



SURGE ACTUATORS

HYDRAULIC SURGE BRAKE ACTUATION

INSTALLATION INSTRUCTIONS

Multi-fit Coupler Repair Kit - Dexter DX7.5 (Legacy Titan Model 60)

CAUTION

The DX7.5 (Legacy Titan Model 60 Multi-fit) Multi-fit surge actuator is designed for use with a 2" or 1-7/8" hitch ball rated for the Gross Vehicle Weight of the trailer and the Model 60 actuator.

A ball within the diameter limits of 2.00" maximum and 1.845" minimum must be used. Failure to use the proper sized tow ball for adjustment or in actual use can result in shock loading to the coupler or a trailer disconnection in the worst case.

REMOVAL OF EXISTING COMPONENTS:

Important note: The components being removed may differ than the components being supplied in kit K74-325-00. The kit contains new and improved components. Do not use any of the existing components from your unit. Use only the new components supplied in kit K74-325-00. Pictures may vary slightly from your unit depending on date of manufacture.

1. Extend coupler all the way forward, ensuring the shock damper is fully extended. This step will make the repair possible.
2. Using needle nose pliers remove the lock ring clip from the adjustable handle bolt and discard as shown in Figure 1. Next, while holding the ball latch and bolt from underneath the coupler, remove the multi-fit handle (hand wheel) by turning counter clockwise and discard. (see Figure 2)

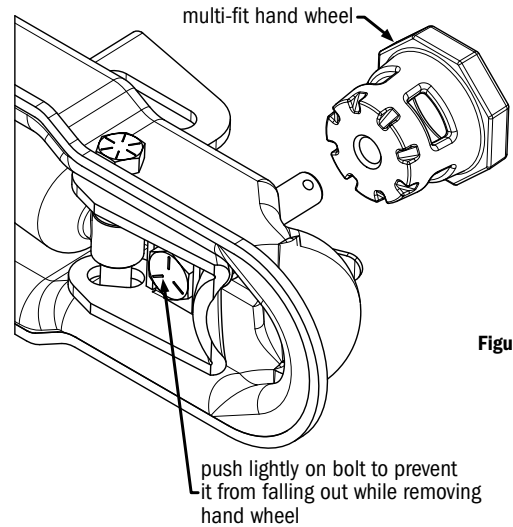


Figure 2

3. Push the 1/2" hex bolt out through the bottom of the coupler, removing all attaching hardware and discard. (see Figure 3)

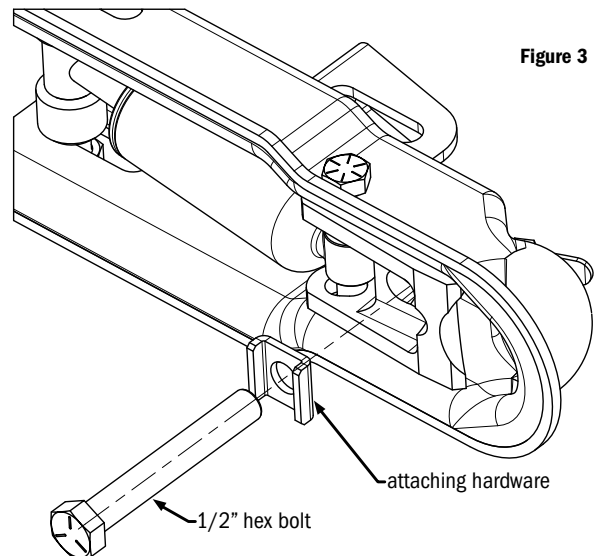


Figure 3

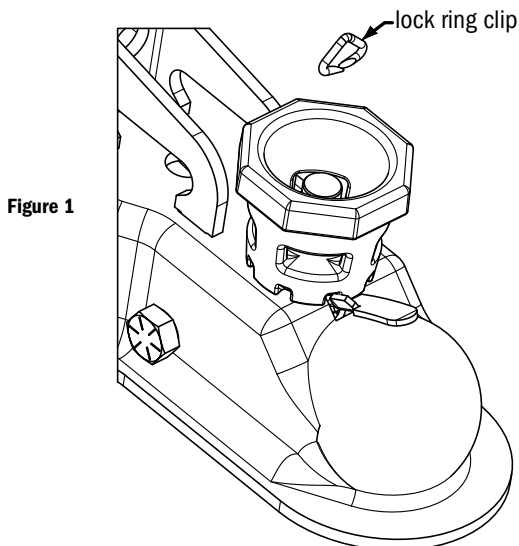


Figure 1

- Using a 5/8" & 11/16" socket or box wrench, remove the attaching bolt & lock nut that goes through the ball latch and shock damper while holding onto the ball latch, swing the shock damper out of the way. Discard the nut and bolt. Remove the ball latch, tapered compression spring, and the hand wheel lever lock and discard. (see Figure 4)

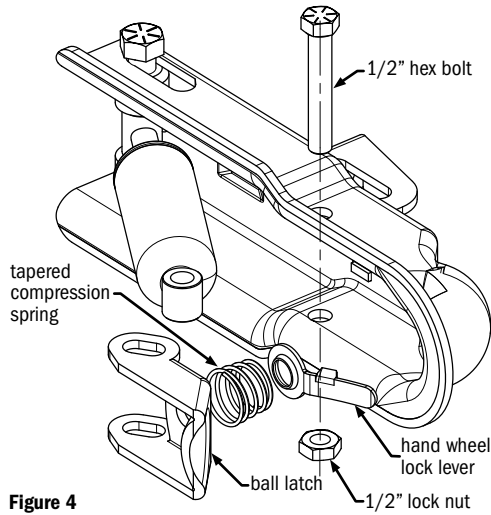


Figure 4

- Examine the coupler case for any damage or excessive wear. If any exist the entire actuator unit should be replaced.

