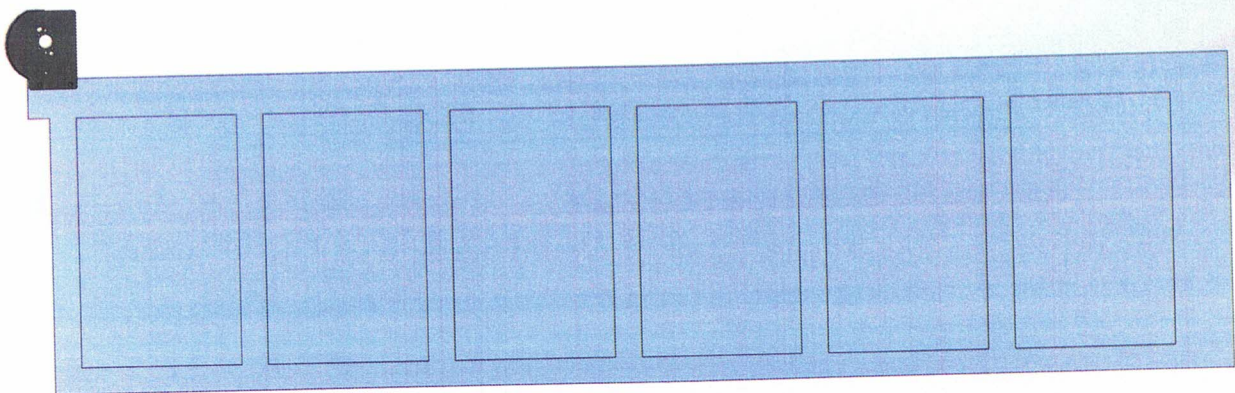
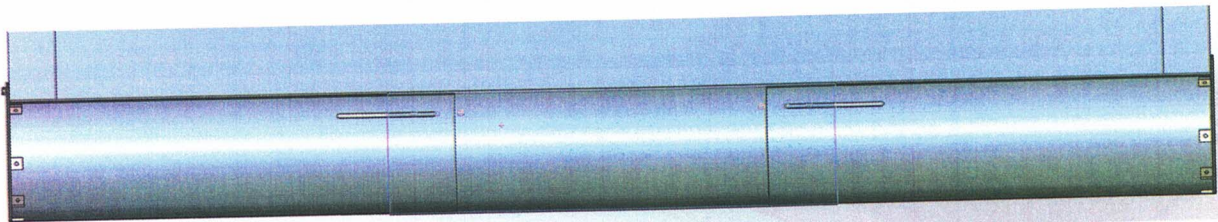
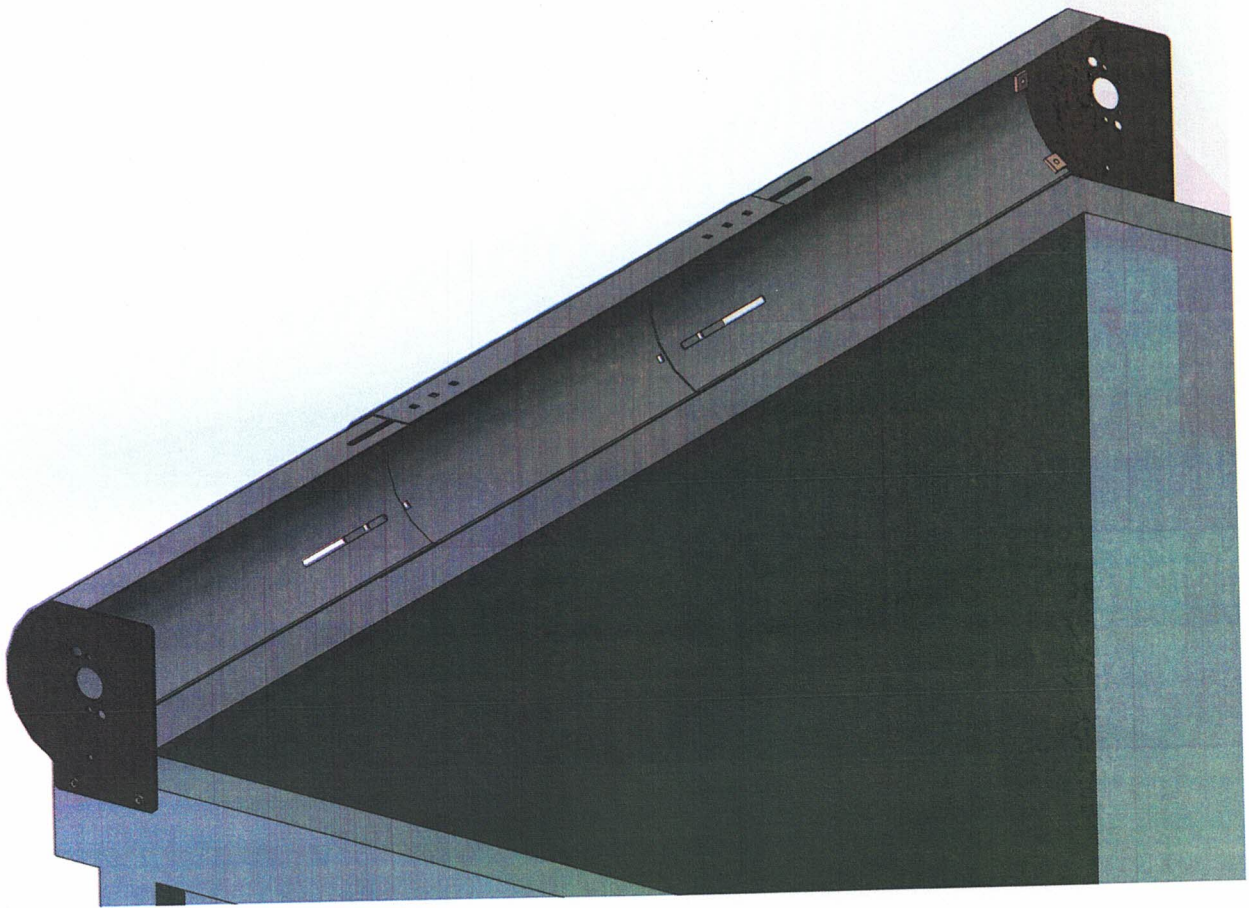
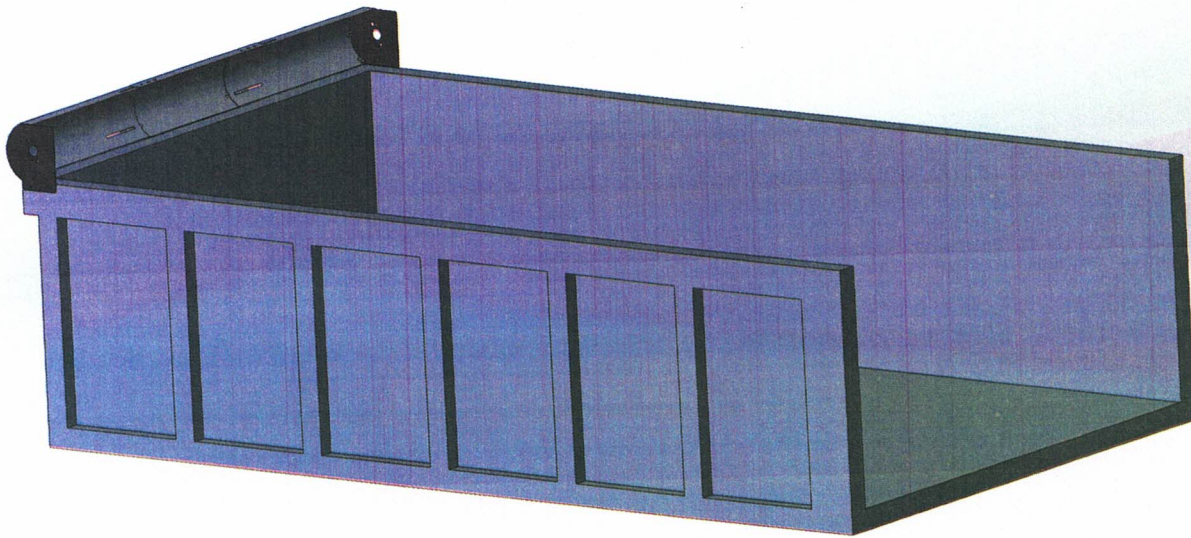
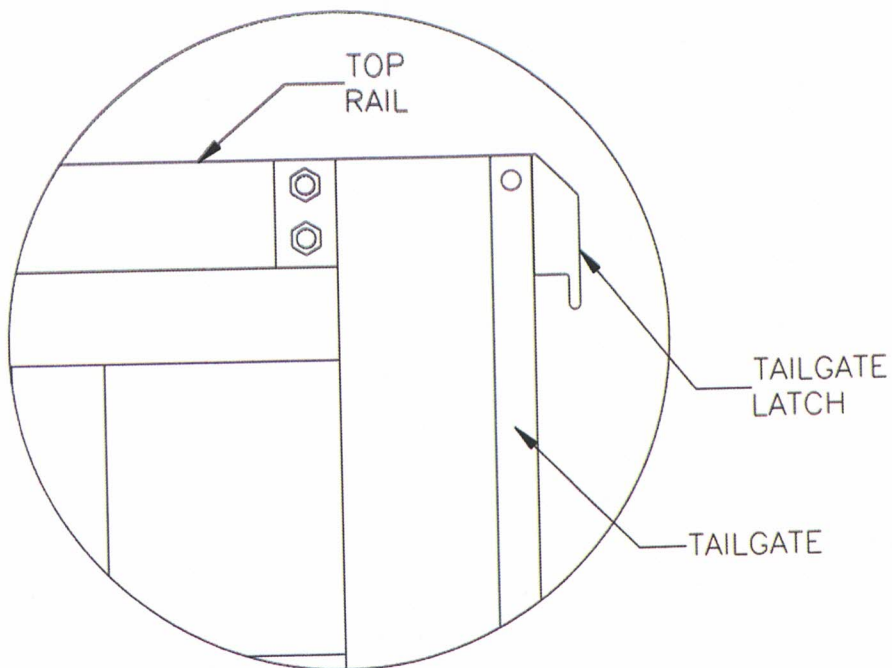


