

Safety Recall

Subject: MERITOR REAR AXLE WHEEL END NUT PACK INSPECTION

Date: April 9, 2012

Bulletin: RCB-012-11

Campaign #: M0250

Affected Models: Certain 2012 MY NE8J, NJ8J, NV8J models equipped with Meritor rear axles.

Important: Verify on the Hino DCS Warranty System that the vehicle needs to have this work performed.

Condition:

Certain suspect axles may have improperly assembled fastening hardware or nut locking features. This condition can lead to field performance issues, including wheel separation, which could then lead to loss of vehicle control, property damage, or personal injury.

Subject Vehicles:

Certain 2012MY NE8J, NJ8J, NV8J Hino Conventional Trucks, containing Meritor axles, assembled at the Williamstown, WV assembly plant.

Before You Begin:

Read and understand all instructions and procedures before you begin. Read and observe all Caution and Warning safety alerts that precede these instructions while following these procedures. The alerts help to avoid damage to components, serious personal injury, or both.

!!! WARNING !!!

Park the vehicle on a level and solid surface

Apply the parking brake and confirm parking brake activation

Place wheel chocks in front and behind all wheels.

Support the vehicle with safety stands.

DO NOT WORK UNDER A VEHICLE WITHOUT SAFETY STANDS IN PLACE.

Jacks can slip or fail, resulting in serious personal injury as well as damage to components. Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.

Wear safety glasses to prevent eye injuries.

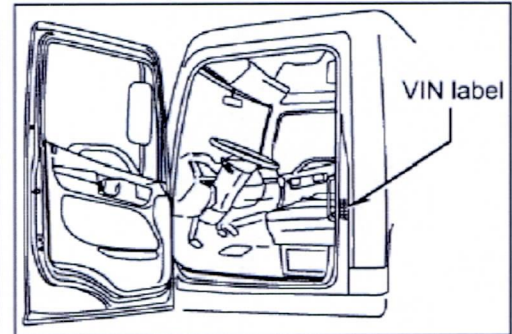
Safety Recall

Once Recall Is Completed

Complete a recall sticker and affix to the left door jam above the V.I.N. decal.



HINO 
 A Toyota Group Company
 Campaign No.: _____
 Dealer code: _____
 Repair date: ____/____/____
 (MM/DD/YY)
DO NOT REMOVE



INSPECTION PARTS:

PART NUMBER	DESCRIPTION	QUANTITY (Based On Axle)
2208H476	Axle Flange Gasket (Rear Axle_RS_8 Bolt)	2
2208E1123	Axle Flange Gasket (Rear Axle_RS_12 Bolt)	

REPAIR PARTS:

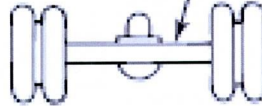
Depending on your inspection results after disassembly, it may be necessary to replace wheel bearings, lock washers, lock rings and/or hub seals. Refer to your dealer's Hino Parts Catalog for specific part number information. Specific axle information may be needed to order parts and can be found using the Axle Identification Tag on the axle.

AXLE IDENTIFICATION TAG INFORMATION

Model No.
 Customer No.
 Serial No. Plant
 Ratio

IDENTIFICATION TAG

LOCATION OF THE IDENTIFICATION TAG, OR STAMP NUMBER, FOR THE AXLES. LOCATION IS DETERMINED FROM THE LEFT DRIVER SIDE LOOKING TOWARD THE FRONT OF THE VEHICLE.



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NOTICE: If you have any questions or concerns regarding parts, Meritor's Commercial Vehicle Aftermarket Services is also available at 1-(888)-725-9355.

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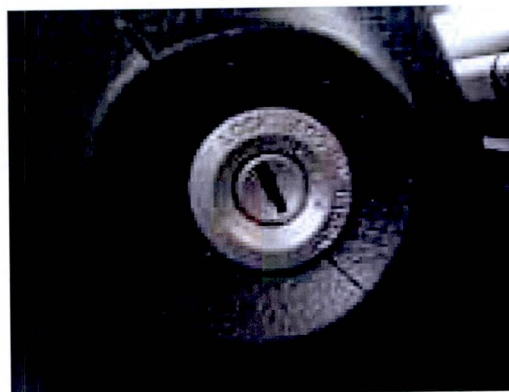
This bulletin contains three separate sections and each of the sections has numbered paragraphs:

- **REAR AXLE (RS) INSPECTION PROCEDURE**
- **REAR AXLE (RS) REASSEMBLY PROCEDURE**
- **REAR AXLE (RS) REPAIR PROCEDURE**

Depending upon the results of the **REAR AXLE (RS) INSPECTION PROCEDURE**, you may be directed to refer to one or both of the other sections.

