



## INSTALLATION INSTRUCTIONS

Thank you for purchasing AUTOLOCK® Electric Tarp. Agri-Cover, Inc. proudly manufactured this tarp using superior quality materials and workmanship. With proper care, your tarp system will provide years of service.

**NOTICE TO INSTALLER:** Even if familiar with product, read instructions prior to installation as improvements may be made without notice. Always handle components with care. If you have questions or problems, have serial number ready and call customer service. When done, these instructions must be given to the consumer.

**NOTICE TO CONSUMER:** Before using this product, read operating, maintenance and safety sections. Save these instructions for future reference.

### FOR YOUR RECORDS

DATE PURCHASED: \_\_\_\_\_

WHERE PURCHASED: \_\_\_\_\_

TARP SERIAL NUMBER: \_\_\_\_\_

(Located at rear of tarp on stationary tube side)

MOTOR SERIAL NUMBER: \_\_\_\_\_

(Located on motor and gearbox)



Questions? (800) 233-4655  
agricover.com

# PREPARATION

- Prior to tarp system assembly, park truck or trailer on level ground.
- Box must be square and straight, center must not be pulled together or spread apart.
- Before beginning, measure outer length and width of your box. Also measure length of tarp and width of the end caps to ensure you received the correct size.
- Remove or grind smooth any sharp edges or points contacting tarp and/or cables.
- Remove or reposition any interferences with tarp. If modifications to box are needed, consult box manufacturer.
- It may be necessary to use washers and nuts or other types of fasteners (not furnished) to ensure a solid anchor.
- Ensure box extension is secure by bolting in place on top of your box.

## TOOLS NEEDED

- (2) 1/2" and (2) 9/16" Wrenches
- 7/32" and 3/16" Allen wrenches
- Phillips screwdriver
- Step ladders or scaffolding
- Drill with 1/8", 5/16", 7/32" and 3/8" bits
- Cutting tool(s)
- Tape measure
- Impact wrench with 9/16" socket
- Hammer
- Protective eyewear
- Marking pencil

## OPTIONAL TOOLS NEEDED

- Locking pliers
- Phillips screwdriver
- C-clamps
- Welder and helmet
- Angle grinder
- Liner tool
- Heat source

**NOTE:** Hardware appearance and components may vary.

**⚠ CAUTION:** Before drilling, ensure there are no hidden wires or gussets in line with holes to be drilled.

### STAINLESS STEEL HARDWARE ONLY

**⚠ CAUTION:** To avoid galling of stainless steel hardware, use anti-galling spray, grease or lubricant on threads and avoid high speed when fastening. Do not use impact tools for stainless steel hardware.

A. Turn 3/8" x 1" non-stainless steel self-threading bolt in 5/16" hole to cut threads, then turn back out.

B. Turn 3/8" x 1" stainless steel bolt in for attachment. When possible, use stainless steel nuts and washers with these bolts.

# SAFETY INFORMATION

**▲ DANGER: Mounting replacement tarp to a structurally weak or damaged roll tube can result in serious injury or death.**

Before installing replacement tarp, inspect mounting surface of roll tube. Be aware several mounting holes in close proximity may compromise roll tube strength and integrity. Ensure mounting location on roll tube provides adequate tarp support.

- Disconnect power before servicing tarp system or electrical components.
- Always use caution when operating tarp system.
- Ensure people and objects are clear of tarp system before and during operation.
- Instruct everyone who will operate tarp system on the proper procedures.
- Never allow children to operate or play with tarp system.
- Do not operate tarp system with box hoisted in elevated position.
- Ensure tarp system is fully open or fully closed before operating vehicle at highway speeds.
- Only operate tarp system when tarp is completely visible.
- Always refer to OEM instructions before installing electrical components.
- Do not use arm as a step.
- Remove snow or debris from top of tarp system before operating.
- End caps must be free from commodity. Commodity should not be piled higher than end caps.
- Do not directly spray motor or connections with a pressure washer.
- Ensure tarp system is fully open before unloading or loading.

**NOTE:** Safety and operating procedure decals provided with this kit should be kept clean at all times and replaced if worn, damaged, painted over or unreadable.

# 1: INSTALLING WEATHER SEAL TO END CAPS

**NOTE:** For best adhesion, ensure air and surface temperatures are above 60° F.

A. Test fit end cap, it should measure at least 1/2" or at most 1-1/2" narrower than top of box on both sides.

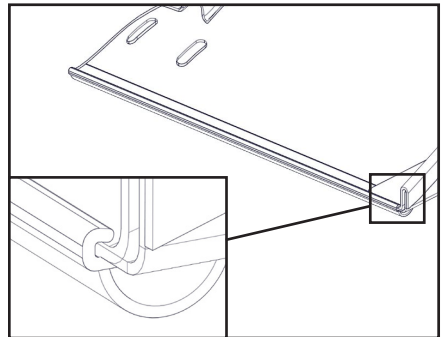
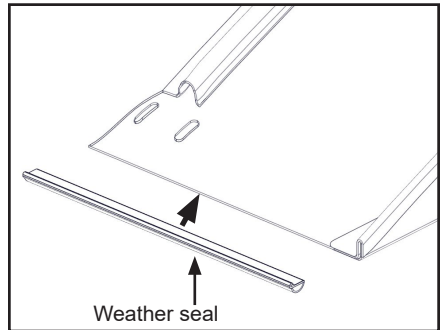
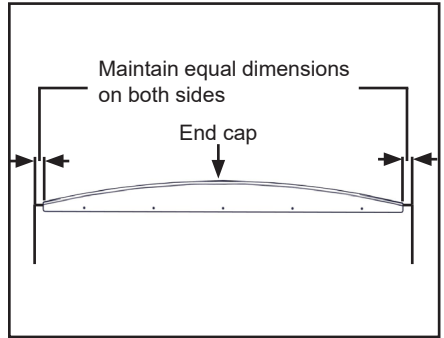
**NOTE:** Modify end cap if needed by notching overhang, removing protruding objects from box or trimming end cap width.

B. At each end, clean underside of end cap.

C. Align weather seal as shown. Test fit on end cap, adjust for optimum seal and trim if needed.

D. Peel protective backing then adhere seals to each side of end cap.

**IMPORTANT: Sharp edges cause tarp damage not covered by warranty. Ensure end cap edges are installed tight to box. Always inspect areas where tarp closes around end caps and top corner of box and make required adjustments.**



## 2: INSTALLING END CAPS

Perform one of the following to install end cap:

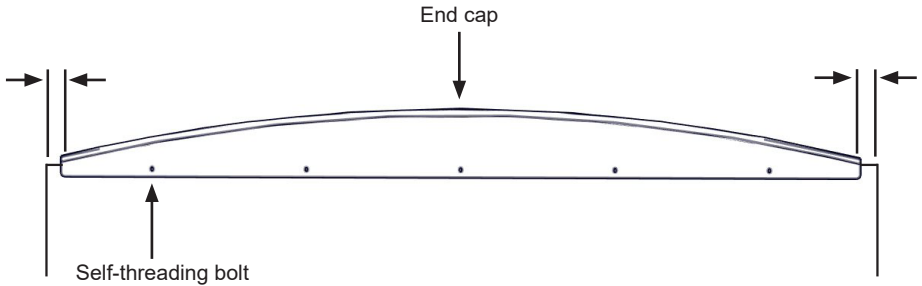
**▲ CAUTION: Do not stand or walk on end cap.**

**NOTE:** For stainless steel hardware, see page 2 for bolting procedures.

### SIDE MOUNT

A. Center end cap on box. Press down and back against box to compress weather seal and drill  $5/16$ " holes in box wall at each factory hole in end cap.

B. Fasten with  $3/8$ " x 1" self-threading bolts.

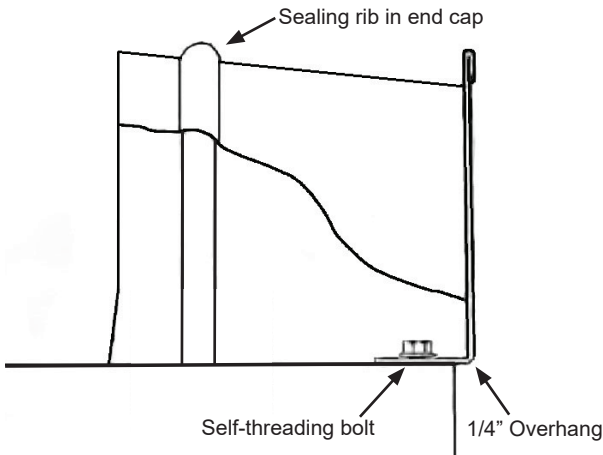


### TOP MOUNT

A. Center and position end cap to overhang end of box by  $1/4$ ". Mark deepest location at each hole on top of box.

B. Remove end cap and drill  $5/16$ " holes at marked locations. Turn  $3/8$ " x 1" self-threading bolts halfway in. Slide end cap slots under bolt heads. Ensure  $1/4$ " overhang, press down to compress weather seal and finish tightening bolts.

**Tip:** If box has uneven layer of metal at top where end cap mounts, apply adhesive seal tape and shim with washers (not included with kit) under end cap at each bolt.



### 3: MOUNTING END CAP BRACKETS

Side mount end cap brackets are standard, refer to included end cap bracket instructions if applicable.

**NOTE:** For stainless steel hardware, see page 2 for bolting procedures.

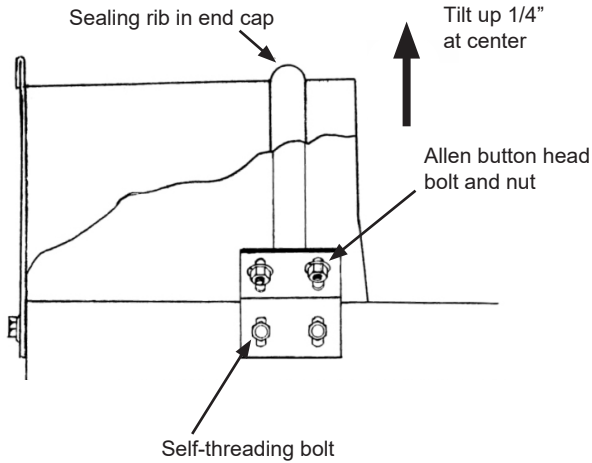
A. Center end cap bracket underneath sealing rib of end cap and butt up against inside of box. Use bracket as template to mark center of (4) hole locations.

B. Drill (2) 5/16" holes through box at marked locations and secure with 3/8" x 1" self-threading bolts.

C. Drill (2) 3/8" holes through end cap at marked locations. Tilt inside edge of end cap up 1/4" and secure with 3/8" x 1" Allen button head bolts and nuts.

D. Repeat Steps 3A-C to install end cap bracket on opposite side.

E. Repeat Steps 1-3 for remaining end cap.



# 4: DETERMINING BOW PLACEMENT

**NOTE:** Supplied bows are not designed to hold box together. Leave all existing bows, braces and chains in place.

A. First and last bow should be placed 30" in from end cap face.

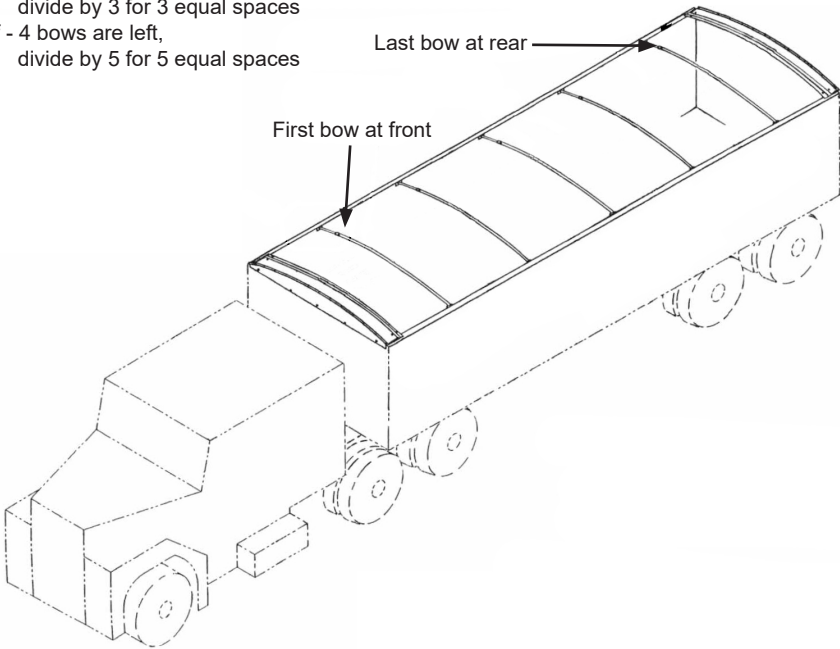
B. Divide space from first to last bow by number of bows left plus one to determine position of remaining bows.

