

P/N 1118625 Rev. T



Farm Body

READ BEFORE INSTALLING

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

SHOP ONLINE: www.shopshurco.com

Shur-Co®, LLC Terms & Conditions

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 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 conjuction 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

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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 COLORADO

10220 Brighton Rd., Unit #1 Henderson, CO 80640 Ph 866.355.9173 | Fax 303.289.2298

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

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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

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34505 I-10 West, S. Frontage Rd. Brookshire, TX 77423 Ph 866.689.0039 | Fax 281.934.3311

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 and 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. Use only OSHA-approved ladders or scaffolding during installation process.
- 4. 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.

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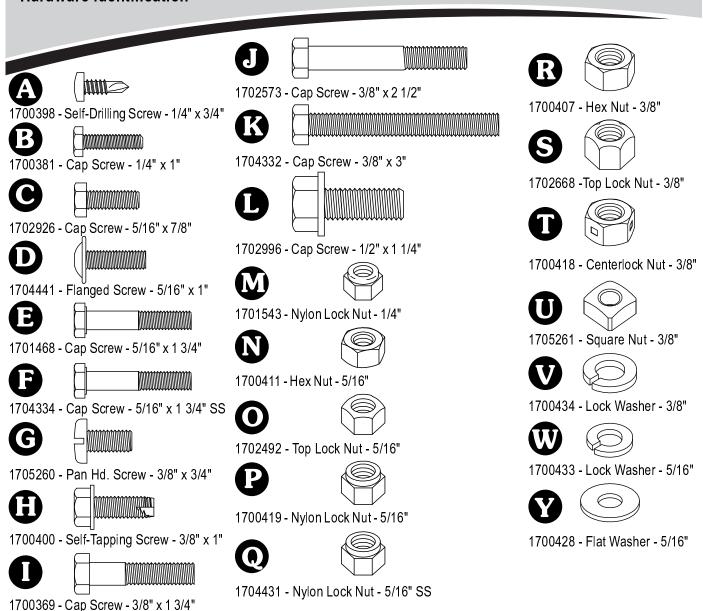
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TOOLS REQUIRED

- Grinder
- 2. #3 Phillips Insert Bit or #3 Phillips Screw Driver
- 3. Air or Electric Wrench w/9/16" Socket
- 4. 1/2" Combination Wrench
- 5. 9/16" Combination Wrench
- 6. Electric Drill
- 7. 3/16" Drill Bit
- 8. 11/32" Drill Bit
- 9. 5/16" Drill Bit (for 3/8" self-tapping screws)
- 10. 3/8" Drill Bit (for 3/8" cap screws)
- 11. 3/4" Combination Wrench or Socket & Wrench
- 12. Socket Wrench w/1/2" Socket
- 13. Tape Measure
- 14. Pencil
- 15. Clamps
- 16. Band Saw or Hack Saw
- 17. Pop Rivet Gun
- 18. Hammer
- 19. Pop Rivet Gun
- 20. 13/32" Drill Bit

Optional:

Hot Knife, Spray Paint, Caulk, Rubber Sealant or Welder



NOTE: Wherever 3/8" x 1" self-tapping screws **©** are used, use lock washers **①** and nuts **①**, 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

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

BOX PREPARATION

Before installing 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.



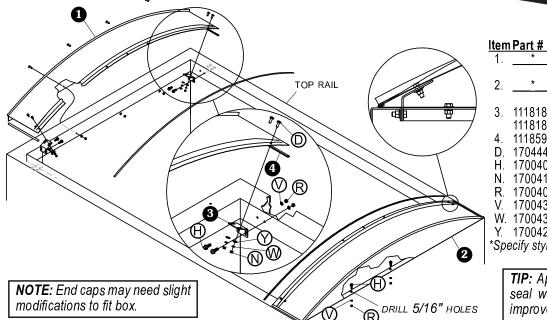
REMOVE SHARP EDGES ON TOP RAIL - PAINT ALL EXPOSED METAL

A CAUTI

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

P/N 1118625 Rev. T

End Caps



 tem Part #
 Description

 1.
 _*
 Galv. Face Mt. Cap - 6" Rise Galv. Face Mt. Cap - 10" Rise Galv. Top Mt. Cap - 6" Rise Galv. Top Mt. Cap - 10" Rise Galv. Top Mt. Cap - 10" Rise

 3.
 1118188 End Cap Brkt. - LR - Side Mt. 1118189 End Cap Brkt. - HR - Side Mt. Edge Trim - 30"

 4.
 1118596 Edge Trim - 30"

 D.
 1704441 Flanged Screw - 5/16" x 1" H. 1700400 Self-Tapping Screw - 3/8" x 1"

H. 1700400 Self-Tapping Screw -:
N. 1700411 Hex Nut - 5/16"
R. 1700407 Hex Nut - 3/8"
V. 1700434 Lock Washer - 3/8"
W. 1700433 Lock Washer - 5/16"
Y. 1700428 Flat Washer - 5/16"

*Specify style and size

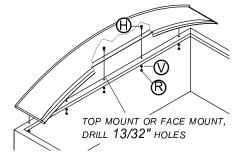
TIP: Apply bead of caulk or rubber seal where cap meets top rail to improve watertightness of caps.

STEP 1: Apply edge trim to end caps, placing edge trim **3** on sides of caps and edge trim **3** on inside edges.

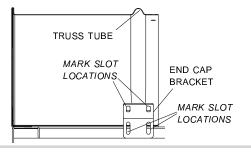


STEP 2: Center caps on box. Mark five evenly spaced hole locations on top rail/box and caps. Drill 13/32" holes and fasten end caps to top rail with screws ①, lock washers ① and nuts ②.

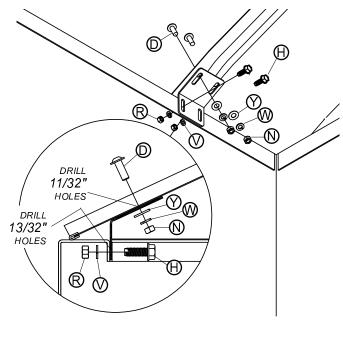
TIP: If cap has mounting slots, loosely fasten screws and nuts into top rail. Slide cap into place, then tighten screws.

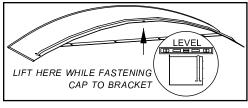


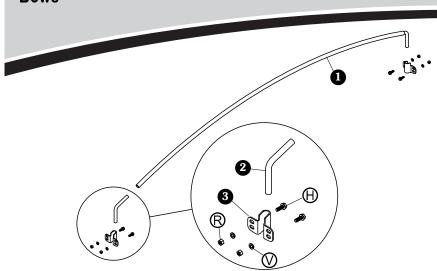
STEP 3: Center end cap brackets under truss tube. Mark locations of slotted holes on box and end caps.



STEP 4: Drill 13/32" holes at marked locations on box. Fasten bracket to box with screws ①, flat washers ②, lock washers ② and nuts ③. Drill 11/32" holes and fasten bracket to end cap with screws ①, flat washers ③, lock washers ④ and nuts ②.



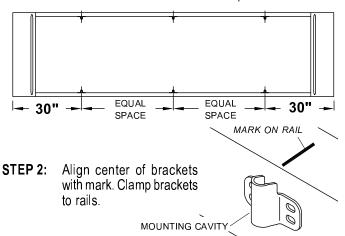




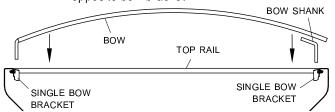
NOTE: Refer to note under Hardware Identification on page 1 for drill size.

Item	Part #	Description
1.	1117905	Std. High-Rise Bow - 89" to 95"
	1100762	Std. High-Rise Bow - 96" to 102"
	1116120	Std. Low-Rise Bow - 85" to 92"
	1100760	Std. Low-Rise Bow - 93" to 102"
2.	1106925	Std. High-Rise Bow Shank
	1100695	Std. Low-Rise Bow Shank
3.	1120836	Single Bow Bracket
Н.	1700400	Self-Tapping Screw - 3/8" x 1"
R.	1700407	Hex Nut - 3/8"
V.	1700434	Lock Washer - 3/8"

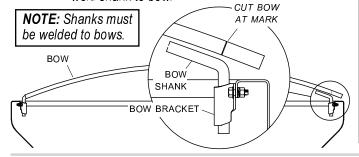
STEP 1: Mark bow bracket locations on top rails as shown.



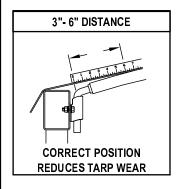
STEP 3: Place bow into bow bracket. Place loose bow shank in opposite bow bracket.

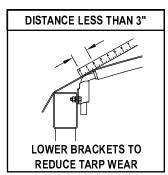


STEP 4: Align bow with bow shank. Mark and cut bow at point where bend starts on shank. Grind edges smooth and weld shank to bow.

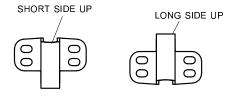


STEP 5: Adjust bow brackets vertically to allow 3" to 6" between bend in bow shank and point where tarp will contact bow.