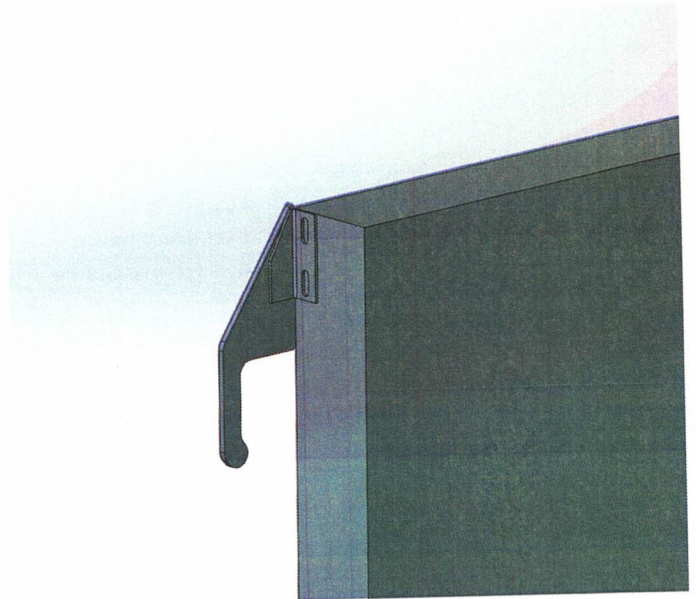
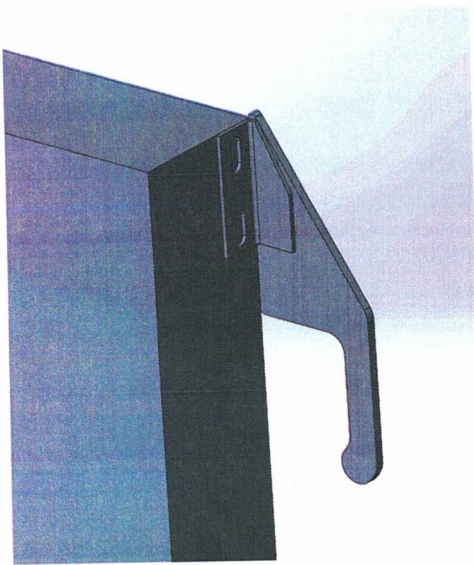
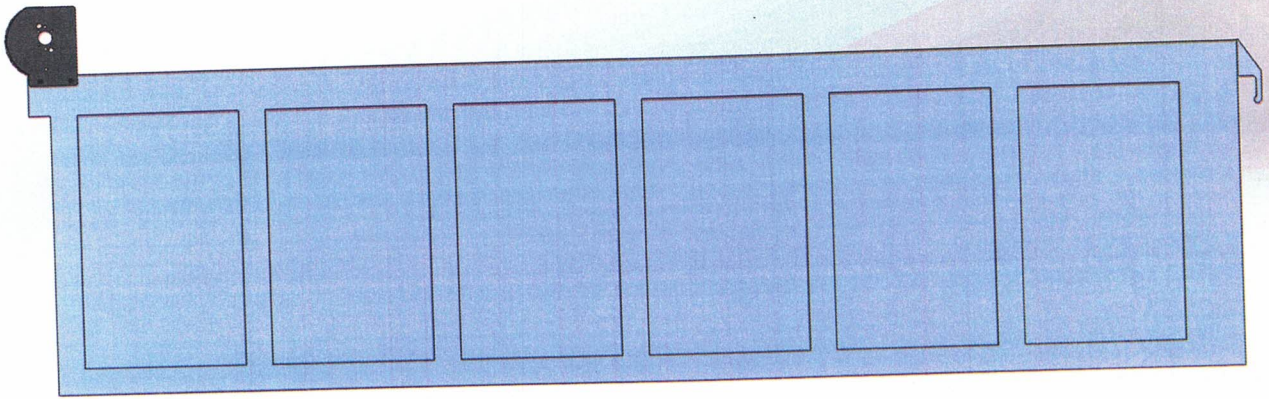
1. Adjust the width of housing and secure the two side plates to the body. Mounting the side plates can be done either by bolting through the side wall or welding them to the body.



