



ENGINEERED TARPING SOLUTIONS

P/N 1106720 Rev. C

OWNER'S MANUAL



Turning Point Bow™ System

READ BEFORE INSTALLING

PO BOX 713 ■ 2309 SHUR-LOK STREET ■ YANKTON, SD 57078-0713
PHONE 1-800-4-SHUR-LOK (1-800-474-8756) ■ FAX 605-665-0501
www.shurco.com

SHOP ONLINE: www.shopshurco.com

Shur-Co.® warrants that all new, unused products are free from defects in materials and workmanship. This warranty is effective if the product is properly installed and used for the purpose intended and applies to the original buyer only. Shur-Co.'s obligation under this warranty is limited to repairing or, at its option, replacing any part that is returned, transportation prepaid, to Shur-Co.®, Yankton, SD. If the product is, in our judgement, in fact defective. All materials returned without written authorization will be refused. Shur-Co.® shall not be responsible to supply or pay labor to replace any part found defective, nor shall it be liable for any damages of any kind or nature to person, product or property.

There are no warranties for used products or products that have been repaired, altered, modified, subjected to misuse, negligence, accident or ordinary wear and tear.

Shur-Co.® products are sold without any express warranty except as set forth above.

No person is authorized to modify the foregoing warranty in any respect whatsoever.

Shur-Co.® is not obligated to honor warranty claims if approved O.E.M. or Genuine Shur-Co.® parts are not utilized.

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 2309 Shur-Lok St., PO Box 713
 Yankton, SD 57078-0713
 Phone: 1-800-4-SHUR-LOK
 (1-800-474-8756)
 Fax: 1-605-665-0501

SERVICE CENTERS

Shur-Co.® of North Dakota
 920 38th St. NW, Exit 66
 Fargo, ND 58102
 Phone: 1-701-277-5714
 Fax: 1-701-877-1283

Shur-Co.® of Ohio
 1100 N. Freedom, PO Box 827
 Ravenna, OH 44266
 Phone: 1-330-297-0888
 Fax: 1-330-297-5599

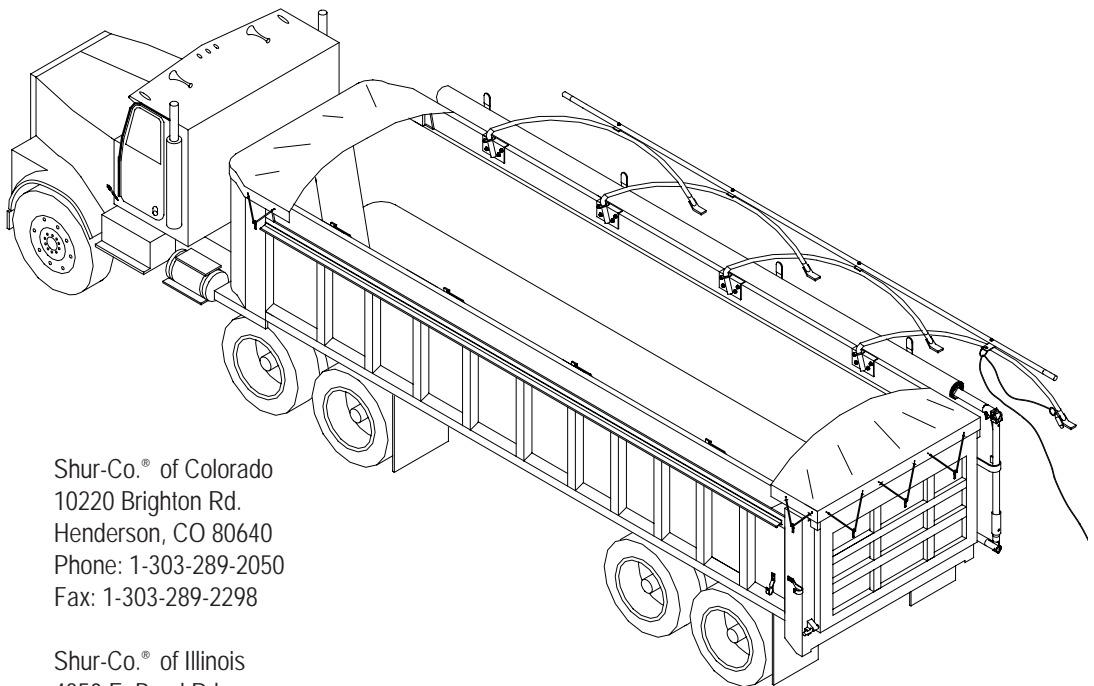
Shur-Co.® of Texas/Houston
 34505 I-10 West, S. Frontage Rd.
 Brookshire, TX 77423
 Phone: 1-281-934-1007
 Fax: 1-281-934-3311

Shur-Co.® of Oklahoma
 1604 E. US Hwy 66
 El Reno, OK 73036
 Phone: 1-405-262-7600
 Fax: 1-405-262-3842

Shur-Co.® of Colorado
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 Henderson, CO 80640
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Shur-Co.® of Illinois
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 Decatur, IL 62521
 Phone: 1-217-877-8277
 Fax: 1-217-877-8270


Shur-Co.® of Iowa
 3839 Midway Blvd.
 Ft. Dodge, IA 50501
 Phone: 1-515-576-0959
 Fax: 1-515-576-5578



Turning Point Bow™ System

MESSAGE TO OWNERS

Thank you for buying this tarping system from Shur-Co.® We appreciate your confidence in our products. Please read and thoroughly understand this manual before installing and/or operating this system.

Pay particular attention to important safety and operating instructions, as well as warnings and cautions. The hazard symbol  is used to alert users to potentially hazardous conditions and is followed by caution, warning or danger messages.

Failure to READ AND FOLLOW INSTRUCTIONS could result in failure of your tarping system and/or personal injury. Your trailer requirements may, however, call for minor variations to these instructions.

