



TARPING SYSTEMS & ACCESSORIES

P/N 1107910 Rev. DD

OWNER'S MANUAL



Grain Carts & Gravity Wagons

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

SHIPPING. Orders are shipped F.O.B. from the Shur-Co®, LLC sites listed below. No full freight is allowed or prepaid shipment accepted unless quoted and approved in writing prior to acceptance of the order. All shipments are made by the most reasonable means in accordance with size and weight of order, unless specified routing instructions are furnished by the customer. Shipments are made daily via U.P.S. and common carrier. Claims for shortages must be made within 10 days. All claims for damages or loss in transit must be made with the carrier. No collect calls will be accepted. To ensure delivery of orders, we need your full street address and phone number. When you receive your shipment, examine it carefully. Be sure all cartons listed on the delivery sheet are accounted for. Large items may be packaged separately. If a carton is damaged, open it and inspect the contents before signing for delivery. If merchandise is damaged, describe damage on the delivery receipt. Failure on your part to document damaged or missing merchandise on the delivery receipt releases the carrier of all liability; repair or replacement will be the customer's responsibility.

WARRANTY. We warrant all new products are free of defects in materials and workmanship.* This warranty is effective if products are properly installed and used for the purpose for which they were intended and applies to the original buyer only. Except as set forth above or in any product-specific warranty documentation, we make no other warranties, express or implied, including but not limited to warranties of merchantability of fitness for a particular use.

Returns of a product for warranty must be accompanied by a Return Merchandise Authorization number (RMA#), obtained by calling Customer Service at 866-748-7435, and sent, with freight paid by us, to Shur-Co®, LLC, 2309 Shur-Lok St., PO Box 713, Yankton, SD 57078. All products returned without an RMA# will be refused. When we issue the RMA#, we will also issue a call tag to have UPS (or other freight company) pick up the product. C.O.D. returns not accepted. We will pay no storage fees for a warranty product return prior to pick by us or the freight company. If a warranty product return is scheduled to be picked up by us, we will pick up the product at our earliest convenience.

If a product returned is found, in our judgement, to be defective in material or workmanship, our obligation under this warranty is limited to the repair or replacement of the product, which will be made by us. Repair or replacement will be at our discretion, with replacements being made using current products performing in the equivalent function. Labor charges, other than those incurred at our factory, including, but not limited to, any labor to install a repaired or replacement product, are not covered under this warranty. All expenses associated with delivering defective products to our factory and delivering repaired or replacement products from our factory to the owner will be paid by us.

If the product returned is found, in our judgement, to be non-warrantable, the owner will be contacted to authorize repair work, purchase of a replacement product or return of the product, all of which will be at the owner's expense. Payment authorization must be received by us before any non-warrantable product is repaired, replaced or returned. All expenses associated with delivering the repaired non-warrantable product, a replacement product or the non-warrantable product from our factory to the owner will be paid by the owner.

In no event will we be liable for any damages of any kind to person, product or property, including but not limited to indirect, incidental, special, consequential or punitive damages, or damages for loss of profits or revenue, even if we have been advised of the possibility of such damages. There are no warranties for used products or products that have been repaired, altered, modified or subjected to misuse, negligence or accident. We will not repair or replace products that fail or malfunction due to ordinary wear and tear, except as expressly noted in a product-specific warranty. Use of non-Shur-Co®, LLC parts in conjunction with Shur-Co®, LLC products will void this product warranty.

*Certain products have specific warranties that differ from this warranty, for example motors and electronics. Product-specific warranty documentation is available for these items. In the event of a conflict between this warranty and a product-specific warranty, the product-specific warranty will govern.

RETURN POLICY. All sales final. See WARRANTY above for return details.

OTHER. All prices, product listings, sizes, weights and manufacturing details are subject to change without notice. No person is authorized to modify the foregoing conditions of sale whatsoever.

SHUR-CO®, LLC SERVICE AND DISTRIBUTION CENTERS

Corporate HQ and Outlet Store

SHUR-CO® of SOUTH DAKOTA

2309 Shur-Lok St., PO Box 713
Yankton, SD 57078-0713
Ph 800.474.8756 | Fax 605.665.0501

ShurTite™ Service Centers

SHUR-CO® of CANADA

490 Elgin St., Unit #1
Brantford, Ontario N3S 7P8
Ph 800.265.0823 | Fax 519.751.3997

SHUR-CO® of SIOUX FALLS

47184 258th St., Suite B
Sioux Falls, SD 57107
Ph 844.573.9322 | Fax 605.543.5469

SHUR-CO® of ILLINOIS

Ph 866.356.0246 | Fax 217.877.8270

SHUR-CO® of OHIO

Ph 866.356.0242 | Fax 330.297.5599

SHUR-CO® of FLORIDA

3353 SE Gran Park Way
Stuart, FL 34997
Ph 800.327.8287 | Fax 772.287.0431

SHUR-CO® of ILLINOIS

3993 E. Mueller Ave.
Decatur, IL 62526
Ph 866.356.0246 | Fax 217.877.8270

SHUR-CO® of IOWA

3839 Midway Blvd.
Ft. Dodge, IA 50501
Ph 866.356.0245 | Fax 515.576.5578

SHUR-CO® of MICHIGAN

5100 Lakeshore Dr.
Lexington, MI 48450
Ph 800.327.8287 | Fax 772.287.0431

SHUR-CO® of NORTH DAKOTA

1746 4th Ave. NW
West Fargo, ND 58078
Ph 877.868.4488 | Fax 701.277.1283

SHUR-CO® of OHIO

1100 N. Freedom, St. Rt. 88 & 14
Ravenna, OH 44266
Ph 866.356.0242 | Fax 330.297.5599

SHUR-CO® UK, Ltd.


Unit 41 Rochester Airport Estates
Laker Rd., Rochester, Kent ME1 3QX
Ph +44 (0)1795.473499
Fax +44 (0)871.272.8278

For more info, log on to our website:

www.shurco.com

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. No other use of this system is authorized, except as designed.**

RUST PREVENTION


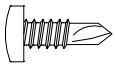

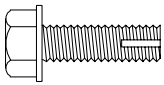
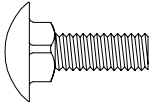
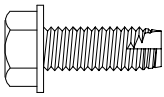
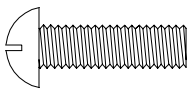
To prevent rust, paint all exposed metal, such as weld seams and/or metal exposed by grinding or cutting, with corrosion-resistant paint.




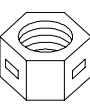
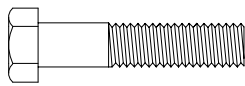
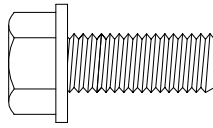
TABLE OF CONTENTS

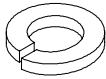
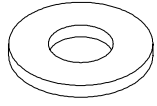
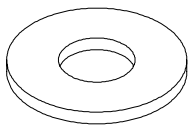
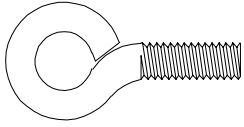
Box Preparation..... 1
 Hardware Identification..... 1
 End Caps - Face Mount Galvanized..... 2
 End Caps - Galvanized Steel 3
 Flat Cap Support Brace..... 4
 End Caps - Fabric..... 5-6
 Stretch Cord & Rope Anchors 7
 Bows - Standard..... 8
 Bows - X-Wide Galvanized Steel..... 9
 Bows - X-Wide Flat..... 10
 Ridge Straps - 1 Inch..... 11
 Ridge Straps - 2 Inch..... 12
 Ridge Straps - Metal Caps w/Hook 13
 Ridge Straps - Fabric Caps w/Hook 14
 Adjustable Offset Bracket - Latchplate/Tarp Stop..... 15-16
 Tarp Stops - Easy-Off 17
 Latchplates 18
 Tarp Inspection & Fixed Tube 19
 Ridgepoles..... 20
 Crank & Crank Retainers..... 21
 Roll Tube, Tarp & Crank Retainers 22
 Roll Tube & Tarp Installation..... 23
 Tarp Stops - Standard..... 24
 Returns - Stretch Cord..... 25
 Crank Operation 26
 Replacement Parts 27-31
 Maintenance & Operation..... 31
 Options & Upgrades 32

TOOLS REQUIRED

1. Welder
 2. #3 Phillips Insert Bit or #3 Phillips Screw Driver (use with 13/64" drill bit)
 3. #2 Phillips Screw Driver Bit
 4. Air or Electric Wrench w/9/16" Socket
 5. 9/16" Combination Wrench
 6. Electric Drill
 7. 3/16" Drill Bit
 8. 1/4" Drill Bit
 9. 5/16" Drill Bit (for 3/8" self-tapping screws)
 10. 3/8" Drill Bit (for 3/8" cap screws)
 11. 13/32" Drill Bit
 12. Tape Measure
 13. Pencil
 14. Clamps
 15. Band Saw or Hack Saw
 16. Grinder
 17. Hammer
- Optional**
 Hot Knife, Spray Paint, Caulk or Rubber Sealant

- A**  1704743 Self-Drilling Screw - #10 x 1/2"
- B**  1700398 Self-Drilling Screw - 1/4" x 3/4"
- C**  1704768 Self-Drilling Screw - 1/4" x 3/4"
- D**  1701059 Self-Tapping Screw - 5/16" x 1"
- E**  1702522 Carriage Bolt - 5/16" x 1"
- F**  1700400 Self-Tapping Screw - 3/8" x 1"
- G**  1703964 Truss Hd. Machine Screw - 3/8" x 1 1/4"

- H**  1700411 Hex Nut - 5/16"
- J**  1700419 Nylon Lock Nut - 5/16"
- K**  1700407 Hex Nut - 3/8"
- L**  1700418 Centerlock Nut - 3/8"
- M**  1700369 Cap Screw - 3/8" x 1 3/4"
- N**  1702996 Cap Screw - 1/2" x 1 1/4"

- P**  1700434 Lock Washer - 3/8"
- Q**  1701176 Flat Washer - 3/8"
- R**  1703373 Flat Washer - 1/2"
- S**  1700717 Eyebolt - 5/16"

NOTE: Throughout this manual, where 3/8" x 1" self-tapping screws **D** are used with lock washers **P** and nuts **H**, use washers and nuts, if possible, and drill 13/32" holes. Self-tapping screws used without washers and nuts require a minimum wall thickness of 3/16". Drill 5/16" holes.

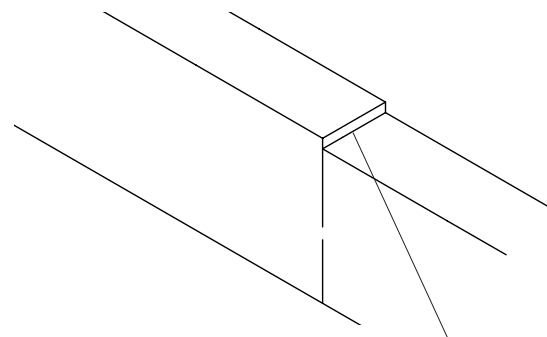
TARP INSPECTION

Tarp length: Determine tarp length with slight tension applied. Compare actual tarp length with length stated on sheet attached to tarp. If tarp length does not match length on sheet, do not proceed. Call your local dealer, or call Shur-Co® Customer Service at 1-866-748-7435.

BOX PREPARATION

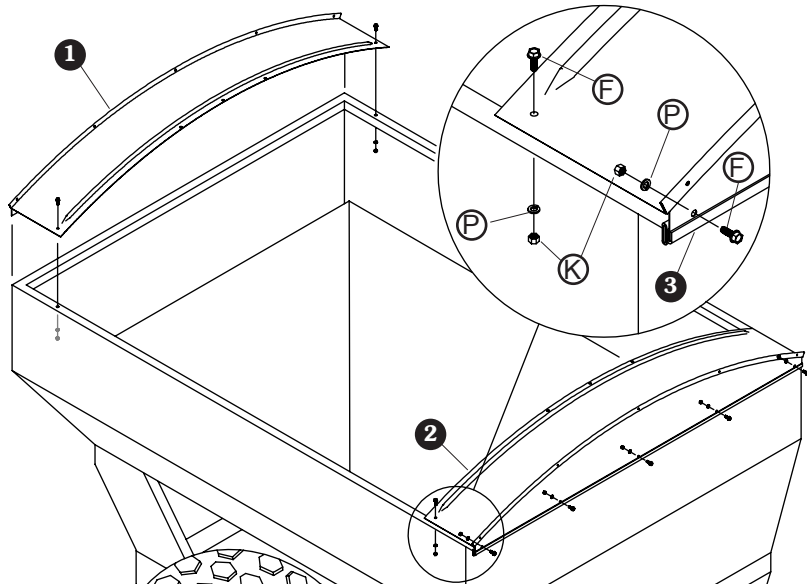
Prepare your box before installing your Shur-Lok® tarping system. Remove or grind any sharp edges smooth to prevent tarp damage.

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



REMOVE SHARP EDGES ON TOP RAIL - PAINT ALL EXPOSED METAL

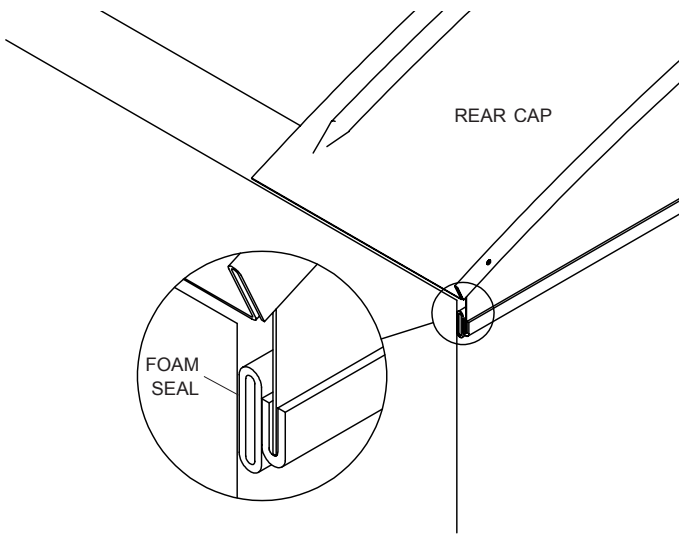
⚠ CAUTION
Box extensions (tip tops), if used, must be secured to truck box. System could blow off if box extensions are not secured to box.



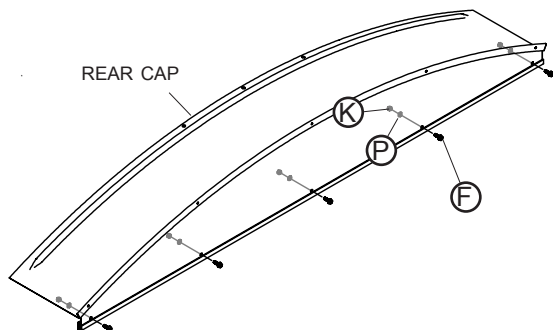
Item	Part #	Description
1.	*	Galvanized Face Mount Front Cap
2.	*	Galvanized Face Mount Back Cap
3.	1700152**	Trim Seal (per foot)
F.	1700400	Self-Tapping Screw - 3/8" x 1"
K.	1700407	Hex Nut - 3/8"
P.	1700434	Lock Washer - 3/8"

* Specify size
** Available for Select OEM Kits

STEP 1: Trim seal. Apply trim seal to caps, placing foam seal on inside of caps. Tap into place. (Available for select OEM kits.)

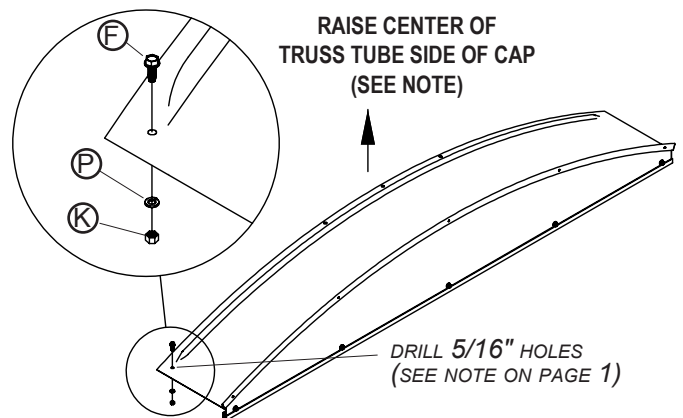


STEP 2: Evenly space five screws across face of cap. Mark and drill 5/16" holes and fasten with screws (F). Use lock washers (P) and nuts (K) where possible.

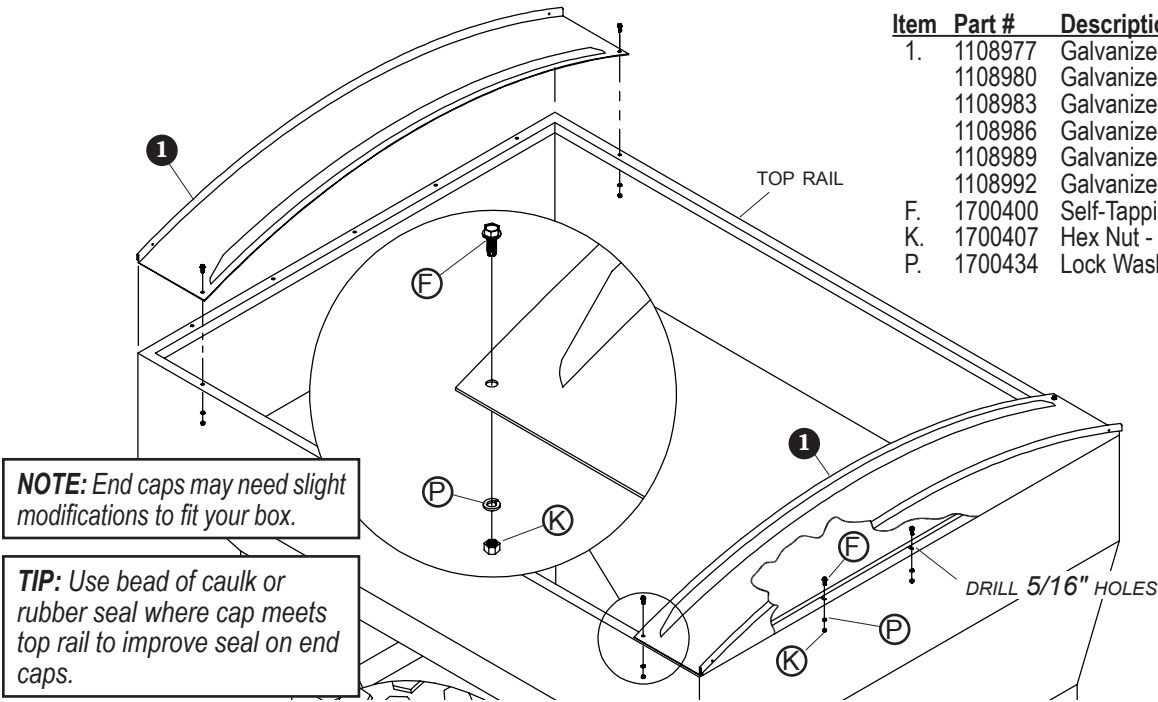


NOTE: For optimal water run-off and tarp support, make sure end caps are level before fastening sides of caps to box. While fastening sides of caps to box, raise center of truss tube side of cap to be level with or slightly higher than outside edge.

STEP 3: Drill 5/16" hole as close as possible to truss tube on drive side of cap. Fasten with screw (F). Use washer (P) and nut (K) where possible.



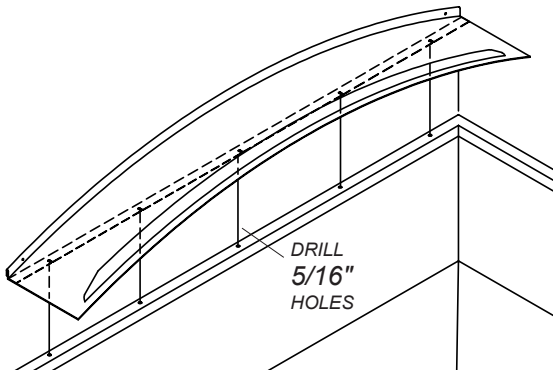
Item	Part #	Description
1.	1108977	Galvanized Low Rise Cap - 93"
	1108980	Galvanized Low Rise Cap - 95"
	1108983	Galvanized Low Rise Cap - 100"
	1108986	Galvanized High Rise Cap - 93"
	1108989	Galvanized High Rise Cap - 95"
	1108992	Galvanized High Rise Cap - 100"
F.	1700400	Self-Tapping Screw - 3/8" x 1"
K.	1700407	Hex Nut - 3/8"
P.	1700434	Lock Washer - 3/8"



NOTE: End caps may need slight modifications to fit your box.

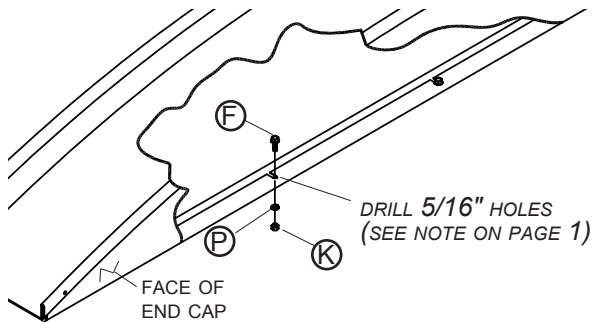
TIP: Use bead of caulk or rubber seal where cap meets top rail to improve seal on end caps.

STEP 1: Center end caps on box. Mark hole locations on top rail using slots in cap as a template.



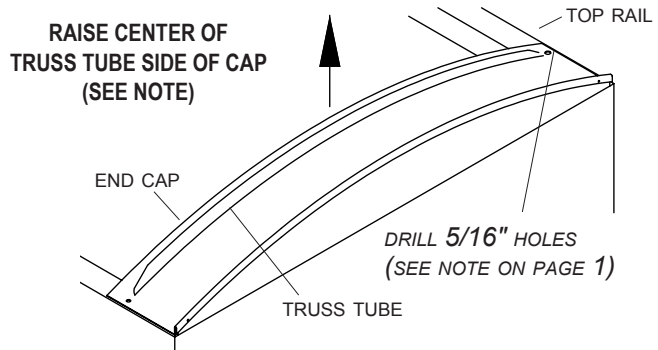
STEP 2: Drill 5/16" holes at marked locations on top rail. Fasten end cap to rail with screws **F**. Use washers **P** and nuts **K** where possible.

TIP: Thread 3/8" x 1" self-tapping screws into top rail, back screws partially out, slide cap into place and tighten screws.

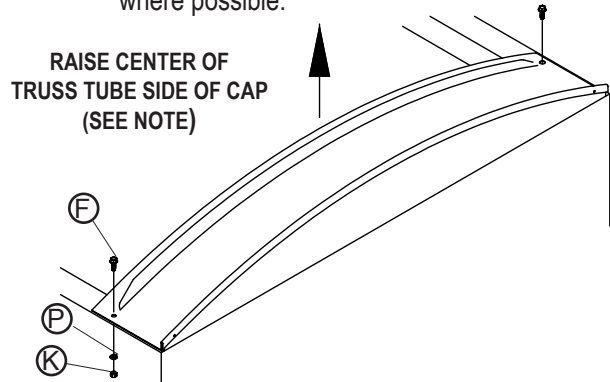


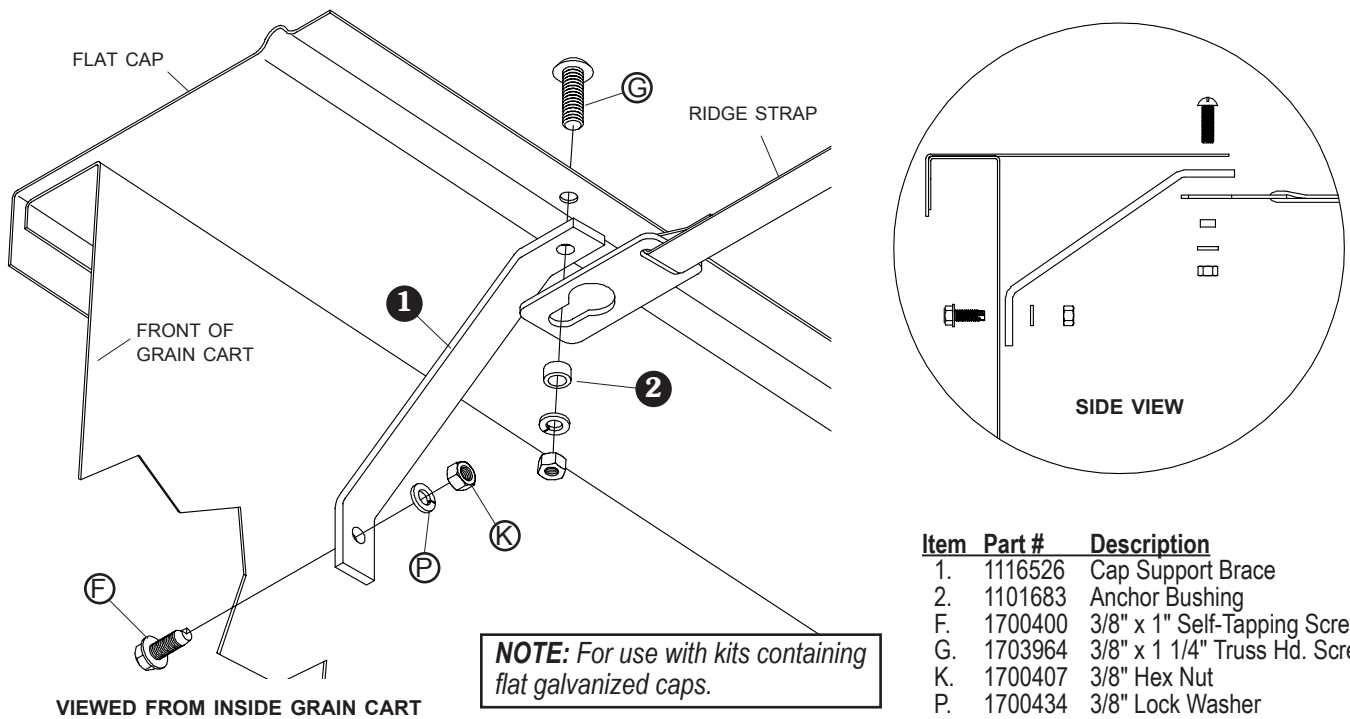
STEP 3: Drill two 5/16" holes, as close as possible to truss tube, through end cap and top rail.