**IMPORTANT: All bows must be used.**

\* Example:

If - 2 bows are left,  
divide by 3 for 3 equal spaces

If - 4 bows are left,  
divide by 5 for 5 equal spaces



## 5: MOUNTING BOWS

Perform one of the following to mount bows:

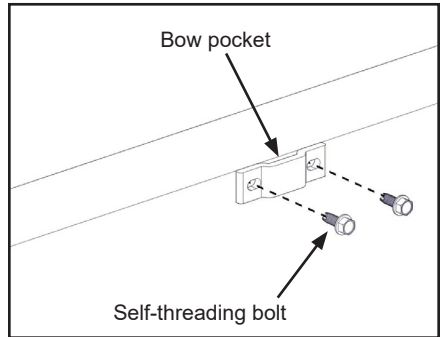
**NOTE:** For stainless steel hardware, see page 2 for bolting procedures.

### SIDE MOUNT

A. Attach bow pocket to inside of box, flush with top. Use pocket as template to drill (2) 5/16" holes and secure with 3/8" x 1" self-threading bolts.

B. Repeat for opposite side.

C. Slide bow extension into end of bow and place bow into bow pockets.



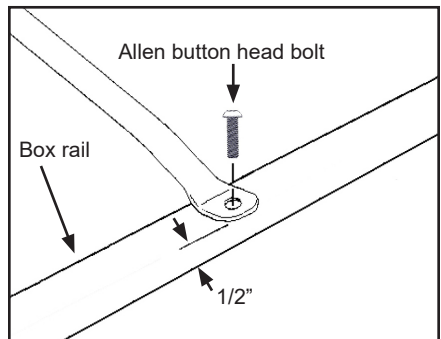
### TOP MOUNT

A. Ensure 1/2" space from outside edge of box rail to bow. Drill 5/16" hole and use 3/8" x 1" self-threading bolt to cut threads. Secure with 3/8" x 1" Allen button head bolt.

B. Slide bow extension into end of bow.

C. Repeat Step 5A for opposite side.

**NOTE:** Deburr any sharp edges at bow ends.



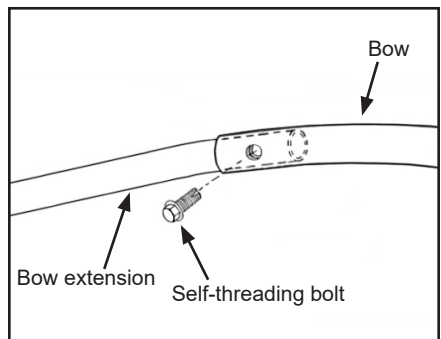
### BOTH SIDE AND TOP MOUNT

D. Center first bow in an upright position and adjust to sit 1" higher than end cap.

**Tip:** Clamp locking pliers to hold in place.

E. Drill 5/16" hole 1" from end of bow through bow and into extension. Secure with 3/8" x 1" self-threading bolt.

**IMPORTANT:** Ensure bolt head does not rub on tarp.



F. Repeat Step 5 for remaining bow locations.

**Tip:** Set front and rear bows to correct height. Install ridge strap and draw tight until no slack. Adjust remaining bows to touch bottom of ridge strap, ensure strap remains level.



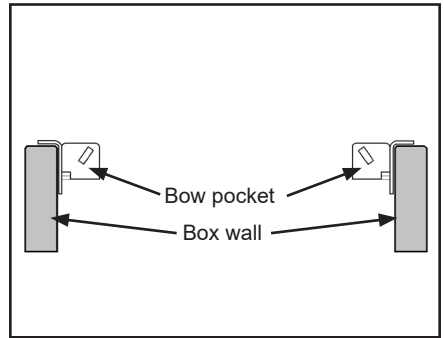
## 5: MOUNTING BOWS (Continued)

### HD ALUMINUM

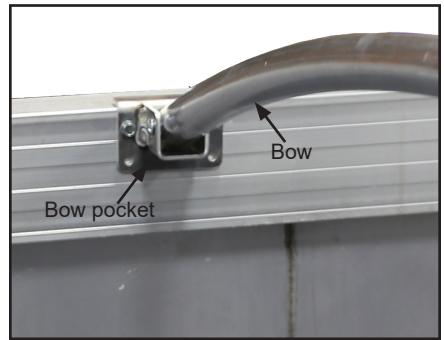
A. Set bow pocket on top of inside edge of box rail. Use pocket as template to drill (4) 5/16" holes and secure with 3/8" x 1" self-threading bolts.

**NOTE:** Shim (not included with kit) behind bow pockets if necessary.

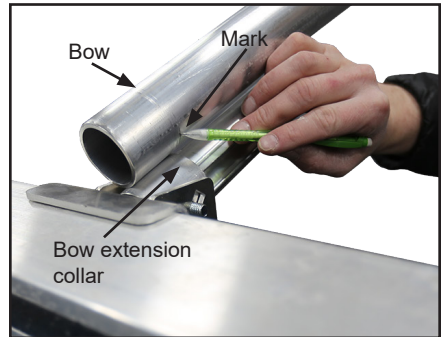
B. Repeat for opposite side.



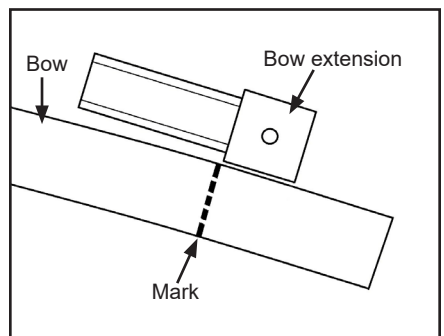
C. Place bow with factory drilled hole into bow pocket. Secure with carriage bolt and nylock flange nut, leaving finger tight.



D. Place bow extension into opposite bow pocket. Secure with carriage bolt and nylock flange nut, leaving finger tight. Hold bow up to bow extension and make mark at bow extension collar on bow. Remove bow from bow pocket, then cut at mark.



**IMPORTANT:** Make cut perpendicular to bow. Do not cut end of bow with factory drilled hole.

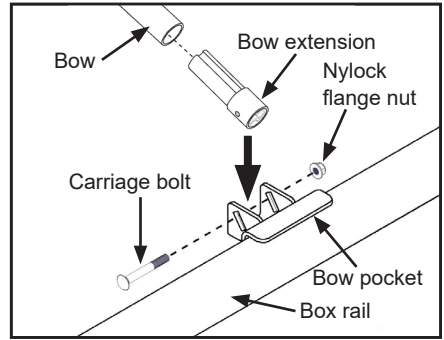


## 5: MOUNTING BOWS (Continued)

E. Slide bow extension into trimmed end of bow. Place bow into bow pockets and secure each end with  $\frac{3}{8}$ " x 3" carriage bolt and nylock flange nut.

**NOTE:** Extension will sit loose within the bow.

F. Repeat Step 5 for remaining bow locations.



### FLEXIBLE

A. Measure inside trailer box width and perform one of the following:

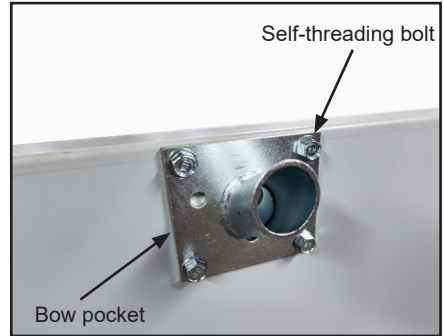
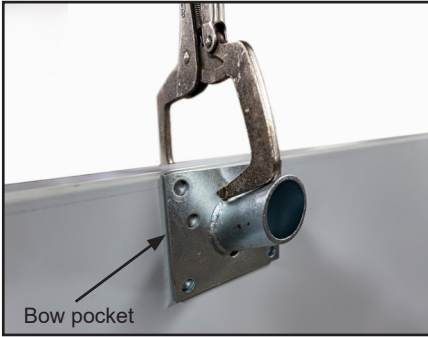
**7" Rise** - Cut bow 1-1/2" longer than inside measurement.

**12" Rise** - Cut bow 4" longer than inside measurement.

**NOTE:** Adjust bows as needed for desired height.

B. Clamp bow pocket flush with top of box, use pocket as a template to drill (4)  $\frac{5}{16}$ " holes. Secure with  $\frac{3}{8}$ " x 1" self-threading bolts.

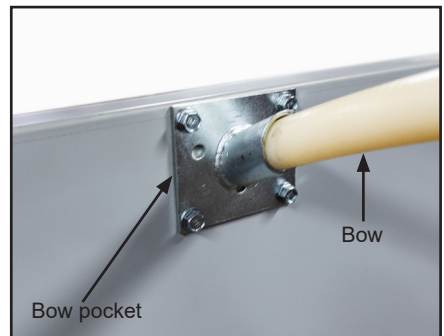
C. Repeat for opposite side.



D. Insert flexible bow into bow pockets.

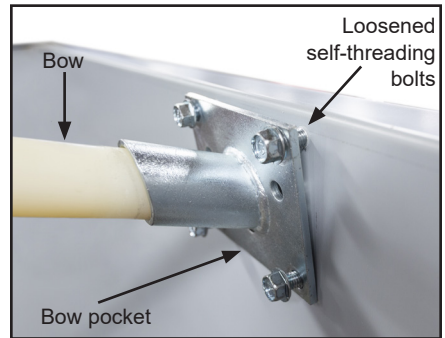
E. Repeat Step 5 for remaining bow locations.

**IMPORTANT:** Ensure bow is fully seated before continuing.



## 5: MOUNTING BOWS (Continued)

**TIP:** Loosening bow pocket hardware may ease bow insertion, then fully tighten hardware.



## 6: MOUNTING RIDGE SUPPORT

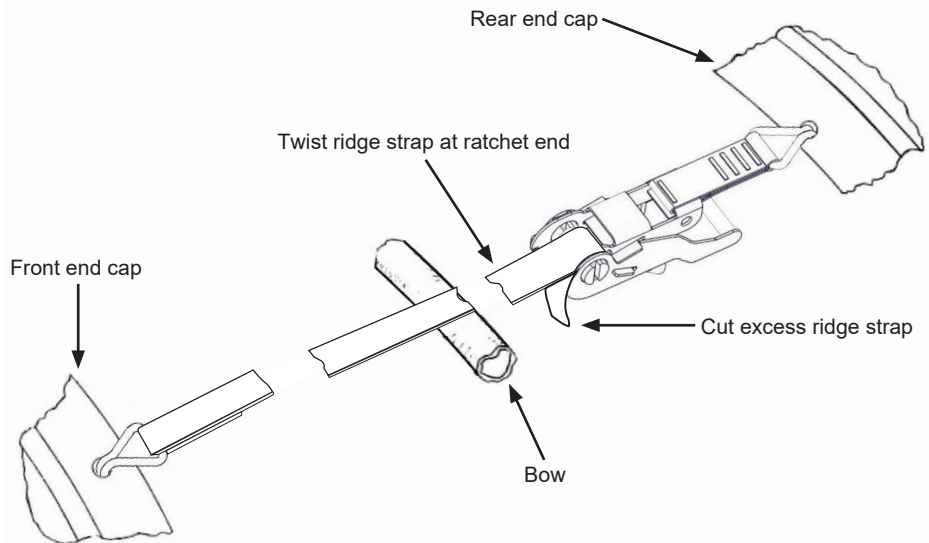
Perform one of the following to mount ridge support:

### RIDGE STRAP

A. Attach hook end of strap to hole in center of front end cap. If installing (2) ridge straps, attach hooks to off centered holes.