Please inspect your tarping system periodically. Repair or replace worn or damaged parts to your system.

QUESTIONS? CALL OUR HELP LINE:

1-866-748-7435

MON-FRI 8 AM-5 PM CENTRAL TIME

SAFETY

We at Shur-Co.® are concerned with your safety and the safety of all those operating this system. Therefore, we have provided safety decals at various locations on your tarping system. Keep decals as clean as possible at all times. Replace any decal that has become worn or damaged, painted over or otherwise difficult to read. Replacement decals are available through Shur-Co.® dealers.

 SAFETY INSTRUCTIONS

1. Always wear safety glasses during installation.
2. Keep body and clothing clear of moving parts.
3. Do not operate under potentially dangerous obstacles.
4. Return bows to secure position after operation.
5. Secure latch on rear bow rest before raising trailer, to prevent bows from contacting undesired objects.
6. Use only OSHA approved ladders or scaffolding during installation process.
7. Close bows fully before raising trailer.

RUST PREVENTION

To prevent rust, paint all exposed metal, such as weld seams and/or metal exposed by grinding or cutting, with corrosion-resistant paint.

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TOOLS REQUIRED

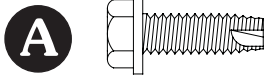
1. Tape Measure
2. Hammer
3. Steel Welder
4. Grinder
5. Hacksaw (Metal Cutting Saw)
6. Center Punch or Transfer Punch
7. 3/8" Drill
8. 5/16" Drill Bit
9. 3/8" Drill Bit
10. 1/2" Wrench
11. 9/16" Wrench
12. Ratchet
13. 1/2" Deep Socket
14. 9/16" Deep Socket
15. Air or Electric Impact Driver
16. 3/8" Impact Socket
17. 9/16" Impact Socket

PARTS INSPECTION

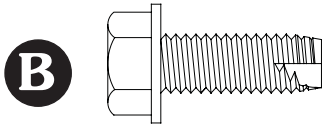
Inspect all parts in your Automated Turning Point Bow™ kit upon arrival. Please inspect your tarping system regularly, and repair or replace parts when continued use could damage your system.

OPERATION

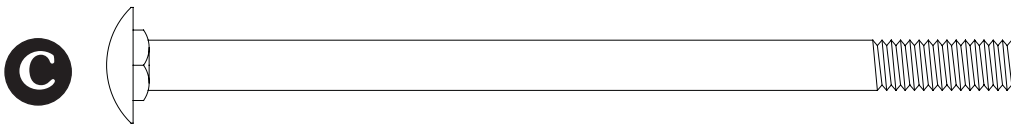
1. Roll tarp aside.
2. Release rope from box hooks.
3. Check for overhead for obstructions. Bows will raise about 12 inches above closed position.
4. Pull rope rearward and tie to box hooks, restricting return of bows.
5. Load trailer.
6. Untie rope, release rope to allow bows to return to closed position.
7. Leave slack in rope, wrap excess rope around box hooks. Store pull rope on box hooks when not in use.



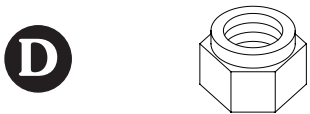
1700403 Self-Tapping Screw - 1/4" x 3/4"



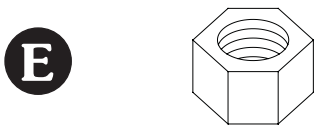
1700400 Self-Tapping Screw - 3/8" x 1"



1701216 Carriage Bolt - 5/16" x 5 1/2"



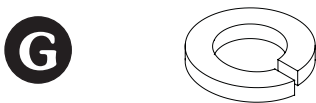
1700419 Nylon Lock Nut - 5/16"



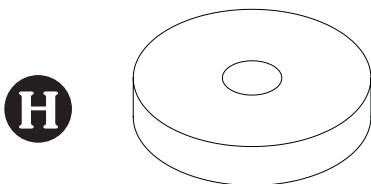
1700407 Hex Nut - 3/8"



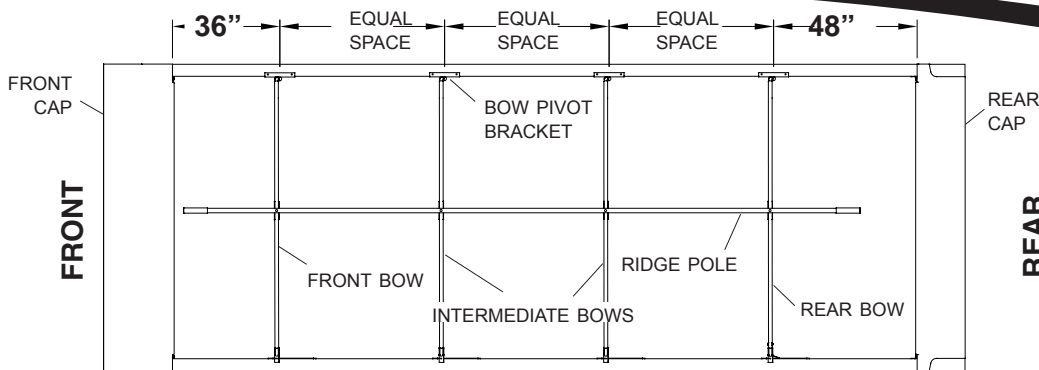
1700427 Flat Washer - 1/4"



1700434 Lock Washer - 3/8"



1701215 Washer - 1/4" x 1 1/4"



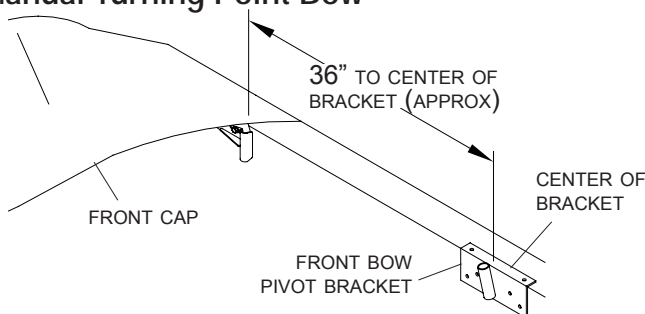
REAR The Turning-Point Bow™ System allows the bows to open to the side of the trailer, so the trailer can be loaded and unloaded without damaging the bows. The operator can easily rotate the bows to the side of trailer while standing on the ground.