NOTE: For optimal water run-off and tarp support, make sure end caps are level before fastening sides of caps to box. While fastening sides of caps to box, raise center of truss tube side of cap to be level with or slightly higher than outside edge.



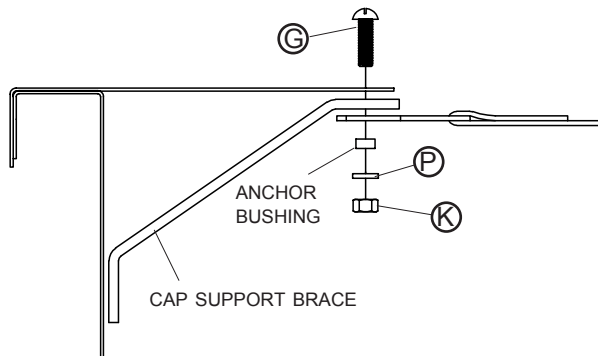
STEP 4: Fasten with screws **F**. Use washers **P** and nuts **K** where possible.



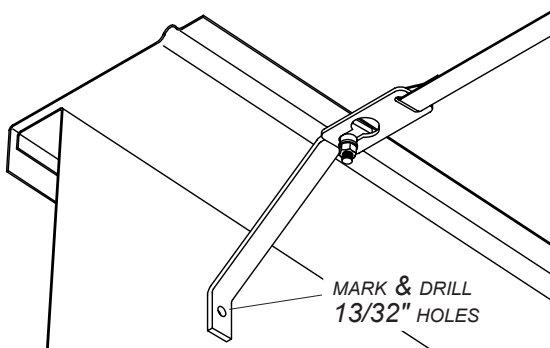


Item	Part #	Description
1.	1116526	Cap Support Brace
2.	1101683	Anchor Bushing
F.	1700400	3/8" x 1" Self-Tapping Screw
G.	1703964	3/8" x 1 1/4" Truss Hd. Screw
K.	1700407	3/8" Hex Nut
P.	1700434	3/8" Lock Washer

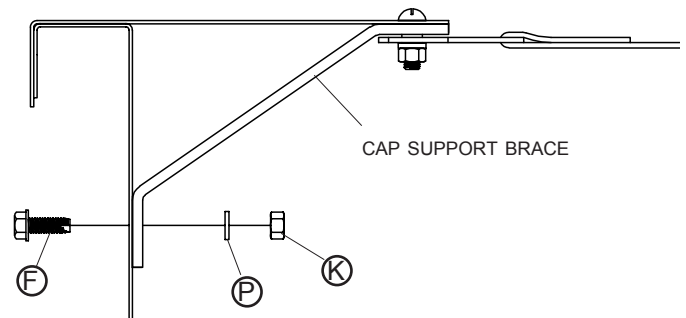
STEP 1: Fasten cap support braces into pre-drilled holes in flat cap as shown, using screws **G**, bushings, washers **P** and nuts **K**. Finger tighten.



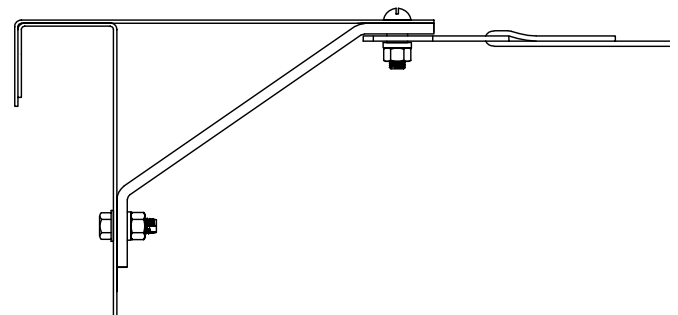
STEP 2: Mark and drill 13/32" holes in grain cart, using cap support brace as a guide.

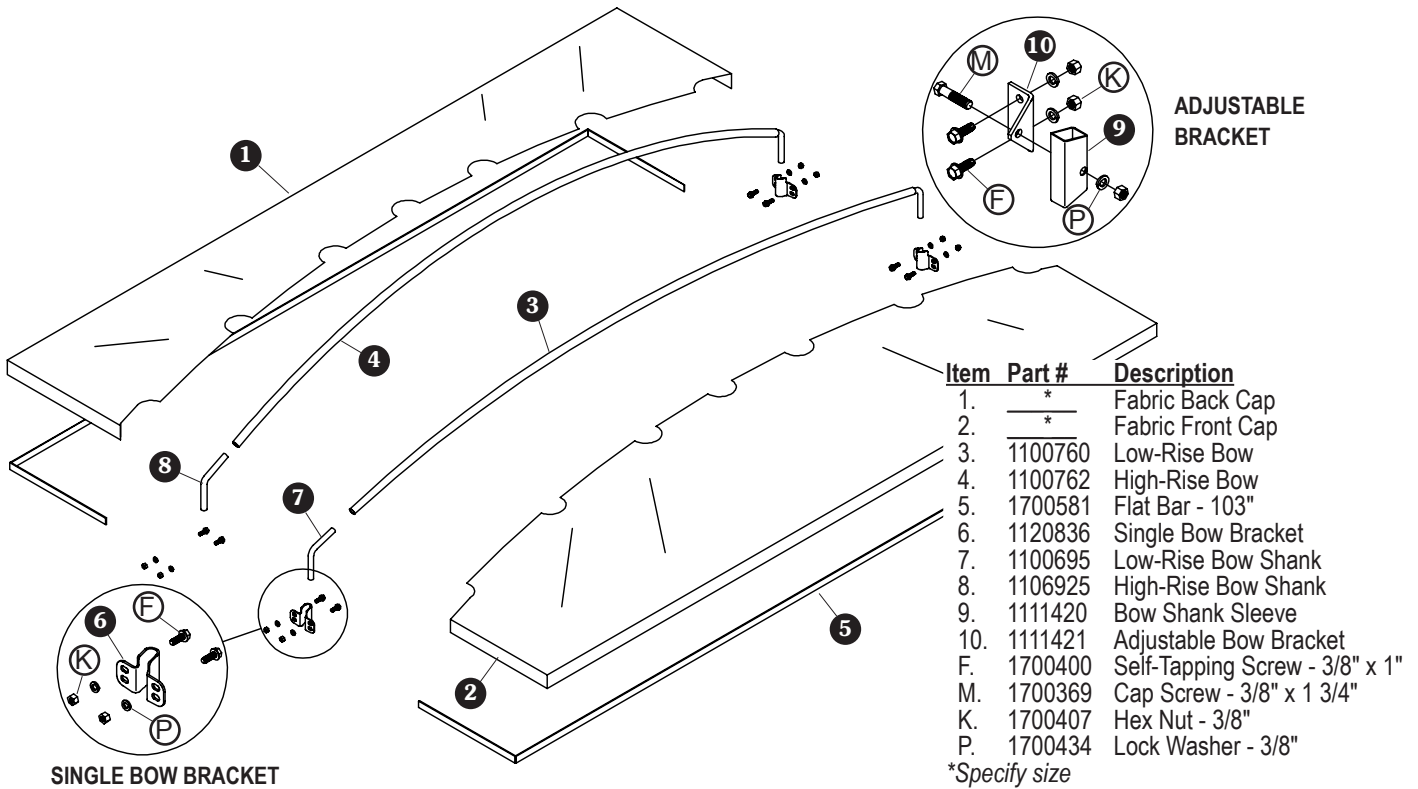


STEP 3: Fasten cap support braces to grain cart using screws **F**, washers **P** and nuts **K**.



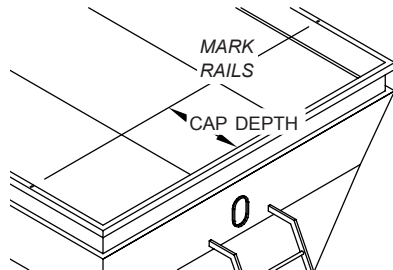
STEP 4: Secure all fasteners.



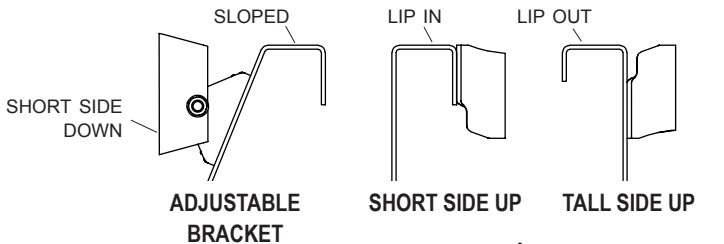


STEP 1: Measuring from front of box, mark cap depth on both sides of top rail per cap depth listed on cap tag.

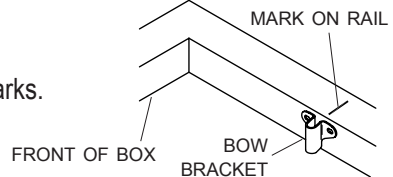
NOTE: If fabric cap depth does not match listed on cap tag, do not proceed. Contact Shur-Co® for further instructions.



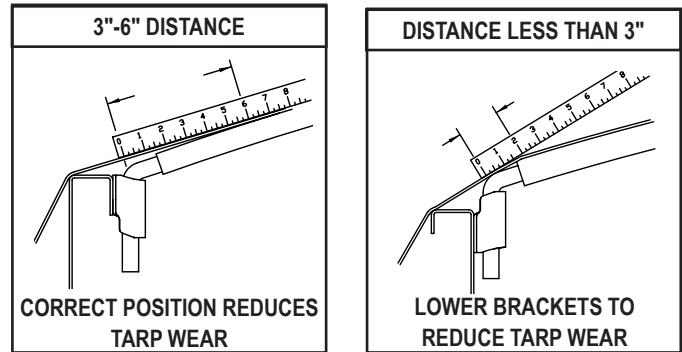
STEP 2: Position bow brackets according to step 4 with the short side up for lip-in boxes or the tall side up for lip-out boxes. If using adjustable bow bracket for grain carts with sloped side rails, position short side down.



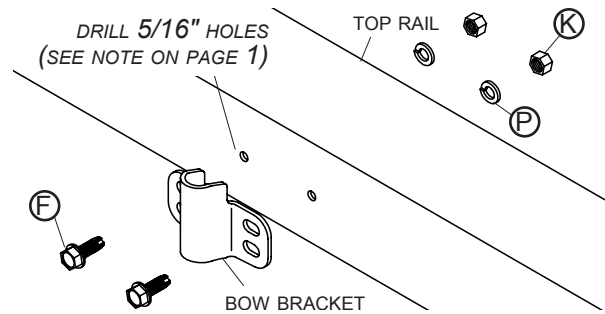
STEP 3: Align center of bracket with marks.



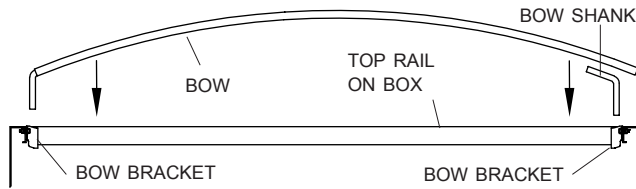
STEP 4: Adjust bow brackets vertically to create a distance of 3" to 6" between bend in bow shank and point where tarp will contact bow. Clamp brackets to rails.



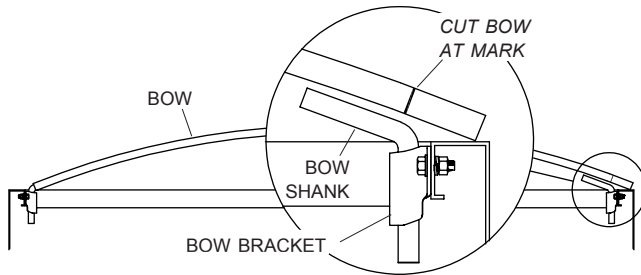
STEP 5: Mark and drill 5/16" holes. Mount brackets with screws (F), washers (P) and nuts (K).



STEP 6: Place bow into bow bracket. Place loose bow shank in opposite bow bracket.

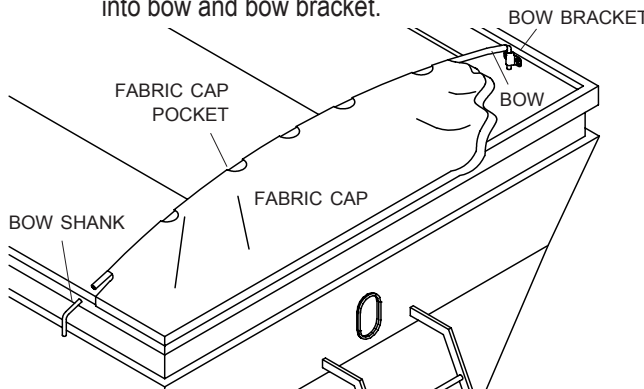


STEP 7: Align bow with bow shank. Mark bow at point where bend starts on shank. Remove bow and cut at mark.



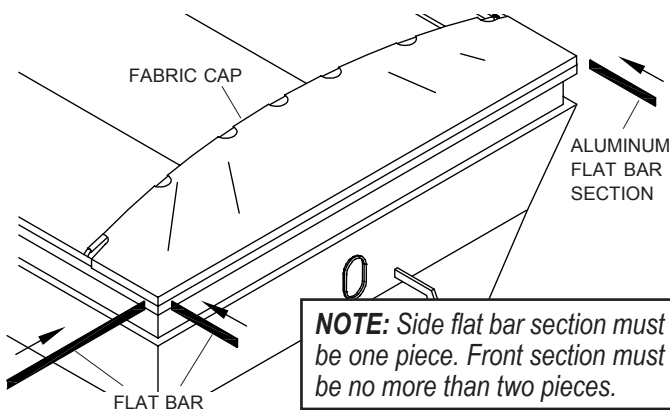
NOTE: Cut bow to exact length. If bow is too short and not welded to shank, pressure from tarp will flatten bow arch.

STEP 8: Insert bow into fabric cap pocket. Replace bow shank into bow and bow bracket.



NOTE: Use correct fabric cap for box. Inconsistencies in boxes may cause cap to fit less than perfectly.

STEP 9: Cut flat bar sections 1/2" shorter than front and side pocket lengths. Insert sections into fabric cap pockets.



NOTE: Side flat bar section must be one piece. Front section must be no more than two pieces.

STEP 10: Install rear fabric cap in same manner as front cap.

SHOCK CORD OPTION

NOTE: Latchplate and tarp must be installed before installing shock cords and rope anchors. See page 7 to install shock cords and rope anchors.

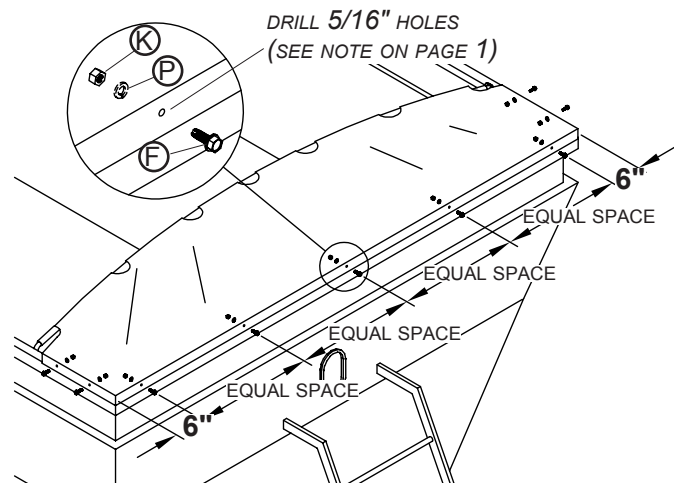
BOLT-DOWN OPTION

NOTE: Fabric caps may be bolted to box after aluminum flat bar sections have been installed. It is not necessary to install tarp and latchplate first.

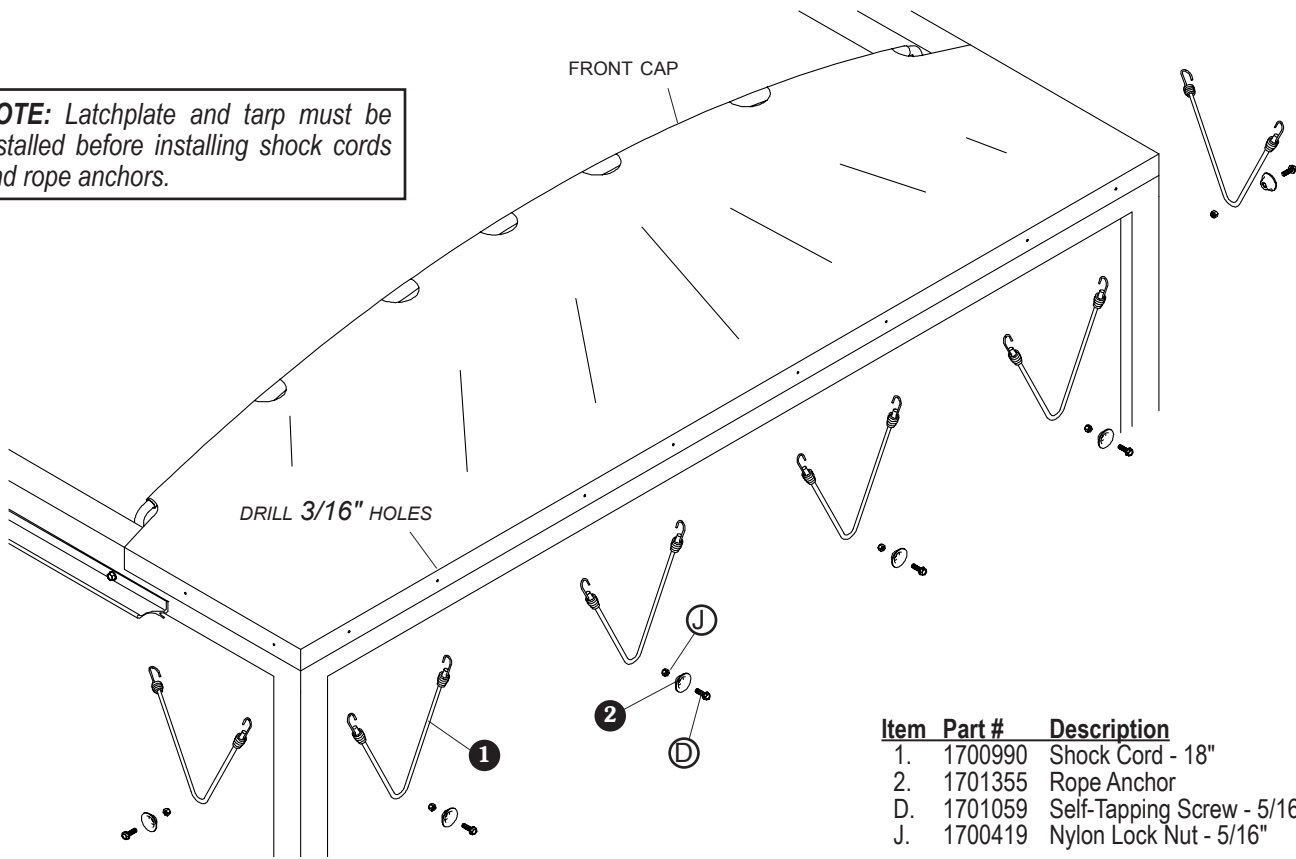
STEP 11: Square up fabric caps on grain cart.

STEP 12: Measure and mark a minimum of 5 hole locations across front of fabric cap. Measure and mark hole locations 6" from each side of fabric cap, equally spacing remaining holes. Mark 2 hole locations on each side of fabric cap.

STEP 13: Drill 5/16" holes through fabric cap, aluminum flat bar and box. Fasten cap to box with screws (P), washers (F) and nuts (K).

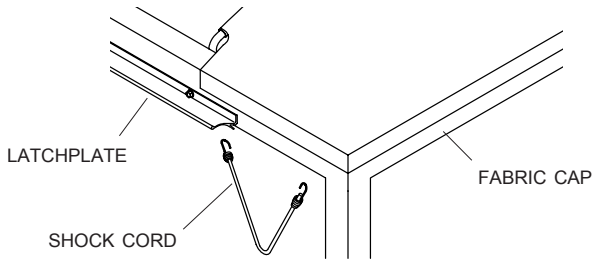


NOTE: Latchplate and tarp must be installed before installing shock cords and rope anchors.

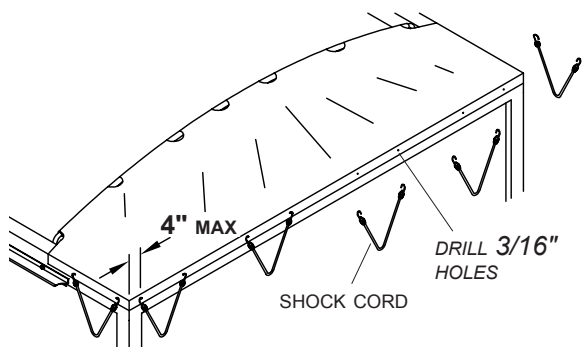


Item	Part #	Description
1.	1700990	Shock Cord - 18"
2.	1701355	Rope Anchor
D.	1701059	Self-Tapping Screw - 5/16" x 1"
J.	1700419	Nylon Lock Nut - 5/16"

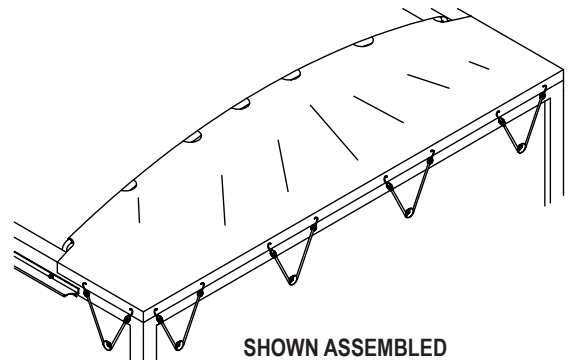
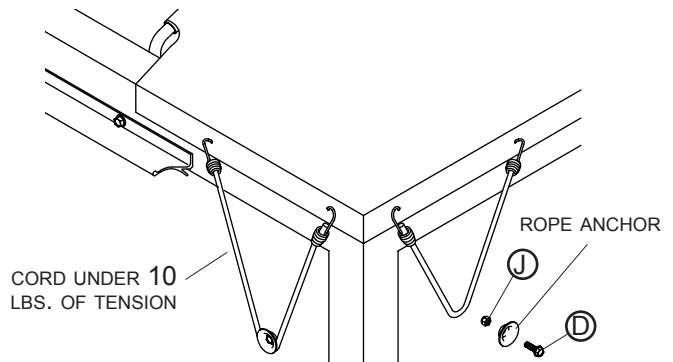
STEP 1: Locate one shock cord on each side of cap, as close as possible to center of cap without touching latchplate.

