

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

P/N 1121682 Rev. L

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

Corporate HQ and Outlet Store SHUR-CO® of SOUTH DAKOTA 2309 Shur-Lok St., PO Box 713, Yankton, SD 57078 Ph 800.474.8756 | Fax 605.665.0501

SHUR-CO[®] of FLORIDA 3353 SE Gran Park Way, Stuart, FL 34997 Ph 800.327.8287 | Fax 772.287.0431

SHUR-CO[®] of IDAHO 610 N. 16th Ave., Caldwell, ID 83607 Ph 866.356.0246 | Fax 217.877.8270 SHUR-CO[®] of ILLINOIS

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

SHUR-CO[®] of NORTH DAKOTA 1746 4th Ave. NW, West Fargo, ND 58078 Ph 877.868.4488 | Fax 701.277.1283

SHUR-CO® of OHIO

4676 Lynn Rd. Rootstown, OH 44266 Ph 866.356.0242 | Fax 330.297.5599 SHUR-CO[®] of VERMILLION 1212 N. Norbeck St., Vermillion, SD Ph 800.474.8756 | Fax 605.665.0501

SHUR-CO® of CANADA 490 Elgin St., Unit #1 Brantford, Ontario N3S 7P8 Ph 800.265.0823 | Fax 519.751.3997

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 information, log on to our website: **www.shurco.com**

MESSAGE TO OWNERS

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

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

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

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

QUESTIONS? CALL OUR HELP LINE: 1-866-748-7435 MON-FRI 8 AM-5 PM CENTRAL TIME

SAFETY

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

SAFETY INSTRUCTIONS

- 1. Always wear safety glasses during installation and operation.
- 2. Stay clear of moving parts.
- 3. No other use of this system is authorized, except as designed.

RUST PREVENTION

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

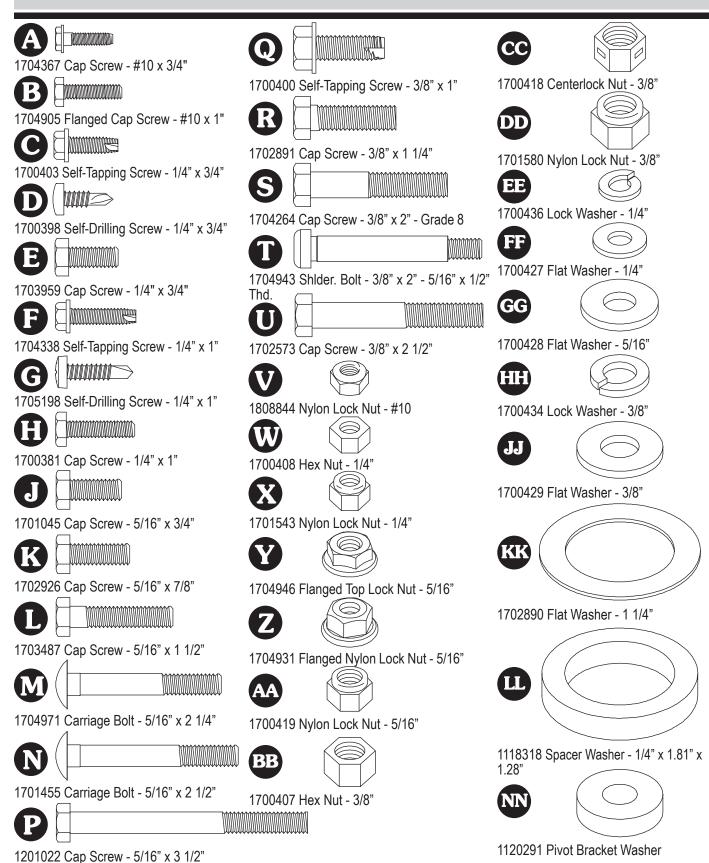
TABLE OF CONTENTS

Hardware Identification	1
Front Pivot Bracket/Pivot Pin Installation	2
Front Flex Arm & Electric Motor Installation	3-4
Rear Mounting Beam & Pivot Bracket Installation	5
Rear Flex Arm Installation - Top Hinge	6-7
Rear Flex Arm Installation - Side Hinge	8-9
Roll Tube Extension Installation - Top Hinge	10-12
Roll Tube Extension Installation - Side Hinge	13-15
Electric Mounting & Wiring	16-21
Operation	22
Conversion from Electric to Manual Power	23
Electric Motor Replacement	24
Replacement Parts	25-29

TOOLS REQUIRED

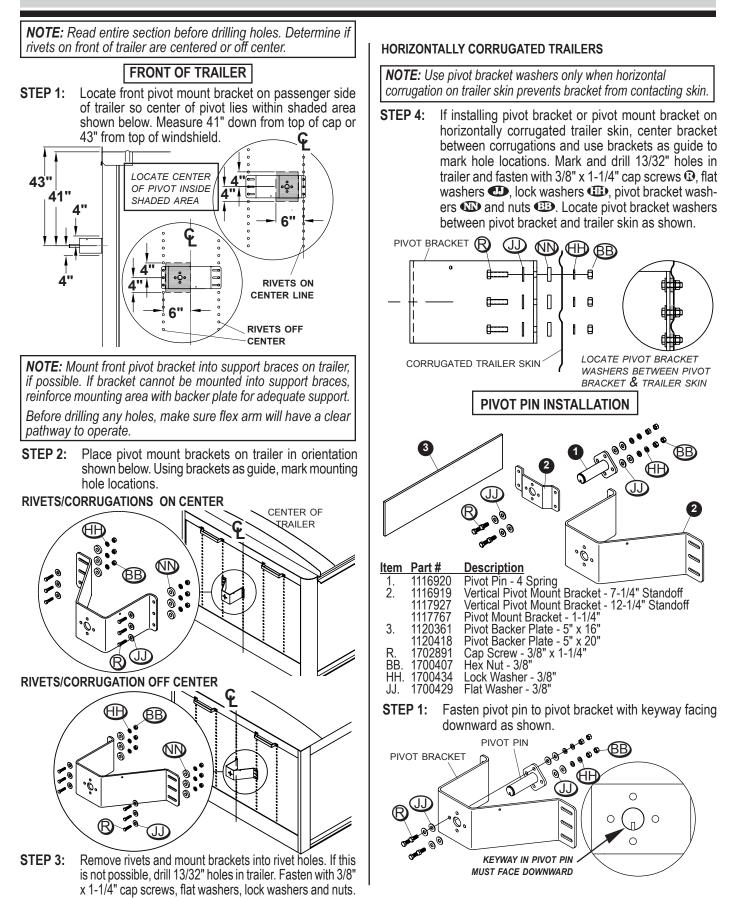
- 1. Welder
- 2. Hammer
- 3. Center Punch or Transfer Punch
- 4. #3 Phillips Insert Bit
- 5. Air or Electric Impact Wrench (9/16" deep socket)
- 6. 7/16" Deep Socket
- 7. 3/8" Combination Wrench
- 8. 9/16" Combination Wrench
- 9. 1/2" Combination Wrench
- 10. 1/8" Hex Wrench Long T-Handle
- 11. 3/16" Hex Wrench Long T-Handle (recommended)
- 12. 5/16" Drill Bit (for 3/8" self-tapping screws)
- 13. 11/32" Drill Bit
- 14. 13/32" Drill Bit
- 15. 3/8" Drill
- 16. 1 1/8" Hole Saw
- 17. 1 1/2" Hole Saw
- 18. 2" Hole Saw
- 19. Standard/Flathead Screwdriver
- 20. #2 Phillips Screwdriver
- 21. Utility Knife
- 22. Ratchet
- 23. Hack Saw (metal cutter)
- 24. Pliers
- 25. Snap Ring Pliers
- 26. Wire Cutters
- 27. Grinder
- 28. Tape Measure

Hardware Identification

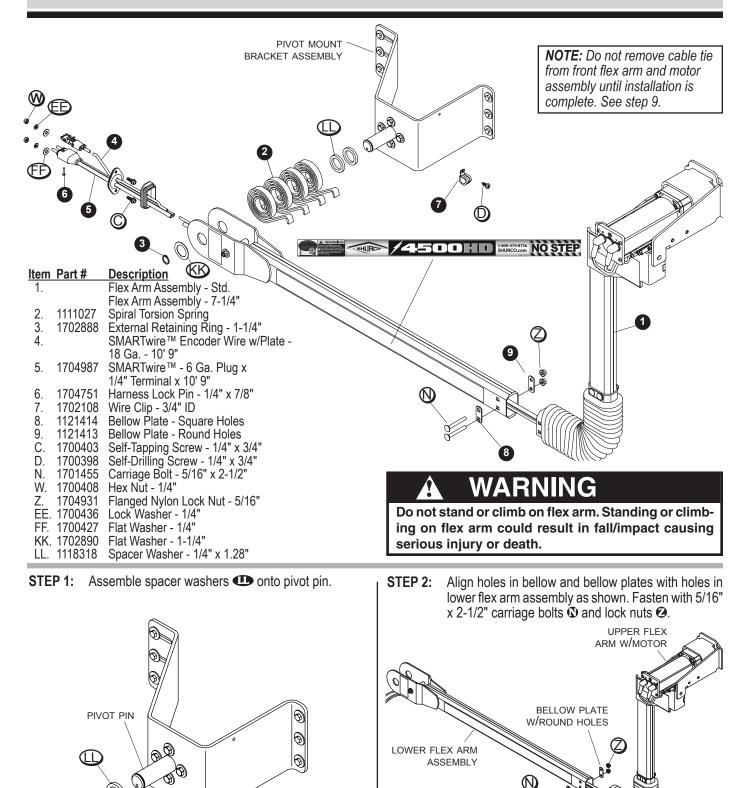


Inspect 4500 Series HD kit upon arrival.

