ROLTEC®
ELECTRIC TARP CONVERSION

REAR SIDE MOUNTED SPRING BOX INSTRUCTIONS

Use these instructions to install a side mounted spring box. Read and follow these instructions along with the standard instructions carefully before installing or using ROLTEC® Electric Tarp Conversion.

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, 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.

ACI™
AGRI-COVER, INC.
Questions? 800-233-4655
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PREPARATION

Unpack spring box components at side of trailer and clean mounting location.

NOTE: Hardware appearance and components may vary.

COMPONENTS

- Spring return with hardware
- Spring and pulley with hardware
- Spring box cover
- Drive line cord
- Roller bracket
- Wear roller
- (6) 1/4” x 3/4” x 5” Weather strips
- Return wear channel

TOOLS NEEDED

- Protective eyewear
- Tape measure
- Marking pencil
- Drill with 3/8” and 5/16” drill bit
- Center punch
- Impact wrench with 9/16” socket
- 7/32” Allen wrench
- (2) 9/16” Wrenches
- Pliers

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.

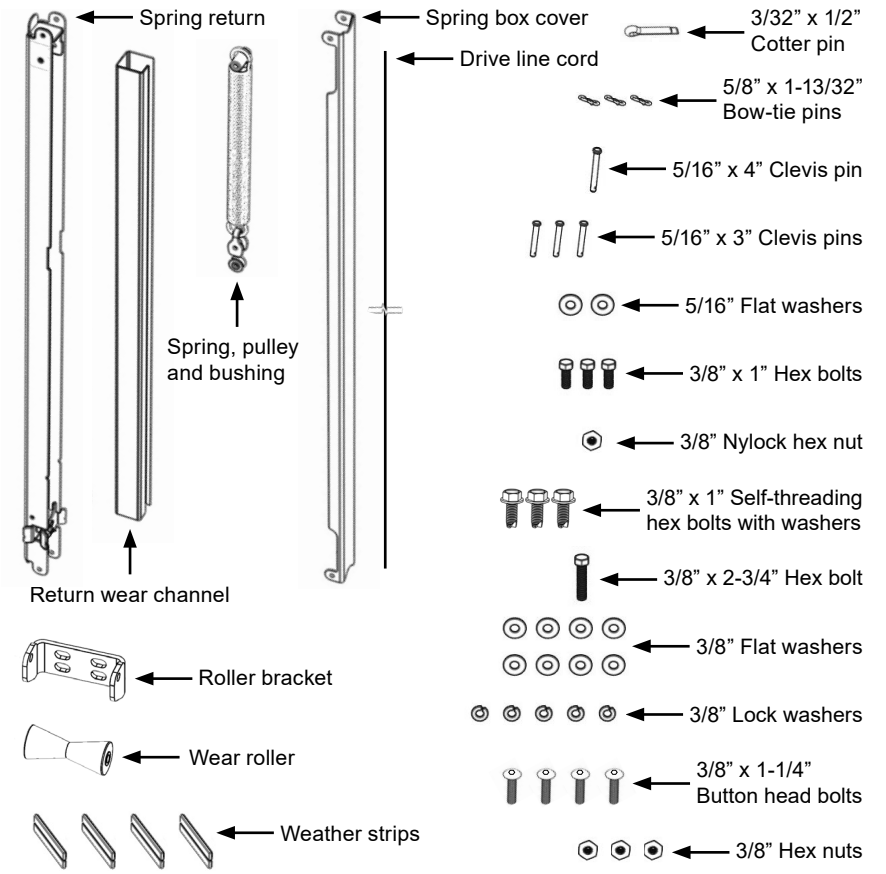
INSPECTION AND MAINTENANCE

- Periodic preventive maintenance should be practiced. Inspect tarp system often for proper operation.
- Periodically inspect rear arm components and replace worn parts as needed.
- Always use genuine Agri-Cover, Inc. replacement parts if repairs are needed.
- Periodically check the tightness of mounting bolts.

SAFETY INFORMATION

- Be aware that front and rear arms move during operation. Ensure people and objects are clear of tarp system before and during operation.
- Do not use front or rear arms as a step.
- Always use caution when operating tarp.
- Disconnect power before servicing system or electrical components.
- Ensure tarp is fully open before unloading or loading.
- Do not operate tarp with box hoisted in elevated position.
- If tarp is covered with snow, remove before operating.
- End caps must be free from commodity that may be piled on them. Commodity should not be piled higher than end caps.
- Ensure tarp system is fully open or fully closed before operating vehicle at highway speeds.
- Instruct everyone who will operate this tarp on the proper procedures.
- Do not directly spray electric motor or connections with a pressure washer.