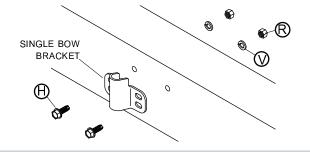


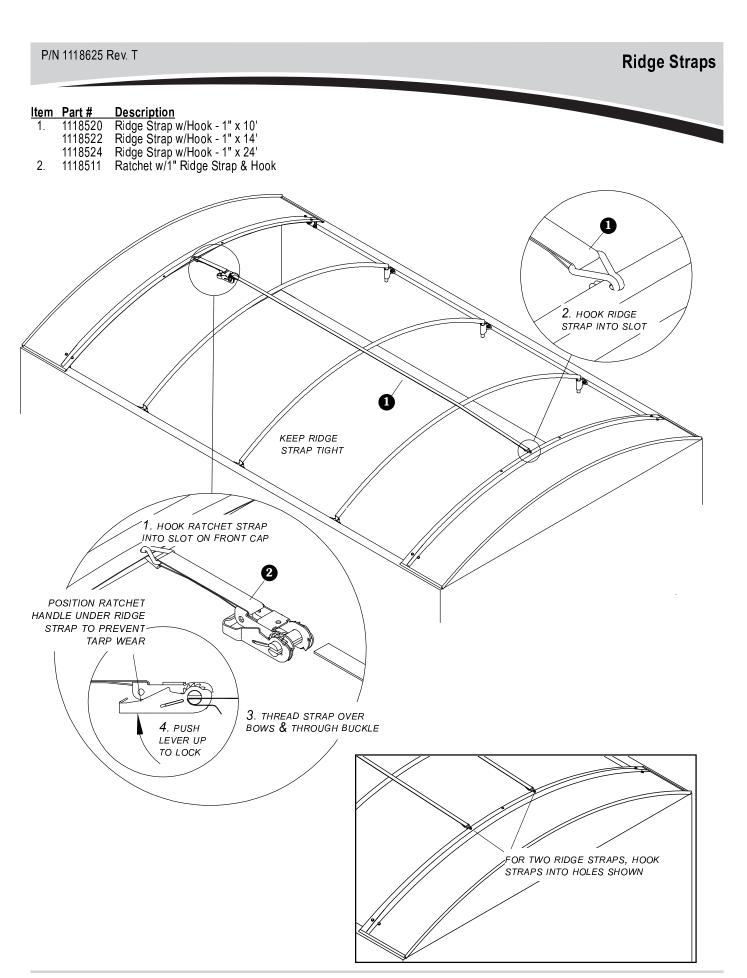


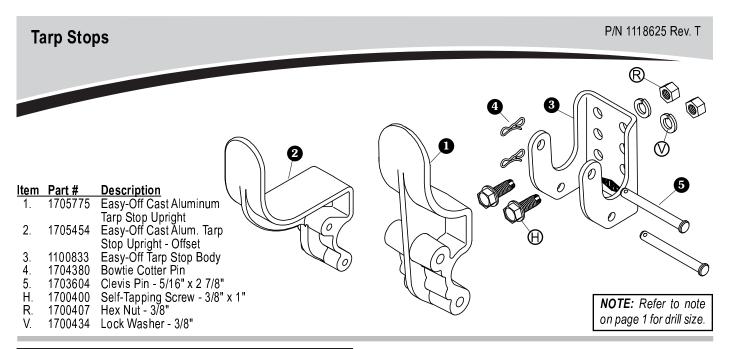
NOTE: Orient bow brackets with either long or short side up in order to attain correct bow height.



STEP 6: Mark and drill 13/32" holes and mount brackets with screws ⊕, lock washers ⊕ and nuts ⊕. Install bows into bow brackets.

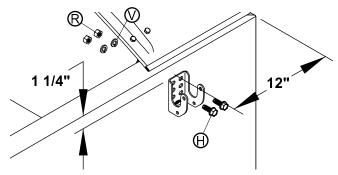






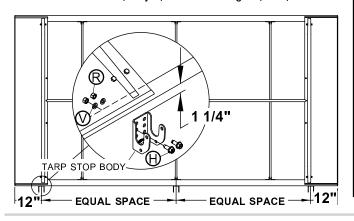
NOTE: If you are installing system to open from passenger side of box, locate tarp stops on passenger side.

STEP 1: Locate first tarp stop body 12" from front edge of box and 1 1/4" below top of side rail. Mark and drill holes and fasten to box with screws ①, lock washers ② and nuts ③.



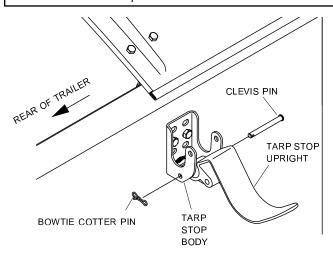
NOTE: Install tarp stop body on vertical surface. Fasten through holes that best fit top rail configuration.

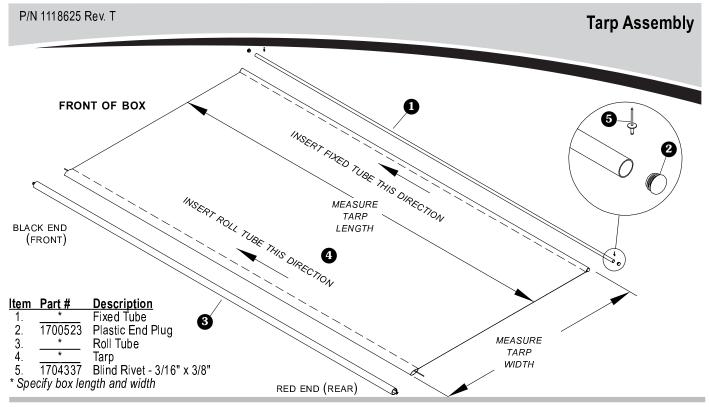
STEP 2: Locate second tarp stop body 12" from rear edge of box and 1 1/4" below top of side rail. Mark and drill holes and fasten with screws ❶, lock washers ❷ and nuts ④. Equally space remaining tarp stop bodies.



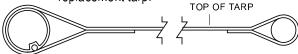
STEP 3: Align lower holes in tarp stop uprights with lower holes in tarp stop bodies. Insert clevis pins through aligned holes and secure with bowtie cotter pin.

NOTE: Position cotter pins at rear of bracket as shown.





STEP 1: Measure tarp. Open tarp and stretch tight. Measure tarp length and width and compare with sheet attached to tarp. Do not proceed with installation if tarp length or width doesn't match what is specified on sheet. Call Shur-Co® or your local dealer for alterations or a replacement tarp.



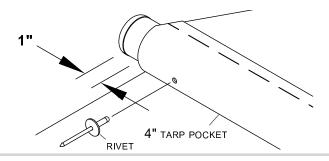
NOTE: Tarps cannot be returned at Shur-Co's expense beyond this point. Tarps damaged beyond this point may be returned for repair or replacement at owner's expense.

STEP 2: Install end plugs into ends of fixed tube.

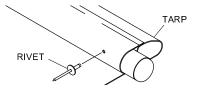
END PLUG

FIXED TUBE

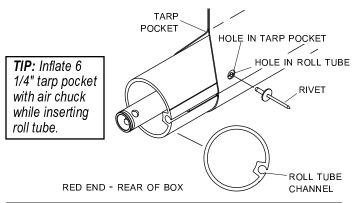
STEP 3: Insert fixed tube into 4" tarp pocket. Extend tube 1" past tarp edge, align pre-punched hole in tarp with 3/16" hole in fixed tube and secure with 3/16" rivet.



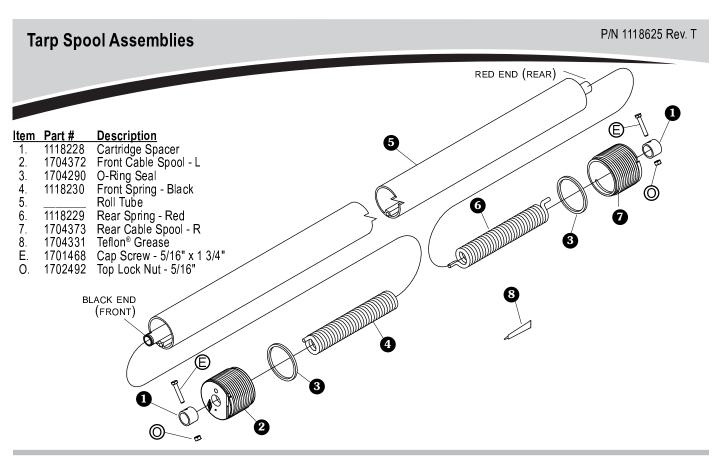
STEP 4: Stretch tarp along fixed tube until second hole in tarp stop is aligned with second hole in fixed tube, then secure second rivet on opposite end of fixed tube.



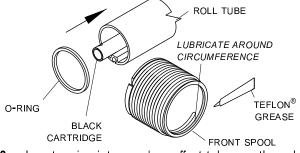
STEP 5: Roll tube. Align roll tube with 6 1/4" pocket in tarp so channel in roll tube lines up with rod sewn inside tarp pocket. Make sure hole in roll tube and hole in tarp are on same side of rod. Slide roll tube into tarp pocket, fitting rod into channel. Align hole near end of roll tube with hole in tarp. Fasten with rivet. At opposite end of roll tube, stretch tarp until hole in tarp aligns with hole in roll tube. Fasten with rivet.



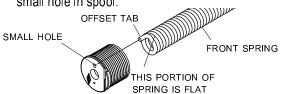
NOTE: Rod must extend past edge of tarp but must not extend past edge of roll tube. Trim rod, if required.



