



**OPERATOR'S MANUAL
SET-UP INSTRUCTIONS
&
PARTS LIST**

**SHUR-LOK ROLL TARP C/W STEEL ENDS
SET-UP INSTRUCTIONS**



MARKET FARM EQUIPMENT LIMITED, R.R.#1 DASHWOOD, ONTARIO, CANADA

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www.marketfarmequipment.com

"SERVING THE FARM INDUSTRY SINCE 1962"

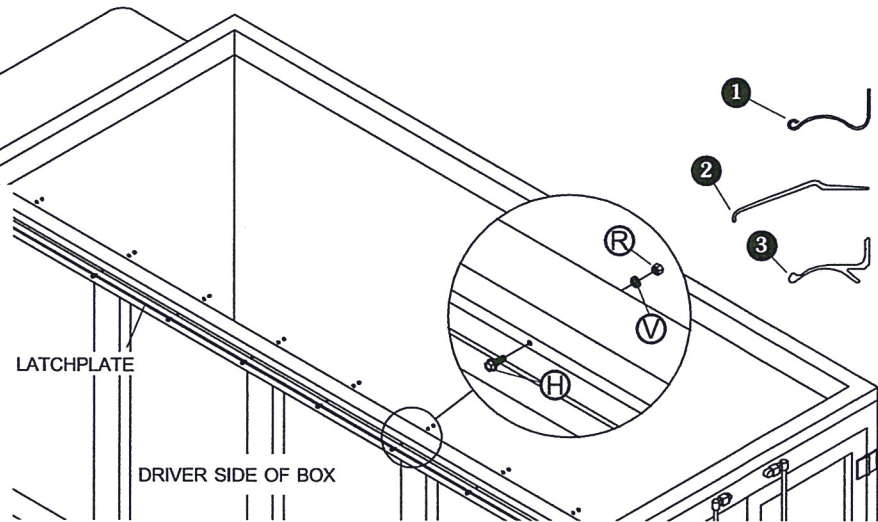
**THIS IS A CONDENSED SET OF INSTRUCTIONS
FOR THE ROLL TARP C/W STEEL ENDS THAT
IS SUPPLIED BY MARKET FARM EQUIPMENT
LTD. PLEASE KEEP THE ORIGINAL “SHUR-LOK
INSTRUCTIONS” FOR PROPER OPERATION
INSTRUCTIONS, PARTS AND WARRANTY
INFORMATION.**

1ST STEP

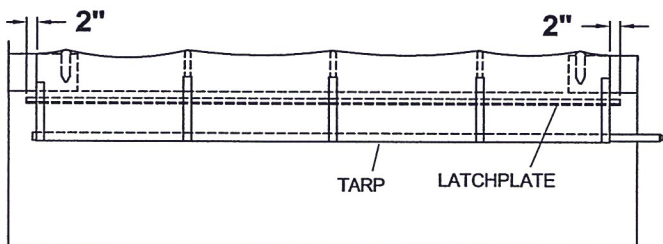
Latchplates

P/N 1100193 Rev. DD

Item	Part #	Description
1.	1704540	Galv. Side Mount Latchplate - 4'
	1449885	Galv. Side Mount Latchplate - 6'
	1704547	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'
H.	1700400	Self-Tapping Screw - 3/8" x 1"
V.	1700434	Lock Washer - 3/8"
R.	1700407	Hex Nut - 3/8"

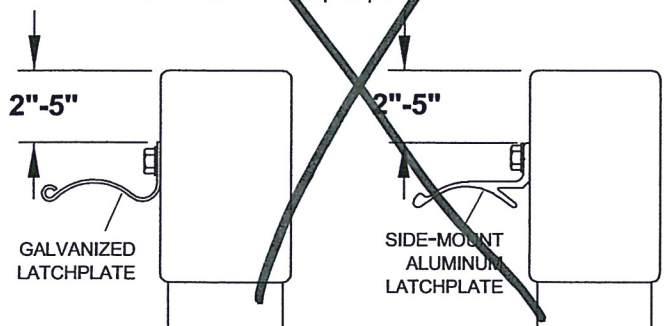


STEP 1: Adapt latchplate pieces to extend 2" past tarp at front and rear of tarp.



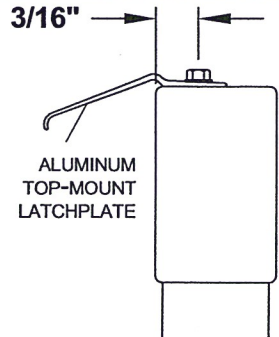
NOTE: If installing system to open from driver side of box, locate latchplate on passenger side. Latchplate alignment must be true.

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.

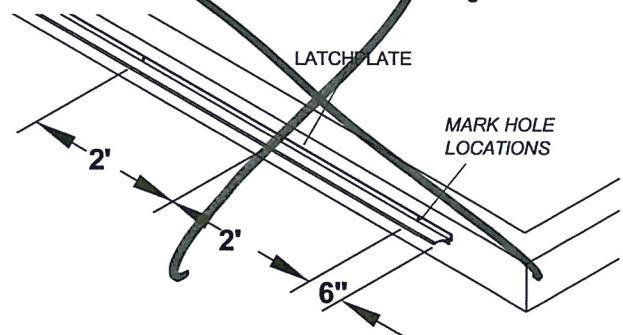


STEP 2B: Top-mount latchplate. 1 3/16"

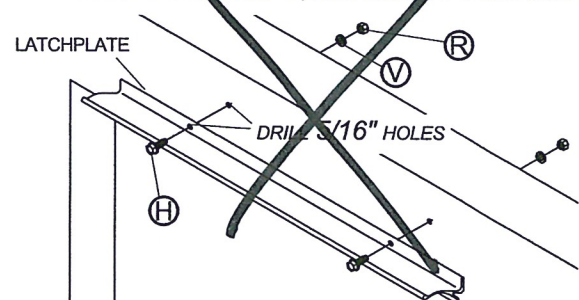
Install in the same way as side-mount latchplate, except fasten over top rail, aligning screws about 1 3/16" from edge of rail.



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



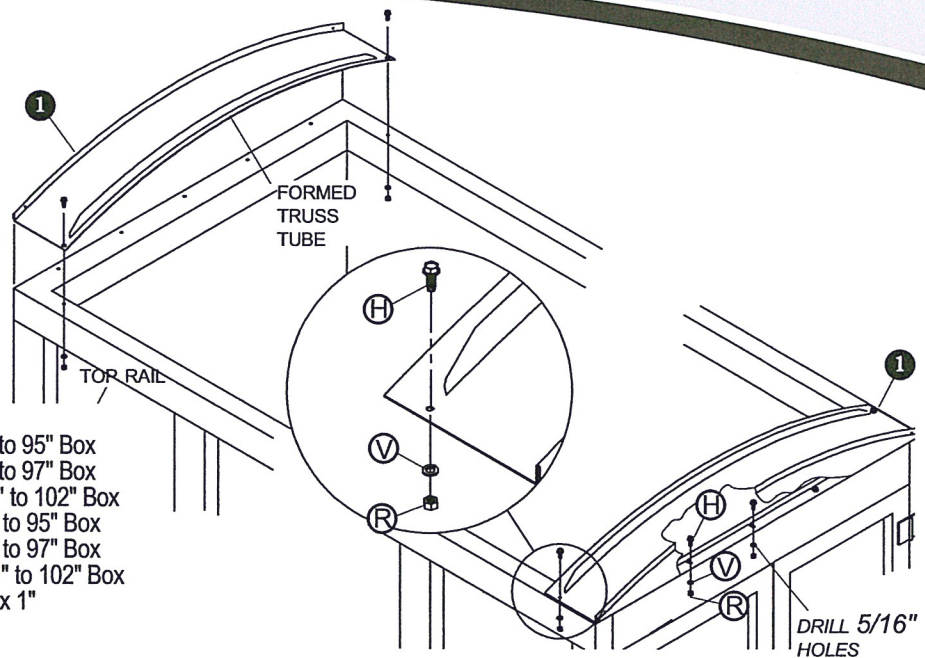
STEP 4: Drill 5/16" pilot holes through latchplate and box. Fasten with screws (H), lock washers (V) and nuts (R).



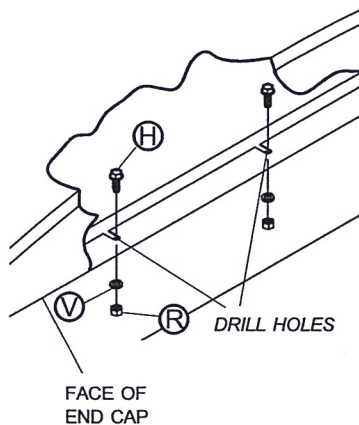
NOTE: End caps supplied with kit may need slight modifications to fit box.

TIP: Seal cap to top rail with bead of caulk or apply rubber seal to improve watertightness.