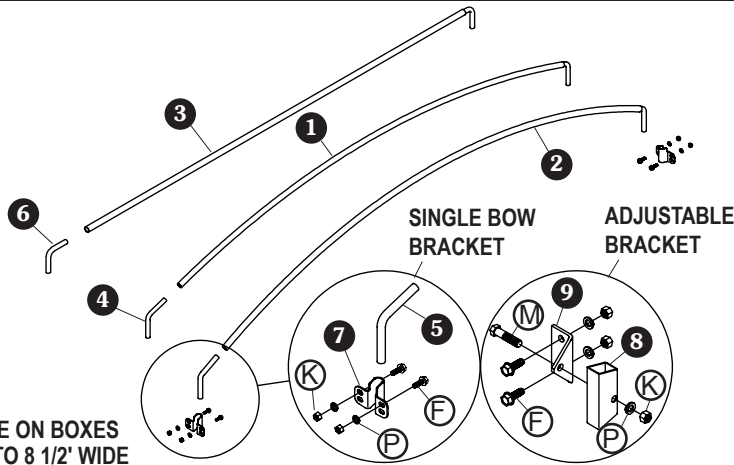


STEP 2: Equally space remaining shock cords across face of fabric cap. Drill 3/16" holes through aluminum flat bar and hook shock cords into holes.



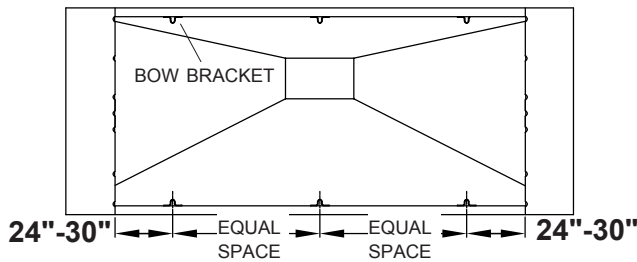
STEP 3: Locate rope anchors so shock cords will receive at least 10 pounds of force. Drill 1/4" holes and fasten rope anchors with screws D and nuts J.



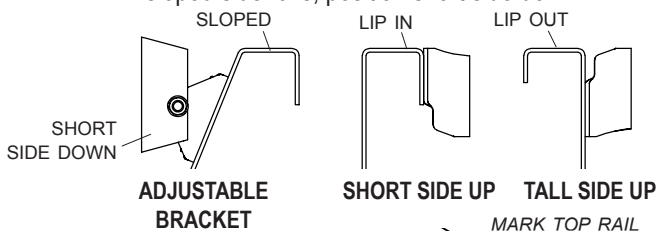


Item	Part #	Description
1.	1100760	Standard Low Rise Bow
2.	1100762	Standard High Rise Bow
3.	1109149	Standard Flat Bow
4.	1100695	Standard Low Rise Bow Shank
5.	1106925	Standard High Rise Bow Shank
6.	1109150	Standard Flat Bow Shank
7.	1120836	Single Bow Bracket
8.	1111420	Bow Shank Sleeve
9.	1111421	Adjustable Bow Bracket
F.	1700400	Self-Tapping Screw - 3/8" x 1"
M.	1700369	Cap Screw - 3/8" x 1 3/4"
K.	1700407	Hex Nut - 3/8"
P.	1700434	Lock Washer - 3/8"

STEP 1: Mark bow bracket locations on top rails as shown.



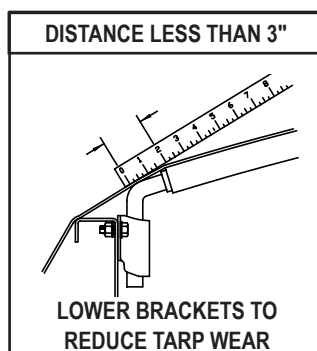
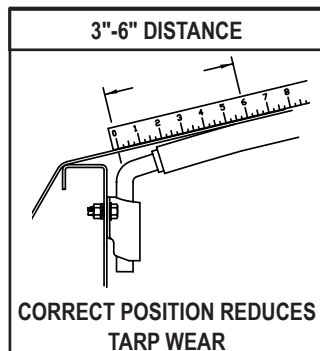
STEP 2: Position bow brackets according to step 4 with short side up for lip-in boxes or tall side up for lip-out boxes. If using adjustable bow bracket for grain carts with sloped side rails, position short side down.



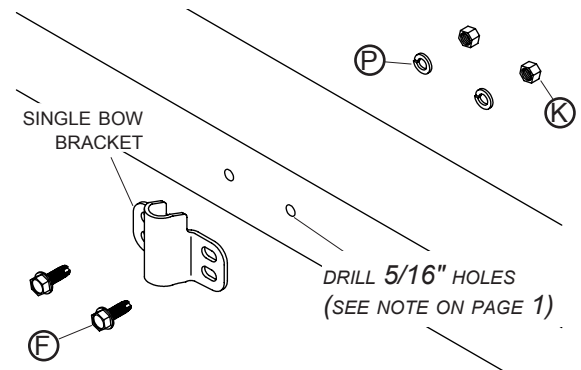
STEP 3: Align center of brackets with mark.



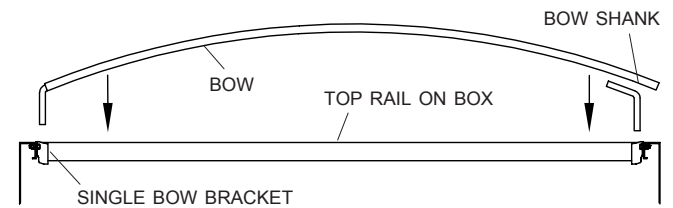
STEP 4: Adjust bow brackets vertically to create distance of 3" to 6" between bend in bow shank and point where tarp will contact bow. Clamp brackets to rails.



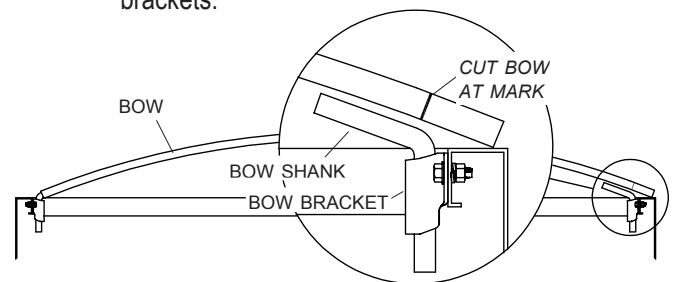
STEP 5: Mark and drill 5/16" holes, then mount brackets with screws **F**, washers **P** and nuts **K**.



STEP 6: Place bow into bow bracket. Place loose bow shank into opposite bow bracket.

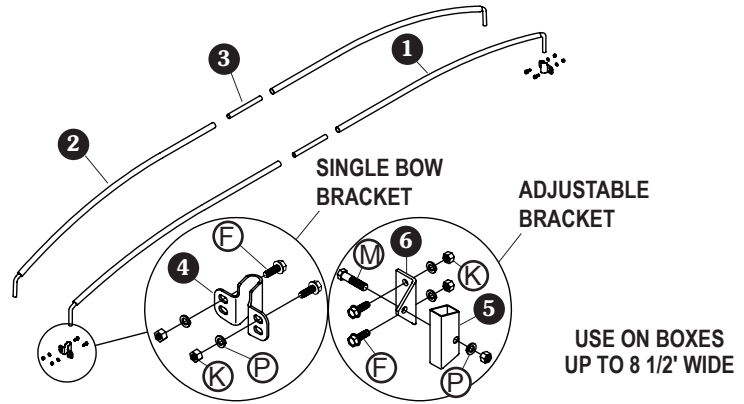


STEP 7: Align bow with bow shank. Mark and cut bow at point where bend starts on shank. Grind edges smooth and weld shank to bow. Install finished bows into bow brackets.

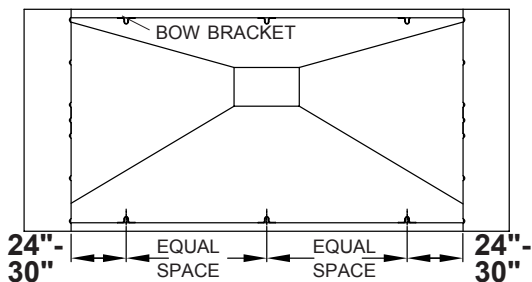


NOTE: Shanks must be welded to bows.

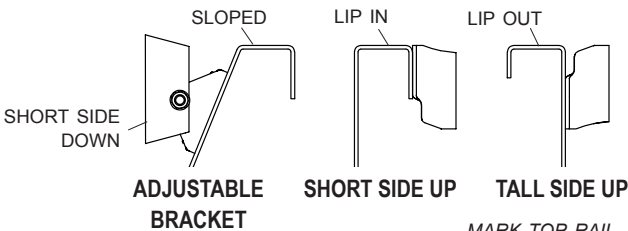
Item	Part #	Description
1.	1106950	X-Wide Low Rise Bow
2.	1106926	X-Wide High Rise Bow
3.	1100685	X-Wide Bow Connector Tube
4.	1120836	Single Bow Bracket
5.	1111420	Bow Shank Sleeve
6.	1111421	Adjustable Bow Bracket
F.	1700400	Self-Tapping Screw - 3/8" x 1"
M.	1700369	Cap Screw - 3/8" x 1 3/4"
K.	1700407	Hex Nut - 3/8"
P.	1700434	Lock Washer - 3/8"



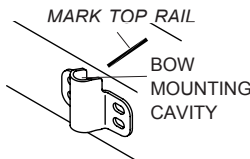
STEP 1: Mark bow bracket locations on top rails as shown.



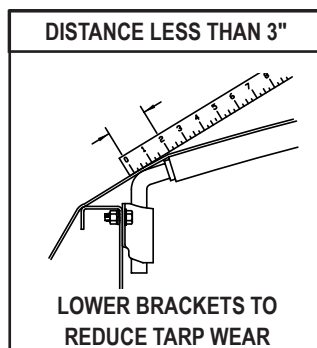
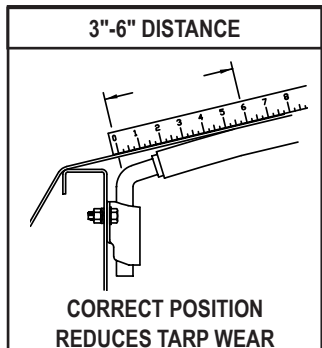
STEP 2: Position bow brackets according to step 4 with short side up for lip-in boxes or tall side up for lip-out boxes. If using adjustable bow bracket for grain carts with sloped side rails, position short side down.



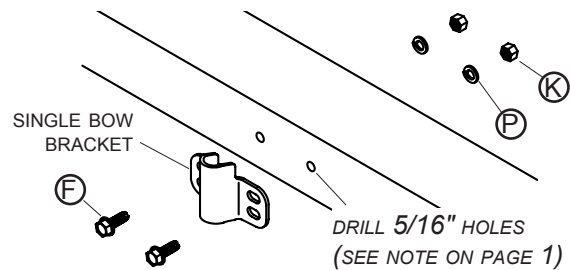
STEP 3: Align center of brackets with mark.



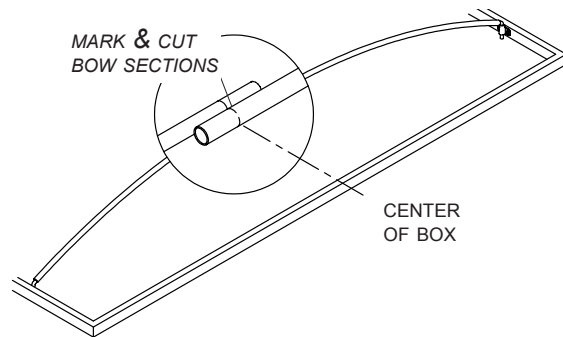
STEP 4: Insert bow weldments into bow brackets. Adjust bow brackets vertically to create distance of 3" to 6" between bend in bow shank and point where tarp will contact bow. Clamp brackets to rails.



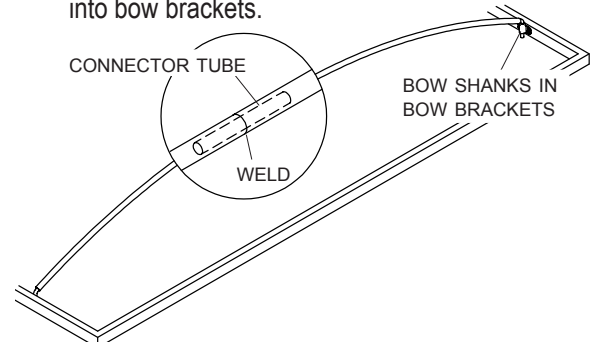
STEP 5: Mark and drill 5/16" holes. Mount brackets with screws F, washers P and nuts K.

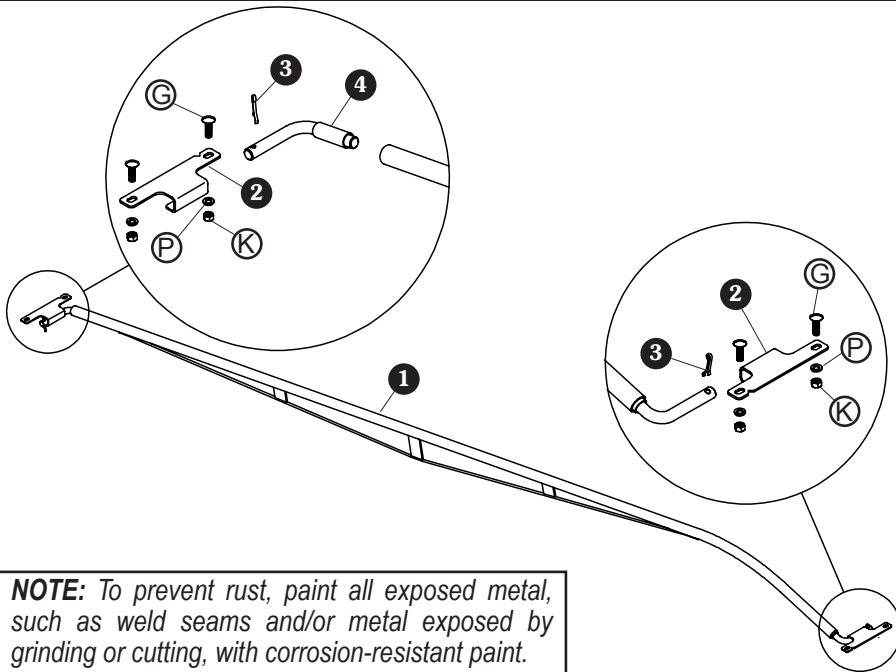


STEP 6: Place bow shanks into bow brackets on opposite sides of box. Mark point where bows intersect at center of box. Remove bow sections and cut sections at marked points.



STEP 7: Insert connector tube into bow sections. Center connector tube with bow sections. Push bow upward while welding. Grind smooth. Insert bow shanks into bow brackets. Weld and grind smooth. Install bows into bow brackets.

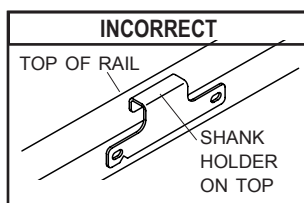
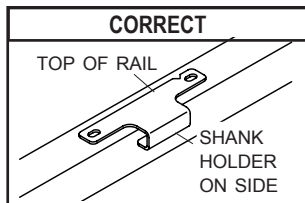
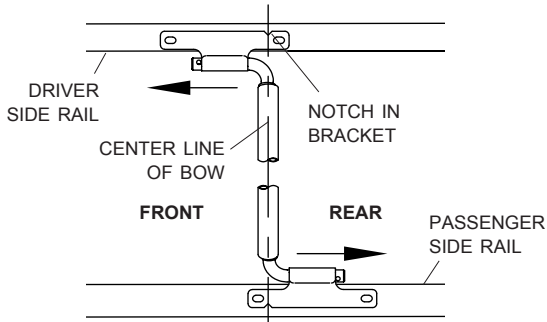




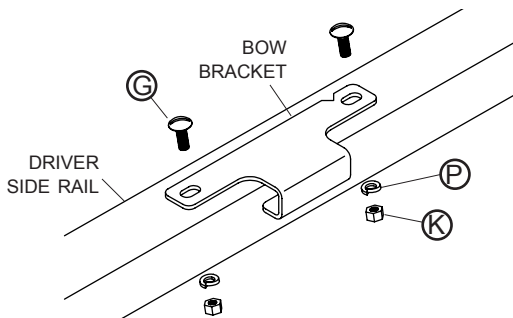
Item	Part #	Description
1.	1120303	X-Wide Flat Bow - 113" to 122"
	1120304	X-Wide Flat Bow - 123" to 132"
	1120305	X-Wide Flat Bow - 133" to 142"
	1120306	X-Wide Flat Bow - 143" to 152"
	1120307	X-Wide Flat Bow - 153" to 162"
2.	1117665	Bow Bracket - 90°
3.	1701577	Cotter Pin
4.	1117683	Bow Shank 90°
G.	1703964	Truss Hd. Machine Screw - 3/8" x 1 1/4"
K.	1700407	Hex Nut - 3/8"
P.	1700434	Lock Washer - 3/8"

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

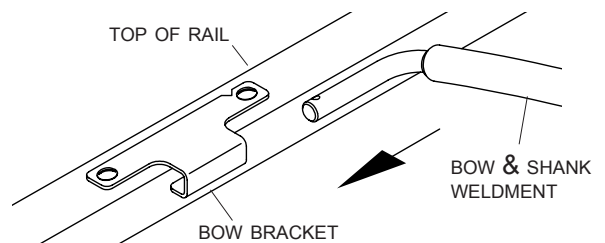
STEP 1: Mark bow bracket locations on top rails as shown in step 1 on page 8. Align center line of bows with notch in brackets as shown below.



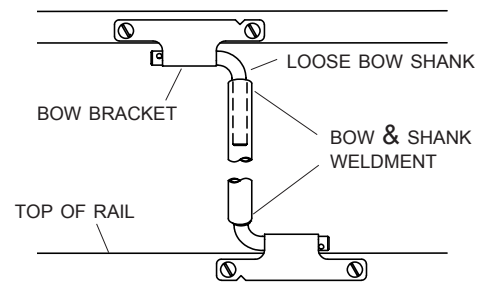
STEP 2: Mark and drill 13/32" holes. Fasten bow brackets with screws G, lock washers P and nuts K.



STEP 3: Insert bow and shank weldment into bow bracket.

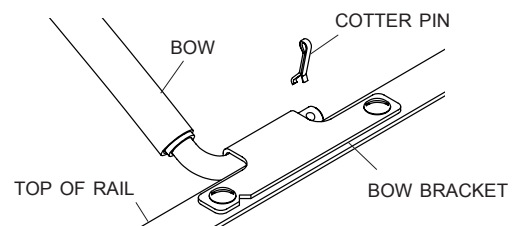


STEP 4: Insert loose bow shank into opposite bow bracket. Align bow with bow shank.



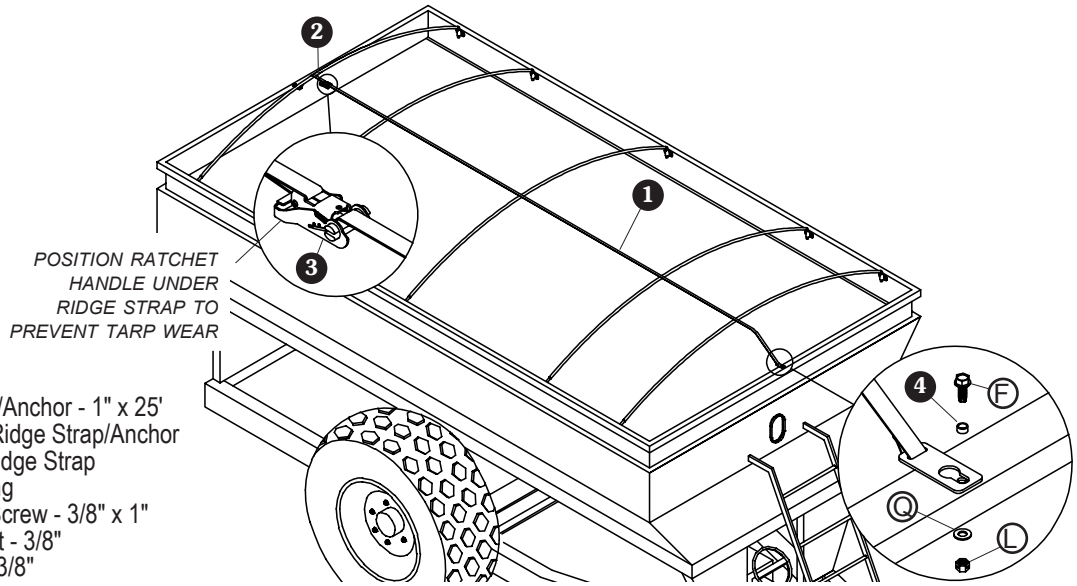
RECOMMENDED: Weld shanks to bows.

STEP 5: Install bows into bow brackets and secure with cotter pins.



STEP 6: Repeat process for all bows.

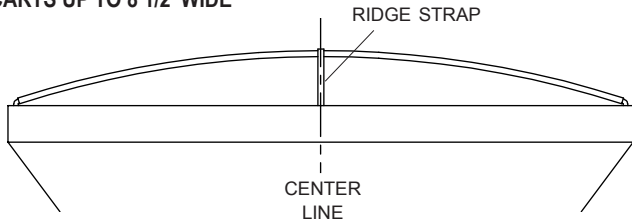
NOTE: For galvanized steel or aluminum cap applications, fasten ridge strap(s) to end caps. For fabric cap applications, fasten ridge strap(s) to top rail.



Item	Part #	Description
1.	1101680	Ridge Strap w/Anchor - 1" x 25'
2.	1101678	Ratchet w/1" Ridge Strap/Anchor
3.	1700836	Ratchet - 1" Ridge Strap
4.	1101683	Anchor Bushing
F.	1700400	Self-Tapping Screw - 3/8" x 1"
L.	1700418	Centerlock Nut - 3/8"
Q.	1701176	Flat Washer - 3/8"

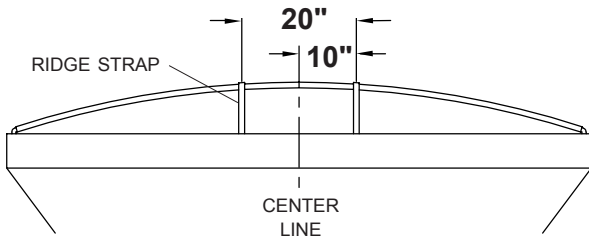
STEP 1: Mark hole locations at center of front and rear caps (mark top rails for fabric caps).

CARTS UP TO 8 1/2' WIDE



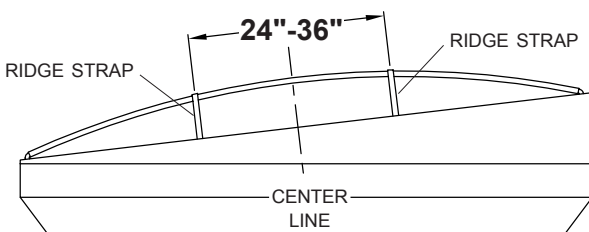
CARTS OVER 8 1/2' WIDE & SLOPED CARTS

Mark hole locations 20" apart on front and rear caps (mark top rails for fabric caps).



Mark hole locations 24" to 36" apart on front and rear caps (mark top rails for fabric caps).

TIP: Straps can be placed farther apart on carts with steeper slopes.



STEP 2: Drill holes and fasten ridge strap anchor bushings with screws (F), washers (Q) and nuts (L).

NOTE: Use washers and nuts where needed and drill 13/32" holes. If using self-tapping screws only, drill 5/16" holes.