NOTE: Use lock washers and nuts with self-tapping screws whenever possible. A minimum material thickness of 3/16" is required in order to use self-tapping screws without lock washers and nuts. Drill 13/32" holes if lock washers and nuts are used. Drill 5/16" holes if lock washers and nuts are not used.



Front Flex Arm & Electric Motor Installation



Shur-Co® HELP LINE: 1-866-748-7435

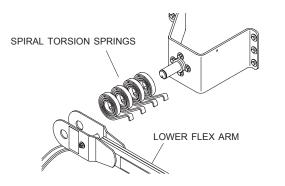
trailer as shown.

BELLOW PLATE W/SQUARE HOLES

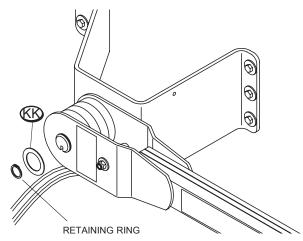
NOTE: Motor assembly on upper flex arm must face toward

FLEX ARM JOINT W/BELLOW

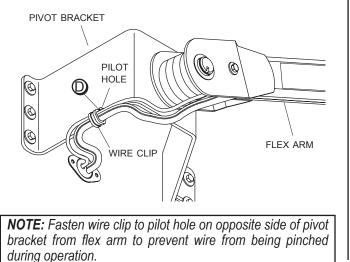
STEP 3: Assemble spiral torsion springs and lower flex arm onto pivot pin. Hook springs over 3/8" x 3-1/2" cap screw and spacer tube.



STEP 4: Secure with 1-1/4" flat washer 3 and retaining ring.

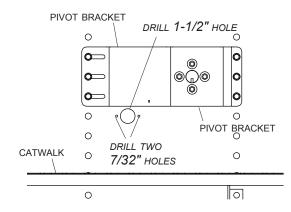


STEP 5: Choose appropriate pilot hole on pivot bracket to route 6-ga. wire from flex arm through trailer skin. Fasten wire clip to pilot hole with 1/4" x 3/4" self-drilling screw.

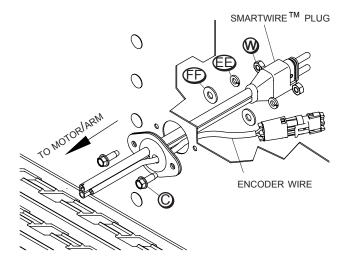


NOTE: Wire lengths are predetermined. Before installing SMARTwire[™] components, review and confirm wire routing so wires reach components with ample room for connection.

STEP 6: Measure 11" horizontally from center line of trailer and 1" down from lower edge of pivot bracket. Mark and drill 1-1/2" hole through trailer skin.



- **STEP 7:** Align adapter plug with 1-1/2" hole. Using wiring plate as guide, mark and drill two 7/32" holes as shown.
- **STEP 8:** Fasten adapter plug to front of trailer with 1/4" x 3/4" self-tapping screws, flat washers, lock washers and nuts.



STEP 9: Remove cable tie from front arm/motor assembly before operating system.

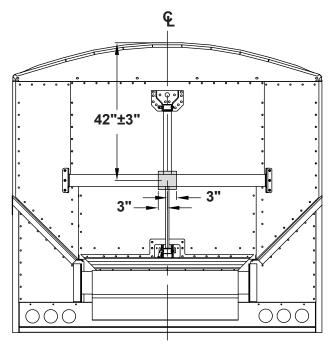
Rear Mounting Beam & Pivot Bracket Installation

Item Part #	Description	
1. 1116920	Pivot Pin - 4 Spring	
2. 1116919		
1117767		
3	Mounting Beam	
4. 1117816	Pivot Bracket - Side Hinge	3
Q. 1700400	Pivot Bracket - Side Hinge Self-Tapping Screw - 3/8" x 1" Cap Screw - 3/8" x 1-1/4"	
R. 1702891	Cap Screw - 3/8" x 1-1/4"	
BB. 1700407	Hex Nut - 3/8"	
	Lock Washer - 3/8"	
	Flat Washer - 3/8"	
* Specify size		

NOTE: Fasten rear mounting beam to structural door only. DO NOT mount beam to door skin. Tarping system will fail if beam is mounted to door skin.

Before drilling any holes, make sure flex arm has clear pathway to operate. Read entire section before drilling.

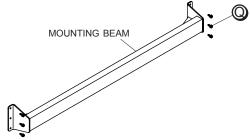
STEP 1: Locate mounting beam so center of mounting beam lies within shaded area shown.



STEP 2: Place mounting beam on trailer as shown. Using beam as guide, determine mounting hole locations.

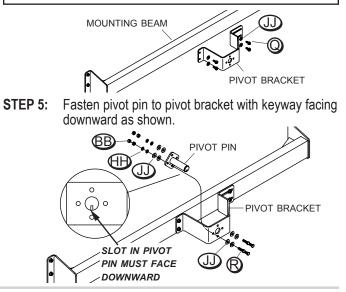
NOTE: On trailers with knife gate, mounting beam must be centered from left to right. Verify bolt locations do not interfere with operation of knife gate or knife gate track.

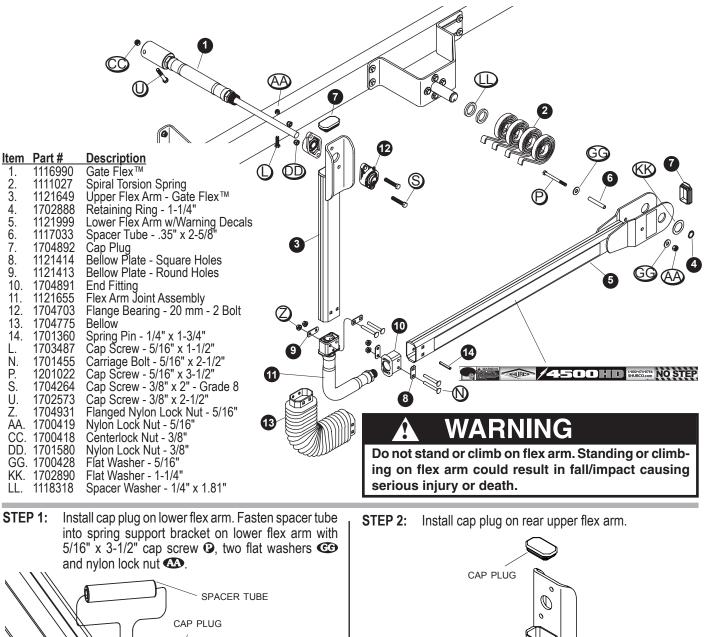
STEP 3: Remove rivets and fasten mounting beam into rivet holes. If not possible, drill 5/16" holes in trailer. Fasten with 3/8" x 1" self-tapping screws.

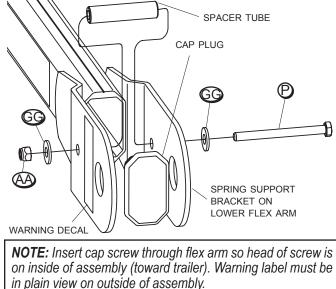


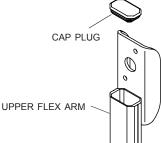
STEP 4: Center pivot bracket vertically on mounting beam. Move pivot bracket from left to right until pivot pin falls in shaded area shown in step 1. Using holes in pivot bracket as guide, mark and drill 5/16" holes. Fasten pivot bracket to beam with 3/8" x 1" self-tapping screws and washers.

NOTE: If using optional low-profile pivot mount bracket, complete step 5 before step 4.