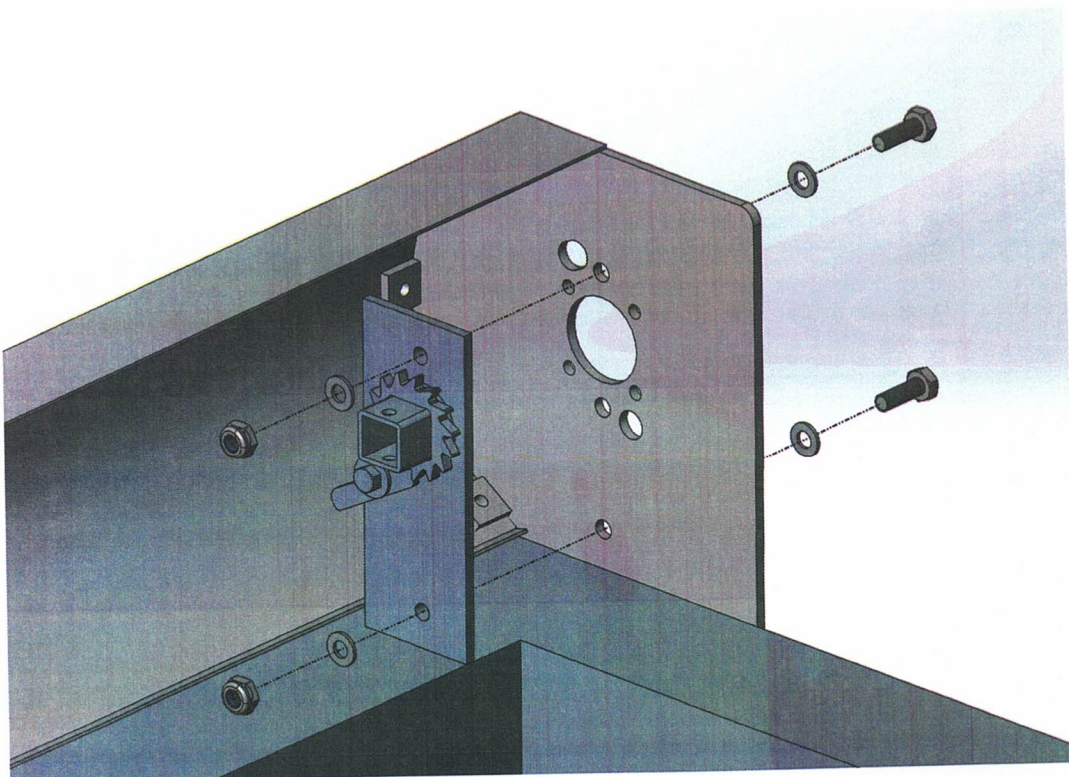


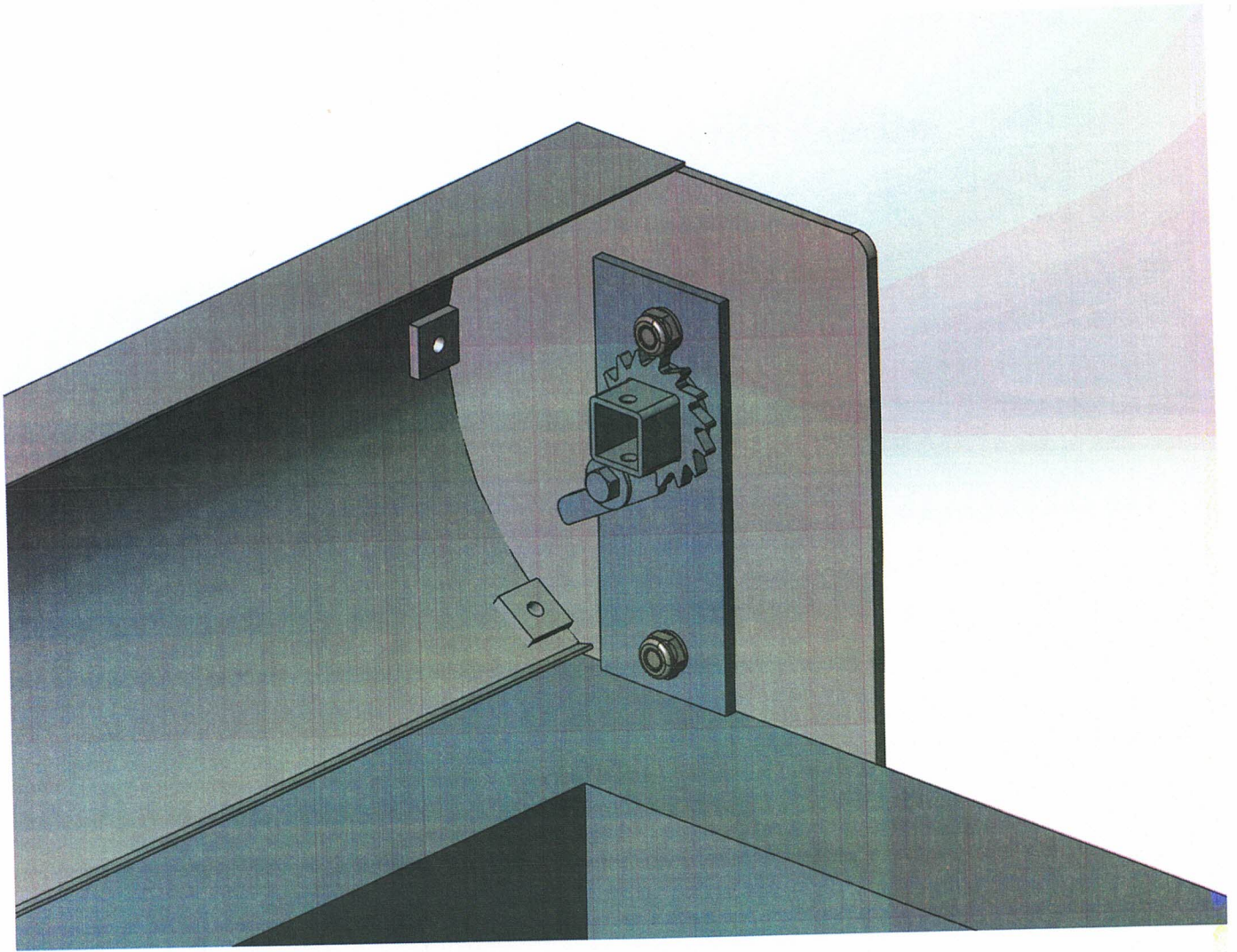
2. On the back of the vehicle mount (weld or bolt) the tailgate latch to the top edge of the tailgate in location that allows the pull bar to transition smoothly over the tailgate and latch under the tailgate latch. Spring tension of the roller bar will lock the pull bar snugly against the tailgate latch. Please use the additional angle brackets if needed.