PARTS DIAGRAM



REMOVING REAR RETURN SYSTEM

A. Move tarp to position with least amount of tension on return system. Uninstall current return system connected to rear of trailer.

⚠ WARNING: When removing return system under pressure, always use caution and assistance from another person. Before attempting to remove return system, always move arm to position with least amount of tension.

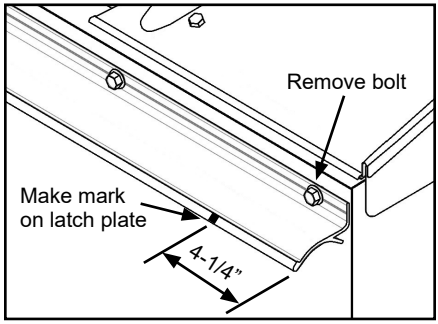
IMPORTANT: Disconnect power before servicing system or electrical components.

1: TRIM EXISTING LATCH PLATE

IMPORTANT: Disconnect power before servicing system or electrical components.

A. Remove latch plate bolt at rear, save for Step 1D. Measure 4-1/4” in from end of latch plate and make mark.

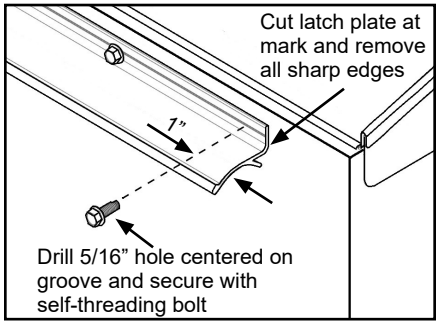
IMPORTANT: Ensure tarp will still rest on latch plate.



B. Loosen latch plate from box and make square cut at mark on latch plate.

C. Remove all sharp edges and burrs.

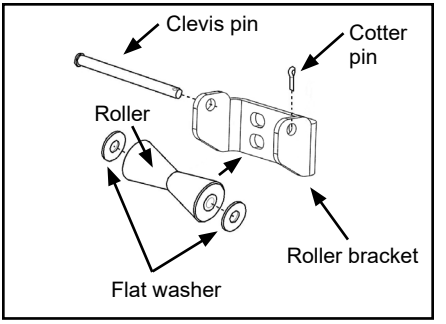
D. Measure in 1” from cut end and use small groove line on latch plate as center point to drill 5/16” hole. Fasten with previously removed bolt from Step 1A.



2: INSTALLING ROLLER GUIDE

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.

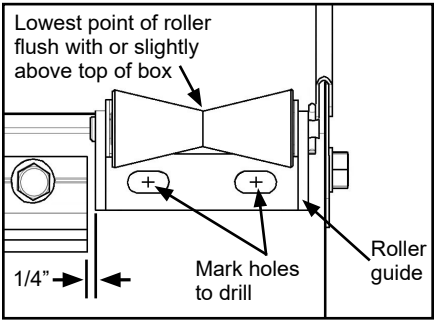
NOTE: Cotter pin should always face away from tarp.



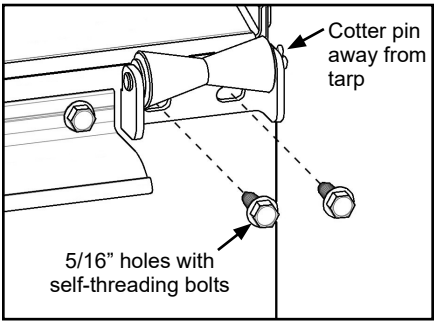
B. Position roller guide 1/4” from latch plate. Lowest point of roller should be flush with or slightly above top surface of box.

NOTE: Roller bracket should not interfere with end cap.

C. Mark best bracket hole locations for your application.



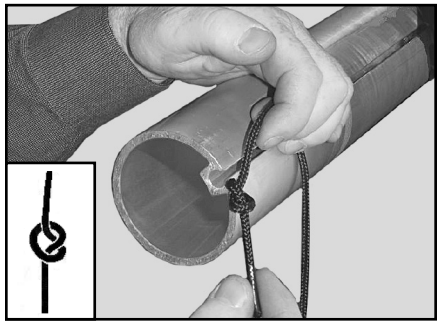
D. Drill 5/16” holes at marks. Attach bracket to box wall by turning (2) 3/8” x 1” self-threading bolts to cut threads, then turn back out. Secure using (2) 3/8” x 1” bolts, when possible use washer and lock nuts on backside.



