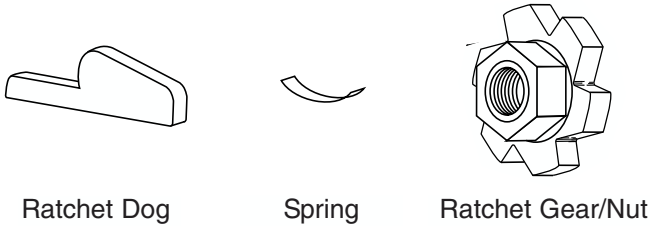


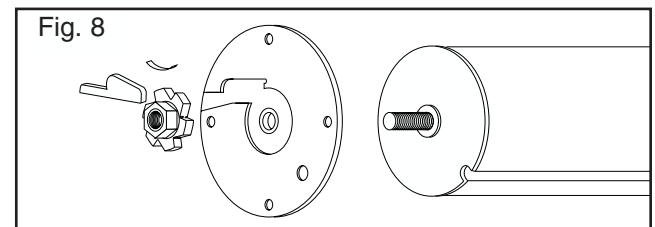
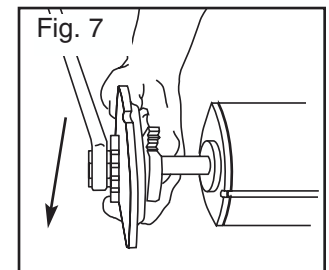
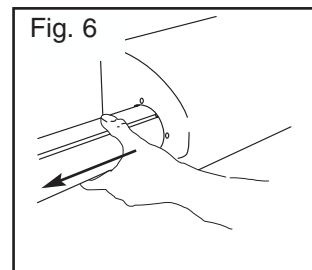
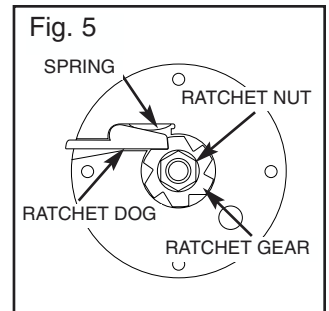
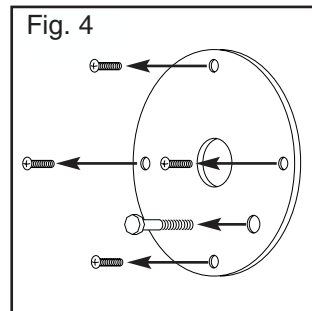
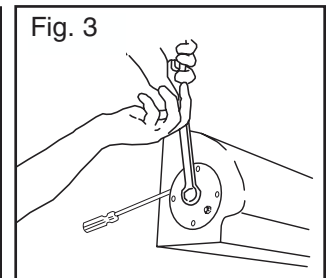
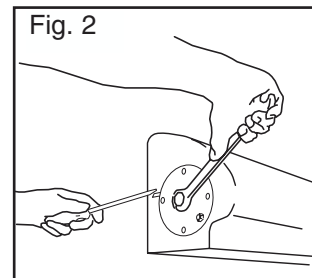
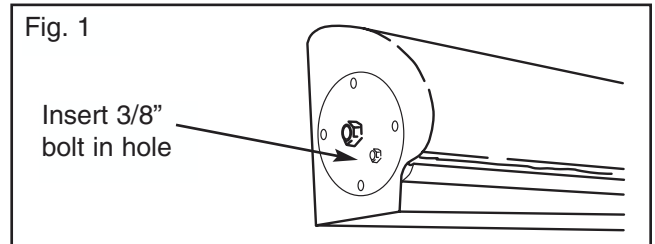
## Parts Provided To Replace Ratchet Assembly



## Required Tools:

- Flat Blade Screw Driver
- #2 Phillips Screw Driver
- 3/4" Box End Wrench
- Vise Grips or Channel Locks
- Red Lock Tight

1. Pull the tarp all the way out over the tailgate.
2. Insert a 3/8" x 3 bolt through the hole in the ratchet cover plate and into groove in the roller tube (Fig. 1)
3. Slide tarp out of the roller tube through the end plate that is slotted (opposite ratchet end).
4. Release tension on roller assembly by carefully following these steps.
  - A. With 3/4" box end wrench, turn ratchet nut clockwise just far enough to relieve tension on ratchet dog.
  - B. Place flat blade screwdriver on top of ratchet dog to disengage it from the ratchet gear (Fig. 2).
  - C. With **both hands** turn wrench counter clockwise to remove all tension from the spring (Fig. 3). Do not let go of the wrench! (**Be sure all tension is released**)
5. Remove 3/8" bolt from the groove in the roller tube and ratchet cover plate.
6. Remove the four screws from ratchet plate cover and carefully take off the plate (Fig. 4).
7. Remove ratchet dog and spring (Fig. 5).
8. Pull the entire roller assembly out the side of the roller housing (Fig. 6).
9. Use a pair of vise grips or channel locks to secure spring shaft and remove ratchet nut (Fig. 7).
10. Remove ratchet housing. Do not remove nylon washer from spring shaft (Fig. 8).



11. Replace ratchet housing and gear/nut on end of spring shaft by carefully following these steps.
  - A. Slide ratchet cover onto the end of the spring shaft (Fig. 10).
  - B. Apply Red Lock-Tight to threads and tighten the ratchet gear/nut using a 3/4" box end wrench while holding the shaft with vise grips or channel locks. Tighten snugly but don't over tighten (Fig. 11).
12. Slide roller assembly into roller housing and seat end cap onto stub shaft (Fig. 12 & 13). Be sure nylon washer is in place.
13. The ratchet housing must be installed on the roller housing with the large hole in the lower right position and ratchet dog horizontal. Place new dog in dog slot and engage it in the gear teeth. Place new dog spring on top of dog with open end of arch facing up (Fig. 14).
14. Replace ratchet cover plate and secure all four screws into housing (Fig. 15).
15. Slide tarp into groove in roller. Make sure tarp is centered on roller.
16. Fully extend tarp as far out over tail gate as possible.
17. With tarp fully extended place a 3/4" wrench on the ratchet nut and turn clockwise. This will retract the tarp and create tension on the spring.
18. Retract the tarp all the way back to the housing then cycle the tarp a couple of times. If more tension is required fully extend the tarp add more turns to the ratchet nut as needed. If too much tension is applied, refer to step 4 to release some of the tension.