STEP 1: Install front and rear caps per Shur-Lok® owner's manual before installing Turning-Point Bow system.

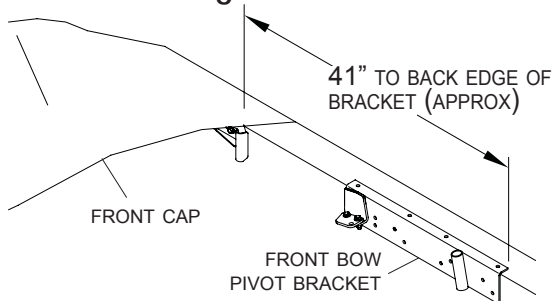
STEP 2: Locate FRONT bow pivot bracket on passenger side of trailer, 36" from front cap. Mark and drill 5/16" holes.

NOTE: If top rail has planks, top of bracket must not extend over plank. Additional bracketry may be required.

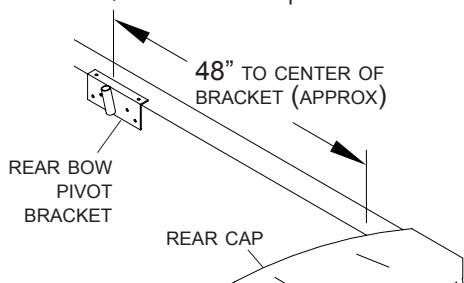
Manual Turning Point Bow™



Automated Turning Point Bow™

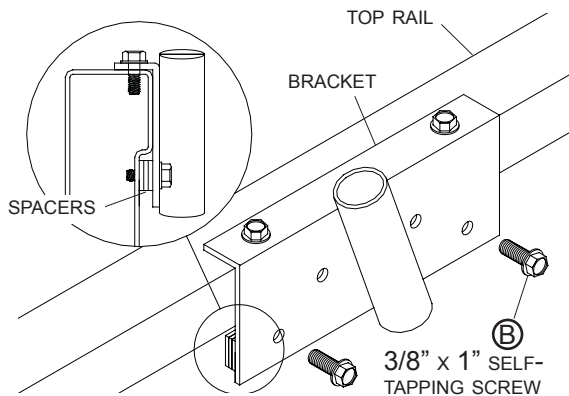


STEP 3: Locate REAR bow pivot bracket on passenger's side of trailer, 48" from rear cap. Mark and drill 5/16" holes.



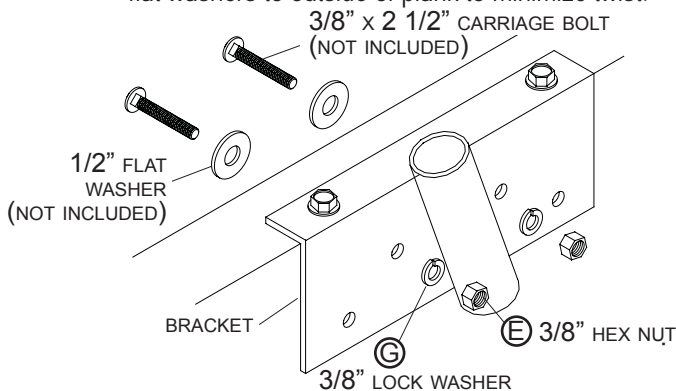
STEP 4: Equally space remaining bow pivot brackets. Mark and drill 5/16" holes.

STEP 5: **A) Steel Top Rails:** Mount bow pivot bracket with (4) four 3/8" x 1" self-tapping screws through top of bracket, and through upper or lower hole pattern on side of bracket.



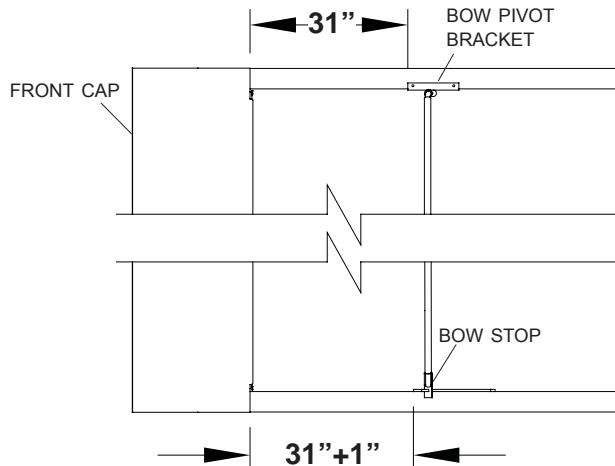
TIP - If installing spacers, align center of spacers with holes in bracket and predrill holes. Tape works well to keep spacers from slipping while drilling holes.

B) Rails w/Planks: Mount bow pivot brackets with 3/8" x 1" self-tapping screws and 3/8" x 2 1/2" carriage bolts, lock washers and nuts as shown. Secure 1/2" flat washers to outside of plank to minimize twist.