B. Run strap over bows and attach ratchet end of strap to rear end cap. Thread strap through ratchet, then draw strap tight. **DO NOT OVER TIGHTEN.** Cut excess strap to 8" and fuse end with heat source.

**Tip:** Twisting ridge strap prior to attaching ratchet helps decrease commodity spatter. Number of twists depends on length of trailer, adjust accordingly. Ensure not to wind any twists in ratchet.

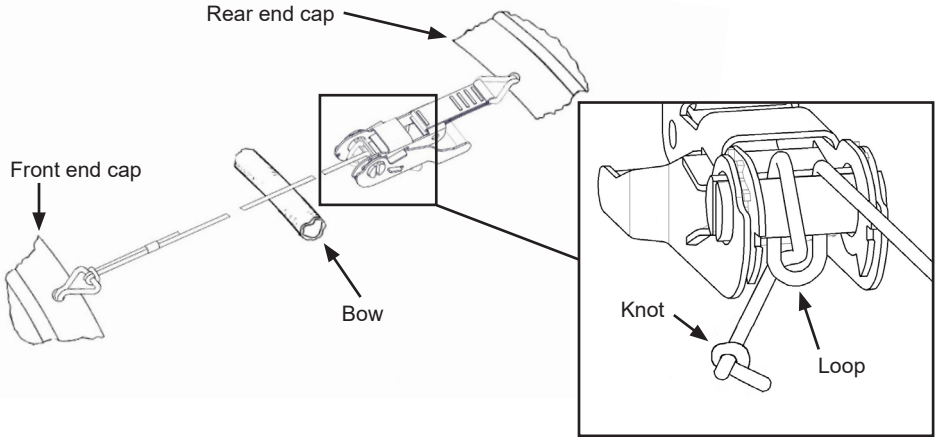


## 6: MOUNTING RIDGE SUPPORT (Continued)

### RIDGE ROPE

A. Attach hook end of rope to hole in center of front end cap. If installing (2) ridge ropes, attach hooks to off centered holes.

B. Run rope over bows and attach ratchet end of rope to rear end cap. Thread rope through ratchet as shown, pull on loose end of rope to remove slack. Ratchet rope tight, at least 4 wraps. **DO NOT OVER TIGHTEN**. Cut excess rope to 8" and knot end.



# 7: DETERMINING TARP STOP PLACEMENT

**NOTE:** Tarp stops secure stationary side of tarp to box.

- For normal roll applications, mount tarp stops on passenger side of box.
- For reverse roll applications, mount tarp stops on driver side of box.

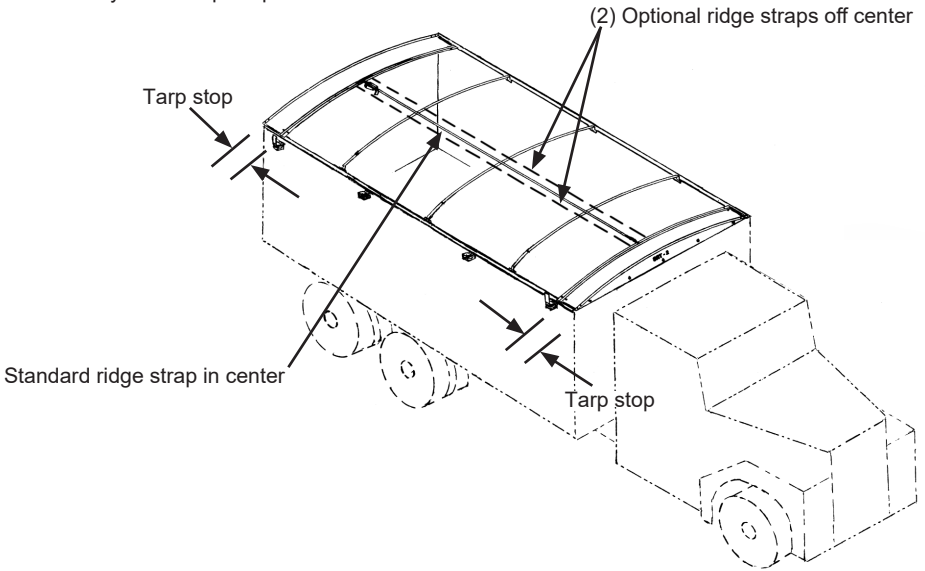
A. Place front and rear tarp stops in line with sealing rib in end cap.

B. Divide space from front to rear tarp stop by number of tarp stops left plus one to determine position of remaining tarp stops.

\*Example:

If - 2 tarp stops are left,  
divide by 3 for 3 equal spaces

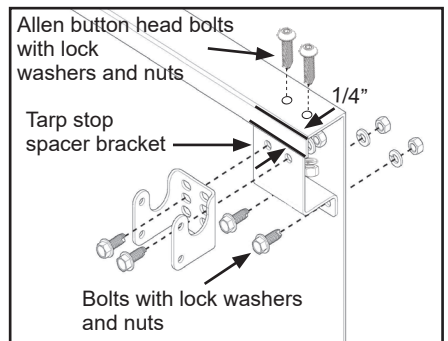
If - 4 tarp stops are left,  
divide by 5 for 5 equal spaces



# 8: MOUNTING TARP STOPS

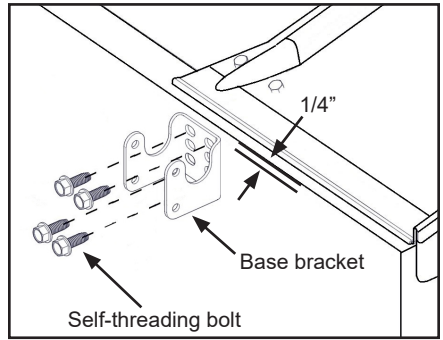
**NOTE:** For stainless steel hardware, see page 2 for bolting procedures.

A. If using optional tarp stop spacer bracket, use bracket as template to drill (4) 5/16" holes and secure with (2) 3/8" x 1" bolts, lock washers and nuts and (2) 3/8" x 1-1/4" Allen button head bolts, lock washers and nuts.

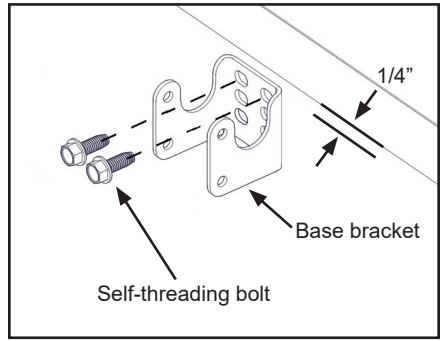


## 8: MOUNTING TARP STOPS (Continued)

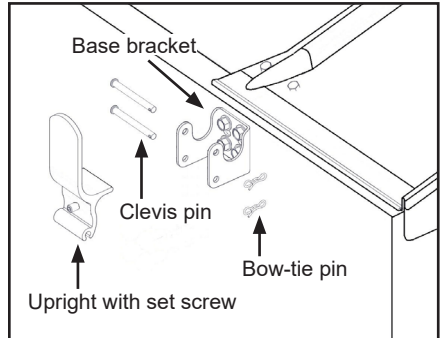
B. Place front and rear base brackets 1/4" down from top of box and drill (4) 5/16" holes and secure with 3/8" x 1" self-threading bolts.



C. Place remaining base brackets 1/4" down from top of box, drill (2) 5/16" holes and secure with 3/8" x 1" self-threading bolts.



D. Align lower hole in upright with lower hole in base bracket. Assemble with clevis and bow-tie pins. Leave tarp stop in open position for now.



E. Repeat Step 8D for remaining tarp stops.

**NOTE:** Install uprights with set screw at front and rear.

**NOTE:** If installing rubber uprights, drill 5/16" hole through rubber in line with stationary tube at front and rear. Secure with 3/8" x 1-1/4" self-threading bolt.



# 9: MOUNTING LATCH PLATE

**NOTE:** Ensure latch plate is longer than tarp, then cut as needed to conform to box.

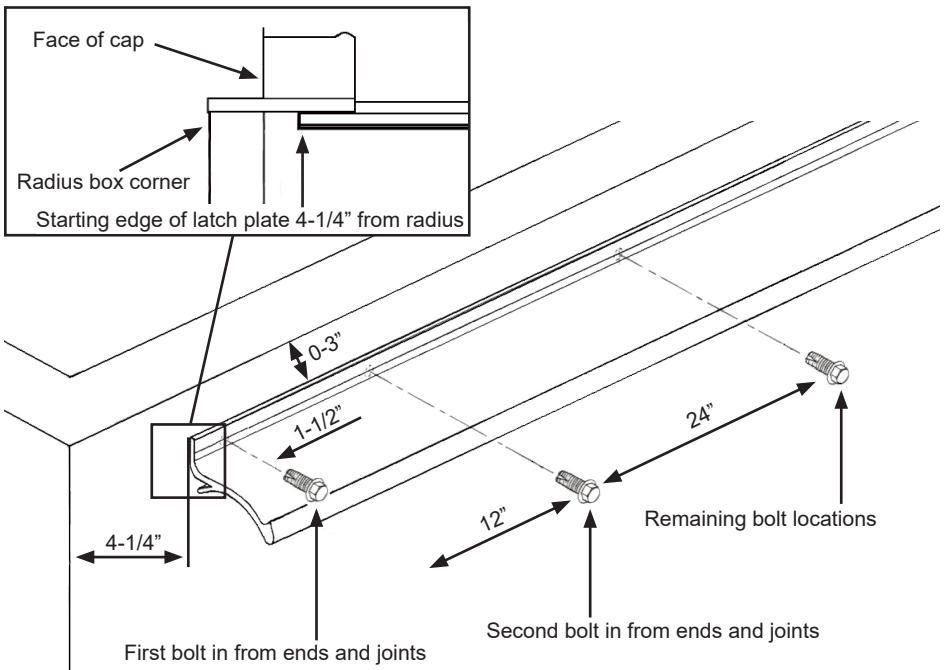
**NOTE:** For stainless steel hardware, see page 2 for bolting procedures.

A. Mount latch plate on side of box opposite from tarp stops 0 to 3" down from top of box rail. Ensure each end of latch plate is 4-1/4" in from each end of box.

**NOTE:** For radius corners mount latch plate 4-1/4" in from where radius begins.

**Tip:** Use C-clamps to hold latch plate in place.

B. Using groove line on latch plate as center point, drill 5/16" holes in following locations: first bolt 1-1/2" in from ends and joints, second bolt 12" in from ends and joints and remaining bolts spaced 24" apart. Secure with 3/8" x 1" self-threading bolts as you go.

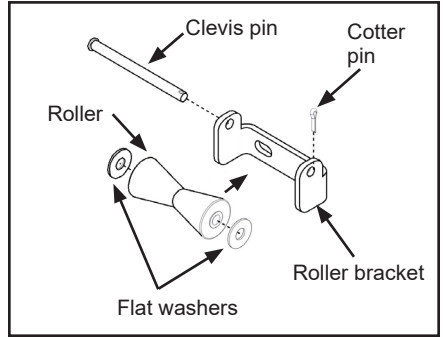


# 10: INSTALLING ROLLER GUIDE

**NOTE:** For stainless steel hardware, see page 2 for bolting procedures.

A. Place roller with a flat washer on each side into roller bracket. Align holes and insert clevis pin through bracket, washers and roller. Secure with cotter pin.