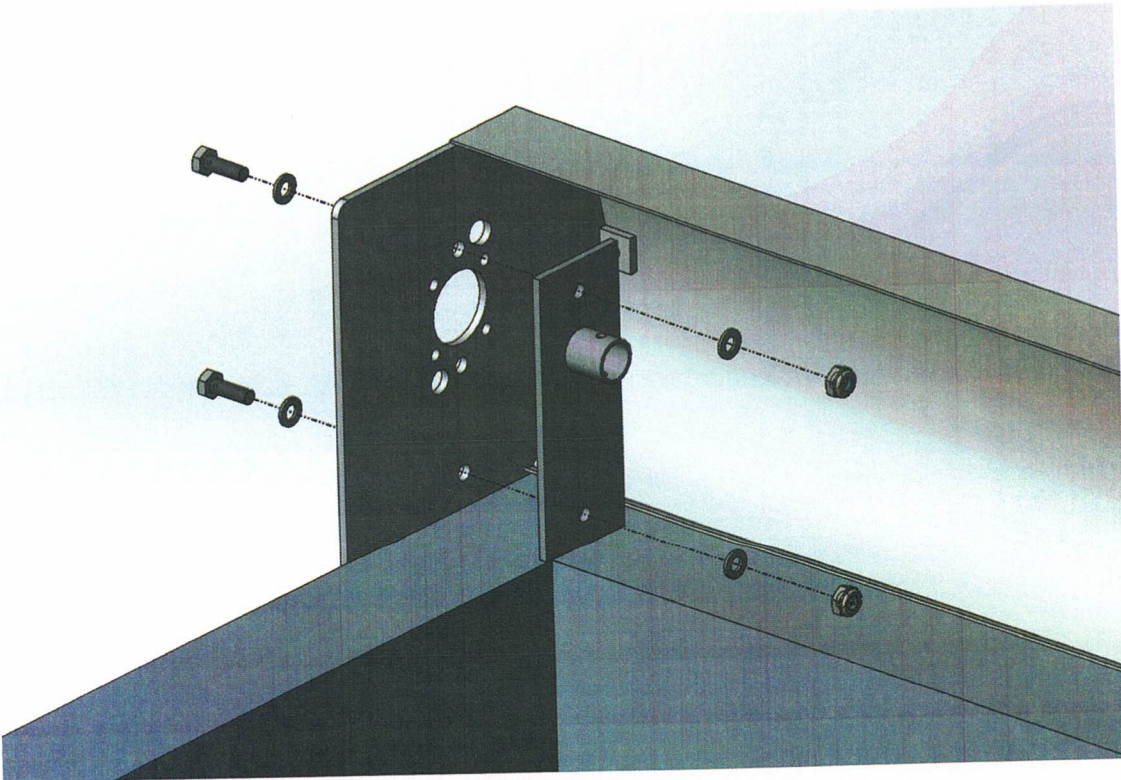


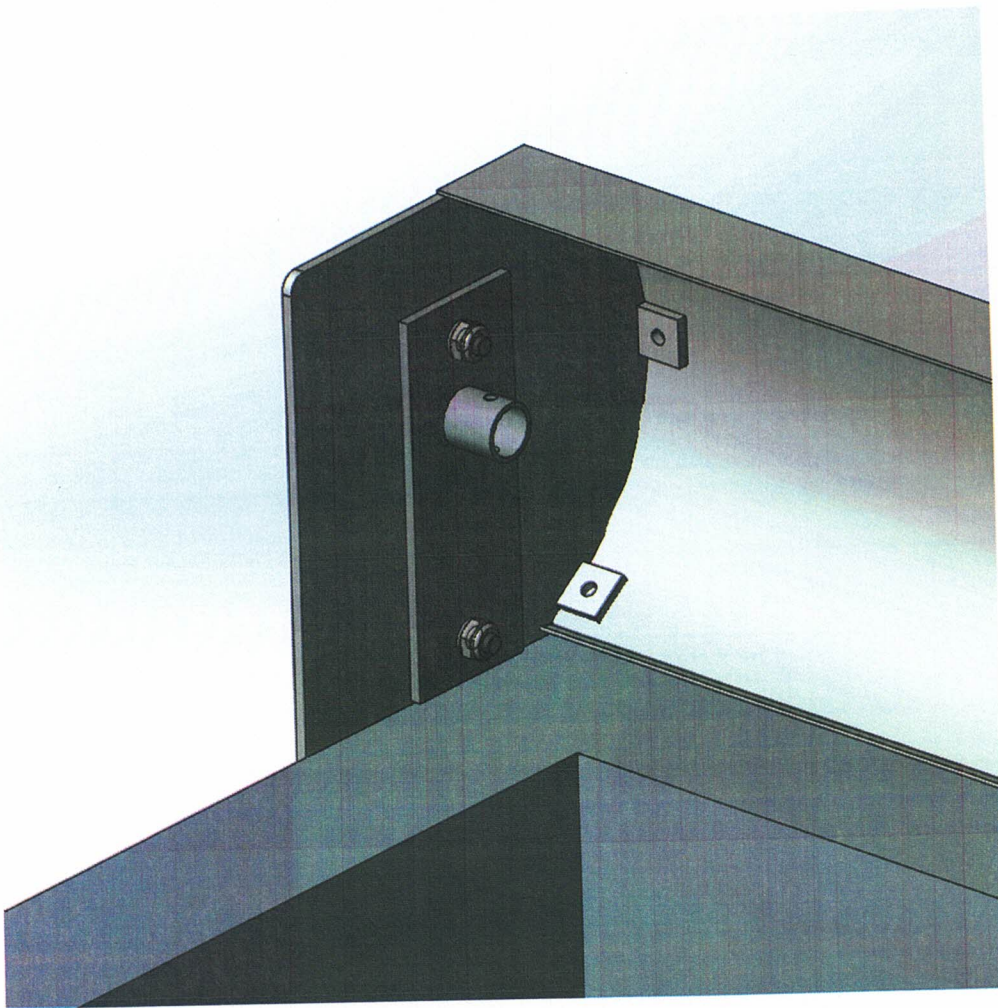
3. Mount the ratchet plate to the housing outside plate like shown below and secure it with two M10 bolts.