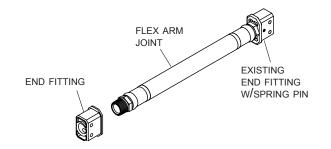








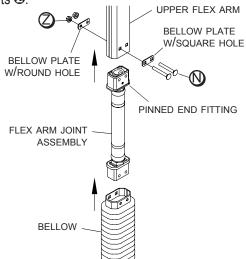
STEP 3: Thread end fitting onto end of flex arm joint assembly. Tighten so end fitting is parallel to existing end fitting.



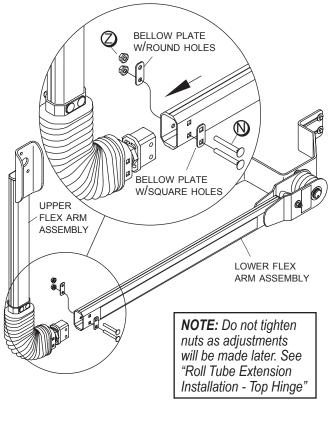
Shur-Co[®] HELP LINE: 1-866-748-7435

Rear Flex Arm Installation - Top Hinge - continued

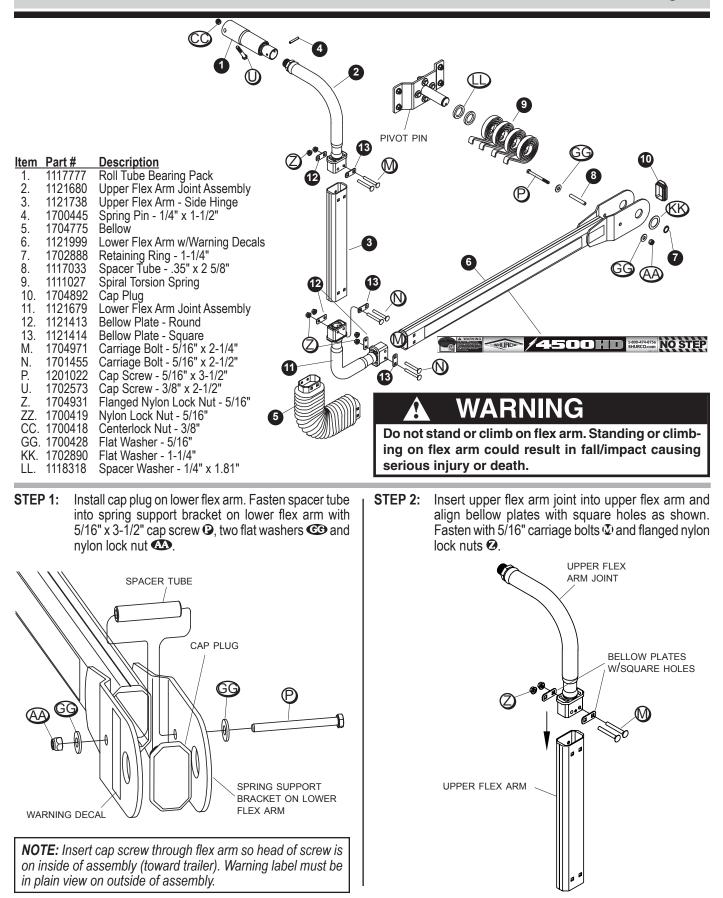
STEP 4: Insert flex arm joint into upper flex arm and slide bellow over flex arm joint. Align holes in upper flex arm, bellow plates, flex arm joint and bellow. Fasten with 5/16" carriage bolts 𝔅 and flanged nylon lock nuts 𝔅.



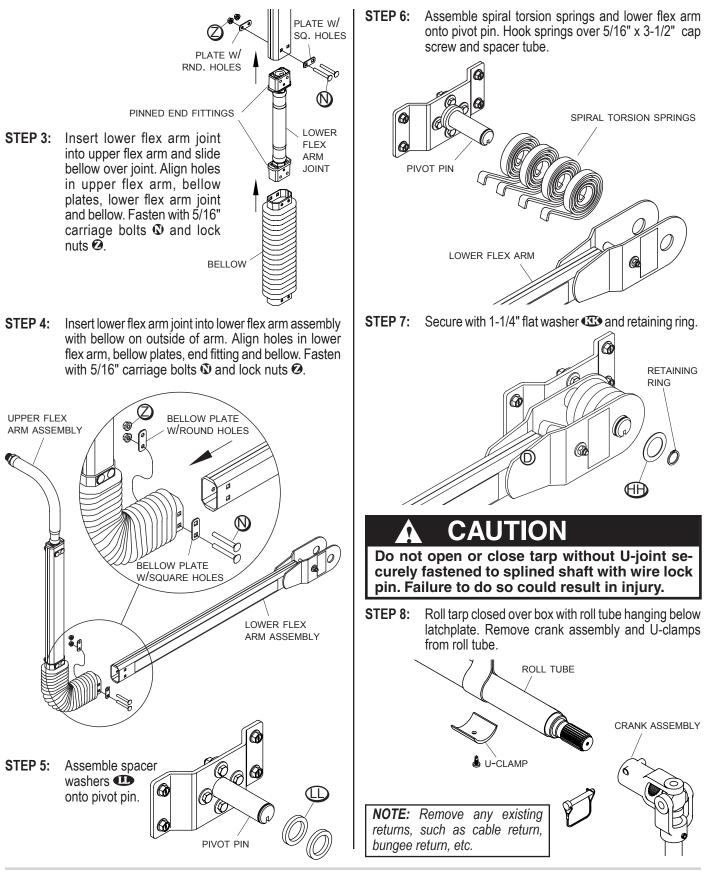
STEP 5: Align holes in end fittings and bellow plates with holes in lower flex arm assembly as shown. Temporarily install 5/16" x 2-1/2" carriage bolts 𝔅 and lock nuts 𝔅.

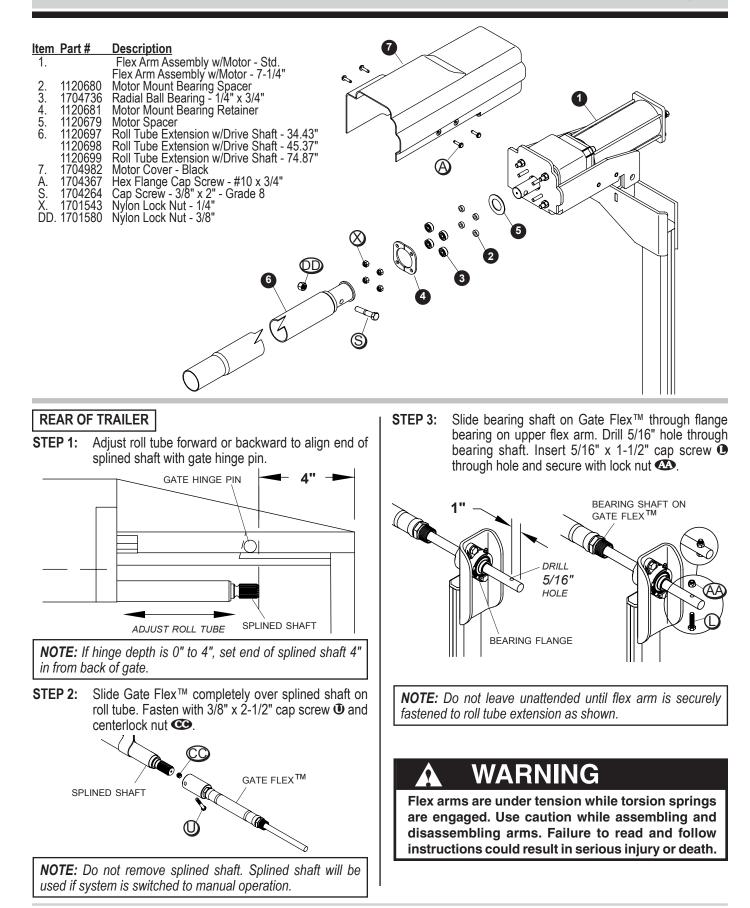


STEP 6: Assemble spacer washers (• onto pivot PIVOT PIN Ø 0 pin. Ø STEP 7: Assemble spiral torsion springs and lower flex arm onto pivot pin. Hook springs over 5/16" x 3-1/2" cap screw and spacer tube. PIVOT PIN 6 SPIRAL TORSION Ø SPRINGS LOWER FLEX ARM STEP 8: Secure with 1-1/4" flat washer 🕨 0 and retaining ring. Ø (KR RETAINING RING STEP 9: Position flange bearings as shown and fasten to bearing mount plate with 3/8" x 2" cap screws (9) and lock nuts ØD \bigcirc DD BEARING MOUNT PLATE WARNING Flex arms are under tension while torsion springs are engaged. Use caution while assembling and disassembling arms. Failure to read and follow instructions could result in serious injury or death.