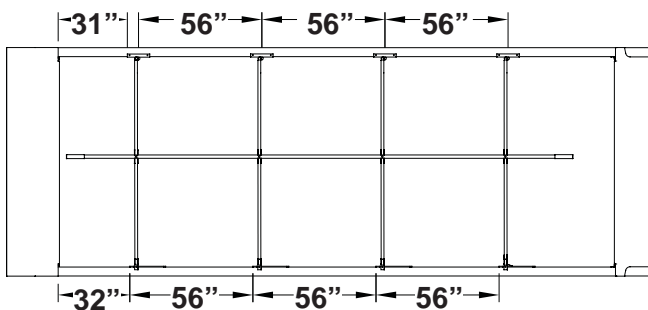
CAUTION
Mount pivot bow brackets to planks securely because they must withstand considerable stress.

STEP 6: Locate bow stops across from pivot brackets. Measure distance from front edge of pivot bracket to inside edge of front cap. Add 1" to measurement to get distance from cap to front edge of bow stop bracket. Mark location on box.

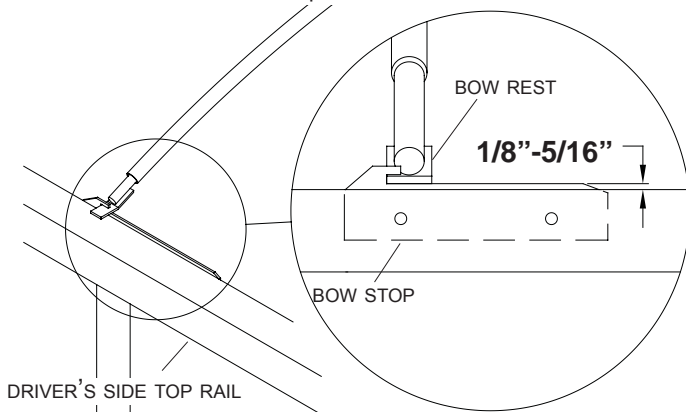


STEP 7: Space remaining bow stops to correspond with pivot brackets. Mark bow stop locations.

EXAMPLE:



STEP 8: Position bow stops at marked locations as shown with top surface of bow stops 1/8" - 5/16" above top rail. Locate bow stop w/catch at rear bow.

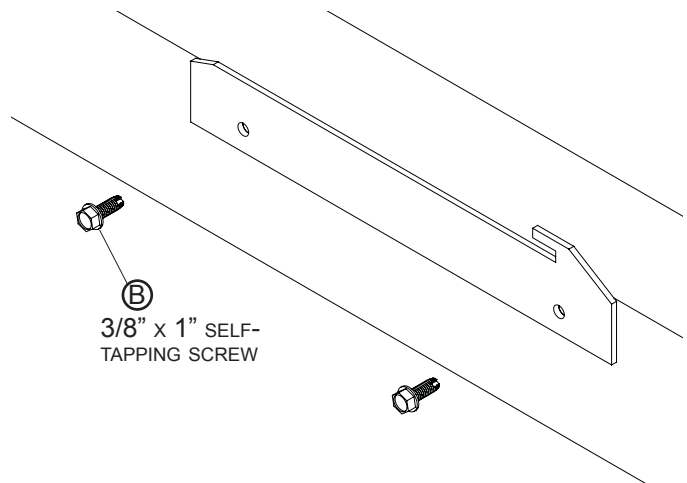


NOTE: If obstructions prevent locating bow stop w/catch at rear bow, it may be mounted on the next bow.

Steel/Aluminum Rails

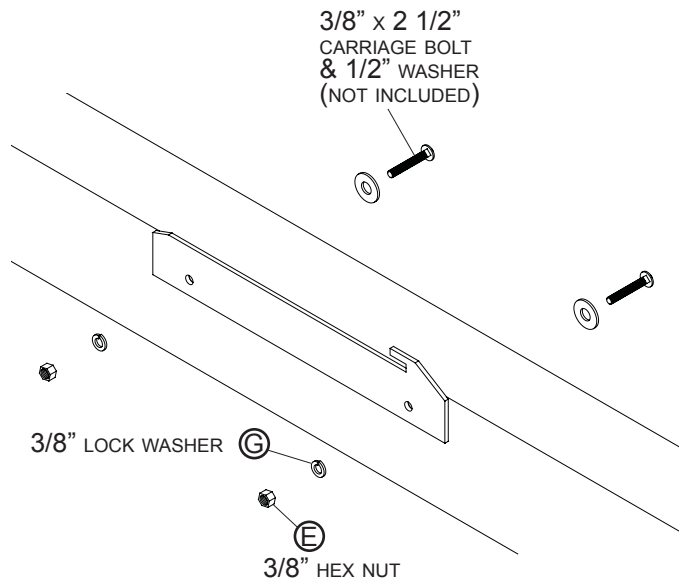
STEP 9A: Mark and drill 5/16" holes and secure with 3/8" x 1" self-tapping screws.

NOTE: Drill 5/16" holes for 3/8" x 1" self-tapping screws, and drill 3/8" holes for 3/8" x 2 1/2" carriage bolts.

