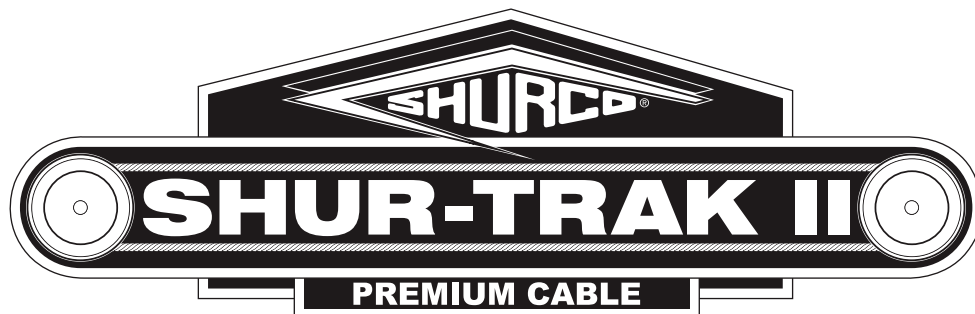




TARPING SYSTEMS & ACCESSORIES

P/N 1115039 Rev. LL

OWNER'S MANUAL



End Dumps, Belly Dumps & Dump Bodies

READ BEFORE INSTALLING

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

SHOP ONLINE: www.shopshurco.com

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

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

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

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

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

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

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

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

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

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 Fax +44 (0)871.272.8278

For more info, log on to our website:
www.shurco.com

MESSAGE TO OWNERS

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

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

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

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

QUESTIONS? CALL OUR HELP LINE:

1-866-748-7435

MON-FRI 8 AM-5 PM CENTRAL TIME

SAFETY

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

Get the Most From Your Shur-Trak II™

Drive with your Shur-Trak II™ cover closed to...

- Decrease drag
- Improve gas mileage
- Increase tarp life by reducing wear

SAFETY INSTRUCTIONS

- 1. Always wear safety glasses during installation and operation.**
- 2. Keep body and clothing clear of moving parts.**
- 3. No other use of this system is authorized, except as designed.**
- 4. Use only OSHA-approved ladders or scaffolding during installation process.**

TARP & PARTS INSPECTION

Measure your tarp length while applying slight tension to tarp. Compare this measurement to the length listed on the sheet attached to your tarp. Please inspect your Shur-Trak II™ kit and repair or replace parts when continued use could damage your system.

RUST PREVENTION

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

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





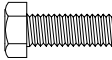
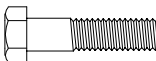
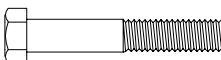



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
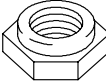










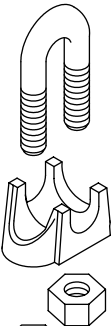
Troubleshooting Guide46

TOOLS REQUIRED

1. Welder (optional)
2. Center Punch or Transfer Punch
3. #3 Phillips Insert Bit
4. Air or Electric Impact Wrench (9/16" deep socket)
5. 9/16" Combination Wrench
6. 1/2" Combination Wrench
7. 3/4" Combination Wrench
8. 3/8" Drill
9. 5/16" Drill Bit (for 3/8" self-tapping screws)
10. Grinder
11. Pliers
12. Level
13. 5/16" Magnetic Tip Driver
14. Hack Saw (metal cutter)
15. 1/8" Hex Wrench
16. Hammer

- A**  1704308 - Flange Cap Screw - #10 x 1/2"
- B**  1701471 - Self-Drilling Screw - #12 x 1"
- C**  1701520 - Screw/Washer - #12 x 3/4"
- D**  1700398 - Self-Drilling Screw - 1/4" x 3/4"
- E**  1700403 - Self-Tapping Screw - 1/4" x 3/4"
- F**  1702926 - Cap Screw - 5/16" x 7/8"
- G**  1701045 - Cap Screw - 5/16" x 3/4"
- H**  1701493 - Soc. Cap Screw - 5/16" x 1 1/2"
- I**  1701468 - Cap Screw - 5/16" x 1 3/4"
- J**  1703487 - Cap Screw - 5/16" x 1 1/2"
- K**  1701420 - Cap Screw - 5/16" x 2"
- L**  1705051 - Carriage Bolt - 3/8" x 1"
- M**  1700400 - Self-Tapping Screw - 3/8" x 1"

- N**  1700411 - Hex Nut - 5/16"
- O**  1700419 - Nylon Lock Nut - 5/16"
- P**  1702492 - Top Lock Nut - 5/16"
- Q**  1700407 - Hex Nut - 3/8"
- R**  1700418 - Centerlock Nut - 3/8"
- S**  1701580 - Nylon Lock Nut - 3/8"
- T**  1701061 - Cap Screw - 3/8" x 1"
- U**  1701434 - Cap Screw - 3/8" x 1 1/2"
- V**  1700371 - Cap Screw - 3/8" x 3"
- W**  1702667 - Cap Screw - 3/8" x 2 1/4"
- X**  1702080 - Carriage Bolt - 3/8" x 4"
- Y**  1701042 - Cap Screw - 1/2" x 2"

- Z**  1700413 - Hex Jam Nut - 1/2"
- a**  1701145 - Nylon Lock Nut - 1/2"
- b**  1700427 - Flat Washer - 1/4"
- c**  1700433 - Lock Washer - 5/16"
- d**  1700428 - Flat Washer - 5/16"
- e**  1201237 - Flat Washer - 5/16" SS
- f**  1700434 - Lock Washer - 3/8"
- g**  1701176 - Flat Washer - 3/8"
- h**  1700429 - Flat Washer - 3/8"
- j**  1700430 - Flat Washer - 7/16"
- k**  1701440 - Crimp Ring Retainer
- m**  1701470 - U-Bolt - 5/16"
- n**  1701441 - Cable Clamp - 1/4"

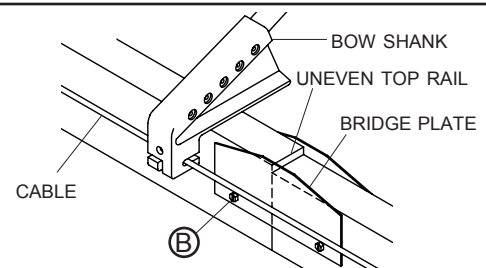
NOTE: Throughout manual, wherever 3/8" x 1" self-tapping screws are used, use with lock washers and nuts, if possible. Self-tapping screws used without washers and nuts require a minimum wall thickness of 3/16". Drill 5/16" holes.

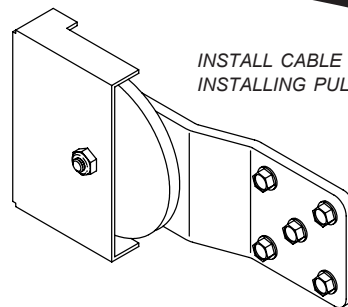
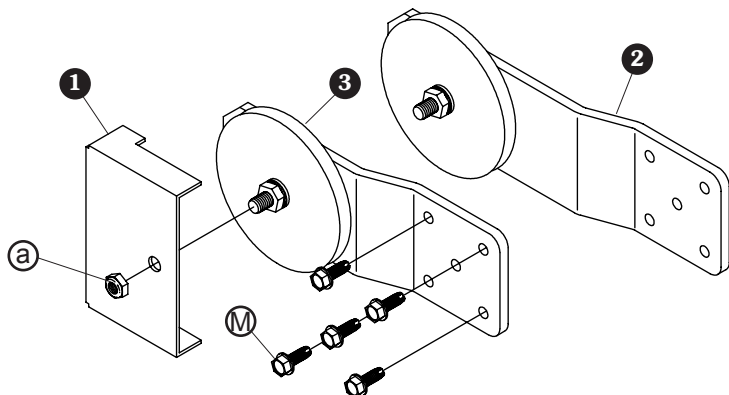
BOX PREPARATION

Prepare truck box before installing Shur-Trak II™. Bow shanks will slide across top of side rails as tarp opens and closes. Remove sharp edges along top rail so bows can slide smoothly.

If top rail is uneven or has gaps that cannot be repaired, Shur-Co® has bridge plates (P/N 1110395) available to enable bow shanks to ride up and over these areas. Fasten bridge plates on each side of top rail with screws **B**.

Fabricate and install additional framework as needed to support your Shur-Trak II™.



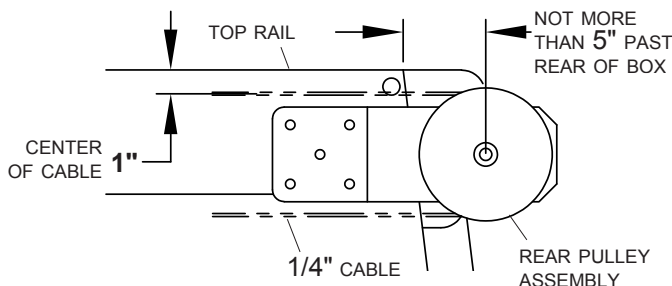


NOTE: Rear pulley location should have been determined at time of sale. Shur-Co® recommends distance from back of box to center of pulley not exceed 5".

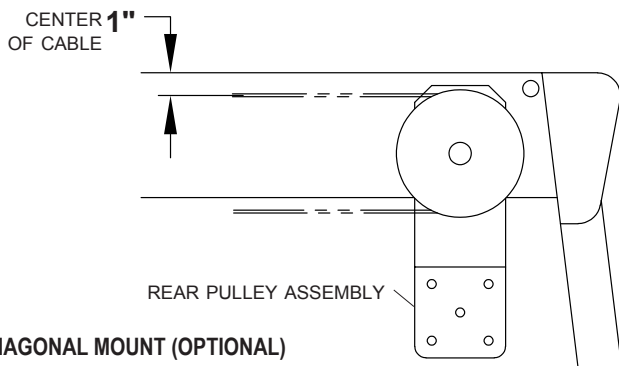
Item	Part #	Description
1.	1107971	Rear Pulley Guard
2.	1110708	Extended Rear Pulley Assembly
3.	1107999	Rear Pulley Assembly
M.	1700400	Self-Tapping Screw - 3/8" x 1"
a.	1701145	Nylon Lock Nut - 1/2"

STEP 1: Determine rear pulley location. Locate rear pulley as shown below.

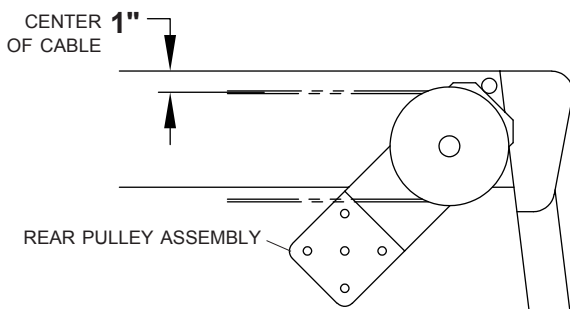
HORIZONTAL MOUNT (STANDARD)



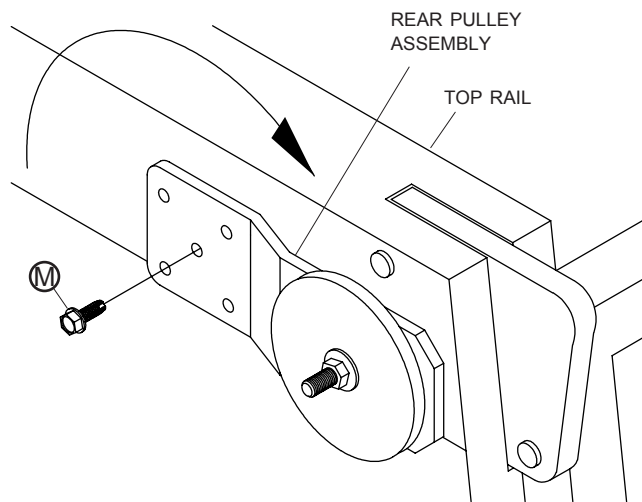
VERTICAL MOUNT (OPTIONAL)



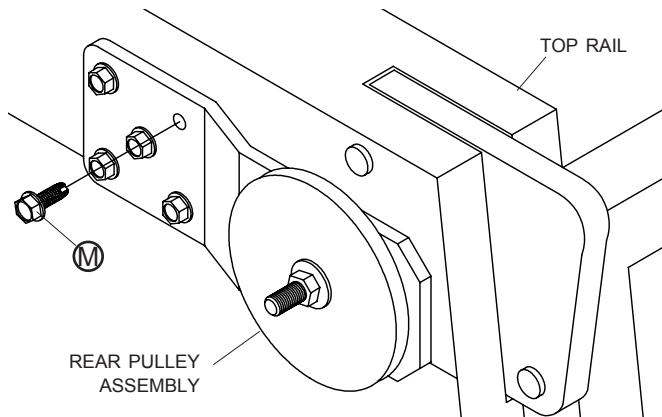
DIAGONAL MOUNT (OPTIONAL)

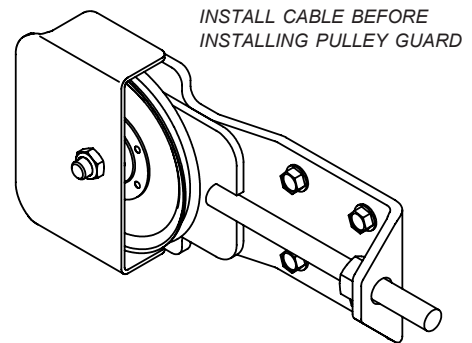
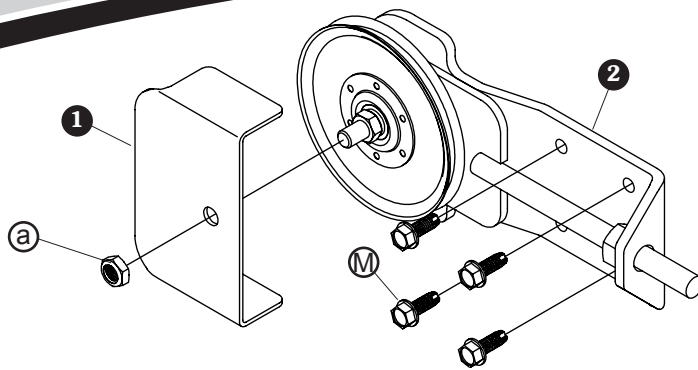


STEP 2: Mark center hole location 3 9/16" below sliding surface (top rail). Drill 5/16" hole and install screw (M). Rotate pulley assembly around screw (M) so center of cable rests 1" below top of rail.



STEP 3: Mark and drill remaining four holes and fasten with screws (M).

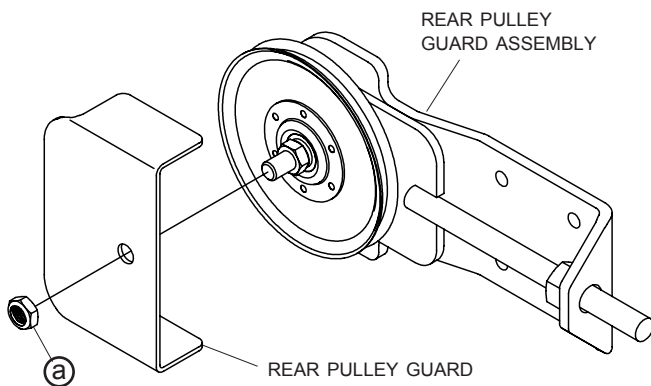




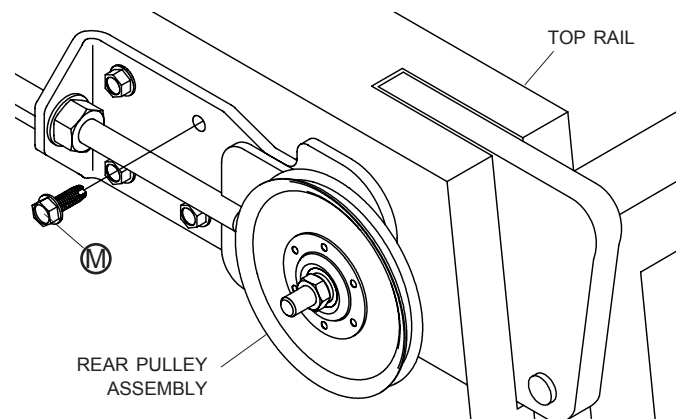
NOTE: Rear pulley location should have been determined at time of sale. Shur-Co® recommends distance from back of box to center of pulley not exceed 5".

Item	Part #	Description
1.	1117242	Adjustable Rear Pulley Guard
2.	1125912	Adjustable Rear Pulley Assembly
M	1700400	Self-Tapping Screw - 3/8" x 1"
a.	1701145	Nylon Lock Nut - 1/2"

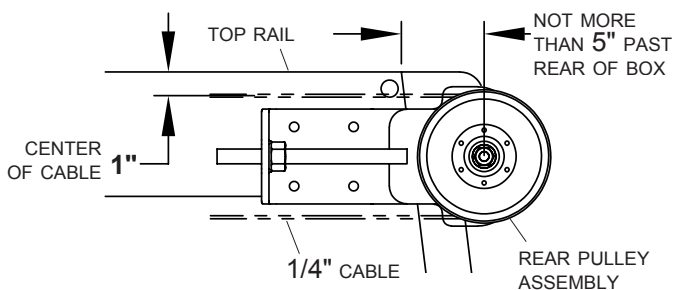
STEP 1: Remove lock nut **a** and adjustable rear pulley guard from adjustable rear pulley guard assembly.



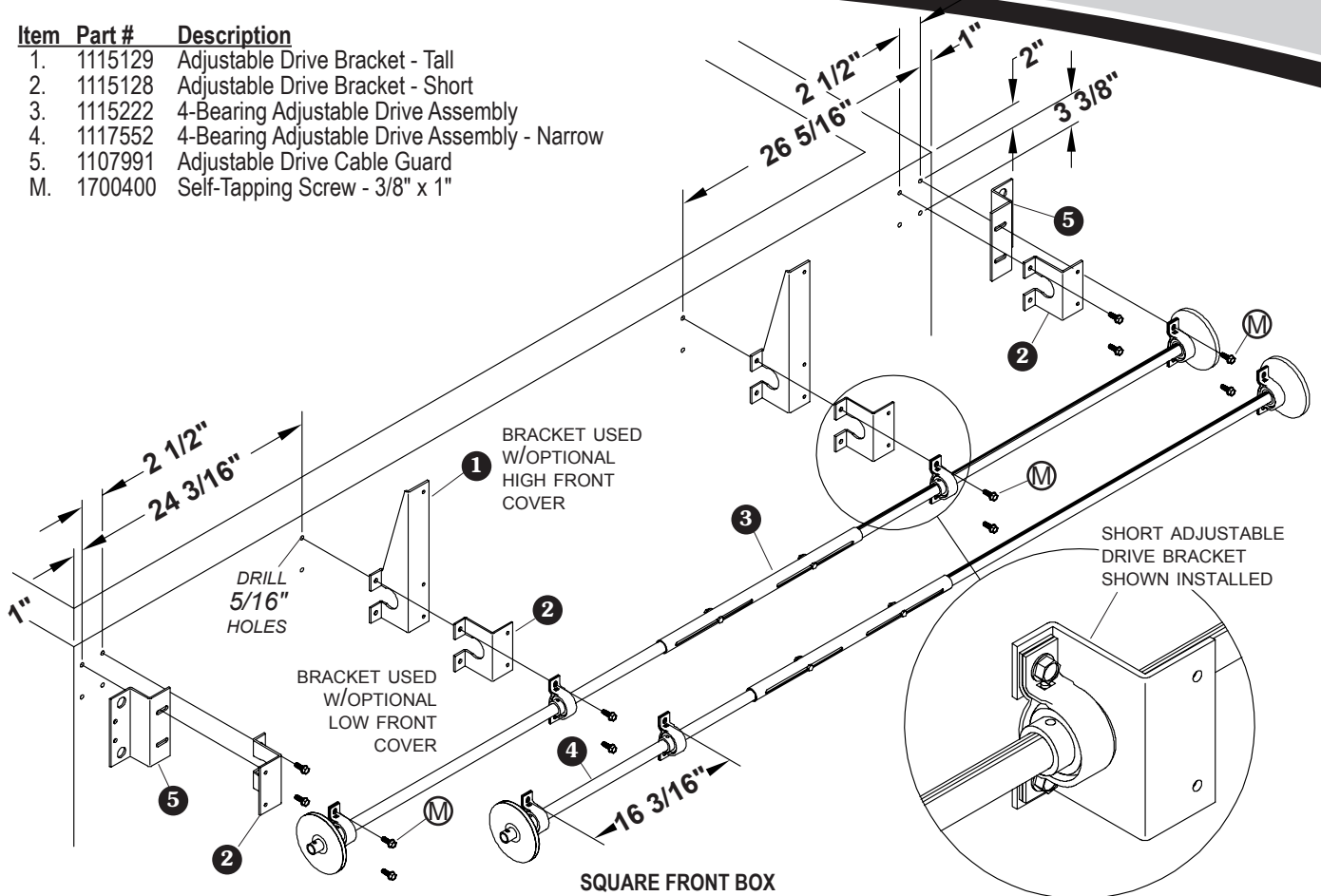
STEP 3: Using holes in adjustable pulley bracket as guide, mark and drill 5/16" holes. Fasten with screws **M**.