Item	Part #	Description
1.	1108977	Galv. Low-Rise Cap - 94" to 95" Box
	1108980	Galv. Low-Rise Cap - 96" to 97" Box
	1108983	Galv. Low-Rise Cap - 101" to 102" Box
	1108986	Galv. High-Rise Cap - 94" to 95" Box
	1108989	Galv. High-Rise Cap - 96" to 97" Box
	1108992	Galv. High-Rise Cap - 101" to 102" Box
H.	1700400	Self-Tapping Screw - 3/8" x 1"
R.	1700407	Hex Nut - 3/8"
V.	1700434	Lock Washer - 3/8"



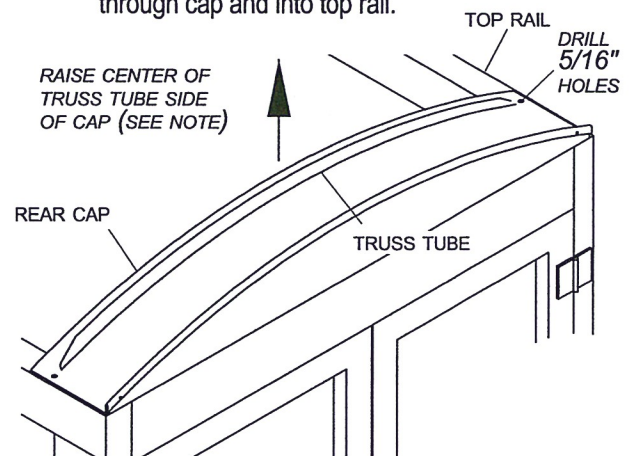
STEP 1: Center end cap on box and mark hole locations on top rail according to slots in cap.



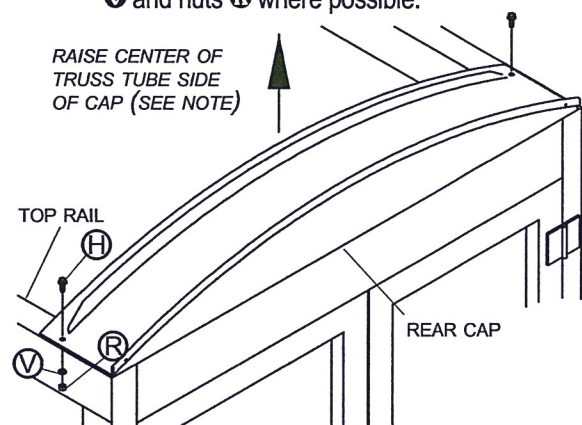
STEP 2: Drill 5/16" holes into marked locations on top rail. Fasten with screws ①. Use lock washers ② and nuts ③ where possible.

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.

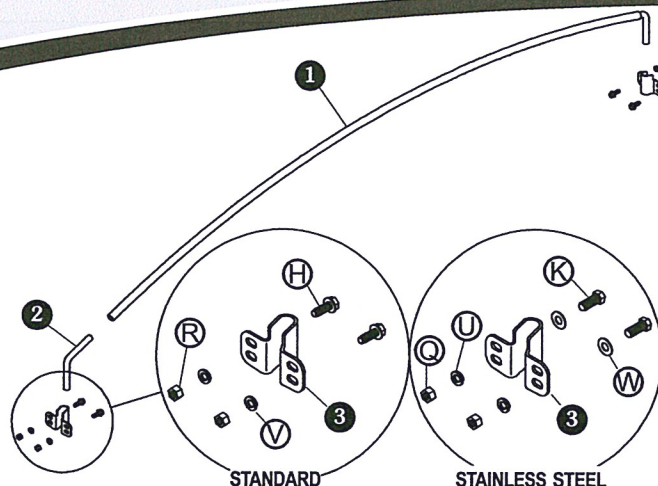
STEP 3: Drill two 5/16" holes as close as possible to truss tube, through cap and into top rail.



STEP 4: Fasten cap to top rail with screws ①. Use lock washers ② and nuts ③ where possible.



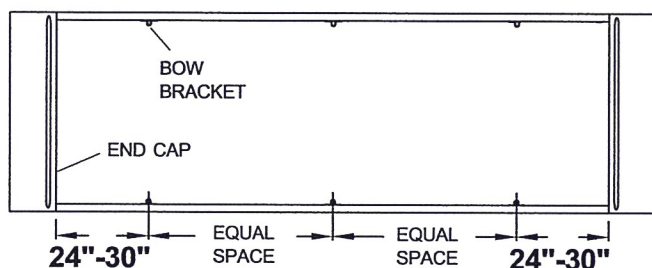
Box Length	Bow Qty.
10'-14'	2
15'-18'	3
19'-22'	4
23'-26'	5
27'-30'	6
31'-34'	7
35'-38'	8
39'-43'	9
44'-46'	10
47'-50'	11
51'-54'	12



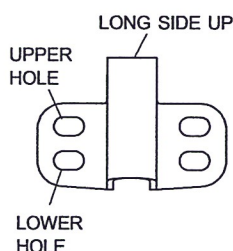
Item	Part #	Description
1.	*	Standard & SS Low Rise Bow
	*	Standard & SS High Rise Bow
	1109149	Standard Flat Bow
2.	1100695	Standard Low-Rise Bow Shank
	1119766	Stainless Low-Rise Bow Shank
	1106925	Standard High-Rise Bow Shank
	1116754	Stainless High-Rise Bow Shank
	1109150	Standard Flat Bow Shank
3.	1120836	Single Bow Bracket
	1120975	Stainless Single Bow Bracket
H.	1700400	Self-Tapping Screw - 3/8" x 1"
K.	1703579	Stainless Cap Screw - 3/8" x 1"
Q.	1200999	Stainless Hex Nut - 3/8"
R.	1700407	Hex Nut - 3/8"
U.	1703576	Stainless Lock Washer - 3/8"
V.	1700434	Lock Washer - 3/8"
W.	1703577	Stainless Flat Washer - 3/8"

NOTE: Bows are not designed for use as structural or side wall support.

STEP 1: Mark bow bracket locations on top rails between end caps as shown, aligning brackets on opposite sides of box.

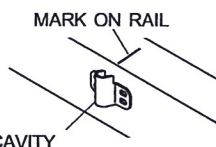


STEP 2: 1 1/2"- 3" Wide rails. Position single bow brackets with long side up and fasten through upper holes.

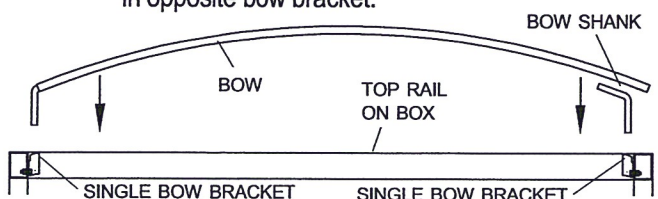


3"-6" Wide rails. Position single bow brackets with long side up and fasten through lower holes.

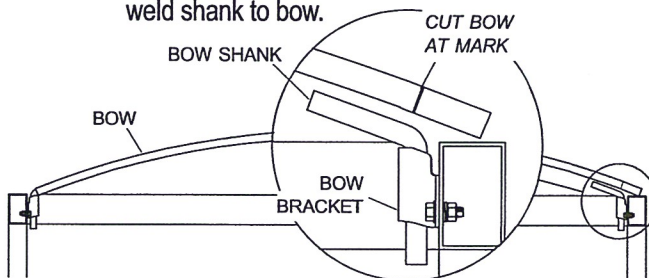
STEP 3: Align center of brackets with mark. Clamp brackets to rails.



STEP 4: Place bow into bow bracket. Place loose bow shank in opposite bow bracket.

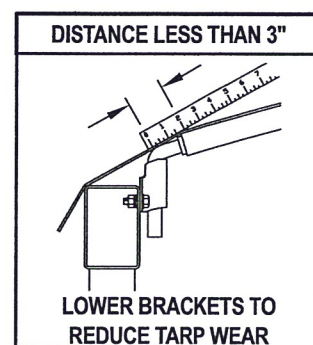
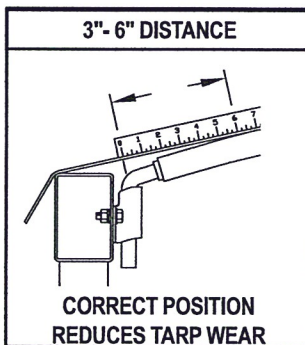


STEP 5: Align bow with bow shank. Mark and cut bow at point where bend starts on shank. Grind edges smooth and weld shank to bow.

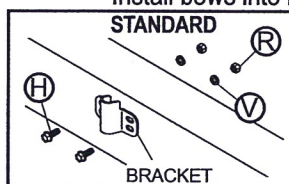


NOTE: Shanks must be welded to bows.

STEP 6: Adjust bow brackets vertically to allow 3" to 6" between bend in bow shank and point where tarp will contact bow.