REAR AXLE (RS) INSPECTION PROCEDURE:

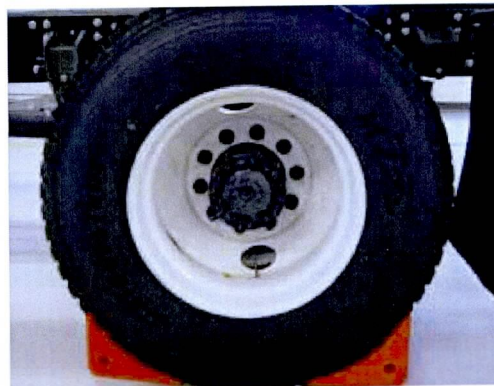
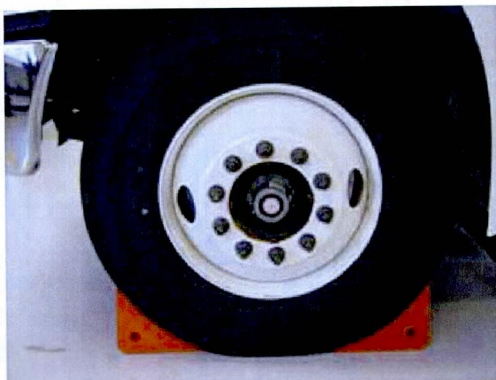
1. Park the vehicle on level ground.
2. Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.



3. Apply the parking brake.

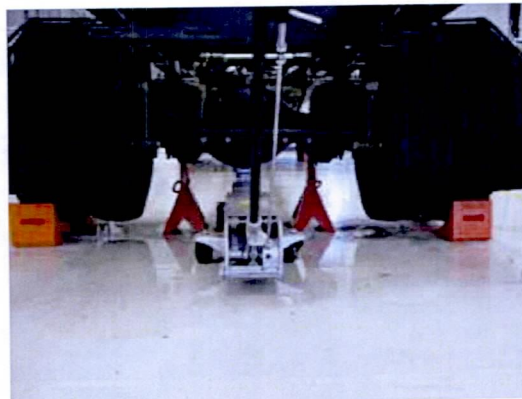


4. Chock front and rear wheels.



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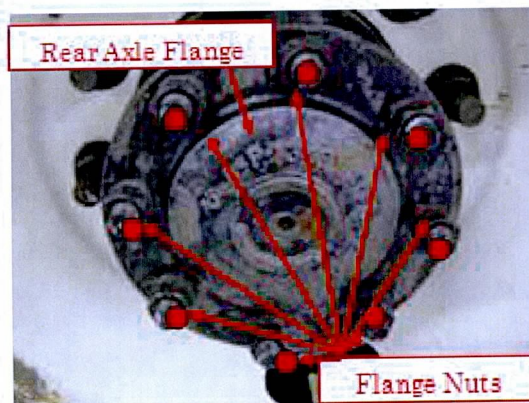
5. Raise the rear of the vehicle until the rear wheels are off the ground. Support the vehicle with safety stands.



6. Visually inspect the inner wheel bearing seal area on both the driver and passenger rear axle wheel ends for a seal leak. Document your results.



7. While using the appropriate container to capture the lubricant, remove the rear axle shaft flange nuts and axle shaft on both the driver and passenger sides. The number and size of axle flange bolts may vary depending on axle size.



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WARNING: Make certain that the front wheels have been properly blocked to prevent any unexpected movement of the vehicle when the parking brake is released during the wheel bearing endplay check.

8. Using a dial indicator, measure and record the wheel bearing end play for both the driver and passenger side wheel end. Does the wheel bearing end play fall within the end play specification?

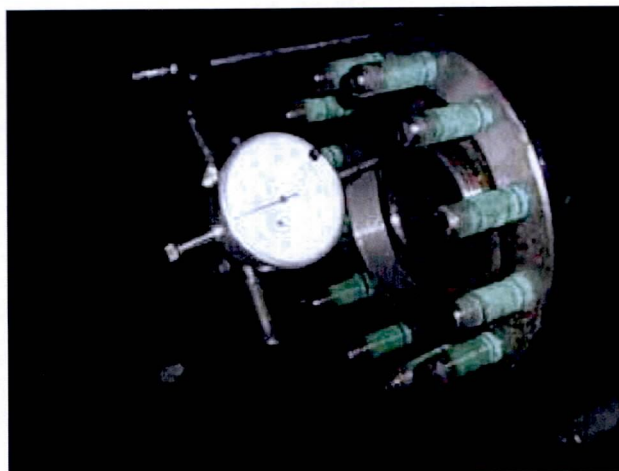
Wheel Bearing End Play Specification:
0.001" - 0.005" (0.0254 - 0.0127 mm).