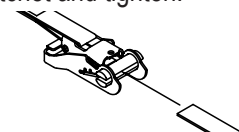
GALVANIZED CAP	FABRIC CAP
<p>ANCHOR BUSHING UNDER CAP</p>	<p>ANCHOR BUSHING OVER TOP RAIL</p>

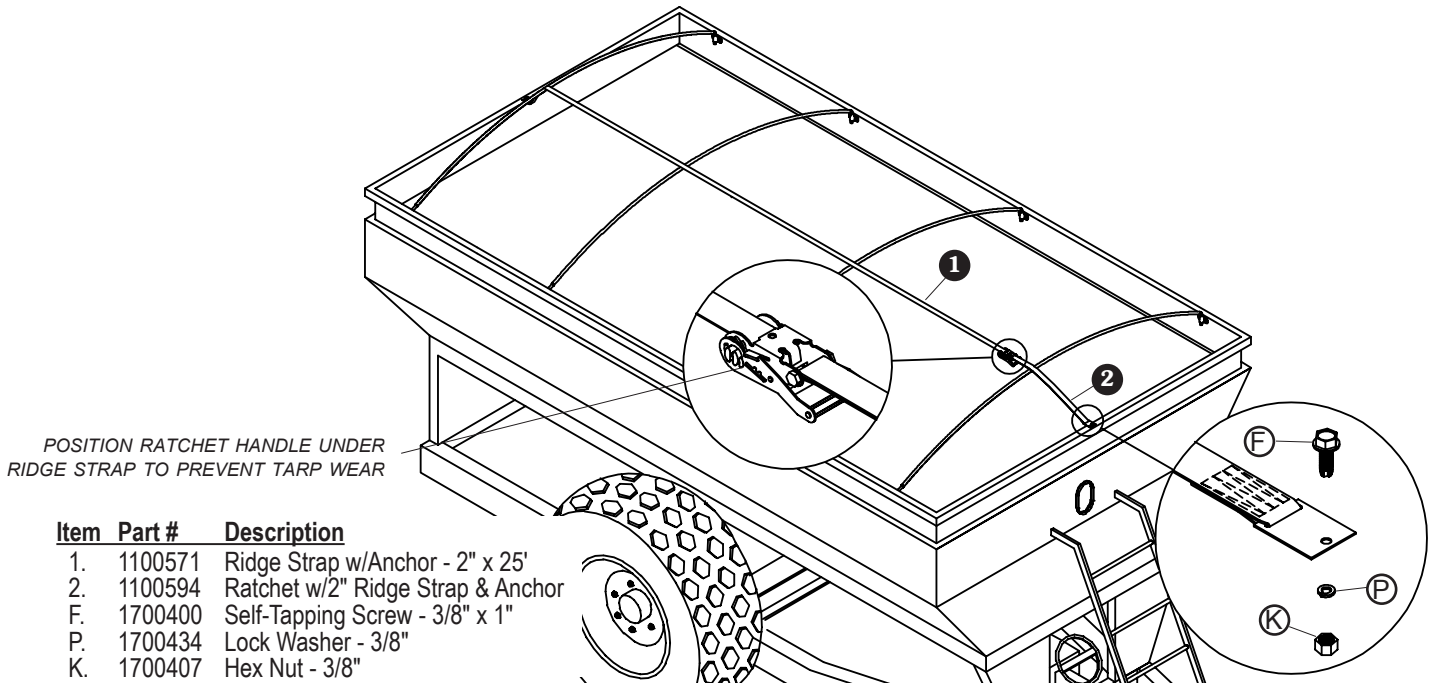
STEP 3: Install ridge strap(s) over bows. Hook ridge strap anchors onto anchor bushings on front and rear end caps (top rails).

GALVANIZED CAP	FABRIC CAP
<p>PREVENTS TARP WEAR</p> <p>RATCHET UNDER STRAP</p>	<p>CAUSES TARP WEAR</p> <p>RATCHET OVER STRAP</p>

STEP 4: Thread strap through ratchet and tighten.

NOTE: Keep ridge straps tight for adequate tarp support. Check tension regularly.



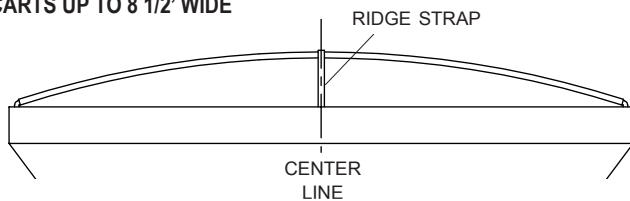


POSITION RATCHET HANDLE UNDER RIDGE STRAP TO PREVENT TARP WEAR

Item	Part #	Description
1.	1100571	Ridge Strap w/Anchor - 2" x 25"
2.	1100594	Ratchet w/2" Ridge Strap & Anchor
F.	1700400	Self-Tapping Screw - 3/8" x 1"
P.	1700434	Lock Washer - 3/8"
K.	1700407	Hex Nut - 3/8"

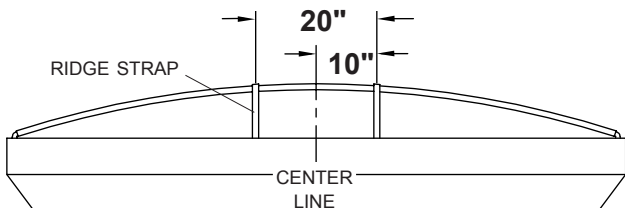
STEP 1: Mark hole locations at center of front and rear caps (mark top rails for fabric caps).

CARTS UP TO 8 1/2' WIDE



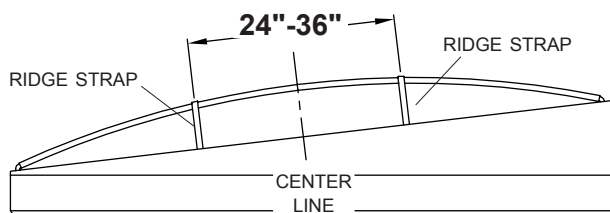
CARTS OVER 8 1/2' WIDE & SLOPED CARTS

Mark hole locations 20" apart on front and rear caps (mark top rails for fabric caps).



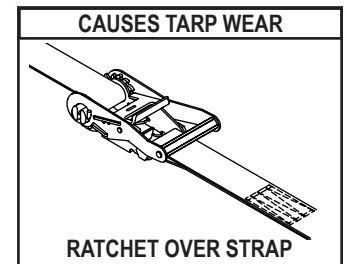
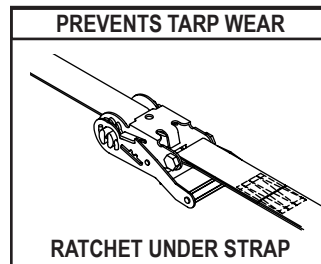
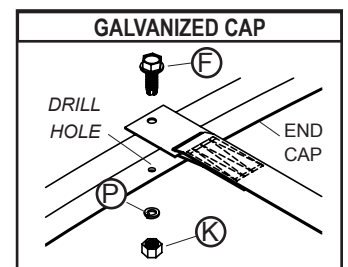
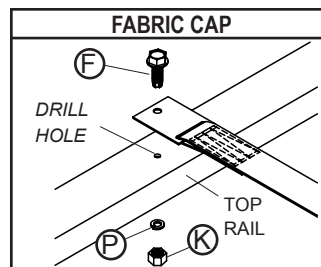
Mark hole locations 24" to 36" apart on front and rear caps (mark top rails for fabric caps).

TIP: Straps can be placed farther apart on carts with steeper slopes.



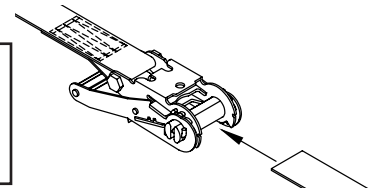
STEP 2: Drill holes and fasten ridge strap anchors with screws (F), washers (P) and nuts (K).

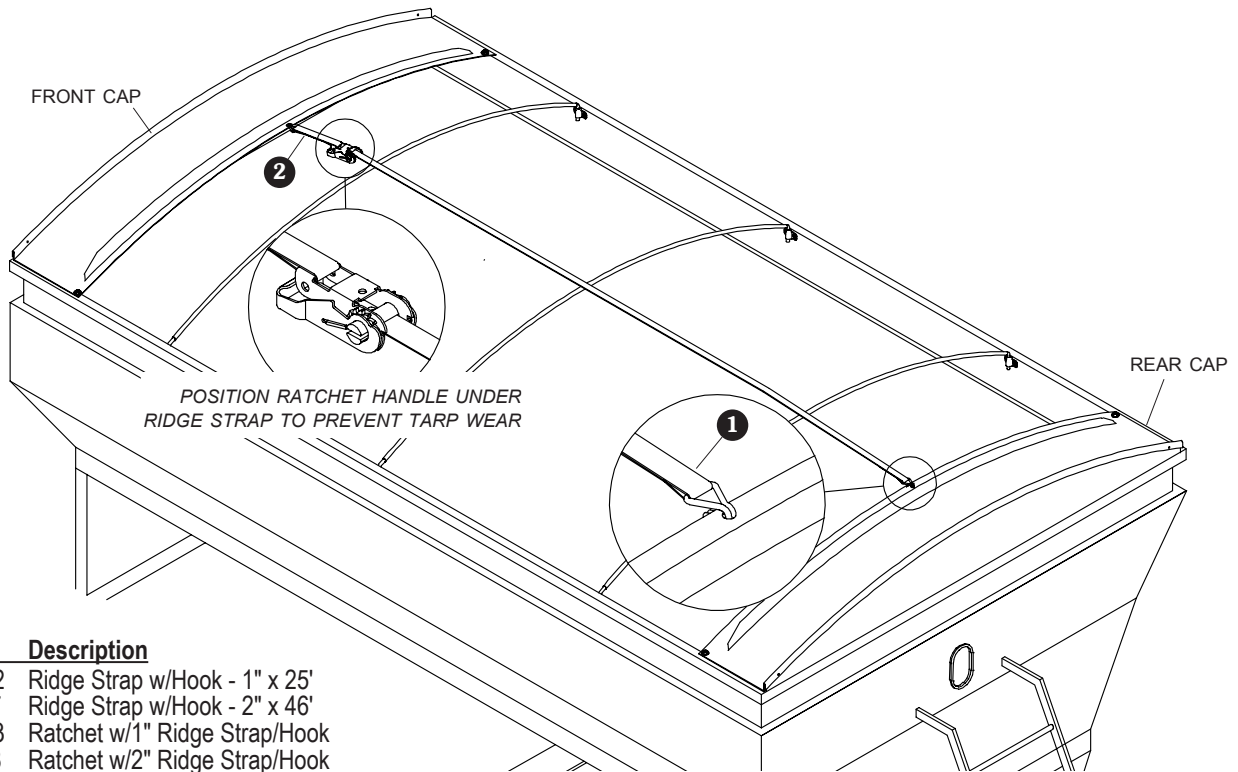
NOTE: Use washers and nuts where needed and drill 13/32" holes. If using self-tapping screws only, drill 5/16" holes.



STEP 3: Thread strap through ratchet and tighten.

NOTE: Keep ridge straps tight for adequate tarp support. Check tension regularly.

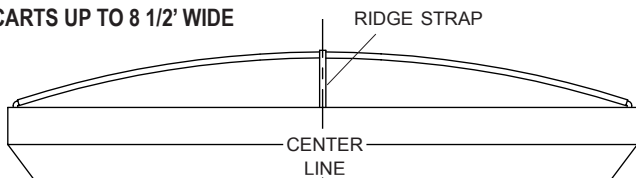




Item	Part #	Description
1.	1105222	Ridge Strap w/Hook - 1" x 25'
	1111817	Ridge Strap w/Hook - 2" x 46'
2.	1106153	Ratchet w/1" Ridge Strap/Hook
	1111818	Ratchet w/2" Ridge Strap/Hook

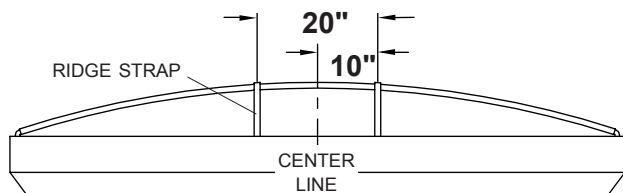
STEP 1: Mark hole locations at center of front and rear caps.

CARTS UP TO 8 1/2' WIDE



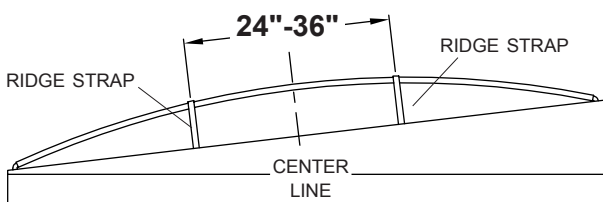
CARTS OVER 8 1/2' WIDE & SLOPED CARTS

Mark hole locations 20" apart on front and rear caps.

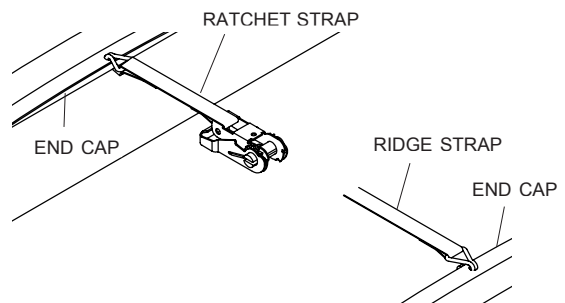


Mark hole locations 24" to 36" apart on front and rear caps.

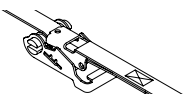
TIP: Straps can be placed farther apart on carts with steeper slopes.



STEP 2: Drill 7/16" holes at marked locations. Hook ridge strap and ratchet strap into holes on end caps. Position ratchet under strap to prevent tarp wear.

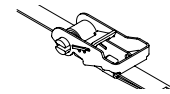


PREVENTS TARP WEAR



RATCHET UNDER STRAP

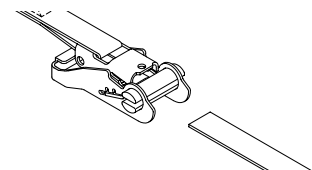
CAUSES TARP WEAR

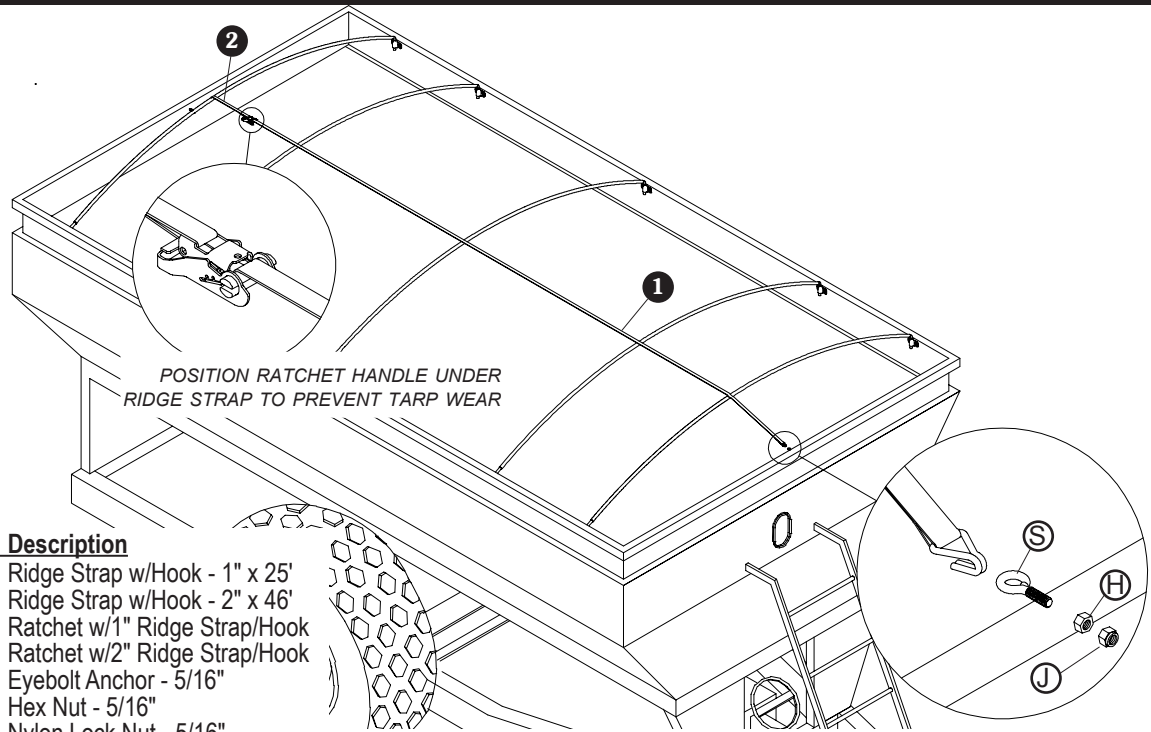


RATCHET OVER STRAP

STEP 3: Thread strap through ratchet and tighten.

NOTE: Keep ridge straps tight for adequate tarp support. Check tension regularly.

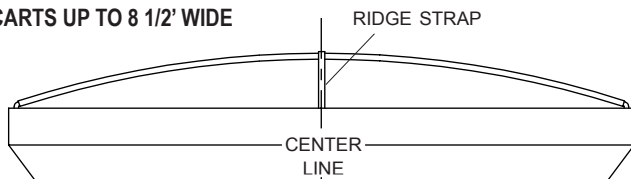




Item	Part #	Description
1.	1105222	Ridge Strap w/Hook - 1" x 25'
	1111817	Ridge Strap w/Hook - 2" x 46'
2.	1106153	Ratchet w/1" Ridge Strap/Hook
	1111818	Ratchet w/2" Ridge Strap/Hook
S.	1700717	Eyebolt Anchor - 5/16"
H.	1700411	Hex Nut - 5/16"
J.	1700419	Nylon Lock Nut - 5/16"

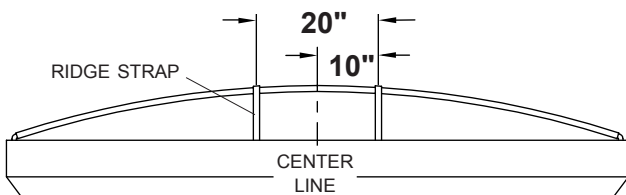
STEP 1: Mark hole locations on inside of top rails, centered on rails.

CARTS UP TO 8 1/2' WIDE

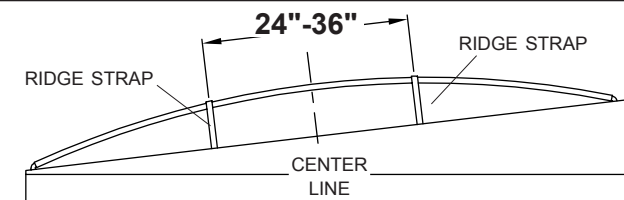


CARTS OVER 8 1/2' WIDE & SLOPED CARTS

Mark hole locations on inside of top rails, 20" apart.

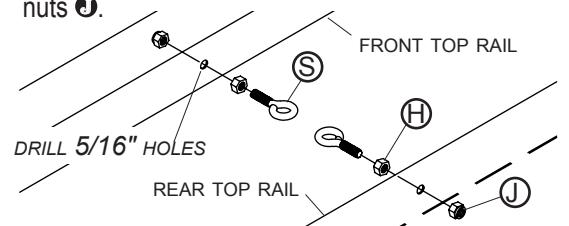


Mark hole locations on inside of top rails, 24" to 36" apart.

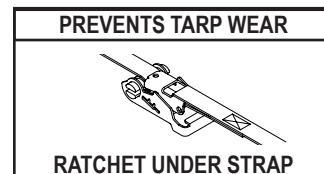
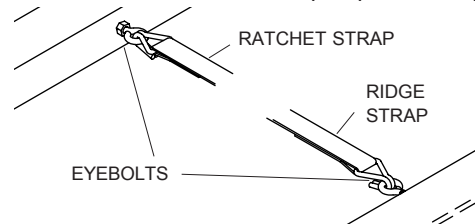


TIP: Straps can be placed farther apart on carts with steeper slopes.

STEP 2: Mark and drill 5/16" holes at marked locations. Fasten eyebolt anchors (S) through holes with nuts (I) and lock nuts (J).

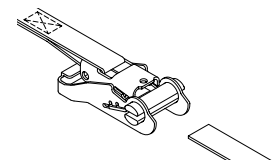


STEP 3: Hook ridge strap and ratchet strap into eyebolts. Position ratchet under strap to prevent tarp wear.



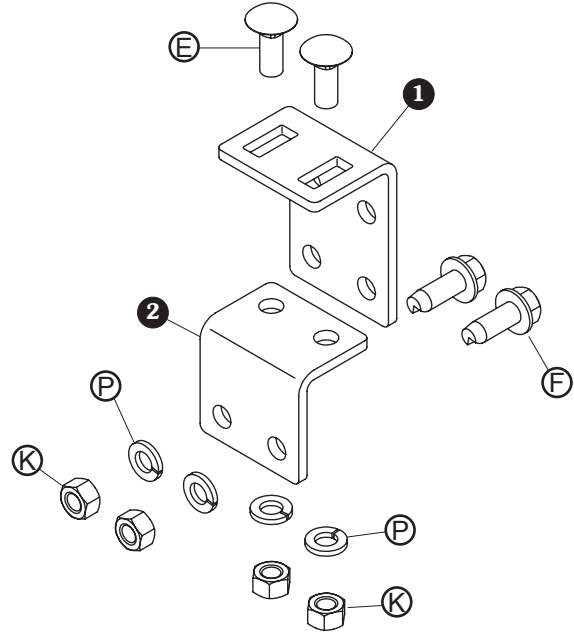
STEP 4: Thread strap through ratchet and tighten.

NOTE: Keep ridge straps tight for adequate tarp support. Check tension regularly.



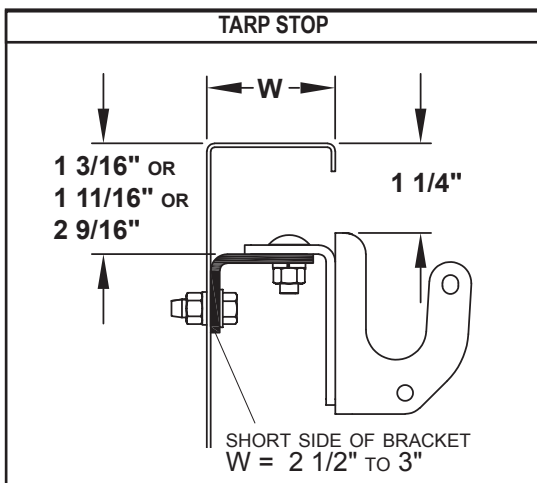
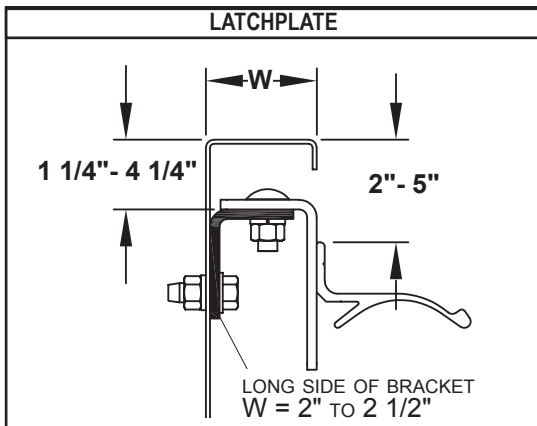
NOTE: Adjustable offset brackets create space between box and tarp stops/latchplates. Use where obstacles interfere with standard tarp stop/latchplate installation or top rail does not provide enough material to mount tarp stops or latchplates.

Item	Part #	Description
1.	1121507	Adjustable Offset Bracket - Latchplate/Tarp Stop - Slider
2.	1121508	Adjustable Offset Bracket - Latchplate/Tarp Stop - Fixed
E.	1702522	Carriage Bolt - 3/8" x 1"
F.	1700400	Self-Tapping Screw - 3/8" x 1"
P.	1700434	Lock Washer - 3/8"
K.	1700407	Hex Nut - 3/8"

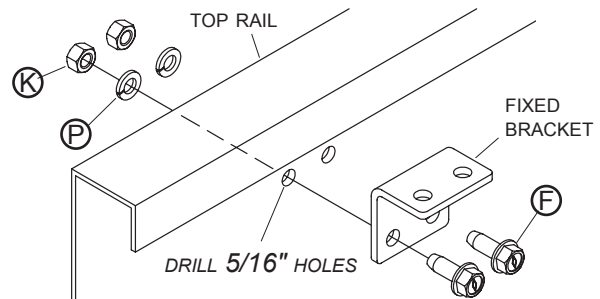


NOTE: To determine tarp stop and latchplate bracket assembly locations along side of box, see next page.

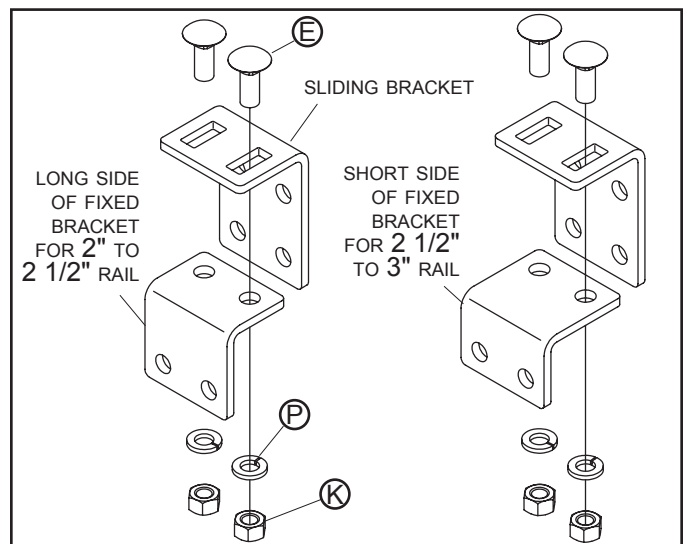
STEP 1: Locate fixed brackets under top rail as shown.