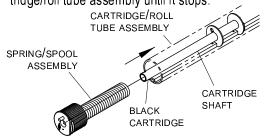
STEP 1: Slide O-ring onto roll tube. Lubricate inside of front spool (marked L) with Teflon® grease.



STEP 2: Insert spring into spool so offset tab goes through small hole in spool.



STEP 3: Insert spring and spool onto black cartridge shaft. Continue to slide spring/spool assembly into cartridge/roll tube assembly until it stops.



STEP 4: Turn front spool
(marked 'L') and
push to fully engage
spring in roll tube.

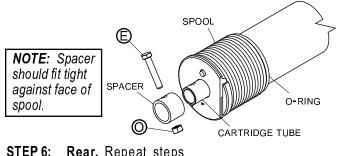
SPOOLS MARKED:
L = FRONT
R = REAR

SNAP SPRING
INTO HOLE

STEP 5: Slide spacer on cartridge tube. Align holes with cartridge tube and fasten with cap screw

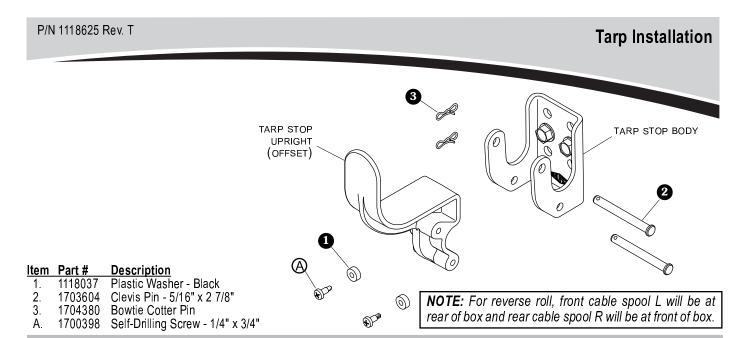
● and lock nut

• Tighten. Push O-ring against spool.

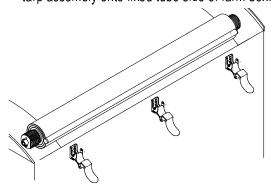


Rear. Repeat steps
1 to 5 on rear end of
roll tube, using rear
spool (marked R) and
red spring. Install on
cartridge marked red.

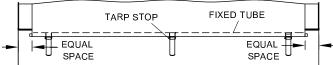
SPOOLS MARKED:
L = FRONT
R = REAR



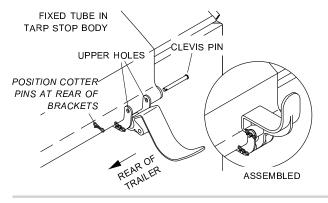
STEP 1: Wind tarp completely around roll tube. Lift rolled-up tarp assembly onto fixed tube side of farm box.



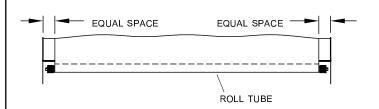
STEP 2: Center tarp on farm box, overlapping end caps. Unroll tarp so fixed tube hangs over edge of box. Square up tarp and fixed tube. Adjust tarp so fixed tube rests squarely in tarp stop bodies.



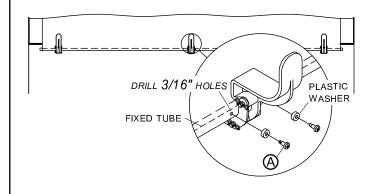
STEP 3: Align upper holes in tarp stop uprights with upper holes in tarp stop bodies. Insert clevis pins through aligned holes and secure with bowtie cotter pins. Repeat for each tarp stop.

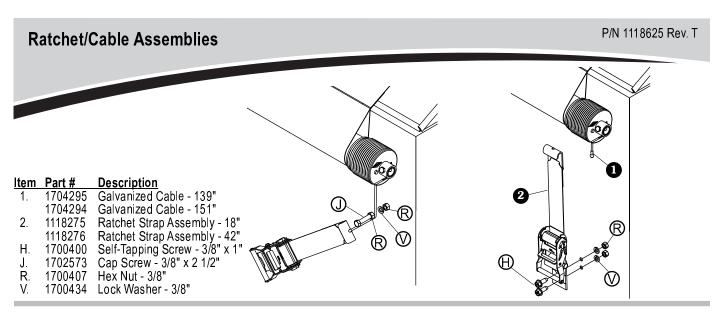


STEP4: Make sure tarp and roll tube are centered on box.

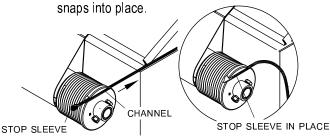


STEP 5: At center tarp stop, hold plastic washer against tarp stop body. Using washer as guide, drill 3/16" hole through tarp and fixed tube. Using #3 Phillips bit, thread self-drilling screw 1 through washer and hole in fixed tube. Remove screw and use screw to fasten washer to fixed tube. Do not overtighten. Repeat on other side of tarp stop body.

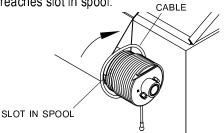




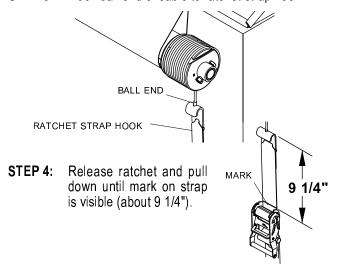
STEP 1: With tarp closed, insert stop sleeve end of cable into channel on end of spool. Pull cable until stop sleeve



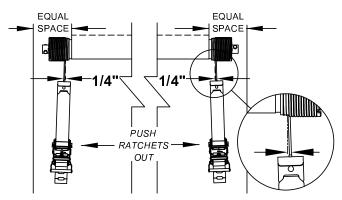
STEP 2: Wrap cable into grooves around spool until cable reaches slot in spool.



STEP 3: Hook ball end of cable to ratchet strap hook.

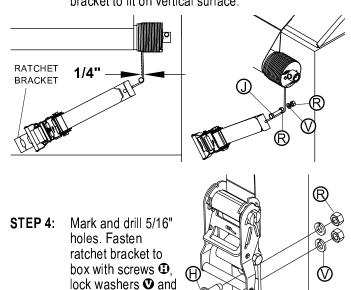


STEP 5: To ensure cable winds correctly in spool grooves, push ratchets out so cable moves 1/4".

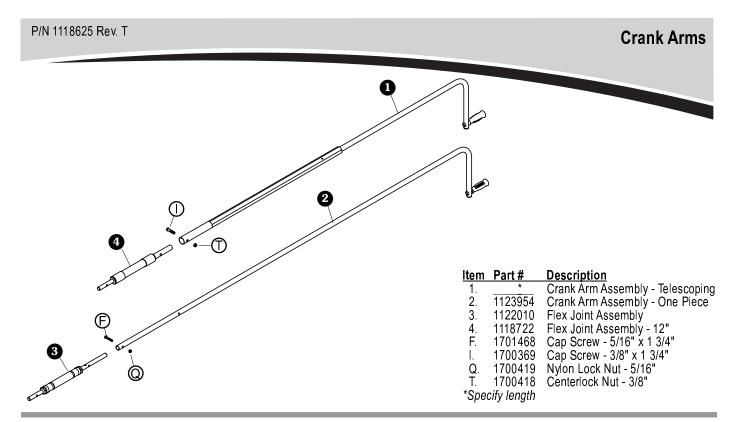


STEP 5A: If vertical surface is too short to mount ratchets.

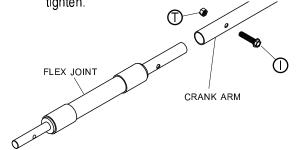
Mark location for 5/16" holes after ratchets are pushed out so cable moves 1/4". Drill holes. Tighten nut ② on screw ② and fasten to box with lock washer ③ and nut ③. Guide cable around cap screw and rotate ratchet bracket to fit on vertical surface.



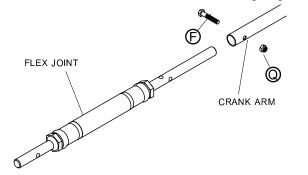
nuts 13.



STEP 1A: Telescoping crank option. Insert flex joint into end of crank arm. Secure with screw ① and nut ①. Finger tighten.

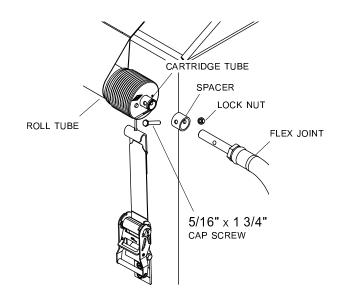


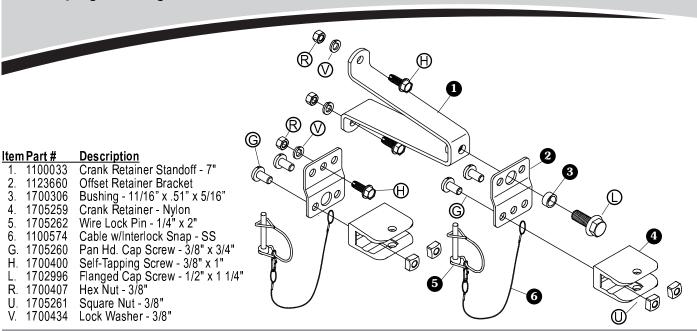
STEP 1B: One piece option. Insert flex joint into end of crank arm. Fasten with screw **3** and nut **5**. Finger tighten.



