

SERVICE PROCEDURE

**G-08511
DECEMBER 2008**

**SUBJECT: SAFETY RECALL (U.S.)
FRONT AXLE BEARINGS on certain 3200, 4100,
4300, 4400 truck models and HC commercial bus
models built 8/18/08 thru 10/20/08 and equipped
with an 8000 lbs or 12,000 lbs front axle.**

DEFECT DESCRIPTION

The front axle bearings may not have been sufficiently lubricated during assembly. Inadequate bearing lubrication may cause bearing seizing. A seized bearing on a front axle may result in a vehicle crash possibly causing property damage, personal injury, or death.

MODELS INVOLVED

This Safety Recall involves certain 3200, 4100, 4300, 4400 truck models and HC commercial bus models built 8/18/08 thru 10/20/08 and equipped with an 8000 lbs or 12,000 lbs front axle.

PARTS INFORMATION

- Parts that **WILL BE** required.
 - 8000 lbs front axles (F08 wheel end)

| Part Number | Part Description | Quantity |
|--------------------|-------------------------|-----------------|
| 408103C1 | Hub Cap Gasket | 2 |
| 103411 | Cotter Pin | 2 |

- 12,000 lbs front axles (F12 wheel end)

| Part Number | Part Description | Quantity |
|--------------------|-------------------------|-----------------|
| 3531210C1 | Hub Cap Gasket | 2 |
| 108563 | Cotter Pin | 2 |

- Parts that **MAY BE** required.
 - 8000 lbs front axles (F08 wheel end)

| Part Number | Part Description | Quantity |
|-------------|--------------------|----------|
| CR28758 | Hub Seal | 2 |
| FPJM207010 | Inner Bearing Cup | 1 |
| FP25820 | Outer Bearing Cup | 1 |
| 3628352C91 | Inner Bearing Cone | 1 |
| 3628362C91 | Outer Bearing Cone | 1 |

- 12,000 lbs front axles (F12 wheel end)

| Part Number | Part Description | Quantity |
|-------------|--------------------|----------|
| CR35066 | Hub Seal | 2 |
| FPHM212011 | Inner Bearing Cup | 1 |
| FP3720 | Outer Bearing Cup | 1 |
| 3628353C91 | Inner Bearing Cone | 1 |
| 3628363C91 | Outer Bearing Cone | 1 |

SERVICE PROCEDURE

WARNING!

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

WARNING!

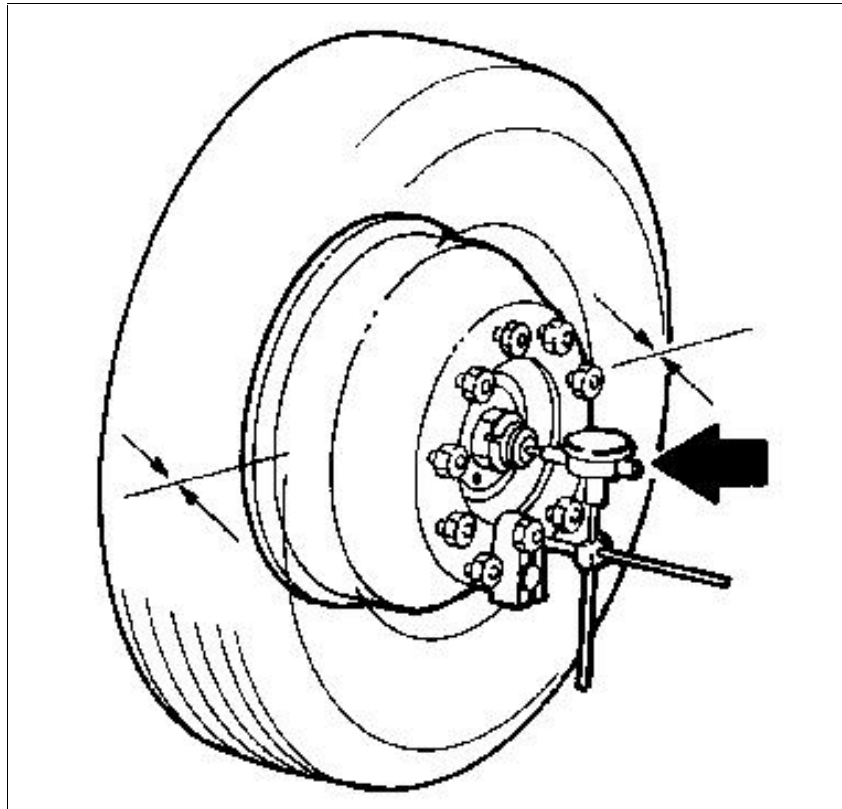
TO PREVENT SERIOUS EYE INJURY, ALWAYS WEAR SAFE EYE PROTECTION WHEN PERFORMING VEHICLE MAINTENANCE OR SERVICE.

1. Park the vehicle on a hard level surface; set the parking brake; turn the engine off; block the 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. The following instructions should be followed on each front axle wheel end.
3. Place a support under the tire to prevent cocking of the hub when the outer bearing is removed. Disassemble hub cap, cotter pin, retaining nut, and outer bearing from the front hub assembly. Discard the hub cap gasket and cotter pin.

4. Inspect the outer bearing and hub cavity. The bearing should be fully packed with grease and the cavity completely filled with grease all the way around.
 - If the bearing/cavity is fully packed/filled with grease, reassemble the hub using a new hub cap seal and cotter pin. Do not install the cotter pin. Skip to step 11.
 - If the bearing/cavity is not fully packed/filled with grease, continue with step 5.
5. Remove the hub assembly from the front axle wheel end. Remove the hub seal and inner bearing. Discard the hub seal.
6. Thoroughly clean all front wheel hub assembly parts.
7. 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.
8. Discard and replace any defective material. Obtain a new hub cap gasket, cotter pin, and hub seal.
9. Install the hub seal and reassemble the front wheel hub assembly on the axle except for the cotter pin. Take care to thoroughly pack the bearings and hub cavity with grease. Do not install the brake drum or wheel.
10. 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.
11. Torque the adjustment nut to 50 ft-lbs while rotating the wheel. Back off the adjustment nut $\frac{1}{8}$ turn.

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12. Use a dial indicator to measure hub end play with respect to the spindle. Mount a dial indicator at the bottom of the wheel. 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.



13. 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).
14. Install the cotter pin. Backing off adjustment nut slightly for pin to hole alignment is permissible.
15. Install hub cap, gasket, and bolts. Tighten bolts to 16 to 20 lb-ft (13.5 to 27 N-m).
16. Tighten wheel nuts to specification and readjust front axle slack adjusters if truck is equipped with air brakes.
17. Remove vehicle from floor stands.

END OF SERVICE PROCEDURE

LABOR INFORMATION

| Operation Number | Description | Time |
|-------------------------|--------------------------|-------------|
| A40-08511-1 | Inspection Only | 0.6 |
| A40-08511-2 | Inspection & Bearing R&R | 1.6 |

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

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.

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) | | | | | | |
| 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 | | | | | | |

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