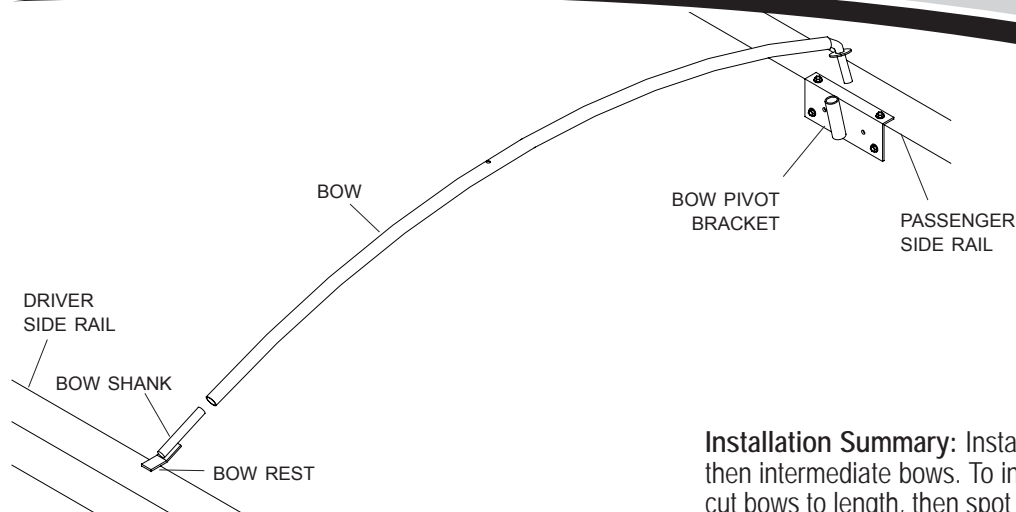


Rails with Planks

STEP 9B: Mark and drill 3/8" holes and secure with 3/8" x 2 1/2" carriage bolts, 1/2" flat washers, 3/8" lock washers, and 3/8" nuts.



STEP 10: Fasten bracket through drilled holes as shown above.

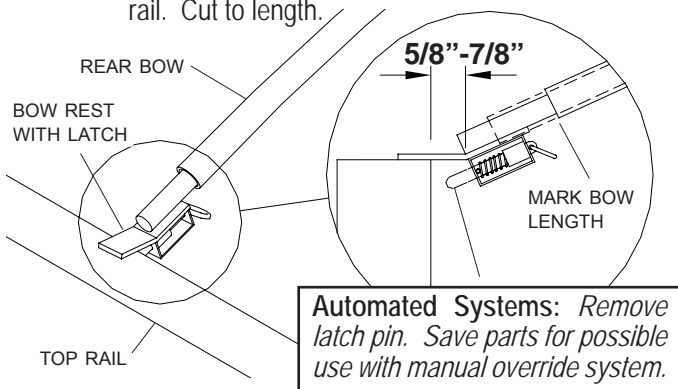


Installation Summary: Install rear bow first, then front bow, then intermediate bows. To install, align bow rests, mark and cut bows to length, then spot weld shanks to bows.

STEP 11: Grease or lubricate bow pivot brackets and insert bows into brackets. See caution.

CAUTION
DO NOT lubricate if you intend to haul fertilizers or hazardous material. Explosive chemical reaction could occur.

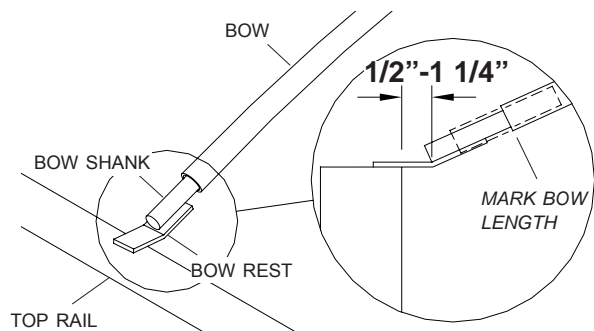
STEP 12: Determine bow length by aligning new bow rest provided in kit with bow and bow stop on top of side rail. Cut to length.



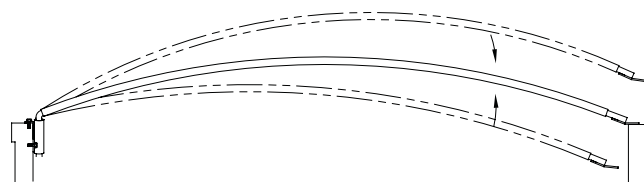
Automated Systems: Remove latch pin. Save parts for possible use with manual override system.

NOTE: If obstructions prevent locating bow rest on rear bow, it may be mounted on next bow.

STEP 13: Determine bow length by aligning bow rest with bow and bow stop on top of side rail. Cut to length.

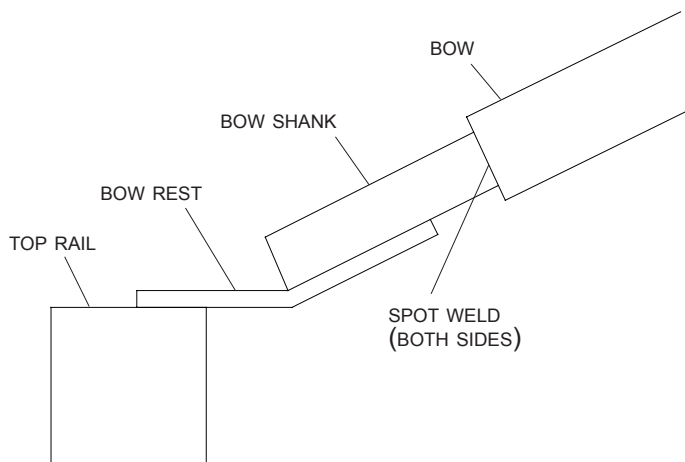


STEP 14: Adjust bow arch as needed, so that bow rest slides into bow stop smoothly. Adjust bow to desired arch by pulling up or down on bow.



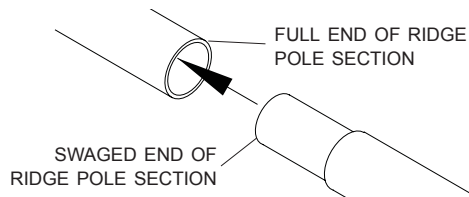
NOTE: Top rail fluctuation may affect position of bow rest on bow stop and top rail.

STEP 15: Weld bow rests to bows with 1/2" weld on each side of bow. De-burr sharp edges created by welding. Touch up with corrosion resistant paint.