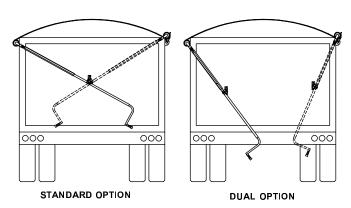
NOTE: If handle is too long, cut handle 1" from second hole before fastening to flex joint.

STEP 2: Remove nut and cap screw from spacer on rear (red) end of roll tube. Slide flex joint end into cartridge tube protruding from roll tube. Align holes, reinsert cap screw and tighten hex nut.



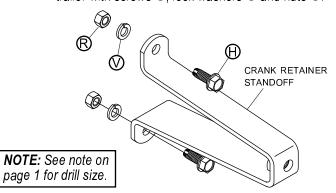


STEP 1: Determine mounting location on rear of trailer for 1 or 2 crank retainer standoffs or crank retainers (if not using standoffs). Location must be accessible by crank arm while tarp is open or closed.

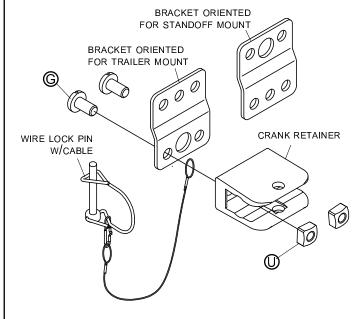


LOCATE CRANK RETAINER TO HOLD CRANK EXTENSION PORTION OF CRANK ASSEMBLY.

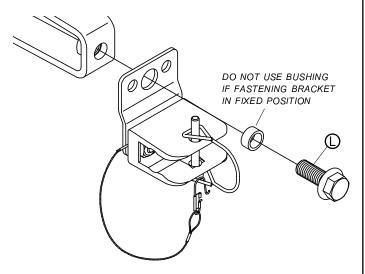
STEP 2: Drill 5/16" holes and fasten crank retainer standoff to trailer with screws ⊕, lock washers • and nuts ⊕.



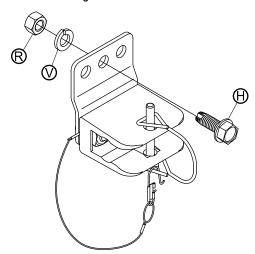
STEP 3: Assemble crank retainer as shown, aligning larger hole on top of bracket if mounting on standoff. If mounting on trailer, align larger hole on bottom.

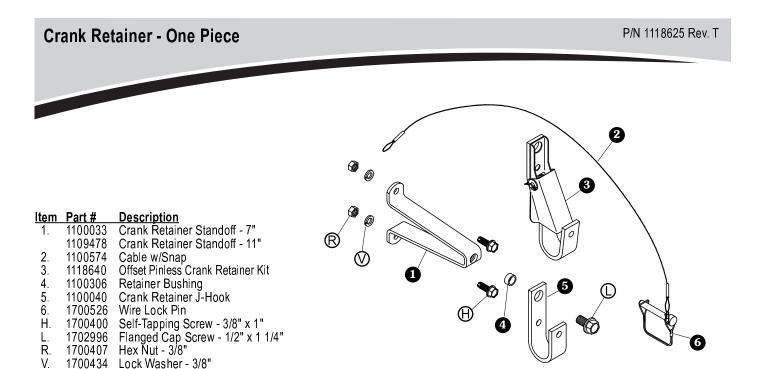


STEP 3A: Standoff mount. Fasten telescoping crank retainer to crank retainer standoff on rear of trailer with screw **①** and bushing. Tighten fasteners.

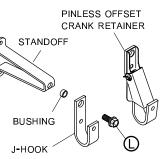


STEP 3B: Trailer mount. Use center hole in retaining bracket as guide to mark and drill 5/16" hole in trailer wall. Fasten with galvanized steel screw ♠, washer ❖ and nut ҈. Tighten fasteners.

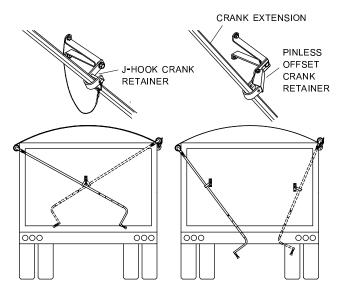




STEP 1: Assemble standoff, bushing and
J-hook or pinless
offset crank retainer (
with screw ①. Assemble pinless offset components per
instructions
P/N1114601.

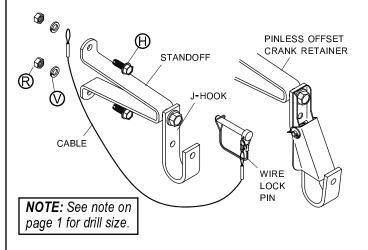


STEP 2: Mark locations for 1 or 2 crank retainers on back of box, where accessible by crank arm while tarp is open or closed.



LOCATE CRANK RETAINER TO HOLD CRANK EXTENSION PORTION OF CRANK ASSEMBLY

STEP 3: Drill 5/16" holes and fasten crank retainer assembly to box with screws ⊕, lock washers ⊕ and nuts ⊕. If using J-hook, fasten cable to wire lock pin. Fasten other end of cable behind standoff.



P/N 1118625 Rev. T Cable Tension

STEP 1: Determine tarp tension. Tighten ratchets to apply initial tension to tarp. Note position of channels on front and rear spools as initial tarp tension is reached.



A CAUTION

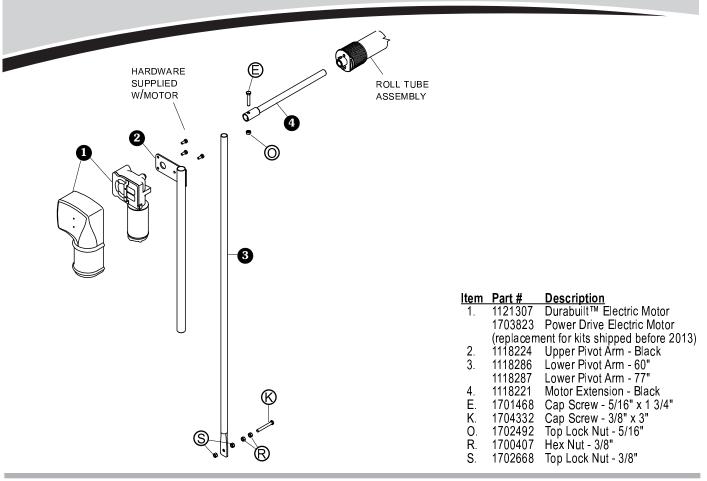
Do not adjust ratchets while system is operating.

STEP 2: Tighten ratchet so channels rotate 90° from original position. Open and close tarp system 5 or 6 times to allow cable to seat in spool grooves and tarp to pull CHANNEL snug. Check position of channel and retighten ratchet as needed to rotate channel 90° from initial position NOTE: Ratchet must be in locked position to hold tension. Do not release tension to operate system.

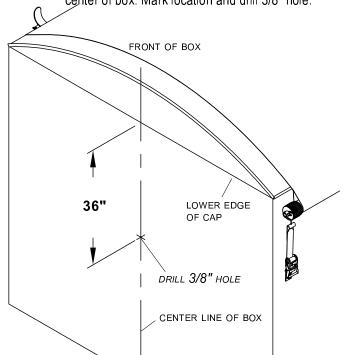
STEP 3: Place decal as shown.



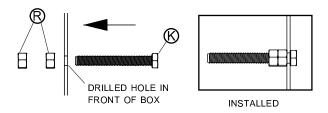
Electric Motor P/N 1118625 Rev. T



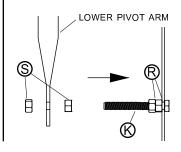
STEP 1: Determine pivot point location on front of box by measuring 36" down from lower edge of end cap at center of box. Mark location and drill 3/8" hole.

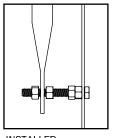


STEP 2: From inside of box, insert cap screw through hole and tighten against box wall with hex nut . Tighten second hex nut against first hex nut.



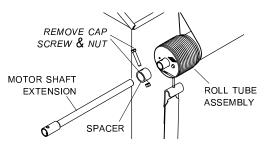
STEP 3: Turn lock nut ③ onto cap screw ④, positioning nut to allow enough thread on cap screw to place pivot arm and another nut. Install lower pivot arm over cap screw ⑤ and turn second lock nut ⑤ onto cap screw ⑥, leaving room for arm to rotate freely.



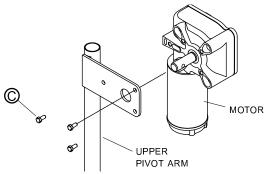


INSTALLED

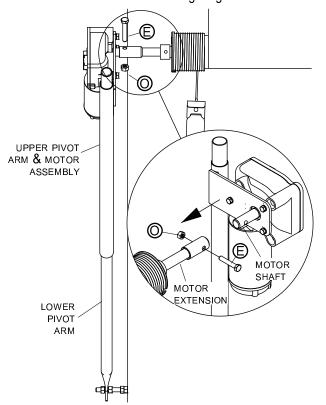
STEP 4: Remove cap screw ③ and lock nut ④ from cartridge spacer on front of roll tube. Insert motor shaft extension into spacer and roll tube assembly.