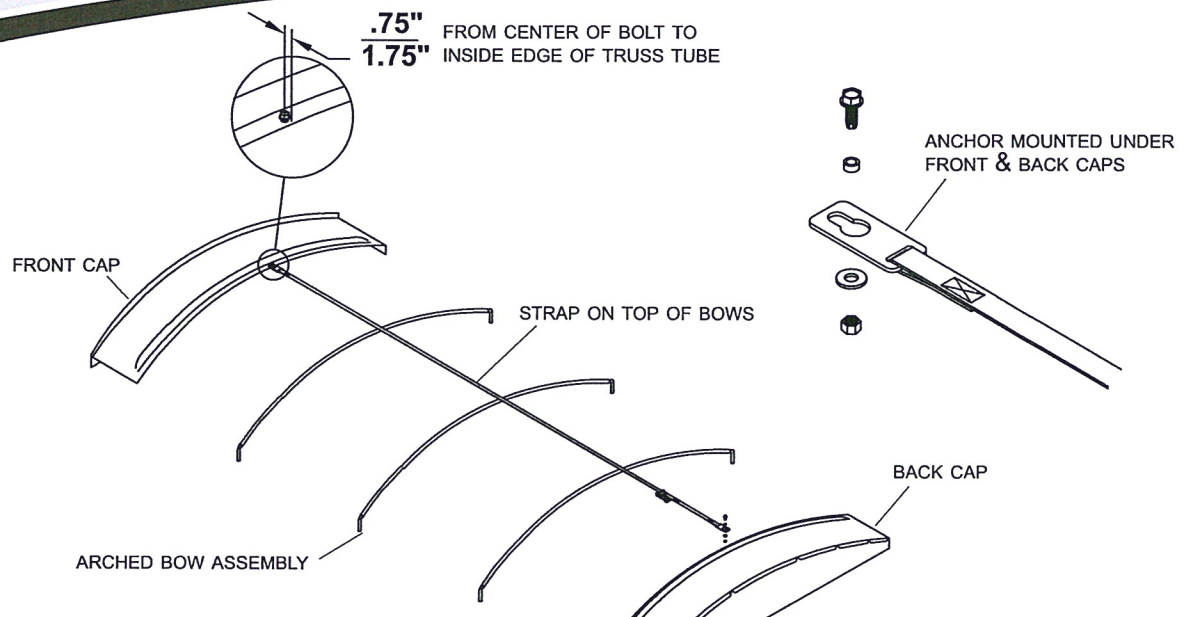


STEP 7: Mark and drill 5/16" holes, mount brackets with screws H, washers V and nuts Q (screws K, washers U, washers V and nuts Q for stainless steel). Install bows into bow brackets.



Installation Instructions - Ridge Strap

P/N 1101706 Rev. B



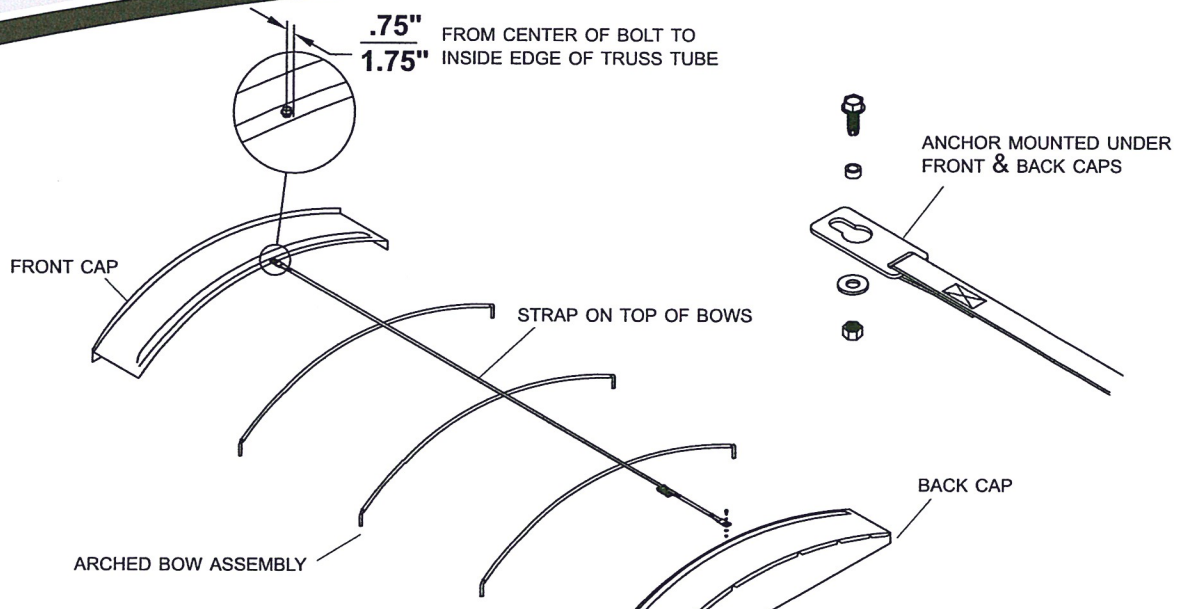
PO BOX 713 ■ 2309 SHUR-LOK STREET
YANKTON, SOUTH DAKOTA 57078-0713
PH. 1-800-474-8756 ■ FAX 605-665-0501



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Installation Instructions - Ridge Strap

P/N 1101706 Rev. B



PO BOX 713 ■ 2309 SHUR-LOK STREET
YANKTON, SOUTH DAKOTA 57078-0713
PH. 1-800-474-8756 ■ FAX 605-665-0501

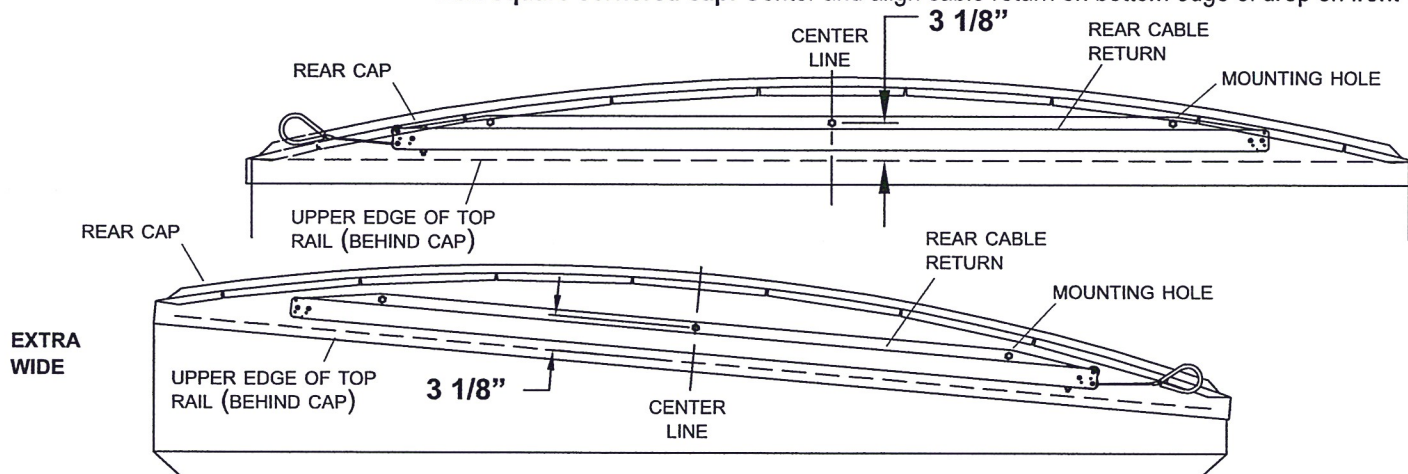


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INSTALLATION PROCEDURE:

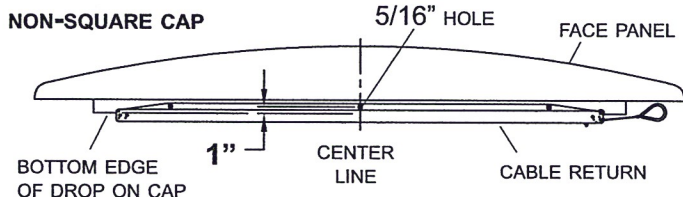
Square-cornered or extra-wide cap: Center and align cable return on face panel.

Non-square cornered cap: Center and align cable return on bottom edge of drop on front cap.



STEP 1: Mark face panel on center line 3 1/8" above upper edge of top rail.

Non-square cap: Mark point on center line of face panel 1" above bottom edge of cap.



STEP 2: Center punch and drill 5/16" hole at mark.

STEP 3: Align center mounting hole on return to drilled hole in cap and fasten with 3/8" x 1" self-tapping screw, lock washer and hex nut.

Extra wide: Align center mounting hole on back plate and on return with drilled hole in cap and fasten with 3/8" x 1" self-tapping screw, lock washer and hex nut.

STEP 4: Align cable return with top rail on box.

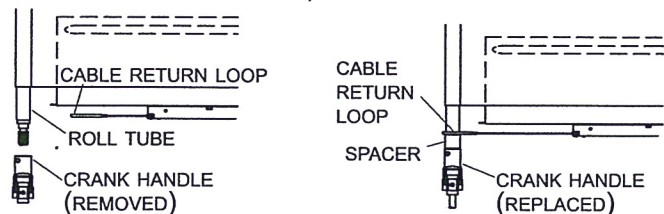
NOTE: Cable return must be parallel with top rail.

STEP 5: Mark other mounting holes and repeat steps 2 and 3.

STEP 6: Release tarp from latchplate and let hang over side of trailer.