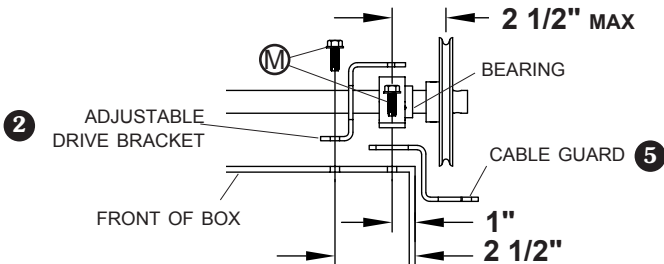
STEP 2: Determine rear pulley location. Locate rear pulley as shown below.



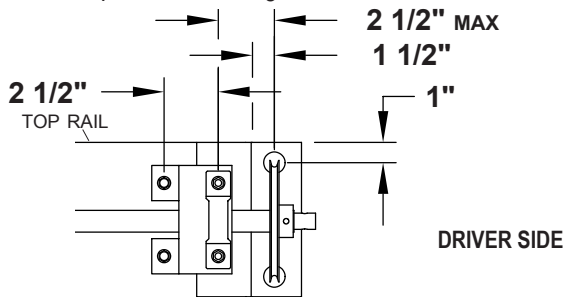
Item	Part #	Description
1.	1115129	Adjustable Drive Bracket - Tall
2.	1115128	Adjustable Drive Bracket - Short
3.	1115222	4-Bearing Adjustable Drive Assembly
4.	1117552	4-Bearing Adjustable Drive Assembly - Narrow
5.	1107991	Adjustable Drive Cable Guard
M.	1700400	Self-Tapping Screw - 3/8" x 1"



STEP 1: Mark and drill 5/16" holes as shown above. Loosely fasten 1" pillow block bearings, cable guards and adjustable drive brackets (optional) to front of box with screws M.

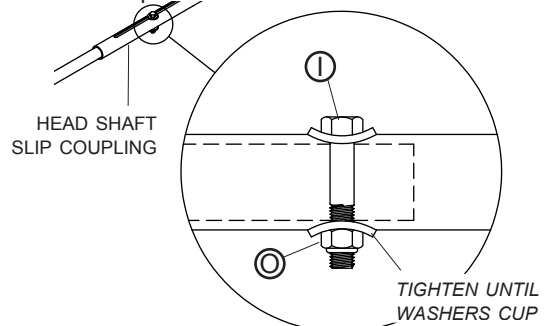


STEP 2: Adjust head shaft, cable guards and pulleys so center of cable will be 1" below and 1 1/2" past top rail at widest point on box. Tighten screws.

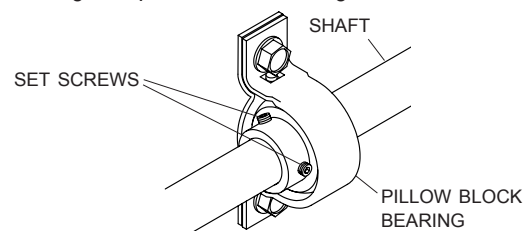


NOTE: Distance from center line of bearing to center line of pulley must not exceed 2 1/2". Keep in mind, trailer may vary in width from front to rear.

STEP 3: Tighten screws 1 on head shaft slip coupling until washers cup.

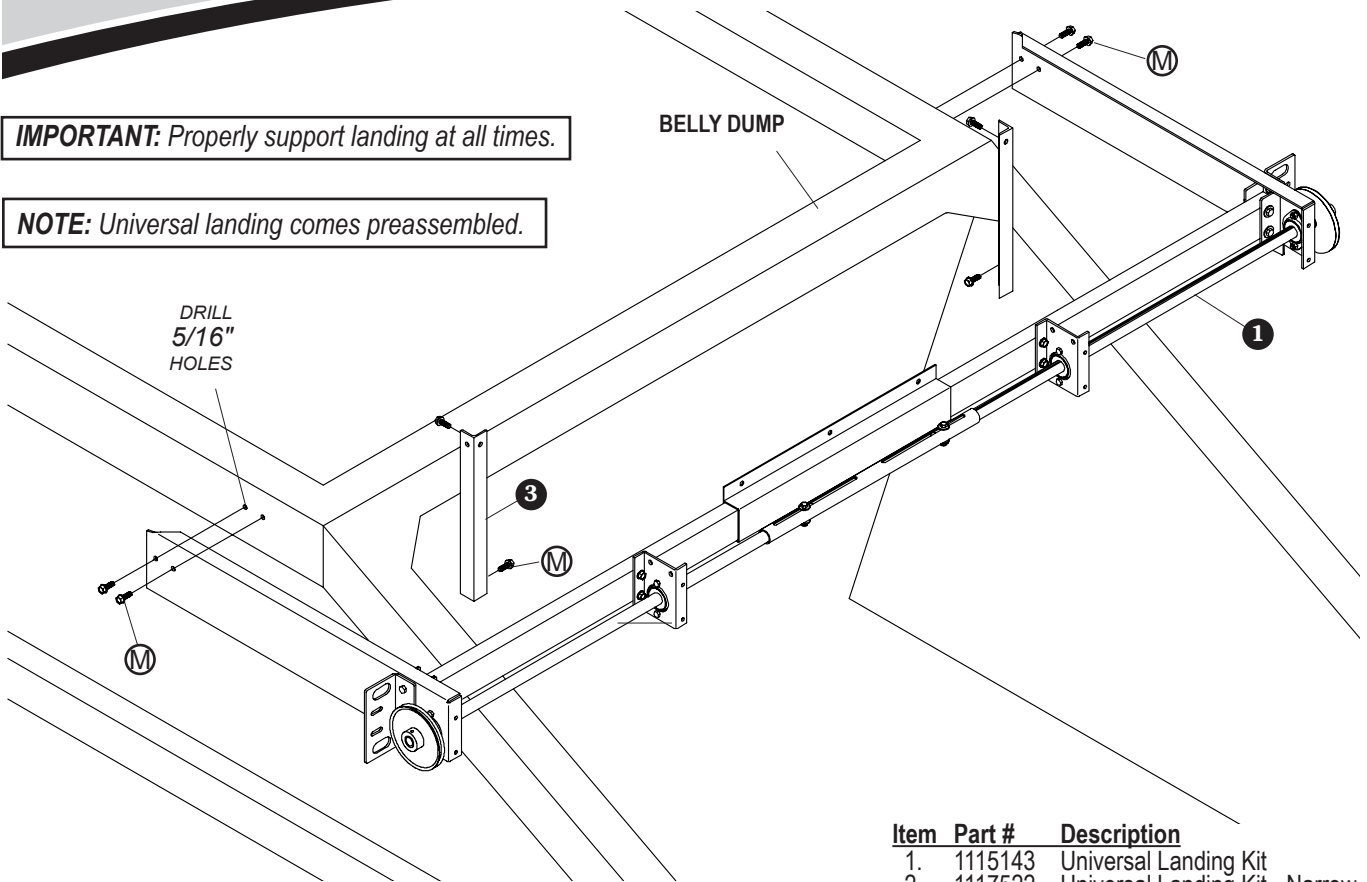


STEP 4: Tighten pillow block bearing set screws to shaft.

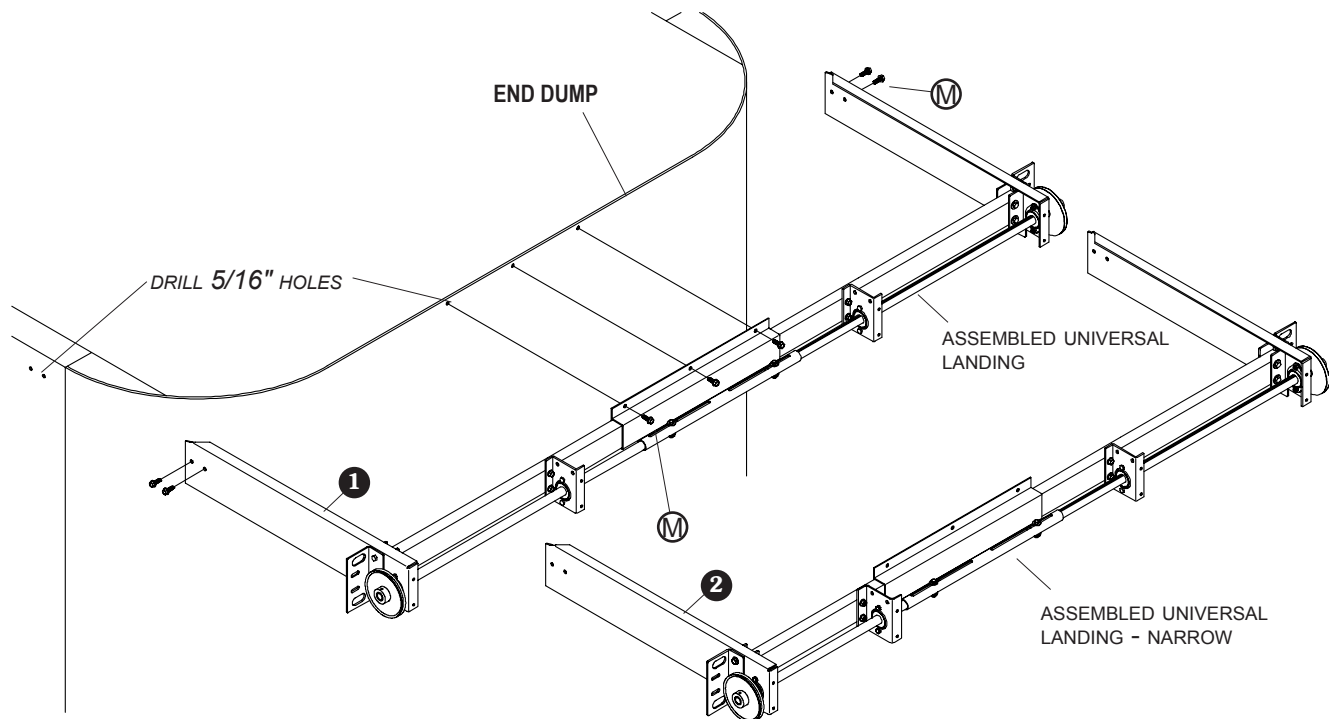


IMPORTANT: Properly support landing at all times.

NOTE: Universal landing comes preassembled.

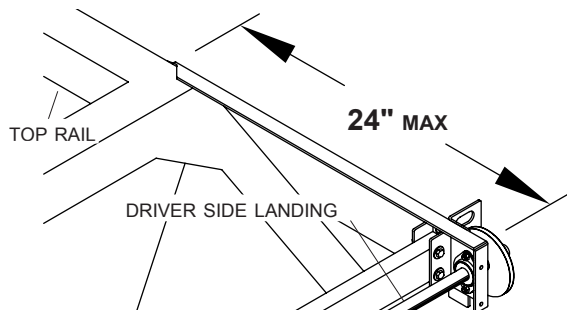


Item	Part #	Description
1.	1115143	Universal Landing Kit
2.	1117522	Universal Landing Kit - Narrow
3.	1108047	Universal Landing Brace
M.	1700400	Self-Tapping Screw - 3/8" x 1"



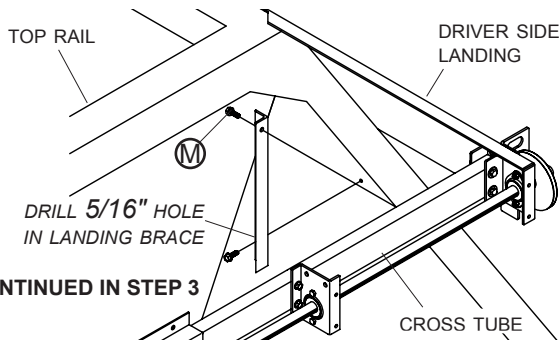
BELLY DUMP

STEP 1A: Clamp universal landing assembly on top rail. Landing must not extend more than 24" past top rail, 18" being standard.



NOTE: CHECK TARP LENGTH BEFORE PROCEEDING. Install universal landing so tarp will fit.

STEP 2A: Level landing assembly on box. Position landing braces against both cross tube and side of box. Mark and drill 5/16" holes and fasten with screws (M). Do not tighten.

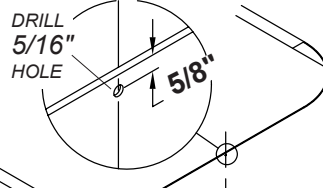


CONTINUED IN STEP 3

IMPORTANT: Landing must be properly supported at all times.

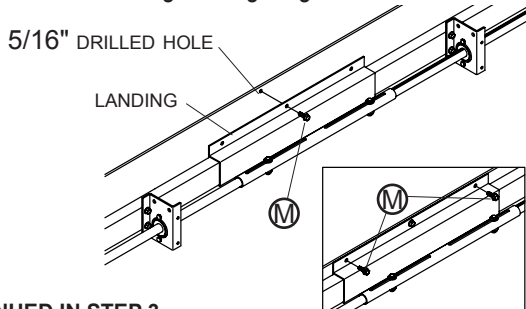
END DUMP

STEP 1B: Mark and drill 5/16" hole 5/8" below top edge of box, on front center line of box.



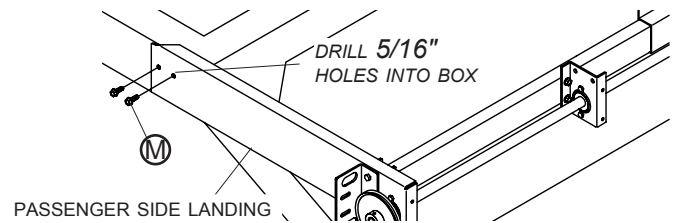
NOTE: If box is less than 86" wide, center landing between inside bearings.

STEP 2B: Align center hole on landing with drilled hole. Install screw (M) loosely. Level landing assembly on box and drill 5/16" holes, using landing as guide. Install screws (M).

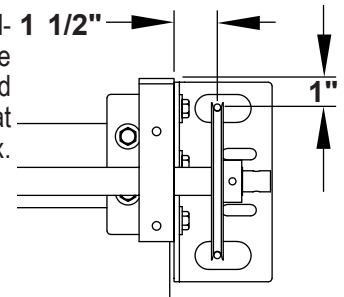


CONTINUED IN STEP 3

STEP 3: Drill 5/16" holes into box, using holes in side landings as guides. Fasten with screws (M).

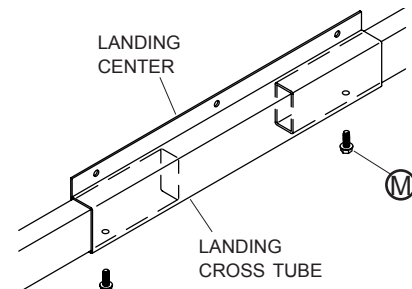


STEP 4: Adjust position of pulley so center of cable will be 1" below and 1 1/2" past top rail at widest point on box. Tighten screws (M).

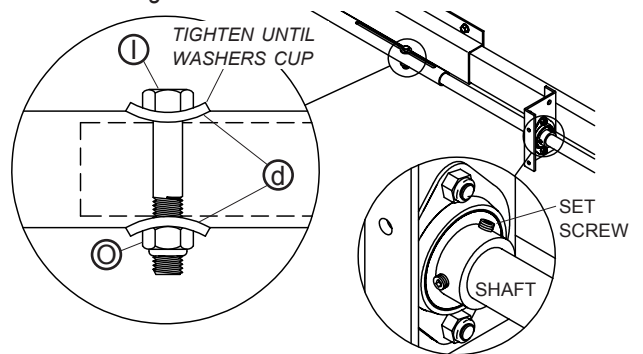


NOTE: Distance from center line of bearing to center line of pulley must not exceed 2 1/2". Keep in mind, trailer may vary in width from front to rear.

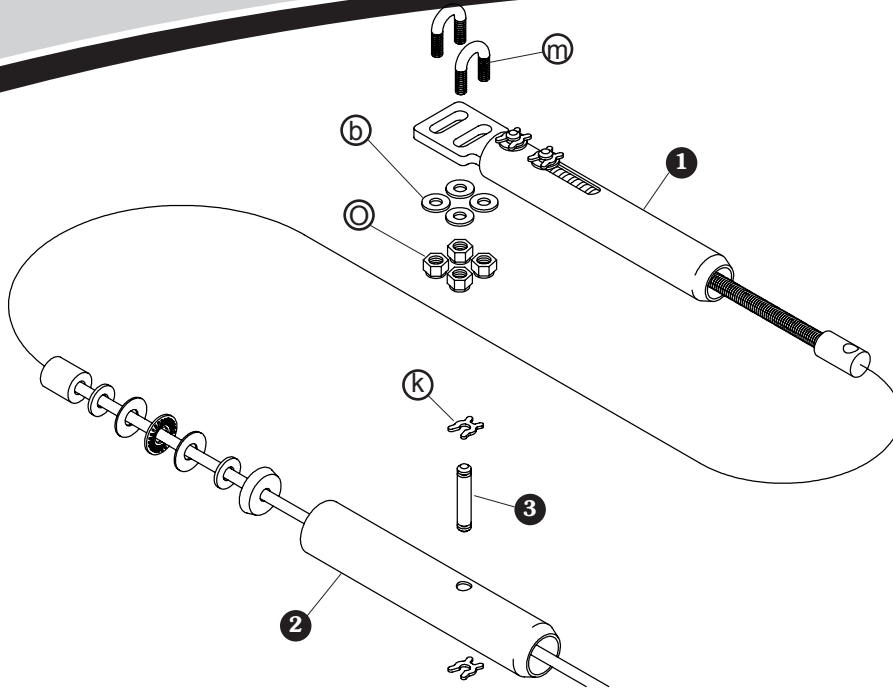
STEP 5: Using holes on bottom of landing center as guide, drill 5/16" holes into landing cross tubes. Secure cross tubes to landing center with screws (M).



