Mounting the Arm Roller Tube Conversion Kit to the Housing

Steps Required:
1. Mount Arm Roller Tube Conversion Kit to Housing
2. Converting Roller Tube to Electric Drive

Tools Required:
- Center Punch
- Hammer / Dead Blow
- 7/16" Wrench & Socket w/ ratchet
- 1/2" Wrench & Socket w/ ratchet
- #2 Phillips Screw Driver
- Flat Blade Screw Driver
- 3/8" Socket
- 3/4" Wrench
- Hack Saw
- Drill Motor
- 11/32" Drill Bit
- 1/4" Drill Bit
- 1/8" Drill Bit

Warning:
A specially reinforced pocket is sewn onto all tarps used with Motor Powered Operation. Failure to do so could result in serious injury. It is important that your tarp be modified before being used with the Electric Arm System! The tarp can be reordered specifically for the Electric Arm System or modified. See Tarp Modification Instructions.

1. Slide arm roller mounting brackets on to the lip of the housing.
2. Slide aluminum shaft into the arm roller bracket and through the PVC rollers (Fig. 1).
3. Center punch hole locations for the two arm roller brackets at each end of the housing. The center bracket does not require a bolt.
4. Drill 5/16” holes for the mounting brackets at each end.
5. Bolt mounting brackets in place.
6. Attach 2” fender washers to the ends of the aluminum shaft using the 1/4 x 20 x 1” slotted hex screws.
Converting Roller Tube to Electric Drive

Step 1. Removing the Spring
Remove the 3/8” bolt covering the access hole in the ratchet cover. Pull the tarp all the way out, secure to the tailgate. Insert a 3/8” x 3” bolt through the hole in the ratchet cover plate and into the groove in the roller tube (Fig. 1).

Step 2. Remove Tarp from Housing
Slide the tarp out of the roller tube through the slotted end plate (opposite side as ratchet) (Fig. 1).

Step 3. Releasing the Spring Tension on the Roller Assembly
A. With a 3/4” box end wrench, turn the ratchet nut clockwise just far enough to relieve tension on the ratchet dog.
B. Place flat blade screwdriver on top of the ratchet dog to disengage it from the ratchet gear.
C. With both hands, turn the wrench counter clockwise to remove all of the tension from the spring. Do not let go of wrench! (be sure all of the tension has been released)

Step 4. Removing the Ratchet Cover Plate
Remove the four screws from the ratchet cover plate and carefully take the plate off.

Step 5. Remove the Roller Tube
Pull the entire roller tube assembly out the side of the housing (Fig. 3).

Step 6. Removing the Spring Assembly
A. Place a piece of cardboard on the ground and hold the roller assembly vertically, with the ratchet assembly towards the ground.
B. Shake the roller assembly up and down above the cardboard to pop the end cap and spring assembly free from the roller tube (Fig. 4). The cardboard is to protect the end of the spring shaft when it breaks free.
Step 7. Shortening the Roller Tube
Cut 5/8” off the roller tube. File the edges smooth (Fig. 5).
Note: Care must be taken to insure that the cut is made square!

Step 8. Reinserting the Roller Tube End Cap
Using a Dead Blow Hammer or a block of wood. Insert the roller drive end cap into the roller tube. Be careful not to damage the end cap!

Step 9. Setting the Motor Drive Adaptor Plate
Place the motor drive adaptor plate against the housing and align the 4 small holes. The motor drive adaptor plate has a large 11/32” hole. This hole must be to the front of the vehicle for the motor windings to point upward. Secure in place with the 4 10/32 x 1/2” phillips screws provided.
Using the 11/32” hole in the motor adaptor plate as a guide, center punch and drill a 11/32” hole in the housing. Remove the 4 phillips screws and adaptor plate.

Step 10. Reinstalling The Roller Tube
Slide the roller tube into the housing. The aluminum roller drive cap must face the motor.
Reattach the adaptor plate using the 4 phillips screws.
Align the motor on adaptor plate so that the mounting holes on the adaptor line up with the mounting flanges cast on the motor. Also, insert the motor shaft into the roller drive cap.

Step 11. Installing The Motor
Attach the motor using the 5/16” x 1” bolts provided.
Install 5/16” x 1 3/4” bolt through the roller drive cap and motor shaft. (Fig. 6)
S8 ROLLER CONVERSION

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<td>517-0106</td>
<td>1 1/4&quot; GREY PVC (CUT TO SIZE)</td>
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