

# **H** ASSEMBLY INSTRUCTIONS

## STEERTEK™ NXT 13.2K • 14.6K Steering Stabilizer Kit for International Truck

**SUBJECT:** Kit No. 66080-011

**LIT NO:** 59310-071

**DATE:** January 2020

**REVISION:** A

### INTRODUCTION

Hendrickson Truck Commercial Vehicle Systems has worked with International Truck to develop Steering Stabilizer Kit No. 66080-011 available for use on an as-needed basis on 13.2K • 14.6K Hendrickson STEERTEK™ NXT front steer axles equipped on applicable International Truck vehicles.

These assembly instructions cover the proper installation of the Steering Stabilizer Kit and certain fasteners to be provided separately by International Truck. This kit is available only through International Truck, who must authorize the installation of the kit.

Contact Hendrickson toll-free at 1-866-755-5968 (U.S. and Canada) with any questions regarding these assembly instructions.

### STEERING STABILIZER KIT

#### DISASSEMBLY

1. Turn the front steer wheels left and right and ensure that the steering knuckle stops contact the axle (it may be necessary to turn the vehicle engine on to perform this step).
2. After checking to see that the wheel stops contact the axle, ensure the tires are returned to the straight position.
3. Turn off vehicle engine (if turned on). Chock the wheels.
4. Raise the vehicle.
5. Support the frame with safety stands and suspend the front axle with the shock absorbers attached.
6. Support the axle with a jack.
7. From the **RIGHT SIDE** of the vehicle (passenger side), remove and discard the **¾" REAR clamp group U-bolt** and fasteners. Note, it is not necessary to remove the other U-bolts to install the stabilizer.

#### Hendrickson Kit No. 66080-011

DESCRIPTION	QTY.
Steering Stabilizer Shock Absorber	1
Tie Rod Mounting Plate	1
Bottom Adapter Plate	1
½"-13 UNC U-bolt	3
½" Hardened Washer	6
½"-13 UNC Nylocknut	6
¾" Hardened Washer	4
¾"-10 UNC 3½" Hex Bolt	2
¾"-10 UNC Locknut	2
Stabilizer Support Spacer	1

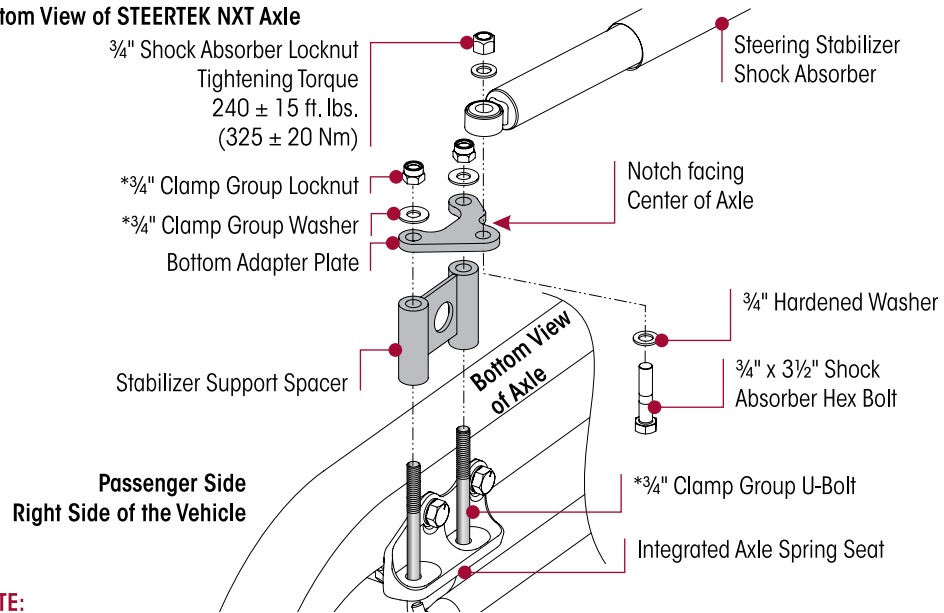


**ASSEMBLY**

1. The new U-bolt is 5/4" longer than the original U-bolt. On the **right side** of the vehicle, install the new 3/4" clamp group U-bolt to be supplied by International Truck onto the integrated axle spring seat in the orientation shown in Figure 1.
2. Install the stabilizer support spacer onto the new 3/4" clamp group U-bolt.
3. Place the bottom adapter plate onto the stabilizer support spacer with the adapter plate notch located towards the center of the axle, see Figure 1.
4. Install the new 3/4" clamp group fasteners and washers. Snug the locknuts. **DO NOT** tighten to torque at this time.