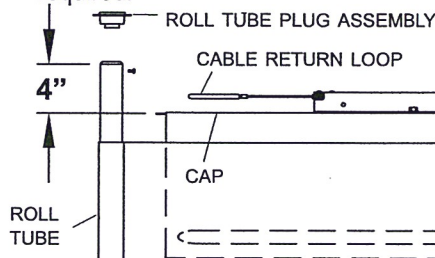
STEP 7: Remove crank handle.

STEP 8: Slide cable return loop over roll tube and reinstall crank handle.



NOTE: Steps 9 to 11 for front return only.

STEP 9: Extend roll tube at least 4" beyond edge of cap. Roll tube (P/N 1111719) may be used if additional length is required.



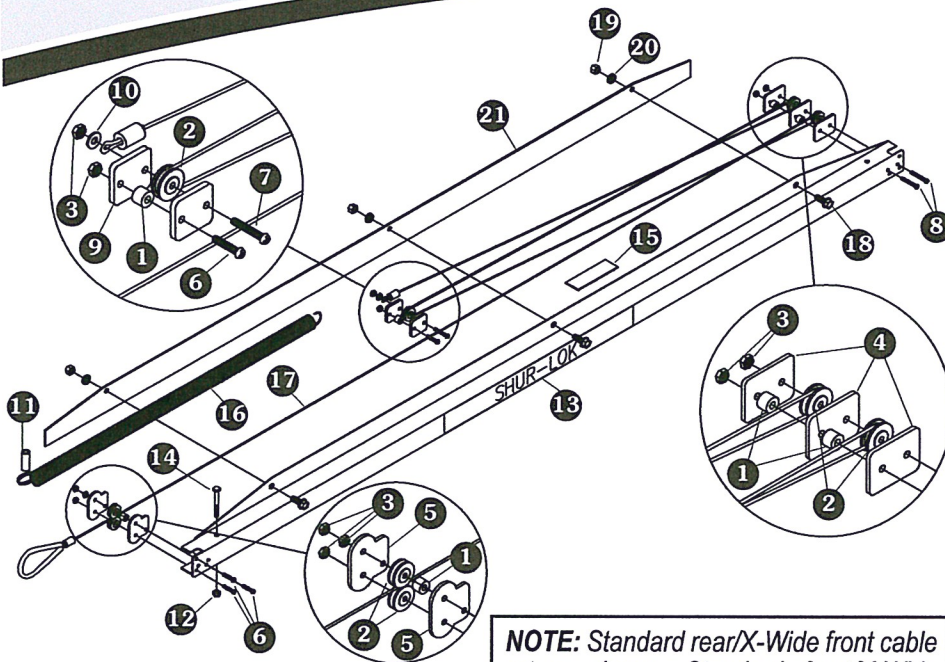
STEP 10: Slide cable return loop over roll tube.

STEP 11: Press fit roll tube plug assembly into roll tube.

SEE PARTS LIST ON OTHER SIDE

NOTES

1. A spacer may be installed on roll tube to separate cable loop from weld and/or to bring cable into alignment with pulleys. Shur-Co® recommends using 2-SCH 40 PVC pipe cut to length and deburred.
2. To ensure maximum cable life, adjust cable as necessary to prevent cable from rubbing on any obstructions.
3. Inspect roll tube for weld splatter or debris, grinding smooth, if necessary.
4. Shur-Co® recommends replacing cable assembly every two (2) years for optimum performance.
5. On existing systems, be sure roll tube extends at least 4" beyond front of trailer. Optional roll tube (P/N 1111719) may be required.
6. If mounting on extra-wide flat cap, additional bracketry may be required. Distance from top of top rail to center of hole must be at least 2".

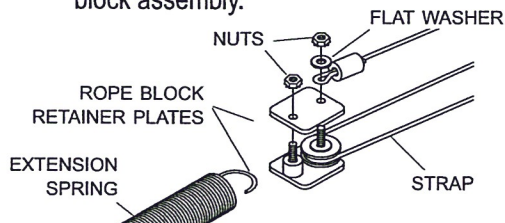


NOTE: Standard rear/X-Wide front cable return shown. Standard front/X-Wide rear cable return is reversed.

Item	Part #	Description
	1111121	Rear Cable Return Kit
	1111122	Front Cable Return Kit
	1114913	X-Wide Rear Cable Return Kit
	1114914	X-Wide Front Cable Return Kit
1.	1111056	Spacer Washer - 1/2" x 3/8"
2.	1703006	Pulley
3.	1702653	Nut - #10 w/Tooth
4.	1110913	Rear Retainer Plate
5.	1114691	Front Retainer Plate
6.	1702654	Machine Screw - #10 x 1"
7.	1702655	Machine Screw - #10 x 1 1/4"
8.	1702656	Machine Screw - #10 x 1 1/2"
9.	1112997	Rope Block Retainer Plate
10.	1111054	Flat Washer - #10
11.	1115014	Spacer Washer - .54" x 1 5/8"
12.	1701543	Nylon Lock Nut - 1/4"
13.	1114728	Cable Return Housing
	1112902	Cable Return Housing - X-Wide
14.	1702672	Cap Screw - 1/4" x 2 1/4"
15.	1115206	Velcro® Hook Fastener
16.	1702657	Extension Spring
17.	1114582	Replacement Strap
	1114932	Replacement Strap - X-Wide
18.	1700400	Self-Tapping Screw - 3/8"
19.	1700407	Hex Nut - 3/8"
20.	1700434	Lock Washer - 3/8"
21.	1112904	Back Plate - X-Wide

STEP 1: Remove end loop on cable return from roll tube. Remove screws and entire cable return system from end cap.

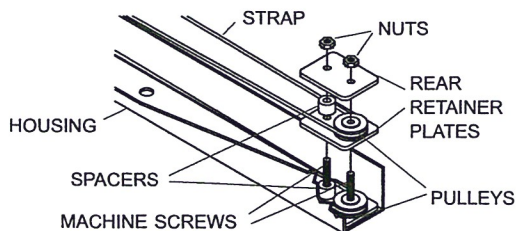
STEP 2: Carefully release tension from cable and extension spring. Hold spring with vise grips and remove nuts from rope block assembly.



CAUTION

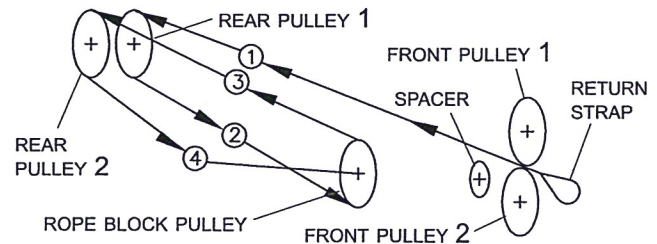
Spring and cable are under tension. Maintain control of spring while releasing tension to prevent personal injury.

STEP 3: Remove nuts from front and rear retainer plates. Remove retainer plates as required.



STEP 4: Remove and replace damaged cable with replacement cable assembly according to the wire routing diagram shown below.

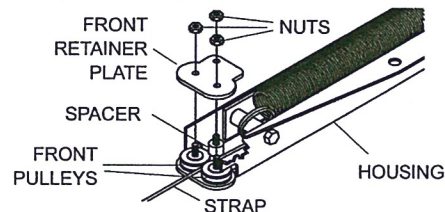
NOTE: Strap must go OVER spacer in order for system to work.



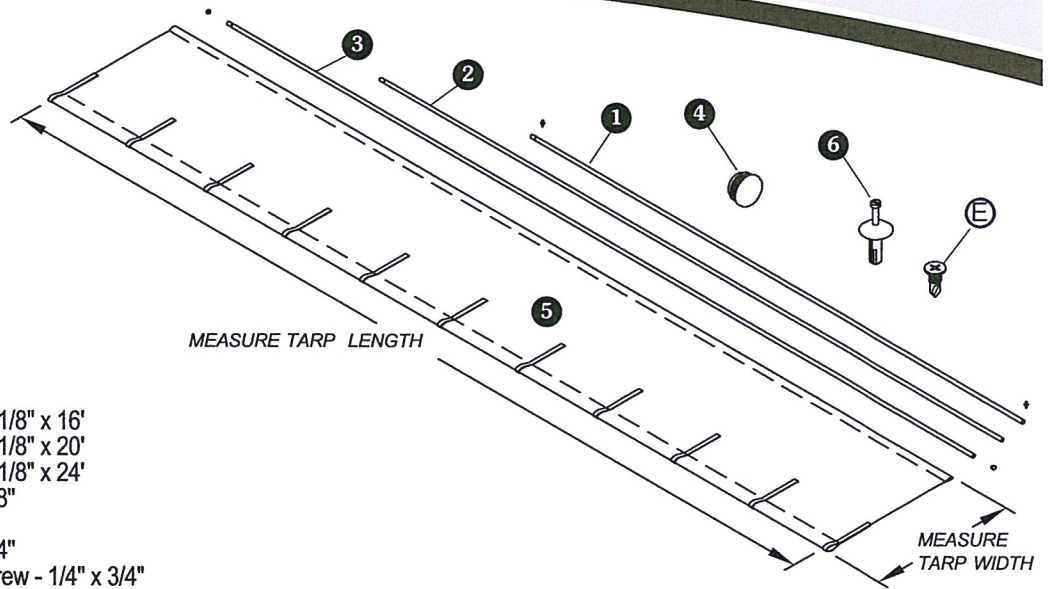
WIRE ROUTING

STEP 5: Reinstall retainer plates and rope block plates. Attach nuts and tighten securely.