3: WRAPPING DRIVE LINE CORD ON ROLL TUBE

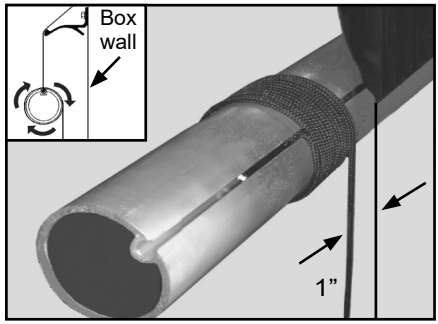
A. Unpack spring box, remove cover and set drive line and all contents aside.

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.



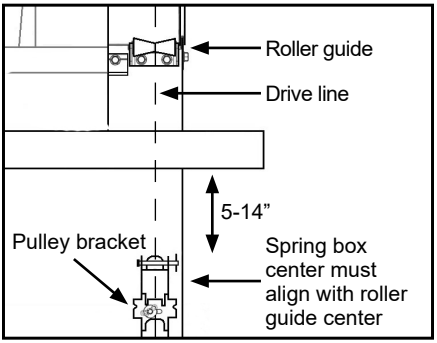
4: MOUNTING SPRING BOX

Perform one of the following to mount spring box:

VERTICAL SPRING BOX

A. With roll tube hanging down, position spring box 5-14” 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.

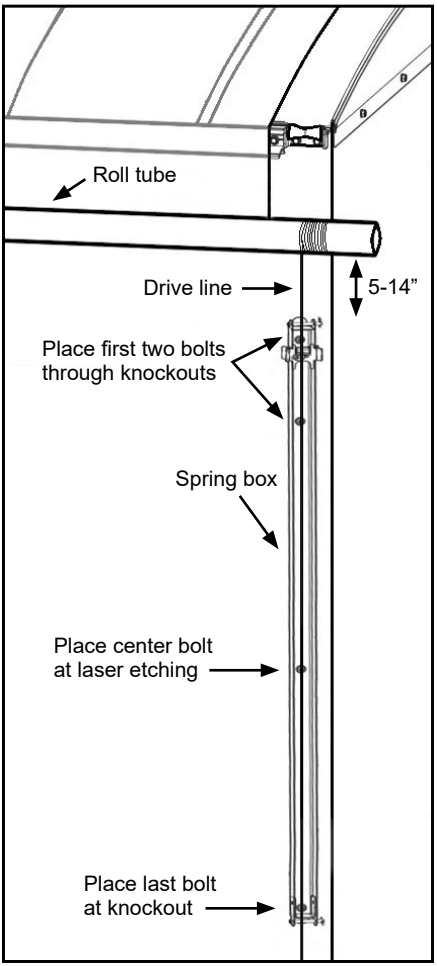


C. Select solid bolting locations (such as rivet lines or ribs) for (2) bolts near pulley bracket (4” and 12” from edge of spring box) and last bolt near opposite end of spring box. Remove knockouts and make marks.

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

E. Before drilling, ensure all marks are at solid locations and center of spring box is aligned with center of roller guide. Drill 5/16” holes at marks.

IMPORTANT: Do not bolt to box at this time, wait until Step 5H.



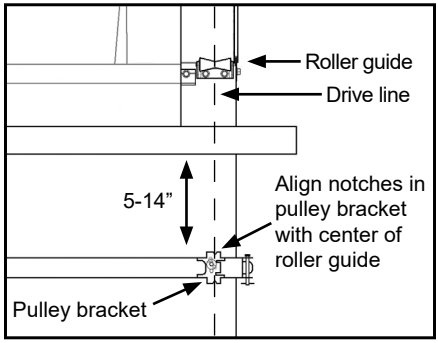
4: MOUNTING SPRING BOX (Continued)

HORIZONTAL SPRING BOX

NOTE: On trailers with ribbed walls, bolt spring box to ribs. If needed, optional mounting brackets are available. (See page 14)

A. With roll tube hanging down, position spring box 5-14” 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 (+/- 1/2”). Adjust drive line cord on roll tube if needed.

