



TARPING SYSTEMS & ACCESSORIES

P/N 1121683 Rev. J

OWNER'S MANUAL



Aluminum System for End Dumps

READ BEFORE INSTALLING

PO BOX 713 ■ 2309 SHUR-LOK STREET ■ YANKTON, SD 57078-0713
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WARRANTY. We warrant all new products are free of defects in materials and workmanship.* This warranty is effective if products are properly installed and used for the purpose for which they were intended and applies to the original buyer only. Except as set forth above or in any product-specific warranty documentation, we make no other warranties, express or implied, including but not limited to warranties of merchantability of fitness for a particular use.

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

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

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

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

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

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

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

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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.

PARTS INSPECTION

Inspect all parts in your 4500 Series Electric kit upon arrival. Please inspect your tarping system regularly, and repair or replace parts when continued use could damage your system.

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


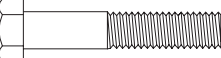


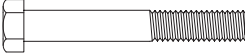



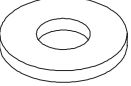
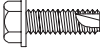


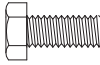




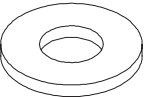


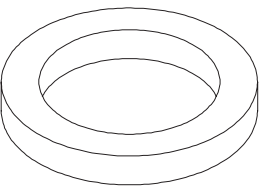
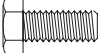

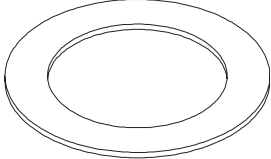
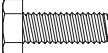

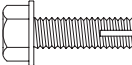

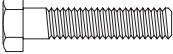
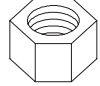
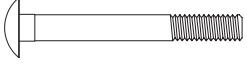
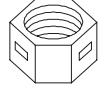

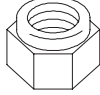
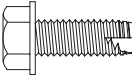
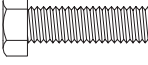
To prevent rust, paint all exposed metal, such as weld seams and/or metal exposed by grinding or cutting, with corrosion-resistant paint.

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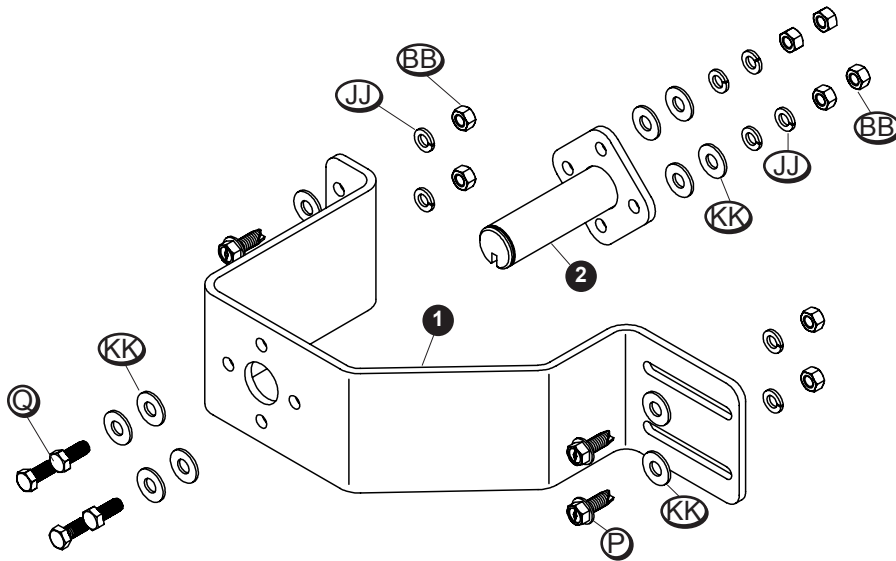
TOOLS REQUIRED

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. 13/32" Drill Bit
14. 3/8" Drill Bit
15. 1/4" Drill Bit
16. 17/64" Drill Bit
17. 3/8" Drill
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

- | | | |
|--|---|---|
| A  | R  | EE  |
| 1704308 Hex Flange Cap Screw - #10 x 1/2" | 1704264 Cap Screw - 3/8" x 2" - Grade 8 | 1700436 Lock Washer - 1/4" |
| B  | S  | FF  |
| 1704367 Hex Flange Cap Screw - #10 x 3/4" | 1702573 Cap Screw - 3/8" x 2-1/2" | 1700427 Flat Washer - 1/4" |
| C  | T  | GG  |
| 1704905 Flanged Cap Screw - #10 x 1" | 1702653 Cap Screw - #10 | 1700428 Flat Washer - 5/16" |
| D  | U  | HH  |
| 1700403 Self-Tapping Screw - 1/4" x 3/4" | 1808844 Nylon Lock Nut - #10 | 1700433 Lock Washer - 5/16" |
| E  | V  | JJ  |
| 1703959 Cap Screw - 1/4" x 3/4" | 1700408 Hex Nut - 1/4" | 1700434 Lock Washer - 3/8" |
| F  | W  | KK  |
| 1700398 Self-Drilling Screw - 1/4" x 3/4" | 1701543 Nylon Lock Nut - 1/4" | 1700429 Flat Washer - 3/8" |
| G  | X  | LL  |
| 1700381 Cap Screw - 1/4" x 1" | 1704946 Flanged Top Lock Nut - 5/16" | 1118318 Spacer Washer - 1/4" x 1.81" |
| H  | Y  | NN  |
| 1701045 Cap Screw - 5/16" x 3/4" | 1700411 Hex Nut - 5/16" | 1702890 Flat Washer - 1 1/4" |
| J  | Z  | |
| 1702926 Cap Screw - 5/16" x 7/8" | 1700419 Nylon Lock Nut - 5/16" | |
| K  | AA  | |
| 1701059 Cap Screw - 5/16" x 1" | 1704931 Flanged Nylon Lock Nut - 5/16" | |
| L  | BB  | |
| 1703487 Cap Screw - 5/16" x 1 1/2" | 1700407 Hex Nut - 3/8" | |
| M  | CC  | |
| 1701455 Carriage Bolt - 5/16" x 2 1/2" | 1700418 Centerlock Nut - 3/8" | |
| N  | DD  | |
| 1201022 Cap Screw - 5/16" x 3 1/2" | 1701580 Nylon Lock Nut - 3/8" | |
| P  | | |
| 1700400 Self-Tapping Screw - 3/8" x 1" | | |
| Q  | | |
| 1702891 Cap Screw - 3/8" x 1 1/4" | | |

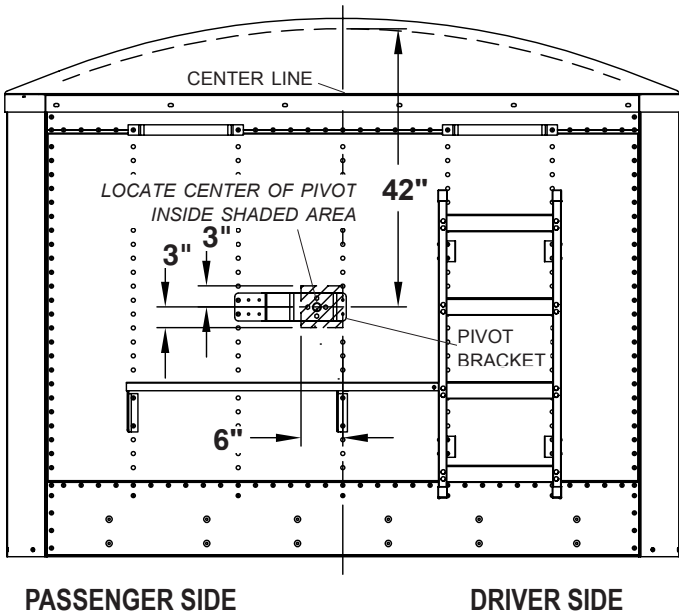
NOTE: Use lock washers and nuts with self-tapping screws whenever possible. A minimum material thickness of 3/16" is required in order to use self-tapping screws without lock washers and nuts. Drill 13/32" holes if lock washers and nuts are used; drill 5/16" holes if lock washers and nuts are not used.

Inspect 4500 Series HD kit upon arrival.

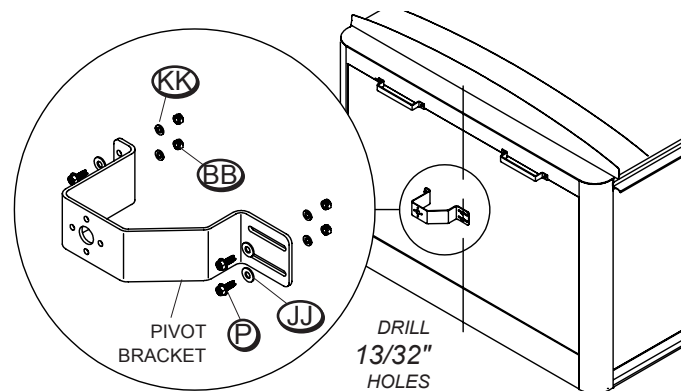


Item	Part #	Description
1.	1116919	Vertical Pivot Mount Bracket
2.	1116920	Pivot Pin - 4 Spring
P.	1700400	Self-Tapping Screw - 3/8" x 1"
Q.	1702891	Cap Screw - 3/8" x 1-1/4"
BB.	1700407	Hex Nut - 3/8"
JJ.	1700434	Lock Washer - 3/8"
KK.	1700429	Flat Washer - 3/8"

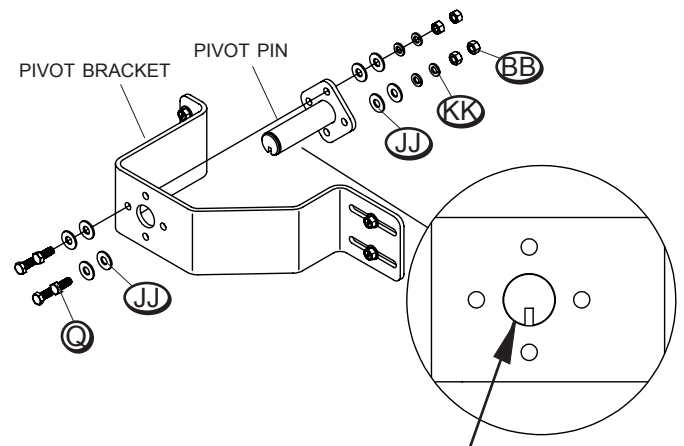
STEP 1: Locate front pivot mount bracket on passenger side of trailer so center of pivot lies within shaded area shown below. Measure 42" down from top of cap or 44" from top of windshield.



STEP 3: Remove rivets and mount brackets into rivet holes where possible. Otherwise, drill 5/16" holes in trailer. Fasten bracket to trailer with 3/8" self-tapping screws P, flat washers KK, lock washers JJ and nuts AA.



STEP 4: Fasten pivot pin to pivot bracket with 3/8" x 1-1/4" cap screws Q, flat washers KK, lock washers JJ and nuts AA.

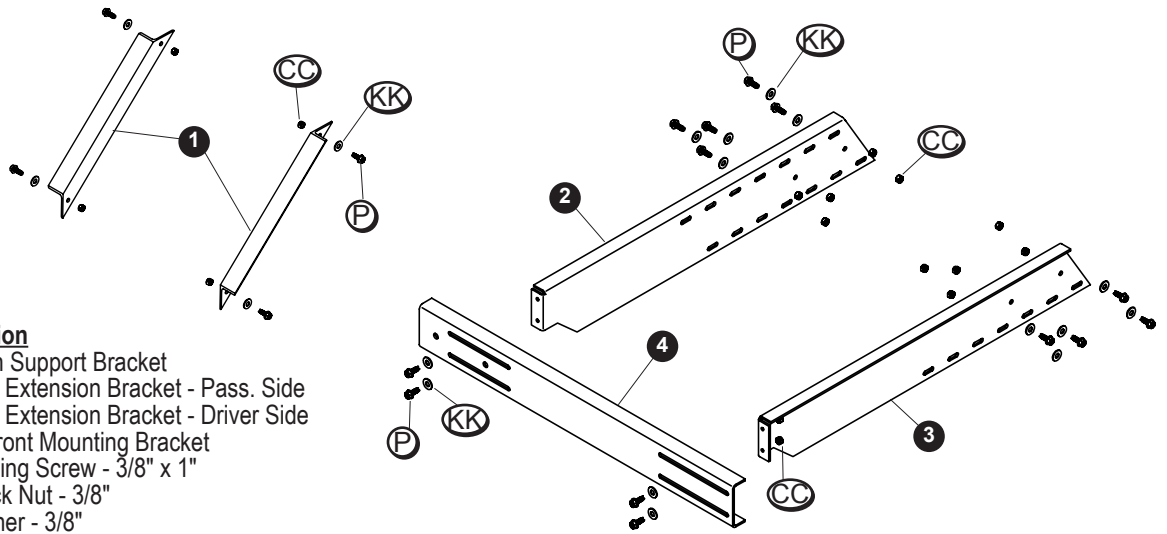


Slot in pivot pin must face downward.

STEP 2: Hold pivot mount brackets in place. Using brackets as guide, mark hole locations.

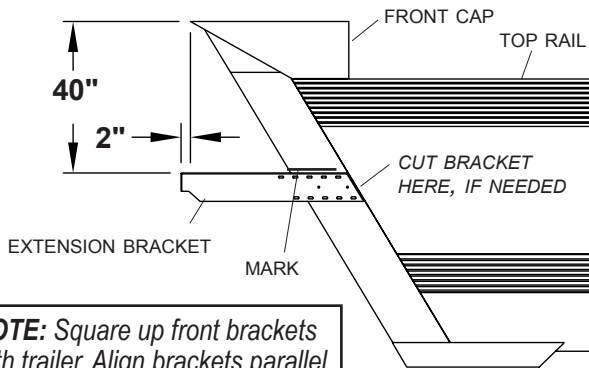
NOTE: Mount brackets into support braces on trailer, if possible. Reinforce mounting area for adequate support if bracket cannot be mounted into support braces.

NOTE: Before drilling any holes, make sure flex arm has a clear pathway to operate.



Item	Part #	Description
	1112310	Extension Support Bracket
2.	1113306	Universal Extension Bracket - Pass. Side
3.	1113307	Universal Extension Bracket - Driver Side
4.	1112178	Sloped Front Mounting Bracket
P.	1700400	Self-Tapping Screw - 3/8" x 1"
CC.	1700418	Centerlock Nut - 3/8"
KK.	1700429	Flat Washer - 3/8"

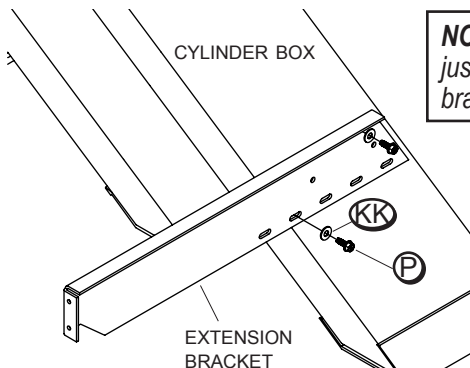
STEP 1: Locate extension brackets 40" down from top of front cap. Mark line on box parallel to top rails on front and outer sides of cylinder box.



NOTE: Square up front brackets with trailer. Align brackets parallel to top rails.

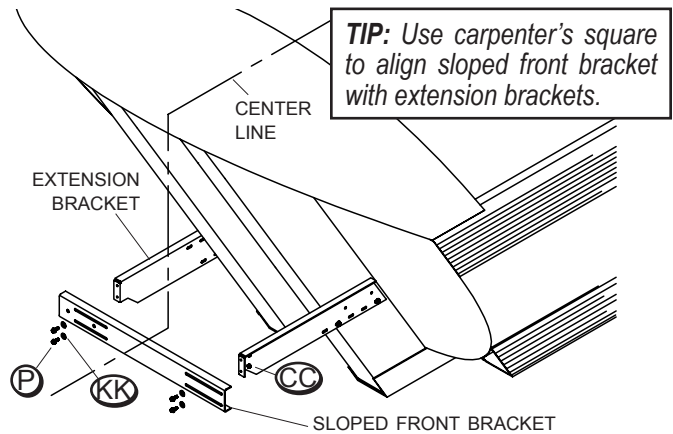
STEP 2: Align front edge of extension bracket 2" past farthest point of front cap. Cut back end of bracket to fit.

STEP 3: Using bracket as guide, mark and drill 5/16" holes at two slots and fasten bracket to cylinder box with 3/8" x 1" self-tapping screws (P) and flat washers (KK).