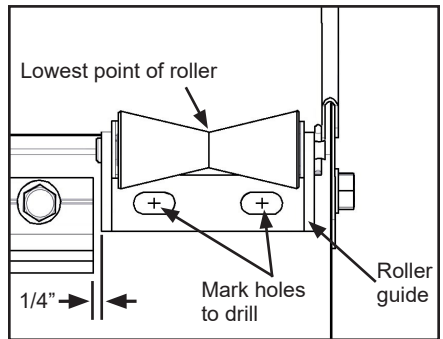
**NOTE:** Cotter pin should always be away from tarp.



B. Position roller guide 1/4" from latch plate. Lowest point of roller should be flush with or slightly above top surface of box.

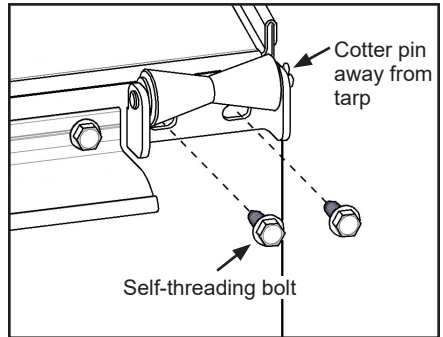
**NOTE:** Roller bracket should not interfere with end cap.

C. Mark best bracket hole locations.



D. Drill (2) 5/16" holes at marks. Secure bracket to box with 3/8" x 1" self-threading bolts.

E. Repeat Step 10 to install roller guide at opposite end of box.





# 11: INSTALLING ROLL TUBE SPLICE

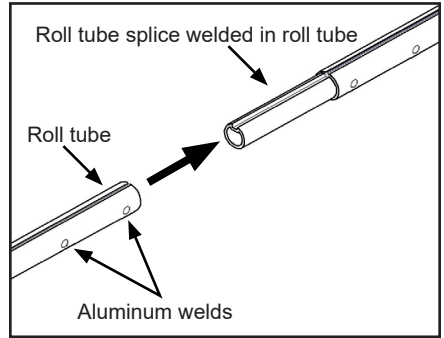
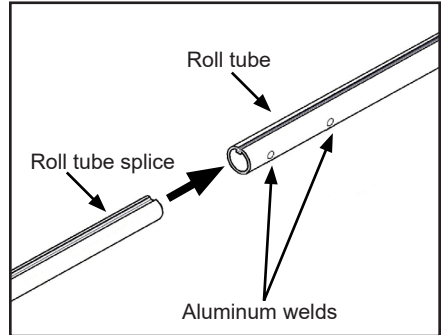
**NOTE:** This step is for kits with multiple roll tube sections.

Perform one of the following to install roll tube splice:

## WELDING ROLL TUBE

**NOTE:** Ensure rope channels are aligned.

- A. Insert half of roll tube splice into end of first roll tube.
- B. Secure roll tube splice by plugging each of the (4) roll tube holes with aluminum welds.
- C. Insert second roll tube onto opposite end of roll tube splice until tubes are tight against each other.
- D. Secure second roll tube by plugging each of the (4) roll tube holes with aluminum welds.
- E. Let all welds cool and grind flush to prevent tarp wear.



# 11: INSTALLING ROLL TUBE SPLICE (Continued)

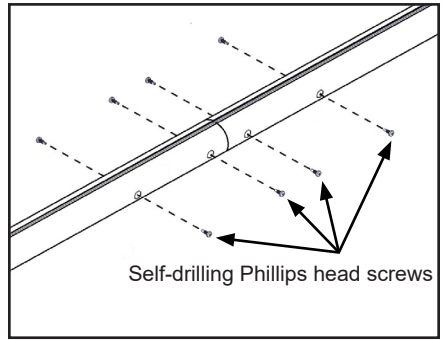
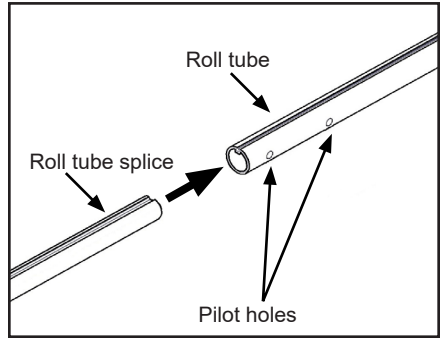
## ALTERNATIVE TO WELDING

**NOTE:** Ensure rope channels are aligned.

- A. Insert half of roll tube splice into end of first roll tube.
- B. Drill (4) pilot holes into roll tube splice through center of roll tube holes using 1/8" bit.

**IMPORTANT: Pilot holes must be centered in holes on roll tube.**

- C. Secure roll tube splice by turning 1/4" x 3/4" self-drilling Phillips screws into pilot holes.
- D. Insert second roll tube onto opposite end of roll tube splice until tubes are tight against each other.
- E. Drill (4) pilot holes into roll tube splice through center of roll tube holes using 1/8" bit.
- F. Secure roll tube splice by turning 1/4" x 3/4" self-drilling Phillips screws into pilot holes.



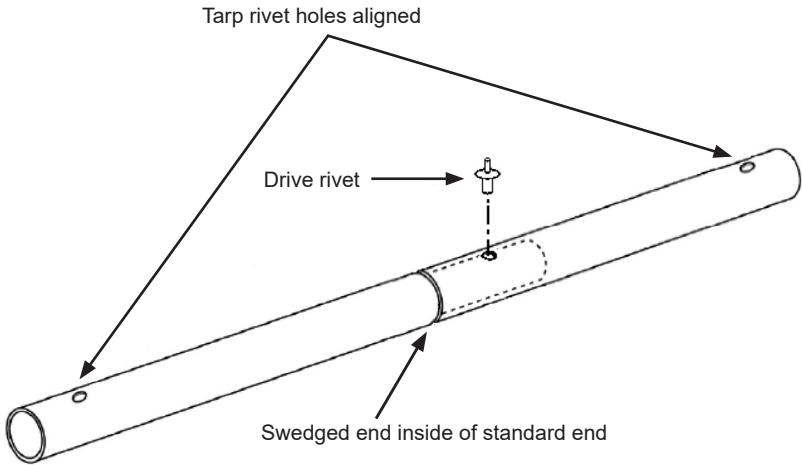
## 12: PREPARING STATIONARY TUBE

**NOTE:** This step is for kits with multiple stationary tube sections.

A. Insert swedged end of stationary tube into standard end.

**IMPORTANT:** Before drilling, align tarp rivet holes with each other.

B. Drill  $7/32$ " hole through two layers of tube wall. Insert drive rivet into hole. Ensure rivet is fully seated and set with hammer.



# 13: DRILLING RIVET HOLES

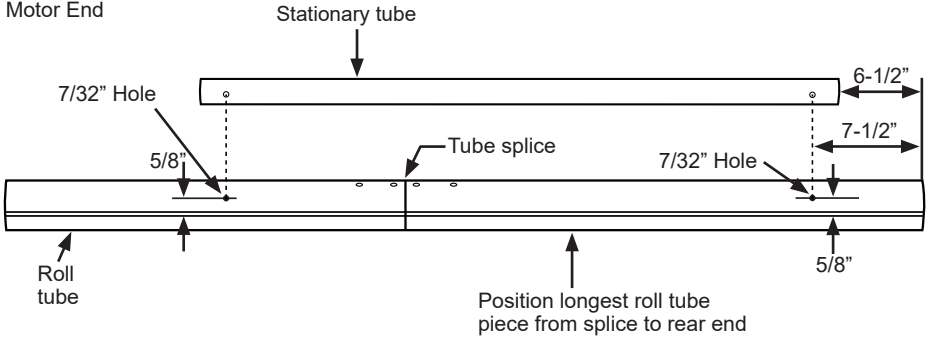
A. Align stationary tube, next to large roll tube as shown for standard or reverse roll. Use hole locations in stationary tube as guide and mark hole locations in large roll tube as shown. If roll tubes were spliced, make sure longest section of tube is oriented to end opposite of motor. Drill  $7/32$ " holes at each marked locations.

## STANDARD

**Drive side**

Motor End

**Non-drive side**



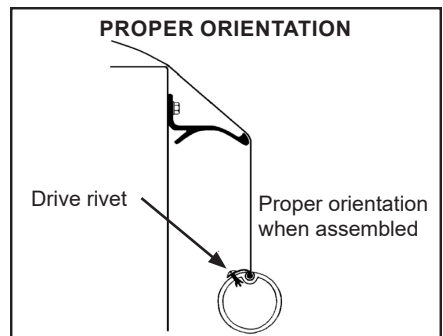
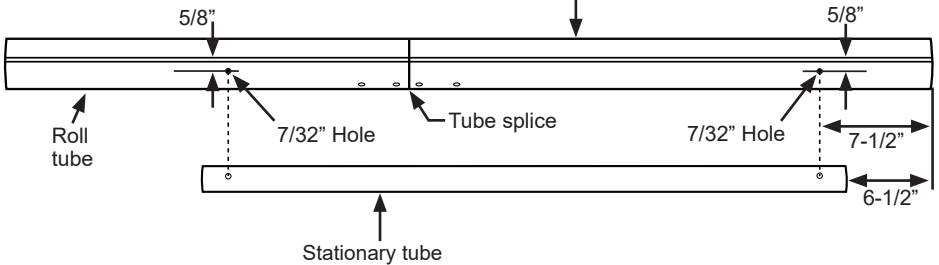
## REVERSE

**Drive side**

Motor End

Position longest roll tube  
piece from splice to rear end

**Non-drive side**



## 14: ATTACHING ROLL TUBE TO TARP

A. On a clean floor, lay tarp out flat with rope and exterior side facing up (raw edge of hems and pockets are down).

**NOTE:** Ensure holes in tarp and roll tube are on same side of rope.

B. Align channel on roll tube with rope.

C. Slide front end of roll tube with hole (pictured below) onto rope at rear of tarp.

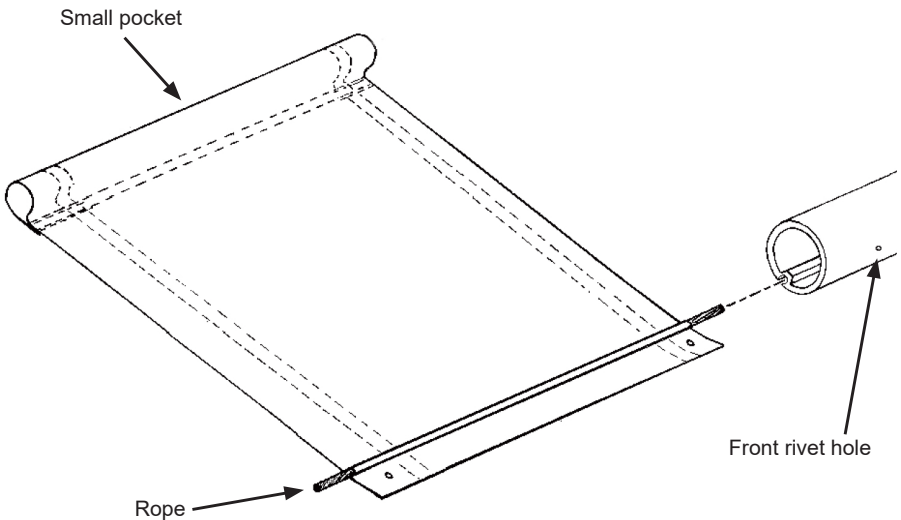
**IMPORTANT:** Ensure rope is fully engaged in rope channel on roll tube.

D. Align holes in tarp and roll tube, then insert drive rivet. Ensure it is fully seated and set with hammer.

**TIP:** Liner tool helps align tarp and roll tube holes to fully seat rivet.

E. On other end, pull tarp by hand to align holes in tarp and roll tube, then insert drive rivet. Ensure it is fully seated and set with hammer.