STEP 6: Reinstall cable return system on end cap and slide end loop on cable return over roll tube.




NOTE: Test operation. Inspect system periodically. Replace damaged or worn parts to prevent personal injury or system failure.

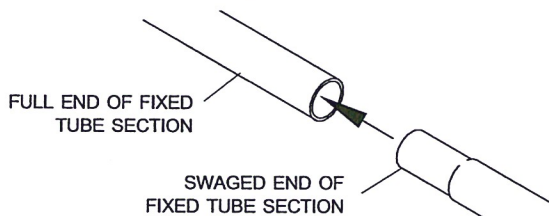


Item	Part #	Description
1.	1700051	Fixed Tube - 1 1/8" x 16'
2.	1700049	Fixed Tube - 1 1/8" x 20'
3.	1701428	Fixed Tube - 1 1/8" x 24'
4.	1700523	End Plug - 1 1/8"
5.		Tarp
6.	1700474	Drive Rivet - 1/4"
E.	1704768	Self-Drilling Screw - 1/4" x 3/4"

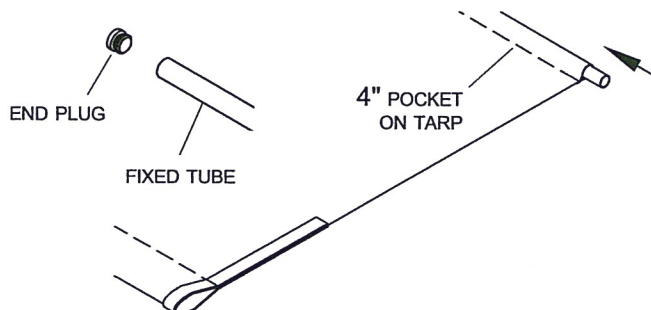
STEP 1: Open tarp and stretch tight. Measure and compare tarp measurements with those on spec sheet attached to tarp. Do not proceed with installation if tarp measurements do not match measurements specified on sheet. Call Shur-Co® or your local dealer for alterations or a replacement tarp.


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: For boxes , insert swaged end of fixed tube section into full end of second tube section. Align tubes, weld and grind smooth.

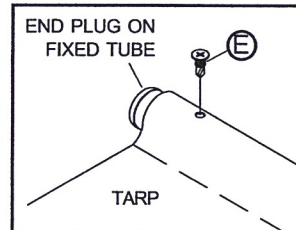


STEP 3: Install end plug into full end of tube weldment. Insert tube, end plug first, into 4" pocket on tarp.

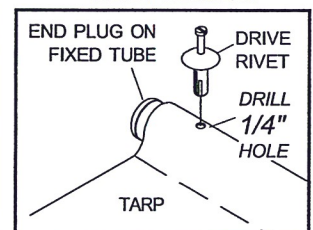



STEP 4: Extend fixed tube 1/4" past tarp edge. Fasten tarp to fixed tube with screw  or drill 1/4" hole and fasten with drive rivet.

SCREW VERSION

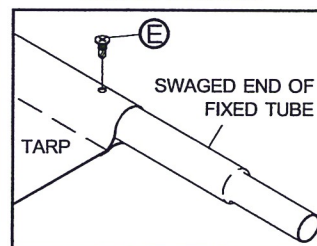


RIVET VERSION

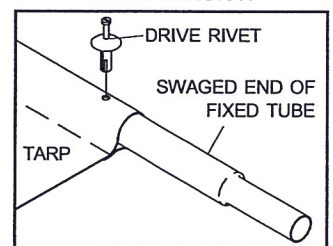


STEP 5: Stretch tarp along fixed tube and fasten with second screw  or rivet.

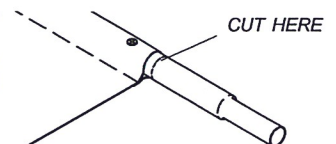
SCREW VERSION



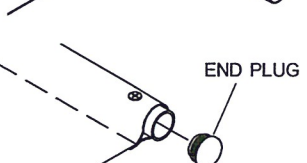
RIVET VERSION

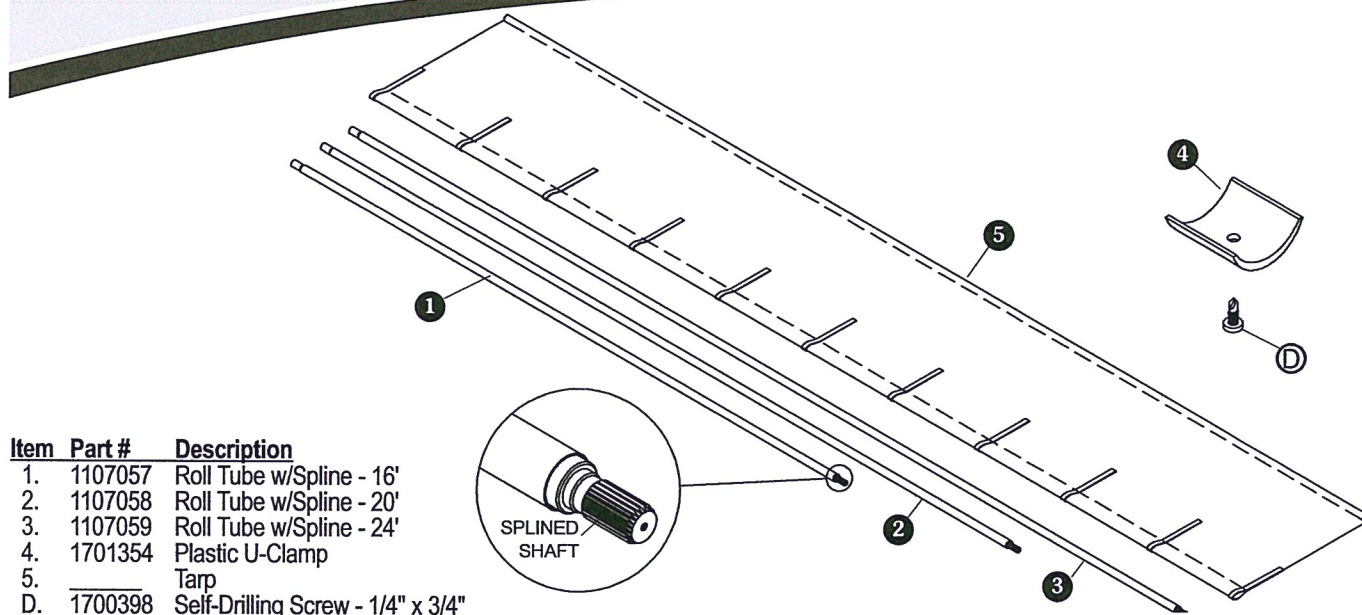


STEP 6: Cut fixed tube 1/4" past edge of tarp, removing swaged end. Grind smooth.




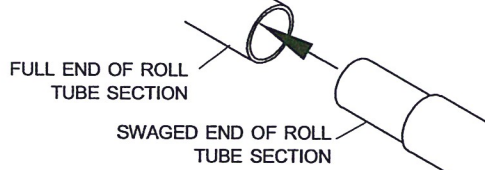
STEP 7: Insert end plug.





Item	Part #	Description
1.	1107057	Roll Tube w/Spline - 16'
2.	1107058	Roll Tube w/Spline - 20'
3.	1107059	Roll Tube w/Spline - 24'
4.	1701354	Plastic U-Clamp
5.		Tarp
D.	1700398	Self-Drilling Screw - 1/4" x 3/4"

STEP 1: For box , insert swaged end of roll tube section into full end of second tube section. Align tubes, weld and grind smooth.



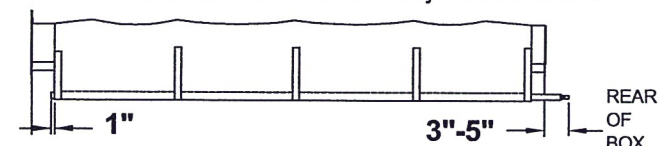
STEP 2: Cut roll tube 8" longer than tarp (14" if using fabric caps), removing swaged end. Grind edges smooth, then insert roll tube into 5" tarp pocket, with splined shaft at rear of tarp/trailer.



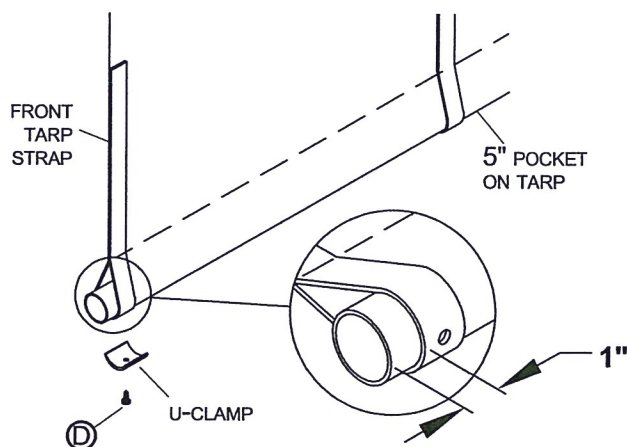
TIPS: Inflate 5" tarp pocket with air chuck while inserting roll tube. For ease of handling, wind tarp on roll tube completely before lifting tarp onto box.

