIMS

Refer to Dealer Warranty Manual for procedures to conduct Recall Campaigns.

It is important that the Recall Coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Manual, Section 7-1. Special attention should be given to Items 39 through 44:

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

ADMINISTRATIVE/DISTRIBUTOR RESPONSIBILITY – 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