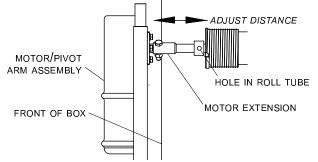
STEP 5: Fasten motor to upper pivot arm with screw supplied with motor.



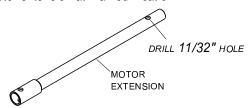
STEP 6: Slide upper pivot arm and motor assembly over lower pivot arm. Insert motor shaft into motor extension. Insert screw **⑤** and finger tighten nut **⑥**.



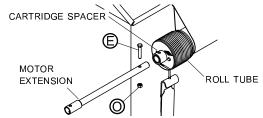
STEP 7: Adjust distance between motor/pivot arm assembly and box to allow free movement of pivot arm and motor assembly across front of box. Using hole in roll tube as guide, mark hole location on motor extension.



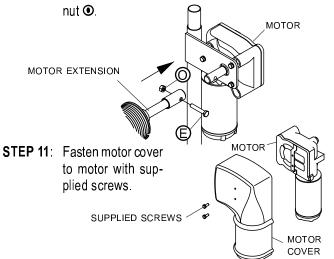
STEP 8: Remove motor extension. Drill 11/32" hole through motor extension at marked location.

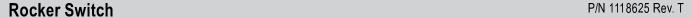


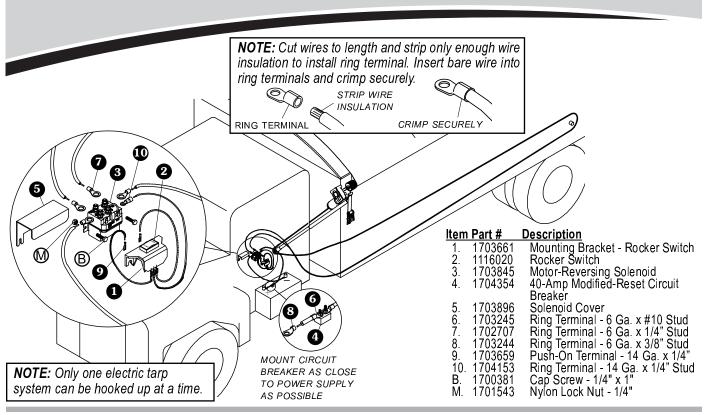
STEP 9: Replace motor extension into roll tube. Align holes and secure cartridge spacer and motor extension to roll tube with screw ③ and nut ④.



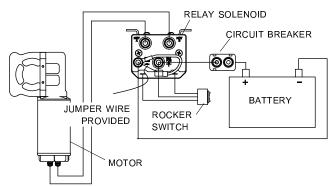
STEP 10: Replace motor onto motor extension. Align holes and secure motor to motor extension with screw **③** and



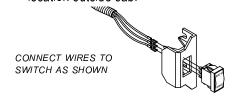




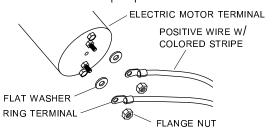
- STEP 1: Circuit breaker & battery. Mount circuit breaker as close as possible to battery or power supply.
- STEP 2: Mount solenoid. Mount solenoid in a suitable location a ventilated area near the battery is ideal. Determine best route for wire, usually along frame with existing wire harness. Run 6-ga. wire from motor to solenoid and from power supply to solenoid as shown in diagram. Run 14-ga. wires from solenoid to switch.



STEP 3: Rocker switch. Locate rocker switch in convenient operating location. Switch can be mounted in cab, on dash panel, on driver side door jamb or in convenient location outside cab.



- **STEP 4:** Wire routing. Run wire to rear of box, around hoist pin and back to front of box.
- **STEP 5:** Connect wires at top of pivot arm to motor.



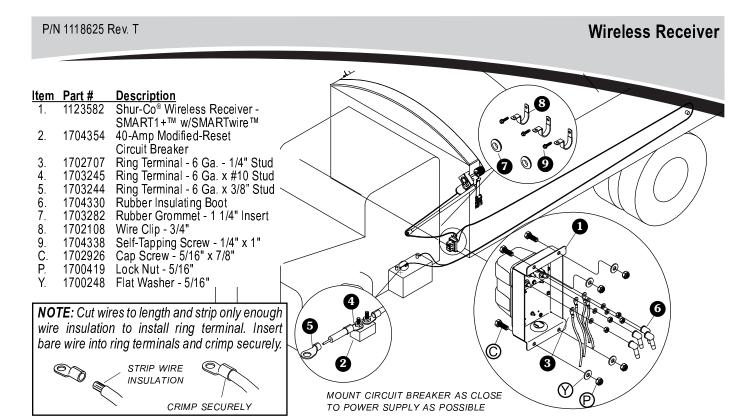
OPERATION:

- **A)** Check motor direction by activating switch to "OPEN." If switch is running system backwards, change wire leads on motor to opposite connections.
- **B)** Close tarp: Push switch to "CLOSE" and hold. Observe tarp and release switch when tarp is fully closed.
- **C) Open tarp:** Push switch to "OPEN" and hold. Observe tarp and release switch when tarp is fully open.

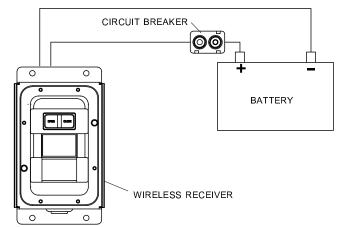
NOTE: Release switch at end of cycle or modified-reset circuit breaker will trip. After breaker resets, switch will activate motor again. To reduce unnecessary strain on tarp components, release switch at end of each cycle.

A CAUTION

Check all hardware for complete assembly before operating. Inspect system at this time and adjust as required.



STEP 1: Circuit breaker & battery. Mount circuit breaker as close as possible to battery or power supply.



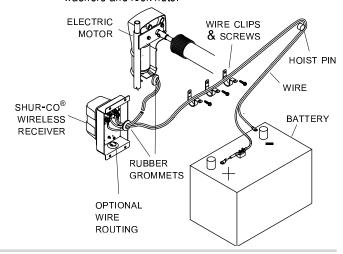
STEP 2: Strip and prep wire ends for connection to motor. Insert end of wire through rubber boots, then crimp 1/4" ring terminals onto wire ends. Connect wires at top of pivot arm to motor.

STEP 3: Shur-Co® wireless receiver. Run 6-ga. wire from electric motor down pivot arm. Use cable ties to hold wire onto pivot arm. Drill 1 1/8" hole below pivot point. Press rubber grommet into hole and insert wire through grommet. Leave slack in wire for movement during operation. Route wires as desired, securing with wire clips and self-tapping screws. Drill 1 1/8" hole through front of trailer at suitable location for wireless receiver. Insert grommet into hole and push wire through grommet.

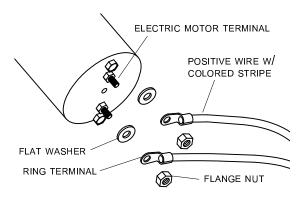
NOTE: Use dielectric grease (P/N 1704378) to prevent corrosion on terminals.

STEP 4: Insert end of wire through rubber boots, then crimp 1/4" ring terminals onto wire ends. Remove nuts and lock washers from back of wireless receiver. Place positive wire on upper orange post and negative wire on upper black post. Secure lock washers and hex nuts. Coat with dielectric grease and install rubber boots over ring terminals.

STEP 5: Run section of 6-ga. wire long enough to reach rear hoist pin and back to battery through rubber boots. Crimp 1/4" ring terminals to wire ends. On back of wireless receiver, place positive wire on lower orange post and negative wire on lower black post. Secure with 1/4" lock washers and hex nuts. Coat with dielectric grease and install rubber boots over ring terminals. Mount wireless receiver to cover rubber grommet. Mark and drill 11/32" holes and fasten receiver to trailer with 5/16" x 7/8" cap screws, flat washers and lock nuts.



STEP 6: Connect wires at top of pivot arm to motor.



A CAUTION

Check all hardware for complete assembly before operating. Inspect system at this time and adjust as required.

OPERATION:

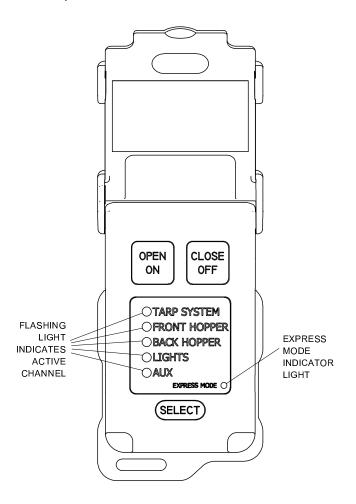
- **A)** Check motor direction by activating switch to "OPEN." If switch is running system backwards, change wire leads on motor to opposite connections.
- **B)** Close tarp: Push switch to "CLOSE" and hold. Observe tarp and release switch when tarp is fully closed.
- **C) Open tarp:** Push switch to 'OPEN" and hold. Observe tarp and release switch when tarp is fully open.

NOTE: Release switch at end of cycle or modified-reset circuit breaker will trip. After breaker resets, switch will activate motor again. To reduce unnecessary strain on tarp components, release switch at end of each cycle.