STEP 6: Tighten screws (I) on head shaft slip coupling. Tighten bearing set screws.

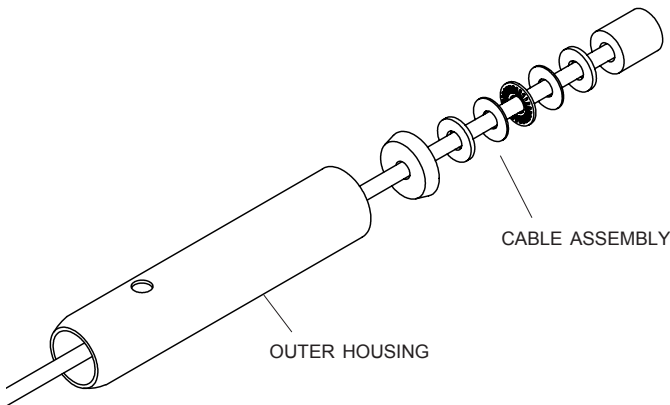


IMPORTANT: Properly support landing at all times.

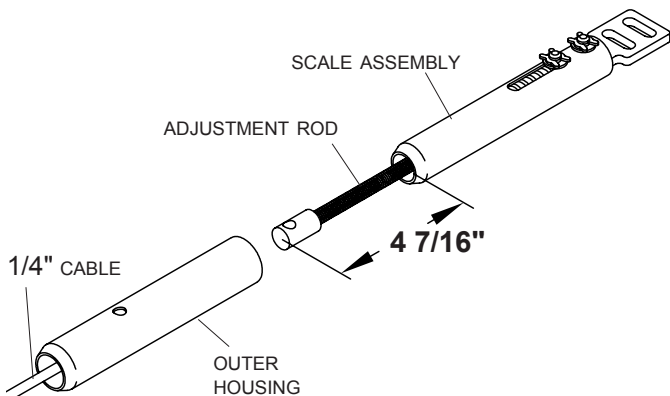


Item	Part #	Description
1.	1107945	Cable Tension Scale Assembly
2.	1107951	Tension Scale Outer Housing
3.	1701442	Headless Pin - 5/16"
O.	1700419	Nylon Lock Nut - 5/16"
b.	1700427	Flat Washer - 1/4"
k.	1701440	Crimp Ring Retainer - 5/16"
m.	1701470	U-Bolt - 5/16"

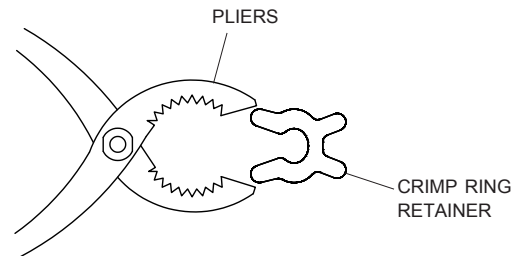
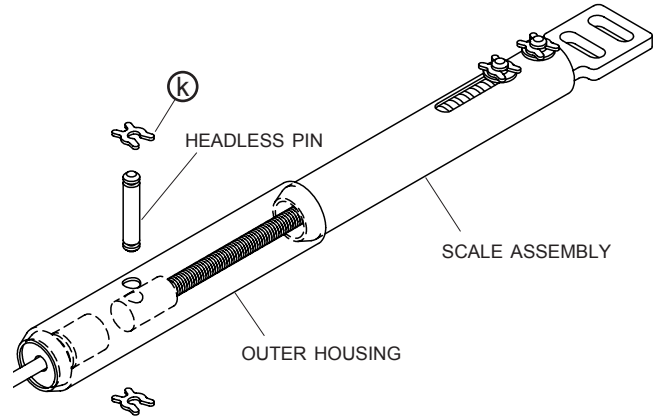
STEP 1: Slide cable assembly through outer housing.



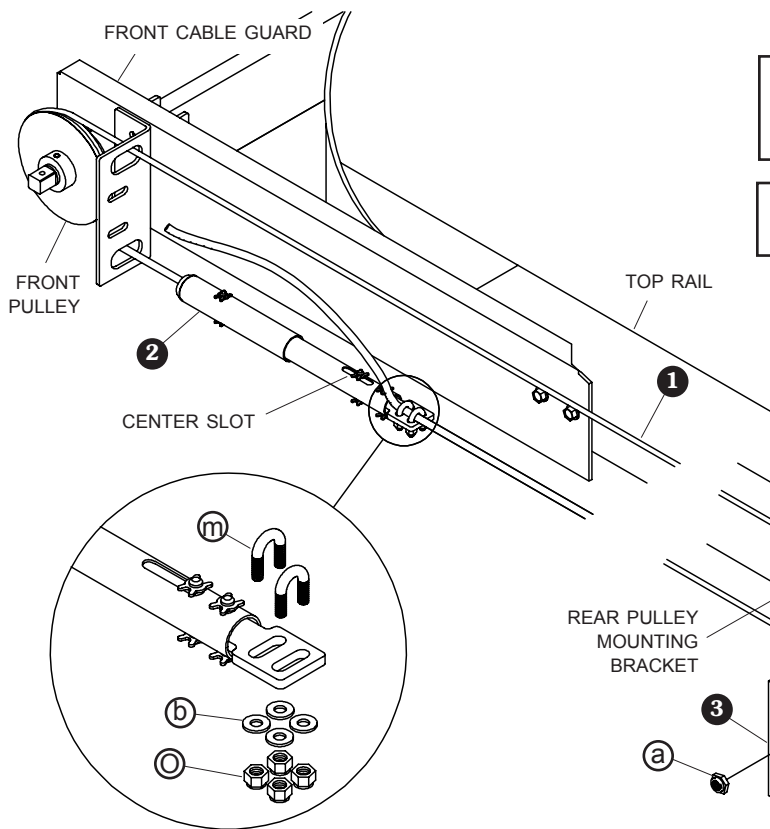
STEP 2: Extend adjustment rod 4 7/16" from edge of scale assembly, then slide scale assembly into outer housing.



STEP 3: Fasten outer housing to spring housing with headless pin. Secure pin with ring retainers. Crimp ring retainers (k) into grooves in pins with pliers.



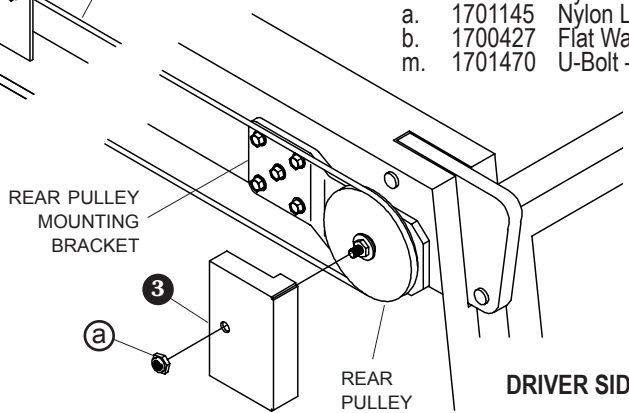
NOTE: Crimp ring retainers can only be used once.



IMPORTANT: Cables stretch considerably during first two weeks after being installed. Check cable tension daily. Maintain correct tension to prevent bow misalignment.

NOTE: DO NOT cut cable until tarp has been installed. Make sure both pulleys are operating correctly.

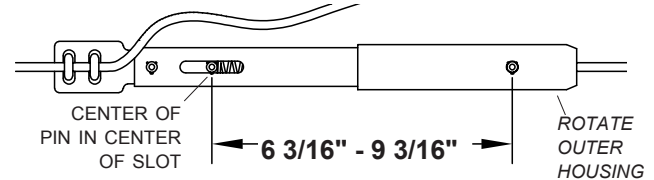
Item	Part #	Description
1.	1702568	Stainless Steel Cable - 1/4"
	1701464	Galvanized Cable - 1/4"
2.	1107990	Cable Tension Scale Kit
3.	1107971	Rear Pulley Guard
O.	1700419	Nylon Lock Nut - 5/16"
a.	1701145	Nylon Lock Nut - 1/2"
b.	1700427	Flat Washer - 1/4"
m.	1701470	U-Bolt - 5/16"



STEP 1: Wrap 1/4" cable around front and rear pulleys. Install U-bolts (m) over cable and into scale. Pull cable tight and secure with washers (b) and nuts (o).

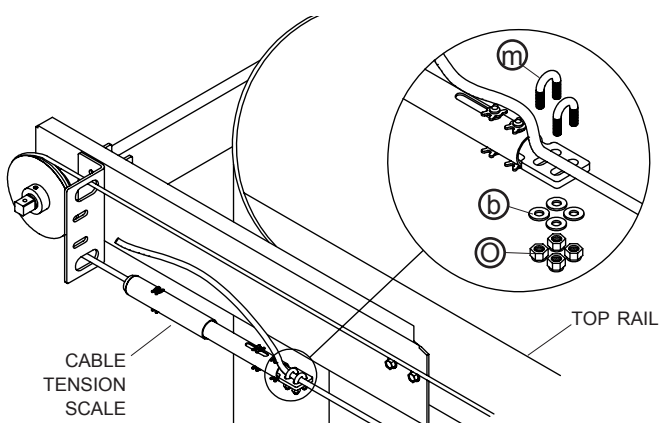
STEP 2: Rotate outer housing until center of pin is in center of slot.

IMPORTANT: Be sure cable is not spinning while adjusting tension.



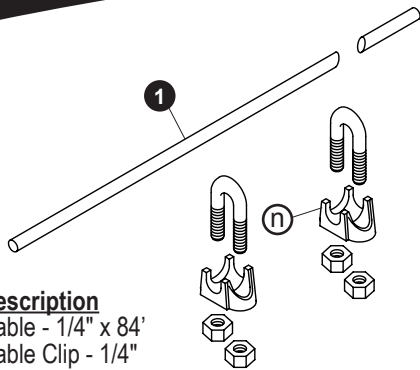
NOTE: If this dimension is under 6 5/8" on initial stretch, consider re-stretching cable to allow for more adjustment.

DRIVER SIDE



NOTE: Cable tension scales must face same direction on both driver and passenger sides. Cable tension scale must be placed on lower cable.

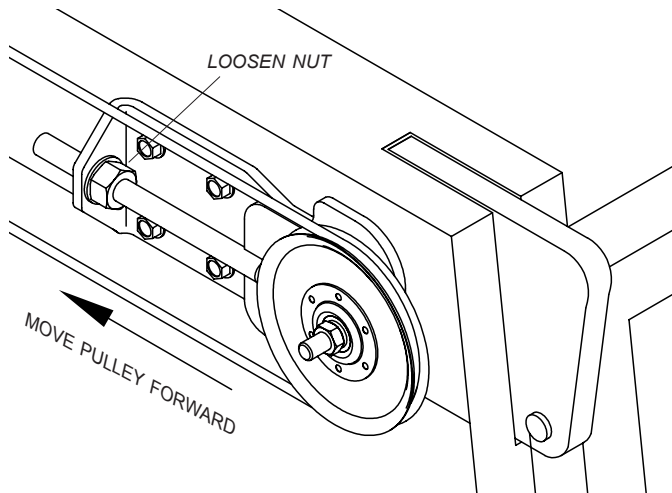
- To help prevent cable from spinning, adjust tension scale while tension scale is at front of trailer.
- Adjust cable tension by pulling cable through cable clamps and tightening clamps. Center section of cable may need support at this time.
- Check cable tension daily for first two weeks after installation. (Cables will stretch considerably during this time.)
- Keep cables tight at all times. Incorrect cable tension may cause bow misalignment and incorrectly hooked windguards.
- Do not cut cables until tarp and cable installation are complete and cable tension has been correctly adjusted.



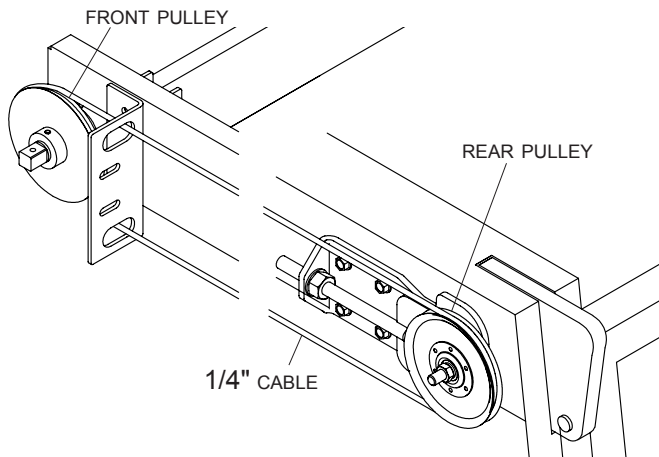
Item	Part #	Description
1.	1701464	Cable - 1/4" x 84'
n.	1701441	Cable Clip - 1/4"

NOTE: Do not cut cables until tarp installation is complete and cable tension has been correctly adjusted.

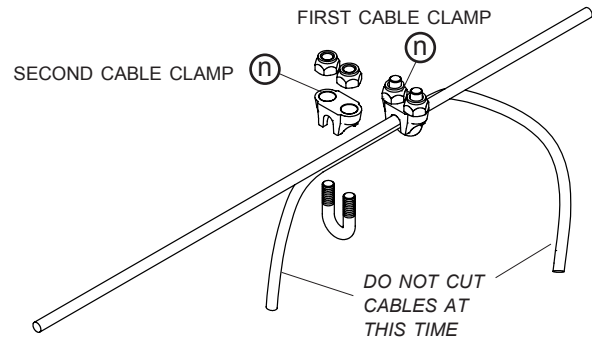
STEP 1: Loosen nut and adjust rear pulleys toward front of box.



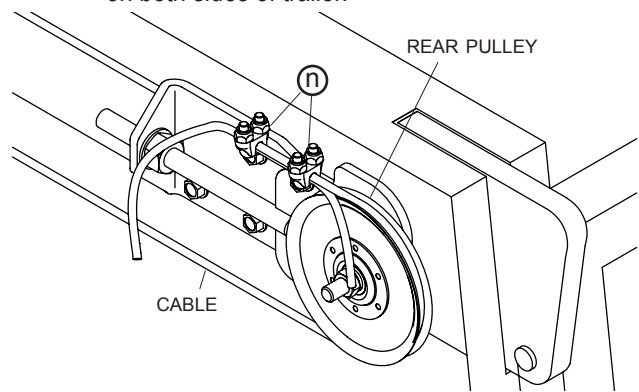
STEP 2: Wrap 1/4" cable around front and rear pulleys.



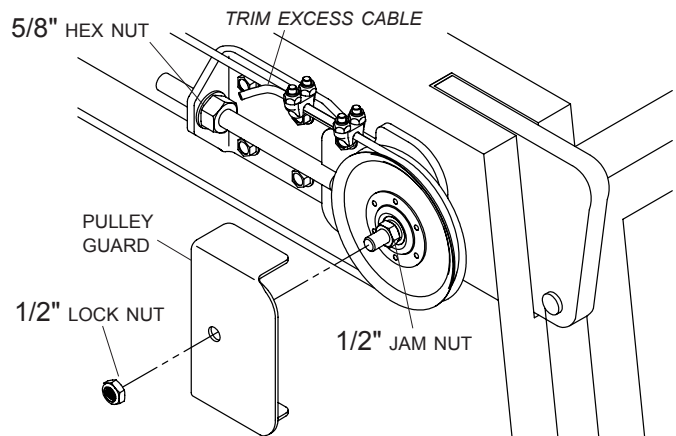
STEP 3: Fasten first cable clamp (n) onto upper cable, positioning cable clamp with U-bolt below cable as shown. Pull cable tight and secure clamp. Fasten second cable clamp (n) within 3" of first cable clamp.



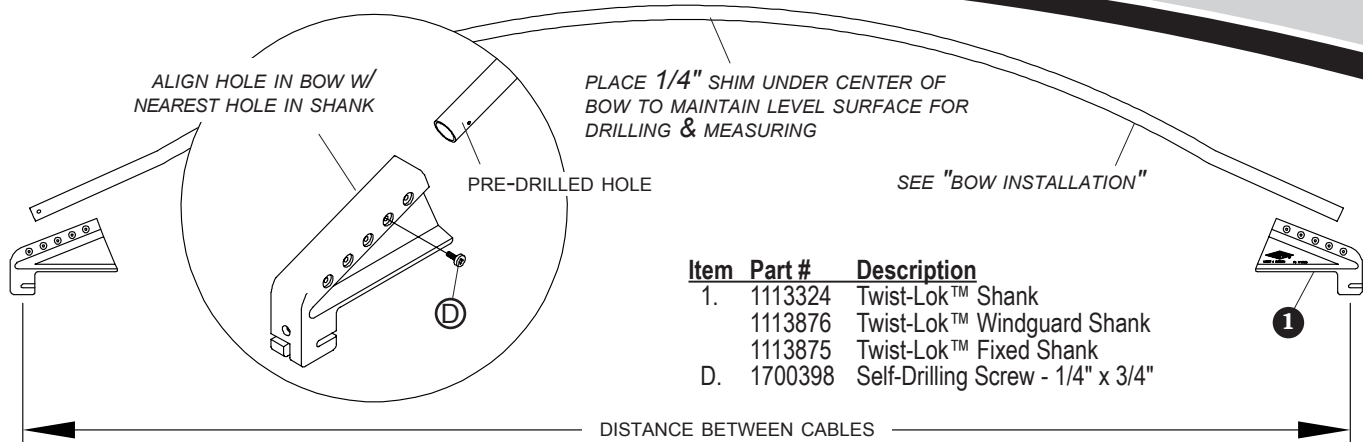
STEP 4: To verify cables on each side of trailer are in time with each other, slide cable clamps (n) against rear pulleys on both sides of trailer.



STEP 5: To tension cables, slide pulleys as far back as possible and tighten 1/2" jam nuts to secure in place. Adjust 5/8" hex nuts to tighten cables to desired tension. Trim excess cable on either side of cable clamps. Refasten pulley guard to adjustable pulley assembly with 1/2" nylon lock nuts.



- Check cable tension daily for first two weeks after installation (cable will stretch considerably during first two weeks).
- Keep cables tight at all times. Incorrect cable tension may cause bow misalignment and incorrectly hooked windguards.

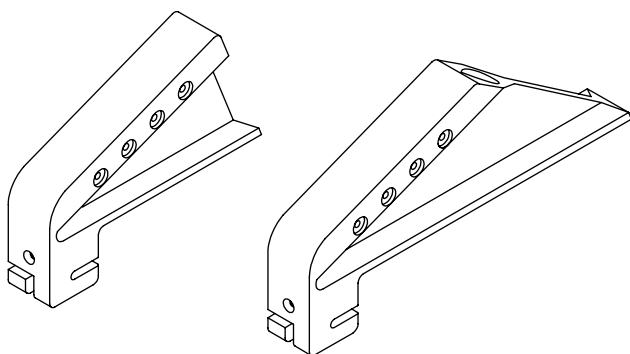


Item	Part #	Description
1.	1113324	Twist-Lok™ Shank
	1113876	Twist-Lok™ Windguard Shank
	1113875	Twist-Lok™ Fixed Shank
D.	1700398	Self-Drilling Screw - 1/4" x 3/4"

Shur-Trak II™ bow shanks. Our patented Twist-Lok™ shanks and Twist-Lok™ windguard shanks allow removal of bow without removing tarp or cable.