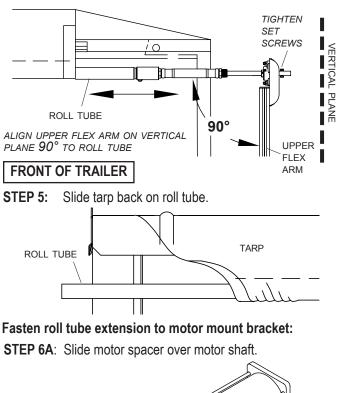


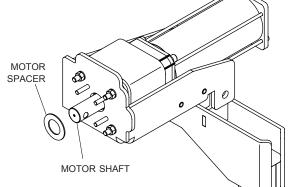
Rear Flex Arm Installation - Side Hinge - continued



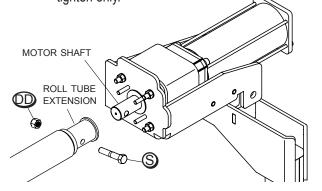


STEP 4: Align upper flex arm in vertical plane 90° to roll tube. Tighten set screws in flush mount bearing.

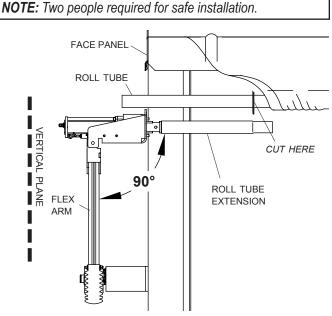




STEP 6B: Slide roll tube extension over motor shaft. Fasten with 3/8" x 2" cap screws ஹ and lock nuts ୠ. Finger tighten only.

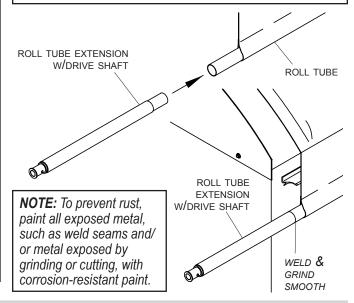


STEP 7: Hold flex arm with motor and roll tube extension in vertical plane to trailer and 90° to roll tube. Mark and cut roll tube at location shown.

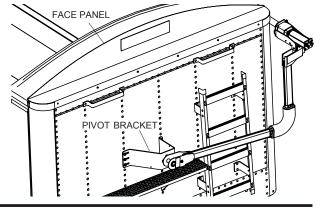


- **STEP 8:** Unfasten and remove motor from roll tube extension. Remove roll tube extension from roll tube. Cut roll tube at marked location.
- **STEP 9:** Insert swaged end of roll tube extension w/drive shaft into roll tube. Align extension straight with roll tube and weld all around. Grind smooth.

NOTE: Pull roll tube away from tarp and trailer before welding to protect from weld spatter. Align roll tube extension straight with roll tube before welding so tarping system will roll smoothly.



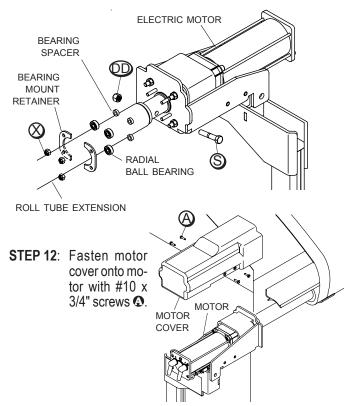
STEP 10: Slide roll tube/roll tube extension weldment back into position and align upper flex arm on front of trailer. Follow step 11 to install motor, positioning motor as shown below. Make sure torsion springs load when tarp opens.



WARNING

Flex arms are under tension while torsion springs are engaged. Use caution while assembling and disassembling arms. Failure to read and follow instructions could result in serious injury or death.

STEP 11: Refasten and secure roll tube to electric motor shaft with 3/8" x 2" cap screw S and lock nut ID. Install bearing spacers, radial ball bearings and bearing mount retainer and secure with 1/4" lock nuts S.

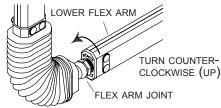


STEP 13: Refasten tarp to roll tube with existing U-clamps and screws. Tighten all fasteners securely. Tighten front and rear flex arm connections.

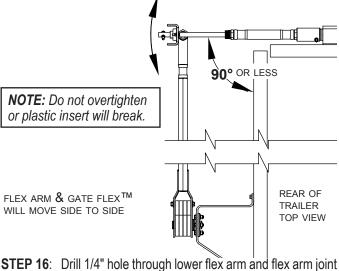
NOTE: Verify flex arm is on vertical plane and parallel to face panel before proceeding. Make sure all fasteners holding motor to upper flex arm bracket are tightened securely.

REAR OF TRAILER

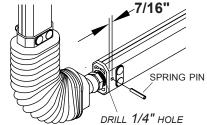
STEP 14: Place wrench on flex arm joint next to lower flex arm. Turn flex arm joint counter-clockwise (up) to move upper flex arm and Gate Flex[™] from side to side.



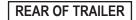
STEP 15: Keep turning flex arm joint until Gate Flex[™] is parallel to side of trailer and 90° to rear door.



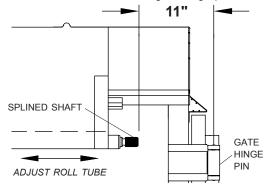
STEP 16: Drill 1/4" hole through lower flex arm and flex arm joint as shown. Install 1/4" x 1-3/4" spring pin into drilled hole.



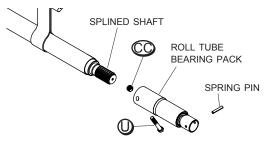
STEP 17: Remove tension from rear arm by lowering roll tube to lowest position on side of trailer. Disconnect Gate Flex™ from splined shaft on roll tube. Remove carriage bolts and plates from lower arm. Slide bellow into position and re-assemble carriage bolts and plates. Tighten nuts and reconnect Gate Flex™ to splined shaft.



STEP 1: Adjust roll tube forward or backward so end of splined shaft is 11" from center line of gate hinge pin.

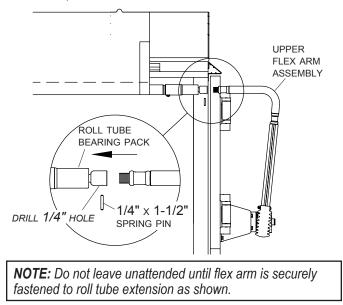


STEP 2: Slide roll tube bearing pack completely over splined shaft on roll tube. Fasten with 3/8" x 2-1/2" cap screw
● and centerlock nut ●.



NOTE: Do not remove splined shaft. Splined shaft will be needed if system is switched to manual operation.

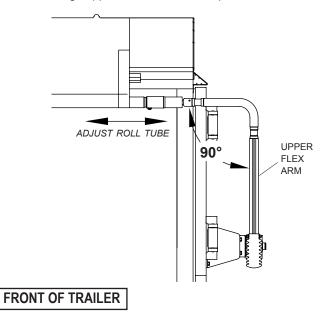
STEP 3: Screw upper flex arm assembly into roll tube bearing pack. Drill 1/4" hole through bearing pack and secure flex arm joint to bearing pack with 1/4" x 1-1/2" spring pin.



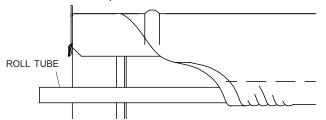
WARNING

Flex arms are under tension while torsion springs are engaged. Use caution while assembling and disassembling arms. Failure to read and follow instructions could result in serious injury or death.

STEP 4: Align upper flex arm in vertical plane 90° to roll tube.

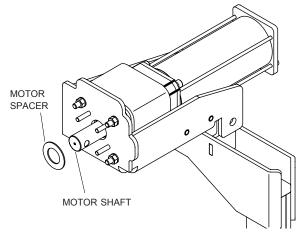


STEP 5: Slide tarp back on roll tube.

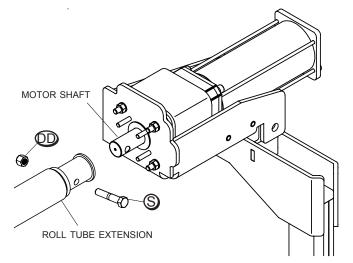


Fasten roll tube extension to motor mount bracket:

STEP 6A: Slide motor spacer over motor shaft.

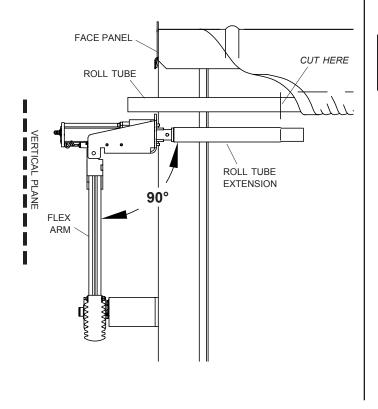


STEP 6B: Slide roll tube extension over motor shaft. Fasten with 3/8" x 2" cap screws 𝔅 and lock nuts 𝔅. Finger tighten only.