NOTE: Receiver may be pressure washed, but keep nozzle at least 3' from system while spraying.

POWER UP/DOWN

Remote will power up when lid is opened. Remote will power down when lid is closed or when lid is left open three minutes after last button is pushed.



STANDARD OPERATION

After power-up, first channel will be immediately active and indicator light will be flashing. *Open/On* and *Close/Off* buttons are operational for indicated active channel. While either *Open* or *Close* button is pressed, indicator light for active channel will flash faster, indicating command is being transmitted on active channel. *Select* button will cycle between enabled channels.

Each channel on remote can be set to operate in either *Momentary Mode* or *Express Mode*.

Momentary Mode: While remote channel is in *Momentary Mode*, *Open* or *Close* button must be held down to operate system.

NOTE: Some Shur-Co® products are not compatible with **EXPRESS MODE.** If motor does not have encoder wire, remote will operate in Momentary Mode only.

Indicator light labeled **EXPRESS MODE** will be off when remote is in *Momentary Mode*.

If remote channel is in *Momentary Mode*, you may still force system to open or close automatically one time by pressing *Open* or *Close*, while simultaneously pressing *Select* button. System will continue to operate until fully open or closed. System can be stopped at any time by pressing any button on remote or closing remote lid.

Indicator light labeled *Express Mode* will be lit for first five seconds after initiating "One Time" Express command.

Express Mode: While remote channel is in *Express Mode*, *Open* or *Close* button can be pressed and released. System will continue to operate until fully open or closed. System can be stopped at any time by pressing any button on remote or closing remote lid.

Indicator light labeled **EXPRESS MODE** will be on when remote is in *Express Mode*.

PAIRING (INTRODUCING) REMOTE(S) TO RECEIVER

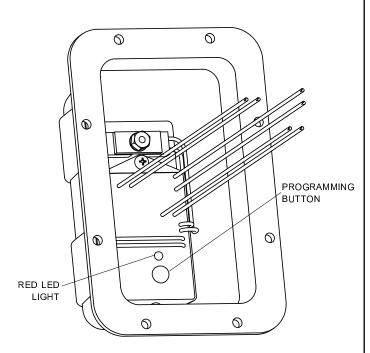
Receiver will accept and respond to signals from up to five remotes. Receiver will not respond to signals from remotes that have not been paired to it.

NOTE: Remotes are typically paired to receivers at factory if remote is shipped with receiver.

Follow instructions below to pair remote(s) to receiver:

1. Remove solenoid cover from receiver assembly, pulling gently on cover to prevent damage to wires connected to cover.

NOTE: Only SMART1+™ remotes will function with SMART1+™ receivers. The original SMARTtransmitter® cannot be used.



2. Check to be sure receiver is connected to 12-volt power supply. Receiver must be connected to power to be programmed. If battery disconnect switch is installed, make sure it is turned on.

NOTE: Read following steps entirely before proceeding. Programming must be completed within 20 seconds. Receiver will exit program mode after 20 seconds, whether or not it has received Open/On button signals from remote.

- Receiver can learn to recognize up to five remotes. Gather all
 of remotes to be introduced to receiver. Open remote lid(s)
 to activate.
- **4**. Set remote(s) to appropriate channel (*Tarp System*).
- Press and hold programming button on receiver for five seconds. Red light will start flashing to indicate it is in programming mode. Release programming button. Red light will now turn off.

Single SMART1+™ remote:

- **6a1.** On remote, press *Open/On* button five times. Red light on receiver will flash after each button press. After receiving last signal, light will flash twice, then begin flickering, indicating it has been successfully programmed.
- **6a2.** Verify remote and receiver are operating correctly, then refasten solenoid cover.

Multiple SMART1+™ remotes:

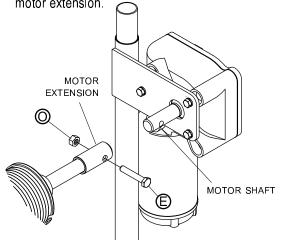
- **6b1.** Press *Open/On* button on first remote. Red light will flash after receiving signal.
- **6b2.** Repeat above step for each remote being used.
- **6b3.** Receiver will accept up to five signals. Press *Open/On* button additional times on last remote being programmed to achieve total of five signals. Red light on receiver will flash twice after last (fifth) signal, then begin flickering, indicating it has been successfully programmed (see programming example).
- **6b4.** Verify each remote and receiver are operating correctly, then refasten solenoid cover.

Perform the following steps to convert your electric Cable-LokTM system to a manual crank operation:

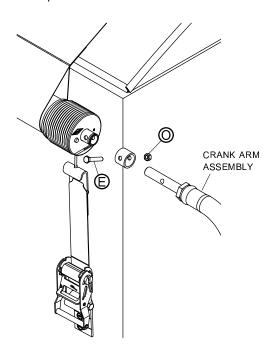
NOTE: Store manual crank arm in truck or mounted to trailer. (Example: Above kingpin in apex.)

STEP 1: Close tarp, letting roll tube hang loose.

STEP 2: At front of box, remove cap screw **3** and nut **1** from motor shaft and motor extension. Remove motor from motor extension.

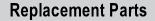


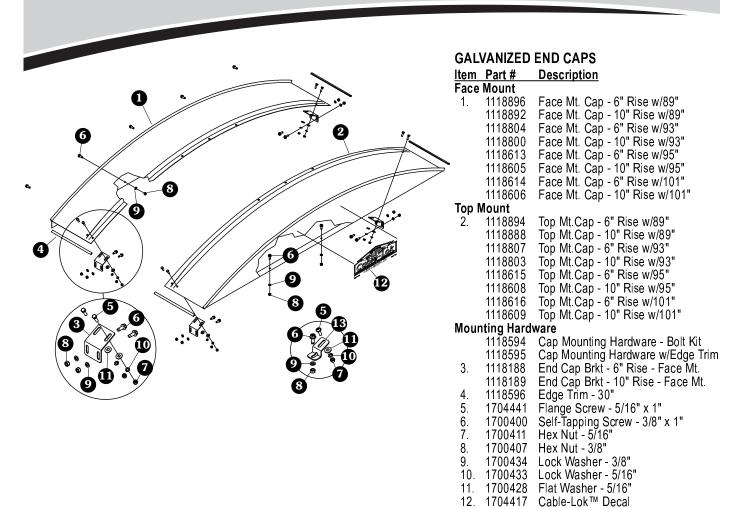
STEP 3: Install crank arm at rear of box as shown in the *Manual Crank Option* section of this manual.



P/N 1118625 Rev. T

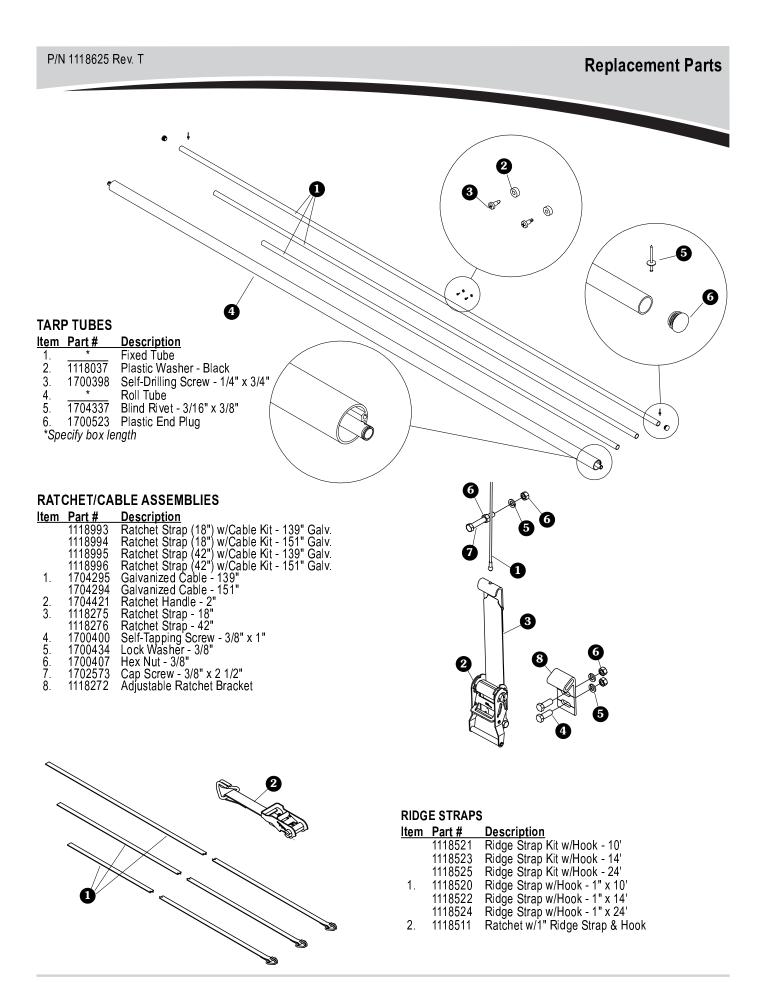
13. 1118191 End Cap Brkt. - 6" Rise - Top Mt. 1118192 End Cap Brkt. - 10" Rise - Top Mt.