INSTALLATION OF REPLACEMENT COMPONENTS:

- Prepare the new ball latch jaw by first sliding the retainer bracket onto the 1/2" hex bolt, making sure the hex of the bolt is seated inside the retainer bracket as shown in as shown in Figure 5. Next slide the bolt and retainer into the ball latch, orientate as shown in Figure 6. Slide the tapered compression spring over the hex bolt with the larger diameter end of the spring first, also shown in Figure 6.

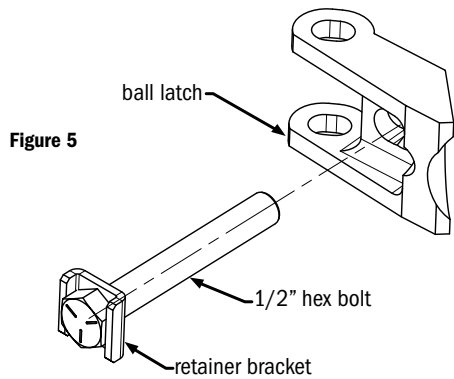


Figure 5

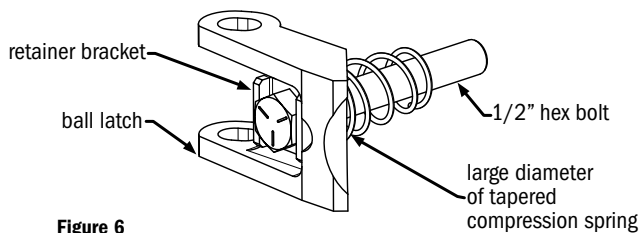


Figure 6

- From the ball side of the coupler, feed the handle end of the hand wheel lock lever through the notch in the coupler case. Be sure the tab is facing up as shown in Figure 7. While holding the hand wheel lock lever in place, slide the new ball latch assembly, as shown in Figures 6 & 8, up through the lever latch hole and coupler case seating the top coil of the spring around the raised ridge on the hand wheel lock lever as shown in Figure 8. While holding the ball latch assembly and spring compressed against the hand wheel lock lever, hand tighten the multi-fit hand wheel onto the hex bolt threads a couple of turns clockwise. (see Figure 9)

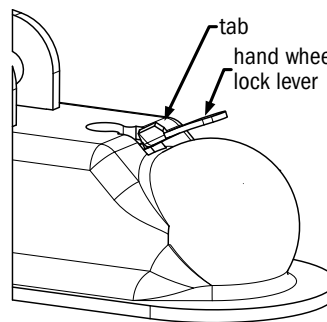


Figure 7

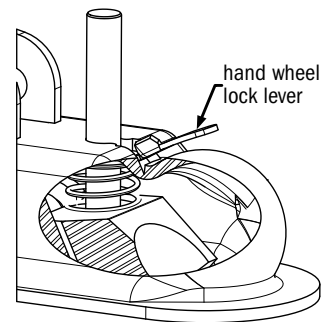


Figure 8 cutaway view

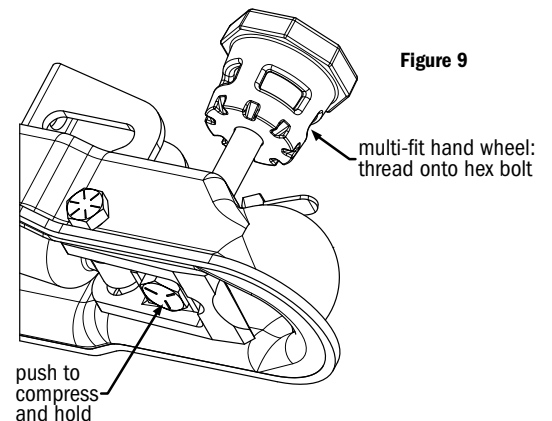
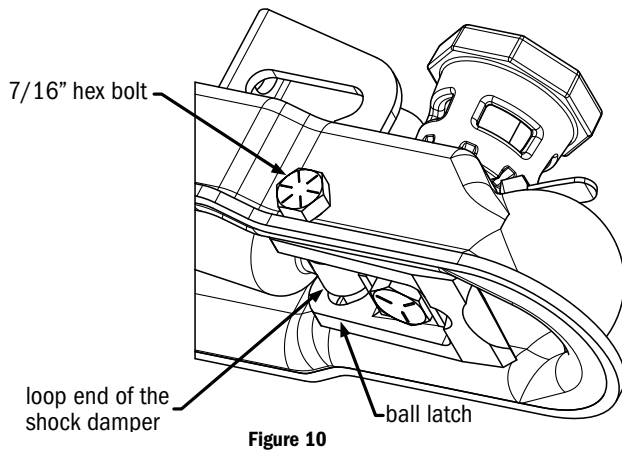


Figure 9

- Slide the new 7/16" x 2-5/8" bolt through the coupler, loop end of the shock damper, and ball latch. Install the 7/16" lock nut onto the bolt hand tight. It may be necessary to back off the multi-fit handle to better align all components while installing the 7/16" hex bolt. (see Figure 10)



- Torque the 7/16" nut previously installed hand tight in step 3, to 15 ft.-lbs., using a torque wrench & 5/8" socket and an 11/16" wrench.
- Install the 1/2" lock nut with locking feature up onto the 1/2" hex bolt until 2 threads of the bolt extrudes through the top of the lock nut. (see Figure 11)

