

# TECHNICAL PROCEDURE

## TRAILER SUSPENSION SYSTEMS HT250US, HT300US AND CXU

**SUBJECT:** Shock Mount Assembly Procedure

**LIT NO:** L725

**DATE:** January 2018

**REVISION:** A

### INTRODUCTION

The procedures in this document apply to shock bolt replacement kits for Hendrickson HT™ SERIES HT250US, HT SERIES HT300US, CONNEX™ CXU 23K and CONNEX CXU 25K suspension systems.

**IMPORTANT:** Hendrickson does not recommend reusing fasteners. Bolt metal and threads are stressed when tightened. Duplicating clamp loads under torque is not assured for used fasteners.

**IMPORTANT:** **DO NOT** apply additional lubricant to fastener threads. Doing so will reduce the friction between fastener components which can lead to overtightening, unpredictable clamp loads and unreliable fastener connections.

**IMPORTANT:** If the proper clamp load is not achieved, shock failure may occur and may result in damage to the suspension and/or its components.

**NOTICE:** This procedure applies to **Hendrickson Genuine Parts** used in the performance of these procedures. **Hendrickson shock eyelets have a solid inner metal insert that will not crush under the specified clamp loads.**

For general safety and precautionary statements, refer to Hendrickson literature number [T12007](#), available at [www.Hendrickson-intl.com/TrailerLit](http://www.Hendrickson-intl.com/TrailerLit).

For assistance in the United States and Canada, call Hendrickson Trailer Technical Services at 866-RIDEAIR (743-3247) or e-mail [HTTS@Hendrickson-intl.com](mailto:HTTS@Hendrickson-intl.com).

### SHOCK MOUNT BOLT REPLACEMENT

Shock mount bolt kits can include replacement parts for lower or both shock mount assemblies. These procedure include steps for assembling fasteners for both upper and lower shock mounting brackets.

#### REMOVING SHOCK

1. **If applicable, remove** both the upper and lower shock bolt hardware and the shock absorber.
2. **Discard** removed bolt(s) and related hardware.

#### LOWER SHOCK MOUNT REASSEMBLY

Use this procedure to install the lower shock mount hardware ([Figure 1](#)).

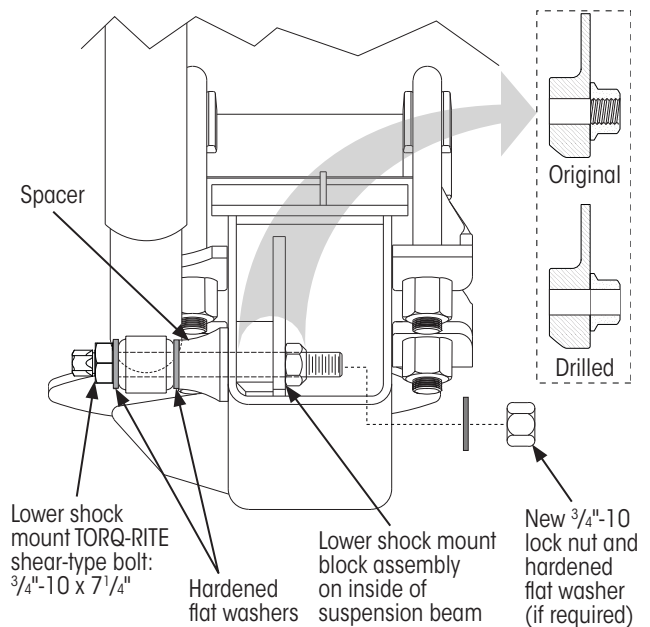


Figure 1: Lower shock bolt assembly

1. **Inspect** threads on the existing lower shock bolt and lower shock mount block assembly ([Figure 1](#)). **If the threads are OK, skip to Step 3.**

**NOTE:** Step 2 is required for suspensions built prior to 1999 with a 3/4"-16 x 5 1/4" lower shock bolt.

2. Drill out threads if the original nut using a 3/4-inch drill bit (Figure 1).

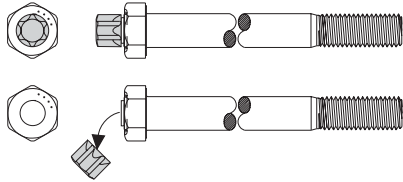


Figure 2: TORQ-RITE® shear-type hex-head bolt

3. Assemble the new 3/4"-10 x 7 1/4" TORQ-RITE shear-type hex-head bolt (Figure 2) onto the shock with two harden flat washers and spacer as shown in (Figure 1). New fastener hardware is supplied with the service parts kit.
4. Insert threaded end of the bolt into the lower shock mount block assembly.
5. If the threads of the lower shock mount block assembly were **not drilled out**, skip the next two steps.
6. Reaching through the rear of the suspension beam, slide the third hardened flat washer (supplied with the service parts kit) over the threads of the lower shock bolt (Figure 1).
7. Thread the new torque-prevailing nut onto the threads of the bolt.
8. Hand tighten the lower shock bolt.

**NOTE:** If the threads were drilled out, hold the torque-prevailing nut with a 1 1/8-inch wrench while tightening with tools.

9. Using a Torx E20 3/4-inch drive socket and 3/4-inch impact wrench, tighten the TORQ-RITE shear-type hex-head bolt until the shear head feature separates from the bolt head as shown in Figure 1. This will occur at 225±10 ft. lbs. (300±10 Nm).
10. Visually check all components to ensure fasteners are tight.
11. Discard any unused parts.

## UPPER SHOCK MOUNT BOLT REASSEMBLY

When replacing a shock, it is usually best to assemble the shock to the upper mounting bracket first.

1. Insert the 3 1/4-inch shock bolt through the shock.
2. Thread the lock nut onto the upper shock mount bolt.

**NOTE:** Do not torque bolts until both upper and lower shock mounts are assembled.

3. Hold upper nut with 1 1/8-inch wrench and tighten the upper shock bolt to 225±10 ft. lbs. (300±10 Nm) of torque.
4. Visually check all components to ensure fasteners are tight.

Call Hendrickson at 866.RIDEAIR (743.3247) for additional information.



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