- Yes

Proceed to **STEP 9**.

- No

Proceed to the "Rear Axle (RS) Repair Procedure".



NOTICE: In order to properly disassemble, inspect and repair the rear axle wheel ends, in addition to the applicable Hino 2012MY Chassis Workshop Manual, you must also refer to and closely follow the Meritor Wheel-End Components Maintenance Manual MM-0409. These publications will contain the latest disassembly, inspection and reassembly procedures.

WARNING: Make certain that the parking brake has been reapplied after the wheel bearing measurements have been recorded.

9. Visually inspect to confirm that the 4 components of the wheel bearing nut pack are installed on both the driver and passenger side wheel ends.

- (A) - Wheel Bearing Adjusting Nut
- (B) - Lock Ring
- (C) - Tabbed or Solid Disc Lock Washer
- (D) - Jam Nut

Are the 4 components installed on both the driver and passenger side wheel ends?

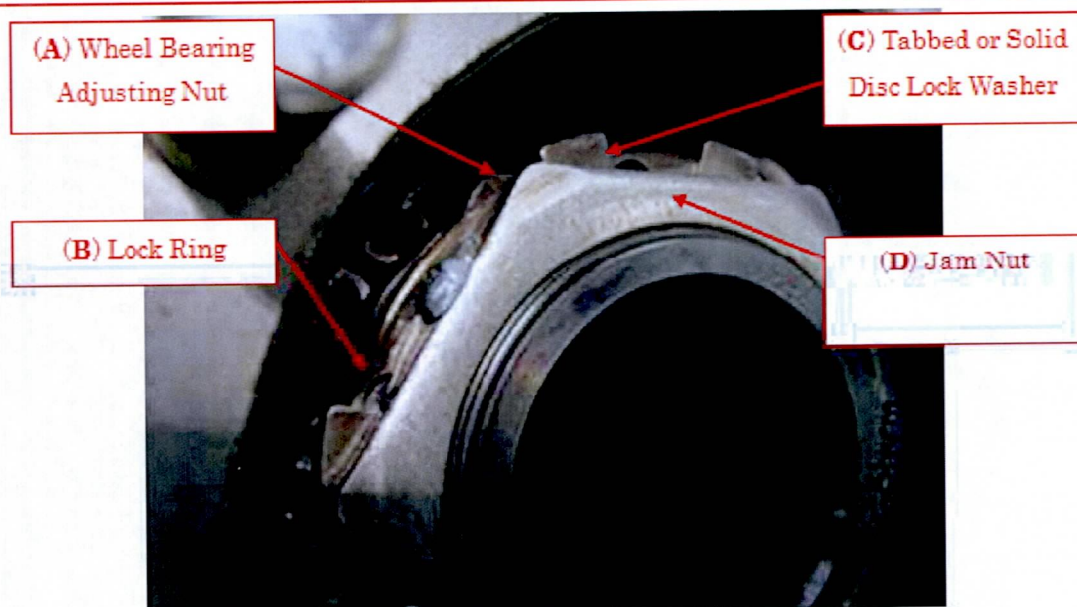
- Yes

Proceed to **STEP 10**.

- No

Proceed to the "Rear Axle (RS) Repair Procedure".