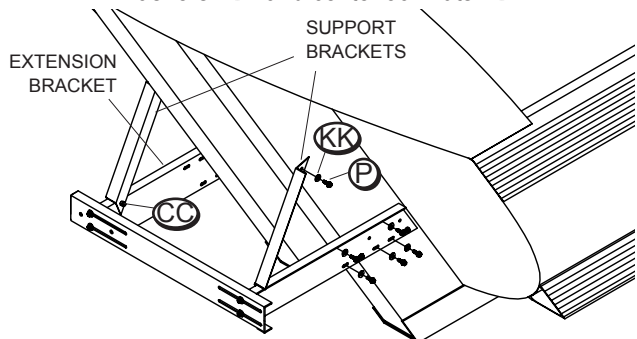


NOTE: Tighten bolts just enough to hold bracket in place.

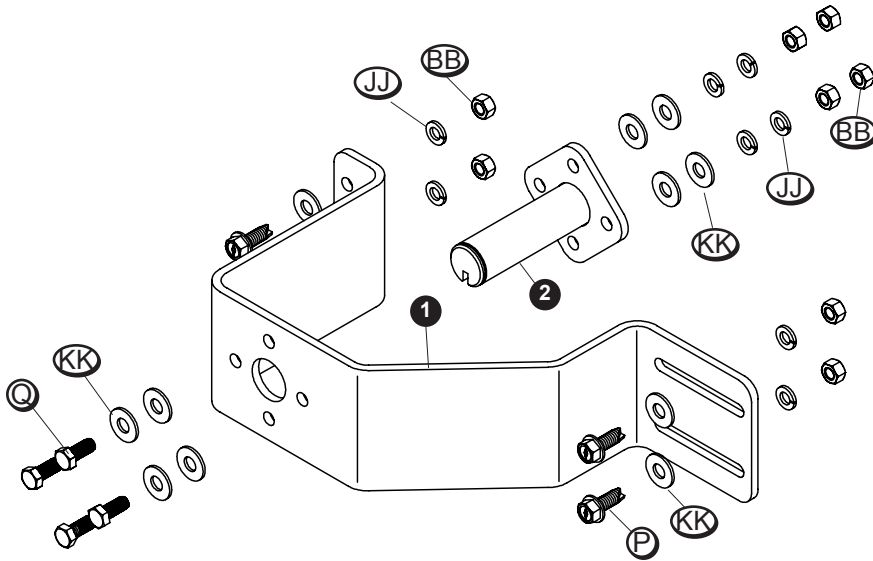
STEP 4: Align center of sloped front mounting bracket with center of trailer. Fasten sloped front bracket to extension brackets with 3/8" x 1" self-tapping screws (P), flat washers (KK) and centerlock nuts (CC).



STEP 5: Fasten support brackets to extension brackets and cylinder box with 3/8" x 1" self-tapping screws (P), flat washers (KK) and centerlock nuts (CC).

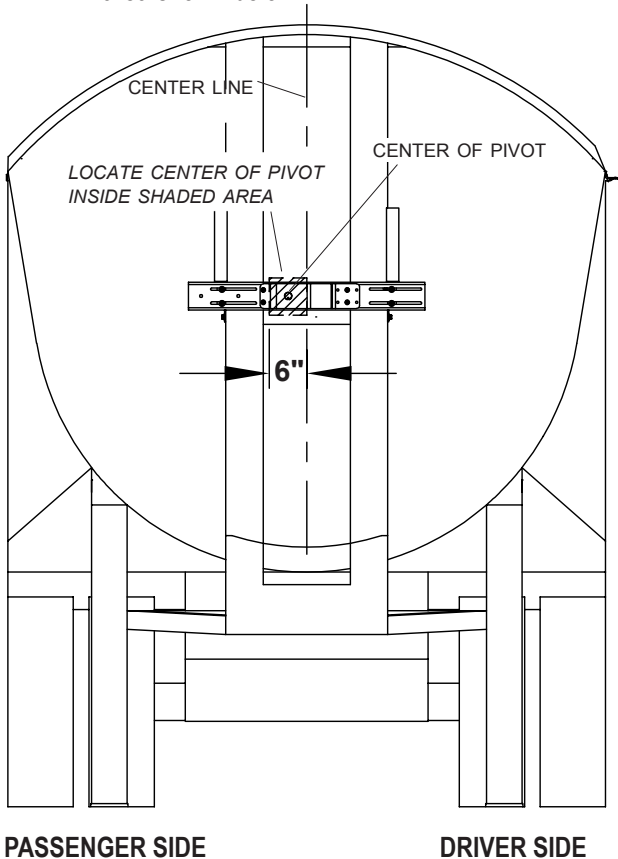


STEP 6: Drill 5/16" holes into cylinder box at remaining slots in extension brackets. Fasten with 3/8" x 1" self-tapping screws (P) and flat washers (KK). Square up brackets with front of trailer. Tighten all bolts.



Item	Part #	Description
1.	1116919	Vertical Pivot Mount Bracket
2.	1116920	Pivot Pin - 4 Spring
P.	1700400	Self-Tapping Screw - 3/8" x 1"
Q.	1702891	Cap Screw - 3/8" x 1 1/4"
BB.	1700407	Hex Nut - 3/8"
JJ.	1700434	Lock Washer - 3/8"
KK.	1700429	Flat Washer - 3/8"

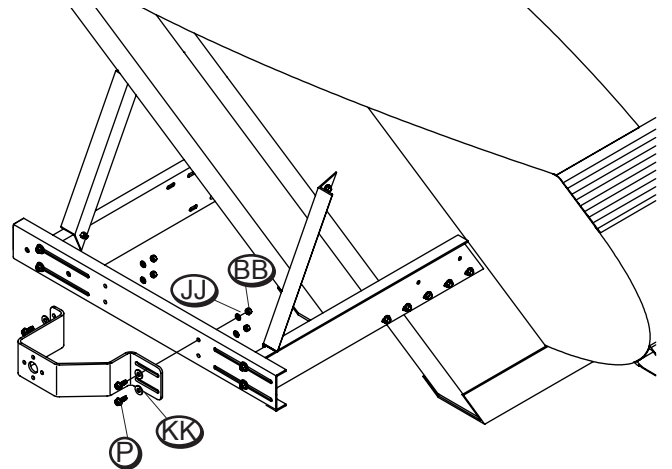
STEP 1: Locate front pivot mount bracket so center of pivot lies on passenger side of center line within shaded area shown below.



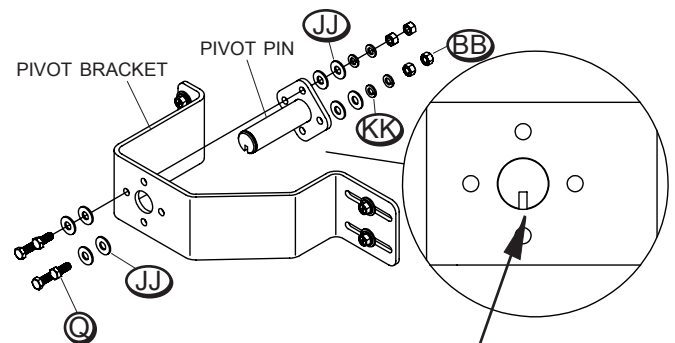
STEP 2: Hold pivot mount brackets in place. Using brackets as guide, mark hole locations.

NOTE: Before drilling any holes, make sure flex arm has clear pathway to operate.

STEP 3: Mark and drill 5/16" holes. Fasten pivot bracket to mounting bracket with 3/8" x 1" self-tapping screws (P), flat washers (KK), lock washers (JJ) and nuts (BB).

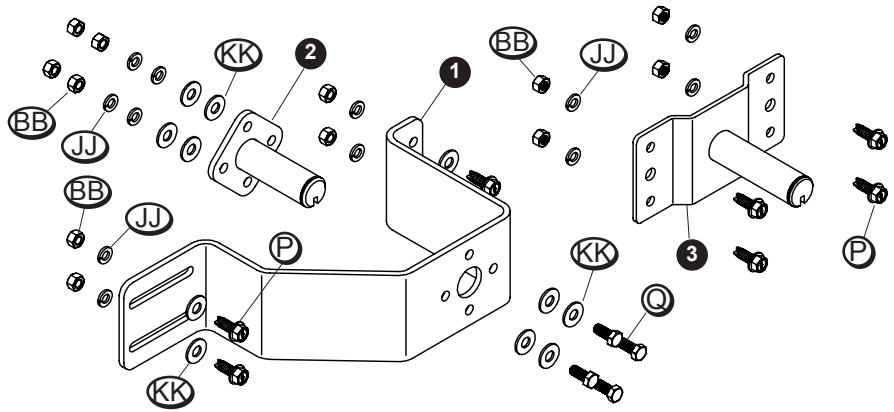


STEP 4: Fasten pivot pin to pivot bracket with 3/8" x 1-1/4" cap screws (Q), flat washers (KK), lock washers (JJ) and nuts (BB).



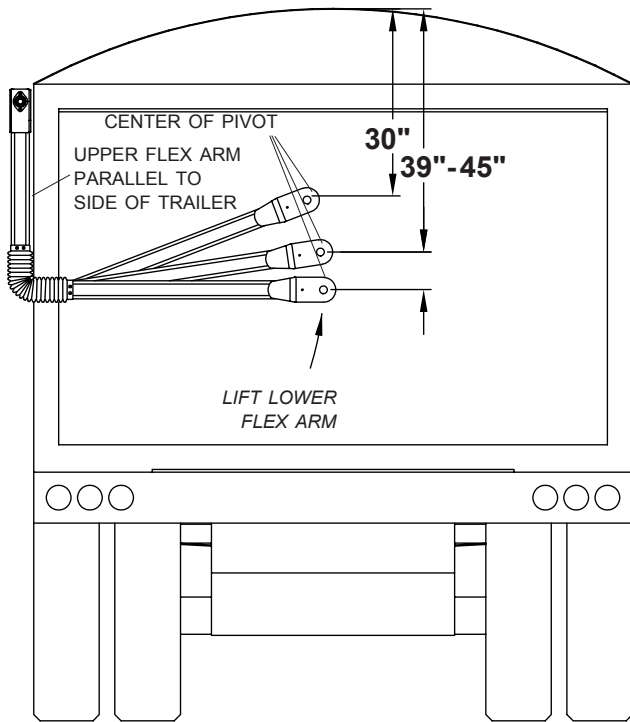
Slot in pivot pin must face downward.

Item	Part #	Description
1.	1116919	Vertical Pivot Mount Bracket
2.	1116920	Pivot Pin - 4 Spring
3.	1116994	Pivot Mount Bracket - Sloped
P.	1700400	Self-Tapping Screw - 3/8" x 1"
Q.	1702891	Cap Screw - 3/8" x 1-1/4"
BB.	1700407	Hex Nut - 3/8"
JJ.	1700434	Lock Washer - 3/8"
KK.	1700429	Flat Washer - 3/8"



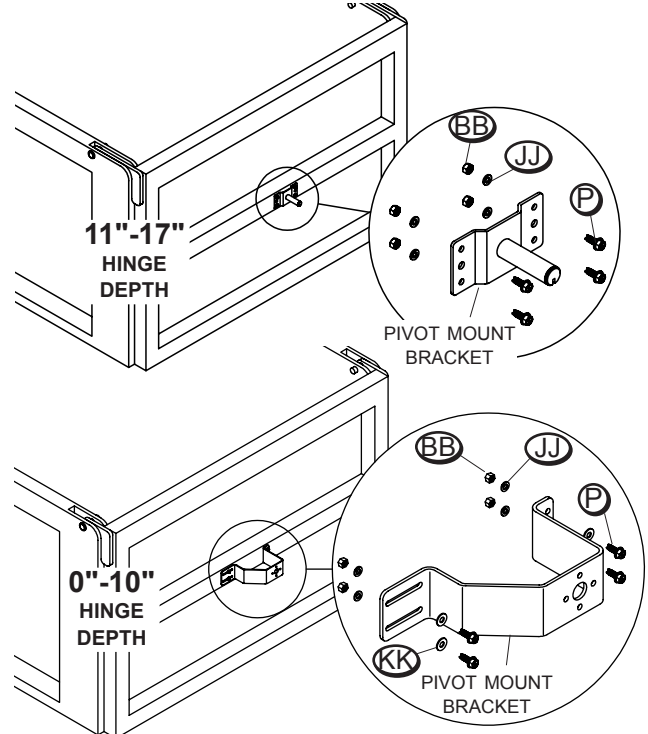
NOTE: Rear pivot mount bracket may be located anywhere on rear of trailer as long as upper flex arm is parallel with side of trailer when tarp is closed and rolled up under latchplate.

STEP 1: To determine rear pivot mount bracket location, align bearing hole in upper flex arm with roll tube under latchplate. Hold upper flex arm parallel to side of trailer and lift lower flex arm up so center of pivot is 39" to 45" below top of rear cap.

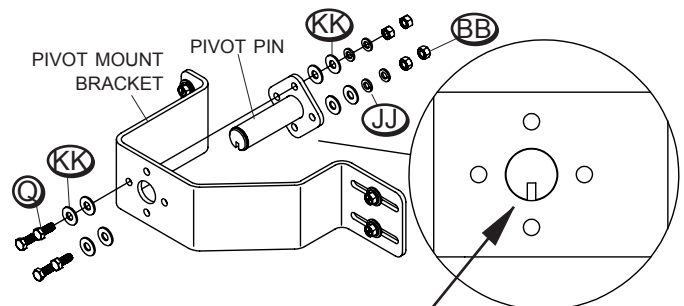


NOTE: If pivot pin cannot be located in recommended area because of grain doors, pivot arm may be located 30" to 45" below top of cap.

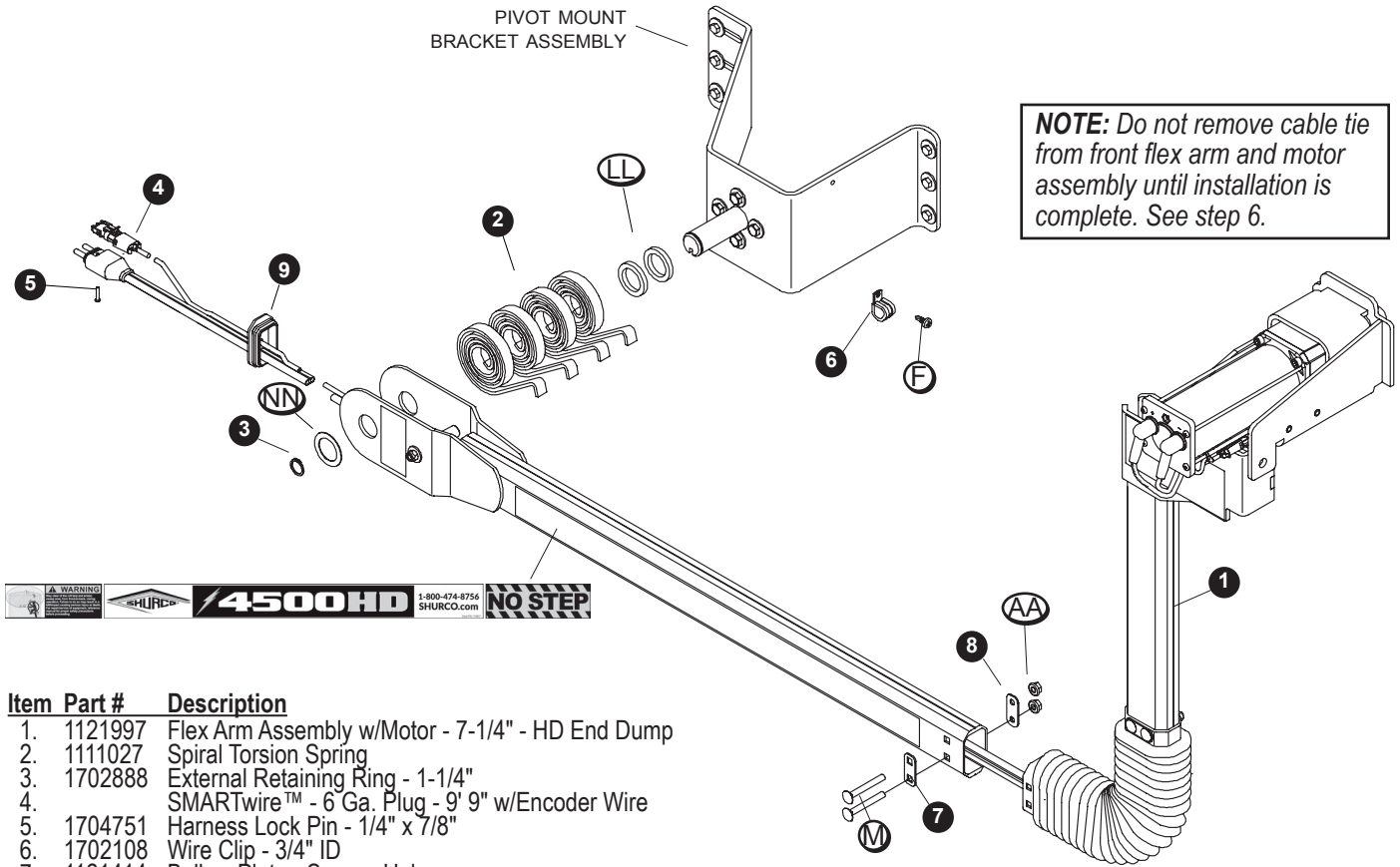
STEP 2: Mark and drill 5/16" holes in trailer. Fasten bracket to trailer with 3/8" self-tapping screws **P**, flat washers **KK**, lock washers **JJ** and nuts **BB**.