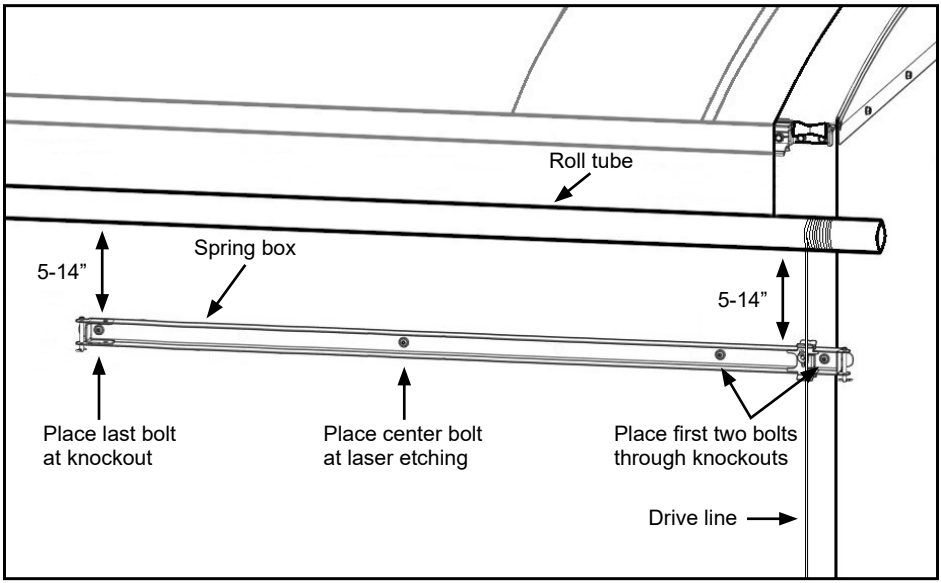


C. Select solid bolting locations (such as rivet lines or ribs) for (2) bolts near pulley bracket (4” and 12” from edge of spring box) and last bolt near opposite end of spring box. Remove knockouts and make marks.

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

E. 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 marks.

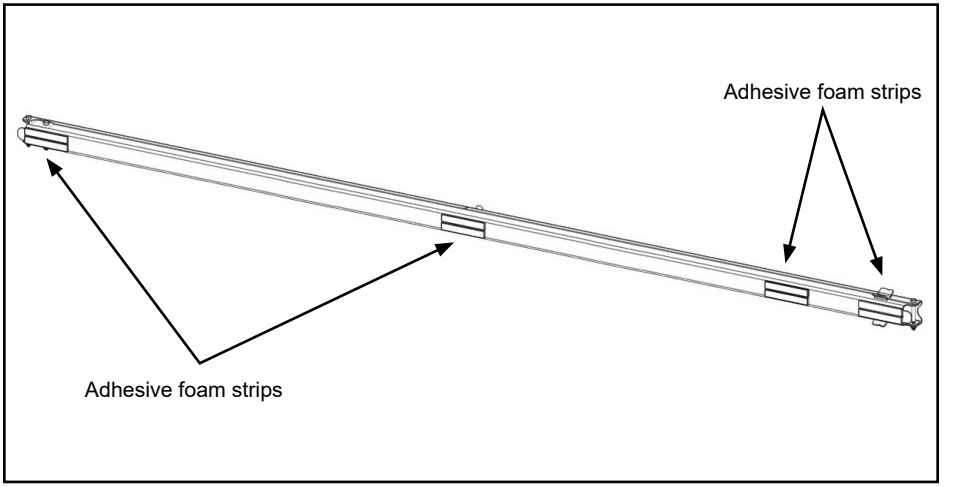
IMPORTANT: Do not bolt to box at this time, wait until Step 5H.