TWIST-LOK™ SHANK P/N 1113324

TWIST-LOK™ WINDGUARD SHANK P/N 1113876

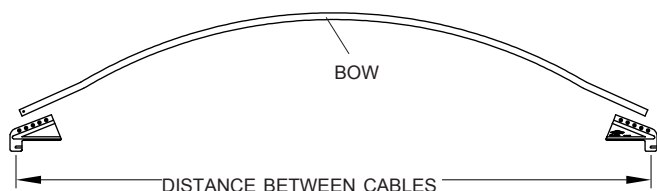


EXTENDED TWIST-LOK™ SHANK P/N 1113325

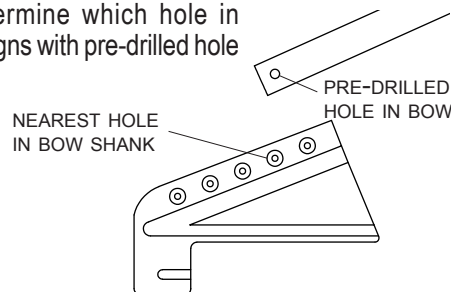
EXTENDED TWIST-LOK™ WINDGUARD SHANK P/N 1114712

STEP 1: Measure distance between cables at front and rear of box. Cables must be parallel to each other within 1/4".

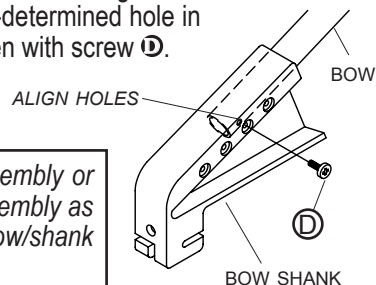
STEP 2: Place shanks on flat surface. Space distance between cables, positioning as shown.



STEP 3: Position bow between shanks and determine which hole in shank aligns with pre-drilled hole in bow.

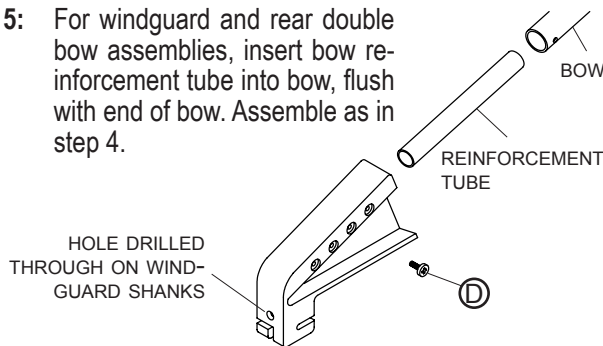


STEP 4: Insert bow into shank, align hole in bow with pre-determined hole in shank and fasten with screw **D**.

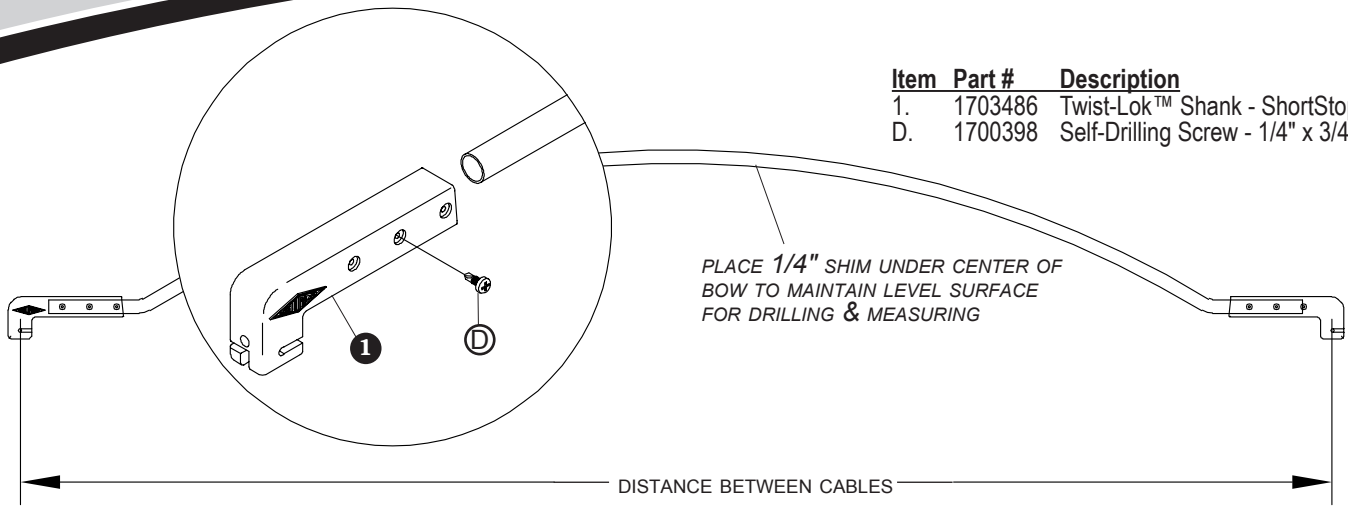


TIP: Use bow/shank assembly or outline of bow/shank assembly as pattern for remaining bow/shank assemblies.

STEP 5: For windguard and rear double bow assemblies, insert bow reinforcement tube into bow, flush with end of bow. Assemble as in step 4.



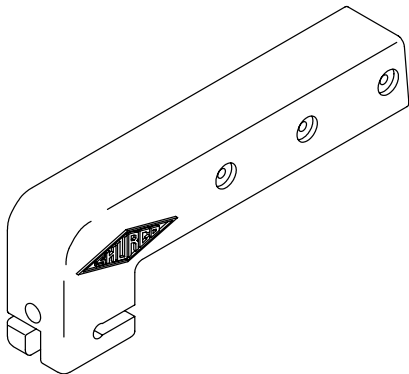
NOTE: Make sure all bows are centered between shanks for uniformity, balance and optimum tarp fit. One bow shank will have to be removed from each bow when bows are installed on cables.



Item	Part #	Description
1.	1703486	Twist-Lok™ Shank - ShortStop™
D.	1700398	Self-Drilling Screw - 1/4" x 3/4"

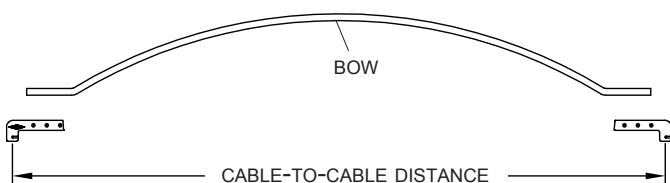
Shur-Trak II™ ShortStop™ bow shanks. Twist-Lok™ shanks allow removal of bows without removing tarp or cable.

TWIST-LOK™ SHANK P/N 1703486



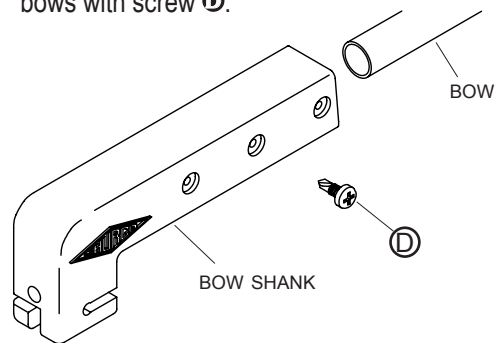
STEP 1: Measure distance between cables at front and rear of box. Cables must be parallel to each other within 1/4".

STEP 2: Place shanks on flat surface. Space distance between cables, positioning as shown.



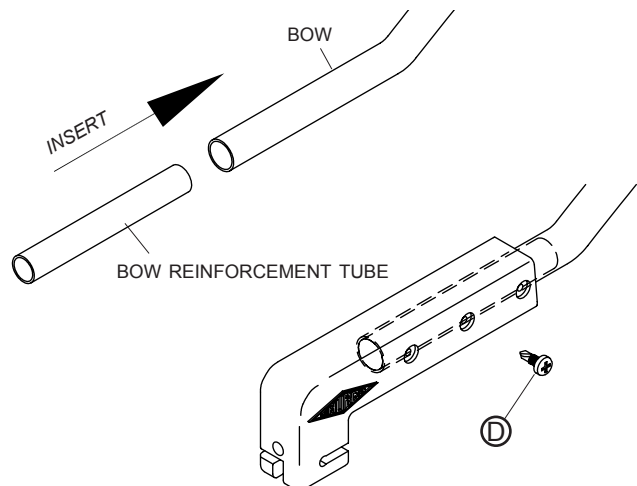
NOTE: Make sure all bows are centered between shanks for uniformity, balance and optimum tarp fit. One bow shank will have to be removed from each bow when bows are installed on cables.

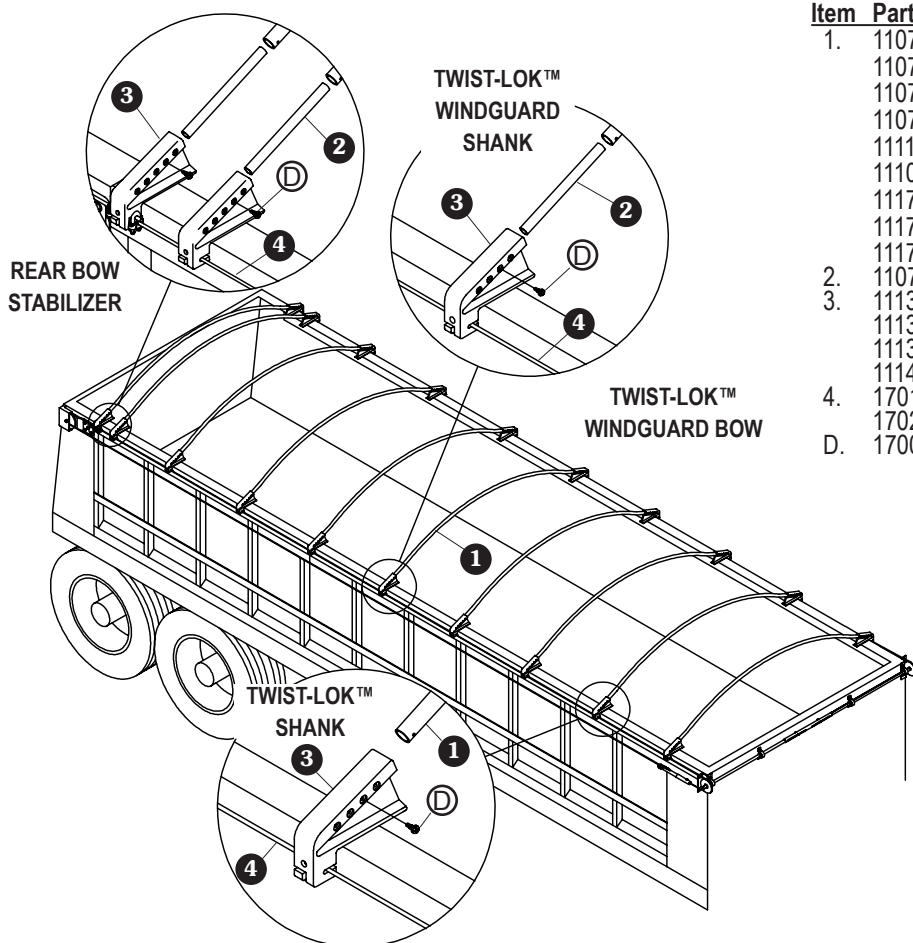
STEP 3: Center bows between shanks and fasten shanks to bows with screw **D**.



TIP: Use bow-and-shank assembly or outline of bow-and-shank assembly as pattern for remaining assemblies.

STEP 4: For windguard and rear double bow assemblies, insert bow reinforcement tube into bows, flush with end of bows, and assemble as in step 3.



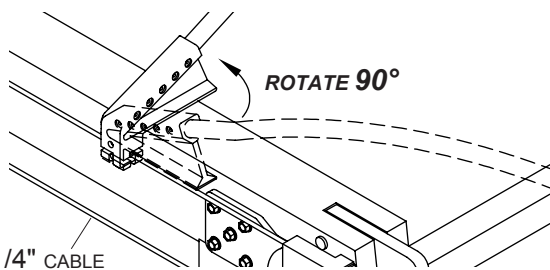


Item	Part #	Description
1.	1107985	Bow - 12" Rise - 90" to 96"
	1107986	Bow - 12" Rise - 96" to 102"
	1107987	Bow - 16" Rise - 90" to 96"
	1107988	Bow - 16" Rise - 96" to 102"
	1111131	Bow - 16" Rise - 102" to 104"
	1110731	Bow - 12" Rise - 102" to 104"
	1117524	Bow - 12" Rise - 72" to 78"
	1117525	Bow - 12" Rise - 78" to 84"
	1117541	Bow - 12" Rise - 84" to 90"
2.	1107973	Bow Reinforcement Tube
3.	1113876	Twist-Lok™ Windguard Shank
	1113324	Twist-Lok™ Shank
	1113325	Twist-Lok™ Extended Intermediate Shank
	1114712	Twist-Lok™ Extended Windguard Shank
4.	1701464	Galvanized Cable - 1/4"
	1702568	Stainless Steel Cable - 1/4"
D.	1700398	Self-Drilling Screw - 1/4" x 3/4"

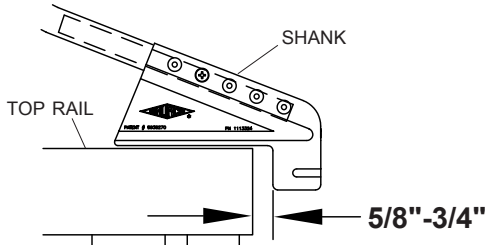
NOTE: Install windguard bows every 10' to 12' on trailer.

TWIST-LOK™ BOW

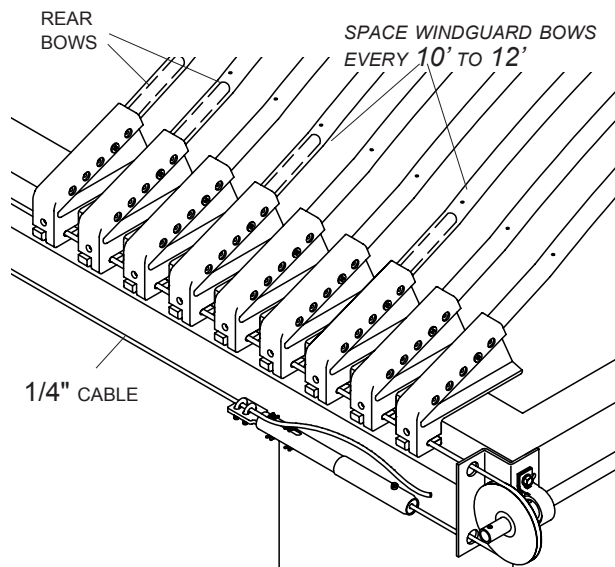
STEP 1: Position first bow assembly at front of box with shank groove over driver side cable. Rotate shank 90° to secure shank to cable.



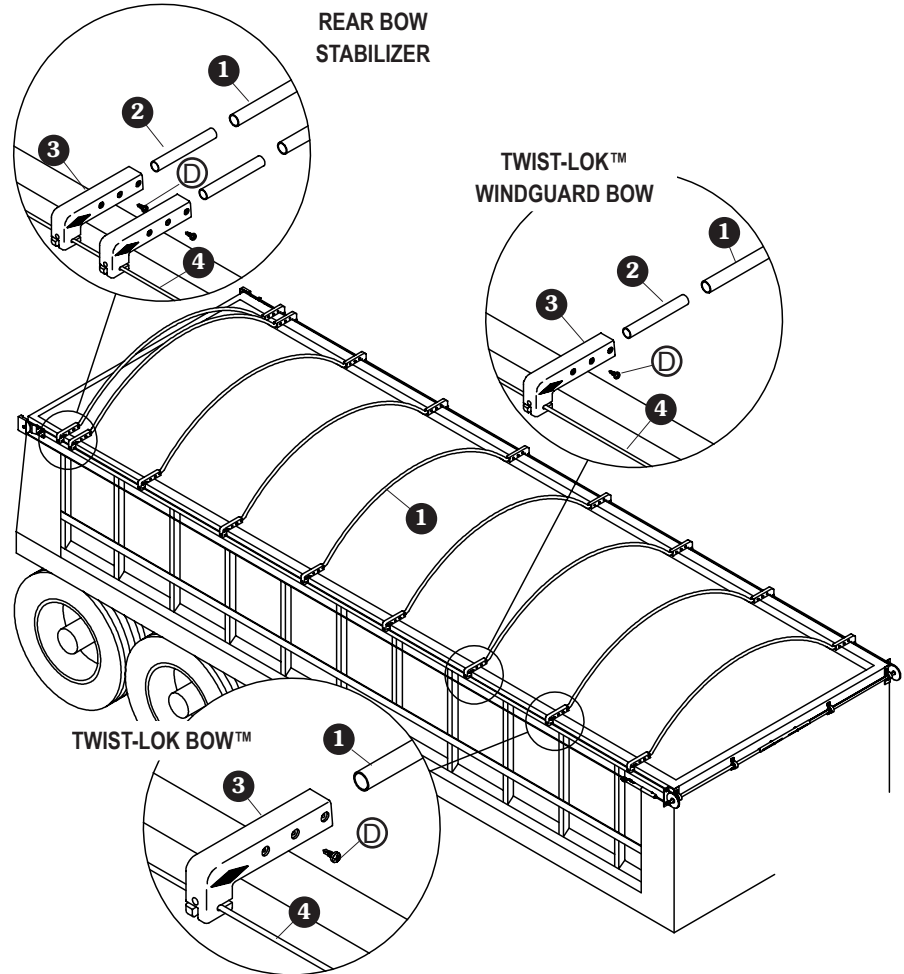
STEP 2: Remove opposite bow shank and twist shank onto cable. Refasten shank to bow with screw.



STEP 3: Install remaining bows as shown in steps 1 and 2, working from front to rear of box. Evenly space windguard bows with reinforcement tubes along length of box. Install two bows with reinforcement tubes at rear of box.

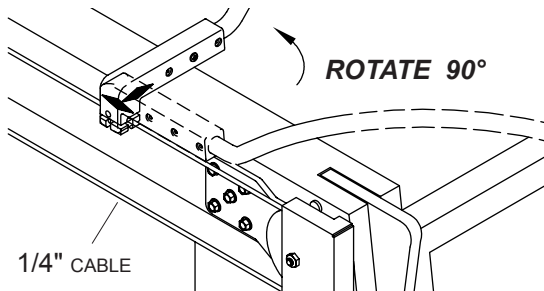


Item	Part #	Description
1.	1117540	Bow Kit - 72" to 78" - Flat
	1117534	Bow Kit - 79" to 85" - Flat
	1116089	Bow Kit - 92" - Flat
	1116093	Bow Kit - 96" - Flat
	1116097	Bow Kit - 102" - Flat
	1117536	Bow Kit - 72" to 78" - 6" Rise
	1117530	Bow Kit - 79" to 85" - 6" Rise
	1116086	Bow Kit - 92" - 6" Rise
	1116090	Bow Kit - 96" - 6" Rise
	1116094	Bow Kit - 102" - 6" Rise
	1117538	Bow Kit - 72" to 78" - 12" Rise
	1117532	Bow Kit - 79" to 85" - 12" Rise
	1116087	Bow Kit - 92" - 12" Rise
	1116091	Bow Kit - 96" - 12" Rise
	1116095	Bow Kit - 102" - 12" Rise
	1116088	Bow Kit - 92" - 18" Rise
	1116092	Bow Kit - 96" - 18" Rise
	1116096	Bow Kit - 102" - 18" Rise
2.	1115490	Bow Reinforcement Tube
3.	1703486	Twist-Lok™ ShortStop™ Bow Shank
4.	*	Galvanized Cable
	*	Stainless Steel Cable
D.	1700398	Self-Drilling Screw - 1/4" x 3/4"

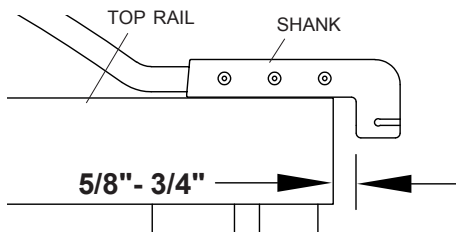


NOTE: Install windguard bows every 10' to 12' on trailer.