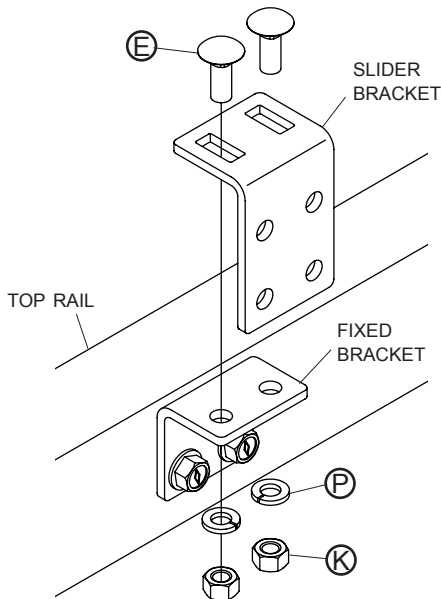
STEP 2: To position tarp stops 1 1/4" below top of rail as shown on page 17, align bracket with one of three measurements shown in step 1 (depending on box design). Using holes in bracket as guide, mark and drill 5/16" holes. Fasten bracket to side of box with screws (F), washers (P) and nuts (K).



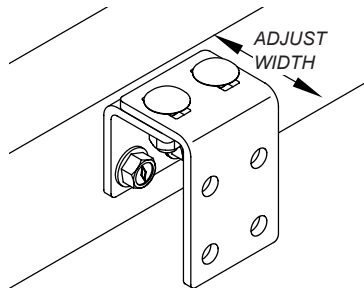
STEP 3: Assemble sliding bracket to fixed bracket as shown.



STEP 4: Assemble slider bracket to fixed bracket with carriage bolts **E**, washers **P** and nuts **K**.

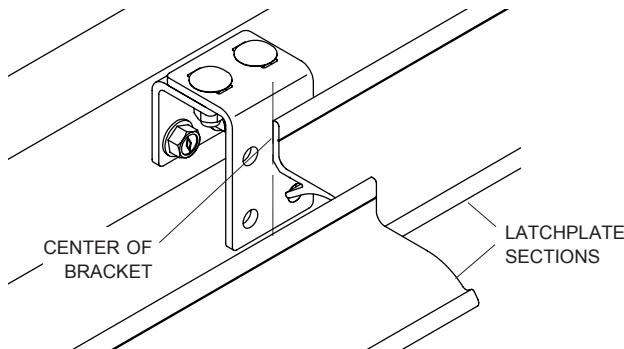


STEP 5: Adjust width to match hinge bracket width before tightening carriage bolts.

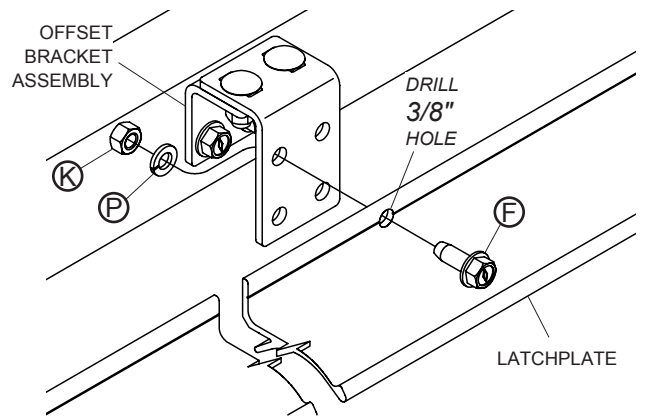


LATCHPLATES

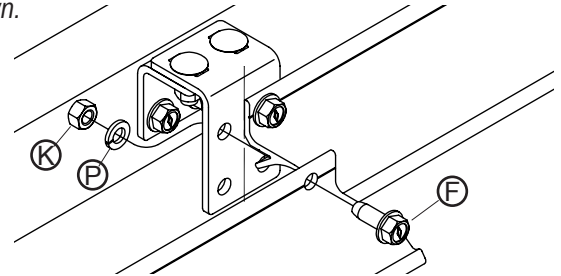
STEP 1: Position one offset bracket assembly every 2' along top rail (see owner's manual). Where latchplate sections meet, center bracket assemblies as shown (see note).



STEP 2: Align latchplate with upper holes in offset bracket assemblies. Using holes in brackets as guide, mark and drill 3/8" holes in latchplate. Fasten latchplate to offset bracket assemblies with screws **F**, washers **P** and nuts **K**.



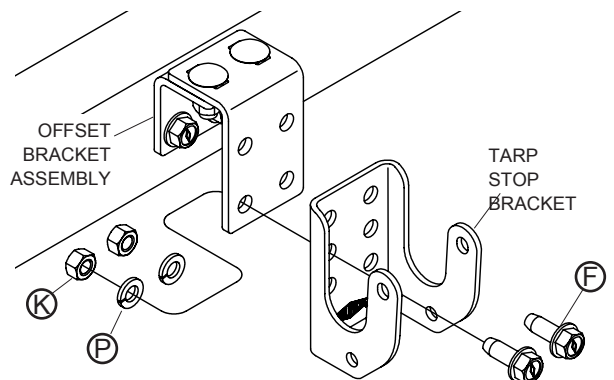
NOTE: Fasten latchplate to brackets through only one hole, in most cases. Where latchplate sections meet, fasten as shown.



TARP STOPS

STEP 1: Locate one offset bracket at each tarp stop. See owner's manual for tarp stop locations.

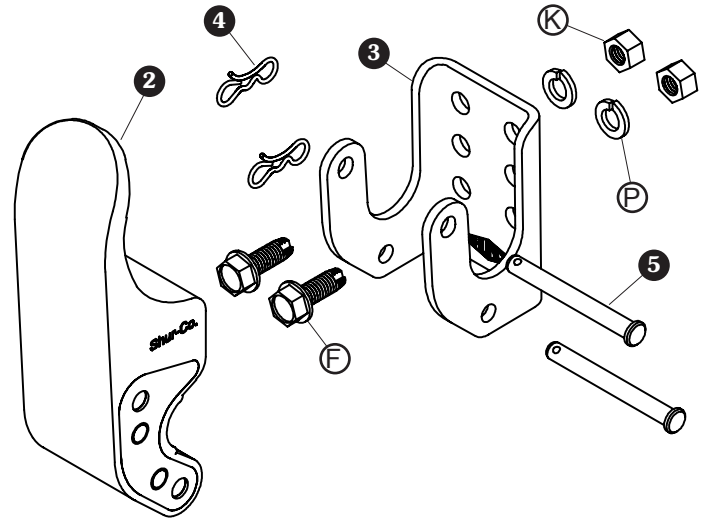
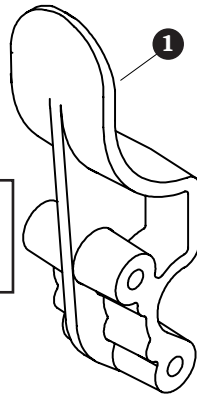
STEP 2: Align middle holes in tarp stop bracket with lower holes in offset bracket assembly. Fasten tarp stop bracket to offset bracket assembly with screws **F**, washers **P** and nuts **K**.



NOTE: See page 22 for standard tarp stop option.

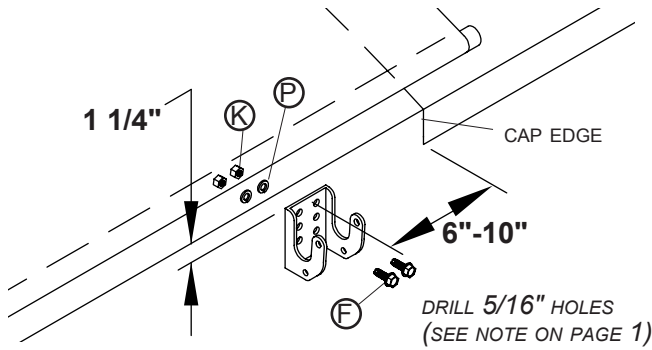
NOTE: Shur-Co® recommends using only recessed tarp stops where top rail lip is on outside of grain cart.

Item	Part #	Description
1.	1705775	Easy-Off Cast Aluminum Tarp Stop Upright
2.	1115216	Easy-Off Flexible Tarp Stop Upright w/Plate
3.	1100833	Easy-Off Tarp Stop Body
4.	1704380	Bowtie Cotter Pin
5.	1703604	Clevis Pin - 5/16" x 2 7/8"
F.	1700400	Self-Tapping Screw - 3/8" x 1"
K.	1700407	Hex Nut - 3/8"
P.	1700434	Lock Washer - 3/8"

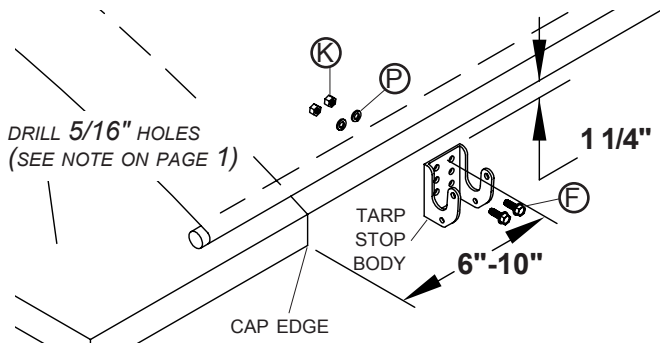


NOTE: Install tarp stop body on a vertical surface. Fasten through holes that best fit your top rail configuration.

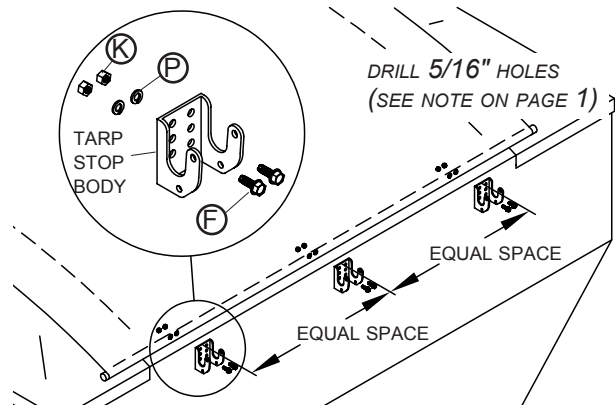
STEP 1: Locate first tarp stop body 6" to 10" from edge of end cap and 1 1/4" below top of side rail. Mark and drill holes and fasten to box with screws **F**, lock washers **P** and nuts **K**.



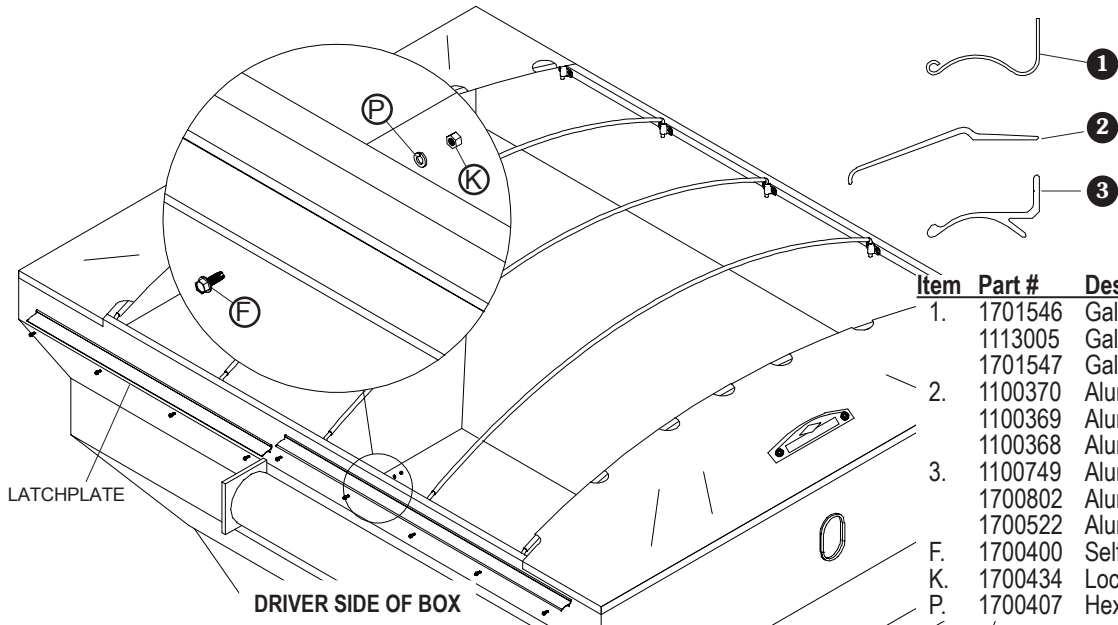
STEP 2: Square up tarp along length of box. Locate second tarp stop body 6" to 10" from edge of end cap and 1 1/4" below top of side rail. Mark and drill holes and fasten with screws **F**, lock washers **P** and nuts **K**.



STEP 3: Equally space remaining tarp stop bodies. Mark and drill holes and fasten to box with screws **F**, lock washers **P** and nuts **K**.



NOTE: Tarp stop uprights will be installed after tarp has been set on box with fixed tube resting in tarp stop bodies. See page 18.

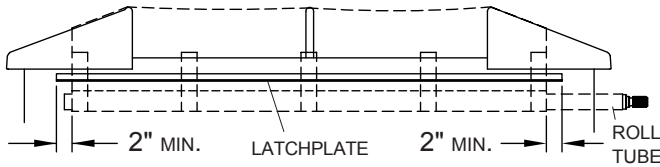


NOTE:
 Latchplate must extend at least 2" past tarp at each end.

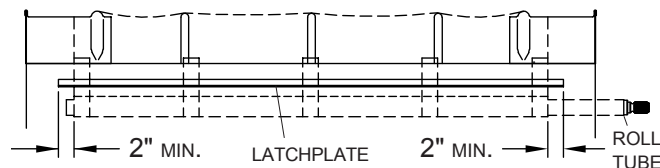
Item	Part #	Description
1.	1701546	Galv. Side-Mount Latchplate - 4'
	1113005	Galv. Side-Mount Latchplate - 6'
	1701547	Galv. Side-Mount Latchplate - 8'
2.	1100370	Alum. Top-Mount Latchplate - 4'
	1100369	Alum. Top-Mount Latchplate - 6'
	1100368	Alum. Top-Mount Latchplate - 8'
3.	1100749	Alum. Side-Mount Latchplate - 4'
	1700802	Alum. Side-Mount Latchplate - 6'
	1700522	Alum. Side-Mount Latchplate - 8'
F.	1700400	Self-Tapping Screw - 3/8" x 1"
K.	1700434	Lock Washer - 3/8"
P.	1700407	Hex Nut - 3/8"

STEP 1: Measure and cut latchplate sections to extend at least 2" past where tarp will be at front and rear of tarp. Grind sharp edges smooth.

FABRIC CAPS



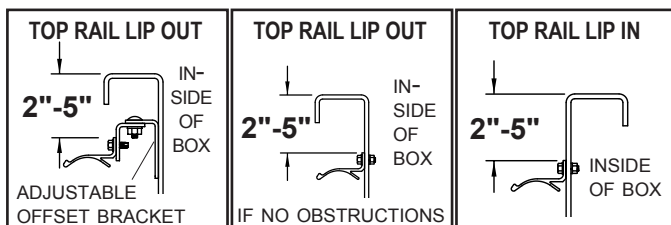
GALVANIZED CAPS



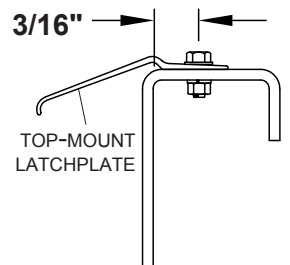
NOTE: To reverse roll (open tarp from passenger side of box), locate latchplate on passenger side. Align latchplate sections.

STEP 2A: Side mount latchplate. Starting at rear of box, position latchplate sections 2" to 5" down from top edge of rail on driver side of box in an area free from obstructions. Clamp in place.

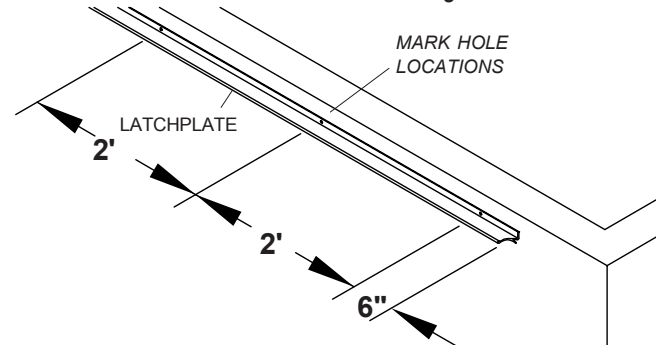
ACCEPTABLE METHODS TO MOUNT LATCHPLATE



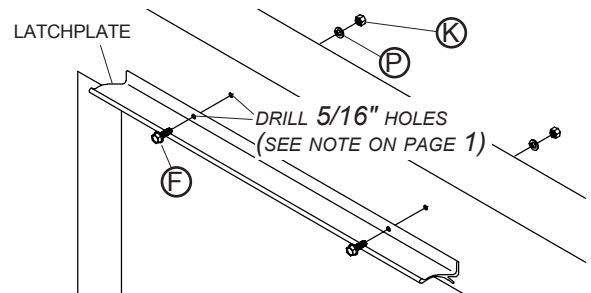
STEP 2B: Top-mount latchplate. 1 3/16"
 Install in same way as side-mount latchplate, except fasten over top rail, aligning screws about 1 3/16" from edge of rail.

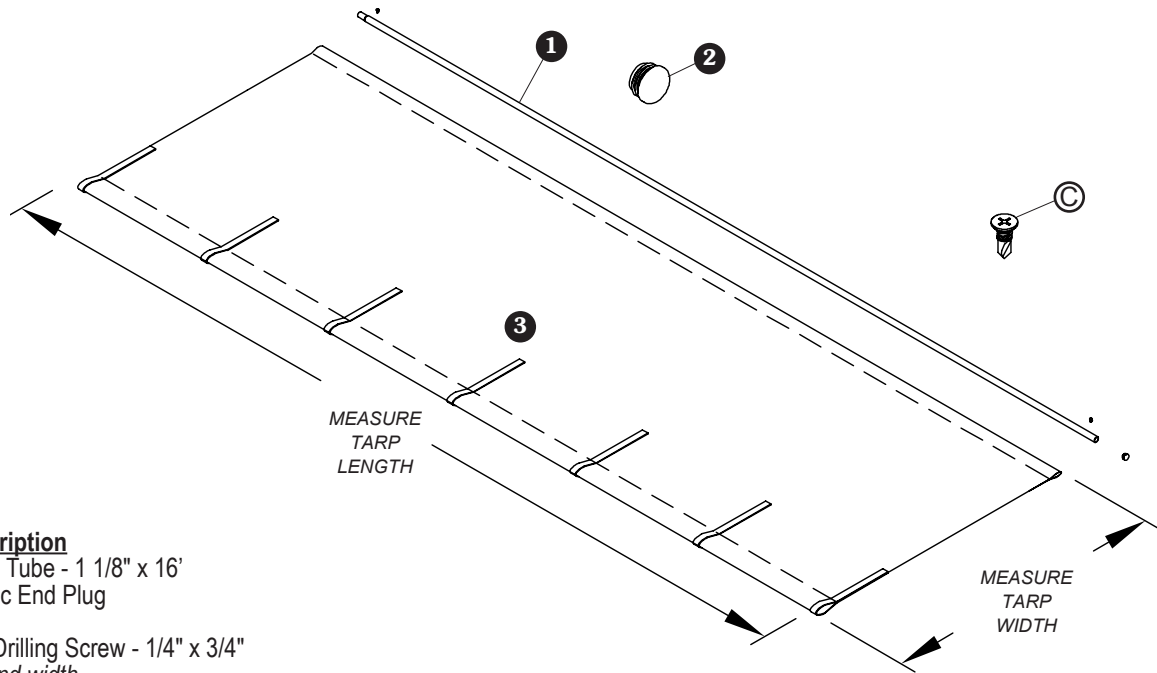


STEP 3: Mark hole locations on latchplate about every 2', with holes no more than 6" from edges.



STEP 4: Drill 5/16" holes through latchplate and box. Fasten latchplate to box with screws (F), lock washers (K) and nuts (P).





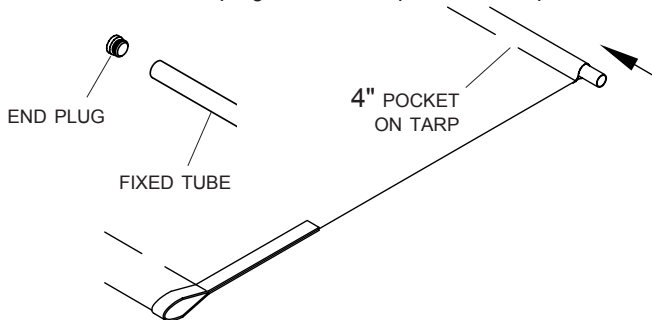
Item	Part #	Description
1.	1700051	Fixed Tube - 1 1/8" x 16'
2.	1700523	Plastic End Plug
3.	*	Tarp
C.	1704768	Self-Drilling Screw - 1/4" x 3/4"

*Specify box length and width

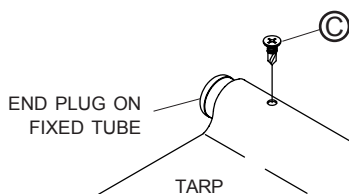
STEP 1: Open tarp and stretch tight. Measure and compare tarp measurements with those on spec sheet attached to tarp. Do not proceed with installation if tarp measurements do not match measurements specified on sheet. Call Shur-Co® or your local dealer for alterations or a replacement tarp.

NOTE: Tarps cannot be returned for free replacement beyond this point. Tarps damaged beyond this point may be returned for repair or replacement at owner's expense.

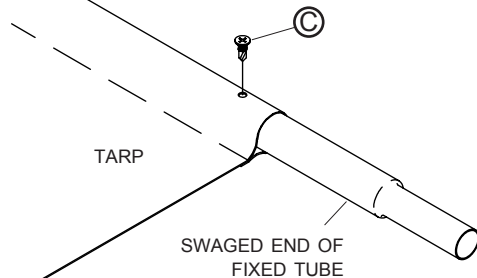
STEP 2: Install end plug into full end of tube weldment. Insert tube, end plug first, into 4" pocket on tarp.



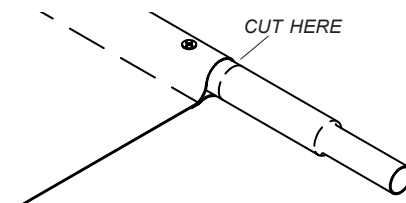
STEP 3: Extend fixed tube 1/4" past tarp edge and secure with screw C.



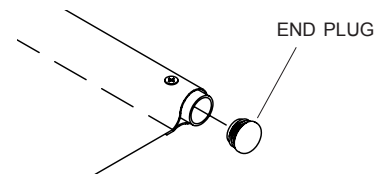
STEP 4: Stretch tarp along fixed tube and secure with second screw C.



STEP 5: Cut fixed tube 1/4" past edge of tarp, removing swaged end. Grind smooth.

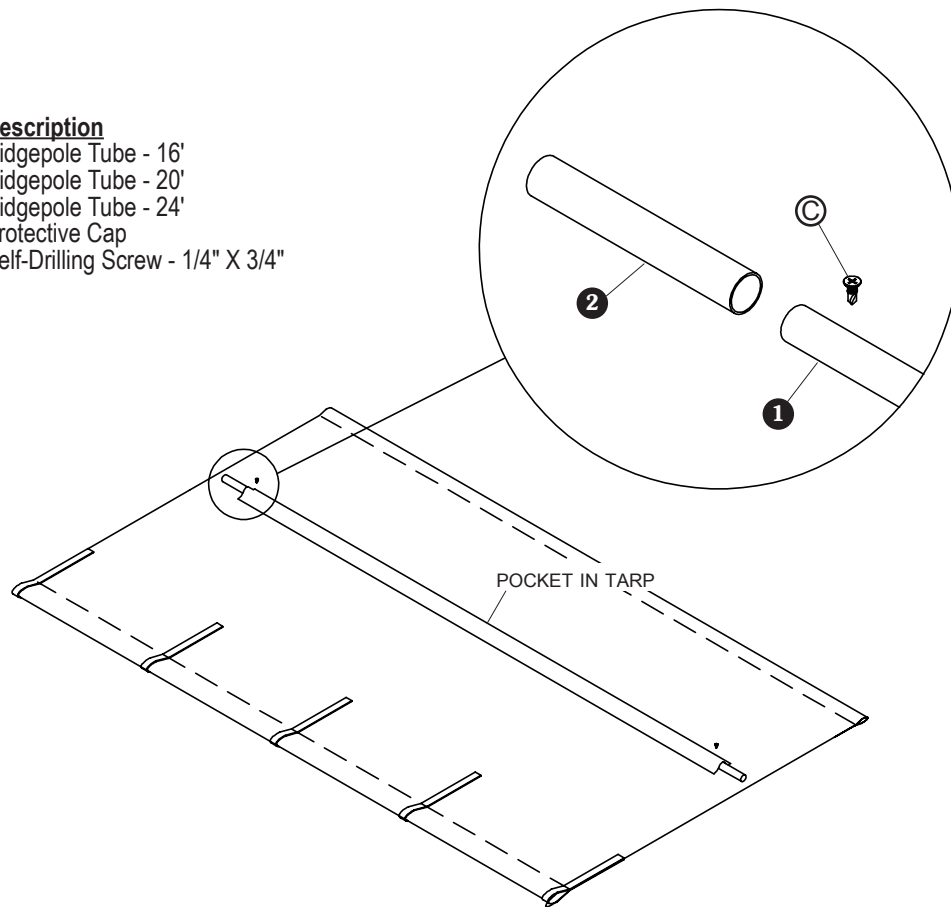


STEP 6: Insert end plug.