STEP 3: 0"-10" hinge depth. Fasten pivot pin to bracket with 3/8" x 1-1/4" cap screws **Q**, flat washers **KK**, lock washers **JJ** and nuts **BB**.



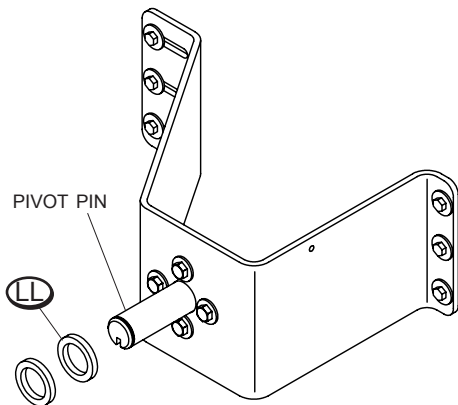
Slot in pivot pin must face downward.



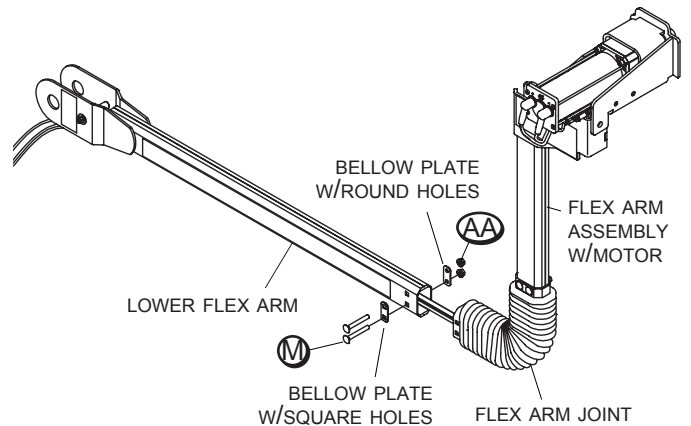
Item	Part #	Description
1.	1121997	Flex Arm Assembly w/Motor - 7-1/4" - HD End Dump
2.	1111027	Spiral Torsion Spring
3.	1702888	External Retaining Ring - 1-1/4"
4.		SMARTwire™ - 6 Ga. Plug - 9' 9" w/Encoder Wire
5.	1704751	Harness Lock Pin - 1/4" x 7/8"
6.	1702108	Wire Clip - 3/4" ID
7.	1121414	Bellow Plate - Square Holes
8.	1121413	Bellow Plate - Round Holes
9.	1704893	Cap Plug w/Hole
F.	1700398	Self-Drilling Screw - 1/4" x 3/4"
M.	1701455	Carriage Bolt - 5/16" x 2-1/2"
AA.	1704931	Flanged Nylon Lock Nut - 5/16"
LL.	1118318	Spacer Washer - 1/4" x 1.28"
NN.	1702890	Flat Washer - 1-1/4"

! WARNING
 Do not stand or climb on flex arm. Standing or climbing on flex arm could result in fall/impact causing serious injury or death.

STEP 1: Assemble spacer washers (LL) onto pivot pin.

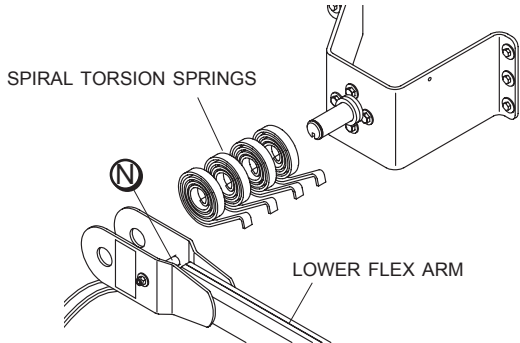


STEP 2: Align holes in bellow, end fitting and bellow plates with holes in lower flex arm assembly as shown. Fasten with 5/16" x 2-1/2" carriage bolts (M) and lock nuts (AA).

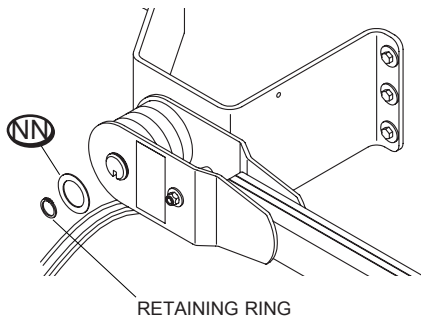


NOTE: Motor assembly on upper flex arm must face toward trailer as shown.

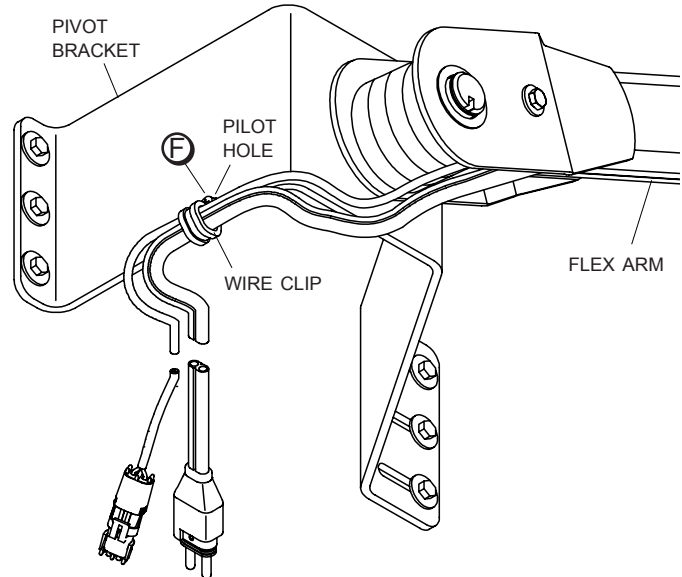
STEP 3: Assemble spiral torsion springs and lower flex arm onto pivot pin. Hook springs over 3/8" x 3-1/2" cap screw **N** and spacer tube.



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

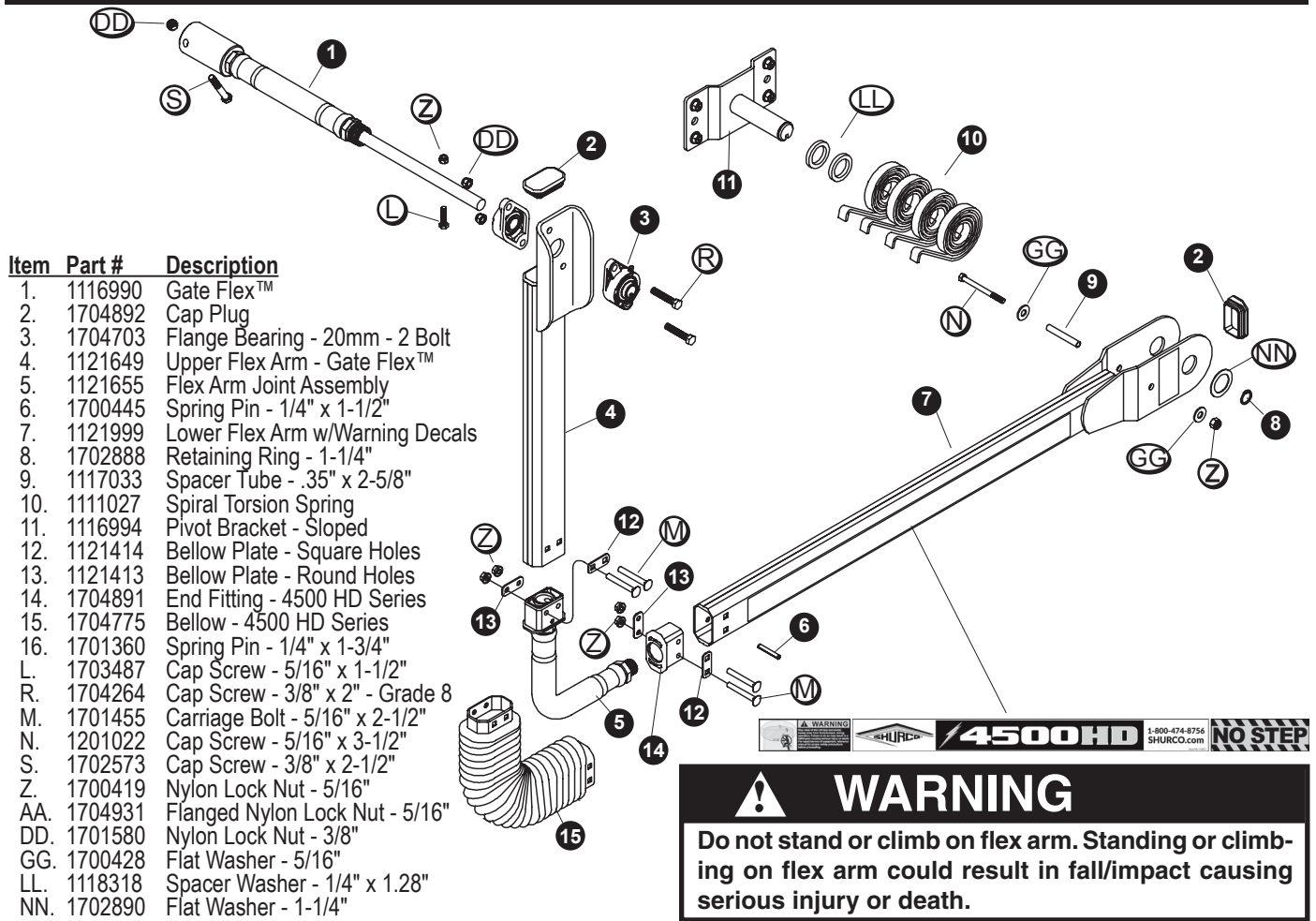


STEP 5: Choose appropriate pilot hole on pivot bracket to route 6-ga. wire from flex arm through trailer skin. Fasten wire clip to pilot hole with 1/4" x 3/4" self-drilling screw **F**.



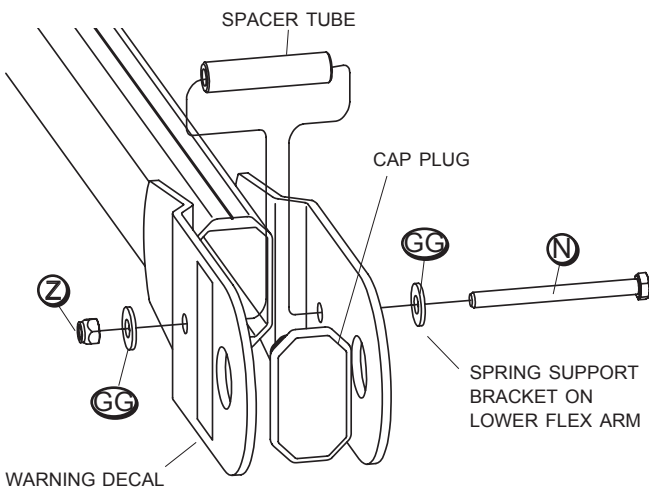
NOTE: Fasten wire clip to pilot hole on opposite side of pivot bracket from flex arm to prevent wire from being pinched during operation.

STEP 6: Remove cable tie from front arm/motor assembly before operating system.



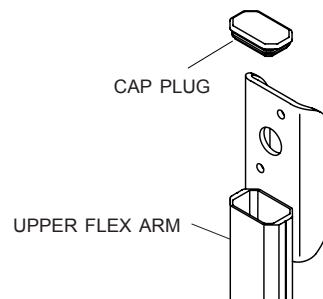
WARNING
 Do not stand or climb on flex arm. Standing or climbing on flex arm could result in fall/impact causing serious injury or death.

STEP 1: Install cap plug on lower flex arm. Fasten spacer tube into spring support bracket on lower flex arm with 5/16" x 3-1/2" cap screw **N**, two flat washers **GG** and lock nut **Z**.

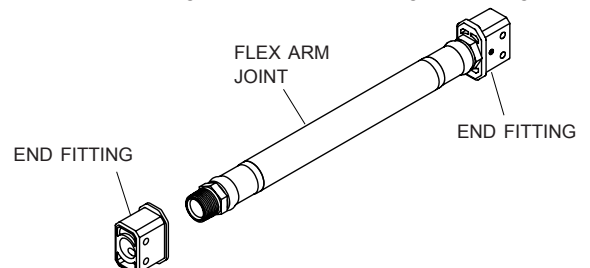


NOTE: Insert cap screw through flex arm so head of screw is on inside of assembly (toward trailer). Warning label must be in plain view on outside of assembly.

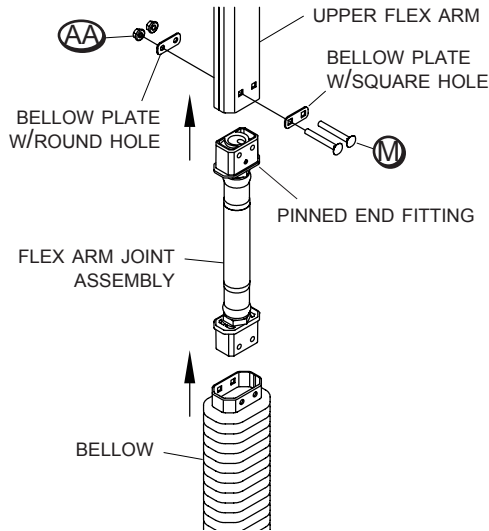
STEP 2: Install cap plug on rear upper flex arm.



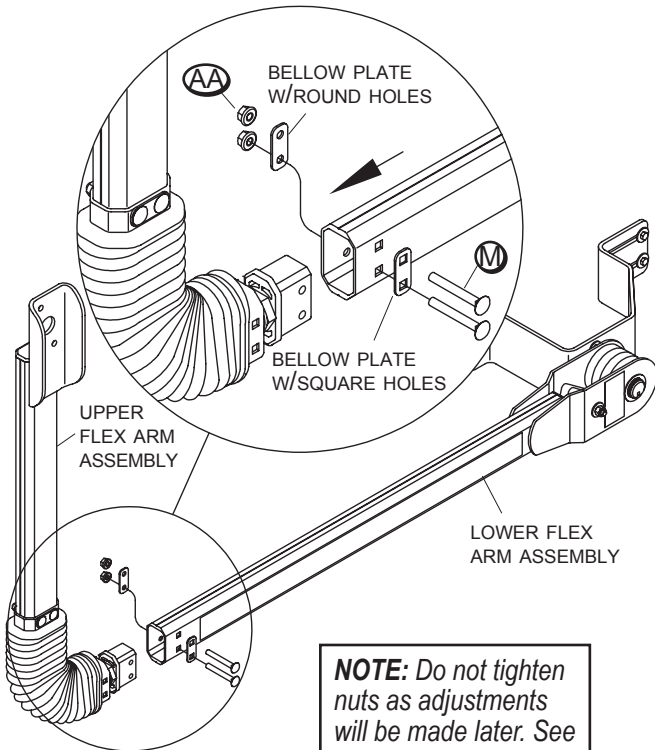
STEP 3: Thread end fitting onto end of flex arm joint. Tighten so end fitting is parallel to existing end fitting.



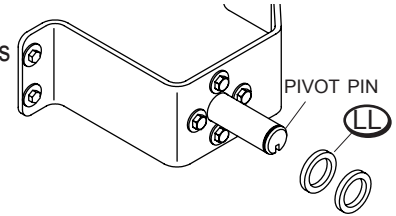
STEP 4: Insert flex arm joint into upper flex arm and slide bellow over flex arm joint. Align holes in upper flex arm, bellow plates, flex arm joint and bellow. Fasten with 5/16" x 2-1/2" carriage bolts (AA) and flanged nylon lock nuts (AA).