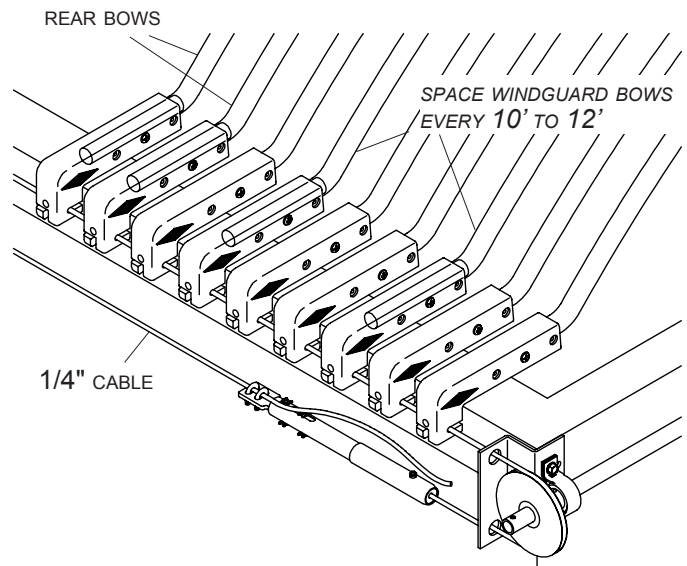
STEP 1: Position first bow assembly at front of box with cable over groove in bow shank. Rotate shank 90° to secure shank to cable.







STEP 2: Remove opposite bow shank and twist shank onto cable. Refasten shank to bow with screw.

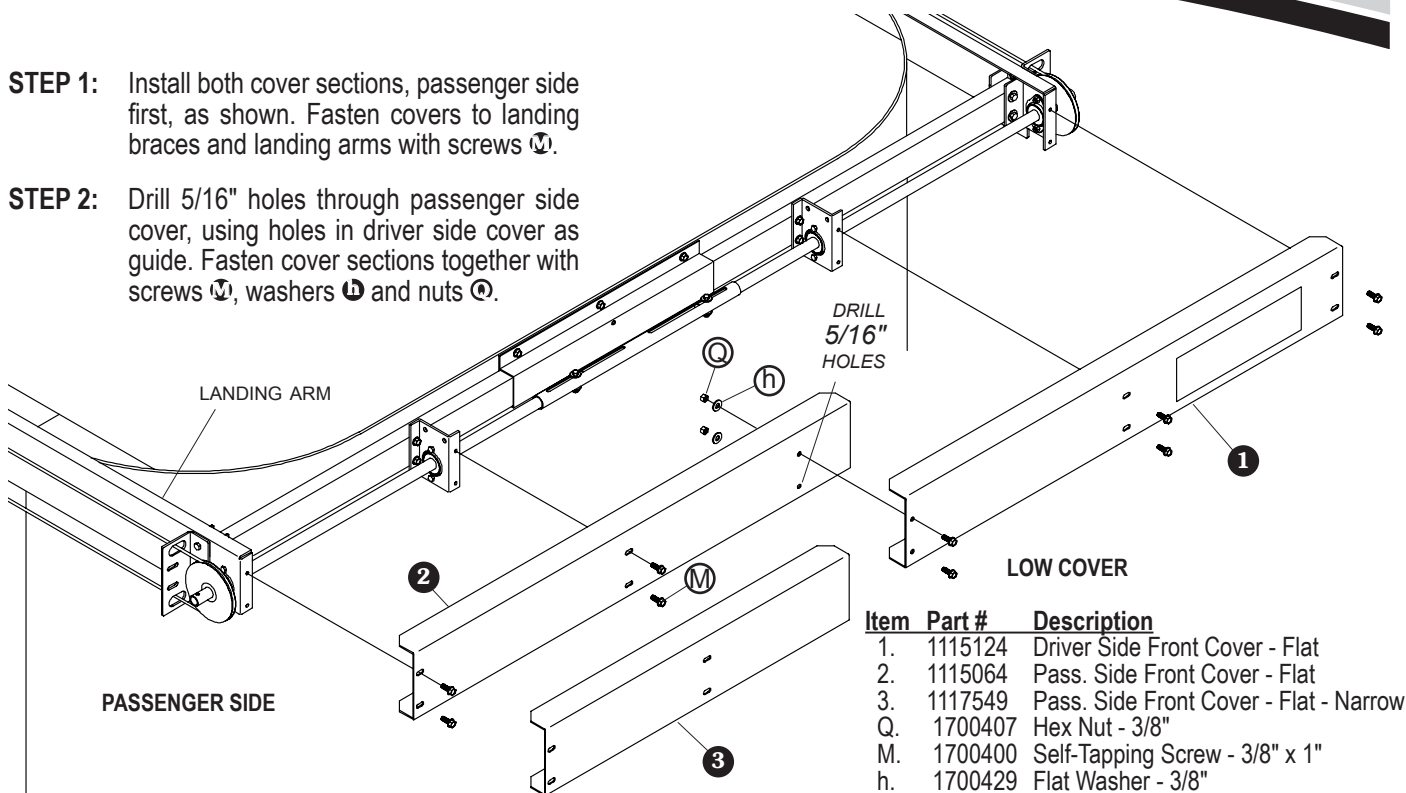


STEP 3: Install remaining bows as shown in steps 1 and 2, working from front to rear of box. Evenly space windguard bows with reinforcement tubes along length of box. Install two bows with reinforcement tubes at rear of box.







STEP 1: Install both cover sections, passenger side first, as shown. Fasten covers to landing braces and landing arms with screws .




STEP 2: Drill 5/16" holes through passenger side cover, using holes in driver side cover as guide. Fasten cover sections together with screws , washers  and nuts .

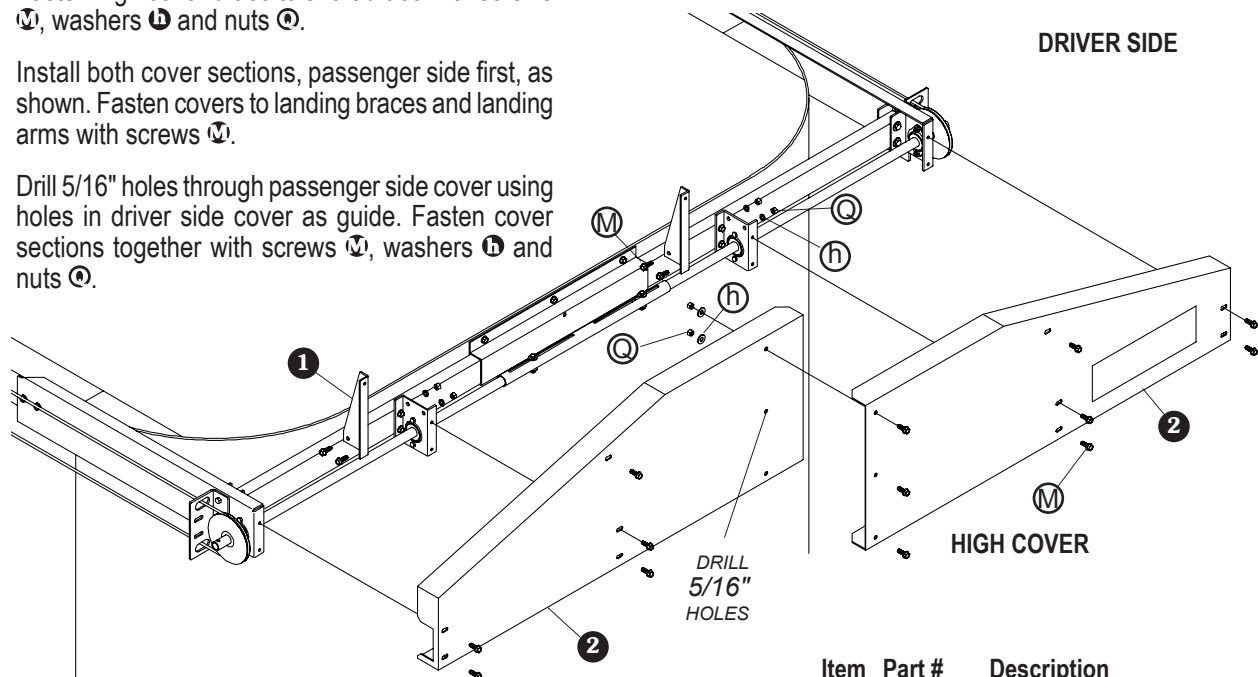


Item	Part #	Description
1.	1115124	Driver Side Front Cover - Flat
2.	1115064	Pass. Side Front Cover - Flat
3.	1117549	Pass. Side Front Cover - Flat - Narrow
Q.	1700407	Hex Nut - 3/8"
M.	1700400	Self-Tapping Screw - 3/8" x 1"
h.	1700429	Flat Washer - 3/8"

STEP 1: Fasten high cover brace to short brace with screws , washers  and nuts .

STEP 2: Install both cover sections, passenger side first, as shown. Fasten covers to landing braces and landing arms with screws .

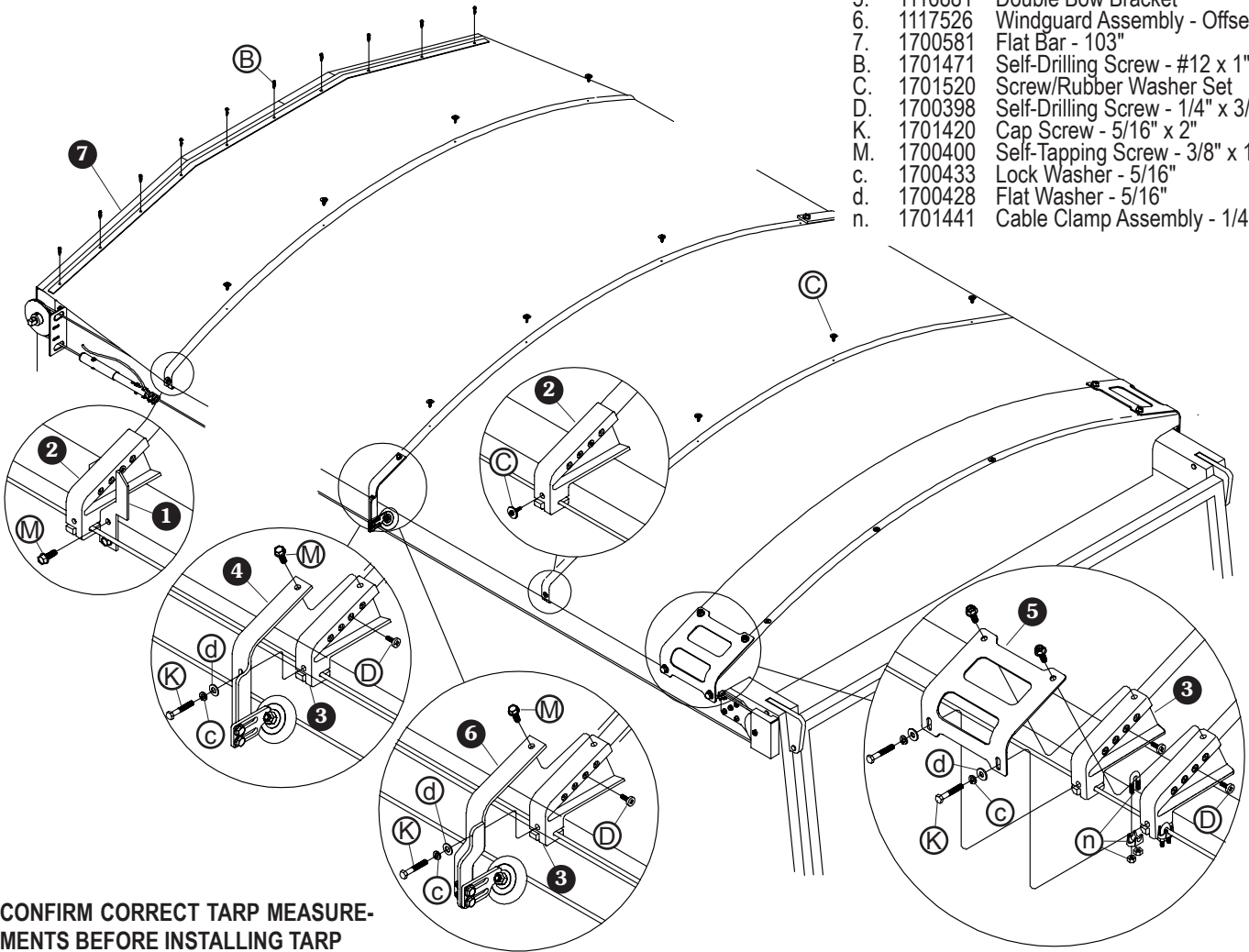
STEP 3: Drill 5/16" holes through passenger side cover using holes in driver side cover as guide. Fasten cover sections together with screws , washers  and nuts .



Item	Part #	Description
1.	1115059	High Cover Brace
2.	1117679	Front Cover Set - High Rise
Q.	1700407	Hex Nut - 3/8"
M.	1700400	Self-Tapping Screw - 3/8" x 1"
h.	1700429	Flat Washer - 3/8"

NOTE: Adjustable drive. Install front covers on adjustable drive in same manner as on universal landing, using brackets shown on page 3. Covers are designed to fit universal landing brackets. Drill 5/16" holes in covers to fit adjustable drive brackets.

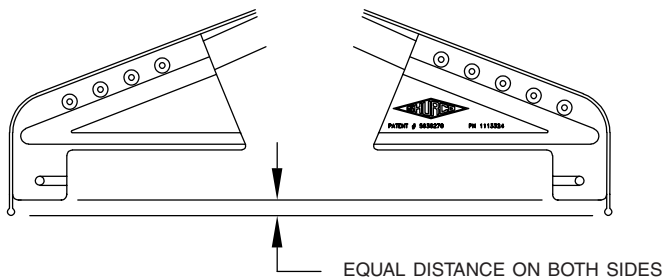
Item	Part #	Description
1.	1109151	Bow Stop
2.	1113324	Twist-Lok™ Bow Shank
3.	1113876	Twist-Lok™ Windguard Bow Shank
4.	1115227	Windguard Assembly
5.	1116881	Double Bow Bracket
6.	1117526	Windguard Assembly - Offset
7.	1700581	Flat Bar - 103"
B.	1701471	Self-Drilling Screw - #12 x 1"
C.	1701520	Screw/Rubber Washer Set
D.	1700398	Self-Drilling Screw - 1/4" x 3/4"
K.	1701420	Cap Screw - 5/16" x 2"
M.	1700400	Self-Tapping Screw - 3/8" x 1"
c.	1700433	Lock Washer - 5/16"
d.	1700428	Flat Washer - 5/16"
n.	1701441	Cable Clamp Assembly - 1/4"



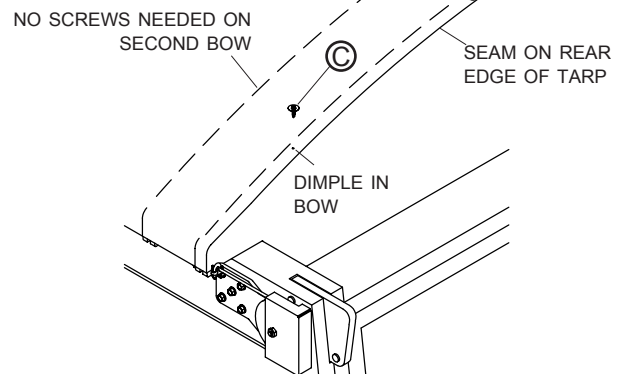
CONFIRM CORRECT TARP MEASUREMENTS BEFORE INSTALLING TARP

STEP 1: Space bows across length of box and unroll tarp over bows.

STEP 2: Center rear of tarp over rear bow, aligning edge of tarp an equal distance below lower edge of bow shanks.

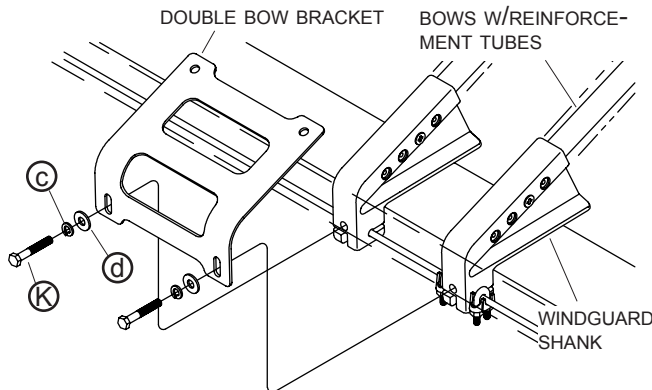


STEP 3: Rear double bow. Align seam on rear edge of tarp over rear bow. Secure tarp to bow at dimples in bows with screw/rubber washer set C.

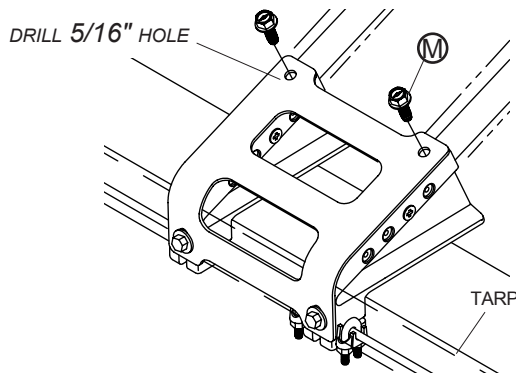


NOTE: Windguard assemblies and double bow brackets must be mounted to bows with reinforcement tubes and windguard shanks.

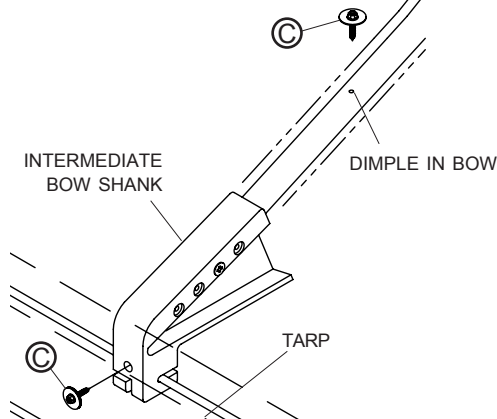
STEP 4A: Align double bow brackets on windguard shanks. Install flat washers (U), lock washers (C) and cap screws (K).