4: MOUNTING SPRING BOX (Continued)

BOTH VERTICAL AND HORIZONTAL SPRING BOX

F. On backside of spring box apply adhesive foam strips, one on top and bottom of each bolting location.

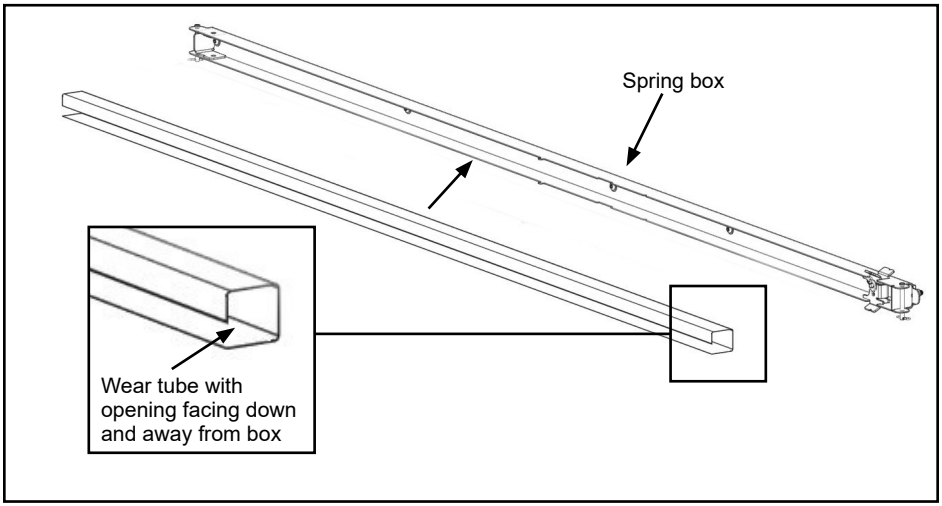


G. Use 3/8” x 1” self-threading bolt to cut threads for button head bolts at each location.

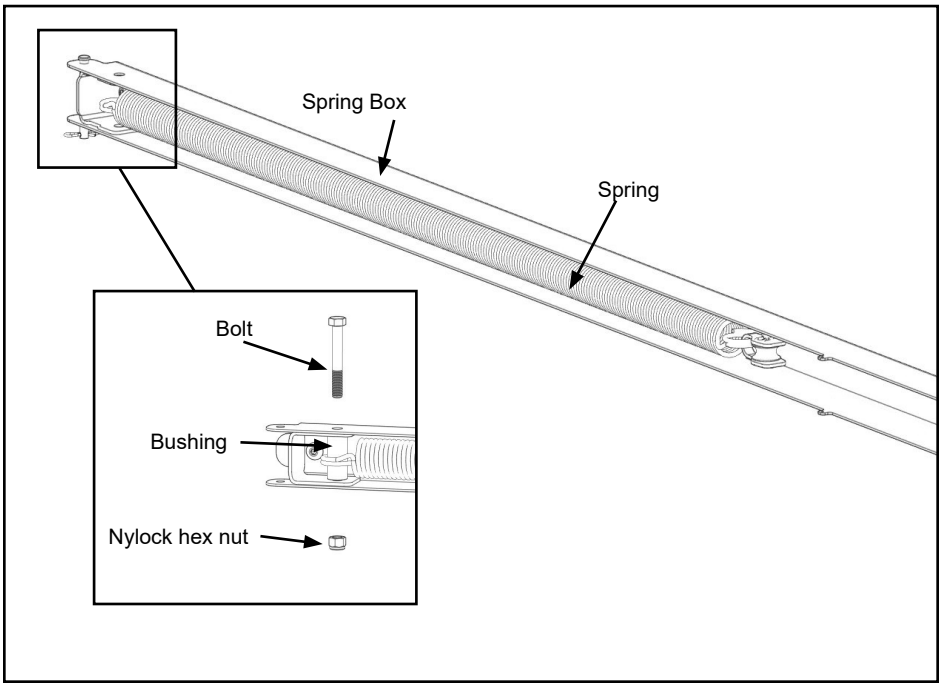
H. Realign spring box with holes and secure with 3/8” x 1-1/4” button head bolt and 3/8” flat washer at each location. With pulley bracket notches in line with cord, tighten bolts with a 7/32” Allen wrench.

5: INSTALLING 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, tighten until snug.