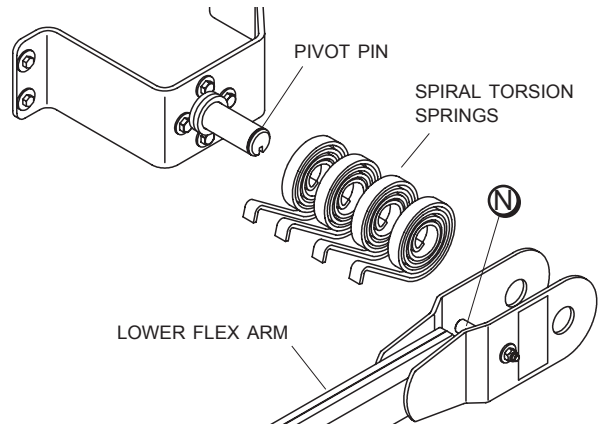
STEP 5: Align holes in end fittings and bellow plates with holes in lower flex arm assembly as shown. Temporarily install 5/16" x 2-1/2" carriage bolts (AA) and lock nuts (AA).



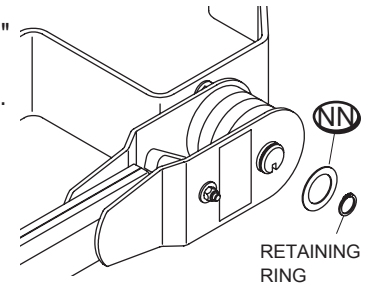
STEP 6: Assemble spacer washers (LL) onto pivot pin.



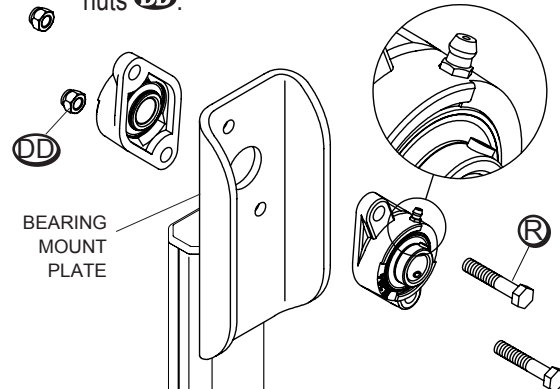
STEP 7: Assemble spiral torsion springs and lower flex arm onto pivot pin. Hook springs over 5/16" x 3-1/2" cap screw (N) and spacer tube.



STEP 9: Secure with 1-1/4" flat washer (NN) and retaining ring.



STEP 8: Position flange bearings as shown and fasten to bearing mount plate with 3/8" x 2" cap screws (R) and lock nuts (DD).

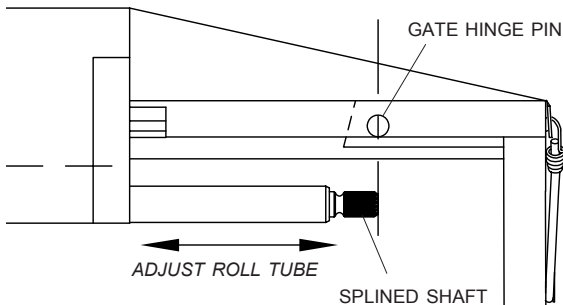


WARNING

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.

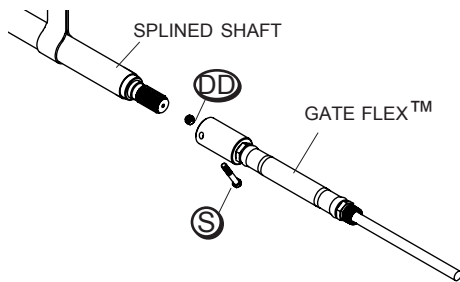
REAR OF TRAILER

STEP 1: Adjust roll tube forward or backward to align end of splined shaft with gate hinge pin.



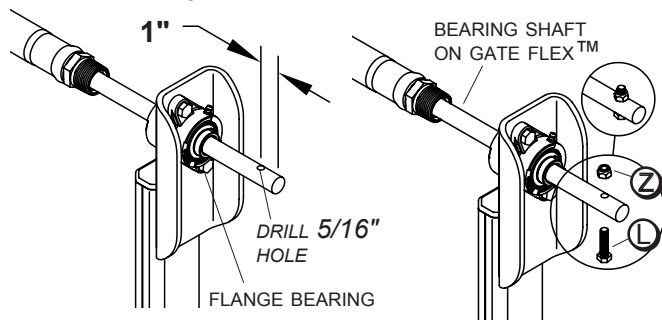
NOTE: If hinge depth is 0" to 4", set end of splined shaft 4" in from back of gate.

STEP 2: Slide Gate Flex™ completely over splined shaft on roll tube. Fasten with 3/8" x 2-1/2" cap screw (S) and centerlock nut (DD).



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

STEP 3: Slide bearing shaft on Gate Flex™ through flange bearing on upper flex arm. Drill 5/16" hole through bearing shaft. Insert 5/16" x 1-1/2" cap screw (L) through hole and secure with lock nut (Z).

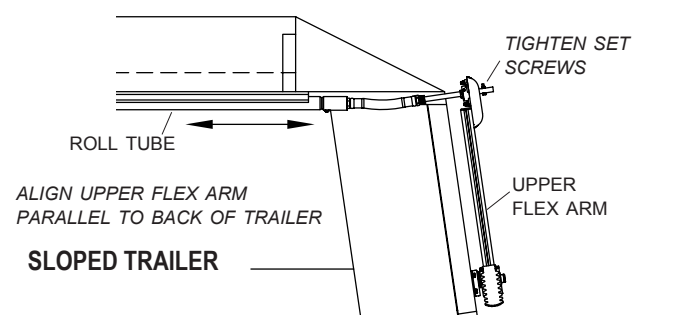
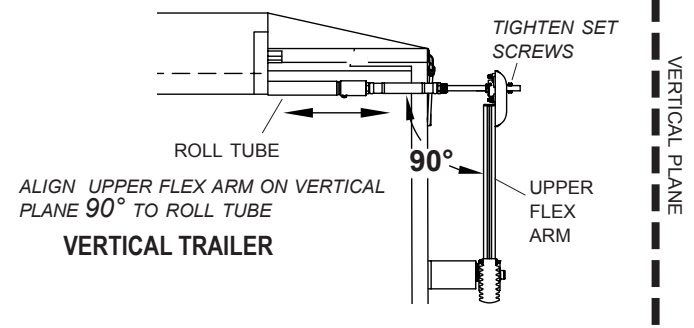


NOTE: Do not leave unattended until flex arm is securely fastened to roll tube extension as shown.

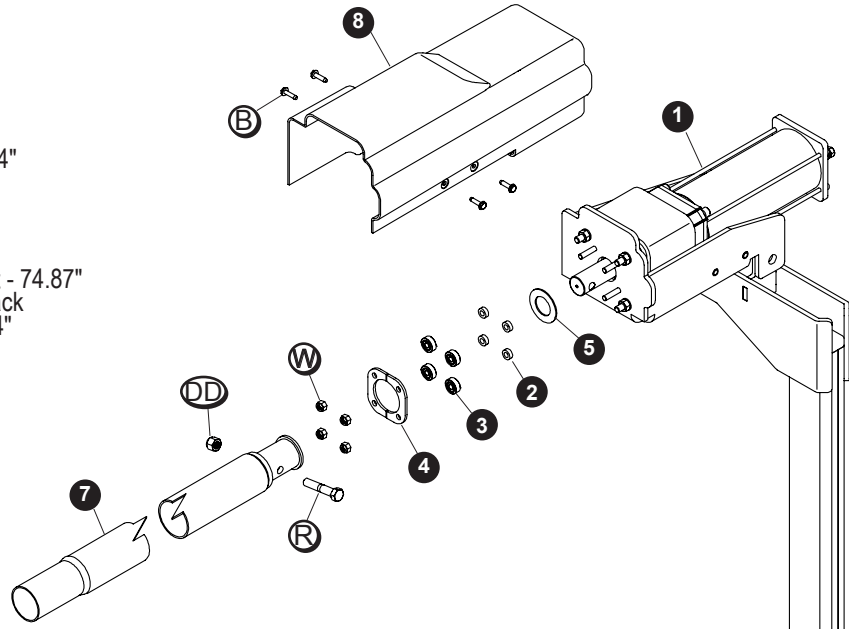
WARNING

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: On vertical trailers, align upper flex arm in vertical plane 90° to roll tube. On sloped trailers, align upper flex arm parallel to back of trailer. Tighten set screws in flush mount bearing.

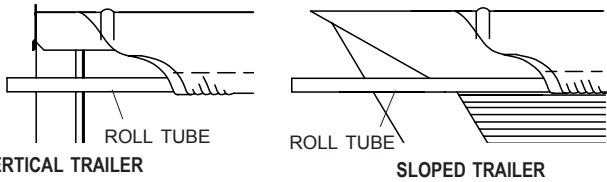


Item	Part #	Description
1.	1121298	Flex Arm Assembly w/Motor - 7-1/4"
2.	1120680	Motor Mount Bearing Spacer
3.	1704736	Radial Ball Bearing - 1/4" x 3/4"
4.	1120681	Motor Mount Bearing Retainer
5.	1120679	Motor Spacer
7.	1120699	Roll Tube Extension w/Drive Shaft - 74.87"
8.	1704982	4500 Series HD Motor Cover - Black
B.	1704367	Hex Flange Cap Screw - #10 x 3/4"
R.	1704264	Cap Screw - 3/8" x 2" - Grade 8
W.	1701543	Nylon Lock Nut - 1/4"
DD.	1701580	Nylon Lock Nut - 3/8"

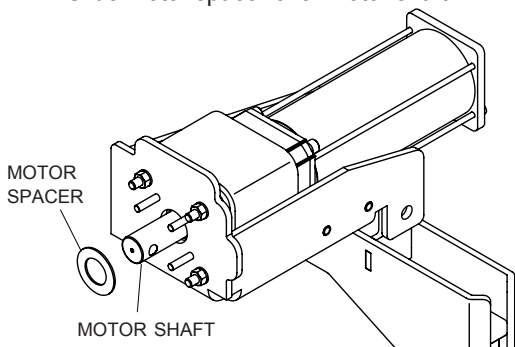


FRONT OF TRAILER

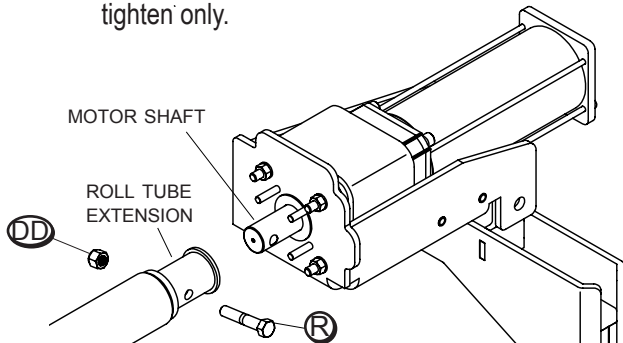
STEP 1: Slide tarp back onto roll tube.



STEP 2A: Slide motor spacer over motor shaft.



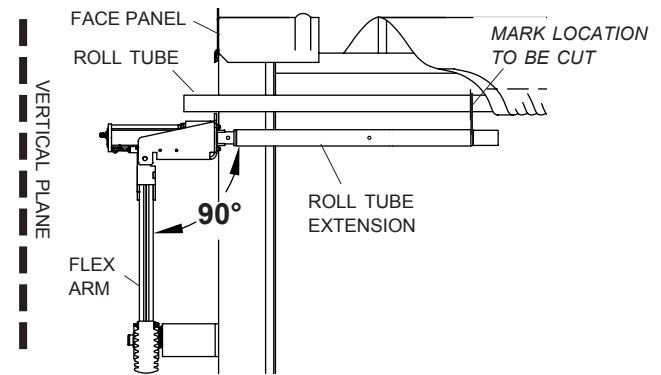
STEP 2B: Slide roll tube extension over motor shaft. Fasten with 3/8" x 2" cap screws (R) and lock nuts (DD). Finger tighten only.



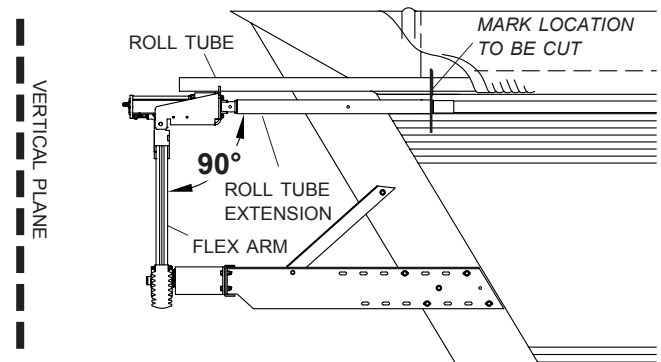
STEP 3: Hold flex arm with motor and roll tube extension in vertical plane to trailer and at 90° angle to roll tube. Mark roll tube at location to be cut as shown.

NOTE: Two people are required for safe installation.

VERTICAL TRAILER

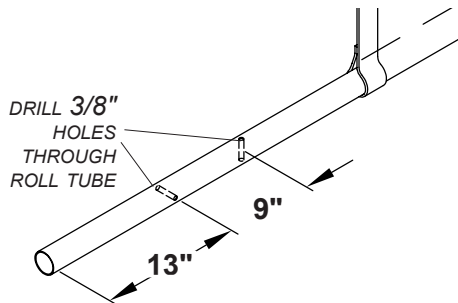


SLOPED TRAILER



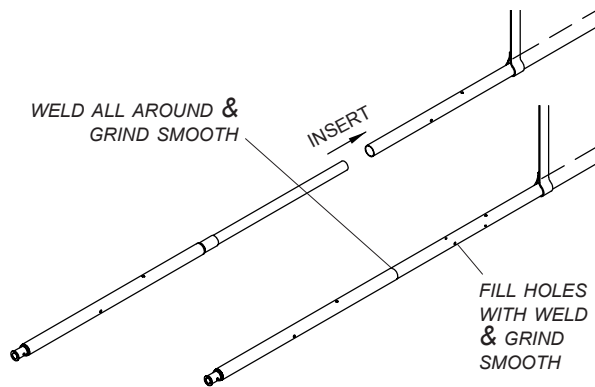
STEP 4: Unfasten and remove motor mount assembly from roll tube extension. Remove roll tube extension from roll tube. Cut roll tube at marked location.

STEP 5: Mark and drill 3/8" holes through roll tube at right angles to each other in locations shown.



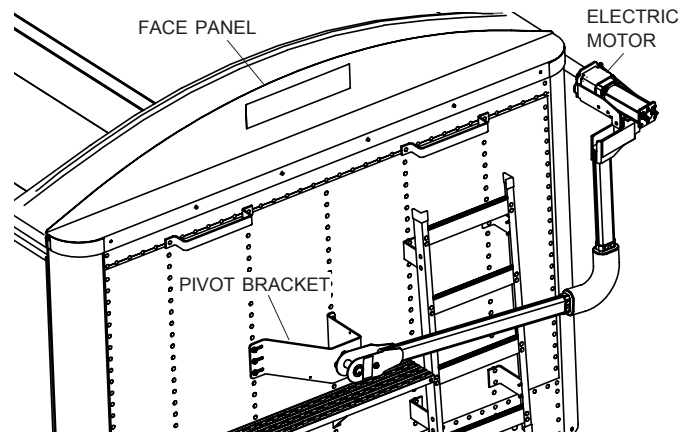
STEP 6: Insert swaged end of roll tube extension w/drive shaft into roll tube. Align extension straight with roll tube and align holes. Weld as shown and grind smooth.

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.



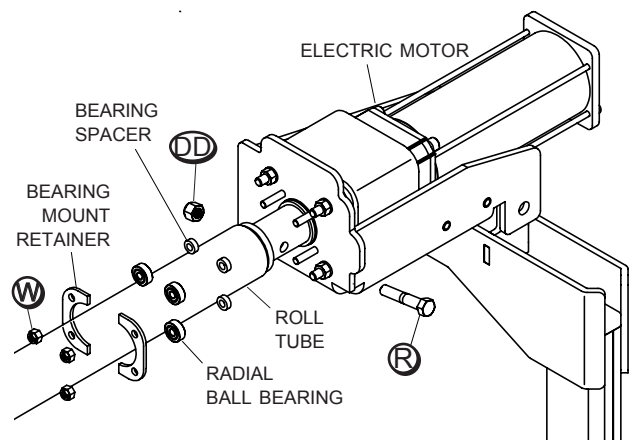
NOTE: To prevent rust, paint all weld seams and/or metal exposed by grinding or cutting with corrosion-resistant paint.

STEP 7: Slide roll tube/roll tube extension weldment back into position and align upper flex arm on front of trailer. Follow steps 6 to 7 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 8: Refasten and secure roll tube to electric motor shaft with 3/8" x 2" cap screw **(R)** and lock nut **(DD)**. Install bearing spacers, radial ball bearings and bearing mount retainer. Secure with 1/4" lock nuts **(W)**.

