TECHNICAL PROCEDURE

TRAILER SUSPENSION SYSTEMS HT250US, HT300US AND CXU

SUBJECT: Shock Mount Assembly Procedure

LIT NO: L725
DATE: September 2018 **REVISION:** B

INTRODUCTION

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

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.

SHOCK MOUNT BOLT REPLACEMENT

Shock mount bolt kits can include replacement parts for lower or both shock mount assemblies. These 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.

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 3¼-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.

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LOWER SHOCK MOUNT REASSEMBLY

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

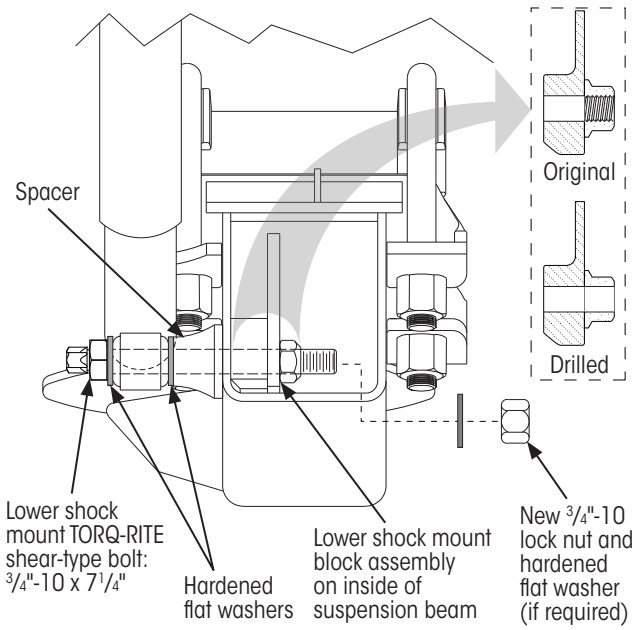

Figure 1: Lower shock bolt assembly

1. **Inspect** threads on the existing lower shock bolt and lower shock mount block assembly (Figure 1). **If the threads are undamaged, 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. It is also required if the bolt broke in the nut during removal.

2. **Using** a 3/4-inch drill bit, **drill out** the broken bolt or threads in the original nut (Figure 1).

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.

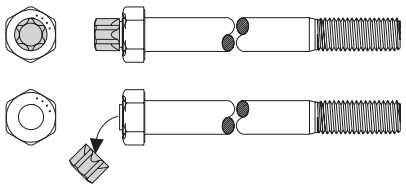

Figure 2: TORQ-RITE® shear-type hex-head bolt

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 2. 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.

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

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