STEP 3: Center tarp on box and secure tarp to box with tarp stops. See page 18 to install standard tarp stops or page 19 to install easy-off tarp stops.

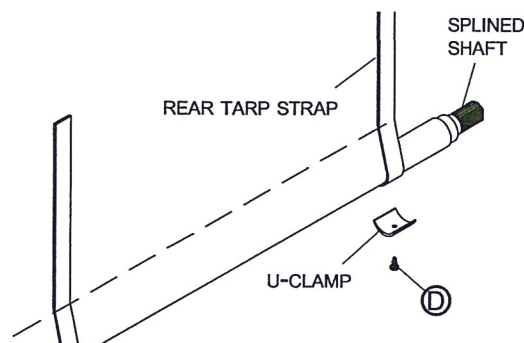
STEP 4: Align roll tube to extend 1" past front of tarp. Splined shaft must extend 3" to 5" beyond rear of box.



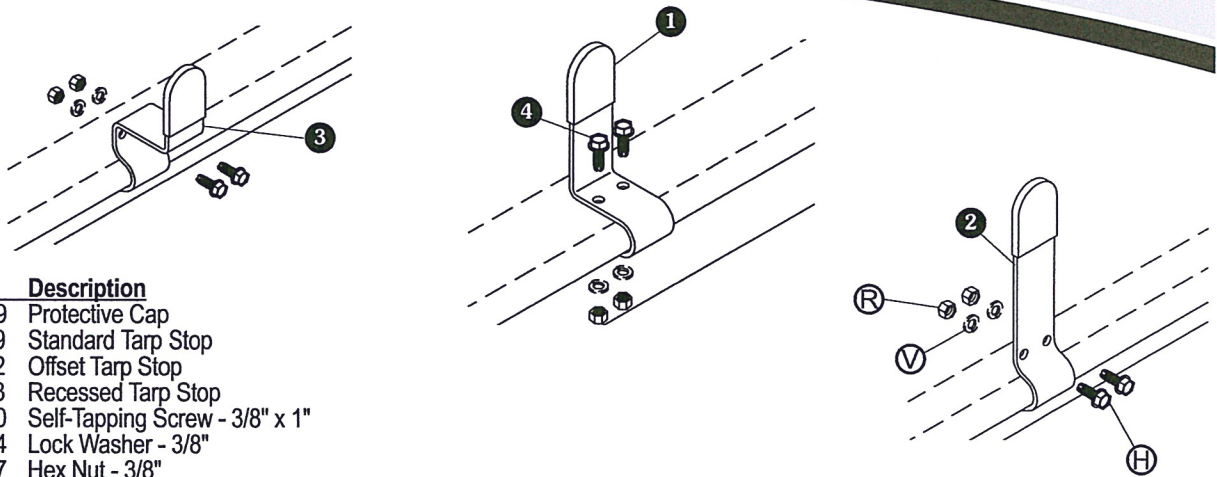
STEP 5: Center first U-clamp on front tarp strap, positioning screw D on crease at bottom of tarp pocket. Fasten U-clamp with screw D.



STEP 6: Stretch tarp along roll tube so both sides of tarp are equal. Install U-clamp on rear tarp strap.

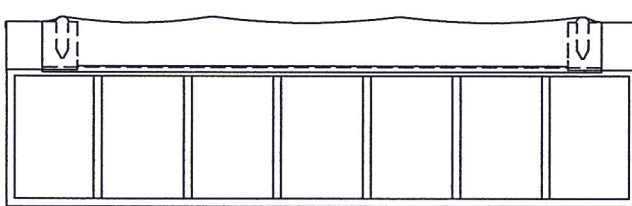


STEP 7: Install remaining U-clamps on remaining tarp straps.



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

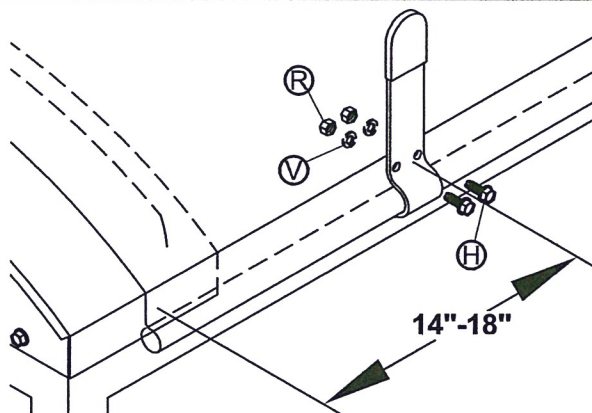
STEP 1: Center tarp on box between front and rear end caps, with fixed tube hanging about 3" below top rail on passenger side of box. Square up tarp and fixed tube.



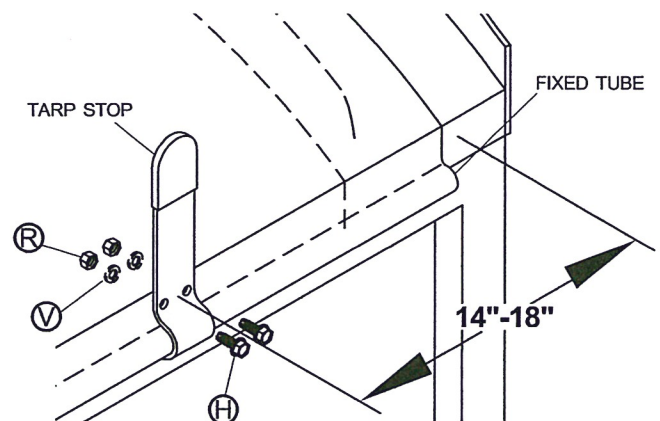
NOTE: If installing system to open from driver side of box, locate tarp stops on driver side.

STEP 2: Locate first tarp stop 14" to 18" from rear edge of tarp. Using tarp stop as guide, mark and drill holes. Place tarp stop over fixed tube and fasten to box with screws **H**, lock washers **V** and nuts **R**.

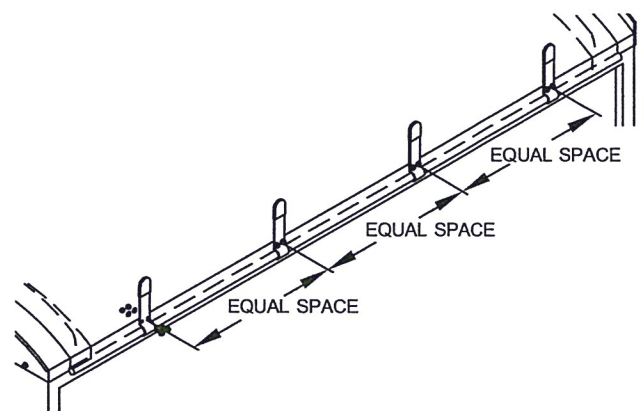
NOTE: Use washers and nuts where needed and drill 13/32" holes. If using self-tapping screws only, drill 5/16" holes.



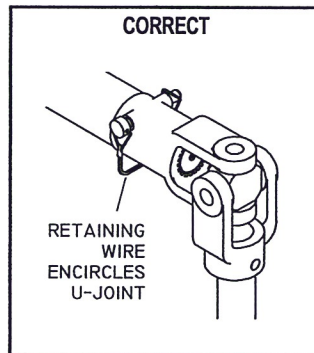
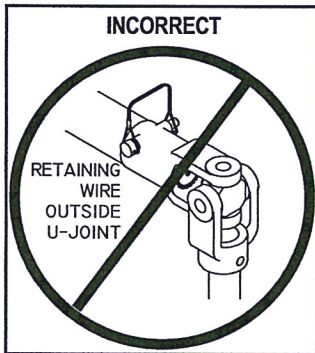
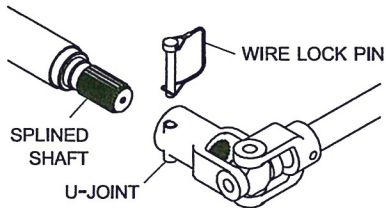
STEP 3: Square up and stretch tarp tight, then locate second tarp stop 14" to 18" from front edge of tarp. Mark and drill holes and fasten to box with screws **H**, lock washers **V** and nuts **R**.



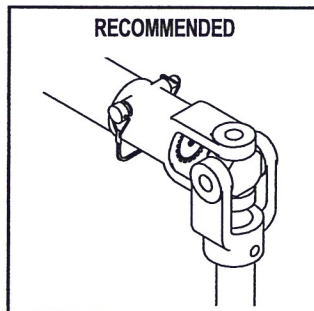
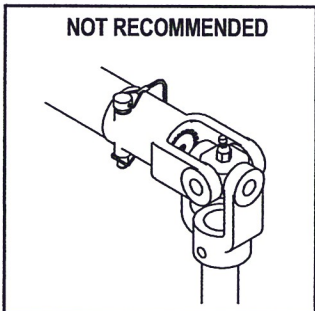
STEP 4: Vertically align and equally space remaining tarp stops. Mark and drill holes and fasten to box.



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.