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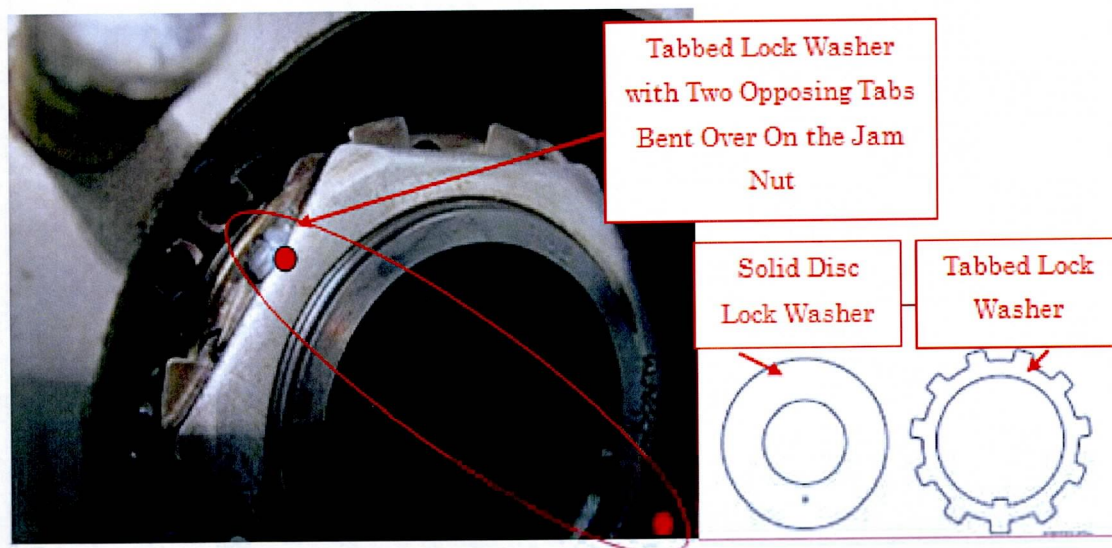
10. Inspect to confirm that tabbed lock washer has two opposing tabs that are bent over on the jam nut. In rare cases, the lock washer could be a solid disc type. If a solid disc lock washer is installed, one tab will need to be bent over on the jam nut. Is the locking tab correctly installed and properly bent down over the jam nut?

- Yes

No further inspection or repairs are required. Proceed to the **“Rear Axle (RS) Reassembly Procedure”**.

- No

Proceed to the **“Rear Axle (RS) Repair Procedure”**.



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REAR AXLE (RS) REASSEMBLY PROCEDURE:

1. Using a new axle flange gasket, install the driver and passenger side axle shaft and axle flange nuts. Depending on the axle size and style of nut, the torque value may vary. To determine the correct torque specification, please see the specified torque value chart below.

Specified Torque Value:

Standard Nut Style

.44inch x 20 (Thread Size & Pitch)	63 lb.ft.
.50inch x 20 (Tread Size & Pitch)	95 lb.ft.
.56inch x 18 (Tread Size & Pitch)	138 lb.ft.
.62inch x 18 (Thread Size & Pitch)	190 lb.ft.

Lock Nut Style

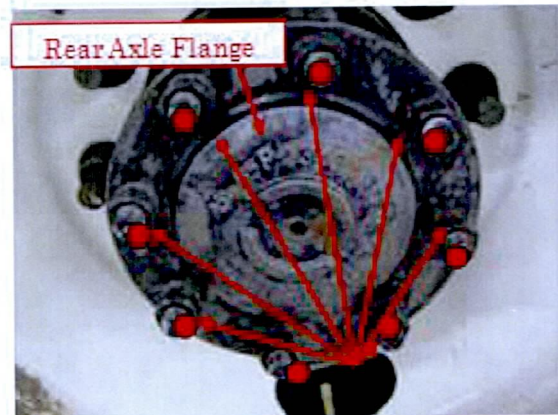
.44inch x 20 (Thread Size & Pitch)	53 lb.ft.
.50inch x 20 (Tread Size & Pitch)	83 lb.ft.
.56inch x 18 (Tread Size & Pitch)	123 lb.ft.
.62inch x 18 (Thread Size & Pitch)	160 lb.ft.

NOTICE: Depending upon the axle flange nut size and pitch, the specified torque value may differ. Inspect the axle flange nut size and pitch to ensure the correct specified torque value is applied to the axle flange nuts.

NOTICE: If you have any questions or concerns during disassembly, inspection, assembly or repair of the rear axle, contact OnTrac for additional support.

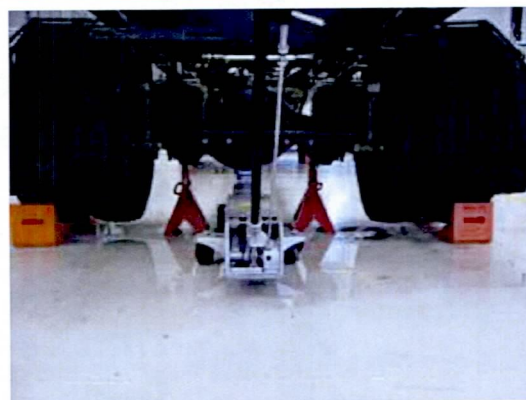
- Phone 1-(866)-668-7221

2. Top off the rear axle with the correct lubricant. Refer to the 12MY Hino Chassis Workshop Manual for the correct lubricant type and capacity.



