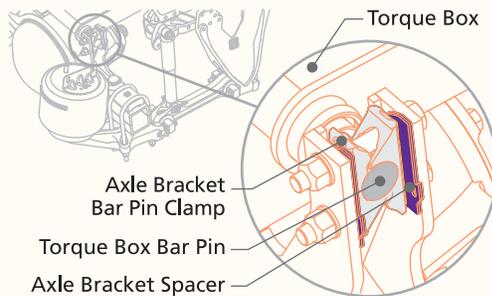


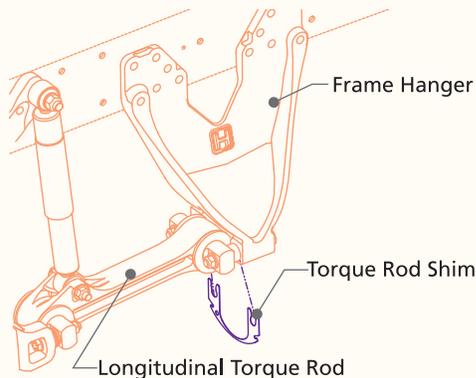
## It Takes Two!

The Hendrickson HTB™ LT suspension, available on International truck vehicles, has a unique axle connection. This unique feature requires **two** axle bracket spacers per axle bracket location to solidify the connection. The combination of the **bar pin clamps** and **axle bracket spacer** lock the torque box to the axle.

These axle bracket spacers are designed to take up the gap in the axle bracket after axle alignment is achieved.



**NOTE:** Axle bracket spacer **MUST** be removed prior to axle alignment



Axle alignment is performed by adding or removing torque rod shims at the torque rod to frame hanger connection.

Prior to axle adjustment at the torque rod to frame hanger, all axle bracket spacers on the adjusting axle must be removed.

**So remember... when aligning the axle on the HTB 400 LT suspension, IT TAKES TWO!**

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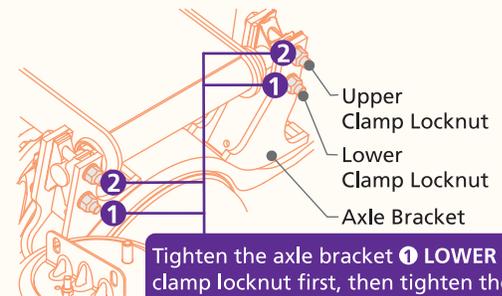


HTB™ 400 LT for International Truck Vehicles

Once the axle is aligned at the torque rod to frame hanger connection, the axle bracket spacers are reinstalled at the axle bracket. Axle bracket spacers can be installed in any configuration that will work, although **TWO** spacers must always be installed at each axle bracket.

*Axle bracket spacers can be installed in any configuration that will work, although **TWO** spacers must always be installed at each axle bracket.*

After the axle bracket spacers are installed, proceed to tighten the axle bracket clamp locknuts to specified torque in proper sequence, starting with the **1** lower clamp locknuts first then the **2** upper clamp locknuts.



Tighten the axle bracket **1** LOWER clamp locknut first, then tighten the axle bracket **2** UPPER clamp locknut

See vehicle manufacturer for tightening torque specifications.

# Align with Hendrickson — it's as easy as 1...2...3...

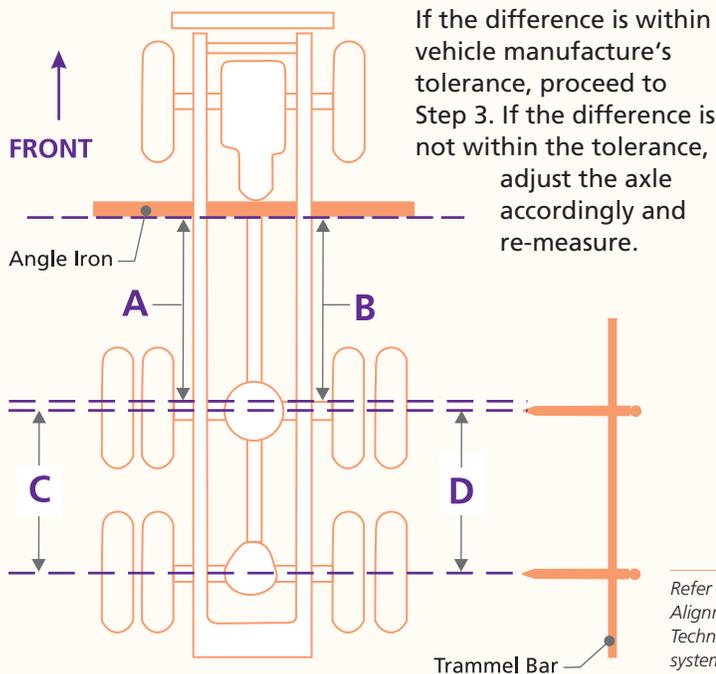
Properly aligned vehicles will have better drive ability, handling, ride quality, as well as reduced tire wear, improved fuel economy and overall performance.

Hendrickson recommends these three easy steps to help ensure proper drive axle alignment. This procedure should be performed after all repairs are completed and all suspension fasteners have been tightened to specified torque values. Check the drive axle alignment regularly based on your vehicle manufacturer's recommendations.

**1** Securely fasten a length of straight angle iron below the frame rail as close to the back of the cab as possible. Square the straight edge to the frame rails using a carpenter's square.

**2** Measure as wide as possible from the angle iron to the axle on the driver's side (A), repeat measurement on the passenger side (B). Calculate the difference between measurements A and B.

**3** After the first drive axle is aligned, measure from the center of the first drive axle to the center of the second drive axle (or use a trammel bar) on the driver's side (C), repeat measurement on the passenger side (D). Calculate the difference between measurements C and D.



If the measurement is within vehicle manufacturer's tolerance the axle is aligned. If the difference is not within the tolerance, adjust the axle accordingly and re-measure.

Repeat Step 3 for any additional drive axles.

Refer to the alignment instructions located under the Alignment & Adjustments Section of the Hendrickson Technical Publication that pertains to your suspension system, available online at [www.hendrickson-intl.com](http://www.hendrickson-intl.com).

*Rear axle alignment not only has implications on rear tires, system components, and ride quality but also on steer tire wear and overall steering capability.*

**And remember...Keep yourself aligned with Hendrickson!**

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## Truck Tech Tips

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