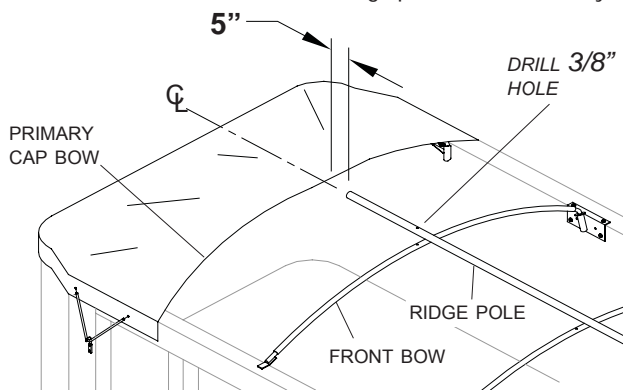


NOTE: Install ridgepole in the following manner so that bows will open to their full extent. Bows may set at a slight angle across truck when closed.

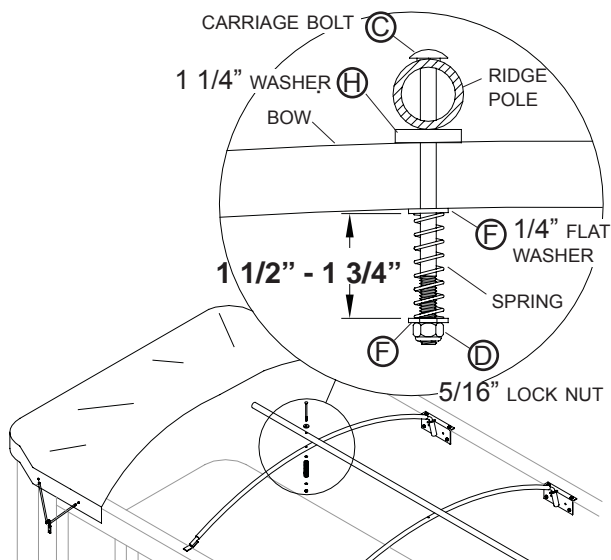
STEP 16: For longer boxes where two ridge pole sections are required, insert swaged end of first ridge pole section into full end of second pole section. Align sections, weld, and grind smooth.



STEP 17: Center ridge pole across bows, 5" from primary cap bow. Mark and drill 3/8" hole in ridge pole at front bow only.



STEP 18: Fasten ridge pole to front bow with 5/16" x 5 1/2" carriage bolt, washer, spring, flat washers, and lock nut. Hammer bolt head lightly to seat carriage bolt into ridge pole.

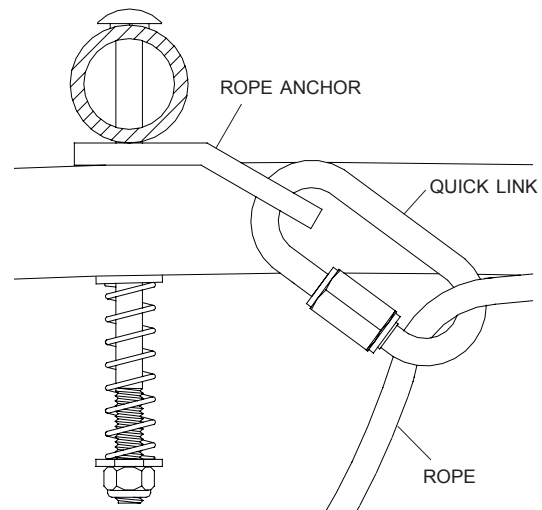


STEP 19: With bows closed, center ridge pole over hole in second bow. Using hole in bow as a guide, drill 3/8" hole through ridge pole. Fasten ridge pole to second bow in same manner as front bow (see Step 18). Repeat for remaining bows.

NOTE: See Step 20 for additional information concerning latching bow.

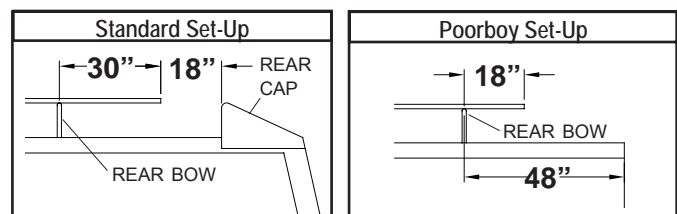
STEP 20: Fasten rear (latching) bow to ridge pole with rope anchor and quick link (instead of nylon washer).

NOTE: If bow rest with latch has been installed on another bow, fasten that bow to ridge pole with rope anchor and quick link.