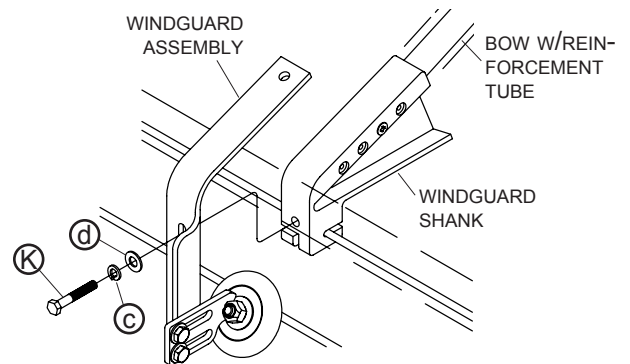
STEP 4B: Drill 5/16" hole through tarp, bow shank, bow tube and reinforcement tube. Fasten tarp and rear bow assemblies to bow and shank with screw (M).



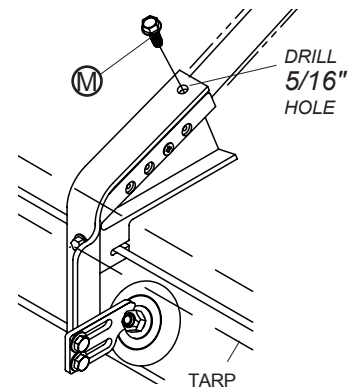
STEP 5: **Intermediate bows.** Align weld seam on tarp with intermediate bow. Center tarp over bow. Fasten tarp to bow with screw/rubber washer sets (C) at dimples in bow and into brass insert in intermediate bow shank. Repeat at remaining intermediate bows.



STEP 6A: **Windguard bows.** Align weld seam with bow. Center tarp over bow. Fasten tarp to bow with screw/rubber washer sets (C) at bow dimples. Align windguard assembly on windguard shanks. Fasten windguard assembly to bow shank with screws (K), lock washers (C) and flat washers (U).

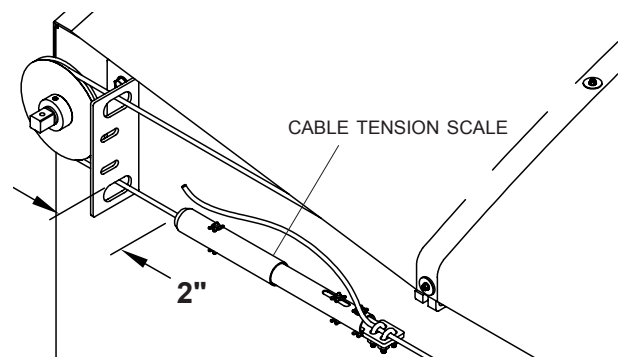


STEP 6B: Drill 5/16" hole through tarp, shank, bow tube and reinforcement tube. Fasten tarp and windguard bow assemblies to bow and shank with screw (M). Repeat at remaining windguard bows.

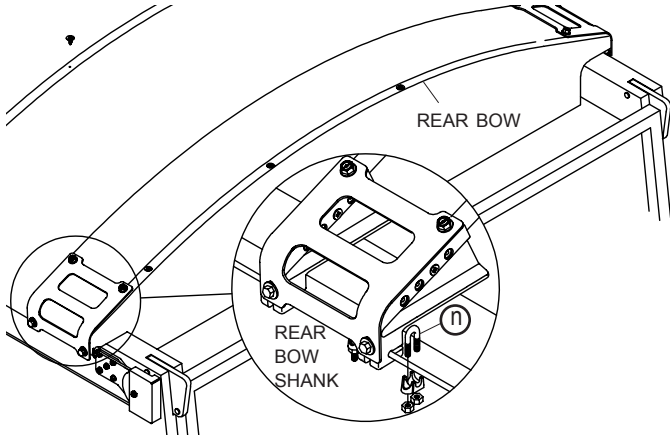


NOTE: Install offset arm (P/N 1117526) as shown above.

STEP 7: After tarp is secured to bows, check cable tension scales. Position scales 2" from cable guard on both sides of box.

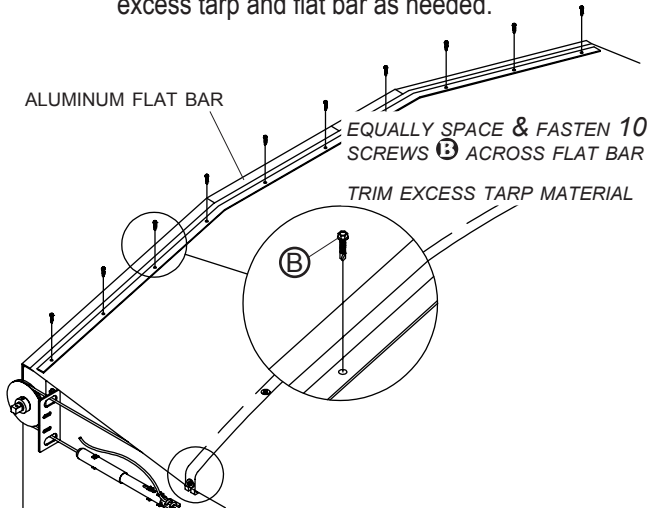


STEP 8: Position rear bow at rear of box where tarp will end while fully closed. Fasten clamps ① on both sides of rear bow shank. Repeat on opposite side of box.



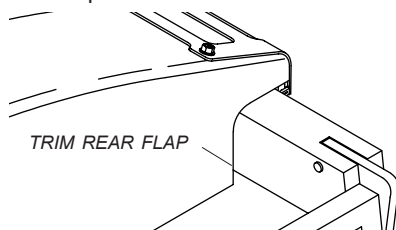
NOTE: Make sure both sides of tarp are equal distance from rear end of box.

STEP 9: With tarp fully closed, center tarp and aluminum flat bar over front cover. Keeping tarp tight, fasten tarp to front cover with flat bar and self-drilling screws ③. Start at center and continue toward both ends. Trim excess tarp and flat bar as needed.

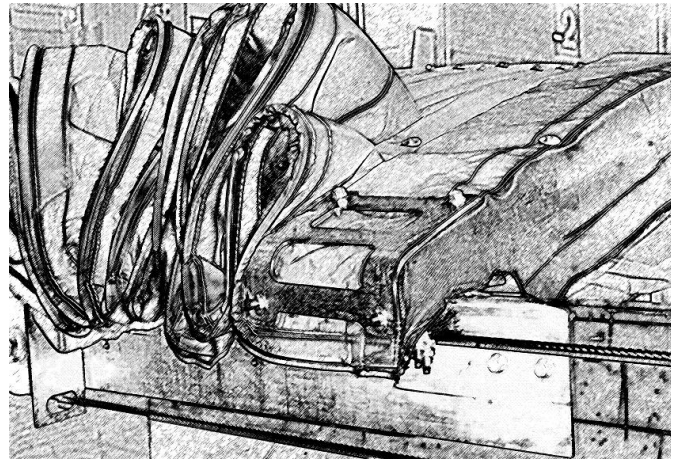


NOTE: Form flat bar to fit when fastening tarp to high-rise cover.

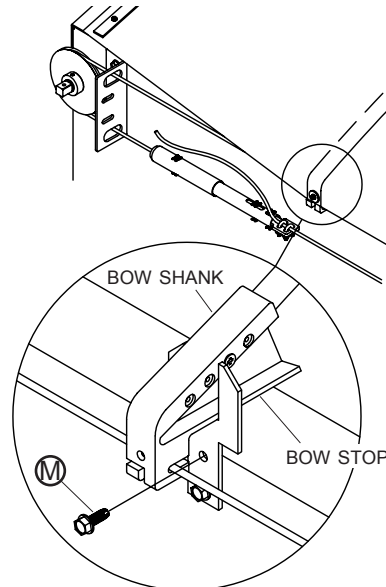
STEP 10: Trim rear flap as needed.



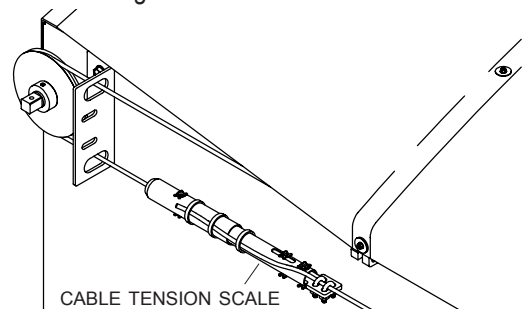
STEP 11: Operate system. During first operations, lift up on sections of tarp between bows to help train tarp to lift while opening.

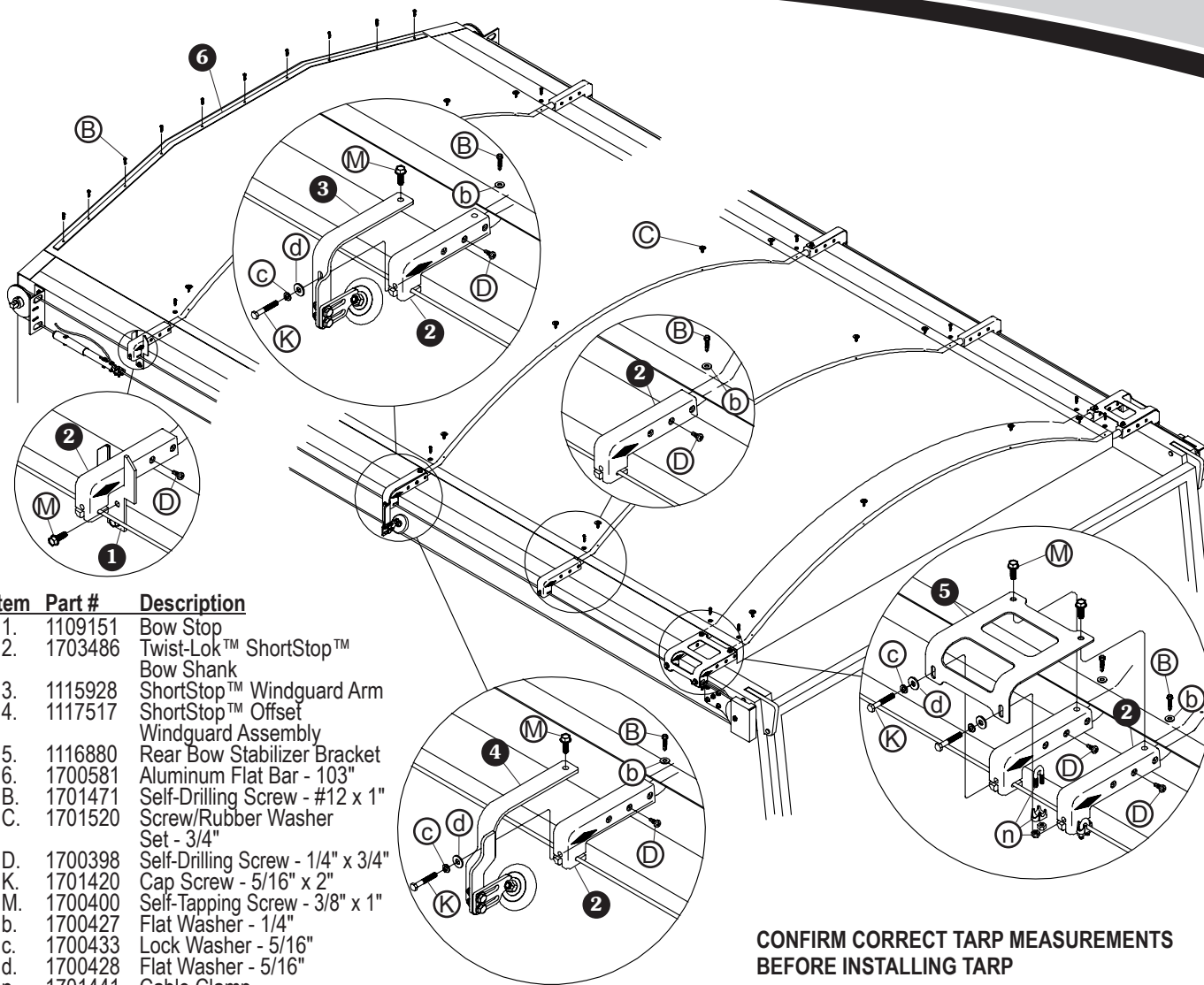


STEP 12: Bow stops (optional). Align bow stops with shanks on first bow at front of box. Mark and drill 5/16" holes and fasten with screws ④.



STEP 13: Check cable tension scale for correct tension (see step 2 on page 7). Cut excess cable, leaving 10" of cable. Secure remaining 10" of cable to cable tension scale housing.



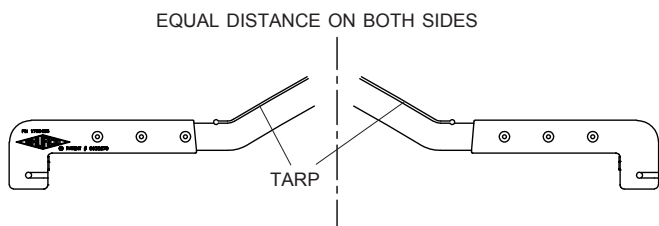


Item	Part #	Description
1.	1109151	Bow Stop
2.	1703486	Twist-Lok™ ShortStop™ Bow Shank
3.	1115928	ShortStop™ Windguard Arm
4.	1117517	ShortStop™ Offset Windguard Assembly
5.	1116880	Rear Bow Stabilizer Bracket
6.	1700581	Aluminum Flat Bar - 103"
B.	1701471	Self-Drilling Screw - #12 x 1"
C.	1701520	Screw/Rubber Washer Set - 3/4"
D.	1700398	Self-Drilling Screw - 1/4" x 3/4"
K.	1701420	Cap Screw - 5/16" x 2"
M.	1700400	Self-Tapping Screw - 3/8" x 1"
b.	1700427	Flat Washer - 1/4"
c.	1700433	Lock Washer - 5/16"
d.	1700428	Flat Washer - 5/16"
n.	1701441	Cable Clamp

CONFIRM CORRECT TARP MEASUREMENTS BEFORE INSTALLING TARP

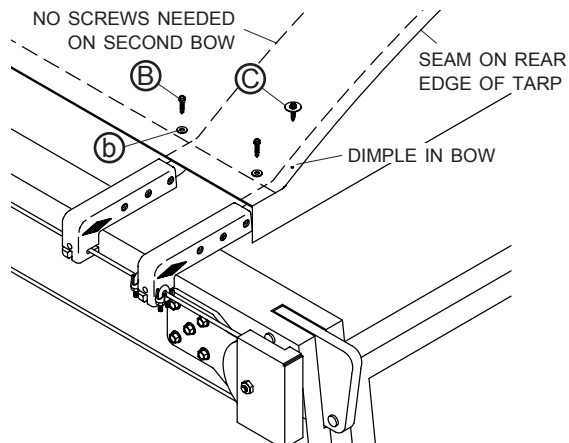
STEP 1: Space bows across length of box and unroll tarp over bows.

STEP 2: Center rear of tarp over rear bow.



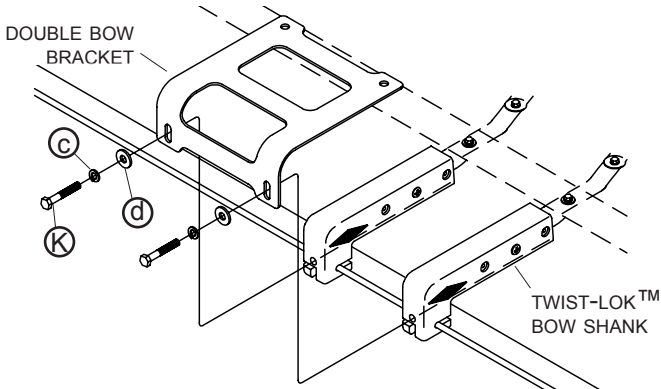
NOTE: Tarp may end either on bow (as shown) or on top of bow shank, depending on top rail width and tarp width.

STEP 3: Rear double bow. Align seam on rear edge of tarp over rear bow. Secure tarp to bow at dimples in bows with screw/rubber washer set (C). Fasten tarp to bow through hem in tarp with screw (B) and washer (b).

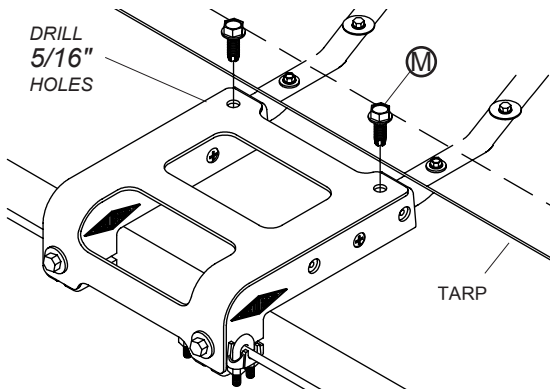


NOTE: Windguard assemblies and double bow brackets must be mounted to bows with reinforcement tubes.

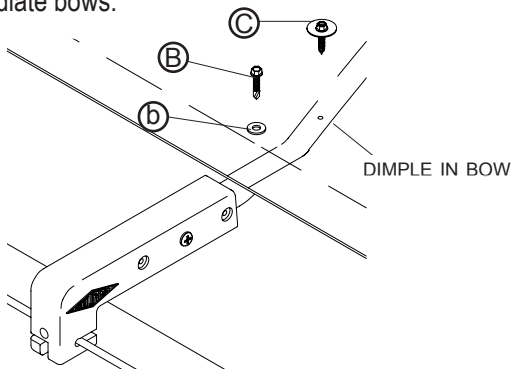
STEP 4A: Align double bow brackets on bow shanks at rear of box. Install flat washers (U), lock washers (C) and cap screws (K).



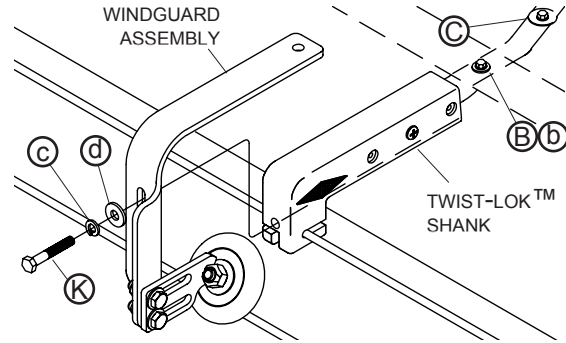
STEP 4B: Drill 5/16" hole through shank, bow tube and reinforcement tube. Fasten rear bow assemblies to bow and shank with screw (V).



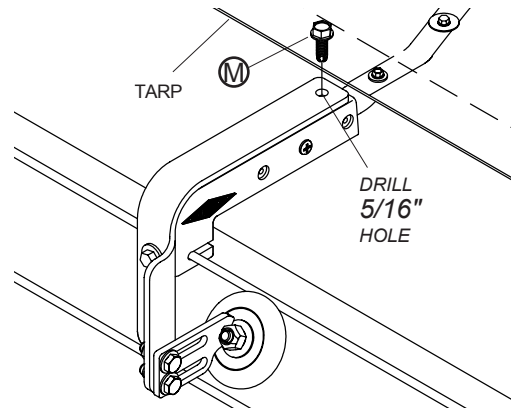
STEP 5: Intermediate bows. Align weld seam on tarp with intermediate bow. Center tarp over bow. Fasten tarp to bow with screw/rubber washer sets (C) at dimples in bow. Fasten tarp to bow through hem in tarp with screw (B) and washer (b). Repeat at remaining intermediate bows.



STEP 6A: Windguard bows. Align weld seam with bow. Center tarp over bow. Fasten tarp to bow with screw/rubber washer sets (C) at bow dimples. Fasten tarp to bow through hem in tarp with screw (B) and washer (b). Align windguard assembly on windguard shanks. Fasten windguard assembly to bow shank with screws (K), lock washers (C) and flat washers (d).