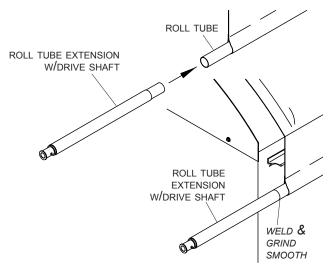
STEP 7: Hold flex arm with motor and roll tube extension in vertical plane to trailer and 90° to roll tube. Mark and cut roll tube at location shown.

NOTE: Two people are required for safe installation.



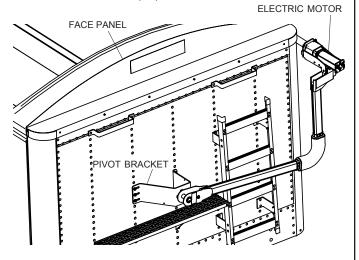
- **STEP 8:** Unfasten and remove motor from roll tube extension. Remove roll tube extension from roll tube. Cut roll tube at marked location.
- **STEP 9:** Insert swaged end of roll tube extension w/drive shaft into roll tube. Align extension straight with roll tube and weld all around. Grind smooth.

NOTE: Pull roll tube away from tarp and trailer before welding to protect from weld spatter. Align roll tube extension straight with roll tube before welding so tarping system will roll smoothly.



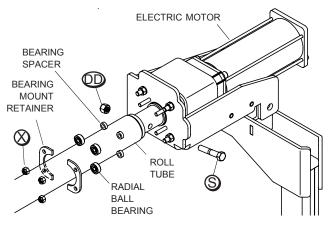
NOTE: To prevent rust, paint all exposed metal, such as weld seams and/or metal exposed by grinding or cutting, with corrosion-resistant paint.

STEP 10: Slide roll tube/roll tube extension weldment back into position and align upper flex arm on front of trailer. Follow steps 6 A and B to install motor, positioning motor as shown below. Make sure torsion springs load when tarp opens.



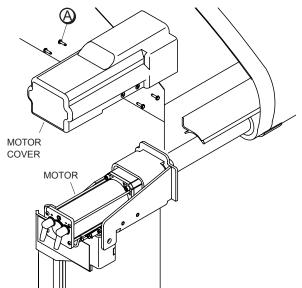
WARNING

Flex arms are under tension while torsion springs are engaged. Use caution while assembling and disassembling arms. Failure to read and follow instructions could result in serious injury or death. STEP 11: Refasten and secure roll tube to electric motor shaft with 3/8" x 2" cap screw S and lock nut ID. Install bearing spacers, radial ball bearings and bearing mount retainer and secure with 1/4" lock nuts S.

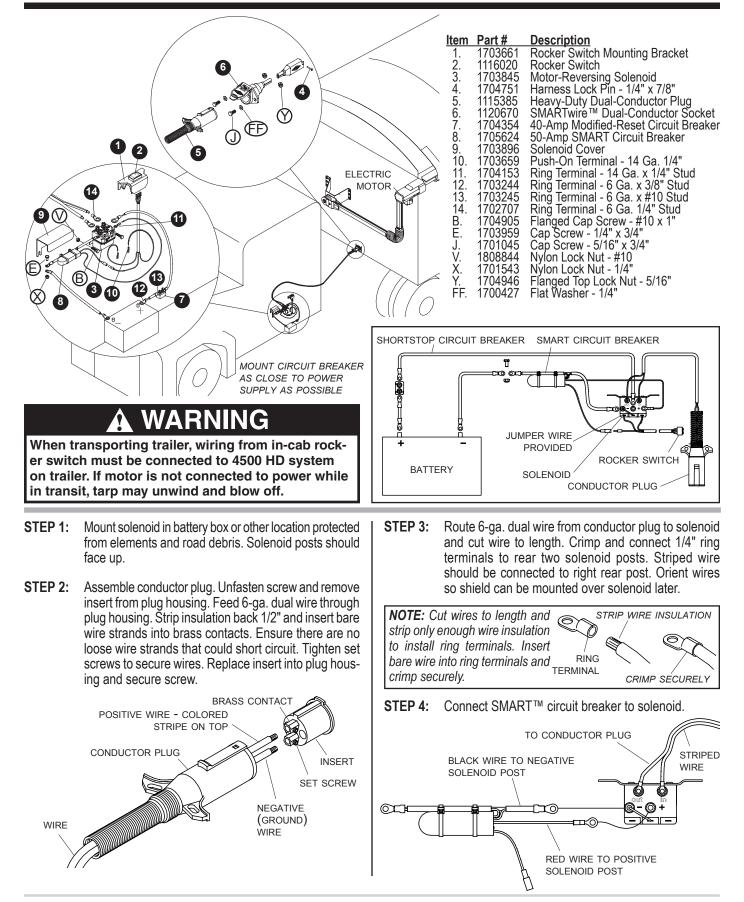


NOTE: Verify flex arm is on vertical plane and parallel to face panel before proceeding. Make sure all fasteners holding motor to bearing mount plate to upper flex arm are tightened securely.

STEP 12: Fasten motor cover onto motor with #10 x 3/4" screws ①.



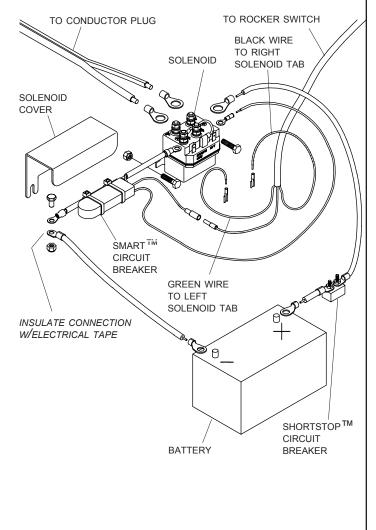
STEP 13: Refasten tarp to roll tube with existing U-clamps and screws. Tighten all fasteners securely. Tighten front and rear flex arm connections.



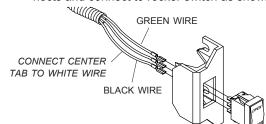
STEP 5: Connect SMART[™] breaker to battery. Make jumper out of black 6-ga. wire (no stripe). Connect one end to battery negative post and bolt other ring terminal to SMART[™] breaker. Insulate bolted connection with electrical tape.

NOTE: When splitting dual 6-ga. wire into separate halves to make jumper wires, use sharp knife to split webbing in order to prevent insulation from tearing and exposing metal strands.

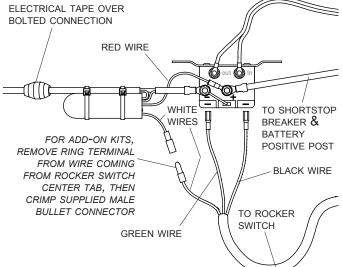
STEP 6: Locate ShortStop[™] circuit breaker within 1' of battery positive post. Make jumper wires out of 6-ga. wire (with stripe) for connecting ShortStop[™] breaker between positive battery post and positive solenoid post. Connect breaker to positive solenoid post, but do not connect breaker to positive battery post at this time.



STEP 7: Mount rocker switch in cab in convenient location on dash panel or door jamb. Crimp female quick disconnects and connect to rocker switch as shown.



STEP 8: Route 14-ga. 3-conductor cable between rocker switch and solenoid.



- **STEP 9:** Mount solenoid cover over solenoid and tighten fasteners.
- **STEP 10**: Connect ShortStop[™] breaker to battery positive post and test operation.

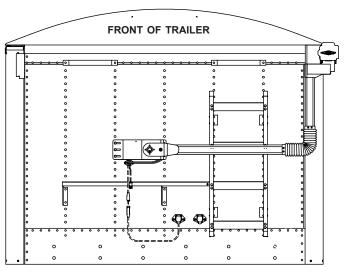
OPERATION

A) Check motor direction by activating switch to OPEN. If switch is running system backwards, swap green and black quick disconnects on solenoid.

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, but before it tightens against tarp stops.

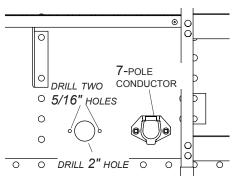
NOTE: Release switch at end of cycle or SMART[™] circuit breaker will trip. SMART[™] breaker will reset after rocker switch is released. SMART[™] breaker should always trip before ShortStop breaker[™].



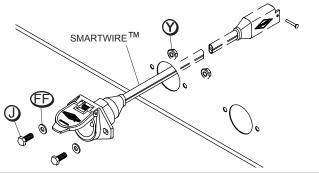
NOTE: Wire lengths are predetermined. Before installing SMARTwire[™] components, review and confirm wire routing so wires reach components with ample room for connection.