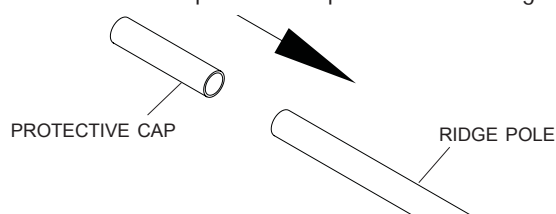


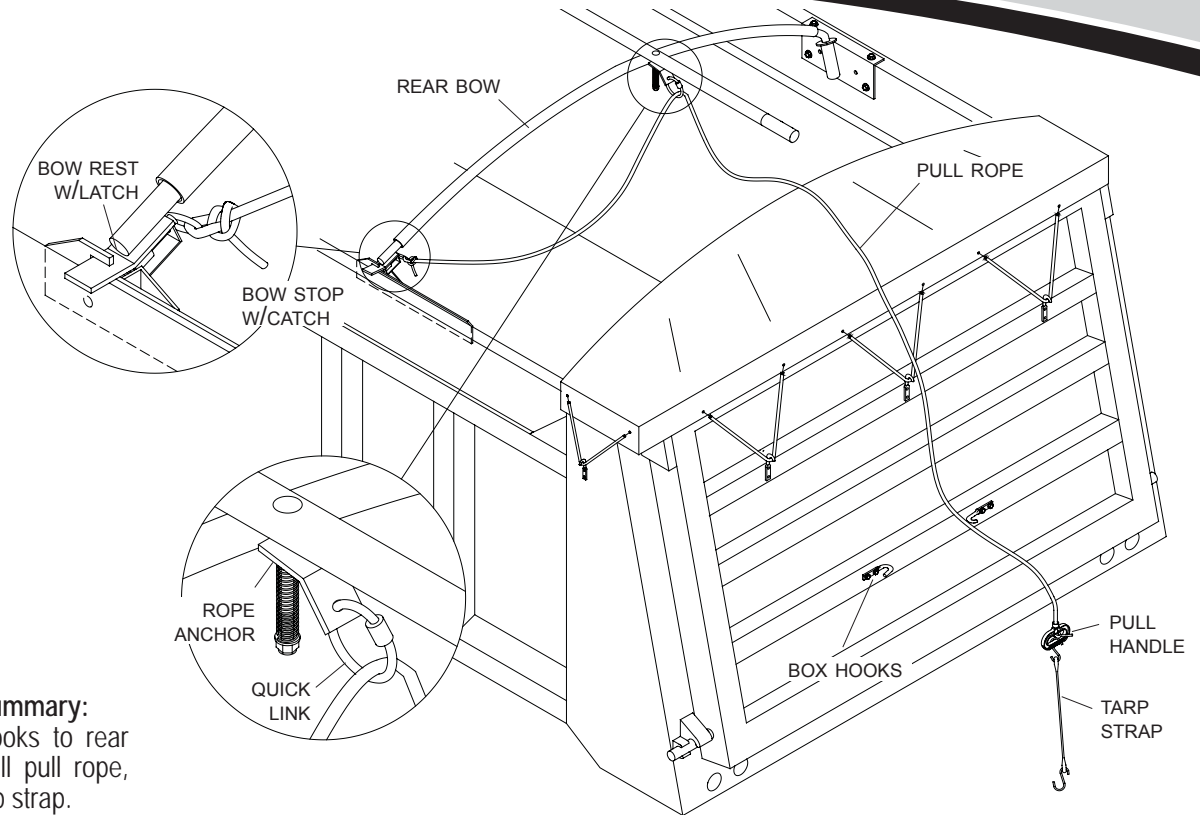
STEP 21: Standard Tarp: Cut ridge pole to stop 30" past rear bow, 18" from bow in cap.

Poor Boy Tail Tarp: Extend ridge pole past rear bow 18" to allow flap to slope toward tailgate.



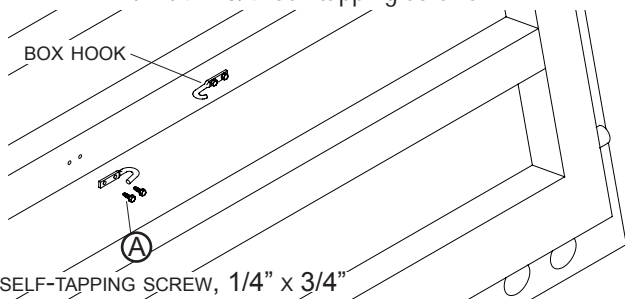
STEP 22: Install protective caps over ends of ridge pole.





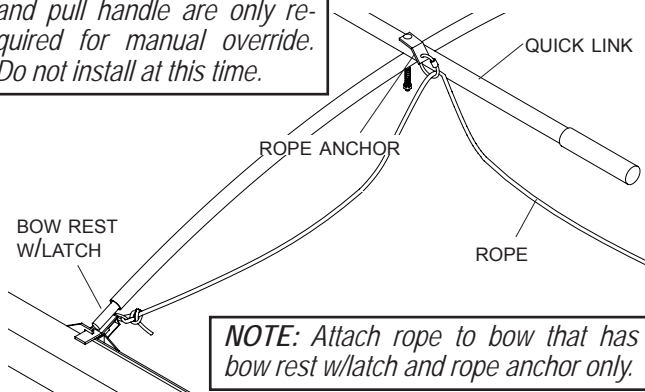
Installation Summary:
Fasten box hooks to rear gate and install pull rope, handle and tarp strap.

STEP 23: Install box hooks on rear of trailer, opposite each other with 1/4" x 3/4" self-tapping screws.