**NOTE:** Tarp is designed to be stretched to minimize wrinkling.



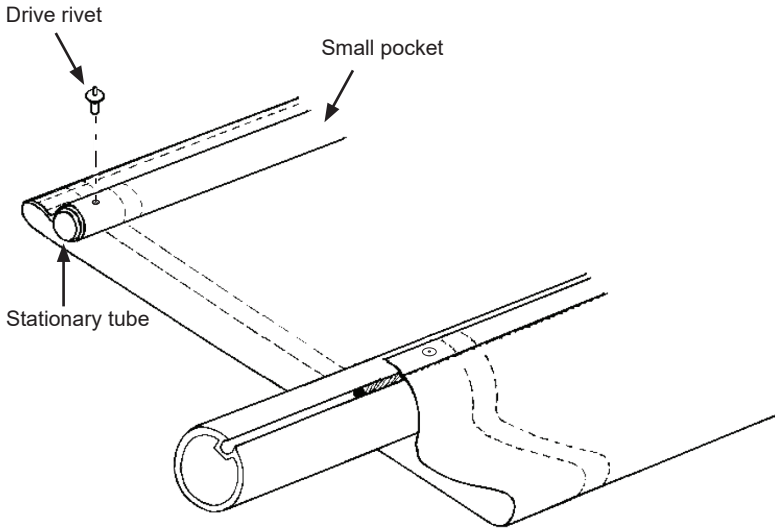
## 15: ATTACHING STATIONARY TUBE TO TARP

A. Tap end plug into each end of stationary tube.

B. Slide stationary tube into small pocket.

C. Align holes in tarp and stationary tube, then insert drive rivet. Ensure it is fully seated and set with hammer.

D. At other end, pull tarp by hand to align holes in tarp and stationary tube, then insert drive rivet. Ensure it is fully seated and set with hammer.



# 16: INSTALLING TARP ASSEMBLY

- A. Roll tarp assembly by hand to open position, roll tube to stationary tube.
- B. Place stationary tube into base brackets.
- C. Center assembly from front to rear of box. Be careful not to let tarp roll off box.

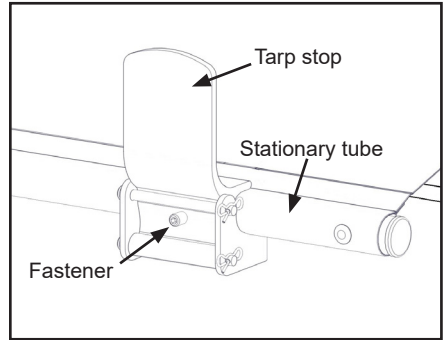
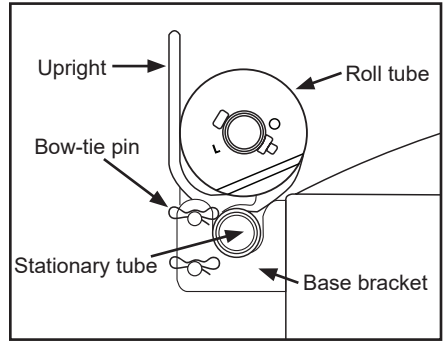
- For normal roll applications, red end goes to the rear, black end to the front.
- For reverse roll applications, black end goes to the rear, red end to the front.

D. Swing upright up and secure with clevis and bow-tie pins.

E. Repeat Step 16D for all tarp stops.

F. Tighten fasteners at front and rear tarp stops.

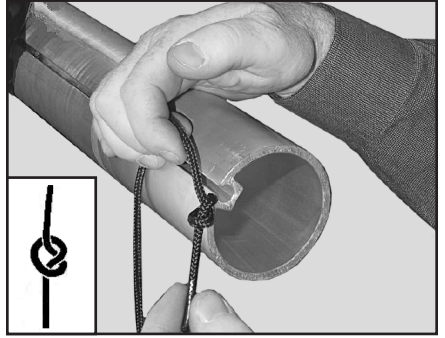
**IMPORTANT: Fasteners prevent tube and tarp from sliding.**



# 17: INSTALLING DRIVE LINE CORD

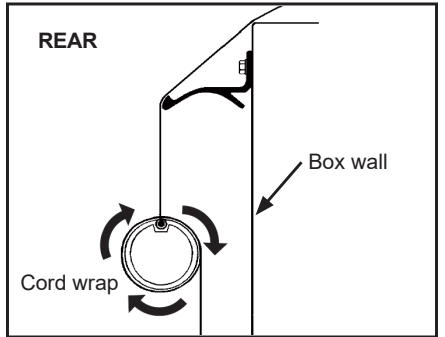
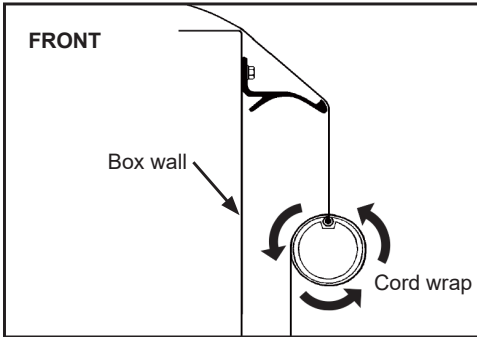
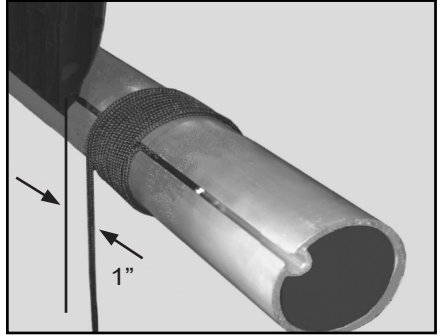
A. Unpack spring box, remove cover and set drive line and all contents aside.

B. Tie loose overhand knot in one end of drive line cord. Insert loose knot into groove on roll tube.



C. Slide knot over and pull tight. Wrap drive line cord around tube from outside going inward toward tarp, always toward box wall.

D. Wrap drive line cord 12 full wraps and let excess hang down. Cord must be at least 1" away from tarp.





# 18: SPRING BOX ORIENTATION

Perform one of the following to mount spring box:

**NOTE:** Mount 51" spring boxes in vertical or horizontal position, only mount 105" spring boxes in horizontal position.

**NOTE:** For stainless steel hardware, see page 2 for bolting procedures.

## VERTICAL

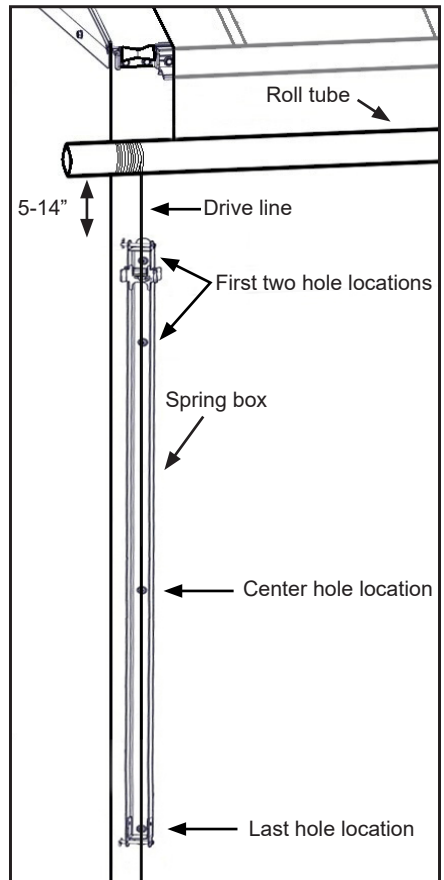
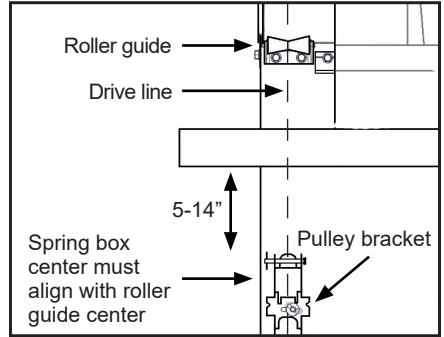
A. With roll tube hanging down, position spring box 5 to 14" down from roll tube, clear of any interference and make mark at end of spring box.

B. With pulley bracket closest to roller guide, align center of spring box with center of roller guide. Drive line cord needs to run near vertical (+/- 1/2"). Adjust drive line cord on roll tube if needed.

C. Select solid bolting locations (such as rivet lines or ribs) for (2) bolts near pulley bracket (4" and 12" from edge of spring box) and last bolt near opposite end of spring box. Remove knockouts and mark locations.

D. For center bolt, select and mark solid location along laser etching of spring box.

**IMPORTANT: Do not bolt to box at this time.**



# 18: SPRING BOX ORIENTATION (Continued)

## HORIZONTAL

**NOTE:** On trailers with ribbed walls, bolt spring box to ribs. Optional mounting brackets available, if needed (see page 41).

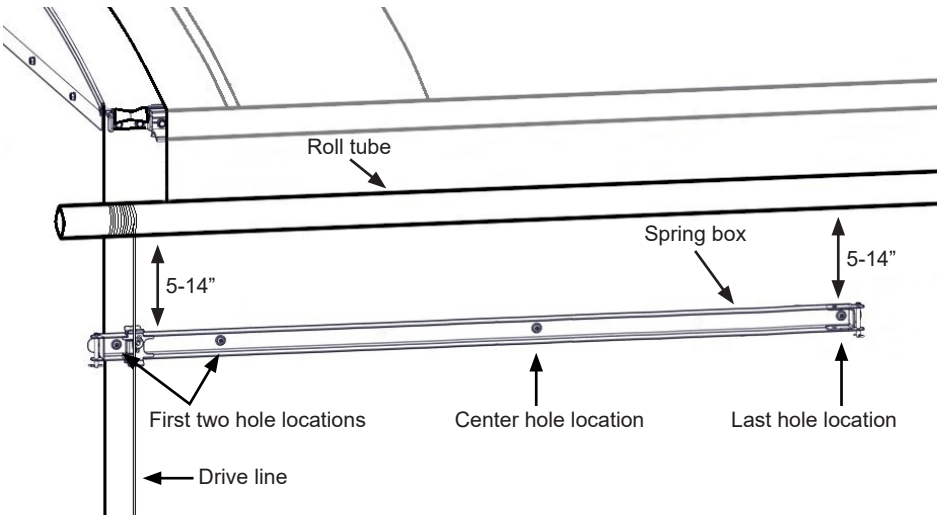
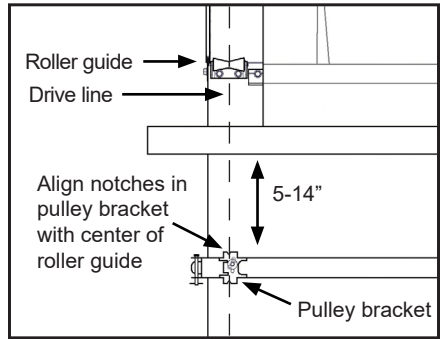
A. With roll tube hanging down, position spring box 5 to 14" down from roll tube, clear of any interference and make mark at each end of spring box.

B. With pulley bracket at same end as drive line cord, align notches in pulley bracket with center of roller guide. Drive line cord needs to run near vertical ( $\pm 1/2^\circ$ ). Adjust drive line cord on roll tube if needed.

C. Select solid bolting locations (such as rivet lines or ribs) for (2) bolts near pulley bracket (4" and 12" from edge of spring box) and last bolt near opposite end of spring box. Remove knockouts and mark locations.

D. Depending on length of spring box, preform one of the following:

- For 51" spring boxes, select and mark solid location for center bolt along laser etching.
- For 105" spring boxes, select and mark solid locations for (3) center bolts along laser etching.



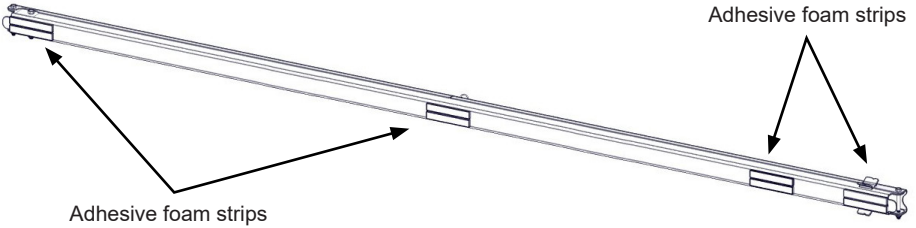
# 19: MOUNTING SPRING BOX

**NOTE:** For stainless steel hardware, see page 2 for bolting procedures.

A. Before drilling, ensure all marks are at solid locations and notches in pulley bracket align with center of roller guide. Drill  $5/16$ " holes at marked locations.

