



A Toyota Group Company

SAFETY RECALL

SUBJECT:	Front Axle U-Bolt Replacement
DATE:	05/14/2015
BULLETIN NO.:	RCB-005-15
CAMPAIGN NO.:	M0280
AFFECTED MODELS:	2015MY- 2016MY Conventional Hino Trucks.

NOTE: Refer to the appropriate Vehicle Identification Number (VIN) list to determine vehicle eligibility.

CONDITION:

During assembly of the front axle, the front axle U-bolts were potentially over-torqued past the yield strength and could have begun to deform plastically. The following work procedure provides direction for replacement of the front axle U-bolts.

SUBJECT VEHICLES:

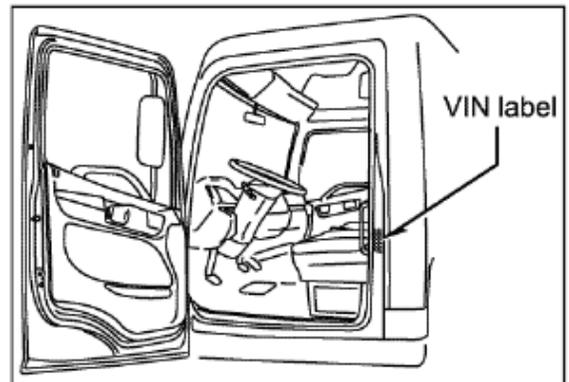
2015MY and 2016MY Conventional Hino Trucks. These vehicles were assembled at the Williamstown West Virginia, U.S.A. assembly plant.

BEFORE YOU BEGIN:

- Read and understand all instructions and procedures before you begin the work.
- Read and follow all **WARNINGS** and **NOTICES** set forth in this publication. These alerts help to avoid damage to components, serious personal injury, or both.
- Park the vehicle on a level and solid surface and apply the parking brake.
- Confirm the starter switch is in the off (LOCK) position, and the key is removed.
- Wear safety glasses to prevent eye injuries.
- Place wheel chocks in front of and behind all wheels.

Once Recall Is Completed

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

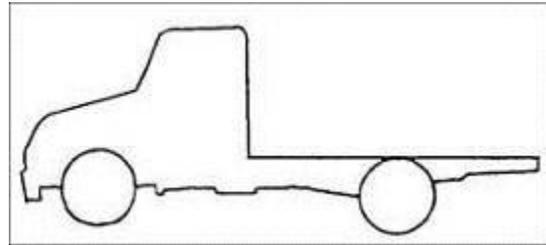


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PARTS:

PART NUMBER	PART DESCRIPTION	QUANTITY
SZ94084259	Front Axle U-bolt (8K, 10K, 12K Front Axle)	4
SZ94084641	Front Axle U-bolt (Optional 14K Front Axle)	4
SZ17818002	U-Bolt Nut	8
SZ20118016	Washer	8

1. Park the vehicle on a level and solid surface.



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.



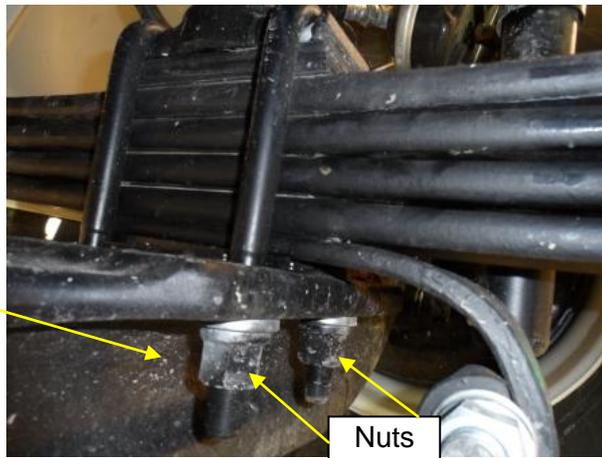
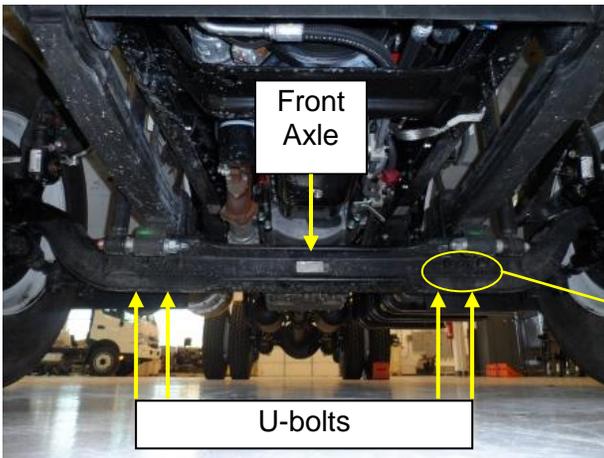
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4. Chock all of the wheels.