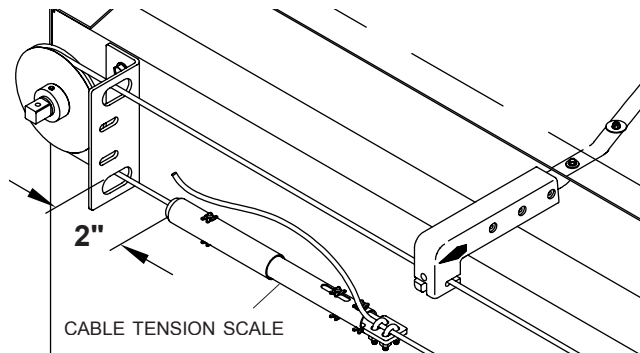


STEP 6B: Drill 5/16" hole through shank, bow tube and reinforcement tube. Fasten tarp and windguard bow assemblies to bow and shank with screw (V). Repeat at remaining windguard bows.

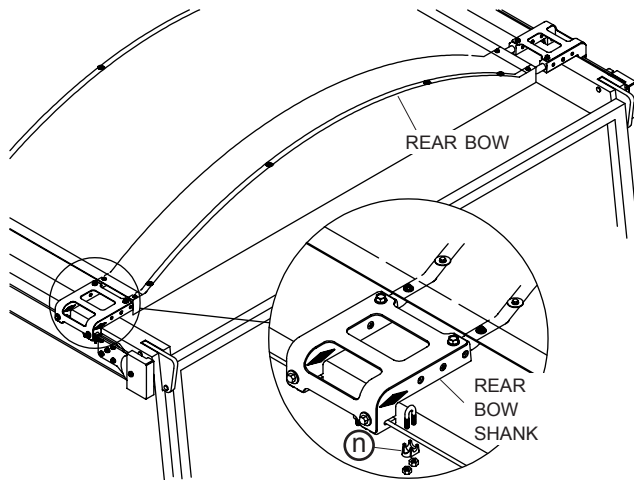


NOTE: Install offset arm (P/N 1117526) as shown above.

STEP 7: After tarp is secured to bows, check cable tension scales. Position scales 2" from cable guard on both sides of box.

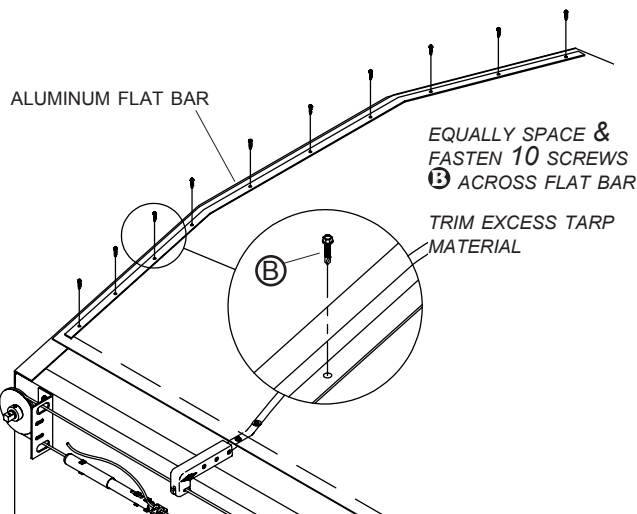


STEP 8: Position rear bow at rear of box where tarp will end while fully closed. Fasten clamps **(D)** on both sides of rear bow shank. Repeat on opposite side of box.



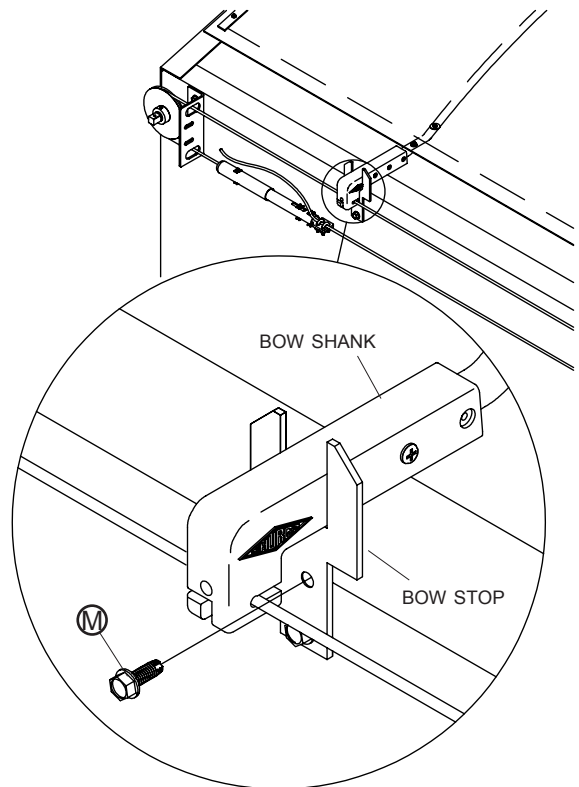
NOTE: Make sure both sides of tarp are equal distance from rear end of box.

STEP 9: With tarp fully closed, center tarp and aluminum flat bar over front cover. Keeping tarp tight, fasten tarp to front cover with flat bar and self-drilling screws **(B)**. Start at center and continue toward both ends. Trim excess tarp and flat bar as needed.

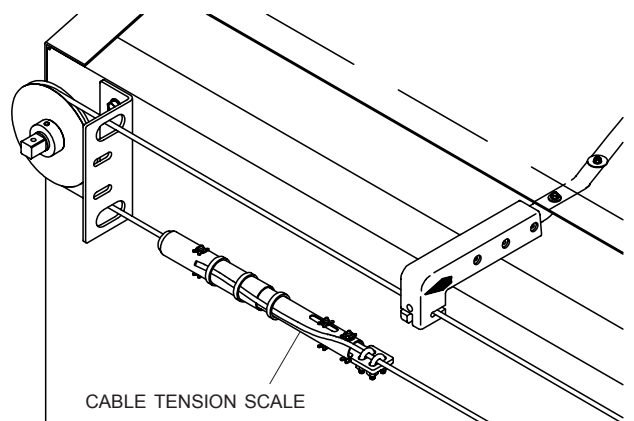


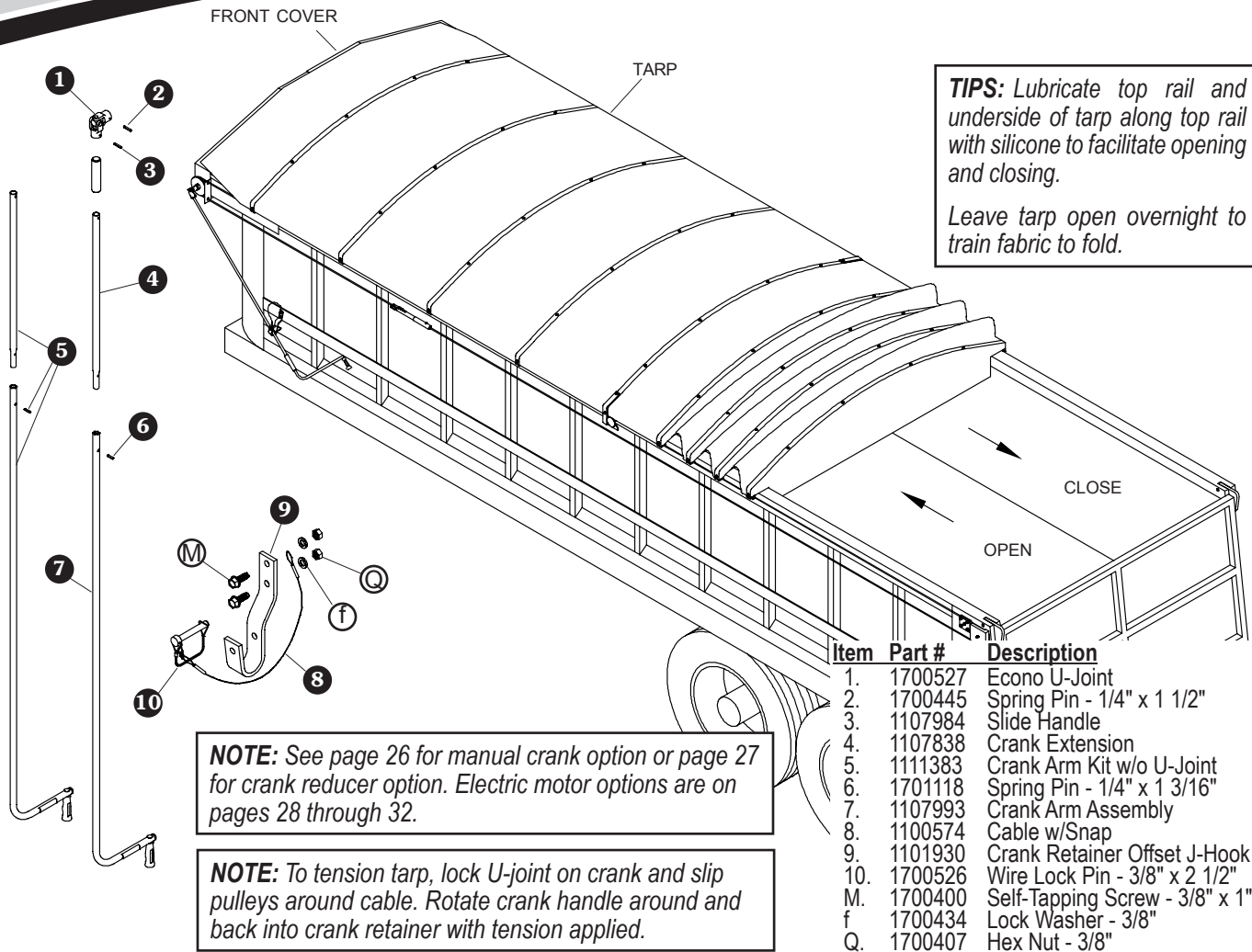
NOTE: Form flat bar to fit when fastening tarp to high-rise cover.

STEP 10: Bow stops (optional). Align bow stops with shanks on first bow at front of box. Mark and drill 5/16" holes and fasten with screws **(M)**.



STEP 11: Check cable tension scale for correct tension (see step 2 on page 7). Cut excess cable, leaving 10" of cable. Secure remaining 10" of cable to cable tension scale housing.





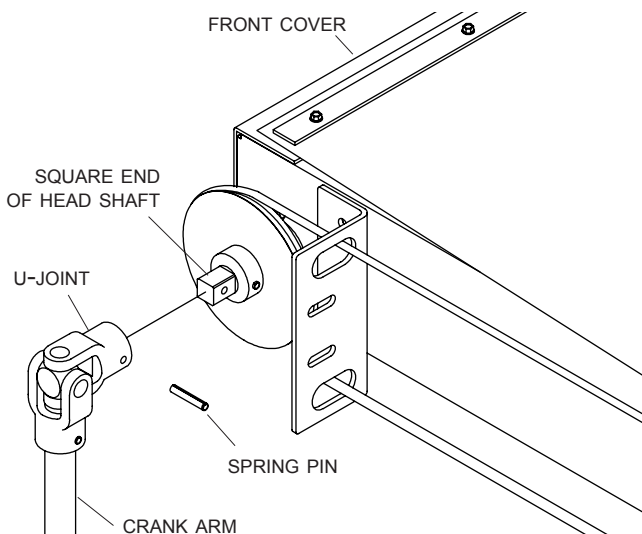
TIPS: Lubricate top rail and underside of tarp along top rail with silicone to facilitate opening and closing.
 Leave tarp open overnight to train fabric to fold.

NOTE: See page 26 for manual crank option or page 27 for crank reducer option. Electric motor options are on pages 28 through 32.

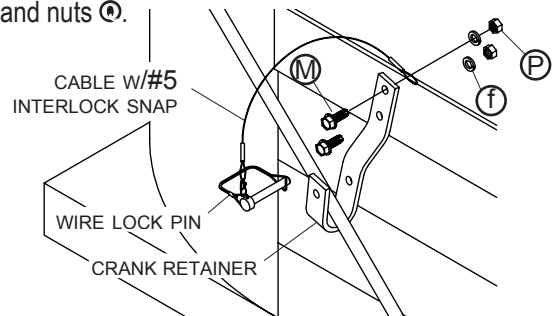
NOTE: To tension tarp, lock U-joint on crank and slip pulleys around cable. Rotate crank handle around and back into crank retainer with tension applied.

Item	Part #	Description
1.	1700527	Econo U-Joint
2.	1700445	Spring Pin - 1/4" x 1 1/2"
3.	1107984	Slide Handle
4.	1107838	Crank Extension
5.	1111383	Crank Arm Kit w/o U-Joint
6.	1701118	Spring Pin - 1/4" x 1 3/16"
7.	1107993	Crank Arm Assembly
8.	1100574	Cable w/Snap
9.	1101930	Crank Retainer Offset J-Hook
10.	1700526	Wire Lock Pin - 3/8" x 2 1/2"
M.	1700400	Self-Tapping Screw - 3/8" x 1"
f	1700434	Lock Washer - 3/8"
Q.	1700407	Hex Nut - 3/8"

STEP 1: Slide crank arm assembly onto square end of head shaft. Secure with spring pin.

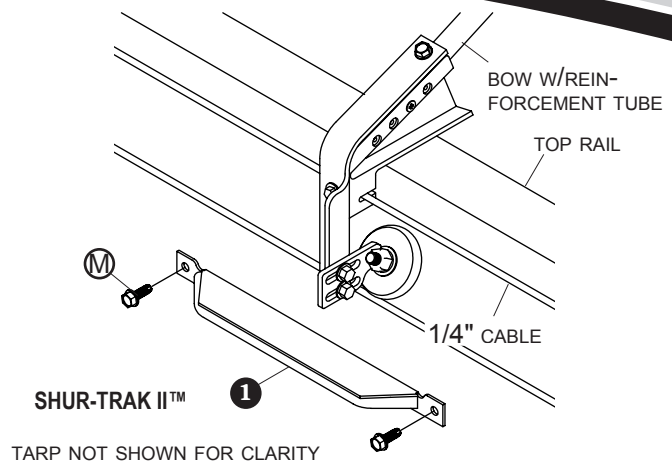
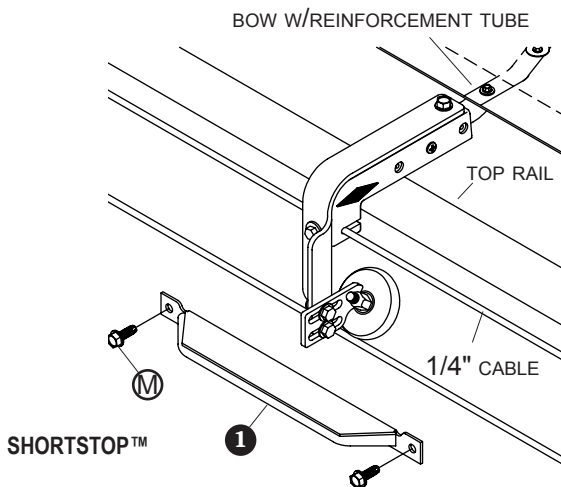


STEP 2: Install crank retainer within easy reach. Mark and drill 5/16" holes; fasten with screws (M), lock washers (f) and nuts (Q).



NOTE: Install lock washers and hex nuts on inside of box if screw threads are exposed.

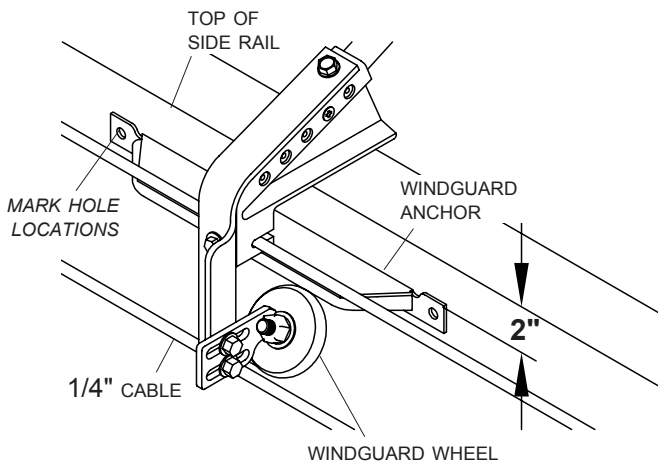
CAUTION
 Do not drive vehicle unless crank arm is secured in crank retainer with wire lock pin.



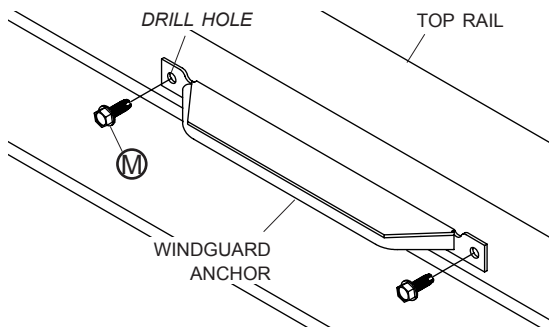
Item	Part #	Description
1.	1115367	Windguard Anchor
M.	1700400	Self-Tapping Screw - 3/8" x 1"

NOTE: Windguard anchor installation is same for both Shur-Trak II™ and ShortStop™ systems.

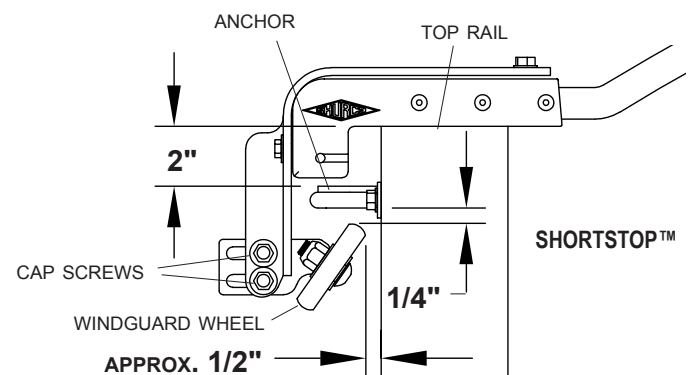
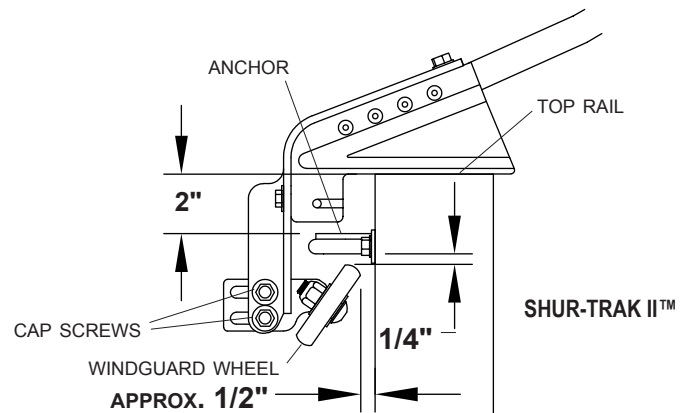
STEP 1: Close tarp tight and secure crank arm in crank retainer. Position windguard anchor 2" below top of side rail between windguard wheel and box. Align center of anchor with center of wheel adjustment plate. Mark hole locations, remove anchor and open tarp.