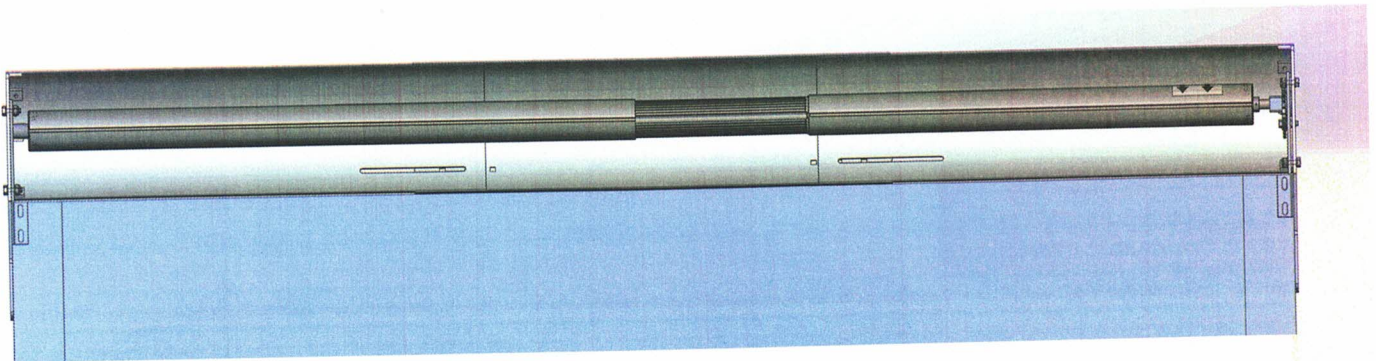


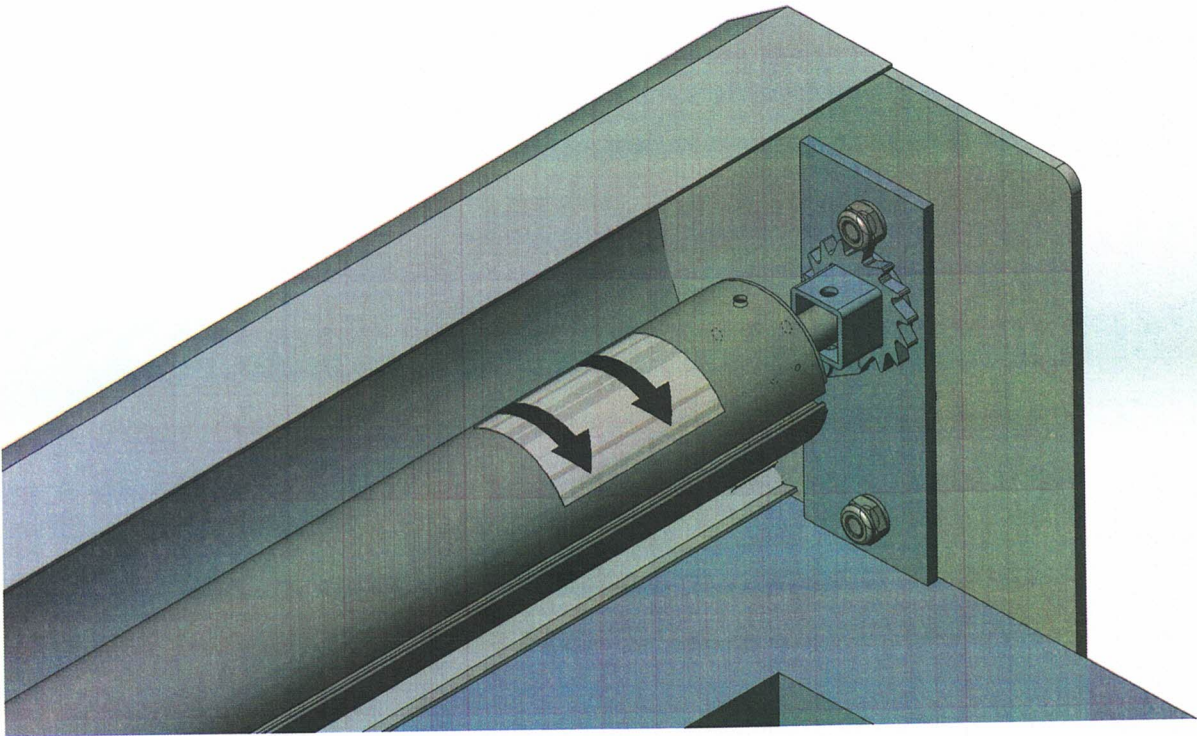
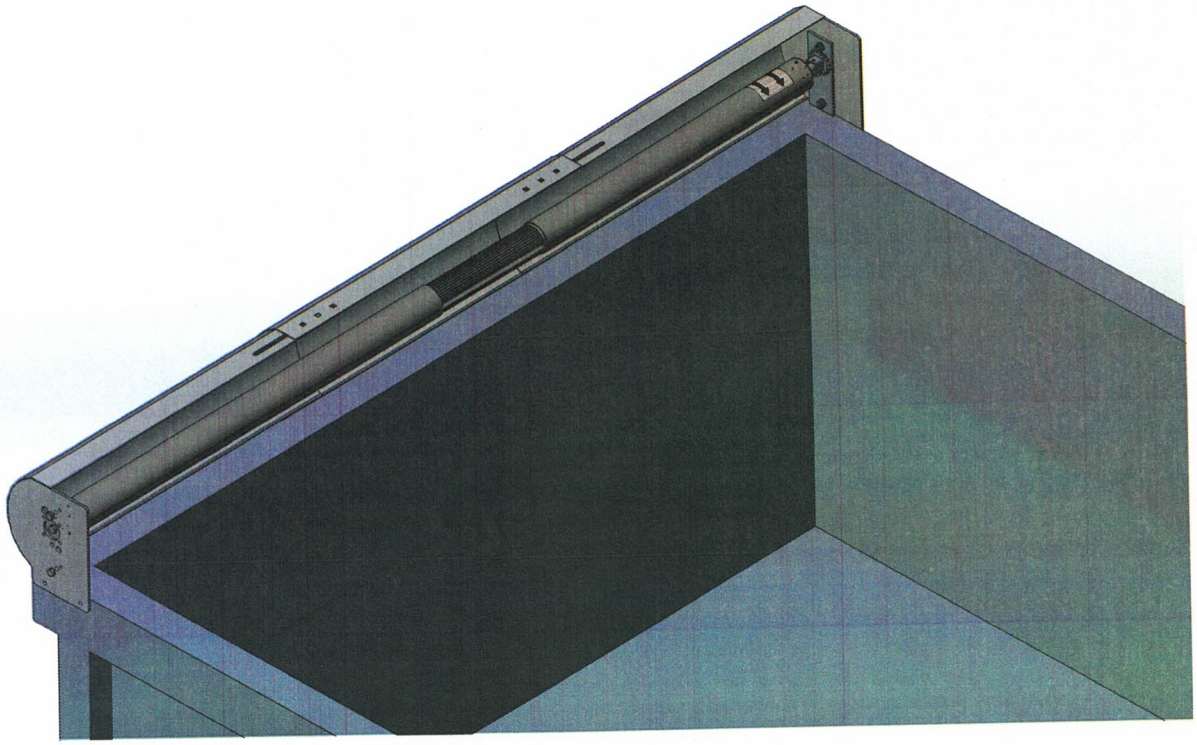
4. On the opposite site of the housing mount the fix nipple plate and secure it to the housing with two M10 bolts.