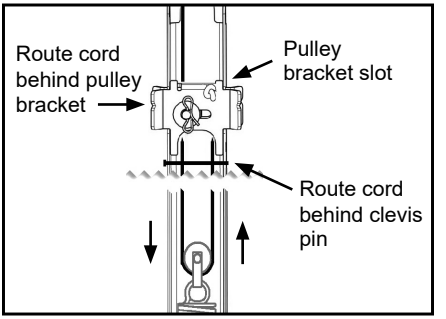


6: SETTING TENSION

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

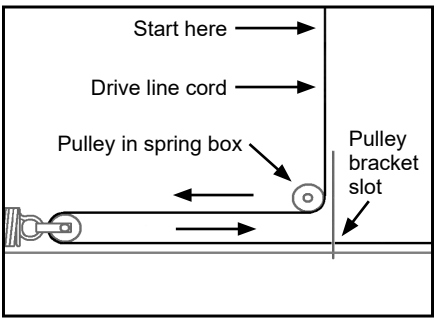
VERTICAL SPRING BOX

A. Route drive line 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.



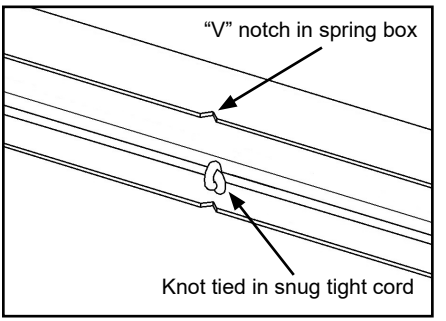
HORIZONTAL SPRING BOX

A. Route drive line 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.

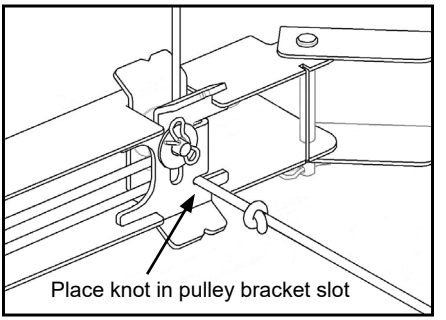


BOTH VERTICAL AND HORIZONTAL SPRING BOX

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

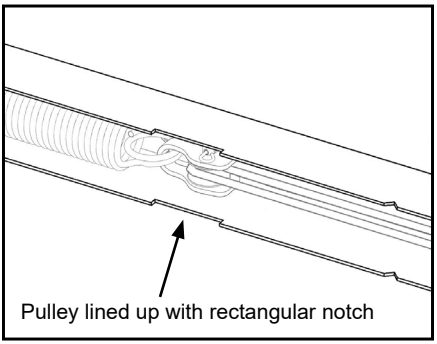


C. Pull cord through pulley bracket, stretching spring and place knot in pulley bracket slot.



6: SETTING TENSION (Continued)

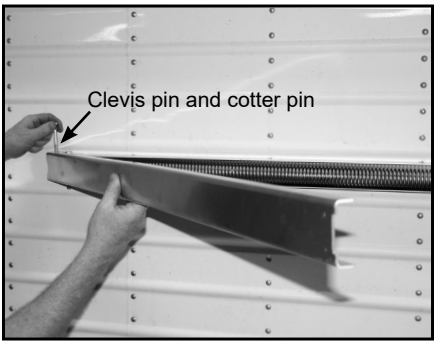
D. Connect tarp electrical system, check spring tension after the first open and close cycle of the tarp. Spring is properly tensioned when pulley settles back and lines up approximately with rectangular notch on spring box.



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

NOTE: If applicable, always ensure drive lines are tensioned equally at front and rear of tarp.

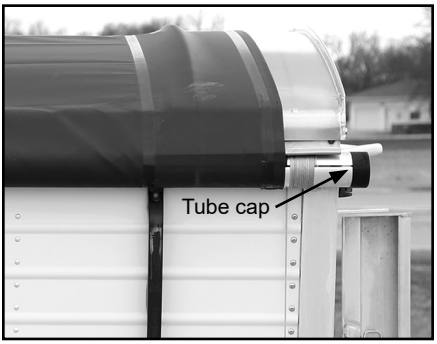
F. Align holes in door with holes at one end of spring box and insert 5/16” x 3” clevis pin and cotter pin. Swing door closed then insert clevis pin and cotter pin at opposite end.



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

7: INSTALLING TUBE CAP

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



INSTALL OPTIONAL MOUNTING BRACKET

NOTE: Bracket is an alternative mounting point to install spring box on trailer with exterior structural ribs. If needed, order PN 70299.

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

B. Mark bolting locations. Drill 5/16” holes and fasten with (2) 3/8” x 1” self-threading bolts.

IMPORTANT: If mounting to thin sheet metal, use extra nuts, flat washer and lock washer (included in kit) on backside of wall to secure bracket.

C. Mount spring box to bracket using (2) button head bolts and lock nuts. Continue mounting remainder of spring box as specified in spring box installation section.

D. Repeat Steps A-C to install mounting bracket at opposite end of spring box.