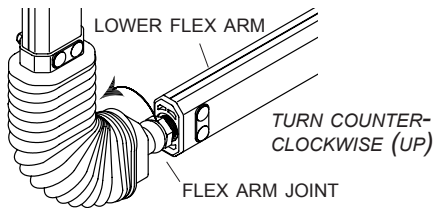


STEP 9: Refasten tarp to roll tube with existing U-clamps and screws. Tighten all fasteners securely. Tighten front and rear flex arm connections.

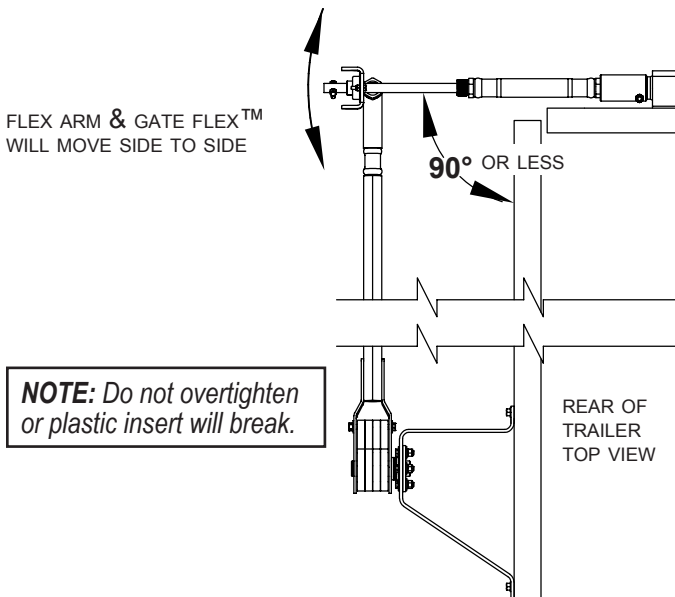
NOTE: Verify that flex arm is on vertical plane and parallel to face panel before proceeding. Make sure all fasteners holding motor to upper flex arm bracket are tightened securely.

REAR OF TRAILER

STEP 10: 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.

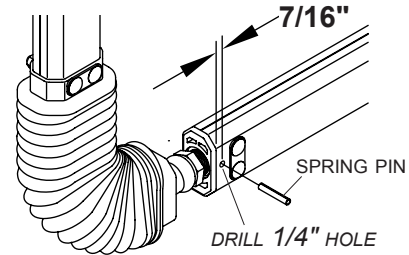


STEP 11: Keep turning flex arm joint until Gate Flex™ is parallel to side of trailer and at 90° angle to rear door. Do not overtighten.

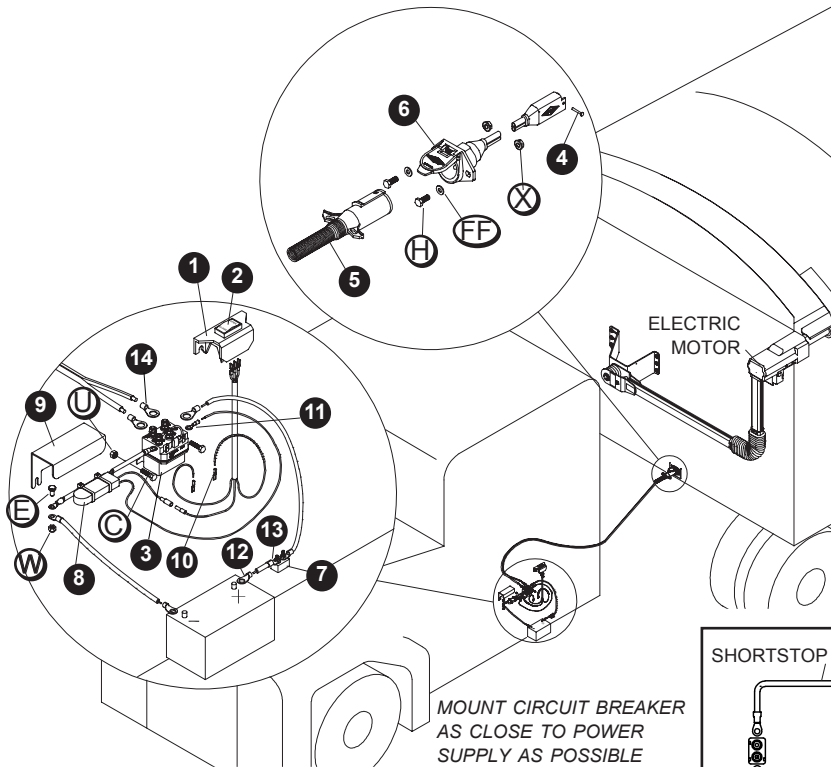


NOTE: Do not overtighten or plastic insert will break.

STEP 12: 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.

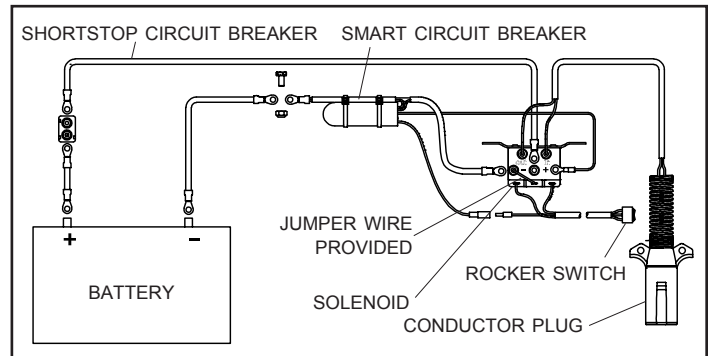


STEP 13: Remove tension from rear arm by lowering roll tube to lowest position on side of trailer. Disconnect Gate Flex™ from splined shaft on roll tube. Remove carriage bolts and plates from lower arm. Slide bellow into position and re-assemble carriage bolts and plates. Tighten nuts and reconnect Gate Flex™ to splined shaft.



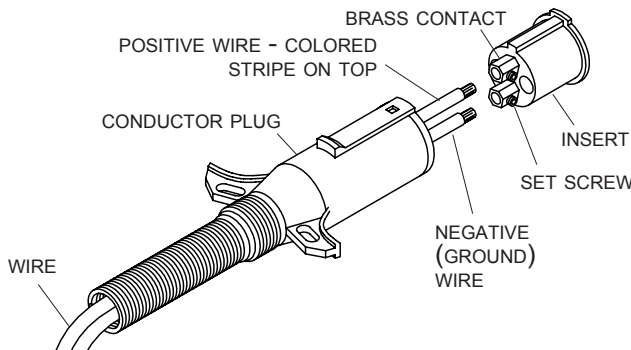
Item	Part #	Description
1.	1703661	Rocker Switch Mounting Bracket
2.	1116020	Rocker Switch
3.	1703845	Motor-Reversing Solenoid
4.	1704751	Harness Lock Pin - 1/4" x 7/8"
5.	1115385	Heavy-Duty Dual-Conductor Plug
6.	1120670	SMARTwire™ Dual-Conductor Socket
7.	1704354	40-Amp Modified-Reset Circuit Breaker
8.	1705624	50-Amp SMART Circuit Breaker
9.	1703896	Solenoid Cover
10.	1703659	Push-On Terminal - 14 Ga. 1/4"
11.	1704153	Ring Terminal - 14 Ga. x 1/4" Stud
12.	1703244	Ring Terminal - 6 Ga. x 3/8" Stud
13.	1703245	Ring Terminal - 6 Ga. x #10 Stud
14.	1702707	Ring Terminal - 6 Ga. 1/4" Stud
C.	1704905	Flanged Cap Screw - #10 x 1"
E.	1703959	Cap Screw - 1/4" x 3/4"
H.	1701045	Cap Screw - 5/16" x 3/4"
U.	1808844	Nylon Lock Nut - #10
W.	1701543	Nylon Lock Nut - 1/4"
X.	1704946	Flanged Top Lock Nut - 5/16"
FF.	1700427	Flat Washer - 1/4"

⚠ WARNING
 When transporting trailer, wiring from in-cab rocker switch must be connected to 4500 HD system on trailer. If motor is not connected to power while in transit, tarp may unwind and blow off.

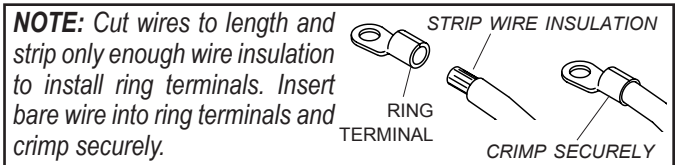


STEP 1: Mount solenoid in battery box or other location protected from elements and road debris. Solenoid posts should face up.

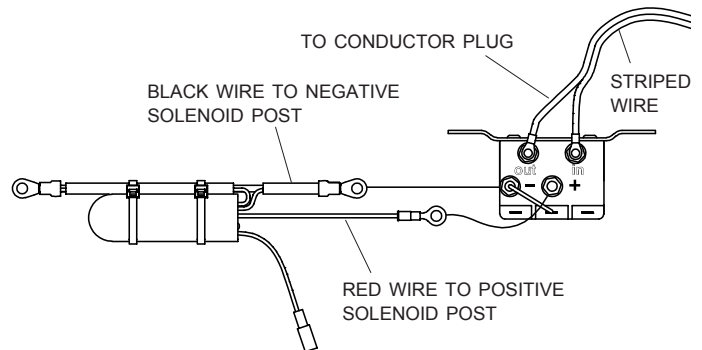
STEP 2: Assemble conductor plug. Unfasten screw and remove insert from plug housing. Feed 6-ga. dual wire through plug housing. Strip insulation back 1/2" and insert bare wire strands into brass contacts. Ensure there are no loose wire strands that could short circuit. Tighten set screws to secure wires. Replace insert into plug housing and secure screw.



STEP 3: Route 6-ga. dual wire from conductor plug to solenoid and cut wire to length. Crimp and connect 1/4" ring terminals to rear two solenoid posts. Striped wire should be connected to right rear post. Orient wires so shield can be mounted over solenoid later.



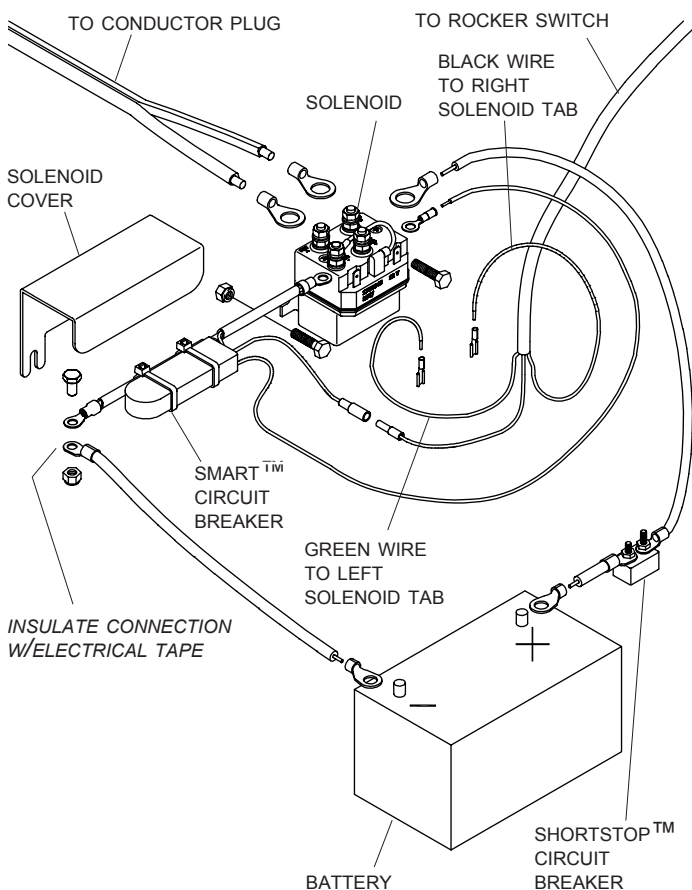
STEP 4: Connect SMART™ circuit breaker to solenoid.



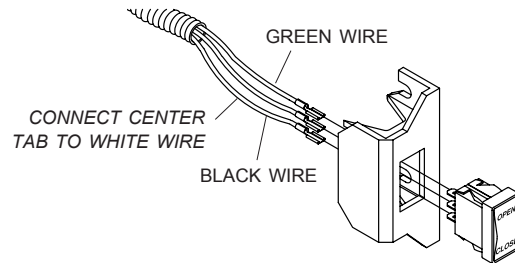
STEP 5: Connect SMART™ breaker to battery. Make jumper out of black 6-ga. wire (no stripe). Connect one end to battery negative post and bolt other ring terminal to SMART™ breaker. Insulate bolted connection with electrical tape.

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.

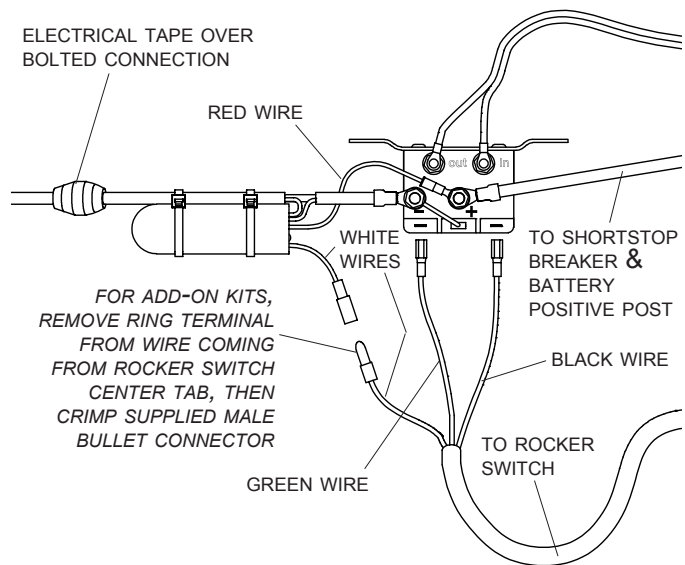
STEP 6: Locate ShortStop™ circuit breaker within 1' of battery positive post. Make jumper wires out of 6-ga. wire (with stripe) for connecting ShortStop™ breaker between positive battery post and positive solenoid post. Connect breaker to positive solenoid post, but do not connect breaker to positive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

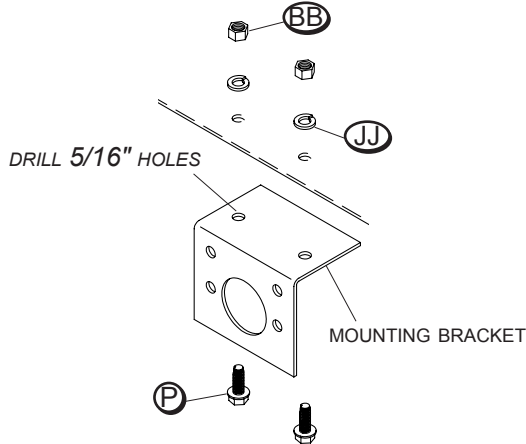
A) Check motor direction by activating switch to OPEN. If switch is running system backwards, swap green and black quick disconnects on solenoid.

B) Close tarp: Push switch to CLOSE and hold. Observe tarp and release switch when tarp is fully closed.

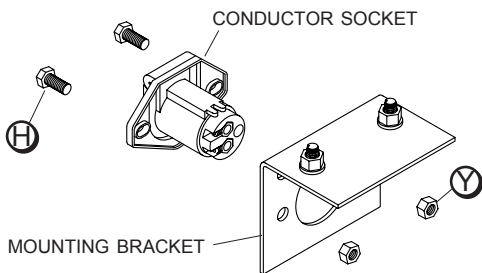
C) Open tarp: Push switch to OPEN and hold. Observe tarp and release switch when tarp is fully open, but before it tightens against tarp stops.

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™.

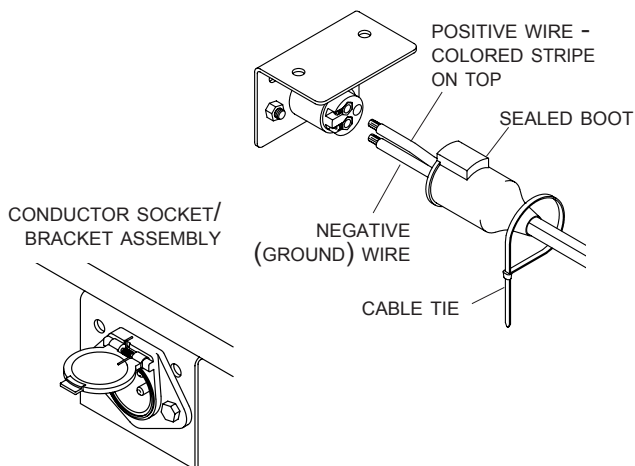
STEP 1: Mount bracket at suitable location on front of trailer, usually near existing plugs. Mark and drill 5/16" holes and fasten with 3/8" x 1" self-tapping screws **P**, lock washers **JJ** and nuts **BB**.