**FIGURE 1**

**Bottom View of STEERTEK NXT Axle**



**NOTE:**

\* The 5/4" longer Clamp Group U-bolt and fasteners are to be supplied and controlled by International Truck. Refer to International Truck for torque specifications.

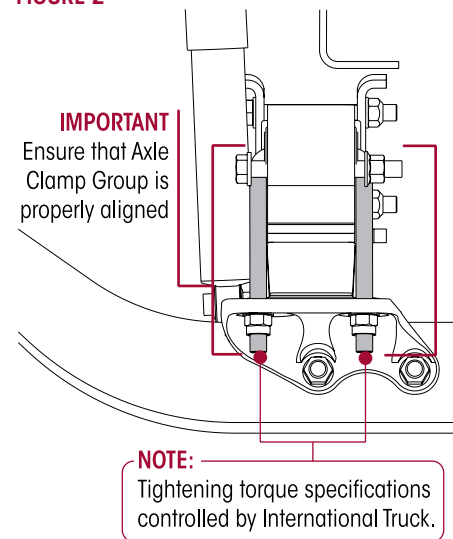


**WARNING**

ENSURE CLAMP GROUP IS ALIGNED PROPERLY PRIOR TO TIGHTENING HARDWARE. FAILURE TO DO SO CAN CAUSE LOSS OF VEHICLE CONTROL, PROPERTY DAMAGE OR PERSONAL INJURY.

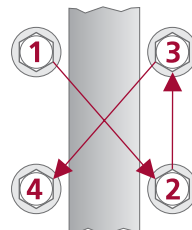
**FIGURE 2**

5. Ensure that the clamp group is properly aligned and the U-bolts are seated properly, see Figure 2.



6. Tighten the clamp group locknuts evenly in 50 foot pounds increments to International Truck's torque specifications in the proper pattern to achieve uniform bolt tension, see Figure 3.

**FIGURE 3**

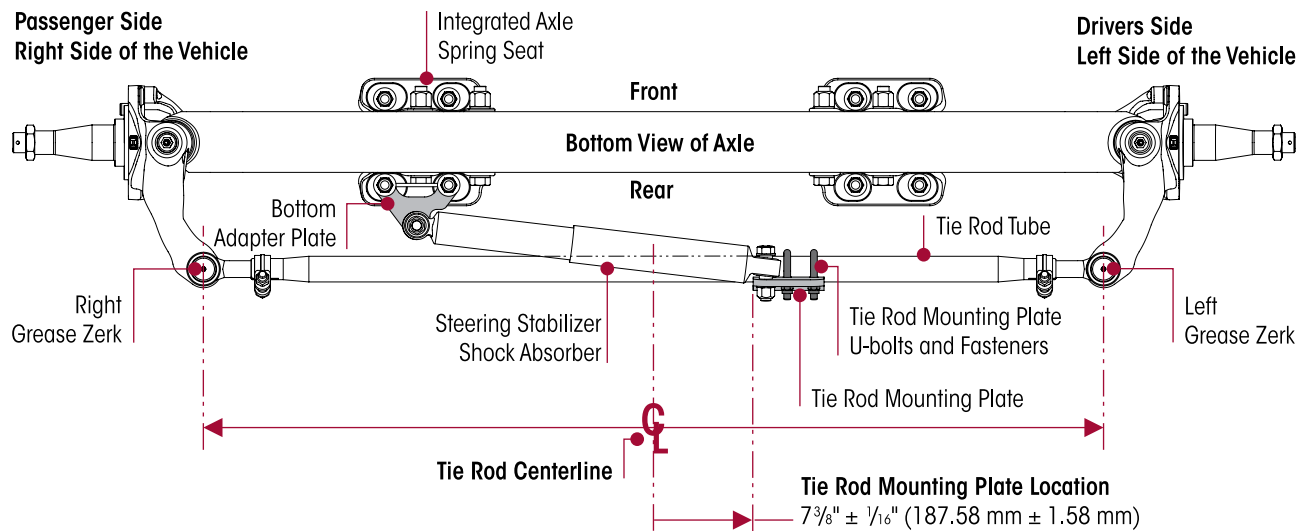


7. Measure the distance between the **left** and **right** grease zerks on the tie rod assembly and divide this measurement in half, this is the tie rod centerline, see Figure 4.
8. Mark the centerline of the tie rod tube, see Figure 4.