**IMPORTANT: Do not bolt to box at this time.**

B. Apply adhesive foam strips to backside of spring box at top and bottom of each bolting location.

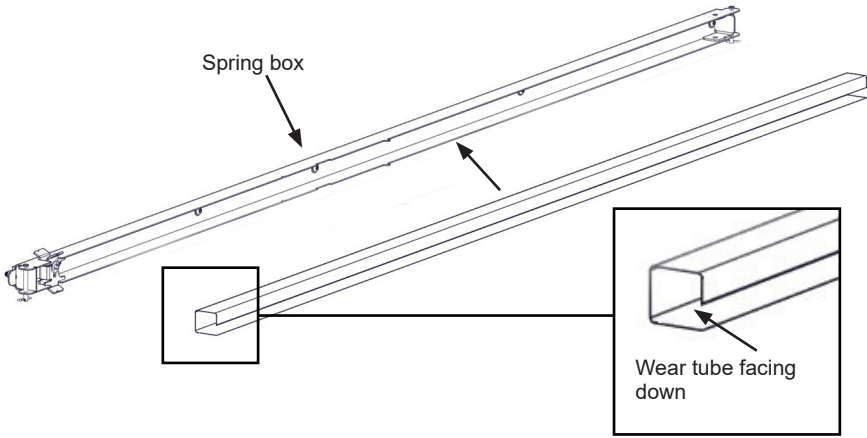


C. Use  $3/8$ " x 1" self-threading bolts to cut threads for Allen button head bolts at each location.

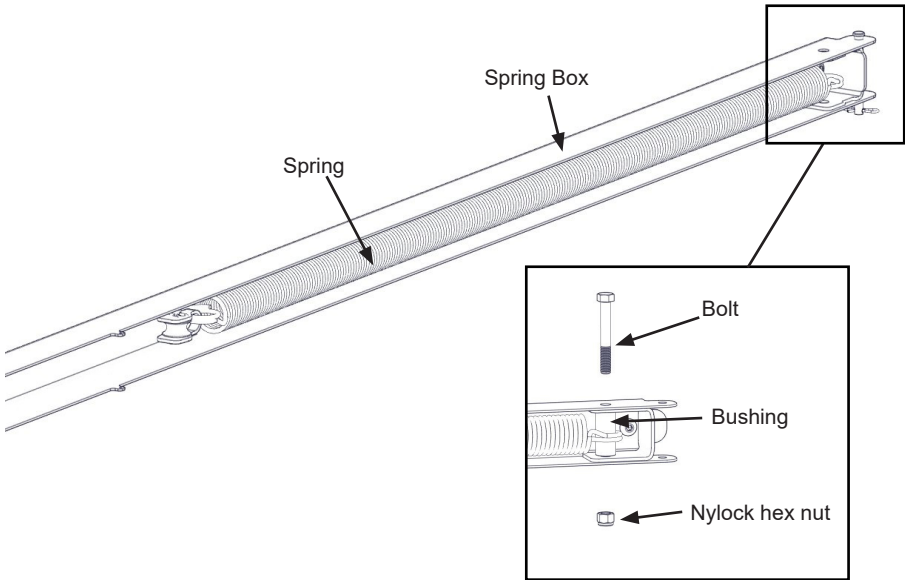
D. Realign spring box with holes and secure with  $3/8$ " x 1- $1/4$ " Allen button head bolts and flat washers. With pulley bracket notches in line with cord, tighten bolts with a  $7/32$ " Allen wrench.

## 20: INSTALL TENSION SPRING

A. Place wear tube in spring box with opening facing down and away from box.



B. Place spring inside of wear tube (not shown below for illustration purposes) on ledge of spring box with spring loop on opposite end of pulley bracket. Push bushing into spring loop and align with holes in spring box. Insert 3/8" x 2-3/4" bolt into bushing, secure with nylock hex nut, then tighten.

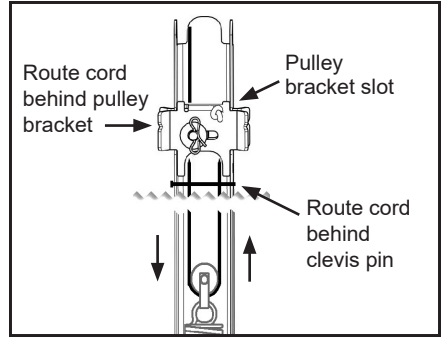


# 21: SETTING TENSION

Perform one of the following to attach drive line cord to spring:

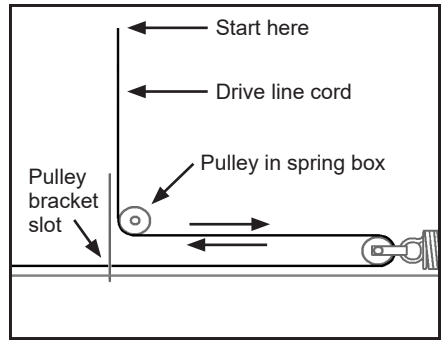
## VERTICAL SPRING BOX

A. Route drive line cord behind pulley bracket and clevis pin at end of spring box, over and around pulley on the end of tension spring and back toward pulley bracket slot at end of spring box.



## HORIZONTAL SPRING BOX

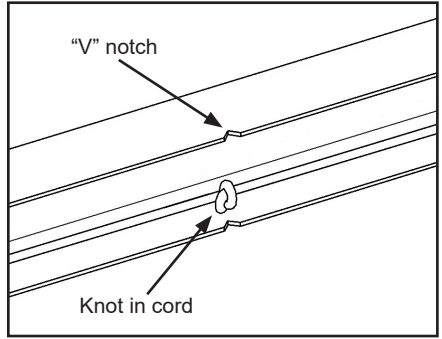
A. Route drive line cord around pulley and in front of clevis pin at end of spring box, over and around pulley on end of tension spring and back toward pulley bracket slot at end of spring box.



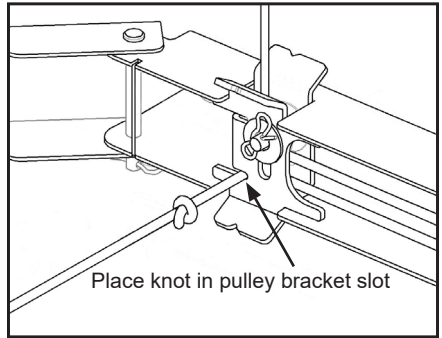
# 21: SETTING TENSION (Continued)

## BOTH VERTICAL AND HORIZONTAL SPRING BOX

B. Pull cord tight and tie a knot in line with “V” notch on spring box.



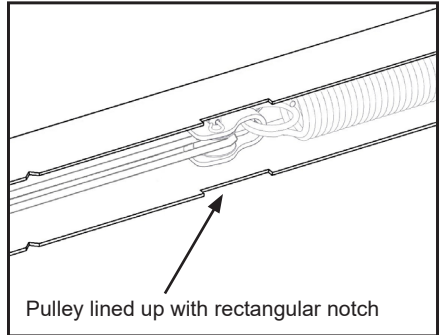
C. Pull cord through pulley bracket, stretching spring and place knot in pulley bracket slot.



D. Check spring tension after the first open and close cycle of the tarp. Spring is properly tensioned when pulley settles back and lines up approximately with rectangular notch on spring box.

E. With spring tensioned, wrap tape around cord 2” from knot and cut excess cord at that location.

**NOTE:** Always ensure drive lines are tensioned equally at front and rear of tarp.



## 22: INSTALLING SPRING BOX DOORS

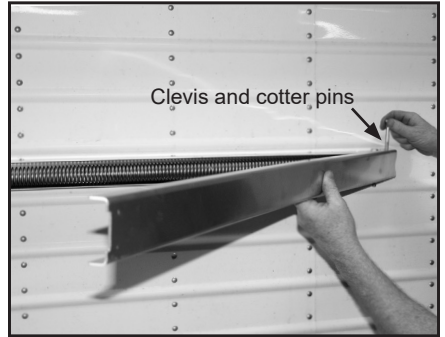
Perform one of the following to install spring box:

### 51" SPRING BOX

A. Align holes in door with holes at one end of spring box and insert 5/16" x 3" clevis and cotter pins. Swing door closed then insert clevis and cotter pins at opposite end.

**▲ CAUTION: Keep door closed with pins in place while operating.**

B. Repeat Steps 17-22 for installing drive line cord and spring box at opposite end of trailer.



### 105" SPRING BOX

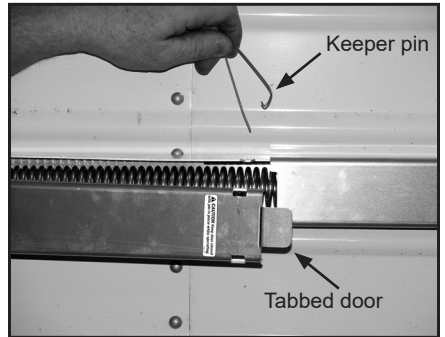
A. Swing doors closed with tabbed door overlapping opposite door.

B. Push firmly until both doors are closed then insert keeper pin through doors and base of box.

**NOTE:** Both doors are designed with chamber to close.

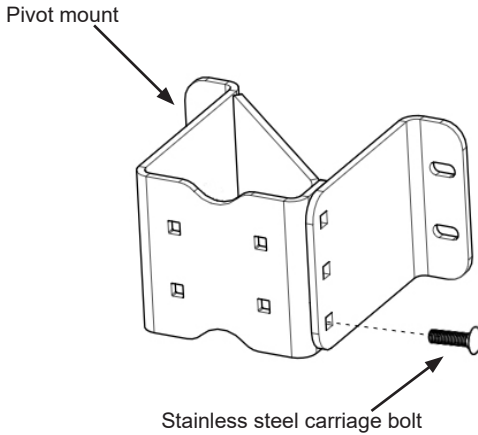
**▲ CAUTION: Keep door closed with pins in place while operating.**

C. Repeat Steps 17-22 for installing drive line cord and spring box at opposite end of trailer.

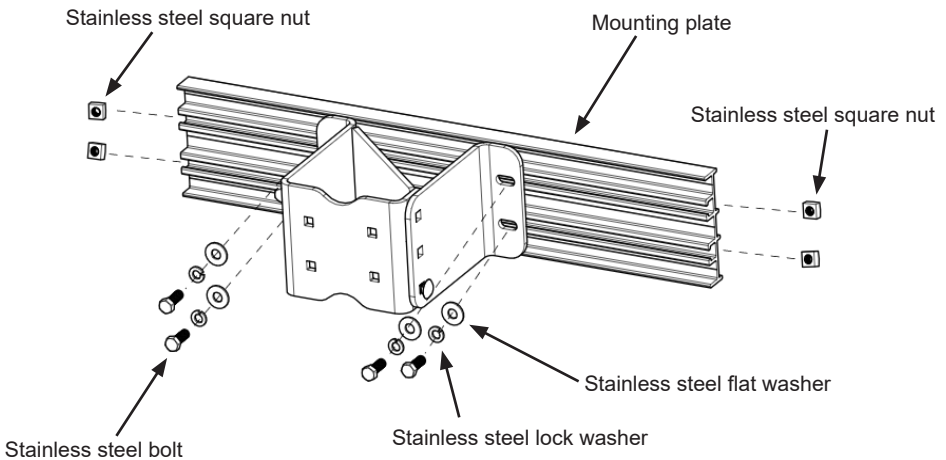


## 23: PREPARING MOUNTING ASSEMBLY

A. Secure both halves of pivot mount through bottom hole with 3/8" x 1-1/2" stainless steel carriage bolt, lock washer and nut.