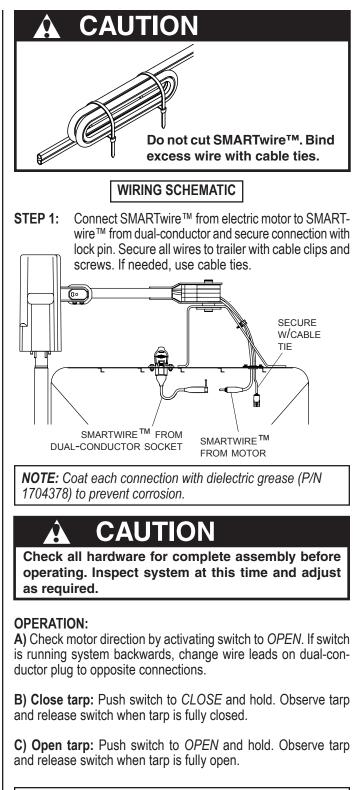
DUAL CONDUCTOR

STEP 1: Locate dual-pole conductor socket near 7-pole conductor socket as shown. Determine location and drill 2" hole through trailer skin.



- **STEP 2:** Align socket over 2" hole. Using holes in flanges on socket as guide, mark and drill two 5/16" holes.
- **STEP 3:** Fasten conductor socket to trailer with 5/16" x 3/4" cap screws **①**, flat washers **①** and nuts **②**.

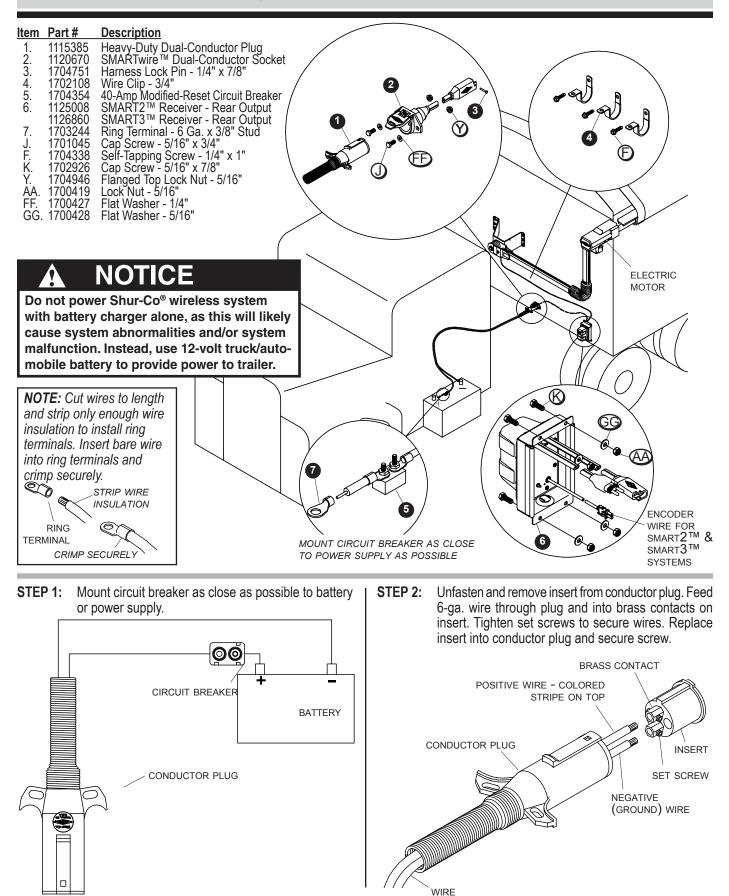




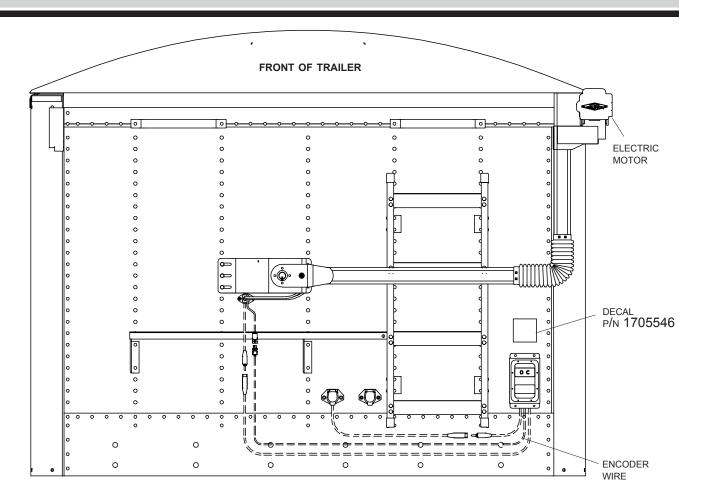
NOTE: Release switch at end of cycle or modified-reset circuit breaker will trip. After breaker resets, switch will activate motor again. To reduce unnecessary strain on tarp components, release switch at end of each cycle.

Shur-Co[®] HELP LINE: 1-866-748-7435

Wireless Receiver - Cab Wiring



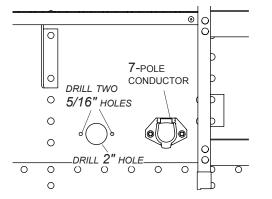
Shur-Co® HELP LINE: 1-866-748-7435



NOTE: Wire lengths are predetermined. Before installing SMARTwire[™] components, review and confirm wire routing so wires reach components with ample room for connection.

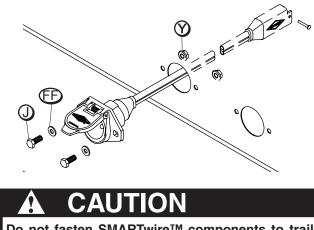
DUAL-CONDUCTOR SOCKET

STEP 1: Locate dual-pole conductor socket near 7-pole conductor socket as shown. Determine location and drill 2" hole through trailer skin.



STEP 2: Align socket over 2" hole. Using holes in flanges on socket as guide, mark and drill two 5/16" holes.

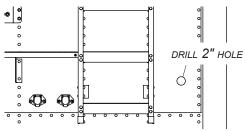
STEP 3: Fasten conductor socket to trailer with 5/16" x 3/4" cap screws **①**, flat washers **①** and nuts **①**.



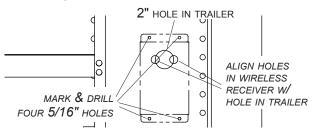
Do not fasten SMARTwire™ components to trailer through hopper walls.

SHUR-CO® WIRELESS RECEIVER

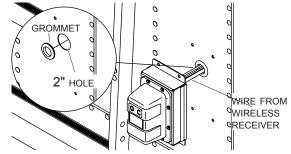
STEP 1: In order to clear travel area of front arm, locate Shur-Co[®] wireless receiver as low as possible on front of trailer. Determine location and drill 2" hole through trailer skin.



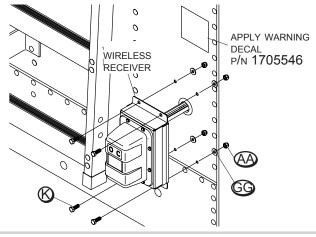
STEP 2: Align holes in wireless receiver over 2" hole in trailer as shown below. Using holes on flanges on receiver as guide, mark and drill four 5/16" holes as shown.



STEP 3: Install grommet into 2" hole. Insert wire from wireless receiver through grommet.

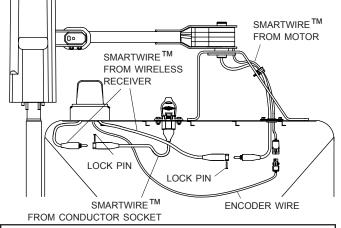


 STEP 4: Align holes on wireless receiver with holes on trailer. Fasten receiver to trailer with 5/16" x 7/8" cap screws
 Ock washers Co and nuts Adhere warning decal P/N 1705546 above receiver in location shown.



WIRING SCHEMATIC

STEP 1: Connect SMARTwire[™] from wireless receiver to SMARTwire[™] from electric motor. Connect SMARTwire[™] plug from wireless receiver to SMARTwire[™] from dual-conductor socket. Secure connections with lock pins. If you have SMART3[™] or SMART2[™] system, connect encoder wire from receiver to encoder wire from motor. Secure wires to trailer with cable clips and screws. If needed, use cable ties.

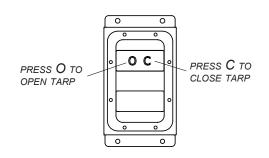


NOTE: Coat each connection with dielectric grease (P/N 1704378) to prevent corrosion.

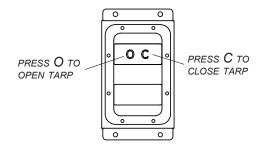
Check all hardware for complete assembly before operating. Inspect system at this time and adjust as required.