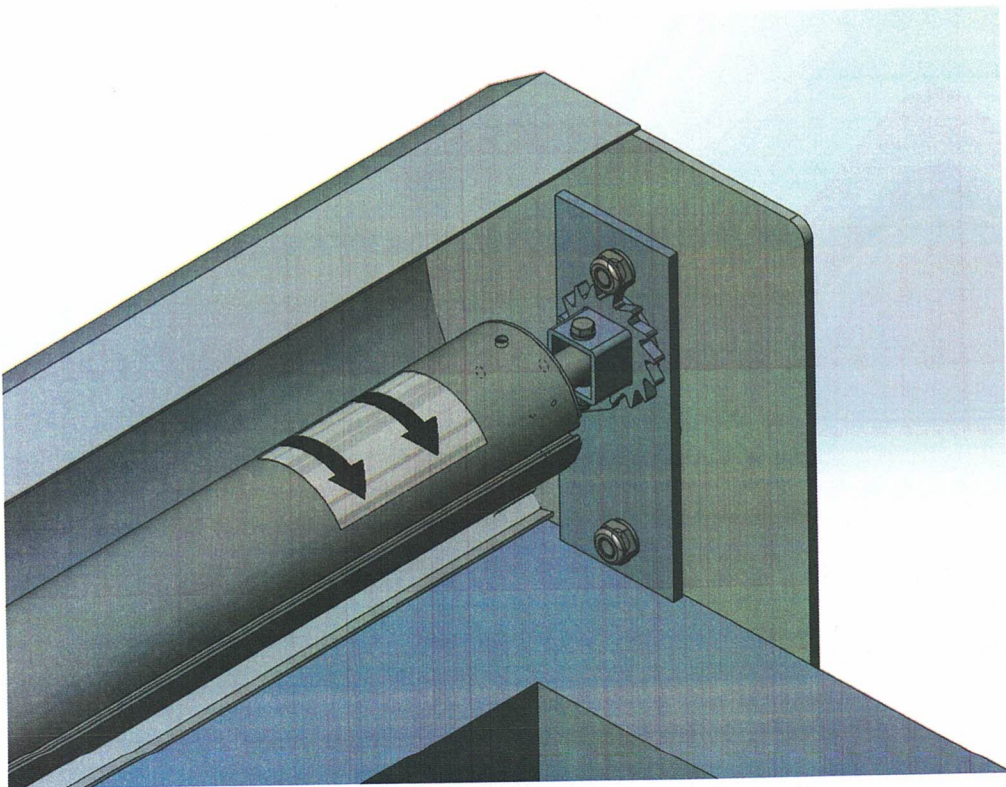
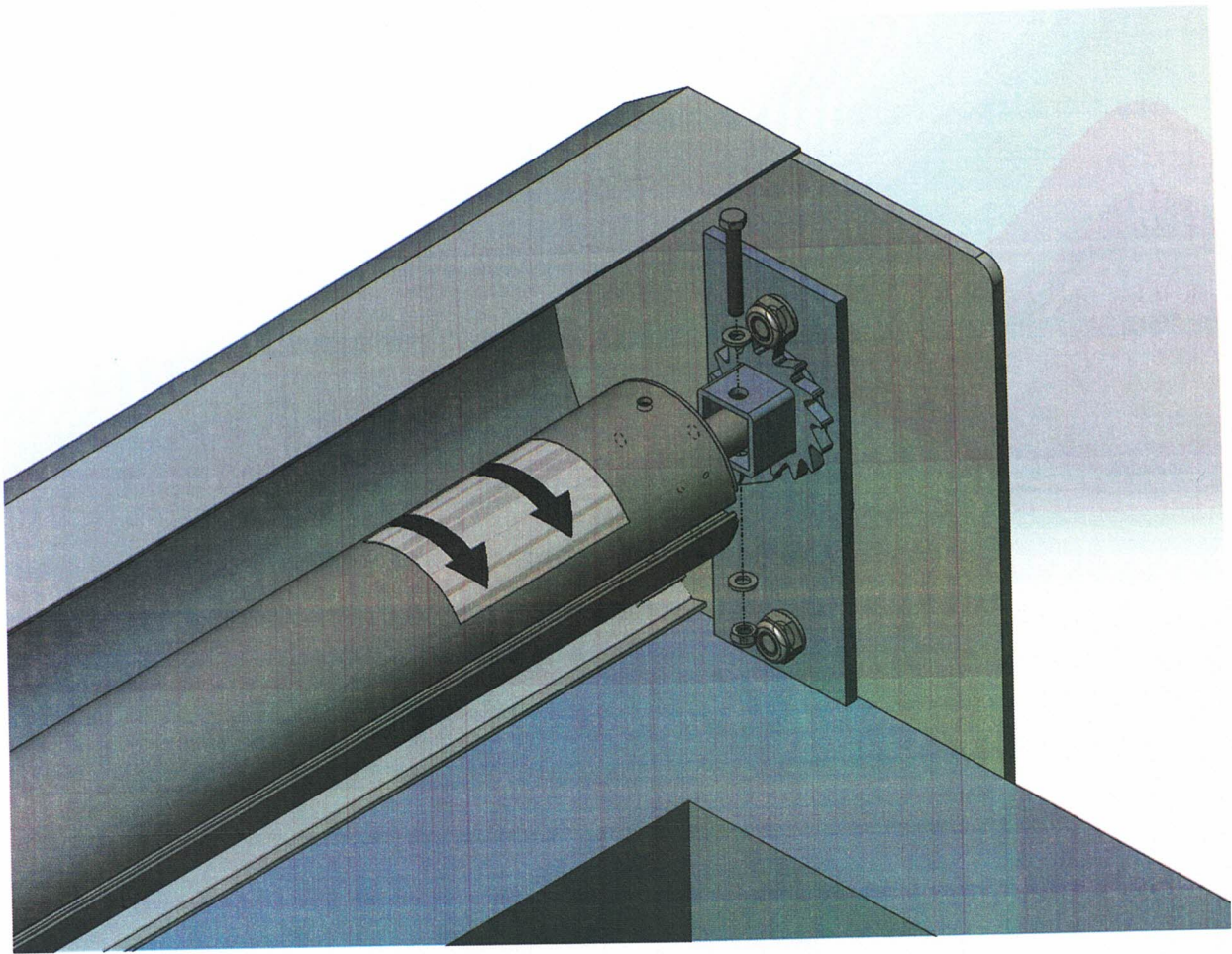