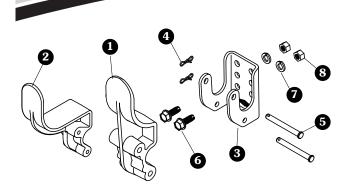




BOWS

ltem	Part #	<u>Description</u>
	1117916	Std. Low-Rise Bow Kit - 85" to 92"
	1100766	Std. Low-Rise Bow Kit - 96" to 102"
	1117917	
	1100768	Std. High-Rise Bow Kit - 96" to 102"
	1117205	Std. Low-Rise Bow Kit - Single Bow
		Bracket - 85" to 92"
	1109139	Std. Low-Rise Bow Kit - Single Bow
		Bracket - 93" to 102"
	1117919	Std. High-Rise Bow Kit - Single Bow
		Bracket - 89" to 95"
	1109091	
		Bracket - 96" to 102"
1.	1117905	
	1100762	Std. High-Rise Bow - 96" to 102"
		Std. Low-Rise Bow - 85" to 92"
		Std. LOW-Rise Bow - 93" to 102"
2.	1106925	
	1100695	
3.	1120836	Single Bow Bracket - Steel / \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
4.	1700400	
5.	1700407	
6.		Lock Washer - 3/8"
7.	1117946	Adjustable Bow Bracket Kit



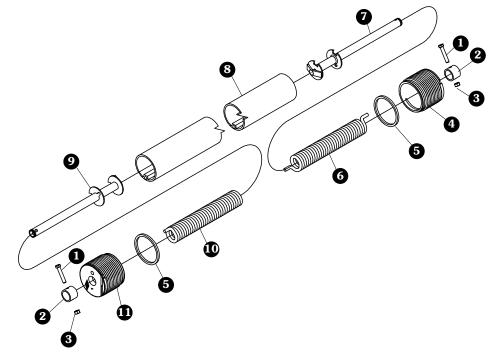


TARP STOPS

ltem	Part #	Description
	1111094	Easy-Off Tarp Stop w/Mounting Hardware
	1111095	Offset Easy-Off Tarp Stop w/Mounting Hardware
	1124768	Easy-Off Aluminum Tarp Stop Assembly
	1124771	Easy-Off Aluminum 6" Offset Tarp Stop Assembly
	1118389	Bowtie Cotter Pin/Ring Assembly
1.	1705775	Easy-Off Cast Alum. Tarp Stop Upright
2.	1705454	Offset Easy-Off Cast Alum. Tarp Stop Upright
3.	1100833	Easy-Off Tarp Stop Body
4.	1704380	Bowtie Cotter Pin
5.	1703604	Clevis Pin - 5/16" x 2 7/8"
6.	1700400	Self-Tapping Screw - 3/8" x 1"
7.	1700434	Lock Washer - 3/8"
8.	1700407	Hex Nut - 3/8"

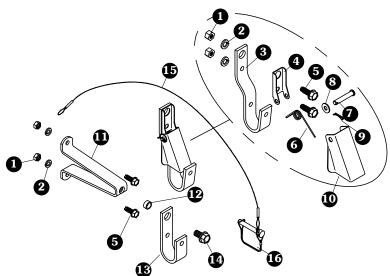
TARP SPOOL ASSEMBLIES

tem	Part #	<u>Description</u>
1.	1701468	Cap Screw - 5/16" x 3/4"
2.	1118228	Cartridge Spacer
3.	1702492	Top Lock Nut - 5/16"
4.	1704373	Rear Cable Spool - R
5.	1704290	O-Ring Seal
6.	1118229	Rear Špring - Red
7.	1123953	Rear Cartridge Kit
8.	*	Roll Tube
9.	1123952	Front Cartridge Kit
10.	1118230	Front Spring - Black
11.	1704372	Front Cable Spool - L
*Spe	ecify box le	ngth .

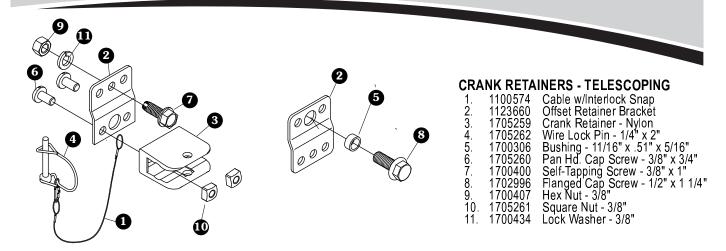


CRANK RETAINERS - ONE PIECE

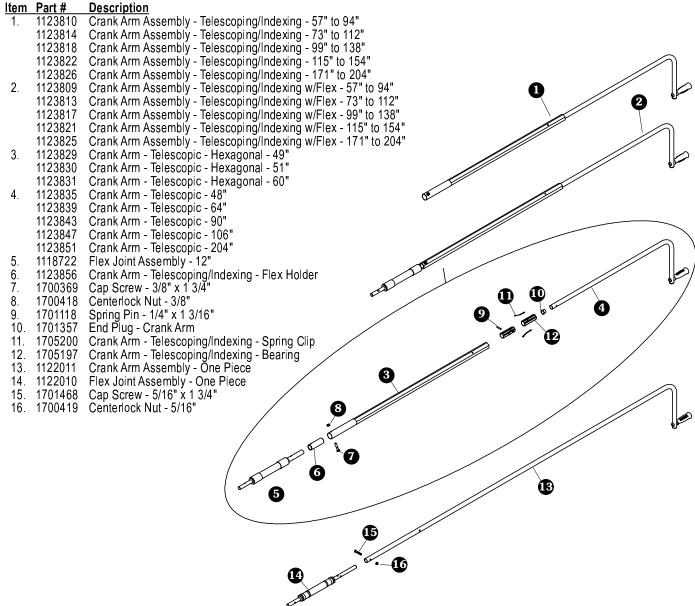
ltem	Part #	Description
1.	1700407	Hex Nut - 3/8"
2.	1700434	Lock Washer - 3/8"
3.	1118641	Offset Crank Retainer J-Hook
4.	1118657	Crank Retainer Base Plate
	1700400	Self-Tapping Screw - 3/8" x 1"
6.	1703134	Tension Spring
7.	1703133	Clevis Pin - 5/16" x 1 3/4"
8.	1700427	Flat Washer- 1/4"
9.	1700448	Cotter Pin - 3/32"
10.	1114600	Offset Pinless Crank Retainer Lock
11.	1100033	Crank Retainer Standoff - 7"
12.	1100306	Retainer Bushing
13.	1100040	Crank Retainer J-Hook
14.	1702996	Cap Screw - 1/2" x 1 1/4"
15.	1100574	Cable w/Snap
16.	1700526	Wire Lock Pin - 3/8" x 2/1/2"

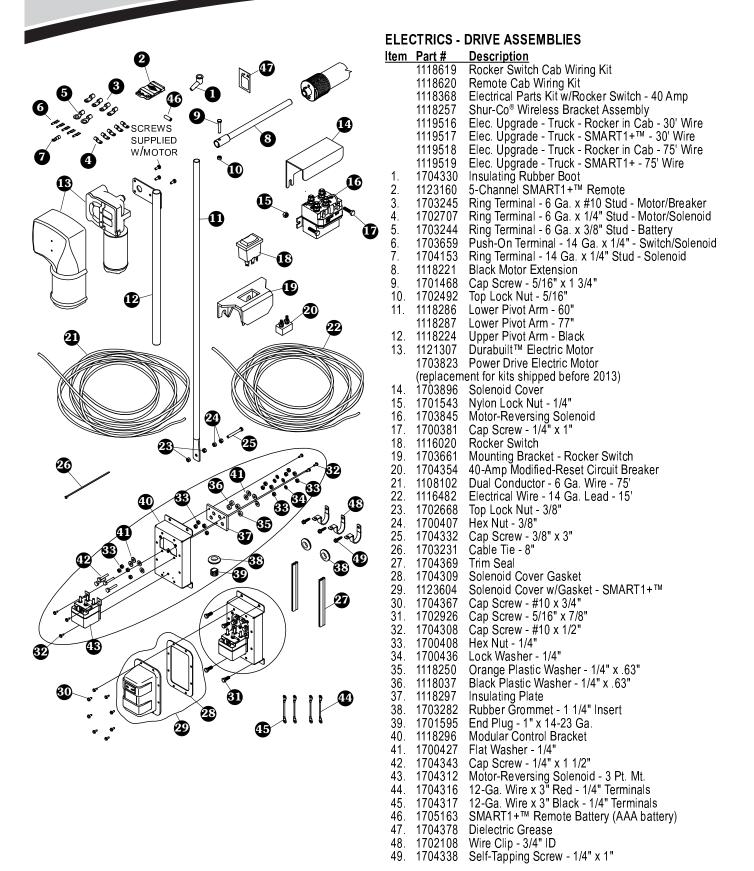


P/N 1118625 Rev. T Replacement Parts



CRANK OPTIONS





Our **Advanced Troubleshooting Guide** is available on our website: **http://www.shurco.com**, or call our Help Line: **1-866-748-7435**.