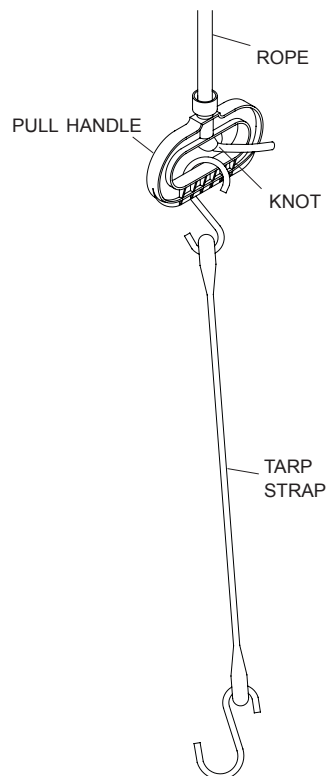


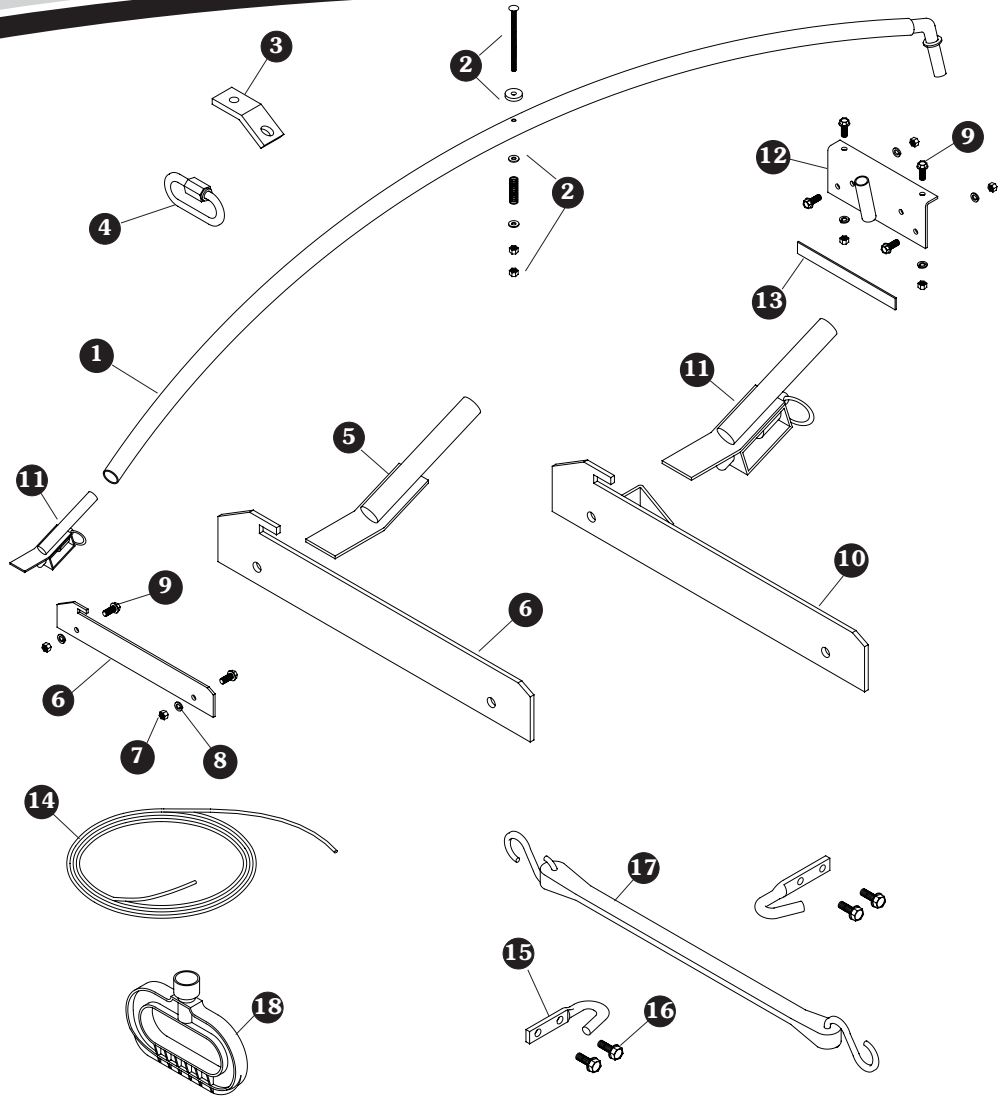
STEP 24: Insert rope through quick link and tie rope securely to bow rest w/latch.

Automated Systems: Rope and pull handle are only required for manual override. Do not install at this time.



STEP 25: Insert rope through pull handle and tie knot. Hook tarp strap to pull handle.





Part #	Description
1105346	Turning Point™ Low Rise Bow Kit - 3 Bows
1105347	Turning Point™ Low Rise Bow Kit - 4 Bows
1105348	Turning Point™ Low Rise Bow Kit - 5 Bows
1105349	Turning Point™ Low Rise Bow Kit - 6 Bows
1105350	Turning Point™ Low Rise Bow Kit - 7 Bows
1105341	Turning Point™ High Rise Bow Kit - 3 Bows
1105342	Turning Point™ High Rise Bow Kit - 4 Bows
1105343	Turning Point™ High Rise Bow Kit - 5 Bows
1105344	Turning Point™ High Rise Bow Kit - 6 Bows
1105345	Turning Point™ High Rise Bow Kit - 7 Bows
1105339	Pull Rope Assembly

Item	Part #	Description
1.	1105337	Turning Point™ Low Rise Bow
	1105331	Turning Point™ High Rise Bow
2.	1110368	Bow Attachment Spring Assembly
3.	1105325	Pull Rope Anchor
4.	1701219	Quick Link - 5/16"
5.	1105333	Bow Rest Low Rise
	1105327	Bow Rest High Rise
6.	1105314	Bow Stop
7.	1700407	Hex Nut - 3/8"
8.	1700434	Lock Washer - 3/8"
9.	1700400	Self-Tapping Screw - 3/8" x 1"
10.	1105320	Turning Point™ Bow Stop w/Catch
11.	1105338	Bow Rest/Latch - Low Rise
	1105322	Bow Rest/Latch - High Rise
12.	1105317	Bow Pivot Bracket/Spacers
13.	1107006	Pivot Bracket Spacer
14.	1100469	Rope - 32'
15.	1700682	Box Hook - 5/16" Holes
16.	1700403	Self-Tapping Screw - 1/4" x 3/4"
17.	1700649	Rubber Strap - 15'
18.	1106929	Pull Handle

MORE QUALITY PRODUCTS FROM SHUR-CO.®

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- Value Series Belt & Ratchet
- Premium Belt & Ratchet
- Shur-Lok® Junior
- Cable-Lok™ Spool Tarp
- 3500 Series Electric Shur-Lok®
- Value Series Electric Shur-Lok®
- Super Duty Electric Shur-Lok®
- SMARTrailer™ Accessories
- SMARTransmitter™
- ProTrap® Electric Hopper Door Opener
- Electric Turning Point Bow™ System
- Shur-Trak II™ Cable System
- Cover-Pro II® Cable System
- UltraSteel Arm System
- Arm-Matic™ Arm System
- Fitted & Flat Covers
- Turning Point Bow™ System
- Combine Hopper Ext. Covers
- Stock & Custom Flatbed Tarps
- Load Control Line
- Genuine Replacement Tarps
- Genuine Replacement Parts
- Solar Power Pack

ENGINEERED TARPING SOLUTIONS