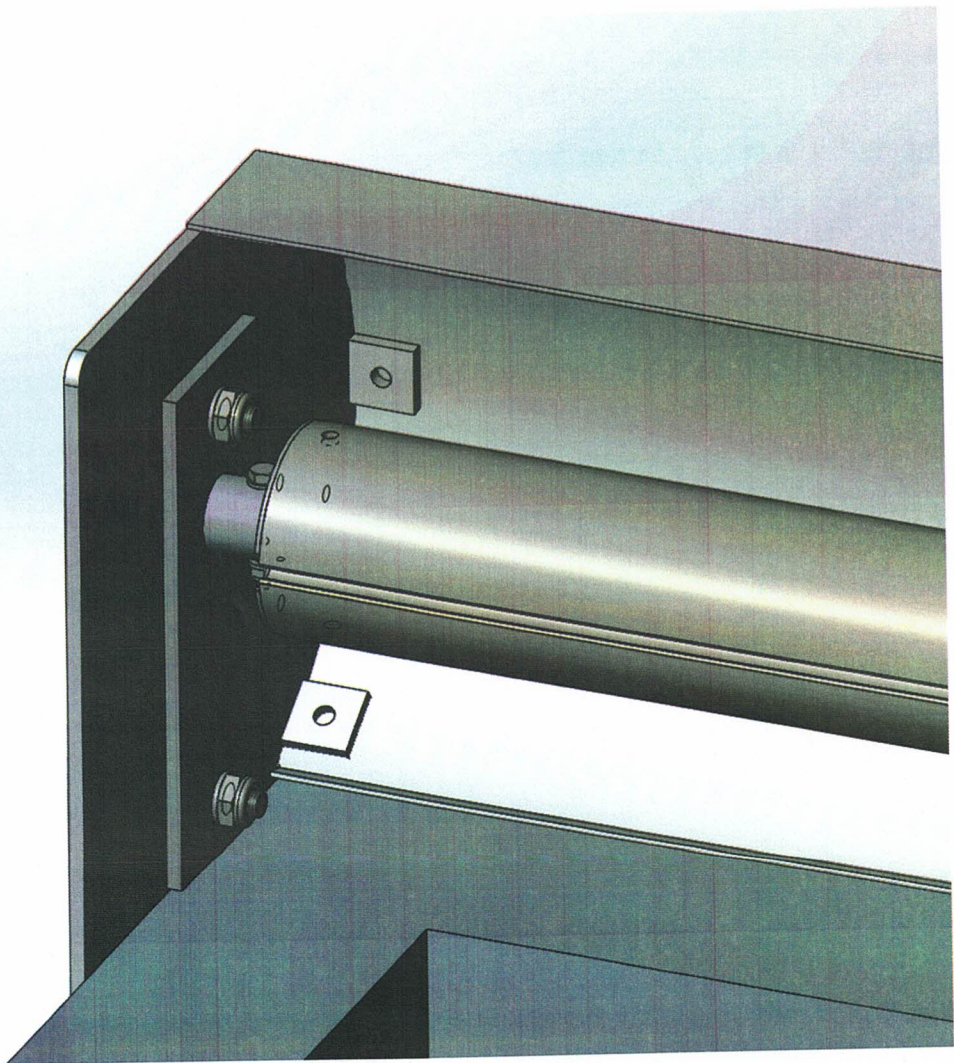
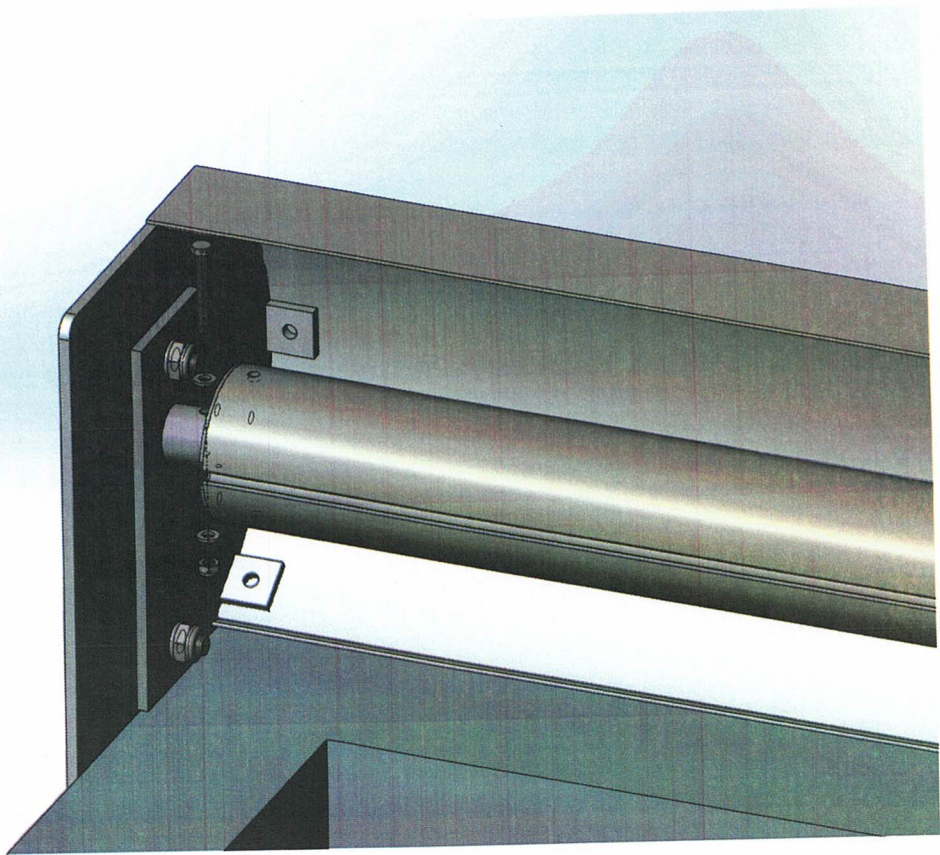
5. Insert the roller bar into the housing. The roller bar side with serial number sticker needs to be mounted into the ratchet mechanism.