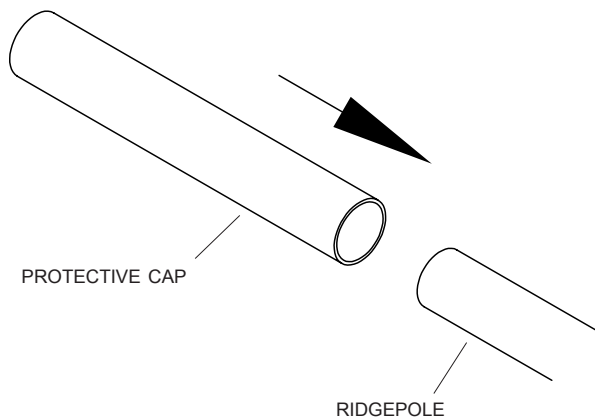
STEP 7: Wind tarp completely around fixed tube, then lift rolled up tarp assembly onto grain cart. Unwind tarp and square up with cart.

Item	Part #	Description
1.	1701204	Ridgepole Tube - 16'
	1701205	Ridgepole Tube - 20'
	1701206	Ridgepole Tube - 24'
2.	1700212	Protective Cap
C.	1704768	Self-Drilling Screw - 1/4" X 3/4"

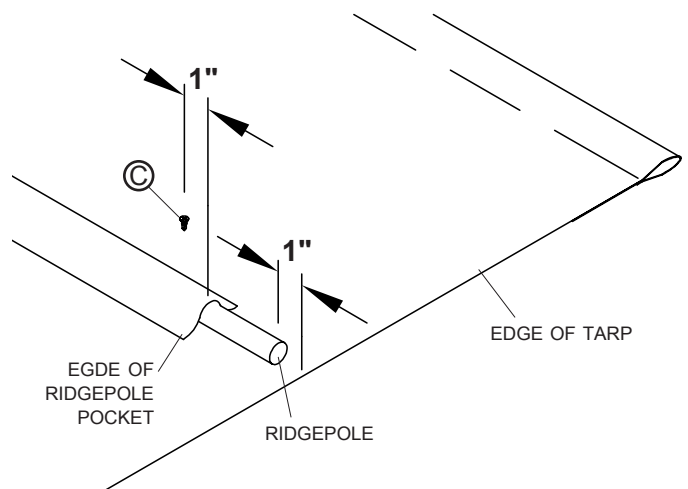


STEP 1: Cut ridgepole tube 2" shorter than tarp length. Grind rough edges smooth.

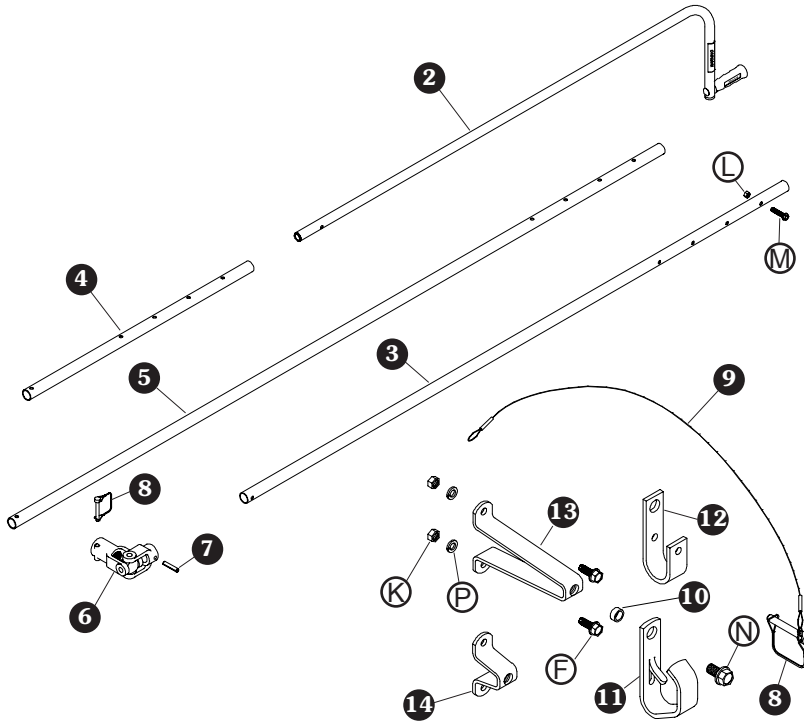
STEP 2: Install protective caps over ends of ridgepole.



STEP 3: Insert ridgepole into ridgepole pocket on tarp. Center ridgepole in tarp pocket and verify that ridgepole is 1" shorter than tarp on each end.

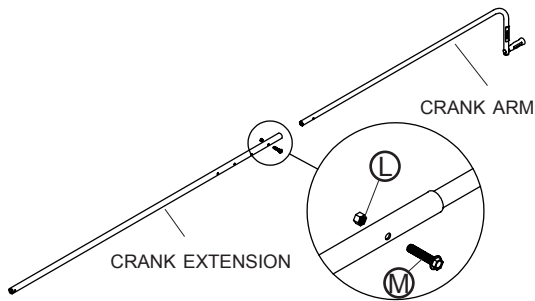


STEP 4: Install screw 1" from edge of pocket. Pull tarp to full length and install screw 1" from opposite end of ridgepole. Equally space remaining screws.



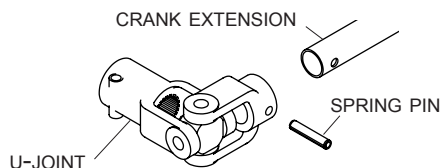
Item	Part #	Description
1.	1100171	Standard Crank Arm - 24"
2.	1100069	Long Crank Arm - 60"
3.	1100028	Crank Extension - 80"
4.	1100687	Crank Extension - 33"
5.	1106449	Crank Extension - 96"
6.	1701243	Splined U-Joint
7.	1700443	Spring Pin - 3/8" x 2"
8.	1700526	Wire Lock Pin
9.	1100574	Cable w/Snap
10.	1100306	Retainer Bushing
11.	1107049	Pinless Crank Retainer
12.	1100040	Crank Retainer J-Hook
13.	1100033	Crank Retainer 7" Standoff
14.	1100137	Crank Retainer 2" Standoff
F.	1700400	Self-Tapping Screw - 3/8" x 1"
M.	1700369	Cap Screw - 3/8" x 1 3/4"
K.	1700407	Hex Nut - 3/8"
L.	1700418	Centerlock Nut - 3/8"
N.	1702996	Cap Screw - 1/2" x 1 1/4"
P.	1700434	Lock Washer - 3/8"

STEP 1: Insert crank arm into crank extension. Fasten with screw **M** and nut **L**. Finger tighten.

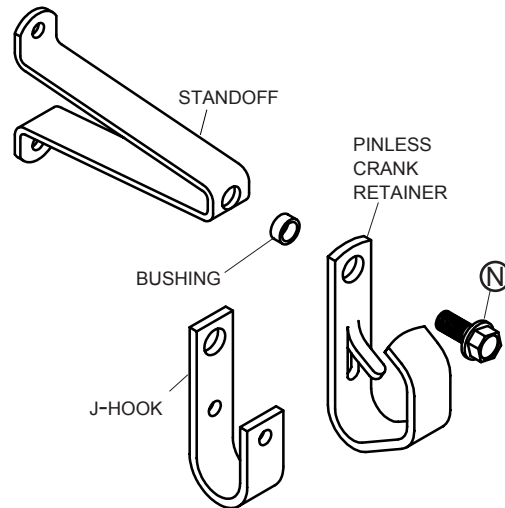


NOTE: Adjust crank arm length after opening and closing tarp. Tighten screw and nut after final adjustment.

STEP 2: Insert crank extension with crank arm into splined U-joint. Secure with 3/8" x 2" spring pin.



STEP 3: Assemble crank retainer standoff, bushing and pinless crank retainer or J-hook with screw **N**.



NOTE: See page 22 to install crank retainer and page 26 to complete crank arm installation.

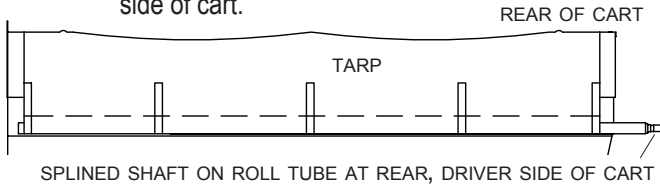
ROLL TUBE

STEP 1: Insert roll tube into 5" tarp pocket with splined shaft at rear of tarp.

TIP: Inflate 5" tarp pocket with air chuck while inserting roll tube.

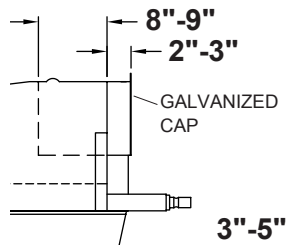
STEP 2: Wind tarp around roll tube and set on top of bows with splined shaft at rear of cart.

STEP 3: Unroll tarp and let roll tube side of tarp hang on driver side of cart.



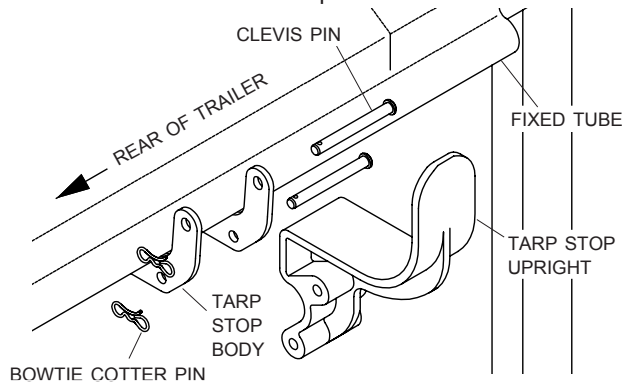
NOTE: If you are installing system to open from driver side of cart, roll tube will hang on passenger side of cart.

STEP 4: Center tarp between end caps on grain cart. Tarp must overlap end caps at least 8" to 9", leaving 2" to 3" of cap exposed. Splined shaft must extend 3" to 5" past rear of cart.



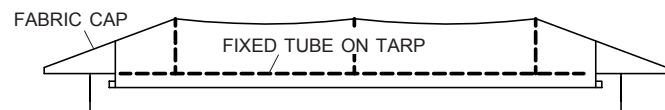
TARP STOPS

STEP 5A: Easy-off tarp stop option: Adjust tarp so fixed tube rests squarely in tarp stop bodies. Fasten tarp stop uprights to tarp stop bodies with clevis pins. Secure with bowtie cotter pins.



NOTE: Align bowtie cotter pins toward rear of trailer as shown.

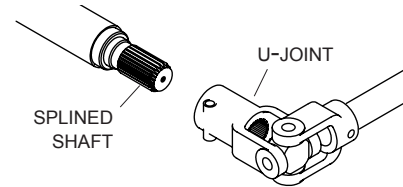
STEP 5B: Standard tarp stop option: Adjust fixed tube to hang about 3" below top rail on passenger side of box. Square up tarp and fixed tube.



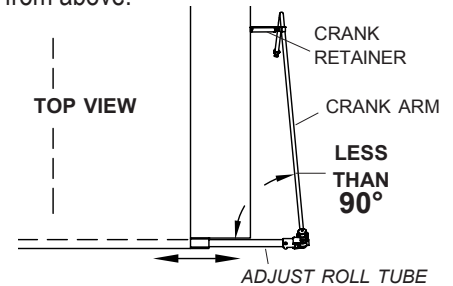
GO TO PAGE 20 TO INSTALL STANDARD TARP STOPS

CRANK RETAINERS

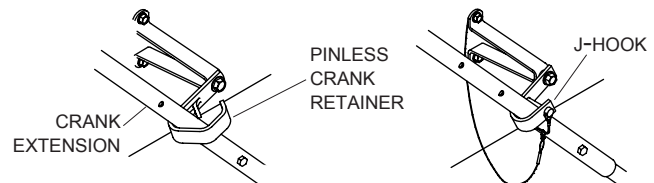
STEP 6: Slide U-joint on crank arm over splined shaft.



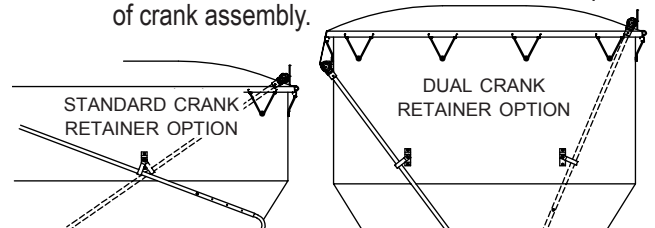
STEP 7: Adjust roll tube toward front or rear of cart until angle between roll tube and crank arm is less than 90° when viewed from above.



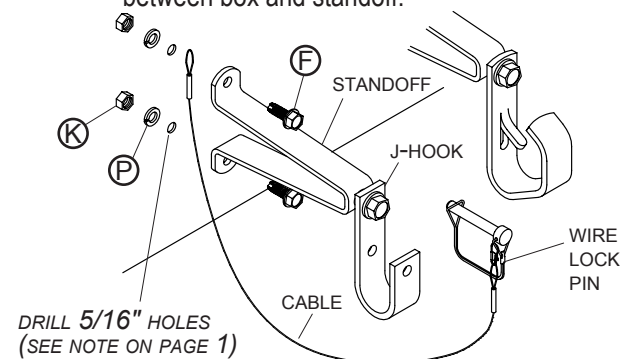
STEP 8: Mark locations for one or two crank retainers on back of box, where accessible by crank assembly from open or closed position.

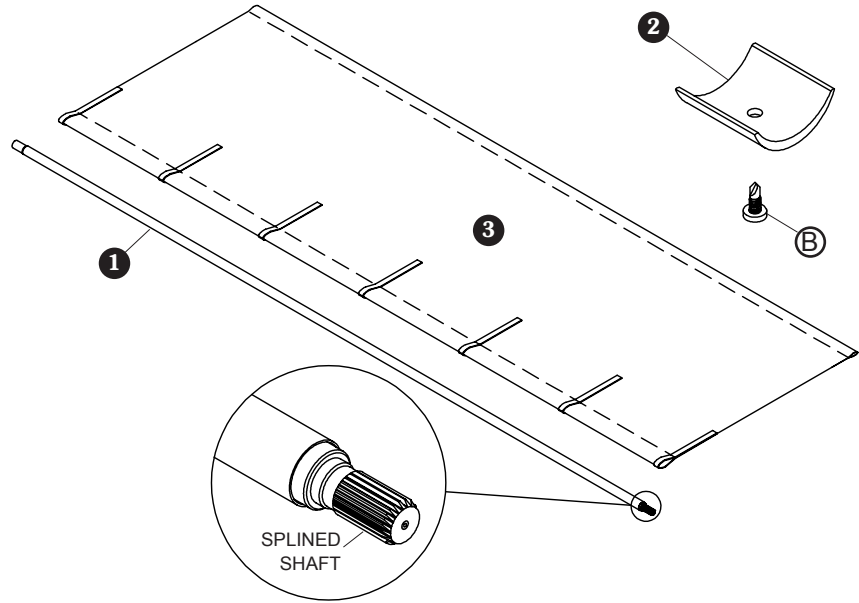


Locate crank retainer to hold crank extension portion of crank assembly.



STEP 9: Drill 5/16" holes and fasten crank retainer to box with screws (F), lock washers (P) and nuts (K). If using J-hook, snap cable onto wire lock pin and fasten cable between box and standoff.



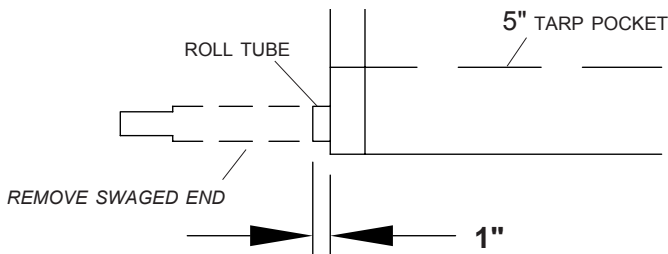


Item	Part #	Description
1.	1107057	Roll Tube w/Spline - 16'
2.	1701354	Plastic U-Clamp
3.		Tarp
B.	1700398	Self-Drilling Screw - 1/4" x 3/4"

ROLL TUBE - continued

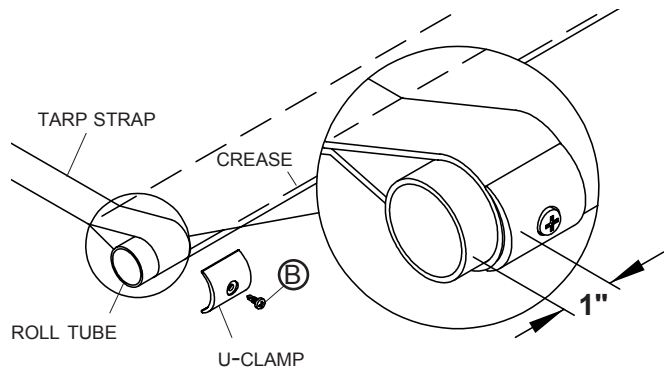
NOTE: To insert roll tube into tarp pocket and adjust position of roll tube, see previous page.

STEP 1: Cut roll tube 1" past front of tarp. Grind cut edge smooth.



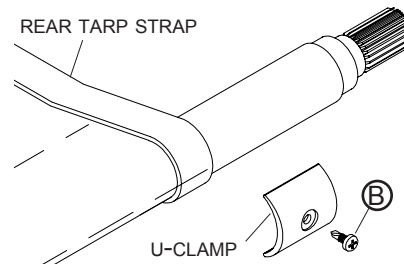
NOTE: If roll tube is swaged at front end, remove swage to allow Stretch Cord Return or Shur-Return™ to fit into roll tube.

STEP 2: Center first U-clamp on front tarp strap, positioning screw (B) on crease at bottom of tarp pocket. Fasten with screw (B).

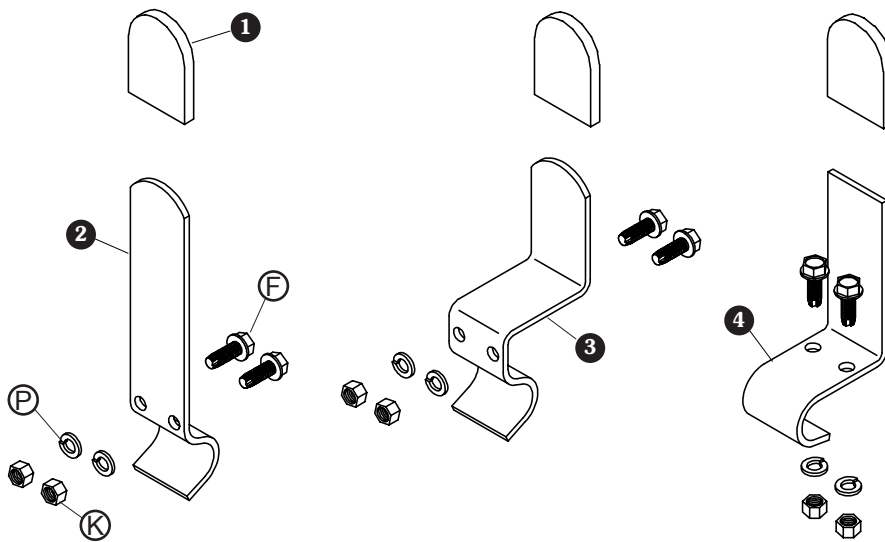


NOTE: If installing Shur-Return™, follow instructions included with kit. Fasten U-clamps with 1/4" x 1/2" screws.

STEP 3: Stretch tarp along roll tube so both sides of tarp are equal in length. Install second U-clamp on rear tarp strap.



STEP 4: Install remaining U-clamps in same manner on remaining tarp straps.

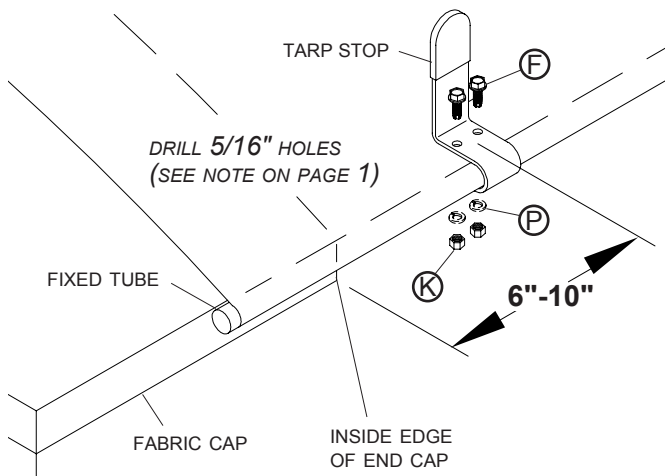


Item	Part #	Description
1.	1700729	Protective Cap
2.	1100049	Standard Tarp Stop
3.	1100392	Offset Tarp Stop
4.	1105163	Recessed Tarp Stop
F.	1700400	Self-Tapping Screw - 3/8" x 1"
K.	1700407	Hex Nut - 3/8"
P.	1700434	Lock Washer - 3/8"

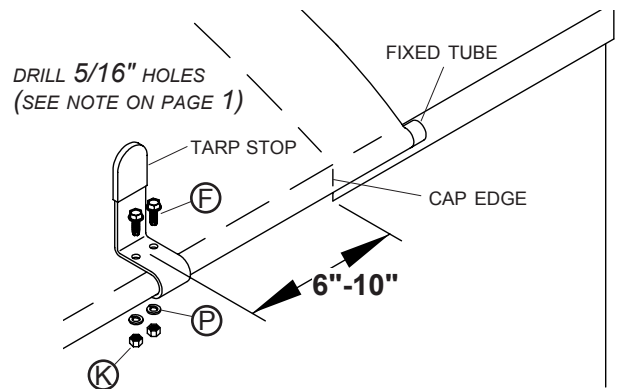
NOTE: If installing system to open from passenger side of cart, locate tarp stops on driver side.

STEP 1: Locate first tarp stop 6" to 10" from edge of end cap. Using tarp stop as guide, mark and drill holes. Place tarp stop over fixed tube and fasten to box with screws **F**, lock washers **P** and nuts **K**.

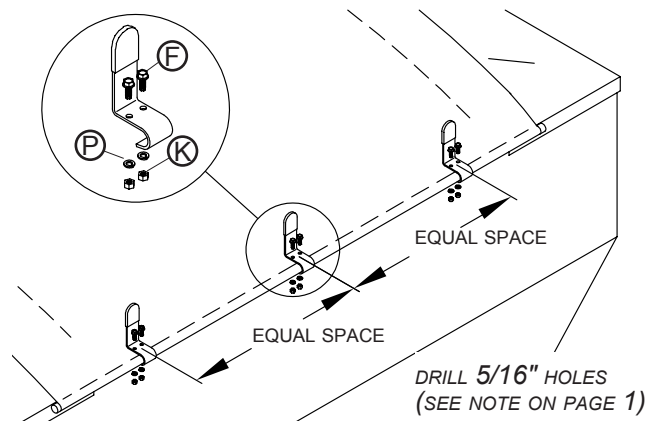
NOTE: Use washers and nuts where needed and drill 13/32" holes. If using self-tapping screws only, drill 5/16" holes.