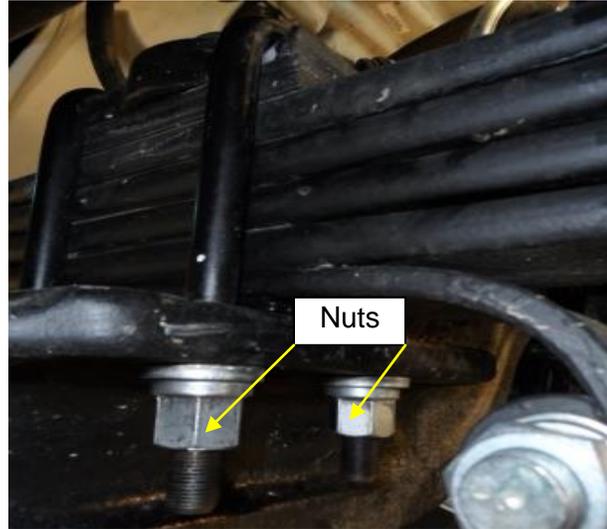
REPAIR PROCEDURE

1. With the vehicle on the ground, locate the 4 U-bolts which secure the front leaf springs to the front axle. Start with the left front U-bolt. Remove and discard the 2 nuts and 2 washers which secure the left front U-bolt to the front axle. Remove and discard the U-bolt.

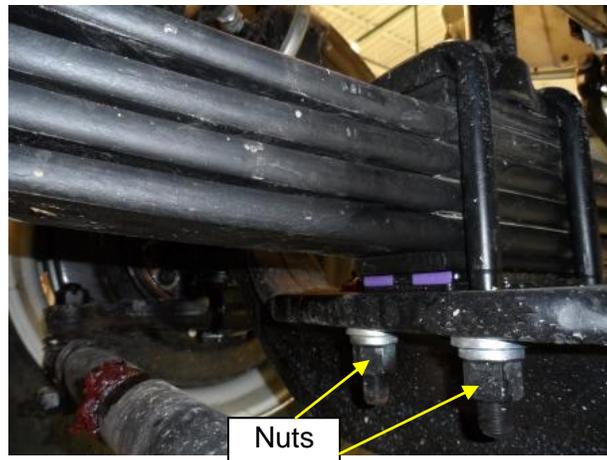


S A F E T Y R E C A L L

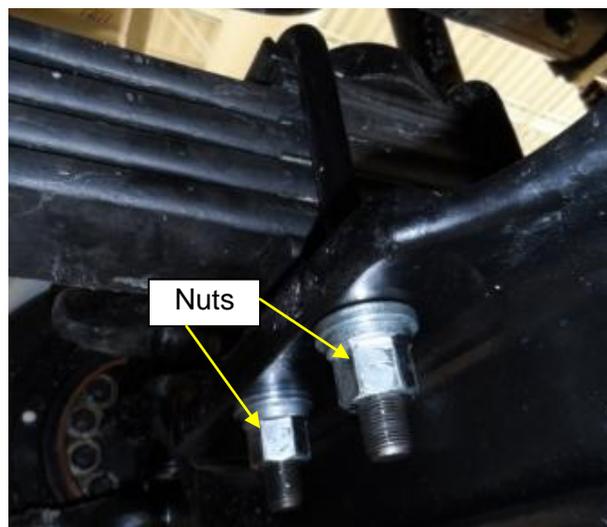
2. Install a new U-bolt in the left front position using 2 new nuts and 2 new washers. Temporarily tighten the 2 nuts until snug. An equal number of threads should be exposed on each U-bolt below the nut. The nuts will be torqued to specification in step 5, below.