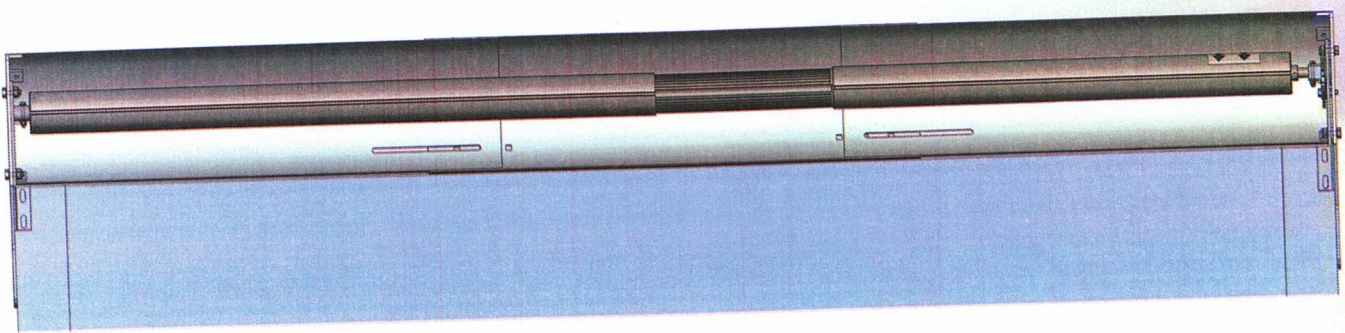




6. Secure the roller bar on ratchet and nipple plate site with M6 bolt.







7. Clamp the roller bar in place, when clamping roller bar in place, place the clamp within the first 2" of the driver's side of the roller bar. This will help prevent having to remove the clamp while installing the tarp. Optionally you can insert a Philips head screwdriver in to the tarp slot on the roller bar so that it locks against the housing, preventing the roller bar from rotating and losing the pre-load. Ensure the lock pawl is engaged in ratchet mechanism. Number of turns is approximate and listed on the roller bar housing. Add 3-5 turns at a time until the tarp retracts completely. For tarps with flaps use the next increment of turns for the given length of tarp being used. **WARNING:** Pre-loading the roller bar opposite the direction of the arrows will damage the spring. Do not exceed fifty turns of pre-load. To start the pre-loading use 1" wrench on square flats of ratchet mechanism and rotate in the way that the ratchet is allowing to counting each full rotation. Lock pawl must be fully engaged before wrench is removed to prevent injury.
8. Installing the tarp - Lay the tarp out flat insuring the top of the tarp is facing up and the 4" pocket is to the rear. To help identify the top side of the tarp, insure the side hems fold underneath and the 4" pocket is sewn with hem facing up. Install the tarp into the roller bar by inserting the tarp spline into the tarp slot of the roller bar through the centre void where there is a gap between the left hand roller bar outer and the right hand roller bar outer. If the void is not large enough to allow the tarp to be installed from the center void, clamp the roller bar in place, remove the Philips head screw driver from right hand side of the roller bar. Insert tarp spline into the right hand side of the roller bar.
9. Assembly of the pull-bar :
 1. Slide the 1" shaft collar to the middle of the pull bar and secure in place by tightening the set screw.
 2. Insert the pull bar into the 4" pocket on the rear of the tarp.
 3. Slide a 1" shaft collar onto each end of the pull bar; leave the set screw loose for final adjustment later.
 4. Slide a 3" fender washer onto each end of the pull bar.
 5. Slide a 1" x 6" PVC roller onto each end of the pull bar.
 6. Slide the 5" fender washer onto each end of the pull bar.
 7. Slide a 1" shaft collar onto each end of the pull bar; leave the set screw loose for final adjustment later.
 8. A small slot must be made in the rear pocket of the tarp to attach the center pull rope to the pull bar. Measure the distance across the rear pocket of the tarp and mark the center point at the rear most edge of the pocket. Cut a small slot (approx 1/4") in the tarp at the center point. Align the slot with the center shaft collar on the pull bar. Remove the set screw in the shaft collar. Insert the eye bolt through the slot in the tarp pocket and into the shaft collar. Tighten eye bolt to secure shaft collar to pull bar. Clip the pull rope onto the eye bolt.

10. Adjusting the pull bar width

1. The pull bar may require an adjustment in width due to variations in body width and side wall thickness. PVC Rollers on the pull bar should be centered over top rail of each side. If roller positioning needs adjustment, it is only necessary to adjust one side.
2. Slide the passenger side outer shaft collar to within 1" of the end of the pull bar. Apply included Loc Tite on shaft collar set screw and secure in place. Slide all remaining passenger side hardware against the outer shaft collar (5" fender washer, PVC roller, 3" fender washer, 1" inner shaft collar), and secure the inner shaft collar by applying Loc Tite and tightening the set screw. Ensure the PVC roller is centered on the passenger side top rail.
3. Align the driver's side PVC roller on the center of the rail and secure the shaft collars as in step 2 above. Cut off any excess pull bar ensuring that you leave at least 1" of pull bar extending beyond the outer shaft collar.
4. Loosen the center eye bolt and adjust as necessary to center the tarp on the pull bar.

Assembled Pull Bar