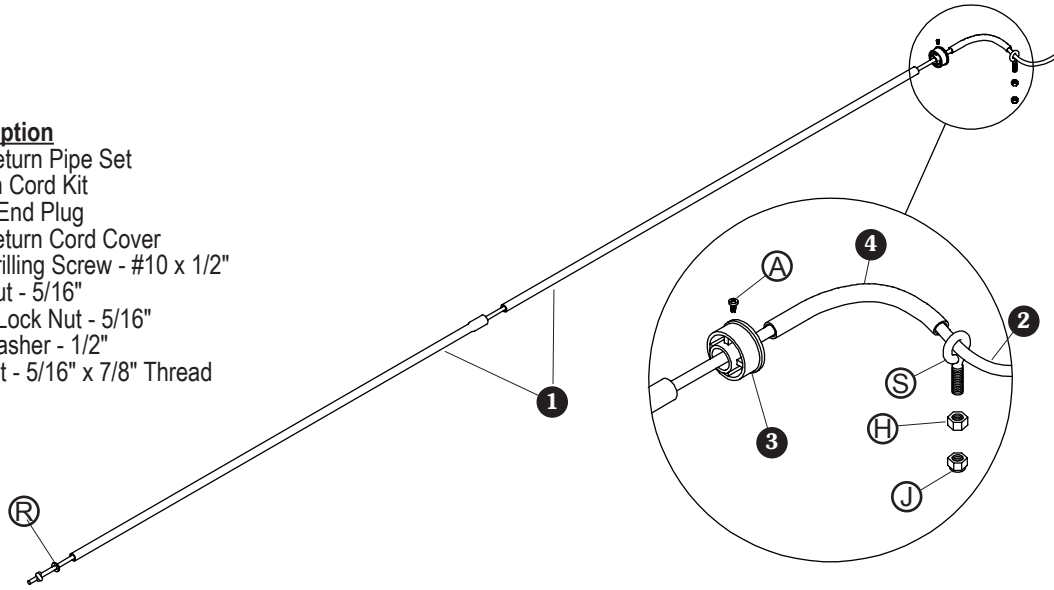
STEP 2: Square up and stretch tarp tight. Locate second tarp stop 6" to 10" from edge of end cap. Mark and drill holes and fasten to box with screws **F**, lock washers **P** and nuts **K**.



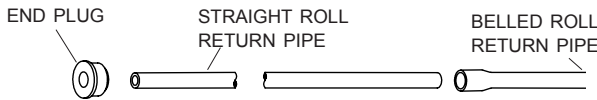
STEP 3: Equally space remaining tarp stops. Mark and drill holes and fasten to box with screws **F**, lock washers **P** and nuts **K**.



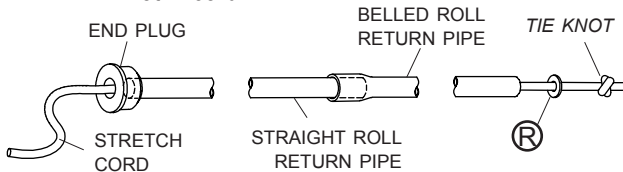
Item	Part #	Description
1.	1111067	Roll Return Pipe Set
2.	1114360	Stretch Cord Kit
3.	1100138	Nylon End Plug
4.	1107680	Roll Return Cord Cover
A.	1704743	Self-Drilling Screw - #10 x 1/2"
H.	1700411	Hex Nut - 5/16"
J.	1700419	Nylon Lock Nut - 5/16"
R.	1703373	Flat Washer - 1/2"
S.	1700717	Eyebolt - 5/16" x 7/8" Thread



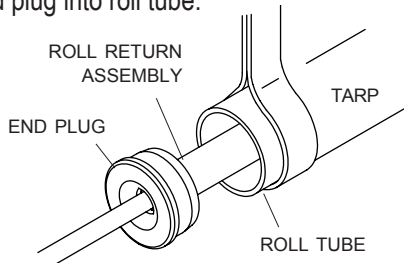
STEP 1: Insert straight roll return pipe into belled roll return pipe. Insert end plug into straight roll return pipe.



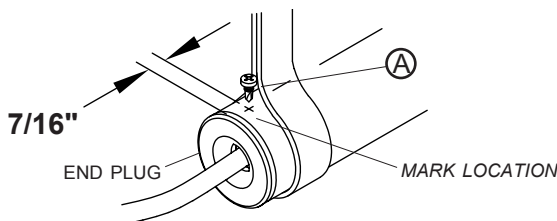
STEP 2: Insert stretch cord through end plug and roll return pipes. Slide flat washer (R) over stretch cord and tie knot in cord.



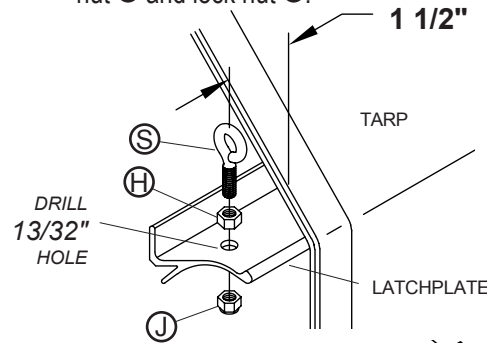
STEP 3: Insert roll return assembly into roll tube. Lightly tap end plug into roll tube.



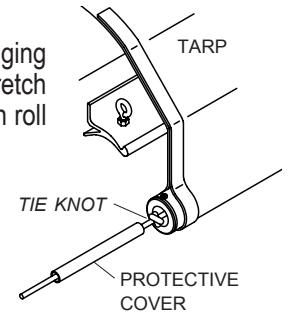
STEP 4: Mark location about 7/16" from edge of end plug. Secure end plug to roll tube with self-drilling screw (A).



STEP 5: Drill 13/32" hole through latchplate, 1 1/2" from edge of tarp. Insert eyebolt (S) through hole and secure with nut (H) and lock nut (J).

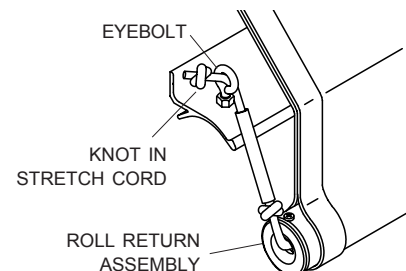


STEP 6: With tarp closed and hanging over edge of box, pull stretch cord to remove all slack in roll return assembly.

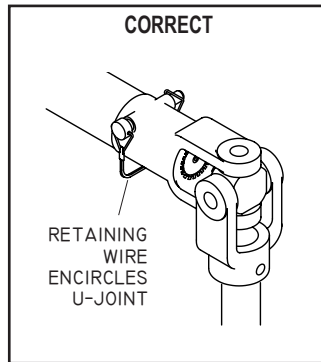
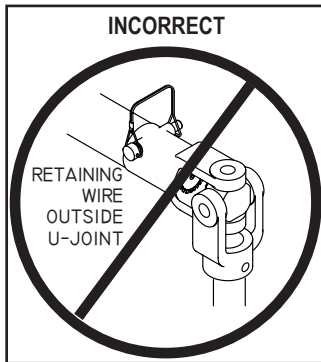
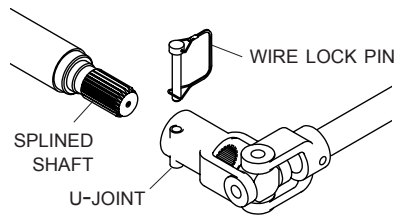


STEP 7: Tie knot in cord at end plug. Slide protective cover over stretch cord.

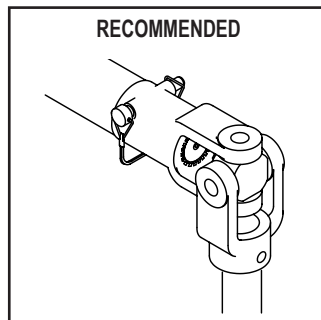
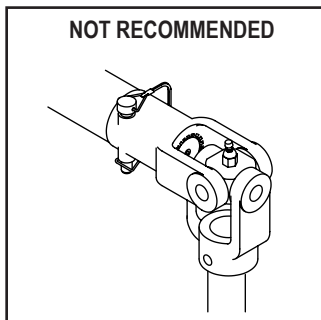
STEP 8: Thread stretch cord through eyebolt, applying enough tension to almost lift roll return. Tie knot.



STEP 1: Secure U-joint to splined shaft with wire lock pin. Fasten wire lock pin as shown below.



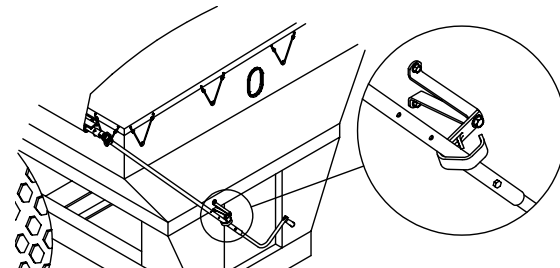
NOTE: U-joint is designed to operate as shown below and is considerably stronger in this position.



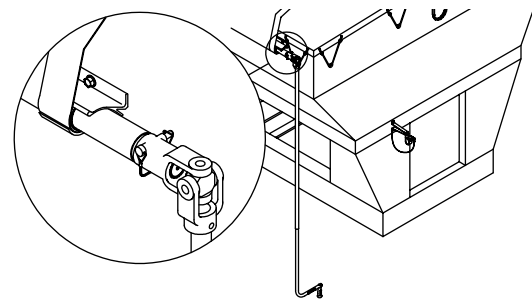
CAUTION
Do not open or close tarp without U-joint securely fastened to splined shaft with wire lock pin. Failure to do so could result in injury.

STEP 2: Tighten tarp by lifting crank handle up into crank retainer (about 45°).

NOTE: It is normal for tarp to make stretching noises as it tightens. This is not an indication of too much tension.

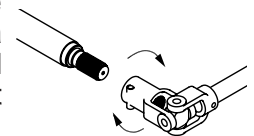


STEP 3: Hold crank handle firmly with both hands and roll tarp closed under latchplate. Bring crank handle perpendicular to ground to lock U-joint.



STEP 4: Check tarp tension. Holding crank arm at handle, press crank arm into crank retainer. It should take 40 to 60 pounds of pressure to force crank arm into crank retainer. Crank arm should bend 1/8".

STEP 5: To adjust tension, remove U-joint, rotate one tooth at a time and replace into splined shaft. Repeat until correct tension is achieved.



CAUTION
Uncontrolled crank spin. Hold crank firmly with both hands while operating. Failure to do so may result in minor or moderate injury.

NOTE: Locate above decal on crank arm.

PLACE ONLY THE LOWER PORTION OF THIS DECAL IN A LOCATION VISIBLE TO THE OPERATOR OR ALL WARRANTIES ARE VOID!!

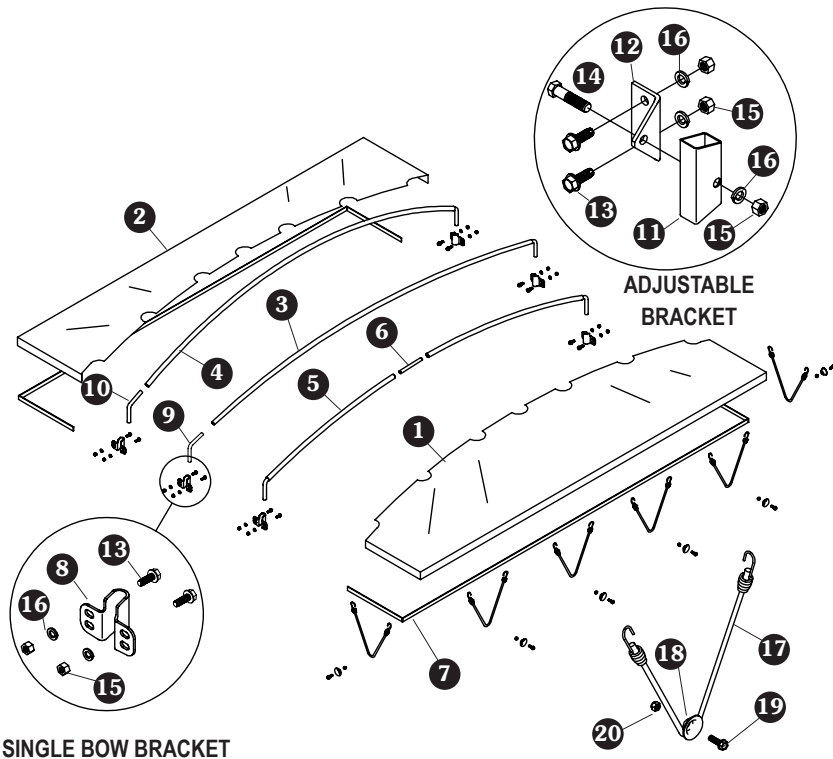
ATTENTION!

THE TARP MUST BE KEPT TO A RECOMMENDED 40-60 LBS. OF TENSION OR EXCESSIVE TARP WEAR MAY OCCUR. DO NOT WALK OR STAND ON THE END CAPS. DO NOT OPERATE THIS VEHICLE, AT HIGHWAY SPEEDS, WHILE THE TARP SYSTEM IS IN THE "OPEN" POSITION!

1. Crank the tarp up under the latch plate.	2. Bring the crank arm down to a vertical position.	3. Lift the crank arm up to the crank retainer.	To Adjust The Tarp Tension: 1. Allow the tarp to roll down away from the latch plate. 2. Remove the crank arm from the splined shaft. 3. Rotate the crank one or two teeth and reassemble.

Shur-Co, Yankton, SD 1-800-4 SHUR-LOK

NOTE: Locate above decal near crank retainer on box or all warranty claims will be void.



END CAPS - FABRIC

Item	Part #	Description
	1113359	Low-Rise Fab Cap Hardware
	1113360	High-Rise Fab Cap Hardware
	1113350	X-Wide Low-Rise Fab Cap Hardware
	1113351	X-Wide High-Rise Fab Cap Hardware
	1117946	Adjustable Bow Bracket Kit
1.	*	Fabric Back Cap
2.	*	Fabric Front Cap
3.	1100760	Low-Rise Bow
4.	1100762	High-Rise Bow
5.	1106950	X-Wide Low-Rise Bow
	1106926	X-Wide High-Rise Bow
6.	1110685	X-Wide Bow Connector Tube
7.	1700581	Flat Bar - 103"
8.	1120836	Single Bow Bracket
9.	1100695	Low-Rise Bow Shank
10.	1106925	High-Rise Bow Shank
11.	1111420	Bow Shank Sleeve
12.	1111421	Adjustable Bow Bracket
13.	1700400	Self-Tapping Screw - 3/8" x 1"
14.	1700369	Cap Screw - 3/8" x 1 3/4"
15.	1700407	Hex Nut - 3/8"
16.	1700434	Lock Washer - 3/8"
17.	1700990	Bungee Cord - 18"
18.	1701355	Rope Anchor
19.	1701059	Self-Tapping Screw - 5/16" x 1"
20.	1700419	Nylon Lock Hex Nut - 5/16"

* Specify size

END CAPS - FACE MOUNT GALVANIZED

Item	Part #	Description
	1107785	Galvanized Face Mount Cap Mtg. Hardware w/Trim Seal - 110"
	1107786	Galvanized Face Mount Cap Mtg. Hardware w/Trim Seal - 132"
	1107787	Metal Cap Mounting Hardware
1.	*	Low-Rise Square Corner Front Cap
	*	High-Rise Square Corner Front Cap
2.	*	Low-Rise Square Corner Back Cap
	*	High-Rise Square Corner Back Cap
3.	1700152	Trim Seal (per foot)
	1100165	Trim Seal - 110"
	1100357	Trim Seal - 132"
4.	1700400	Self-Tapping Screw - 3/8" x 1"
5.	1700434	Lock Washer - 3/8"
6.	1700407	Hex Nut - 3/8"

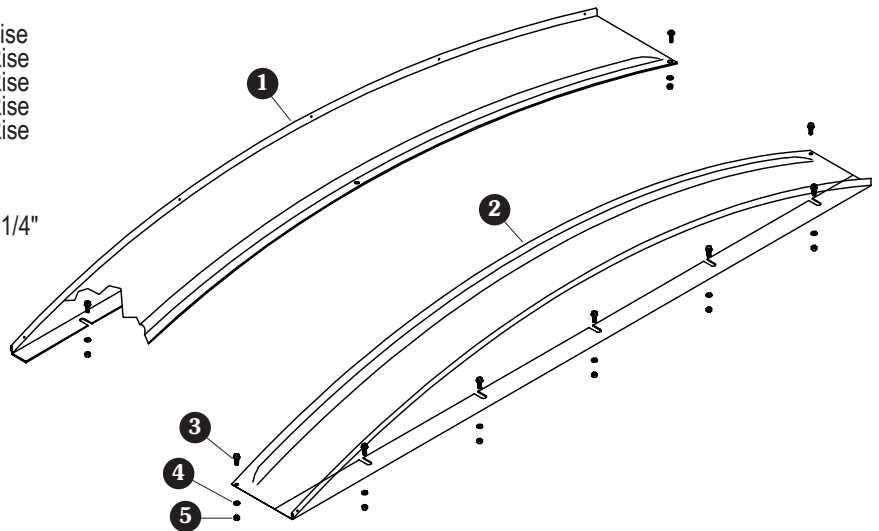
* Specify size

END CAPS - FLAT W/CAP SUPPORT BRACES

Item	Part #	Description
1.	1116526	Cap Support Brace
2.	1101683	Anchor Bushing
3.	1700400	3/8" x 1" Self-Tapping Screw
4.	1703964	3/8" x 1 1/4" Truss Hd. Screw
5.	1700407	3/8" Hex Nut
6.	1700434	3/8" Lock Washer
7.	*	Galvanized Flat Cap

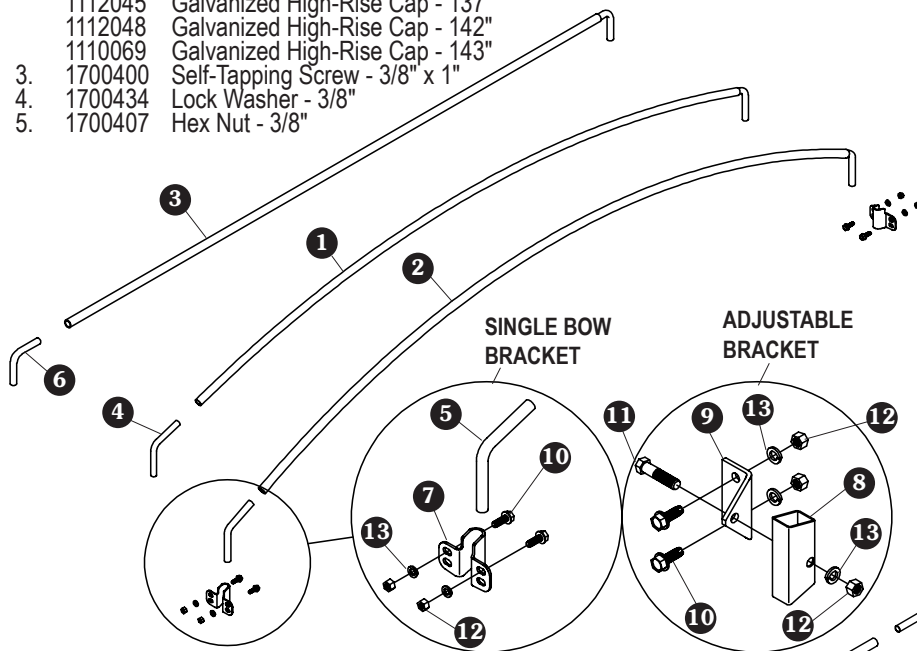
BOWS - X-WIDE FLAT

Item	Part #	Description
1.	1120303	Bow Weldment - 113" to 122" x 6" Rise
	1120304	Bow Weldment - 123" to 132" x 6" Rise
	1120305	Bow Weldment - 133" to 142" x 6" Rise
	1120306	Bow Weldment - 143" to 152" x 6" Rise
	1120307	Bow Weldment - 153" to 162" x 6" Rise
2.	1117665	Bow Bracket - 90°
3.	1701577	Cotter Pin
4.	1117683	Bow Shank 90°
5.	1703964	Truss Hd. Machine Screw - 3/8" x 1 1/4"
6.	1700407	Hex Nut - 3/8"
7.	1700434	Lock Washer - 3/8"



END CAPS - GALVANIZED STEEL

Item	Part #	Description
1.	1108977	Galvanized Low-Rise Cap - 93"
	1108980	Galvanized Low-Rise Cap - 95"
	1108983	Galvanized Low-Rise Cap - 100"
2.	1108986	Galvanized High-Rise Cap - 93"
	1108989	Galvanized High-Rise Cap - 95"
	1108992	Galvanized High-Rise Cap - 100"
	1110066	Galvanized High-Rise Cap - 107"
	1115936	Galvanized High-Rise Cap - 113"
	1110067	Galvanized High-Rise Cap - 119"
	1112042	Galvanized High-Rise Cap - 125"
	1110068	Galvanized High-Rise Cap - 131"
	1112045	Galvanized High-Rise Cap - 137"
	1112048	Galvanized High-Rise Cap - 142"
	1110069	Galvanized High-Rise Cap - 143"
3.	1700400	Self-Tapping Screw - 3/8" x 1"
4.	1700434	Lock Washer - 3/8"
5.	1700407	Hex Nut - 3/8"

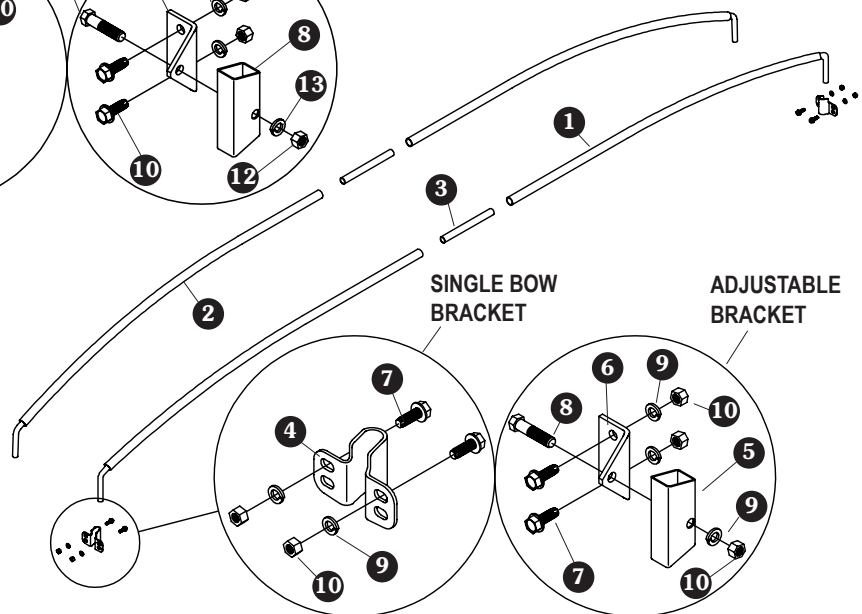


BOWS - STANDARD STEEL

Item	Part #	Description
	1109139	Standard Low-Rise Bow Kit
	1109091	Standard High-Rise Bow Kit
	1117946	Adjustable Bow Bracket Kit
1.	1100760	Standard Low-Rise Bow
2.	1100762	Standard High-Rise Bow
3.	1109149	Standard Flat Bow
4.	1100695	Standard Low-Rise Bow Shank
5.	1106925	Standard High-Rise Bow Shank
6.	1109150	Standard Flat Bow Shank
7.	1120836	Single Bow Bracket
8.	1111420	Bow Shank Sleeve
9.	1111421	Adjustable Bow Bracket
10.	1700400	Self-Tapping Screw - 3/8" x 1"
11.	1700369	Cap Screw - 3/8" x 1 3/4"
12.	1700407	Hex Nut - 3/8"
13.	1700434	Lock Washer - 3/8"

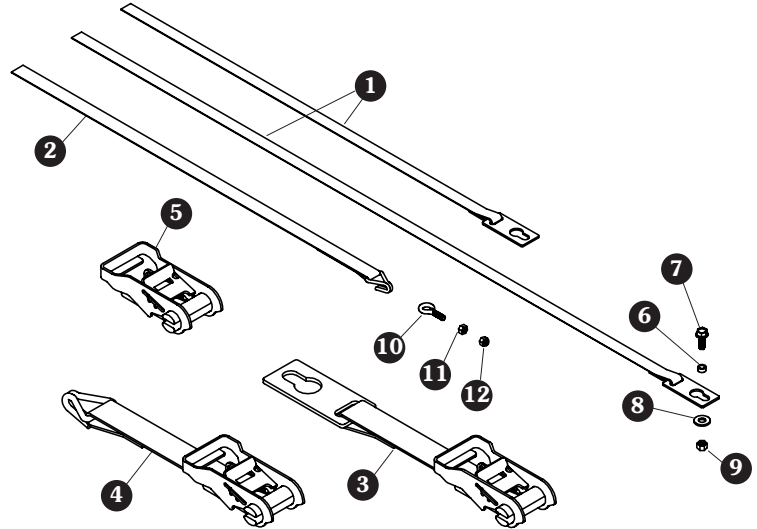
BOWS - X-WIDE GALVANIZED STEEL

Item	Part #	Description
	1109138	X-Wide Low-Rise Bow Kit - Universal
	1109137	X-Wide High-Rise Bow Kit - Universal
	1117946	Adjustable Bow Bracket Kit
1.	1106950	X-Wide Low-Rise Bow
2.	1106926	X-Wide High-Rise Bow
3.	1100685	X-Wide Bow Connector Tube
4.	1120836	Single Bow Bracket
5.	1111420	Bow Shank Sleeve
6.	1111421	Adjustable Bow Bracket
7.	1700400	Self-Tapping Screw - 3/8" x 1"
8.	1700369	Cap Screw - 3/8" x 1 3/4"
9.	1700434	Lock Washer - 3/8"
10.	1700407	Hex Nut - 3/8"