3. Remove and discard the 2 nuts and 2 washers which secure the left rear U-bolt to the front axle. Remove and discard the U-bolt.



4. Install a new U-bolt in the left rear position using 2 new nuts and 2 new washers. Temporarily tighten the 2 nuts until snug. An equal number of threads should be exposed on each U-bolt below the nut. The nuts will be torqued to specification in step 5, below.

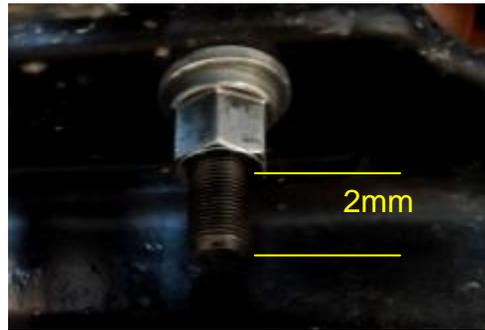
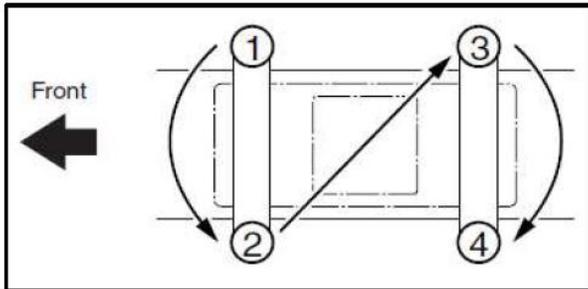


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5. Tighten the 4 left side U-bolt nuts in four graduated steps until the specified torque is reached. Follow the torque sequence illustrated below for each of the four graduated steps.

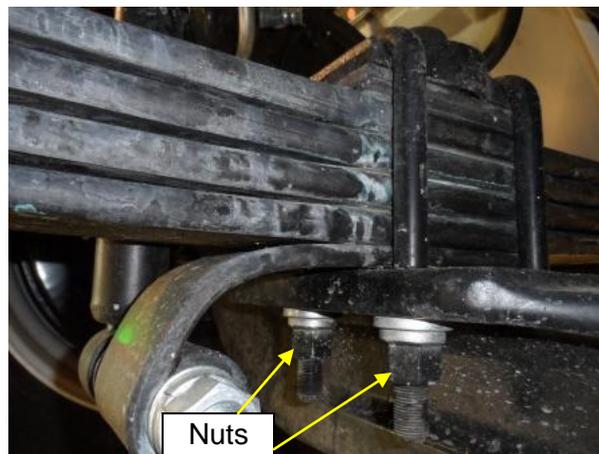
Specified Torque: 311 lb-ft (421 Nm) *

NOTICE: Inspect the U-bolts and nuts for signs of deformation or thread damage. If found, the U-bolts and nuts must be replaced. In addition, if a U-bolt is loosened and torqued more than three times, it must be replaced.



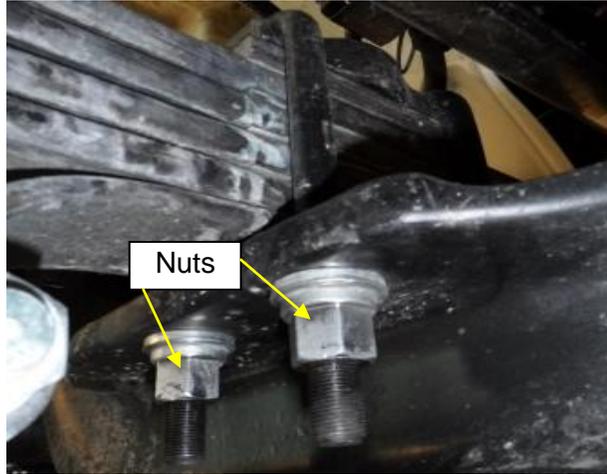
**After torquing, ensure the U-bolt threads extend at least 2mm past the nuts. Results will vary depending on the number of shims present between the axle and leaf spring.*

6. Remove and discard the 2 nuts and 2 washers which secure the right front U-bolt to the front axle. Remove and discard the U-bolt.