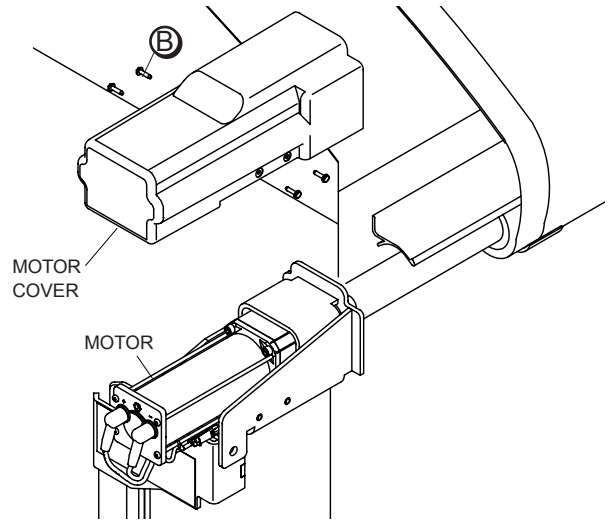
STEP 2: Fasten conductor socket to mounting bracket with 5/16" x 3/4" cap screws **H** and lock nuts **Y**.



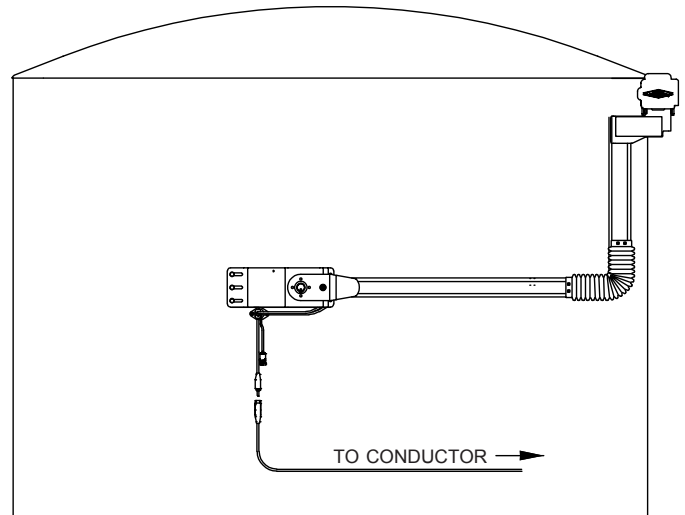
Bring 6-ga. wire from lower end of pivot arm through sealed boot. Connect wire ends to conductor socket, aligning positive wire on socket with positive wire on conductor plug. Slide sealed boot against conductor socket and secure boot to wire with cable tie.



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

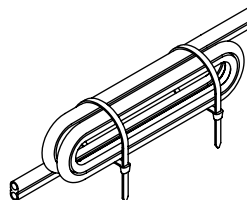


FRONT VIEW OF TRAILER



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

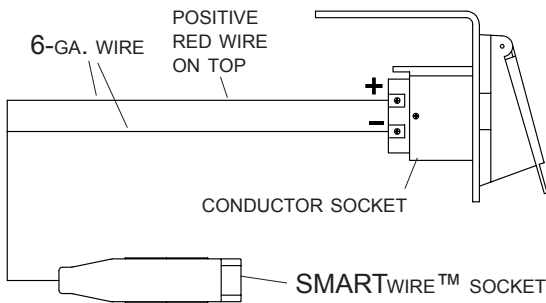
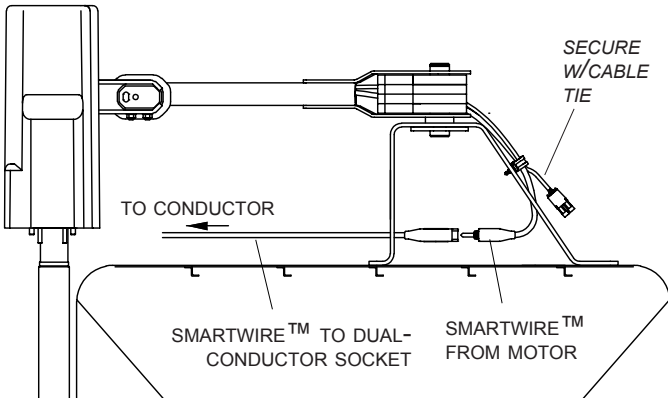
CAUTION



Do not cut SMARTwire™. Bind excess wire with cable ties.

WIRING SCHEMATIC

STEP 1: Connect SMARTwire™ from electric motor to SMARTwire™ from dual conductor and secure connection with lock pin. Secure all wires to trailer with cable clips and screws. If needed, use cable ties.

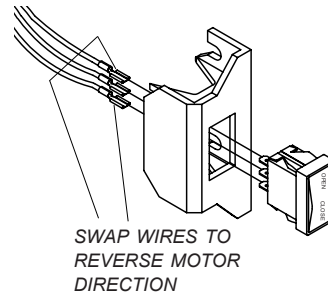


NOTE: Coat each connection with dielectric grease (P/N 1704378) to prevent corrosion.

CAUTION

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

STEP 2: Check motor direction by activating switch to *OPEN*. If switch is running system backwards, program remote to wireless receiver (see programming instructions) and rewire as directed in Troubleshooting Guide.



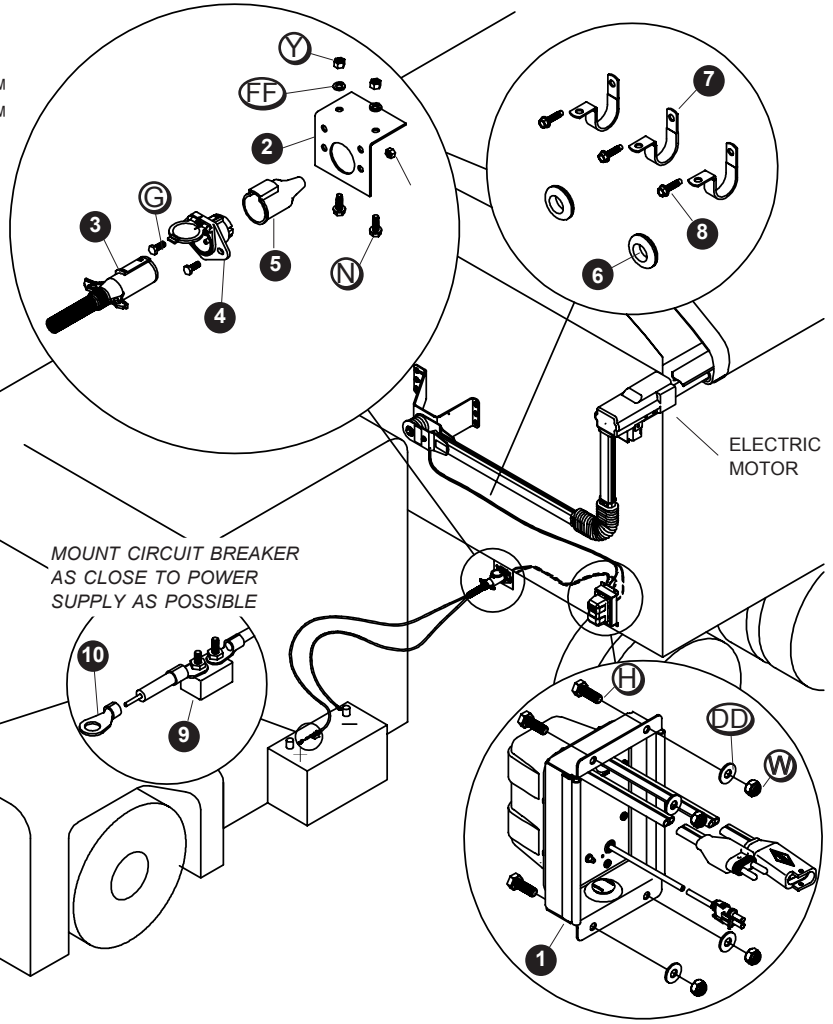
OPERATION:

A) Close tarp: Push switch to *CLOSE* and hold. Observe tarp and release switch when tarp is fully closed.

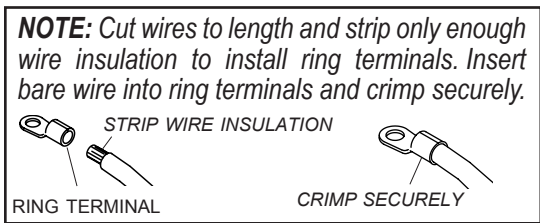
B) Open tarp: Push switch to *OPEN* and hold. Observe tarp and release switch when tarp is fully open.

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.

Item	Part #	Description
1.	1125007	Shur-Co® Wireless Receiver - SMART2™
	1126863	Shur-Co® Wireless Receiver - SMART3™
2.	1109015	Mounting Bracket
3.	1115385	Heavy-Duty Dual-Conductor Plug
4.	1115386	Heavy-Duty Dual-Conductor Socket
5.	1704573	Conductor Socket Sealed Boot
6.	1703282	Rubber Grommet - 1-1/4" Insert
7.	1702108	Wire Clip - 3/4"
8.	1704338	Self-Tapping Screw - 1/4" x 1"
9.	1704354	40-Amp Modified-Reset Circuit Breaker
10.	1703244	Ring Terminal - 6 Ga. x 3/8" Stud
11.	1704330	Rubber Boot (not shown)
E.	1701045	Cap Screw - 5/16" x 3/4"
H.	1702926	Cap Screw - 5/16" x 7/8"
N.	1700400	Self-Tapping Screw - 3/8" x 1"
V.	1700411	Hex Nut - 5/16"
W.	1700419	Lock Nut - 5/16"
Y.	1700407	Hex Nut - 3/8"
DD.	1700428	Flat Washer - 5/16"
FF.	1700434	Lock Washer - 3/8"

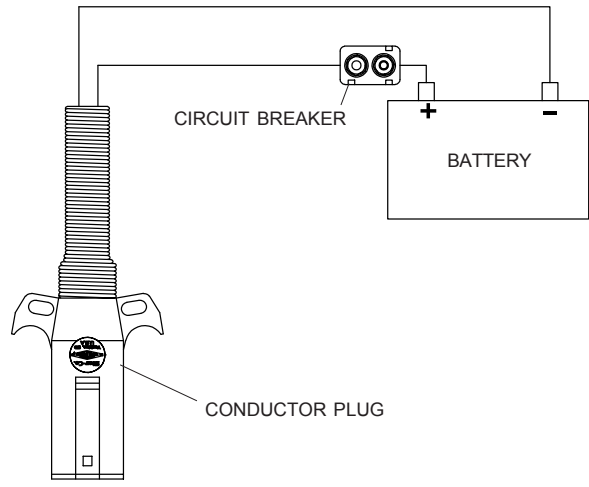


NOTICE
 Do not power any Shur-Co® wireless system with battery charger alone, as this will likely cause system abnormalities and/or system malfunction. Instead, use 12-volt truck/automobile battery to provide power to trailer.

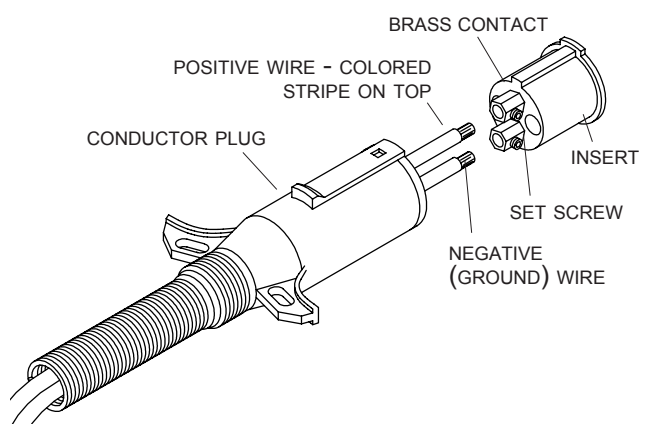


NOTE: Only hook up one electric tarp system at a time.

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

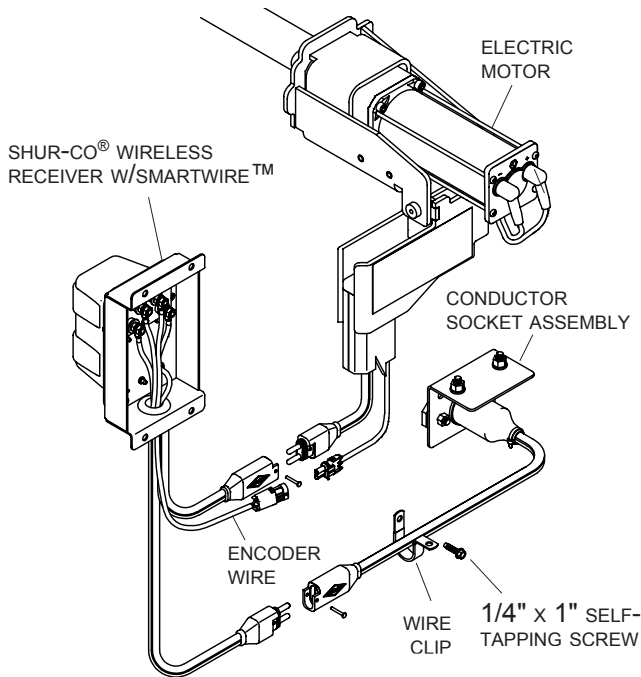


STEP 2: Unfasten and remove insert from conductor plug. Feed 6-ga. wire through plug and into brass contacts on insert. Tighten set screws to secure wires. Replace insert into conductor plug and secure screw.



STEP 1: For ease of operation from ground, locate wireless receiver on front of dump body. Fasten receiver to dump body with screws **Ⓕ** or drill 5/16" holes and fasten with screws **Ⓕ**, washers **ⒽⒽ** and nuts **⒴**.

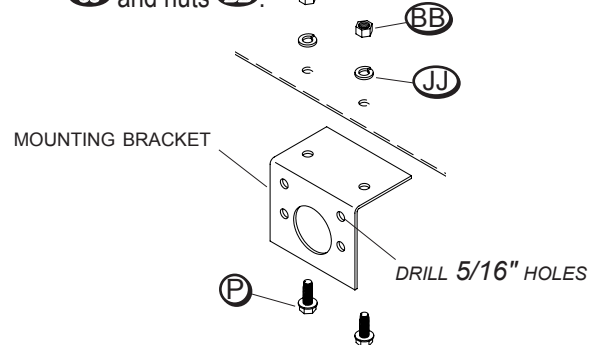
STEP 2: Connect SMARTwire™ from wireless receiver to SMARTwire™ from electric motor. Secure connections with lock pins. For SMARTwire™ systems, connect encoder wire from receiver to encoder wire from motor. Secure wires to trailer with cable clips and screws. If needed, use cable ties.



STEP 3: Check motor direction by activating switch to *Open*. If switch is running system backwards, program remote to wireless receiver and rewire as directed in troubleshooting guide in remote instructions.

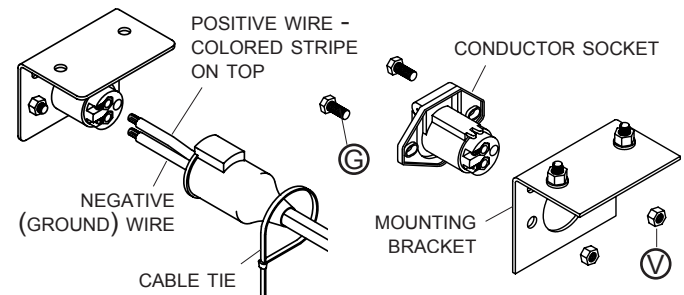
NOTE: Receiver may be pressure washed, but keep nozzle at least 3' from system while spraying.

STEP 1: Mount bracket at suitable location on front of trailer, usually near existing plugs. Mark and drill 5/16" holes and fasten with 3/8" x 1" self-tapping screws **Ⓐ**, lock washers **ⒿⒿ** and nuts **ⓃⓃ**.



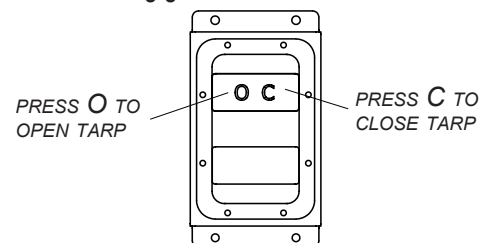
STEP 2: Identify 65' 6-ga. or 90' 4-ga. SMARTwire™. Route bare end of wire along dump body from wireless receiver mounted on dump body to pivot point on trailer. Continue routing bare end of wire along trailer frame from pivot point on trailer to conductor socket.