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

STEP 2: Check motor direction by pressing either button. If button is released and operation continues, system is in *Express Mode*. To stop operation, press button again. If switch is running system backwards, program remote to wireless receiver and rewire as directed in troubleshooting guide in remote instructions.



Operation



NOTE: 4500 Series HD trailer-mounted control boxes now operate in EXPRESS MODE. Pressing O or C button on control box initiates express open or close operation. After that, pressing either button will stop tarp operation. If neither button is pressed, operation will automatically stop at end of travel. On SMART2™ systems, if travel stops are not set, trailer-mounted control box operates in MANUAL (momentary) MODE. Remotes for both systems are shipped with tarp channel set to EXPRESS MODE and can be configured as desired.

NOTE: Tarp systems will operate in **EXPRESS MODE** when using buttons on trailer-mounted control box. if encoder wires are connected. For SMART2[™] systems, travel stops must also be set, otherwise you must press and hold buttons. When in **EXPRESS MODE**, press and release buttons to open and close tarp (operation will continue until complete after releasing button). When in MANUAL MODE, press and hold buttons (operation will stop if button is released). See remote instruction manual for detailed instructions on remote operation.

NOTE: Tarp systems operate in **EXPRESS MODE** when commanded to operate from buttons on trailer-mounted control box. Closing remote lid or pressing select button will not stop system in this case. Pressing OPEN or CLOSE button on remote will stop system if in range.

NOTE: Tarp systems operate in **EXPRESS MODE** when using buttons on trailer-mounted control box. if encoder wires are connected. For SMART2[™] systems, travel stops must also be set. Otherwise you must press and hold buttons (see remote instructions for SMART2™ systems).



DO NOT OPERATE MOTORIZED SYSTEMS WHILE INDIVIDUALS **BOX/TRAILER/HOPPER.**

THIS TARP SYSTEM OPERATES IN EXPRESS MODE. UPON PRESSING THE OPEN/CLOSE BUTTON THE TARP SYSTEM WILL CONTINUE TO TRAVEL TO THE END STOPS. TO STOP THE MOTOR, PRESS EITHER BUTTON. READ OWNERS MANUAL BEFORE **OPERATING. CONTACT SHUR-CO® FOR ALL TARP** SYSTEM QUESTIONS AT 1-866-748-7435.

NOTICE

Decal shown above must be placed above wireless receiver on front of box.

WARNING

Stay clear of roll tarp and arm(s) area of travel during operation. Failure to do so could result in serious injury or death.



WARNIN

Stay clear of the roll tarp and arm(s) sweep area, from front-to-back, during operation. Failure to do so may result in a fall/impact causing serious injury or death. For repair/service of equipment, reference manual for proper safety precautions before proceeding. Decal P/N 1705523



Electric to Manual Power Conversion - Top Hinge

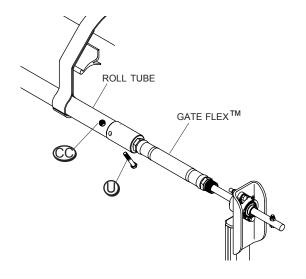
WARNING

Flex arms are under tension while torsion springs are engaged. Use caution while assembling and disassembling arms. Failure to read and follow instructions could result in serious injury or death.

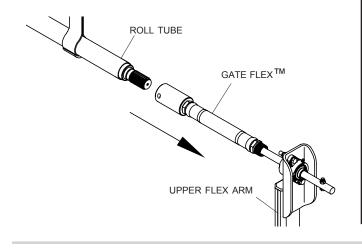
NOTE: Stre manual crank arm either in truck or mounted to trailer. (Example: above kingpin in apex.)

Perform following steps to convert 4500 Series HD Electric tophinge system to manual crank operation. Same steps apply to convert side-hinge system.

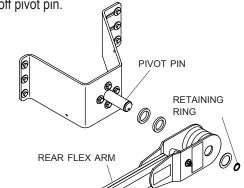
STEP 1: Close tarp but let roll tube hang loose under latchplate. Remove 3/8" x 2-1/2" cap screw **①** and lock nut **③** from Gate Flex[™].



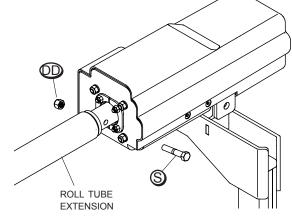
STEP 2: Carefully slide Gate Flex[™] off roll tube. Flex arm will be under tension and have some downward force.



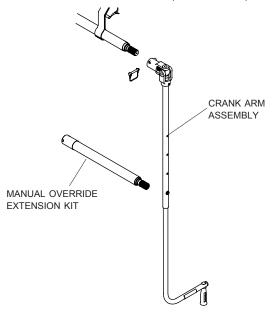
STEP 3: Remove retaining ring on rear flex arm. Carefully slide arm off pivot pin.

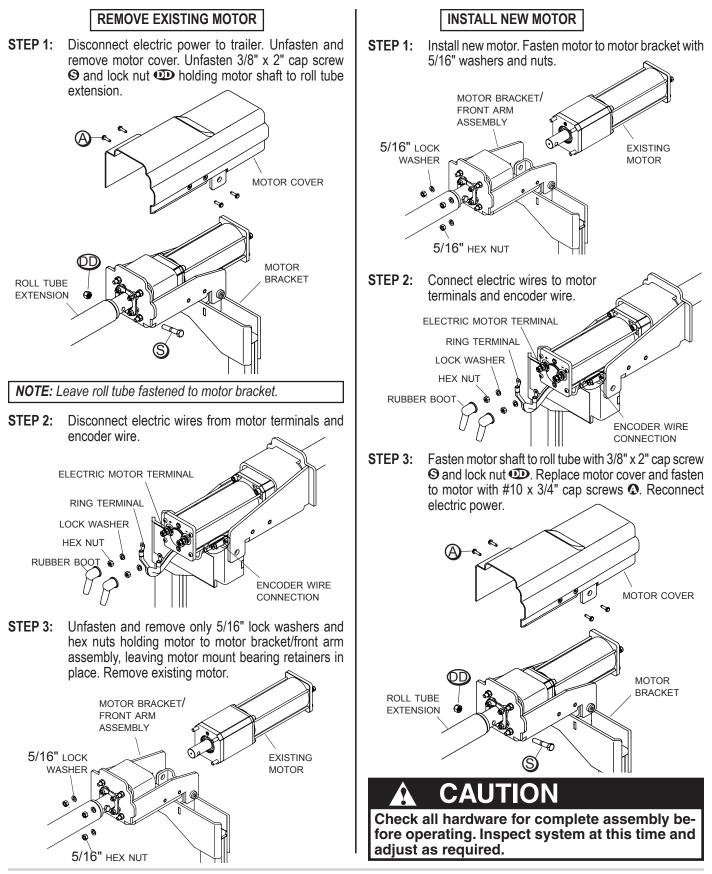


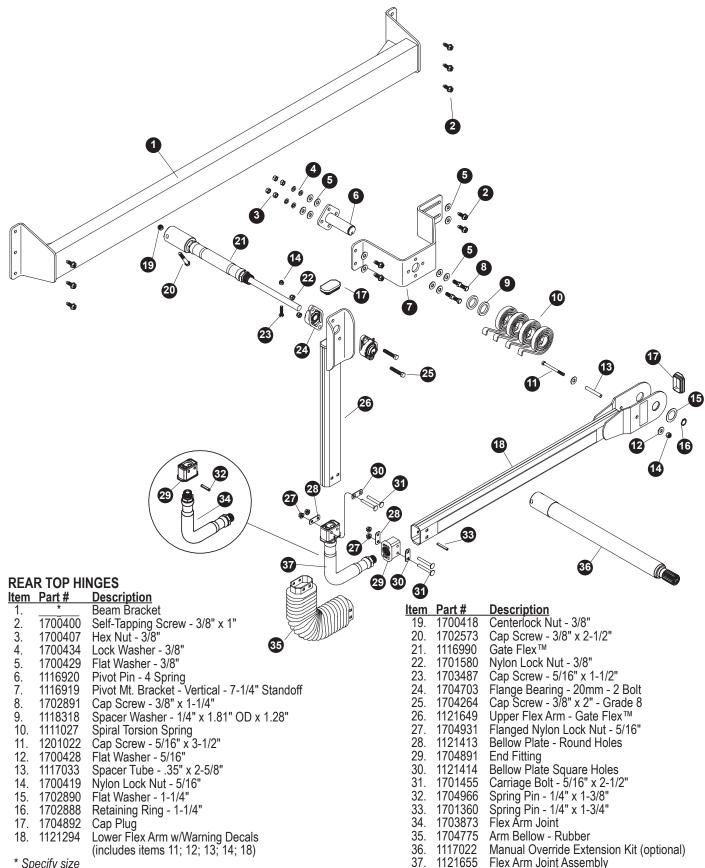
STEP 4: At front of trailer, remove 3/8" x 2" cap screw S and lock nut D from motor shaft and roll tube extension connection.