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3. Raise the rear of the vehicle off the safety stands. Remove the safety stands and safely lower the vehicle to the ground.



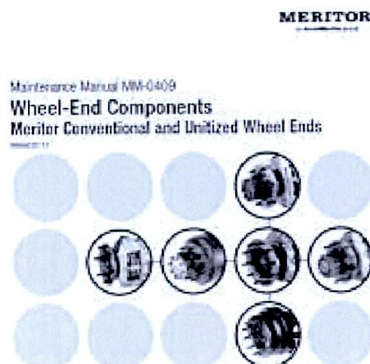
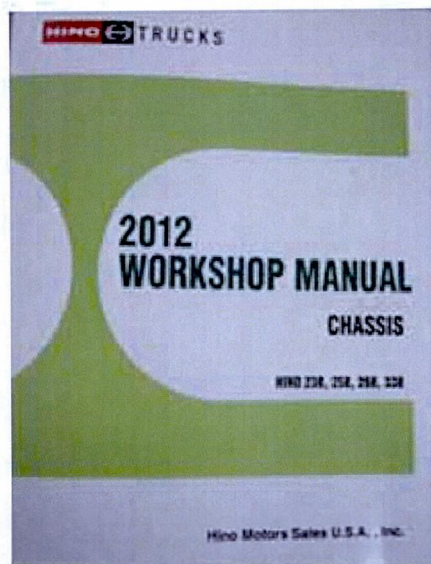
4. The rear axle inspection is complete. No further inspection or repairs are required. The vehicle can be returned to the customer.

REAR AXLE (RS) REPAIR PROCEDURE:

1. Prior to any further disassembly or inspection, you **MUST** contact OnTrac(Meritor) at 1-(866)-668-7221.

The results of the “**Rear Axle (RS) Inspection Procedure**” may require one or both of the rear axle wheel ends to be disassembled, inspected and repaired. **In order to properly disassemble, inspect and repair the rear end axle wheel ends, in addition to the applicable Hino 2012MY Chassis Workshop Manual, you must also refer to and closely follow the Meritor Wheel-End Components Maintenance Manual MM-0409. These publications will contain the latest disassembly, inspection and reassembly procedures.**

The Meritor MM-0409 Manual is available on the worldwide web at www.meritor.com/customer/northamerica/lod/default.aspx.

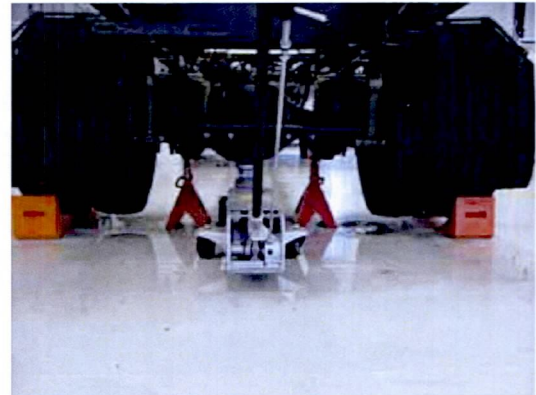


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NOTICE: If you have any questions or concerns during disassembly, inspection, assembly or repair of the rear axle, contact OnTrac for additional support.

- Phone 1-(866)-668-7221

2. Raise the rear of the vehicle off the safety stands. Remove the safety stands and safely lower the vehicle to the ground.



3. The rear axle inspection and repair is complete. No further inspection or repairs are required. The vehicle can be returned to the customer.

Claim Application:

NOTE: ONLY ONE LABOR OPERATION CODE CAN BE USED.

NOTE: The OnTrac authorization number must be listed in the claim text if wheel end replacement was required.

Inspection (includes inspecting both wheel ends, no repairs)

- a) Campaign No.: M0250
- b) Labor Charge: 1.2
- c) Warranty Code: 5235098
- d) Operation Code: 52350AOT
- e) Original Part No.: 9999999997

Repair (includes inspection both wheel ends and repairing one wheel end)

- a) Campaign No.: M0250
- b) Labor Charge: 4.4
- c) Warranty Code: 5235098
- d) Operation Code: 52350AOT
- e) Original Part No.: 9999999997