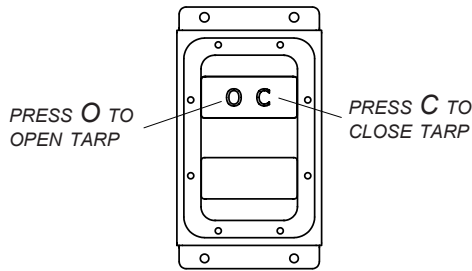
STEP 3: Fasten conductor socket to mounting bracket with 5/16" x 3/4" cap screws **Ⓖ** and lock nuts **Ⓝ**. Bring 6-ga. wire from lower end of pivot arm through sealed boot. Connect wire ends to conductor socket, aligning positive wire on socket with positive wire on conductor plug. Slide sealed boot against conductor socket and secure boot to wire with cable tie.



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

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.





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).

WARNING

**DO NOT OPERATE
MOTORIZED SYSTEMS
WHILE INDIVIDUALS
ARE ON OR OCCUPYING
BOX/TRAILER/HOPPER.**

Decal P/N 1705546

NOTICE

THIS TARP SYSTEM OPERATES IN EXPRESS MODE. UPON PRESSING THE **O**PEN/**C**LOSE 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.

WARNING

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



1-800-474-8756
SHURCO.com



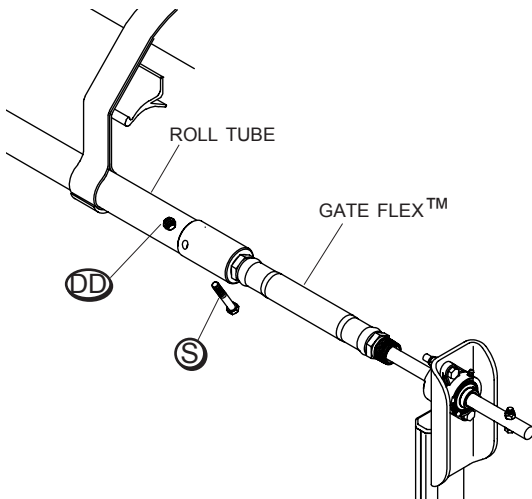
⚠ WARNING

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.

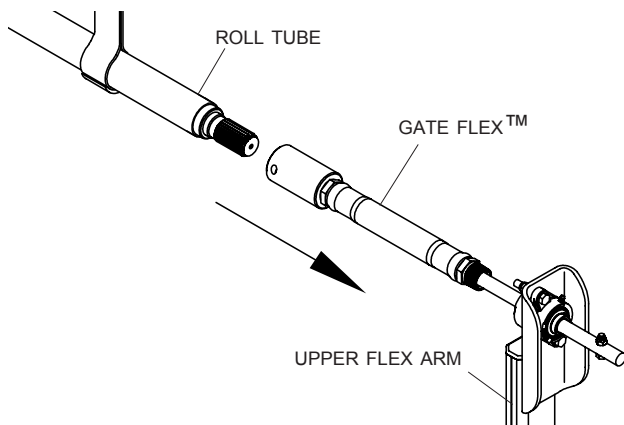
NOTE: Store manual crank arm either in truck or mounted to trailer. (Example: above kingpin in apex.)

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

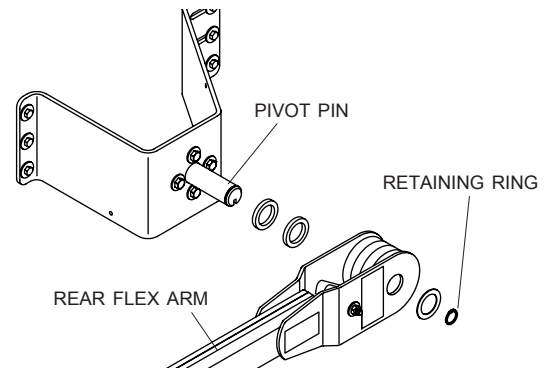
STEP 1: Close tarp but let roll tube hang loose under latchplate. Remove 3/8" x 2-1/2" cap screw **S** and lock nut **DD** from Gate Flex™.



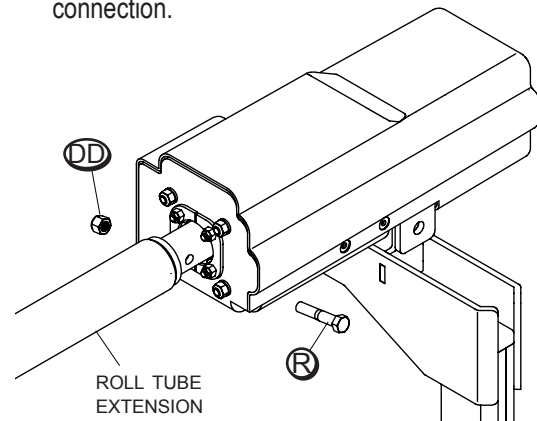
STEP 2: Carefully slide Gate Flex™ off roll tube. Flex arm will be under tension and have some downward force.



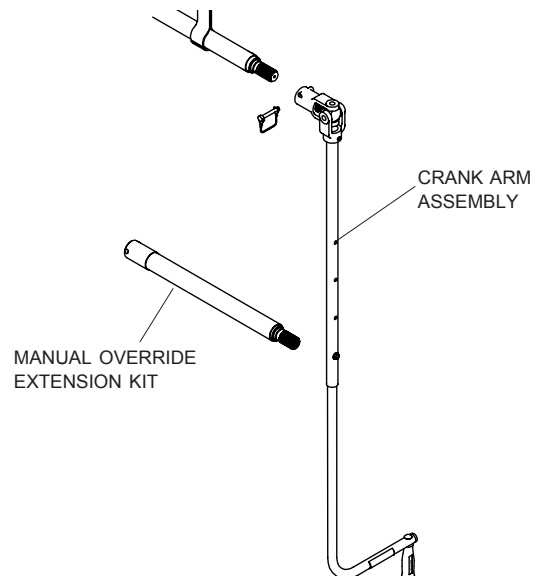
STEP 3: Remove retaining ring on rear flex arm. Carefully slide arm off pivot pin.



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

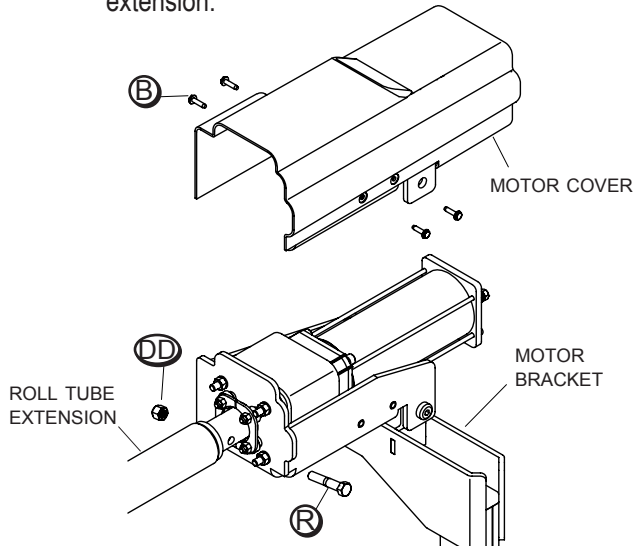


STEP 5: Install crank arm assembly as shown in Shur-Lok® owner's manual, at www.shurco.com. You may need optional manual override extension kit (P/N 1117022).



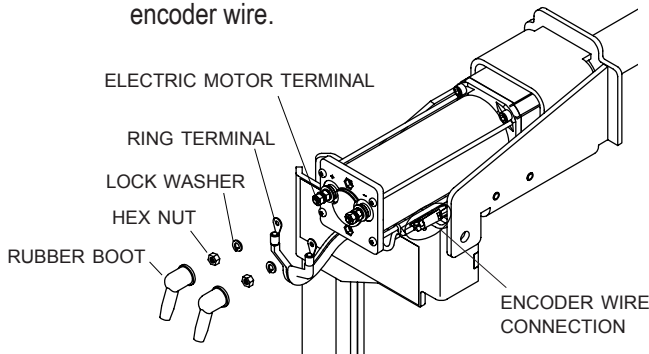
REMOVE EXISTING MOTOR

STEP 1: Disconnect electric power to trailer. Unfasten and remove motor cover. Unfasten 3/8" x 2" cap screw **(B)** and lock nut **(DD)** holding motor shaft to roll tube extension.

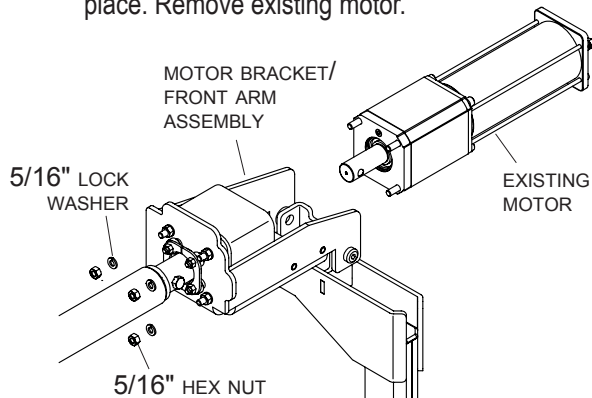


NOTE: Leave roll tube fastened to motor bracket.

STEP 2: Disconnect electric wires from motor terminals and encoder wire.

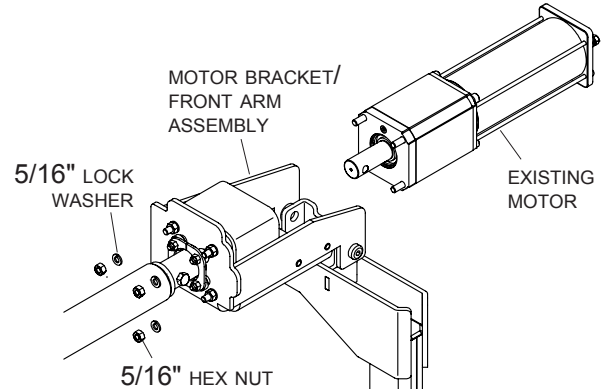


STEP 3: Unfasten and remove only 5/16" lock washers and hex nuts holding motor to motor bracket/front arm assembly, leaving motor mount bearing retainers in place. Remove existing motor.

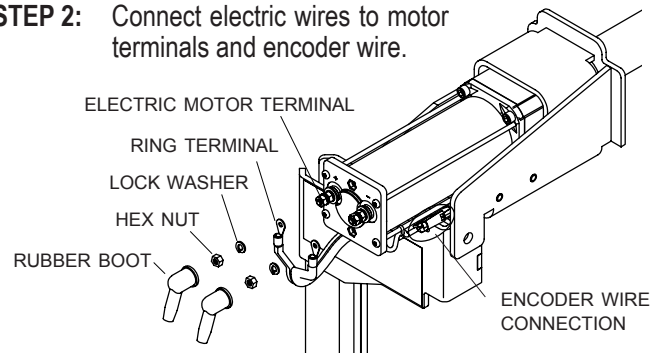


INSTALL NEW MOTOR

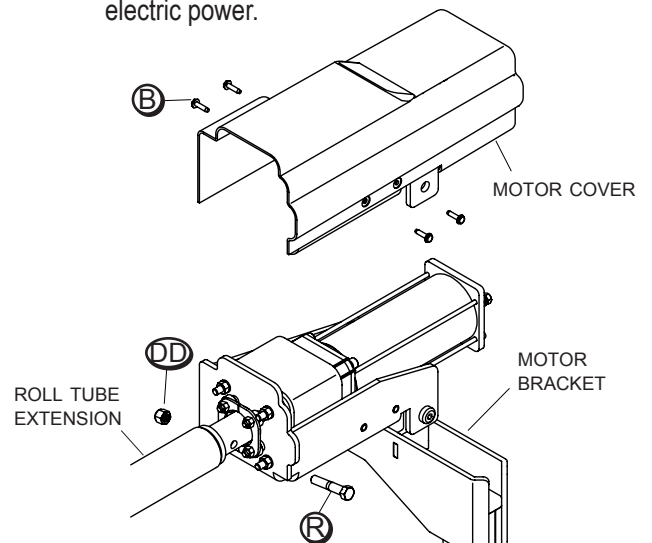
STEP 1: Install new motor. Fasten motor to motor bracket with 5/16" washers and nuts.



STEP 2: Connect electric wires to motor terminals and encoder wire.



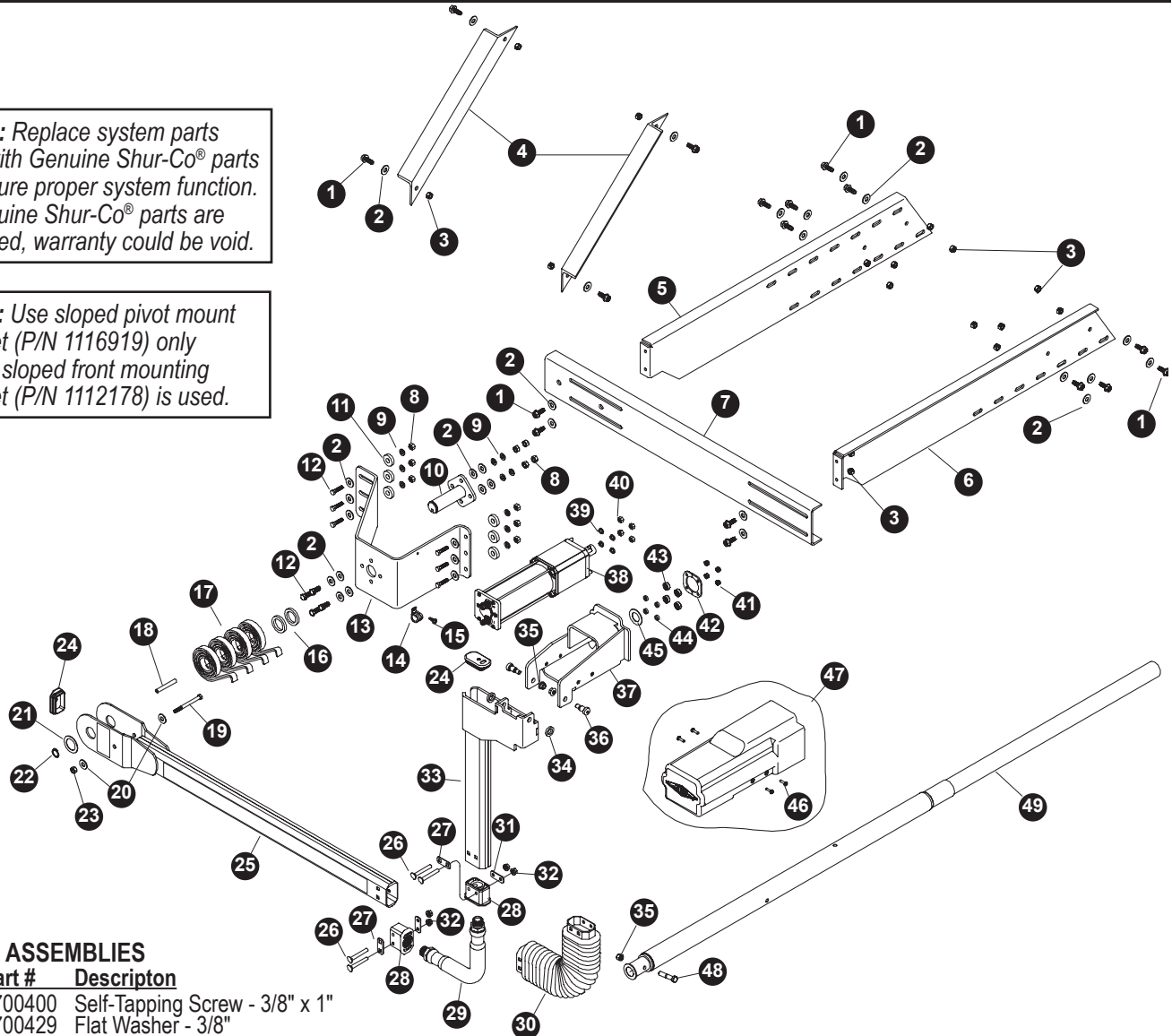
STEP 3: Fasten motor shaft to roll tube with 3/8" x 2" cap screw **(B)** and lock nut **(DD)**. Replace motor cover and fasten to motor with #10 x 3/4" cap screws **(B)**. Reconnect electric power.