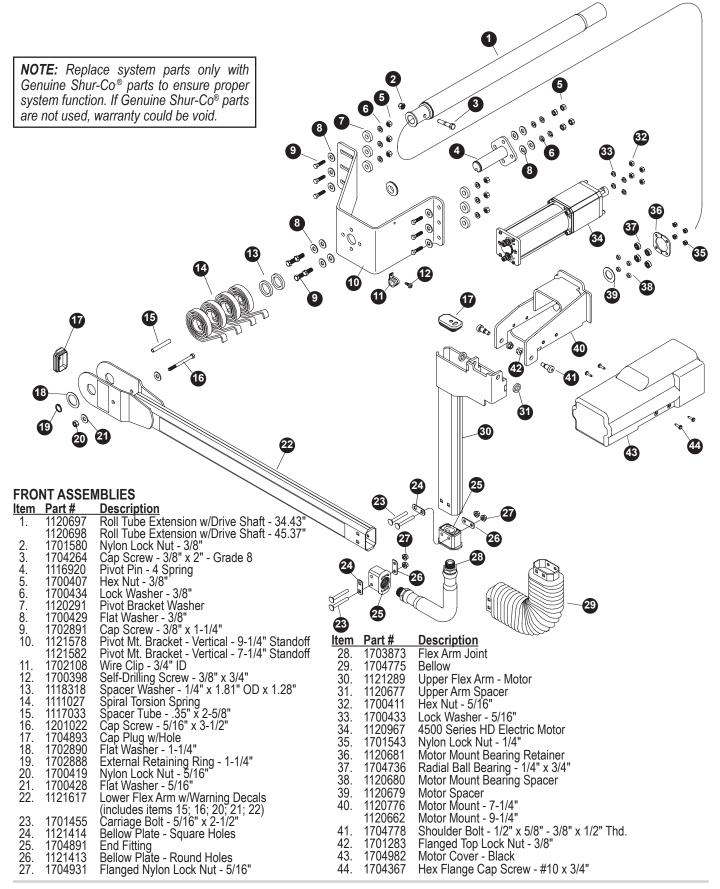
STEP 5: Install crank arm assembly as shown in Shur-Lok[®] owner's manual. Manual may be viewed at http:// www.shurco.com. You may need optional manual override extension kit (P/N 1117022).

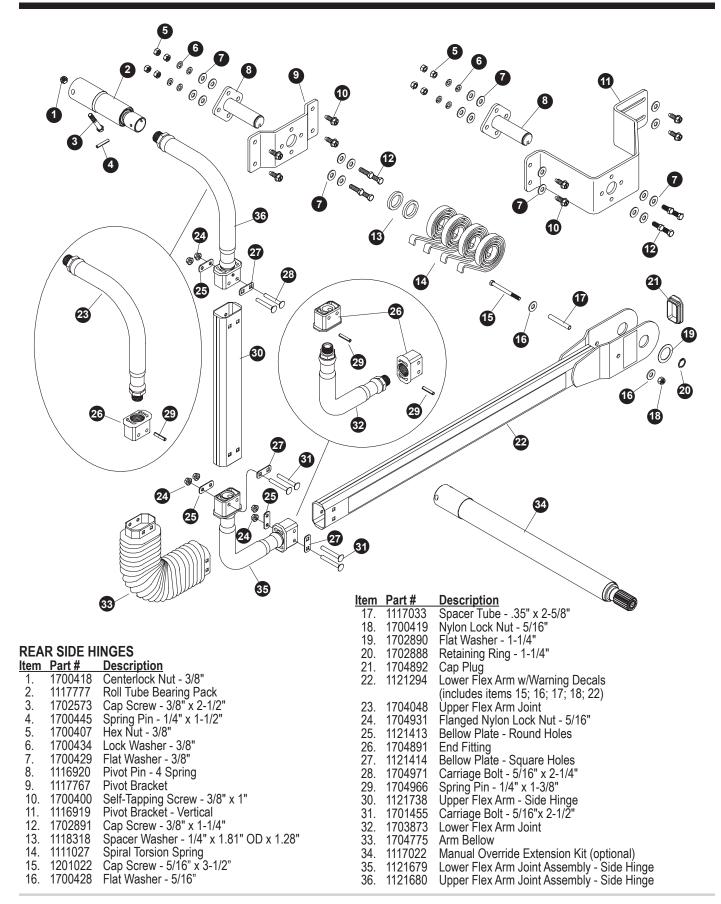


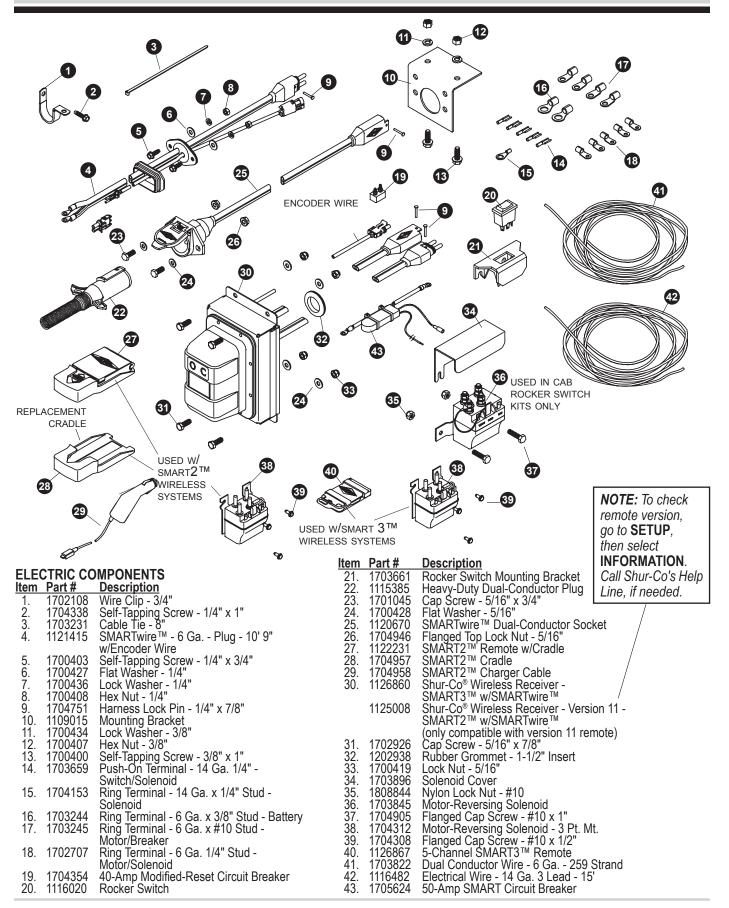


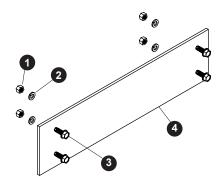


* Specify size









PIVOT BACKER PLATES

/4"
x 16"
x 20"

MORE QUALITY PRODUCTS FROM SHUR-CO®

- Genuine Replacement Tarps
- Genuine Replacement Parts
- Agriculture Products
 - The Original Shur-Lok®
 - Turning Point[™] Bow
 - Shur-Lok[®] Junior
 - Premium Belt 'n Ratchet
 - Cable-LokTM
 - Tater-Top[™]
- SMARTrailer[™] Accessories for Agriculture Products
 - SMART2TM Remote
 - SMART3TM Remote
 - 4500 Series HD Electric
 - Electric Shur-Lok®
 - AutoTrap[™] Hopper Opener
 - ProTrap[®] Hopper Opener
 - Electric Gate & Hoist
 - DriveMaxxTM Auger Drive
 - Electric Farm Swing Gate
 - LiteALL[™] Work Lights
 - Cable-LokTM Electric Upgrade
 - Electric Turning Point[™] Bow
 - Solar Power Pack
 - Tater-Top[™] Electric
 - Service Truck Power Kit

- Construction Products
 - The Original Shur-Lok®
 - Turning Point[™] Bow
 - Shur-Trak II[™]
 - IronSide IITM
 - Shur-Matic[™]
- SMARTrailer[™] Accessories
 - for Construction Products
 - 4500 Series HD Electric w/Gate FlexTM
 - Shur-Trak II[™] Electric Upgrade
 - Electric Turning Point[™] Bow
 - Solar Power Pack
- Custom Products
 - Fitted Truck Covers
 - Flat Utility Tarps
 - Bean Drill Covers
 - GustbusterTM Tarp Cords
 - SMARTwireTM



TARPING SYSTEMS & ACCESSORIES