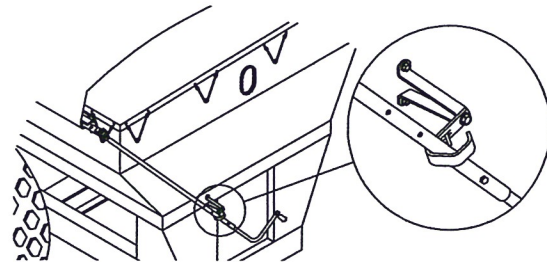


CAUTION

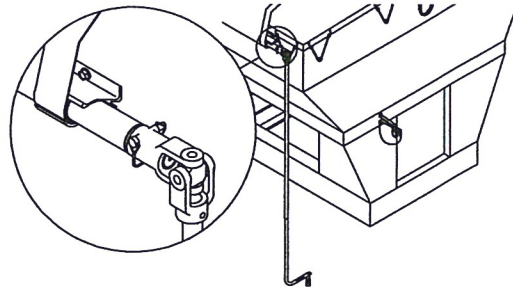
Do not open or close tarp without U-joint securely fastened to splined shaft with wire lock pin. Failure to do so could result in injury.

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.

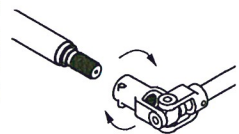


STEP 3: Hold crank handle firmly with both hands and roll tarp closed under latchplate. Bring crank handle perpendicular to ground to lock U-joint.



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



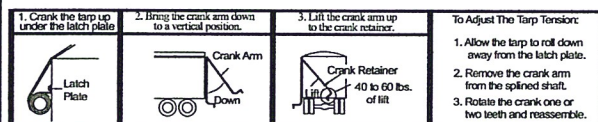
Uncontrolled crank spin. Hold crank firmly with both hands while operating. Failure to do so may result in minor or moderate injury.

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!



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

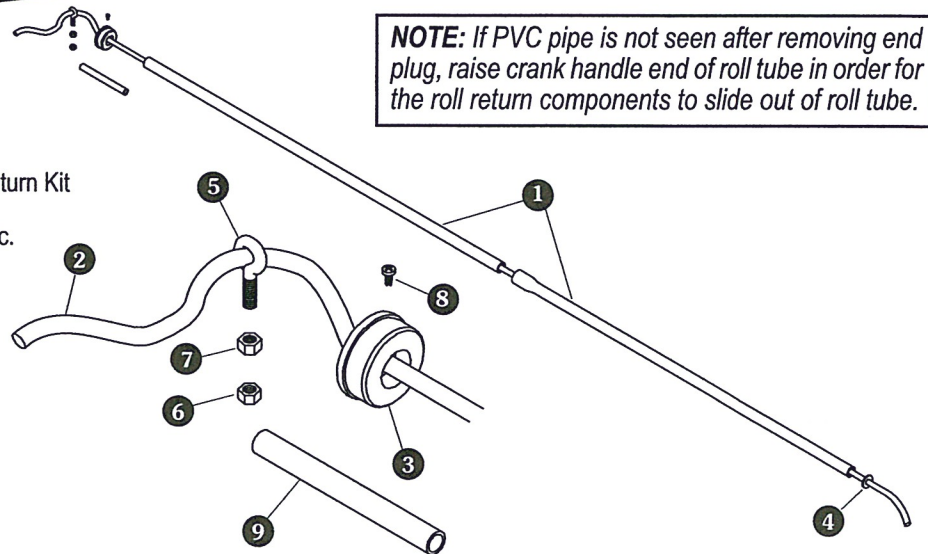
NOTE: Locate above decal near crank retainer on box or all warranty claims will be void.

Installation Instructions - Stretch Cord Return

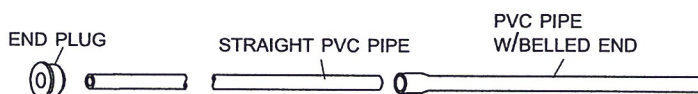
P/N 1114358 Rev. C

Item Part # Description

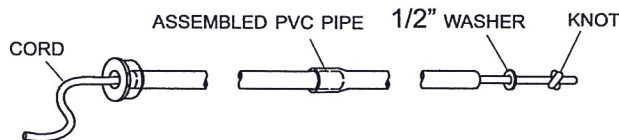
	1114359	Front Stretch Cord Roll Return Kit
	1114361	X-Wide Front Stretch Cord Roll Return Kit
1	1111067	Roll Return Tube Set - 2 Pc.
	1115041	X-Wide Roll Return Tube Set - 2 Pc.
2	1114360	Roll Return Stretch Cord - 11 1/2'
	1114362	Roll Return Stretch Cord - 16 1/2'
3	1100138	Nylon End Plug
4	1703373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



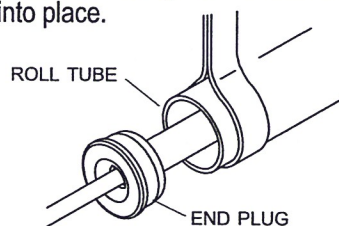
STEP 1: Press belled PVC pipe over end of straight PVC pipe. Press end plug into end of straight pipe.



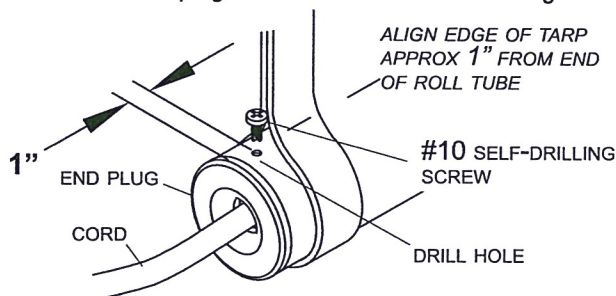
STEP 2: Insert stretch cord through pipes and end plug. Slide flat washer on end of stretch rope and tie knot.



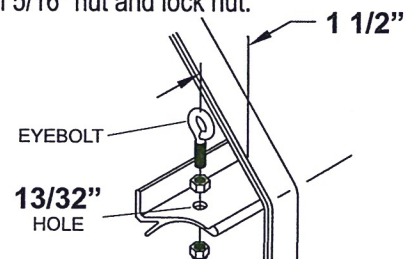
STEP 3: Insert roll return assembly into roll tube and lightly tap end plug into place.



STEP 4: Mark location 7/16" from edge of roll return end plug. Secure end plug to roll tube with #10 self-drilling screw.



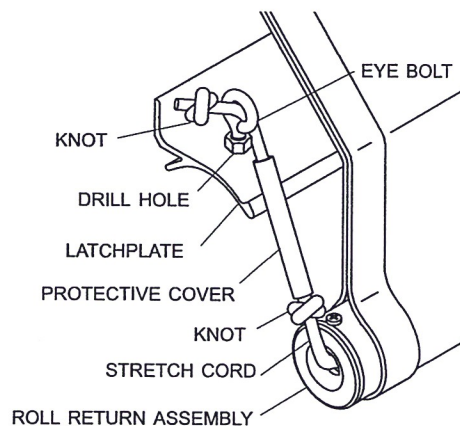
STEP 5: Drill 13/32" hole through latchplate 1 1/2" from end. Grind rough edges. Insert eyebolt through hole, secure with 5/16" nut and lock nut.



STEP 6: With tarp hanging over edge of box, pull stretch cord to remove slack in roll return assembly. Tie knot 6" to 12" from end of cord.

STEP 7: Slide protective cover over stretch cord.

STEP 8: Thread stretch cord through eye bolt. Tie knot on end of cord, creating enough tension to lift roll return slightly.

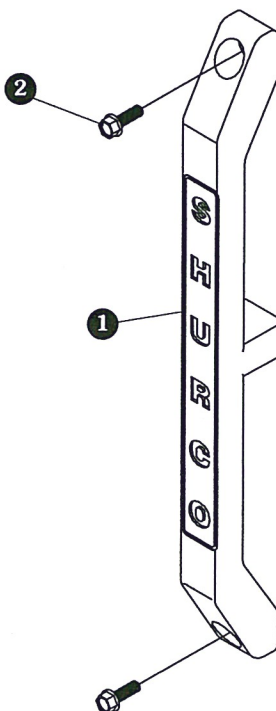


STEP 9: Test operation. Cut excess stretch cord and melt any frayed ends.