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

NOTE: Replace system parts only with Genuine Shur-Co® parts to ensure proper system function. If Genuine Shur-Co® parts are not used, warranty could be void.

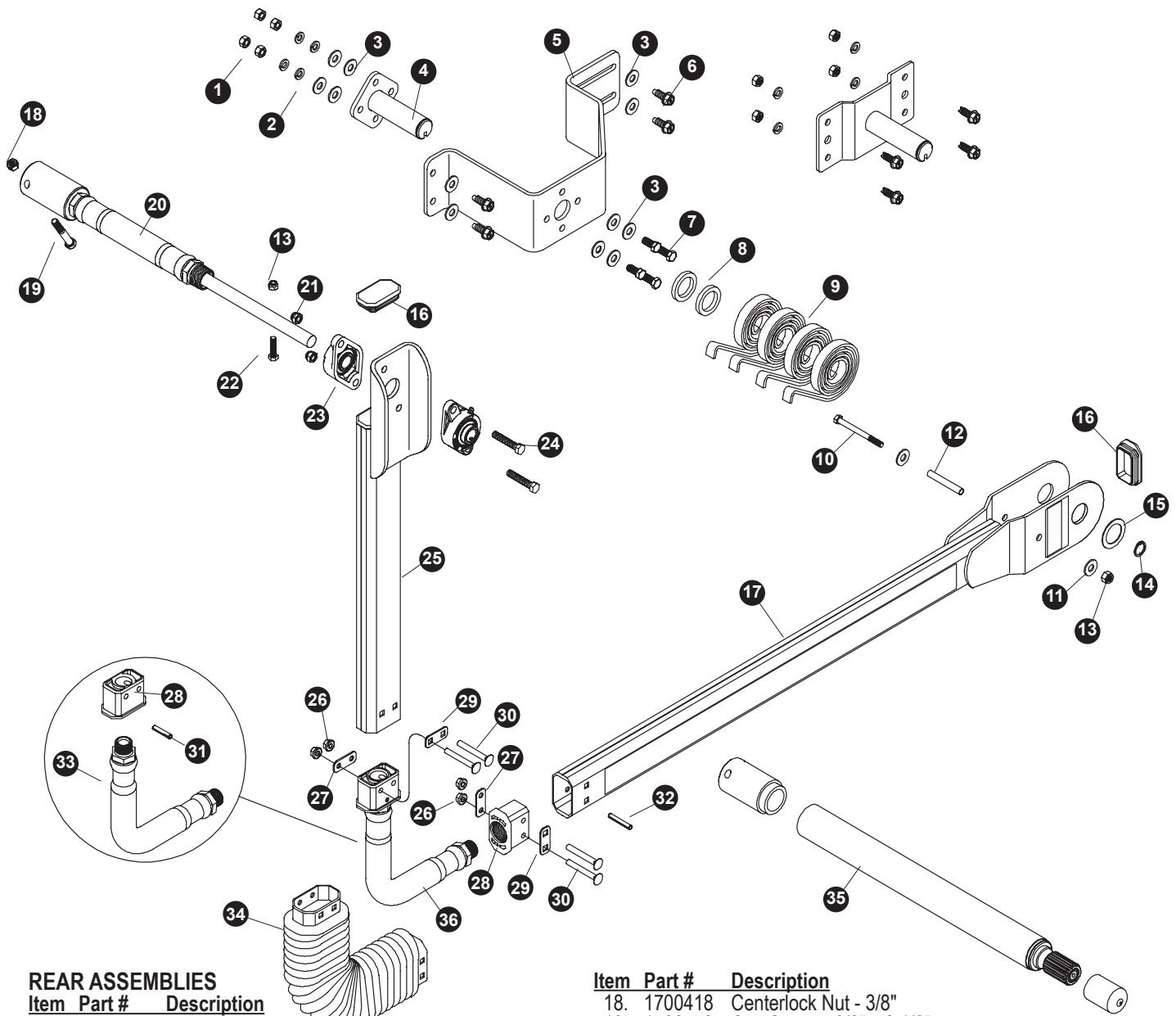
NOTE: Use sloped pivot mount bracket (P/N 1116919) only where sloped front mounting bracket (P/N 1112178) is used.



FRONT ASSEMBLIES

Item	Part #	Description
1.	1700400	Self-Tapping Screw - 3/8" x 1"
2.	1700429	Flat Washer - 3/8"
3.	1700418	Centerlock Nut - 3/8"
4.	1112310	Extended Extension Support Bracket
5.	1113306	Universal Extension Bracket - Passenger Side
6.	1113307	Universal Extension Bracket - Driver Side
7.	1112178	Fiber Arm Mounting Bracket
8.	1700407	Hex Nut - 3/8"
9.	1700434	Lock Washer - 3/8"
10.	1116920	Pivot Pin - 4 Spring
11.	1120291	Pivot Bracket Washer
12.	1702891	Cap Screw - 3/8" x 1 1/4"
13.	1121582	Pivot Mount Bracket - 7 1/4" Vertical
14.	1116919	Pivot Mount Bracket - 7 1/4" Sloped
15.	1702108	Wire Clip - 3/4" ID
16.	1700398	Self-Drilling Screw - 1/4" x 3/4"
17.	1118318	Spacer Washer - 1/4" x 1.81" OD x 1.28"
18.	1111027	Spiral Torsion Spring
19.	1117033	Spacer Tube - .35" x 2 5/8"
20.	1201022	Cap Screw - 5/16" x 3 1/2"
21.	1700428	Flat Washer - 5/16"
22.	1702890	Flat Washer - 1 1/4"
23.	1702888	Retaining Ring - 1 1/4"
24.	1700419	Nylon Lock Nut - 5/16"
25.	1704893	Cap Plug w/Hole
26.	1121617	Lower Flex Arm w/Warning Decals (includes items 18; 19; 20; 23; 25)

Item	Part #	Description
26.	1701455	Carriage Bolt - 5/16" x 2 1/2"
27.	1121414	Bellow Plate - Square Holes
28.	1704891	4500 Series HD End Fitting
29.		Flex Arm Joint
30.	1704775	4500 Series HD Bellow
31.	1121413	Bellow Plate - Round Holes
32.	1704931	Flanged Nylon Lock Nut - 5/16"
33.	1121289	Upper Flex Arm - Motor
34.	1120677	Upper Arm Spacer
35.	1701283	Flanged Top Lock Nut - 3/8"
36.	1704778	Shoulder Bolt - 1/2" x 5/8" - 3/8" x 1/2" Thd.
37.	1120776	4500 Motor Mount - 7 1/4"
38.	1120967	4500 Series HD Electric Motor
39.	1700433	Lock Washer - 5/16"
40.	1700411	Hex Nut - 5/16"
41.	1701543	Nylon Lock Nut - 1/4"
42.	1120681	Motor Mount Bearing Retainer
43.	1704736	Radial Ball Bearing - 1/4" x 3/4"
44.	1120680	Motor Mount Bearing Spacer
45.	1120679	Motor Spacer
46.	1704367	Hex Flange Cap Screw - #10 x 3/4"
47.	1121659	4500 Series HD Motor Cover Kit
48.	1704264	Cap Screw - 3/8" x 2" - Grade 8
49.	1120699	Roll Tube Extension w/Drive Shaft - 74.87"



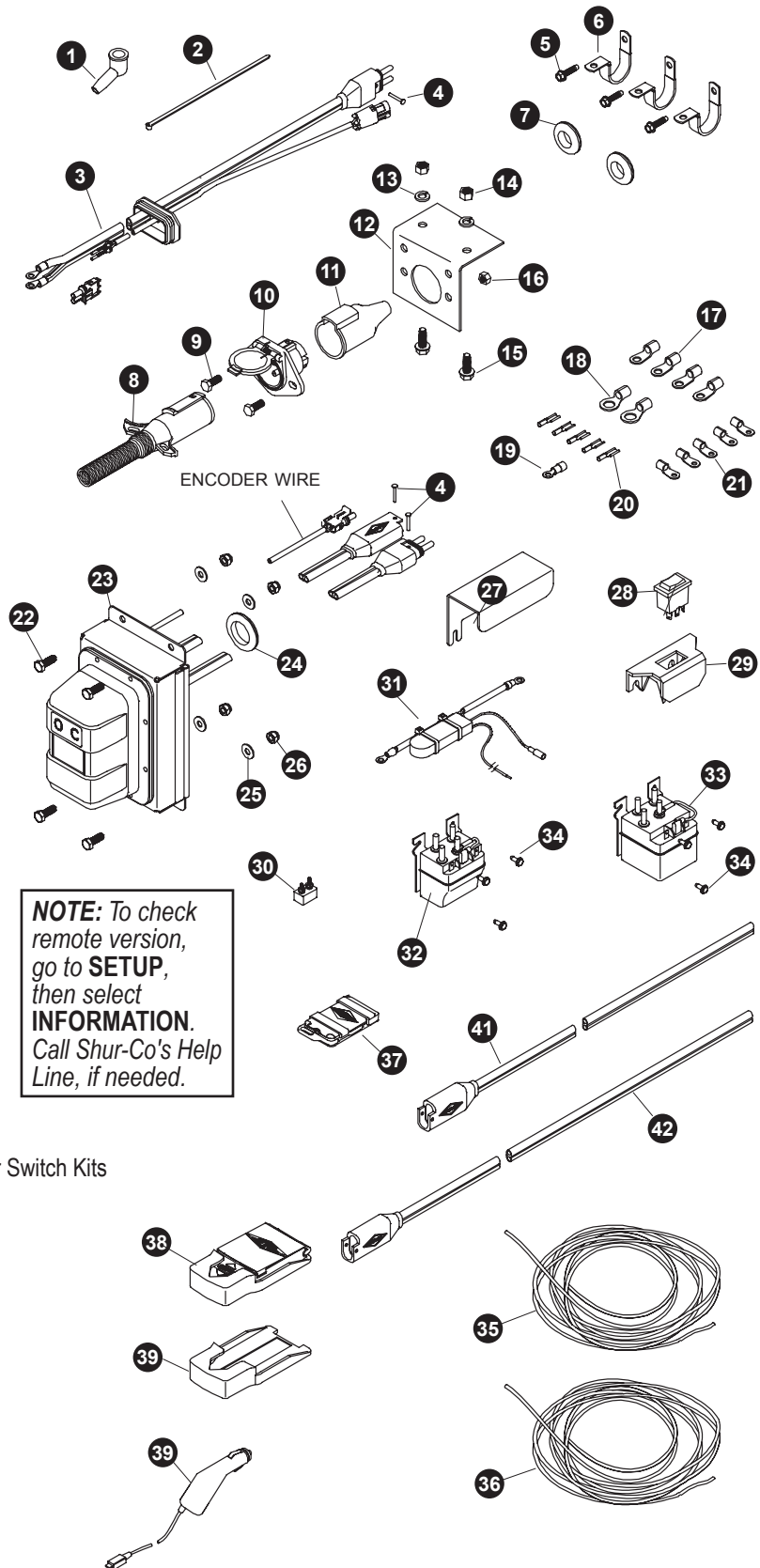
REAR ASSEMBLIES

Item	Part #	Description
1.	1700407	Hex Nut - 3/8"
2.	1700434	Lock Washer - 3/8"
3.	1700429	Flat Washer - 3/8"
4.	1116920	Pivot Pin - 4 Spring
5.	1116919	Pivot Mt. Bracket - Vertical - 7 1/4" Standoff
6.	1700400	Self-Tapping Screw - 3/8" x 1"
7.	1702891	Cap Screw - 3/8" x 1 1/4"
8.	1118318	Spacer Washer - 1/4" x 1.81" OD x 1.28"
9.	1111027	Spiral Torsion Spring
10.	1201022	Cap Screw - 5/16" x 3 1/2"
11.	1700428	Flat Washer - 5/16"
12.	1117033	Spacer Tube - .35" x 2 5/8"
13.	1700419	Nylon Lock Nut - 5/16"
14.	1702888	Retaining Ring - 1 1/4"
15.	1702890	Flat Washer - 1 1/4"
16.	1704892	Cap Plug
17.	1121294	Lower Flex Arm w/Warning Decals (includes Items 10; 11; 12; 13; 17)

Item	Part #	Description
18.	1700418	Centerlock Nut - 3/8"
19.	1702573	Cap Screw - 3/8" x 2 1/2"
20.	1116990	Gate Flex™
21.	1701580	Nylon Lock Nut - 3/8"
22.	1703487	Cap Screw - 5/16" x 1 1/2"
23.	1704703	Flange Bearing - 20mm - 2 Bolt
24.	1704264	Cap Screw - 3/8" x 2"
25.	1121649	Upper Flex Arm - Gate Flex™
26.	1704931	Flanged Nylon Lock Nut - 5/16"
27.	1121413	Bellow Plate - Round Holes
28.	1704891	4500 Series HD End Fitting
29.	1121414	Bellow Plate - Square Holes
30.	1701455	Carriage Bolt - 5/16" x 2 1/2"
31.	1704966	Spring Pin - 1/4" x 1 3/8"
32.	1701360	Spring Pin - 1/4" x 1 3/4"
33.	1703873	Flex Arm Joint
34.	1704775	4500 Series HD Arm Bellow - Rubber
35.	1117022	Manual Override Extension Kit (optional)
36.	1121655	Flex Arm Joint Assembly

ELECTRIC COMPONENTS

Item	Part #	Description
	1116473	Cab Wiring Kit - Rocker Switch
	1119643	Cab Wiring Kit - SMART™ Remote - 30'
	1116930	Trailer Wiring Kit - Rocker Switch
	1118368	Electric Parts Kit w/Rocker Switch - 40-Amp Mod.
1.	1704330	Rubber Boot
2.	1703231	Cable Tie - 8"
3.	1125612	SMARTwire™ - 6 Ga. - Plug - 10' 9" w/Encoder Wire
4.	1704751	Harness Lock Pin - 1/4" x 7/8"
5.	1704338	Self-Tapping Screw - 1/4" x 1"
6.	1702108	Wire Clip - 3/4"
7.	1703282	Rubber Grommet - 1 1/4" Insert
8.	1115385	Heavy-Duty Dual-Conductor Plug
9.	1701045	Cap Screw - 5/16" x 3/4"
10.	1119557	Heavy-Duty Dual-Conductor Socket
11.	1704573	Conductor Socket Sealing Boot
12.	1109015	Mounting Bracket
13.	1700434	Lock Washer - 3/8"
14.	1700407	Hex Nut - 3/8"
15.	1700400	Self-Tapping Screw - 3/8" x 1"
16.	1700411	Hex Nut - 5/16"
17.	1703245	Ring Terminal - 6 Ga. x #10 Stud - Motor/Breaker
18.	1703244	Ring Terminal - 6 Ga. x 3/8" Stud - Battery
19.	1704153	Ring Terminal - 14 Ga. x 1/4" Stud - Solenoid
20.	1703659	Push-On Terminal - 14 Ga. 1/4" - Switch/Solenoid
21.	1702707	Ring Terminal - 6 Ga. 1/4 Stud - Motor/Solenoid
22.	1702926	Cap Screw - 5/16" x 7/8"
23.	1125007	Shur-Co® Wireless Receiver - Version 11 - SMART2™ w/SMARTwire™
	1126863	Shur-Co® Wireless Receiver - SMART3™
24.	1202938	Rubber Grommet - 1 1/2" Insert
25.	1700428	Flat Washer - 5/16"
26.	1700419	Lock Nut - 5/16"
27.	1703896	Solenoid Cover
28.	1116020	Rocker Switch
29.	1703661	Rocker Switch Mounting Bracket
30.	1704354	40-Amp Modified-Reset Circuit Breaker
31.	1705624	50-Amp SMART Circuit Breaker
32.	1704312	Motor-Reversing Solenoid - 3 Pt. Mt.
33.	1703845	Motor-Reversing Solenoid - In-Cab Rocker Switch Kits
34.	1704308	Flanged Cap Screw - #10 x 1/2"
35.	1703822	Dual Conductor Wire - 6 Ga. - 259 Strand
36.	1116482	Electrical Wire - 14 Ga. 3 Lead - 15'
37.	1126867	SMART3™ Remote
38.	1122231	SMART2™ Remote w/Cradle
39.	1704957	SMART2™ Cradle
40.	1704958	SMART2™ Charger Cable
41.	1704998	SMARTwire™ - 6 Ga. x 65' - Socket
42.	1704989	SMARTwire™ - 4 Ga. x 90' - Socket



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 - **SMART3™ Remote**
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 - **Electric Shur-Lok®**
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 - **ProTrap® Hopper Opener**
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 - **DriveMaxx™ Auger Drive**
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 - **Solar Power Pack**
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TARPING SYSTEMS & ACCESSORIES