B. Slide (4) stainless steel square nuts into channels in mounting plate. Secure pivot mount to mounting plate using 3/8" x 1" stainless steel bolts, flat washers and lock washers threaded into square nuts in channel. Center pivot mount on mounting plate and finger tighten all hardware.





# 24: INSTALL MOUNTING ASSEMBLY

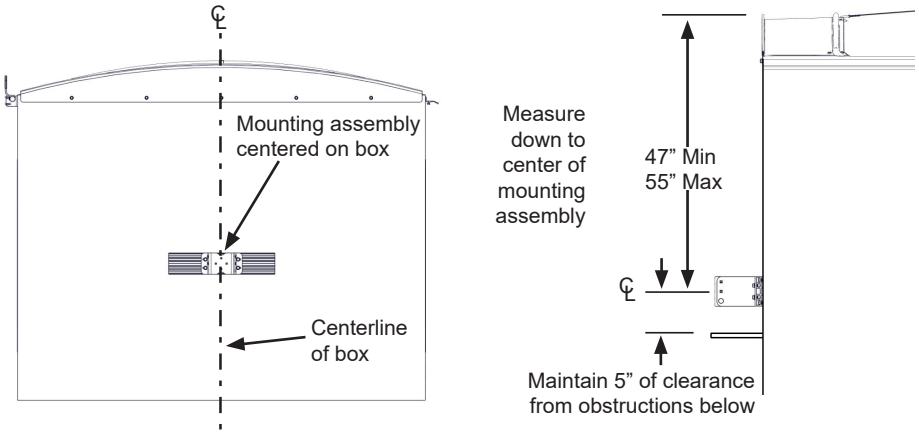
A. At front of trailer, align center point of mounting assembly with centerline of box. Measure down 47 to 55" from top of end cap and mark holes in top and bottom groove.

**NOTE:** Mounting assembly can be located higher, though arm may lift tarp off box during operation.

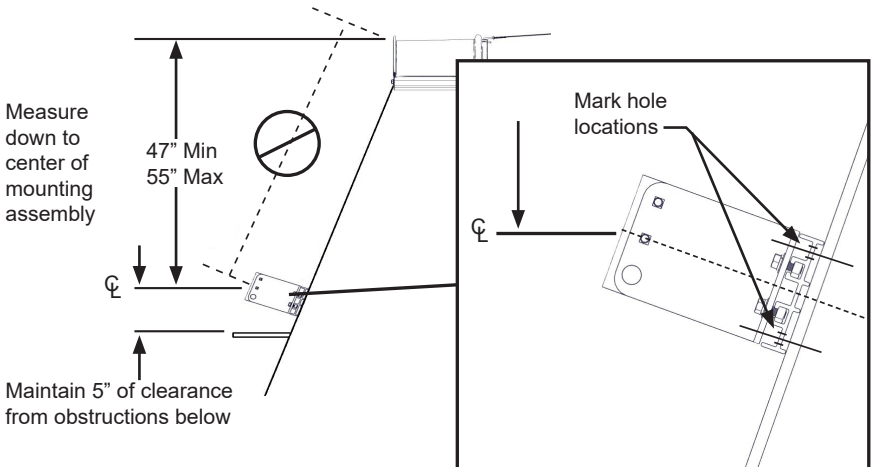
**NOTE:** Attach mounting assembly to support braces whenever possible.

**NOTE:** Maintain 5" of clearance from obstructions below pivot mount.

## VERTICAL WALL BOX



## SLANT WALL BOX



## 24: INSTALL MOUNTING ASSEMBLY (Continued)

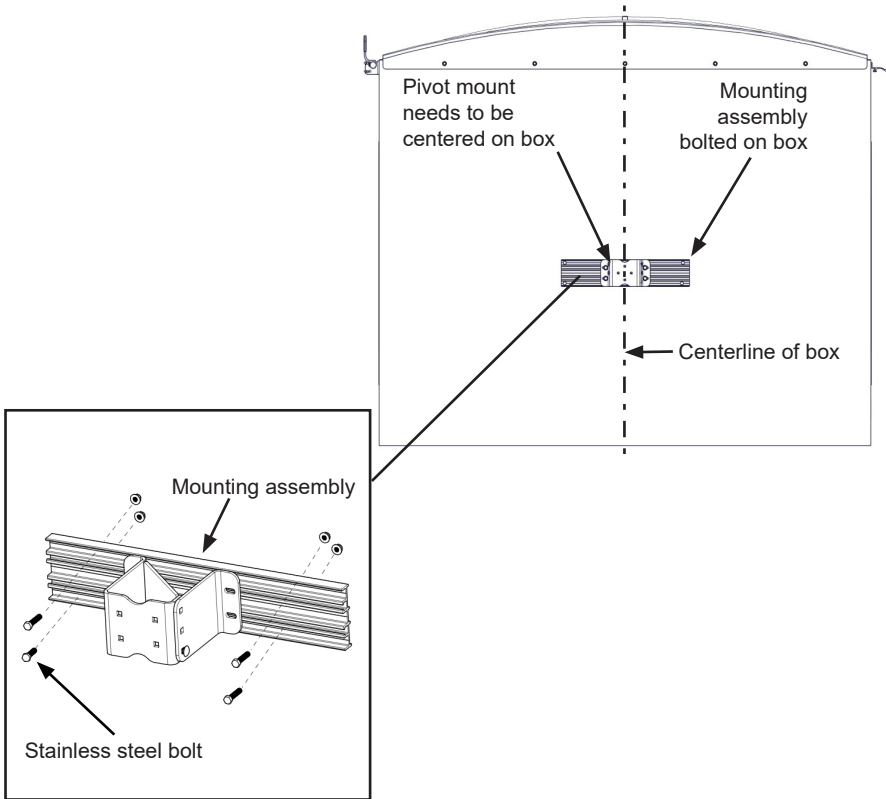
**IMPORTANT:** Before drilling any holes, ensure arm has a clear path to operate.

**NOTE:** For stainless steel hardware, see page 2 for bolting procedures.

B. Drill (4) 5/16" holes at marked locations. Attach mounting assembly to box wall by turning 3/8" x 1" self-threading bolts to cut threads, then turn back out. Secure using 3/8" x 1-3/4" stainless steel bolts, when possible use nuts on back side.

**NOTE:** Bolt locations may vary based on trailer support braces.

C. Ensure pivot mount is centered on box, then tighten all hardware.

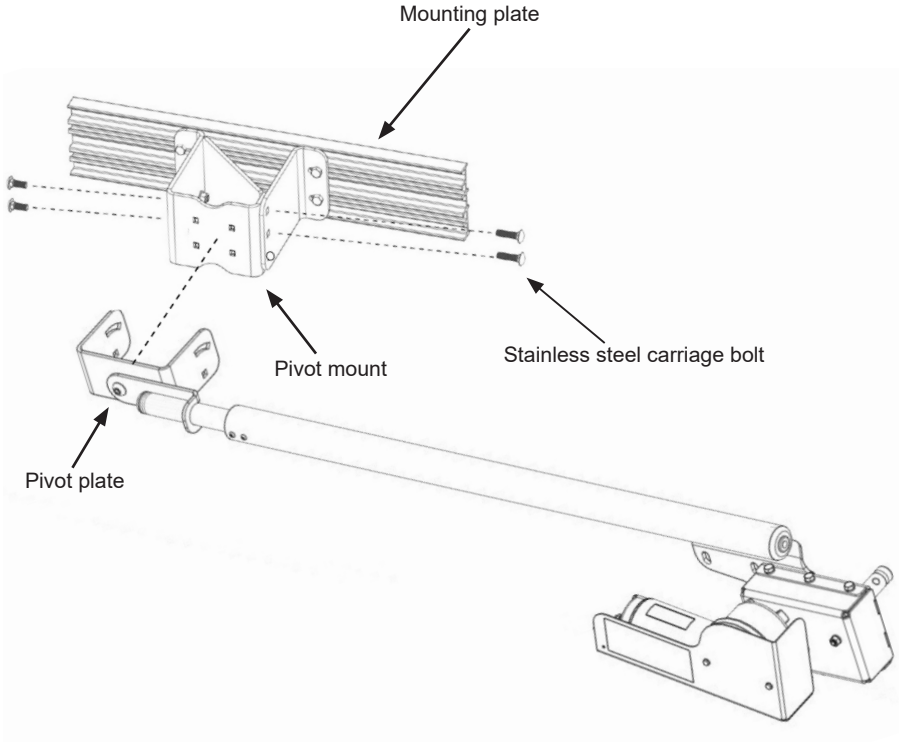


## 25: BOLTING PIVOT ARM TO PIVOT MOUNT

**NOTE:** For stainless steel hardware, see page 2 for bolting procedures.

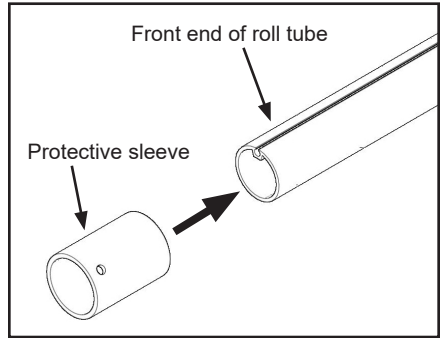
A. Bolt pivot plate with slotted holes up to pivot mount using (4) 3/8" x 1-1/2" stainless steel carriage bolts, lock washers and nuts. Leave bolts loose for now.

**NOTE:** Motor, gear box and arms are pre-assembled. The lower pivot arm slides inside the larger motor arm with wire routed inside both arms.

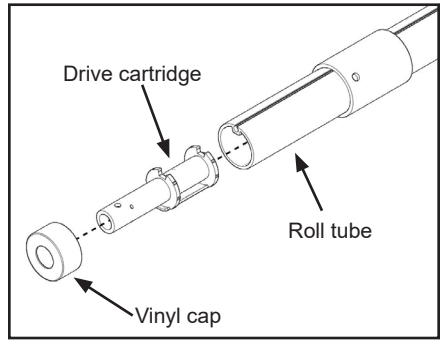


## 26: INSTALLING DRIVE CARTRIDGE

A. Slide protective sleeve over front of roll tube.

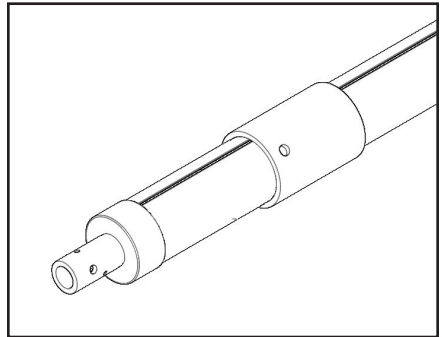


B. Insert drive cartridge into end of roll tube.



C. Slide vinyl cap over drive cartridge shaft and onto roll tube.

**NOTE:** Drive cartridge is left loose to square motor arms.

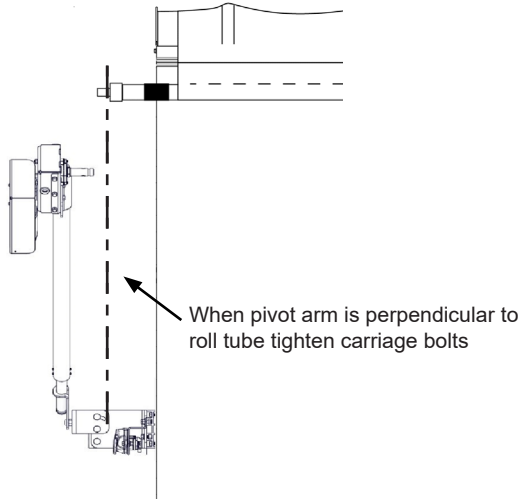


# 27: VERTICAL ALIGNMENT OF PIVOT ARM

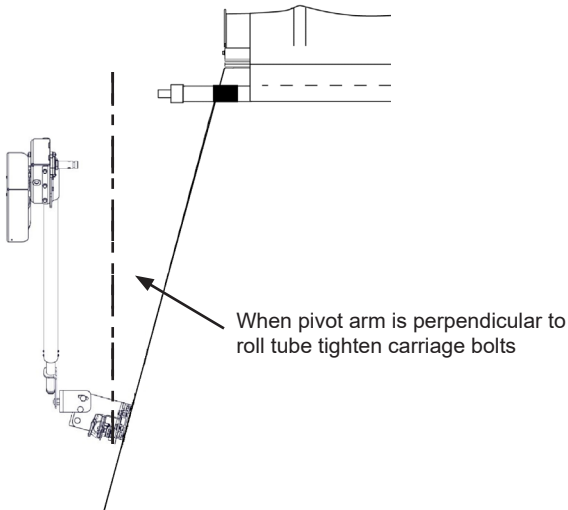
**⚠ WARNING:** Arm is under pressure. Requires two people for safe installation.