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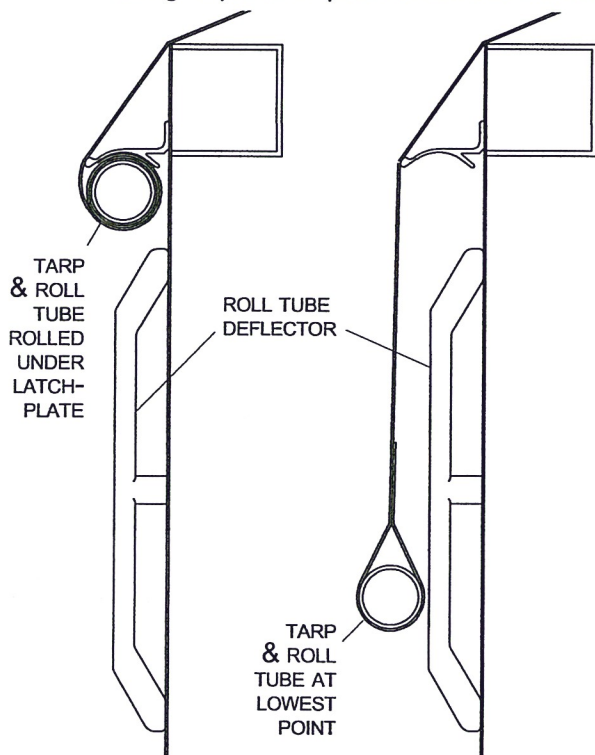


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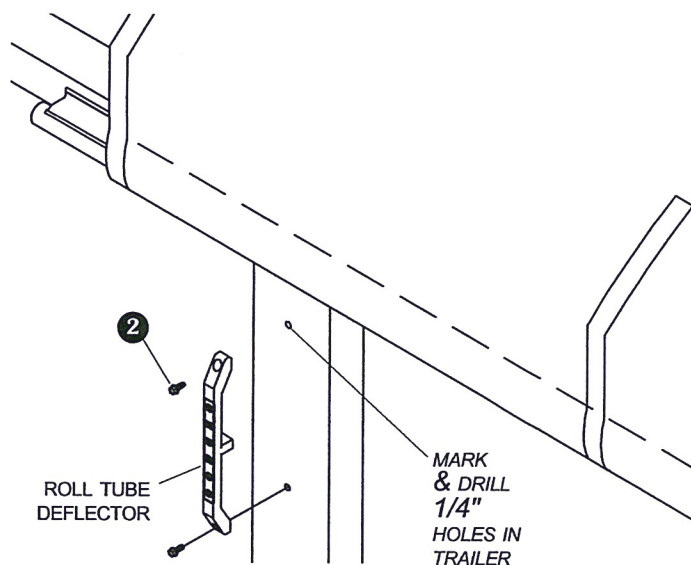


Item	Part #	Description
1.	1112029	Roll Tube Deflector - Gray
	1114658	Roll Tube Deflector - Black
2.	1701059	Self-Tapping Screw - 5/16" x 1"

STEP 1: Position roll tube deflectors low enough to clear tarp while tarp and roll tube are rolled under latchplate and high enough to prevent tarp and roll tube from contacting trailer.



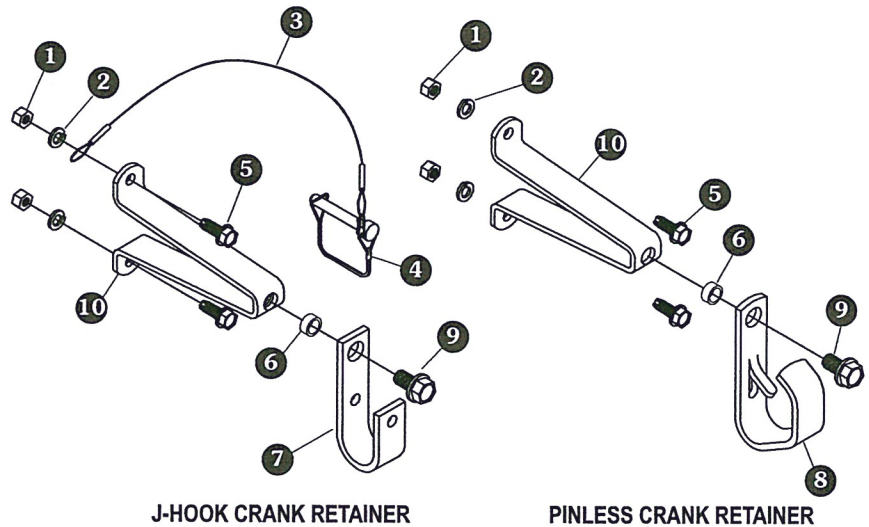
STEP 2: Mark and drill 1/4" holes and fasten roll tube deflectors to trailer with screws 2.



Installation Instructions - Shur-Co® Standard Crank Retainers

P/N 1107064 Rev. D

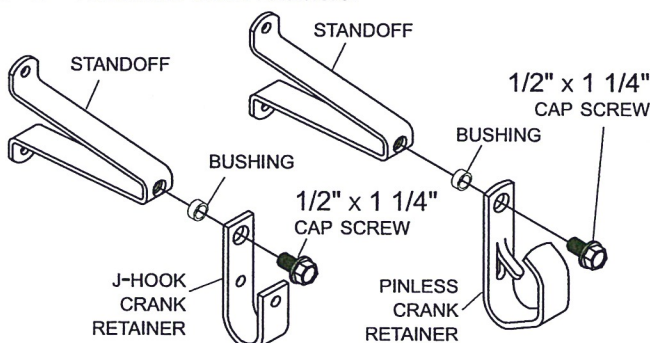
Item	Part #	Description
	1100386	Crank Retainer Kit w/7" Standoff
	1100388	Crank Retainer Kit w/2" Standoff
	1107047	Pinless Crank Retainer Kit w/7" Standoff
1.	1700407	Hex Nut - 3/8"
2.	1700434	Lock Washer - 3/8"
3.	1100574	Cable w/#5 Interlock Snap
4.	1700526	Wire Lock Pin - 3/8" x 2 1/2"
5.	1700400	Self-Tapping Screw - 3/8" x 1"
6.	1100306	Retainer Bushing - 11/16"
7.	1100040	J-Hook Crank Retainer
8.	1107049	Pinless Crank Retainer
9.	1702996	Hex Flange Cap Screw - 1/2" x 1 1/4"
10.	1100137	Crank Retainer Standoff - 2"
	1107080	Crank Retainer Standoff - 3"
	1100033	Crank Retainer Standoff - 7"
	1109478	Crank Retainer Standoff - 11"



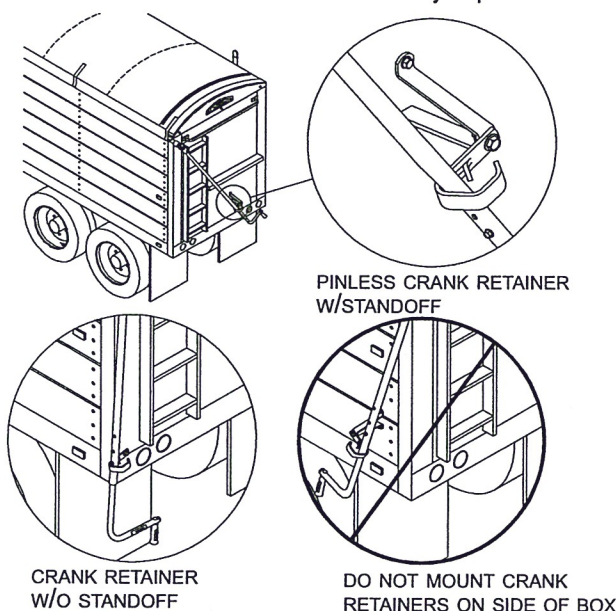
J-HOOK CRANK RETAINER

PINLESS CRANK RETAINER

STEP 1: Assemble crank retainers.

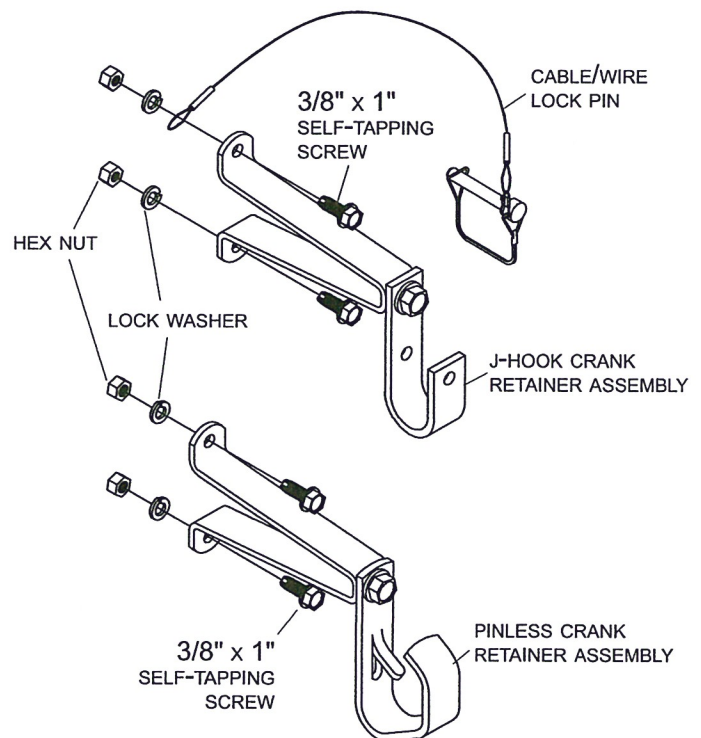


STEP 2: With tarp closed, rotate crank arm across rear of box to determine crank retainer location. Position crank retainer to hold crank arm securely in place.



STEP 3: Using standoff as a guide, mark and drill 13/32" holes in trailer (see note). Fasten crank retainer to box with 3/8" x 1" cap screws, lock washers, flat washers and nuts. Fasten cable w/snap and wire lock pin between standoff and box.

NOTE: Drill 5/16" holes if washers and nuts cannot be used and trailer wall is at least 3/16" thick.



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