RIDGE STRAPS - 1 INCH

Item	Part #	Description
	1101685	Ridge Strap Kit w/Anchor - 1" x 25'
	1101686	Ridge Strap Kit w/Anchor - 1" x 39'
	1120048	Ridge Strap Kit w/Hook - 1" x 25'
1.	1101680	Ridge Strap w/Anchor - 1" x 25'
	1101681	Ridge Strap w/Anchor - 1" x 39'
2.	1105222	Ridge Strap w/Hook - 1" x 25'
3.	1101678	Ratchet w/1" Ridge Strap/Anchor
4.	1106153	Ratchet w/1" Ridge Strap/Hook
5.	1700836	Ratchet - 1" Ridge Strap
6.	1101683	Anchor Bushing
7.	1700400	Self-Tapping Screw - 3/8" x 1"
8.	1701176	Flat Washer - 3/8"
9.	1700418	Centerlock Nut - 3/8"
10.	1700717	Eyebolt Anchor - 5/16"
11.	1700411	Hex Nut - 5/16"
12.	1700419	Nylon Lock Nut - 5/16"

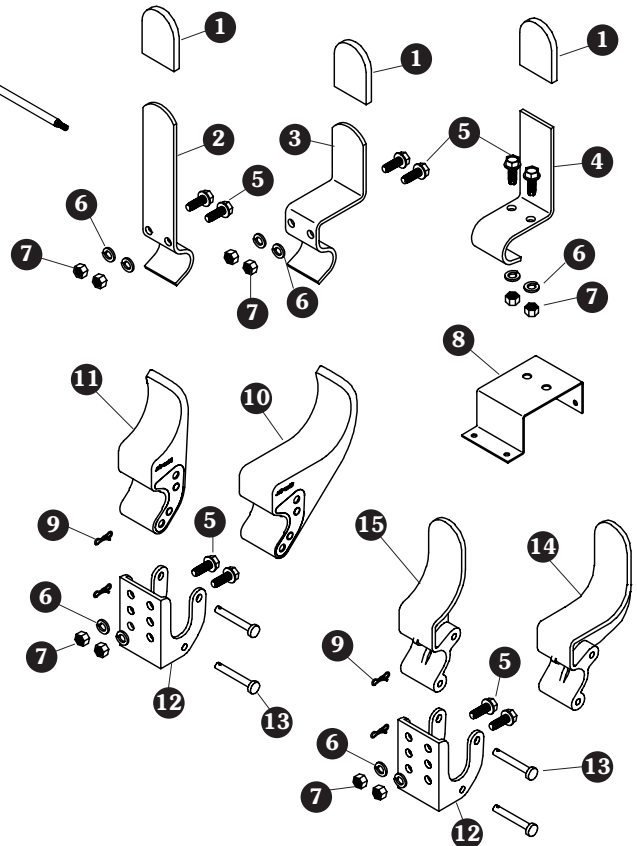
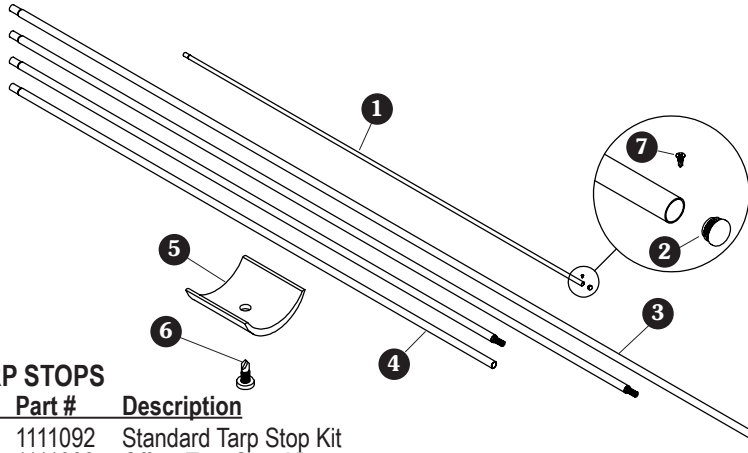


TARP TUBES

Item	Part #	Description
1.	1700051	Fixed Tube - 1 1/8" x 16'
2.	1700523	Plastic End Plug
3.	1107057	Roll Tube w/Spline - 16'
	1107058	Roll Tube w/Spline - 20'
	1107059	Roll Tube w/Spline - 24'
4.	1700048	Roll Tube - 16'
5.	1701354	Plastic U-Clamp
6.	1700398	Self-Drilling Screw - 1/4" x 3/4"
7.	1704768	Self-Drilling Screw - 1/4" x 3/4"

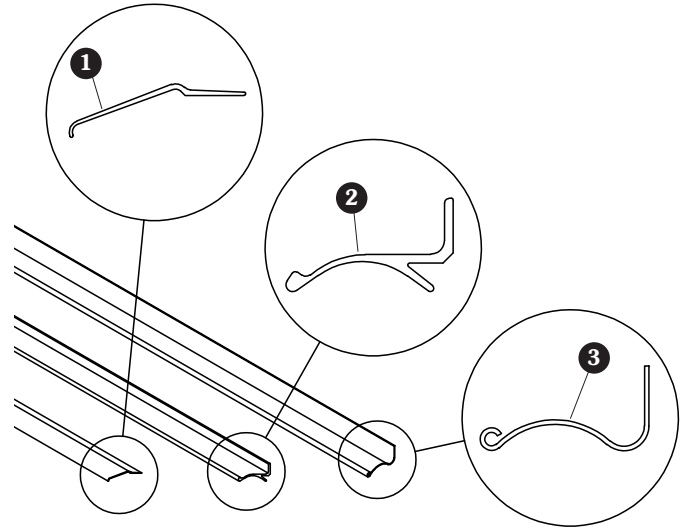
TARP STOPS

Item	Part #	Description
	1111092	Standard Tarp Stop Kit
	1111093	Offset Tarp Stop Kit
	1111096	Recessed Tarp Stop Kit
	1111094	Easy-Off Aluminum Tarp Stop Kit
	1111095	Easy-Off Aluminum 6" Offset Tarp Stop Kit
	1114047	Easy-Off Flexible Tarp Stop Kit
	1114388	Easy-Off Flexible 6" Offset Tarp Stop Kit
	1124768	Easy-Off Aluminum Tarp Stop Assembly
	1124771	Easy-Off Aluminum 6" Offset Tarp Stop Assembly
	1114017	Easy-Off Flexible Tarp Stop Assembly
	1114515	Easy-Off Flexible 6" Offset Tarp Stop Assembly
	1118389	Bowtie Cotter Pin/Ring Assembly
1.	1700729	Protective Cap
2.	1100049	Standard Tarp Stop
3.	1100392	Offset Tarp Stop
4.	1105163	Recessed Tarp Stop
5.	1700400	Self-Tapping Screw - 3/8" x 1"
6.	1700434	Lock Washer - 3/8"
7.	1700407	Nut - 3/8"
8.	1100814	Tarp Stop Bracket
9.	1704380	Bowtie Cotter Pin
10.	1115217	Easy-Off Flexible 6" Offset Tarp Stop Upright w/Embedded Safety Plate
11.	1115216	Easy-Off Flexible Tarp Stop Upright w/Embedded Safety Plate
12.	1100833	Easy-Off Tarp Stop Body
13.	1703604	Clevis Pin - 5/16" x 2 7/8"
14.	1705454	Easy-Off Alum. (Cast) 6" Offset Tarp Stop Upright
15.	1705775	Easy-Off Aluminum (Cast) Tarp Stop Upright



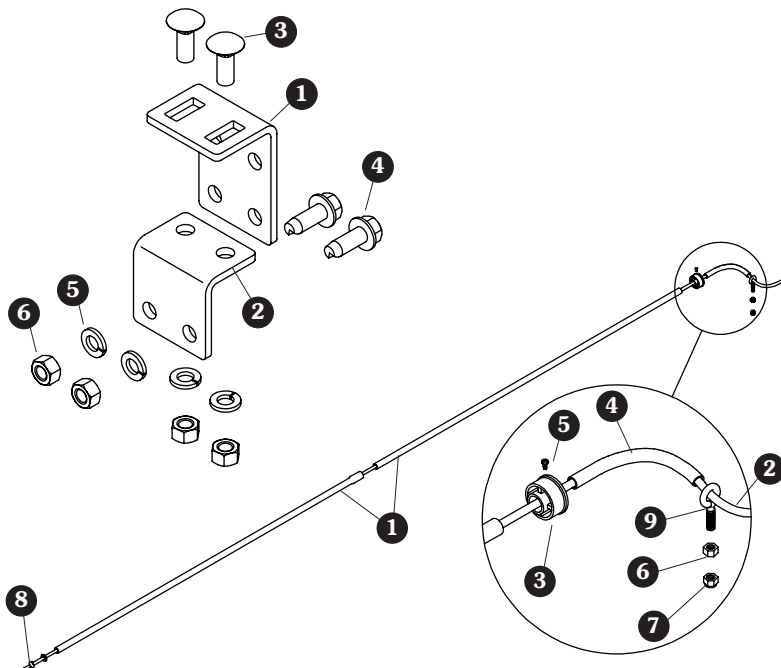
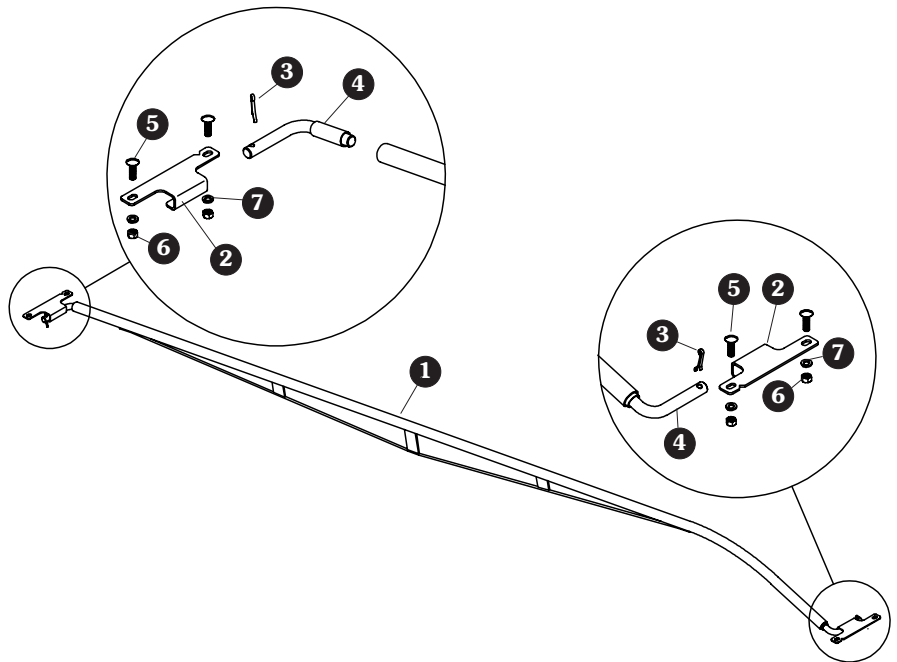
LATCHPLATES

Item	Part #	Description
1.	1100370	Aluminum Top-Mount Latchplate - 4'
	1100369	Aluminum Top-Mount Latchplate - 6'
	1100368	Aluminum Top-Mount Latchplate - 8'
2.	1100749	Aluminum Side-Mount Latchplate - 4'
	1700802	Aluminum Side-Mount Latchplate - 6'
	1700522	Aluminum Side-Mount Latchplate - 8'
3.	1701546	Galvanized Side-Mount Latchplate - 4'
	1113005	Galvanized Side-Mount Latchplate - 6'
	1701547	Galvanized Side-Mount Latchplate - 8'



ADJUSTABLE OFFSET BRACKETS

Item	Part #	Description
	1121506	Adjustable Offset Bracket Kit - Latchplate/Tarp Stop
1.	1121507	Adjustable Offset Bracket - Latchplate/Tarp Stop - Slider
2.	1121508	Adjustable Offset Bracket - Latchplate/Tarp Stop - Fixed
3.	1702522	Carriage Bolt - 3/8" x 1"
4.	1700400	Self-Tapping Screw - 3/8" x 1"
5.	1700434	Lock Washer - 3/8"
6.	1700407	Hex Nut - 3/8"

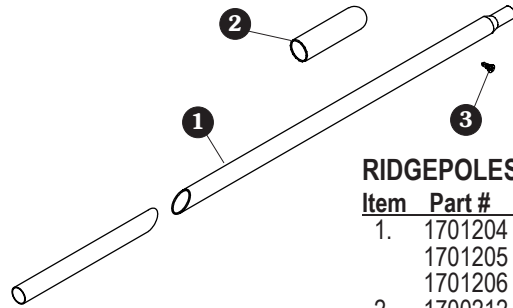


STRETCH CORD RETURNS

Item	Part #	Description
	1114359	Front Stretch Cord Roll Return Kit
	1114361	X-Wide Front Stretch Cord Roll Return Kit
1.	1111067	Roll Return Pipe Set
	1115041	X-Wide Roll Return Pipe Set - 3 Pc.
2.	1114360	Stretch Cord Kit - 11 1/2'
	1114362	Stretch Cord Kit - 16 1/2'
	1703335	Stretch Cord - 300'
3.	1100138	Nylon End Plug
4.	1107680	Roll Return Cord Cover
5.	1704743	Self-Drilling Screw - #10 x 1/2"
6.	1700411	Hex Nut - 5/16"
7.	1700419	Nylon Lock Nut - 5/16"
8.	1703373	Flat Washer - 1/2"
9.	1700717	Eyebolt - 5/16" x 7/8" Thread

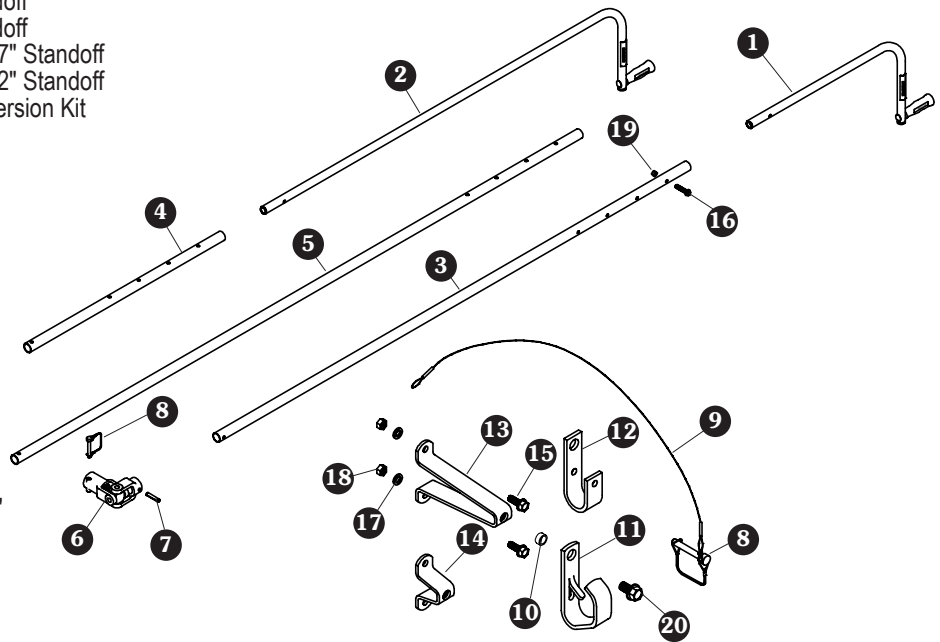
CRANK ARMS & CRANK RETAINERS

Item	Part #	Description
	1100816	Standard Shur-Lok® Crank Arm Kit
	1100813	Long Shur-Lok® Crank Arm Kit
	1116110	Crank Handle Kit
	1100386	Crank Retainer Kit w/7" Standoff
	1100388	Crank Retainer Kit w/2" Standoff
	1107047	Pinless Crank Retainer Kit w/7" Standoff
	1107048	Pinless Crank Retainer Kit w/2" Standoff
	1107052	Pinless Crank Retainer Conversion Kit
1.	1100171	Standard Crank Arm - 24"
2.	1100069	Long Crank Arm - 60"
3.	1100028	Crank Extension - 80"
4.	1100687	Crank Extension - 33"
5.	1106449	Crank Extension - 96"
6.	1701243	Splined U-Joint
7.	1700443	Spring Pin - 3/8" x 2"
8.	1700526	Wire Lock Pin
9.	1100574	Cable w/Snap
10.	1100306	Retainer Bushing
11.	1107049	Pinless Crank Retainer
12.	1100040	Crank Retainer J-Hook
13.	1100033	Crank Retainer 7" Standoff
14.	1100137	Crank Retainer 2" Standoff
15.	1700400	Self-Tapping Screw - 3/8" x 1"
16.	1700369	Cap Screw - 3/8" x 1 3/4"
17.	1700434	Lock Washer - 3/8"
18.	1700407	Hex Nut - 3/8"
19.	1700418	Centerlock Nut - 3/8"
20.	1702996	Cap Screw - 1/2" x 1 1/4"



RIDGEPOLES

Item	Part #	Description
1.	1701204	Ridgepole Tube - 16'
	1701205	Ridgepole Tube - 20'
	1701206	Ridgepole Tube - 24'
2.	1700212	Protective Cap
3.	1704768	Self-Drilling Screw - 1/4" x 3/4"



MAINTENANCE & OPERATION

MAINTENANCE SCHEDULE

Every 2 to 4 Weeks:

1. Inspect tarp - repair any tears, cuts or worn areas.
2. Inspect hardware - securely tighten any loose fasteners.

OPERATING INSTRUCTIONS

To Uncover Load:

1. Release crank from crank retainer.
2. Turn crank clockwise (counter-clockwise for reverse roll) until tarp has rolled up against tarp stops.
3. Place crank back into crank retainer.

To Cover Load:

1. Release crank from crank retainer.
2. Turn crank counter-clockwise (clockwise for reverse roll) until tarp is unrolled over edge of trailer.
3. Continue cranking to roll tarp up under latchplate.
4. Bring crank arm down to a vertical position.
5. Swing crank arm up and place into crank retainer.

Close cover at all times, except when loading or unloading, to extend the life of your Shur-Lok® system.

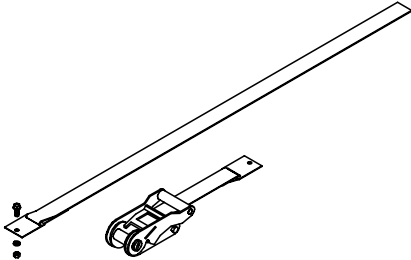
Open cover while unloading box. Unloading box with cover closed will create a vacuum which could cause system damage.

OPERATING SAFETY INSTRUCTIONS

1. **Keep body and clothing clear of moving parts.**
2. **Hold crank firmly with both hands while opening and closing tarp.**
3. **Keep 40 to 60 lbs. of tension in crank retainer or excessive tarp wear may occur.**
4. **Secure U-joint on crank arm to splined shaft on roll tube with wire lock pin before opening or closing tarp.**
5. **Do not drive vehicle at highway speeds with tarp open.**

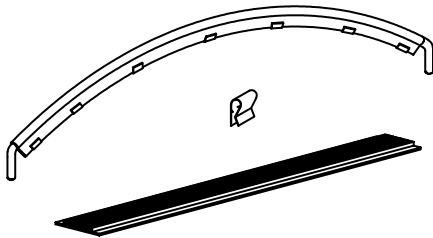
2" RIDGE STRAP

Designed to resist stretching during weather changes. Two 2" ridge straps offer twice the tarp support while reducing grain splatter by allowing you to pour grain between them.



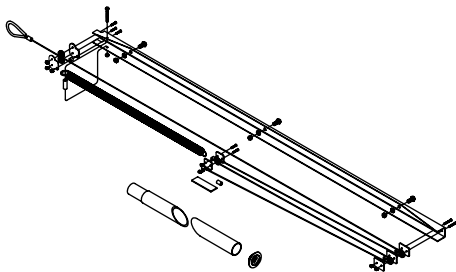
STANDARD & X-WIDE BOW COVERS

Vinyl-coated compound wraps over bows and clips underneath. Reduces tarp wear and grain splatter, prevents rust and provides traction. Extra-wide bow covers also available.



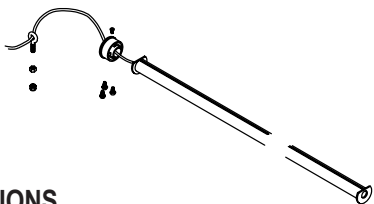
STANDARD & X-WIDE CABLE RETURN - FRONT & REAR

Uses a non-stretch cable and heavy-duty internal tension spring-and-pulley system. Exactly what cold climates demand.



SHUR-RETURN™

Carries a lifetime guarantee and features steel construction, a steel tension spring and 1/4" nylon rope. This ensures dependable operation in the coldest of climates.

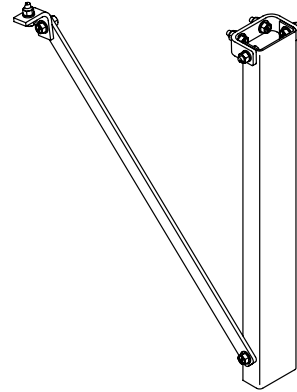


TARP OPTIONS

22-oz. heavy-duty fabric, multicolored tarps, personalized tarps, reinforcements, extra length or width, 13 vibrant colors available.

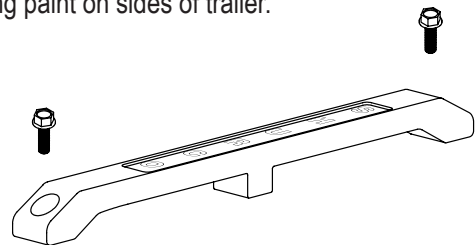
UNIVERSAL CRANK RETAINER SUPPORT KIT

Universal crank retainer support kit allows you to efficiently position the crank in non-vertical configurations.



ROLL TUBE DEFLECTOR

Roll tube deflectors fasten to side of box, keeping roll tube from damaging paint on sides of trailer.



PROFESSIONAL TARP REPAIR KIT

Repair your tarp using the heat seal method. No messy adhesives or solvents. Kit includes Wagner heat gun, scissors, roller, 12' of 18-oz. or 22-oz. tarp (specify color) and instructions.



STANDARD TARP REPAIR KIT

Shur-Co's standard tarp repair kit includes adhesive, cleaner, 10' of tarp (specify color) and instructions.



MORE QUALITY PRODUCTS FROM SHUR-CO®

- **Genuine Replacement Tarps**
- **Genuine Replacement Parts**

- **Agriculture Products**
 - *The Original Shur-Lok®*
 - **Turning Point™ Bow**
 - **Shur-Lok® Junior**
 - **Premium Belt 'n Ratchet**
 - **Cable-Lok™**
 - **Tater-Top™**

- **SMARTrailer™ Accessories for Agriculture Products**
 - **SMART2™ Remote**
 - **SMART3™ Remote**
 - **4500 Series HD Electric**
 - **Electric Shur-Lok®**
 - **AutoTrap™ Hopper Opener**
 - **ProTrap® Hopper Opener**
 - **Electric Gate & Hoist**
 - **DriveMaxx™ Auger Drive**
 - **Electric Farm Swing Gate**
 - **LiteALL™ Work Lights**
 - **Cable-Lok™ Electric Upgrade**
 - **Electric Turning Point™ Bow**
 - **Solar Power Pack**

- **Construction Products**
 - *The Original Shur-Lok®*
 - **Turning Point™ Bow**
 - **Shur-Trak II™**
 - **IronSide II™**
 - **Shur-Matic™**

- **SMARTrailer™ Accessories for Construction Products**
 - **4500 Series HD Electric w/Gate Flex™**
 - **Shur-Trak II™ Electric Upgrade**
 - **Electric Turning Point™ Bow**
 - **Solar Power Pack**

- **Custom Products**
 - **Fitted Truck Covers**
 - **Flat Utility Tarps**
 - **Bean Drill Covers**
 - **Gustbuster™ Tarp Cords**
 - **SMARTwire™**

TARPING SYSTEMS & ACCESSORIES