PROBLEM:	TRY THIS:
When operating the system, cables do not wind properly in the spool grooves.	Verify spools are not binding on roll tube. Remove, clean and re-grease, if required. See Springs and Spools.
	2. Verify tarp is centered on end caps and black plastic washers are correctly installed. Measure, center tarp and install washers. See <i>Tarp Installation</i> .
	3. Verify ratchets are correctly installed. Adjust from side to side. See Cables and Ratchets.
	4. Verify correct cable tension. Adjust as needed. See Cable Tension.
When operating the system, the tarp doesn't roll up evenly. Tarp binds on one or both ends.	Verify spools are not binding on roll tube. Remove, clean and re-grease, if required. See Springs and Spools.
	2. Verify cable tension is not too loose. Adjust as needed. See Cable Tension.
	3. Verify tarp has not been altered or improperly repaired. Verify tarp length and width have not changed and tarp is square.
When closed, the tarp doesn't become tight in the middle.	Verify cable tension. Adjust as needed. See Cable Tension.
	2. Verify correct number of ridge straps are installed and are in correct location. Move or install as needed. See Ridge Straps.
	3. Verify correct bow spacing and installation height and bows are not damaged. Bow height should be 1" to 2" above cap height. Move, adjust, repair or replace bows as needed. See Standard Bows.
The tarp is worn or has holes.	Verify tarp is not contacting any sharp edges. Remove sharp edges. See Box Preparation.
	2. Consult your local Shur-Co® dealer for repairs or order tarp repair kit.
	3. If required, replace tarp or parts with Genuine Shur-Co® parts.
The SMART1+™ remote is not working.	Make sure the batteries are placed correctly.
None of the lights on the remote turn on when I open the lid.	2. The batteries may be dead and must be replaced. High-capacity replacement batteries (two AAA batteries) may be purchased from Shur-Co® (P/N 1705163).
	3. The SMART1+™ remote may be damaged. Call Shur-Co's Help Line.

PROBLEM:	TRY THIS:
The SMART1+™ remote is not working. I can operate the system with the rocker switch but not with the remote. The SMART1+™ remote channel light (<i>Tarp System</i> , for example) is blinking, and when I press the <i>Open/</i>	 Make sure the remote is set to the right channel. If you cannot set the remote to the desired channel (<i>Tarp System</i>, for example), the remote must be reprogrammed. See the SMART1+™ Remote Programming instructions.
On button, the light blinks faster.	Make sure you are within a couple feet of the receiver and try again.
	a) If it works at short range but not at greater distances, you have a range problem. A new battery may be needed. If the remote battery is not the cause, call Shur-Co's Help Line.
	Reprogram the receiver. See the Receiver Programming instructions. If this doesn't work, call Shur-Co's Help Line.
The system will not operate with the rocker switch or with the SMART1+™ remote.	Make sure the master disconnect switch is turned to the "ON" position.
When I try to use the rocker switch or SMART1+™ remote, I don't hear any noises (a clicking noise, for example) from	The circuit breaker may have tripped. Wait one minute and try again.
the receiver.	3. Check the vehicle's battery to make sure it isn't dead.
	4. Check all connections from the battery to the system. Check for polarity, good connections and corrosion. Verify you have at least 12V on the back side of the receiver on the battery hookup posts.
	5. Call Shur-Co's Help Line.
The system will not operate with the rocker switch or with the SMART1+™ remote.	Verify you have at least 12V on the back side of the receiver on the battery hookup posts.
When I try to use the rocker switch or SMART1+™ remote I hear a clicking noise but nothing happens.	2. Call Shur-Co's Help Line.
The rocker switch is not sticking, but the motor continues to run after I release the rocker switch.	1. Call Shur-Co's Help Line.
The rocker switch is sticking.	Check the switch for excessive dirt, rocks or other objects. If the rocker switch cannot be cleaned, call Shur-Co's Help Line for a replacement receiver.
	Pressure Wash: Receiver may be pressure washed, but keep nozzle at least 3' from system while spraying.

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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.
- 3. Check cable tension and adjust as needed (see Cable Tension).

MANUAL OPERATING INSTRUCTIONS

Open tarp from closed postion:

- 1. Using both hands, carefully remove crank from crank retainer.
- 2. Move crank handle to operating position.
- 3. Turn crank clockwise to roll tarp open.
- 4. Return crank to other crank retainer and secure.

Close tarp from open position:

- 1. Using both hands, carefully remove crank from crank retainer.
- 2. Move crank handle to operating position.
- 3. Turn crank counter-clockwise to roll tarp closed.
- 4. Return crank to other crank retainer and secure.

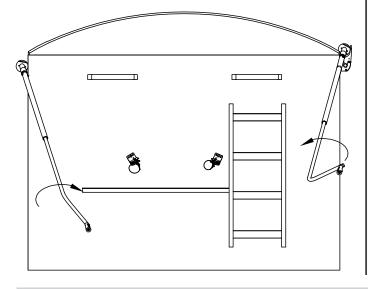
ELECTRIC OPERATING INSTRUCTIONS

Open tarp from closed position:

- 1. Press and hold 'OPEN' side of rocker switch or remote button.
- 2. Watch as tarp opens.
- 3. When tarp is fully open, release rocker switch.

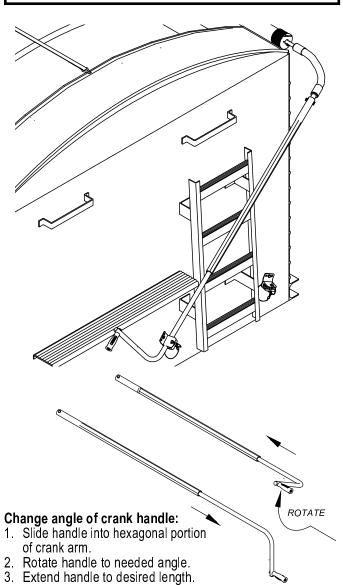
Close tarp from open position:

- 1. Press and hold 'CLOSE' side of rocker switch or remote button.
- 2. Watch as tarp closes.
- 3. When tarp is fully closed, release rocker switch or remote button.



SAFETY INSTRUCTIONS

- 1. Do not adjust ratchets while operating tarping system.
- 2. Do not load or unload trailer while tarp is closed.
- 3. Do not operate tarping system while box is raised or elevated.
- 4. Do not stand or walk on tarp or end caps.
- 5. Do not drive vehicle at highway speeds unless tarp is fully open or closed (fully closed is recommended.)



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

ATTENTION!

TARP MUST BE IN THE OPEN POSITION BEFORE UNLOADING OR LOADING.

DO NOT WALK OR STAND ON THE TARP OR END CAPS.

DO NOT OPERATE TARP WITH THE BOX IN A RAISED OR ELEVATED POSITION.

DO NOT OPERATE THIS VEHICLE AT HIGHWAY SPEEDS UNLESS THE TARP IS IN THE FULLY CLOSED OR FULLY OPEN POSITIONS. NOTE: DRIVING AT HIGHWAY SPEEDS IN THE FULLY CLOSED POSITION IS RECOMMENDED.

CABLE-LOK OPERATING INSTRUCTIONS - MANUAL

1) OPENING FROM A CLOSED POSITION	2) CLOSING FROM AN OPEN POSITION	CORRECT TENSION ADJUSTMENT	
Using Both Hands, Carefully Remove Crank From The Crank Retainer.	Using Both Hands, Carefully Remove Crank From The Crank Retainer.	REFER TO OPERATING MANUAL FOR	
Extend Crank Handle To Its Operating Position.	Extend Crank Handle To Its Operating Position.	MANUAL FOR PROPER TENSIONING	
Use Crank To Roll Tarp To Fully Open Position.	Use Crank To Roll Tarp To Fully Closed Position.	RATCHET HANDLE MUST BE IN LOCKED	
Return Crank To Crank Retainer And Secure.	Return Crank To Crank Retainer And Secure.	DOWN POSITION TO HOLD TENSION	

P/N: 1704412

Shur-Co.®, Yankton, SD 1-800-4 SHUR-LOK (1-800-474-8756)

NOTE: Manual system. Install warning decal shown above near crank retainer on box or all warranty claims will be void.

OPTIONS & ACCESSORIES

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

Includes adhesive, cleaner, 10' of tarp (specify color) and instructions.

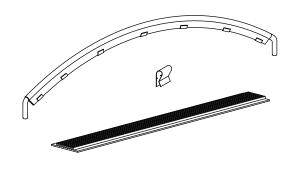


TARP OPTIONS

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

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.



P/N 1118625 Rev. T **Notes**

MORE QUALITY PRODUCTS FROM SHUR-CO®

- Genuine Replacement Tarps
- **■** Genuine Replacement Parts
- Agriculture Products
 - The Original Shur-Lok®
 - Shur-Lok® Junior
 - Premium Belt 'n Ratchet
 - Cable-Lok™
 - Turning Point™ Bow
 - 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
 - LiteALLTM Work Lights
 - Cable-Lok™ Electric Upgrade
 - Electric Turning Point™ Bow
 - Solar Power Pack

- Flatbed Products
 - ShurTite[™] Retractable Tarps
 - Stock Lumber & Steel Tarps
- Construction Products
 - The Original Shur-Lok®
 - Shur-Trak II™
 - Cover-Pro II®
 - Turning Point™ Bow
 - IronSide II™
 - Shur-Matic™
- SMARTrailer[™] Accessories for Construction Products
 - 4500 Series HD Electric w/Gate Flex™
 - Shur-Trak II™ Electric Upgrade
 - Cover-Pro II® Electric Upgrade
 - Electric Turning Point™ Bow
 - Solar Power Pack
- Custom Products
 - Fitted Truck Covers
 - Flat Utility Tarps
 - Bean Drill Covers
 - GustbusterTM Tarp Cords