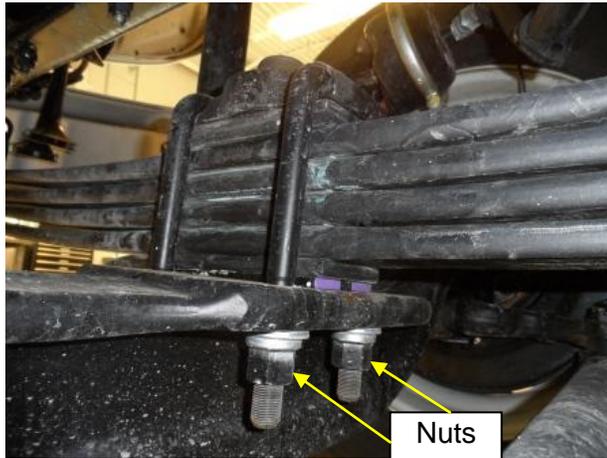


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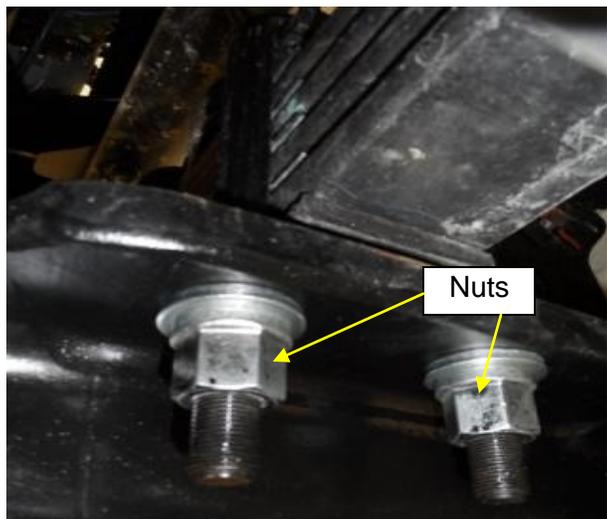
7. Install a new U-bolt in the right front position using 2 new nuts and 2 new washers. Temporarily tighten the 2 nuts until snug. An equal number of threads should be exposed on each U-bolt below the nut. The nuts will be torqued to specification in step 10, below.



8. Remove and discard the 2 nuts and 2 washers which secure the right rear U-bolt to the front axle. Remove and discard the U-bolt.



9. Install a new U-bolt in the right rear position using 2 new nuts and 2 new washers. Temporarily tighten the 2 nuts until snug. An equal number of threads should be exposed on each U-bolt below the nut. The nuts will be torqued to specification in step 10, below.

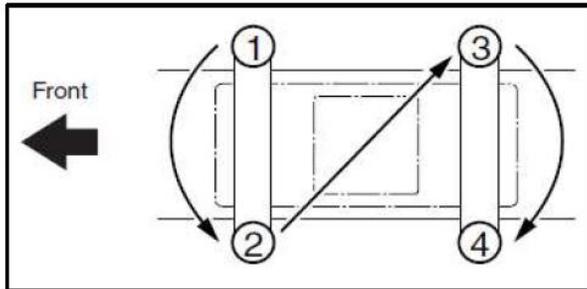


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10. Tighten the 4 right side U-bolt nuts in four graduated steps until the specified torque is reached. Follow the torque sequence illustrated below for each of the four graduated steps.

Specified Torque: 311 lb-ft (421 Nm) *

NOTICE: Inspect the U-bolts and nuts for signs of deformation or thread damage. If found, the U-bolts and nuts must be replaced. In addition, if a U-bolt is loosened and torqued more than three times, it must be replaced.



*After torquing, ensure the U-bolt threads extend at least 2mm past the nuts. Results will vary depending on the number of shims present between the axle and leaf spring.

FINAL INSPECTION PROCEDURE

To complete this campaign procedure, please review the campaign and confirm the following:

- Ensure no deformation or damage is present to the U-bolts due to over or improper tightening.
- Ensure all of the U-bolts have at least 2mm of thread that extends past the fastener. The number of exposed threads below the U-bolt nuts should be nearly equal on each U-bolt from side to side.



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CLAIM APPLICATION:

- 1) Recall No.: M0280
- 2) Labor charge: 2.1 hrs.
- 3) Warranty code: 53140
- 4) Trouble Code: 98
- 5) Operation code: 53107ARE
- 6) Original failed part number: 9999999999