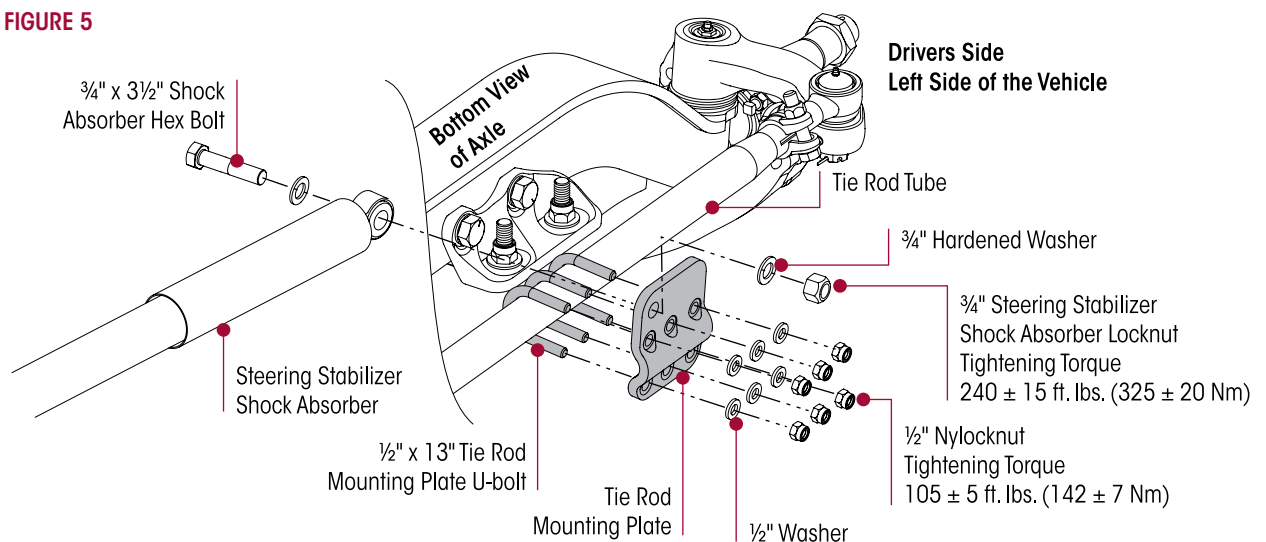
9. Position the tie rod mounting plate  $7\frac{3}{8} \pm \frac{1}{16}$ " (187.58 mm  $\pm$  1.58 mm) to the left of the tie rod centerline (towards the drivers side), see Figure 4.
10. Install the **tie rod mounting plate** and the  $\frac{1}{2}$ " U-bolts and fasteners, see Figure 5. **DO NOT** tighten to torque at this time.
11. Ensure the tie rod mounting plate is affixed in the proper position,  $7\frac{3}{8} \pm \frac{1}{16}$ " (187.58 mm) from the centerline of the tie rod, see Figure 4.
12. Ensure the tie rod ball and sockets are centered with the grease zerks facing straight down and the tie rod mounting plate is in the vertical position, see Figure 4.
13. Tighten the  $\frac{1}{2}$ " tie rod mounting plate U-bolt nylocknuts evenly to  $\mathbb{N}$  105  $\pm$  5 foot pounds (142  $\pm$  7 Nm) torque in a cross pattern to achieve uniform bolt tension, see Figure 5.

**FIGURE 4**  
Bottom View of STEERTEK NXT Axle



14. Install the  $\frac{3}{4}$ " x  $3\frac{1}{2}$ " shock absorber hex bolt through the bottom adapter plate and the steering stabilizer shock absorber. Attach the  $\frac{3}{4}$ " fastener, see Figure 1. **DO NOT** tighten at this time.
15. Install the  $\frac{3}{4}$ " x  $3\frac{1}{2}$ " shock absorber hex bolt through the steering stabilizer shock absorber and tie rod mounting plate. Attach the  $\frac{3}{4}$ " fastener, see Figure 5. **DO NOT** tighten to torque at this time.
16. Tighten the  $\frac{3}{4}$ " shock absorber locknut that attaches to the bottom adapter plate to  $\mathbb{N}$  240  $\pm$  15 foot pounds (325  $\pm$  20 Nm) torque, see Figure 1.

**FIGURE 5**





17. Tighten the 3/4" shock absorber locknut that attaches to the tie rod mounting plate to  $240 \pm 15$  foot pounds ( $325 \pm 20$  Nm) torque, see Figure 5.
18. Verify the vehicle can achieve full left and right wheel cut without the steering stabilizer running out of travel. If the wheel cut test fails, adjust the location of the tie rod mounting plate to the left or right to achieve full wheel cut.
19. Remove safety stands.
20. Remove chocks from wheels.

Refer any questions on this publication, contact Hendrickson Tech Services:



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Actual product performance may vary depending upon vehicle configuration, operation, service and other factors. All applications must comply with applicable Hendrickson specifications and must be approved by the respective vehicle manufacturer with the vehicle in its original, as-built configuration. Contact Hendrickson for additional details regarding specifications, applications, capacities, and operation, service and maintenance instructions.

Call Hendrickson at **1.866.755.5968** (toll-free) or **1.630.910.2800** for additional information.



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