A. Lift pivot arm to vertically align motor and arm. Ensure path of motor and pivot arm is free of obstructions then lower and tighten carriage bolts.

## VERTICAL WALL BOX



## SLANT WALL BOX

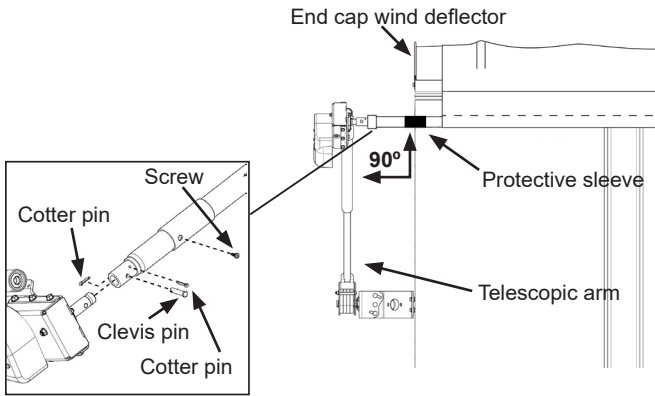


## 28: CONNECTING MOTOR TO ROLL TUBE

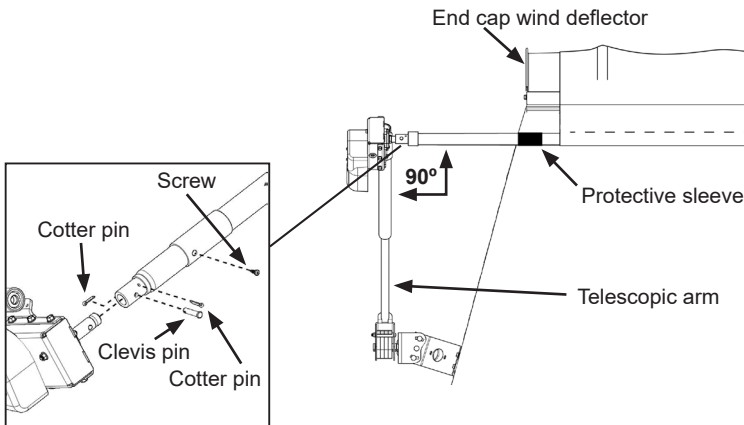
**▲ WARNING: Arm is under pressure. Requires two people for safe installation.**

- A. Apply grease to drive shaft. Raise pivot arm and insert motor shaft into drive cartridge, then secure with cotter pin.
- B. Align holes in drive cartridge and motor shaft then insert clevis and cotter pins, bend tabs to secure. Grease zerk at this location.
- C. Align center of protective sleeve to travel over top of wind deflector. Secure with #12 x 3/4" Phillips head screw.
- D. Square pivot arm with roll tube by adjusting motor and roll tube forward or backward as needed.

### VERTICAL WALL BOX



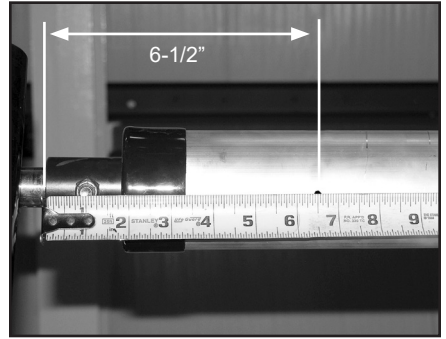
### SLANT WALL BOX



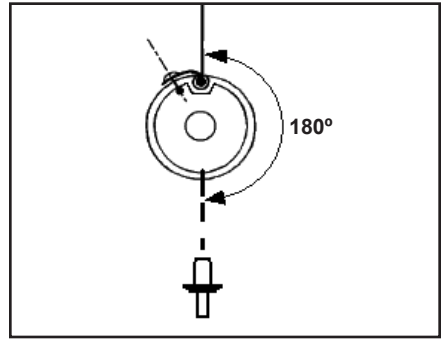
## 28: CONNECTING MOTOR TO ROLL TUBE (Continued)

E. After pivot arm is square with roll tube, measure 6-1/2" in from beginning of drive cartridge and 180° opposite of rope channel and mark.

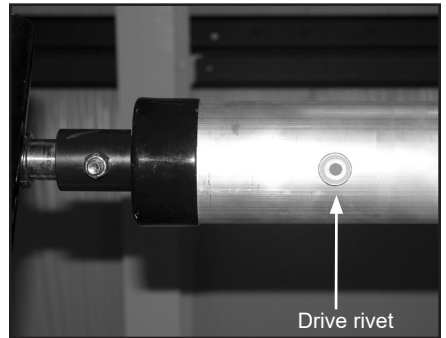
**NOTE:** Cutting the end of the roll tube shorter may be necessary in some cases.



F. Drill 5/16" hole through first wall of roll tube and cartridge.



G. Then insert drive rivet. Ensure drive rivet is fully seated and set with hammer.



## 29: ELECTRICAL

- A. Locate and clean suitable locations to apply caution stickers.
- B. Refer to included instructions to complete wiring.

## 30: INSTALLING TUBE CAP

- A. Install tube cap over rear end of roll tube.





# OPTIONAL MOUNTING BRACKET

Not included with tarp kits. If needed, call 800-233-4655 and order kit #70299 or purchase online from our website.

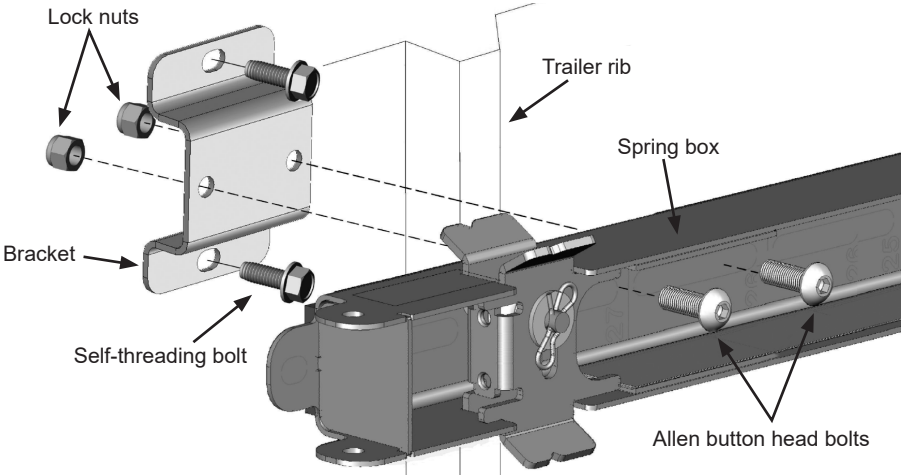
**NOTE:** This bracket is intended as an alternative mounting point if needed when installing spring boxes on trailer with exterior structural ribs.

A. Position bracket between ribs on solid mounting surface of box wall to fill gap between wall and spring box.

B. Mark bolting locations. Drill (2) 5/16" holes. Fasten bracket to box wall with 3/8" x 1" self-threading bolts.

**IMPORTANT:** If mounting bracket to thin sheet metal, use extra nuts, flat washers and lock washers on back side of wall to secure bracket.

C. Mount spring box to bracket using 3/8" x 1" Allen button head bolts and lock nuts as shown, tighten with 7/32" Allen wrench. Continue mounting remainder of spring box as specified in spring box installation section of the owner's manual.



# TROUBLESHOOTING

Cannot fully open tarp.

- Drive line tension may be too tight. Check spring box for proper tension.
- Ensure spring is clear of obstacles within spring box.
- Tarp has been altered or improperly repaired.

Tarp sags in middle area.

- Bows may be spaced too far apart, bent, or adjusted too low. Self-threading bolt that secures bow height adjustment may be missing.
- Missing or loose ridge strap.

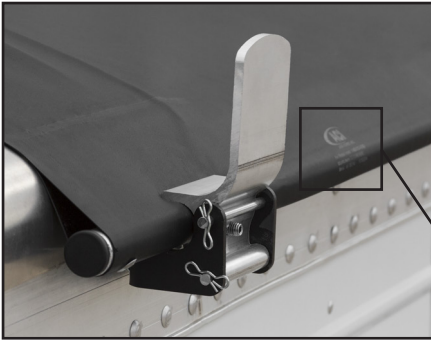
Holes or tears in tarp.

- Contact your local Agri-Cover dealer for replacement tarp or tarp repair kit.
- When new tarp or parts are needed replace with original Agri-Cover parts.

# INSPECTION AND MAINTENANCE

Periodic preventive maintenance should be practiced:

- Inspect tarp and hardware for abrasions or loosened bolts that may need adjustment. Adjust tension when needed. Tarp must be kept to a recommended tension setting equally on both ends, or excessive tarp wear may occur.
- Tarp should always operate as well as when first installed. Make all appropriate repairs or adjustments immediately before serious damage occurs.
- Check the tightness of mounting bolts and electrical connections, remove any dirt or corrosion that may have accumulated on the electrical connections.
- Always use genuine Agri-Cover, Inc. replacement parts, use serial number to easily order replacement tarp.



Serial number is located at rear  
of tarp on stationary tube side



# MANUFACTURER'S LIMITED WARRANTY

Agri-Cover, Inc. extends the following Limited Warranty on its AUTOLOCK® Electric Tarp:

Agri-Cover, Inc. warrants its AUTOLOCK® Electric Tarp to be free from defects in material and workmanship under normal use for one (1) year from date of manufacture unless accompanied by proof of purchase. The one (1) year warranty start date can be found on the unit (motor and gearbox). Check both and refer to the oldest date shown. This Limited Warranty does not cover any failure due to abuse, misuse, alteration, neglect, improper assembly or installation, or improper maintenance.

ANY IMPLIED WARRANTY APPLICABLE TO THE AUTOLOCK® ELECTRIC TARP IS LIMITED IN DURATION TO ONE YEAR FROM THE DATE OF MANUFACTURE UNLESS ACCOMPANIED BY PROOF OF PURCHASE. Agri-Cover Inc.'s sole obligation under this Limited Warranty or any implied warranty is limited to the repair or replacement at its option, of defective parts only. No labor or service allowance is given or implied. IN NO EVENT SHALL AGRI-COVER, INC. BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES. EXPRESSLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY, AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE LIMITED WARRANTY DESCRIPTION CONTAINED HEREIN.

For warranty, have serial number ready and fill out the warranty claim form at [agricover.com/warrantyclaim](http://agricover.com/warrantyclaim) or call Customer Service Department at 800-233-4655 to determine if only a replacement part is needed or if the tarp needs to be returned for inspection and repair. Goods to be returned must have a pre-authorized RA # (Return Authorization Number) – obtained by calling the number above. Mark the number on the package and ship it freight prepaid to address below. Agri-Cover will pay freight to return goods to sender.

This Limited Warranty gives you specific legal rights and you may have other rights, which vary, from state to state.

For replacement parts shop at [agricoverparts.com](http://agricoverparts.com) or call Customer Service at 800-233-4655.



Agri-Cover, Inc.  
Customer Service Dept  
3000 Hwy 281 SE  
Jamestown, ND 58401  
Phone: 800-233-4655

**Hours: 8:00 am - 5:00 pm CST Monday through Friday, except Holidays**