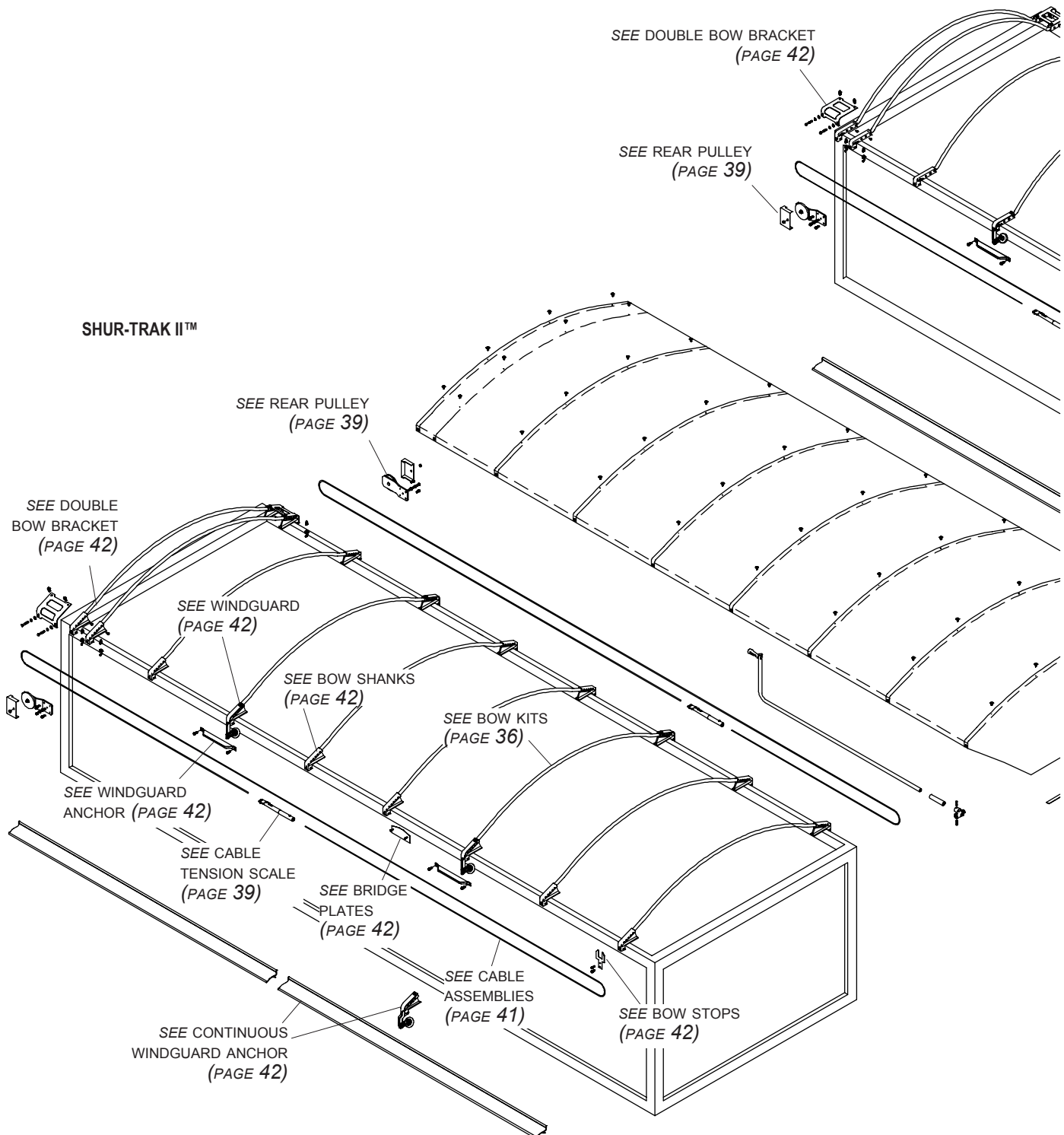
STEP 2: Level anchor on marked hole locations. Center punch hole locations. Drill 5/16" holes and fasten with screws M.

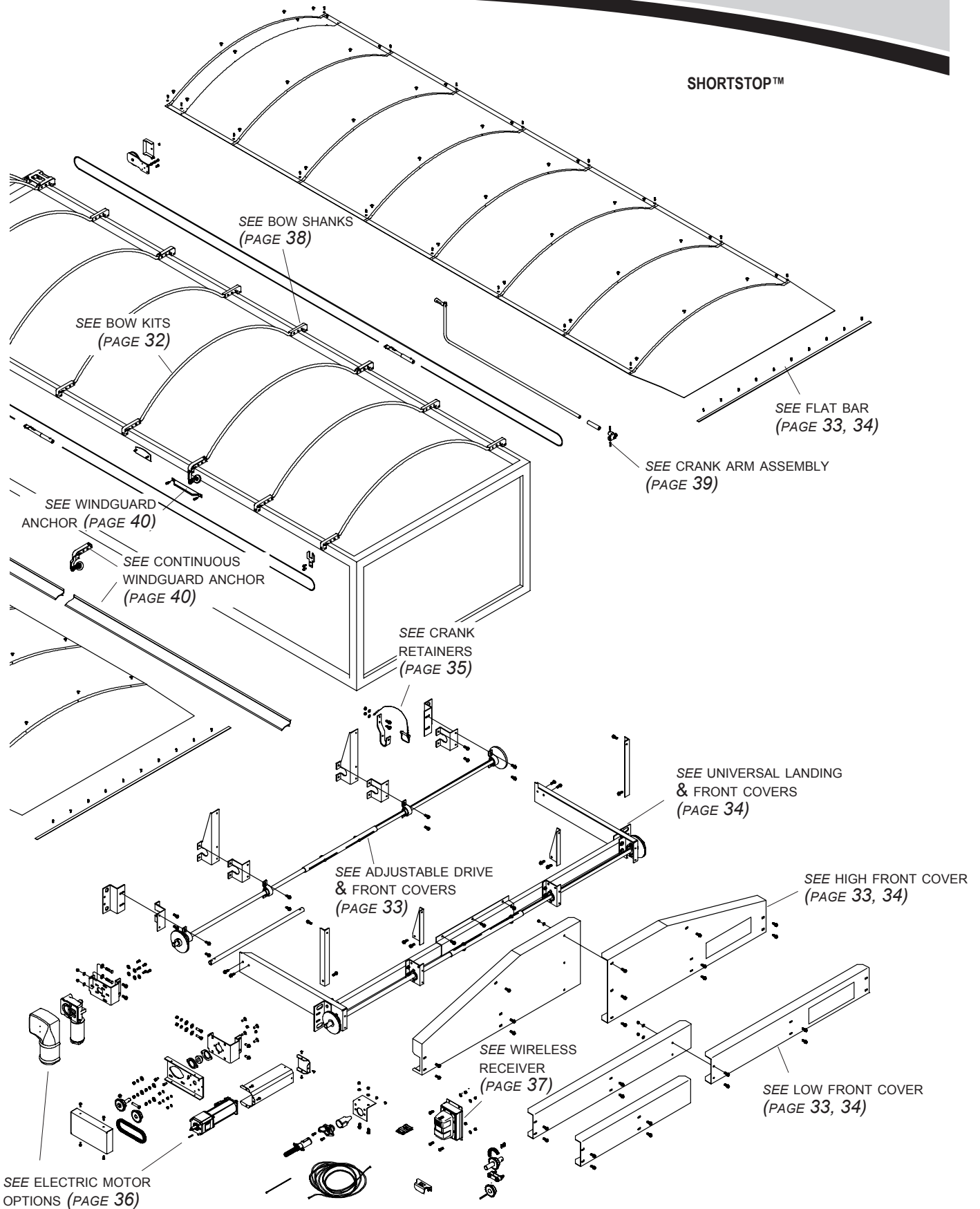


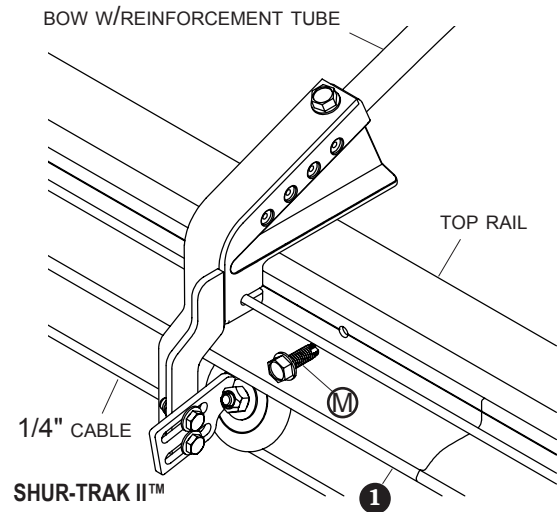
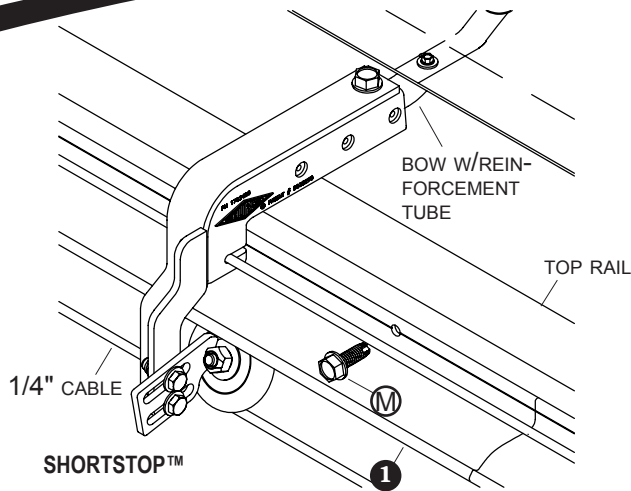
STEP 3: Loosen cap screws and adjust distance between wind wheel and box from 3/8" to 1/2". Adjust distance between bottom of anchor and top of wheel to 1/4".



NOTE: Shim out anchors as required on tapered trailers.





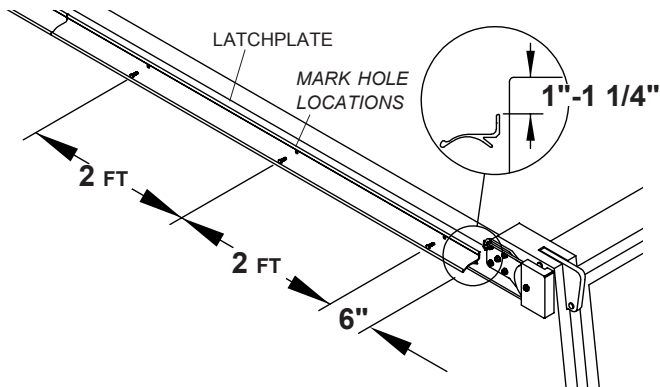


TARP NOT SHOWN FOR CLARITY

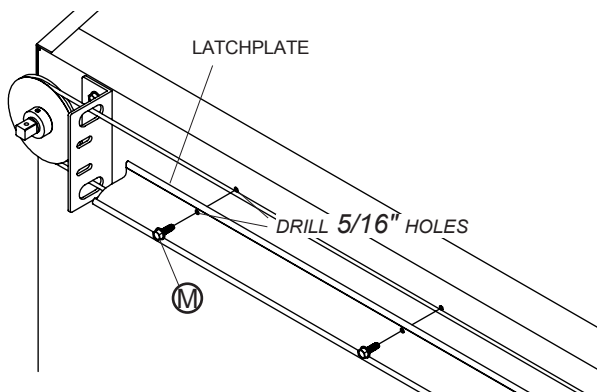
NOTE: Continuous windguard anchor installation is same for both Shur-Trak II™ and ShortStop™ systems.

Item	Part #	Description
1.	1100749	Side Mount Latchplate - 4'
	1700802	Side Mount Latchplate - 6'
M.	1700400	Self-Tapping Screw - 3/8" x 1"

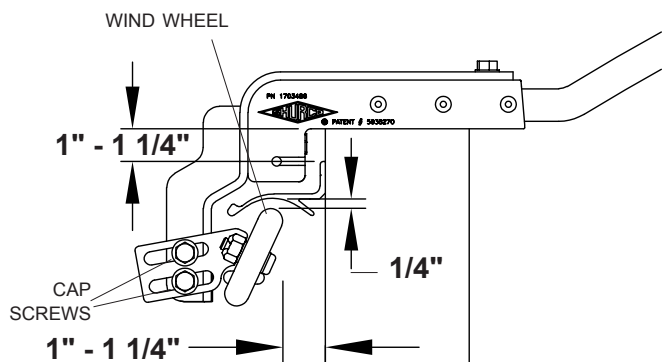
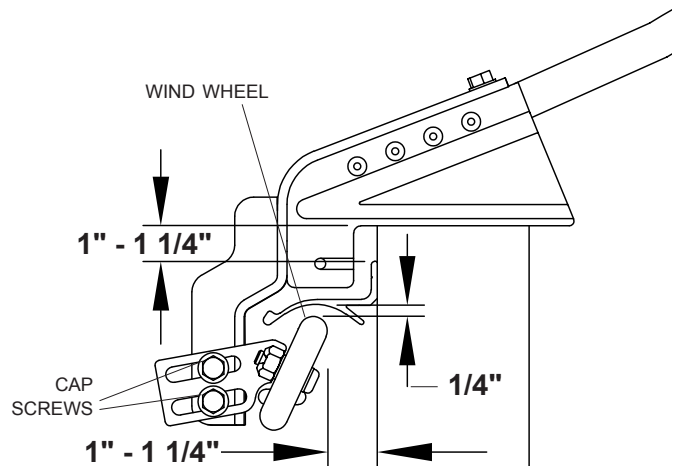
STEP 1: Mark hole locations on latchplate about every 2' apart, with holes no more than 6" from edges. Position latchplate 1" to 1 1/4" below top edge of side rails. Mark hole locations on box.



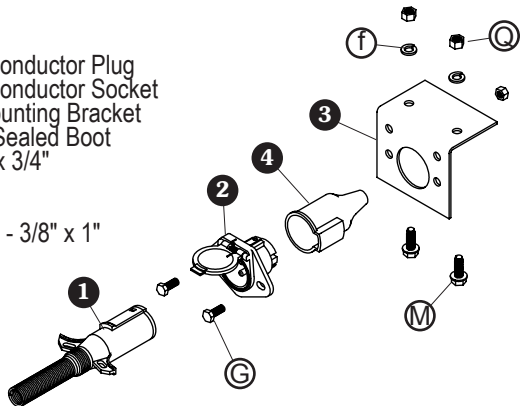
STEP 2: Drill 5/16" pilot holes through latchplate and box. Fasten with screws M.



STEP 3: Loosen cap screws and adjust distance between wind wheel and box to 1" to 1 1/4". Adjust distance between bottom of latchplate and top of wheel to 1/4".



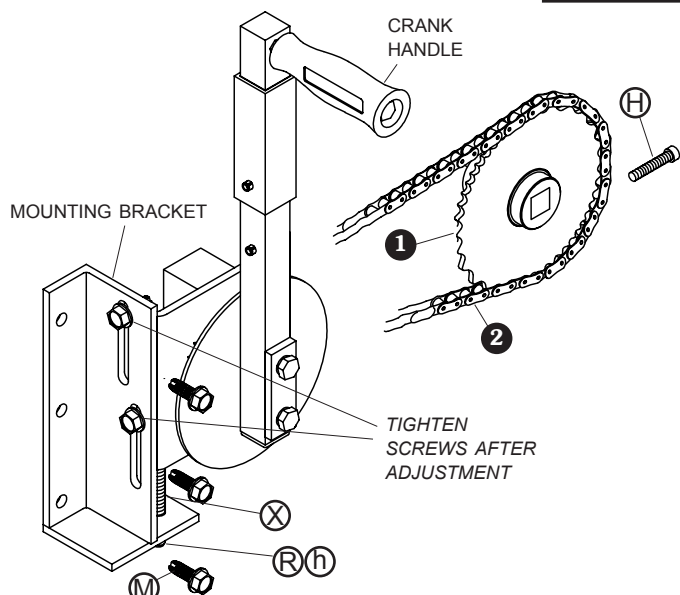
Item	Part #	Description
1.	1115385	Heavy-Duty Dual-Conductor Plug
2.	1115386	Heavy-Duty Dual-Conductor Socket
3.	1109015	Dual-Conductor Mounting Bracket
4.	1704573	Conductor Socket Sealed Boot
G.	1701045	Cap Screw - 5/16" x 3/4"
N.	1700411	Hex Nut - 5/16"
Q.	1700407	Hex Nut - 3/8"
M.	1700400	Self-Tapping Screw - 3/8" x 1"
f.	1700434	Lock Washer - 3/8"



STEP 1: Mount bracket to box with screws **G**, washers **f** and nuts **Q**. Fasten conductor socket to bracket with screws **G** and nuts **N**.

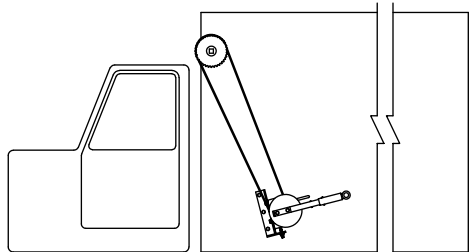
STEP 2: Plug conductor plug into conductor socket.

MANUAL CRANK OPTION

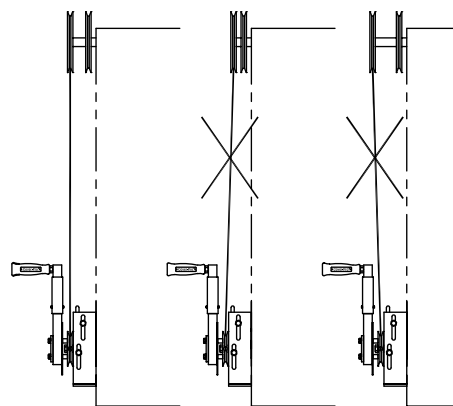


Item	Part #	Description
	1108960	Manual Chain Drive Crank Kit
1.	1701515	Sprocket w/Hub - 36 Tooth
2.	1109179	Roller Chain/Link - 14'
H.	1701493	Cap Screw - 5/16" x 1 1/2"
R.	1700418	Centerlock Nut - 3/8"
M.	1700400	Self-Tapping Screw - 3/8" x 1"
X.	1702080	Carriage Bolt - 3/8" x 4"
h.	1700429	Flat Washer - 3/8"

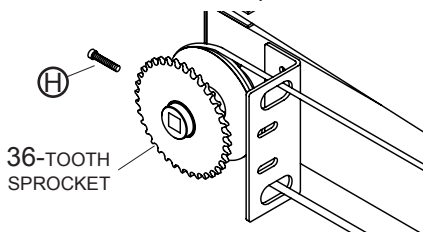
STEP 1: Locate manual crank on box, where it will not interfere with tarp operation, at an accessible height. Mark and drill 5/16" holes and fasten with screws **M**.



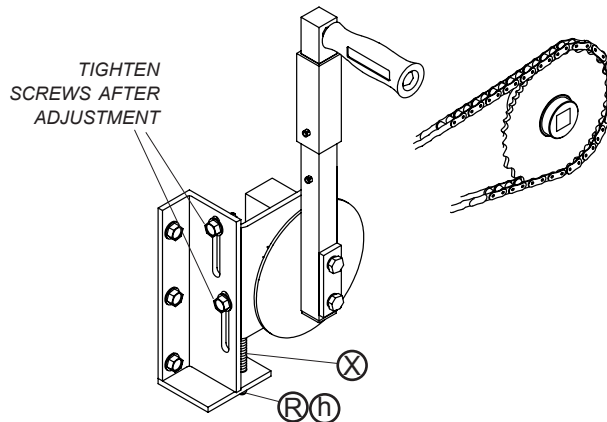
STEP 2: Align chain vertically along side of box.

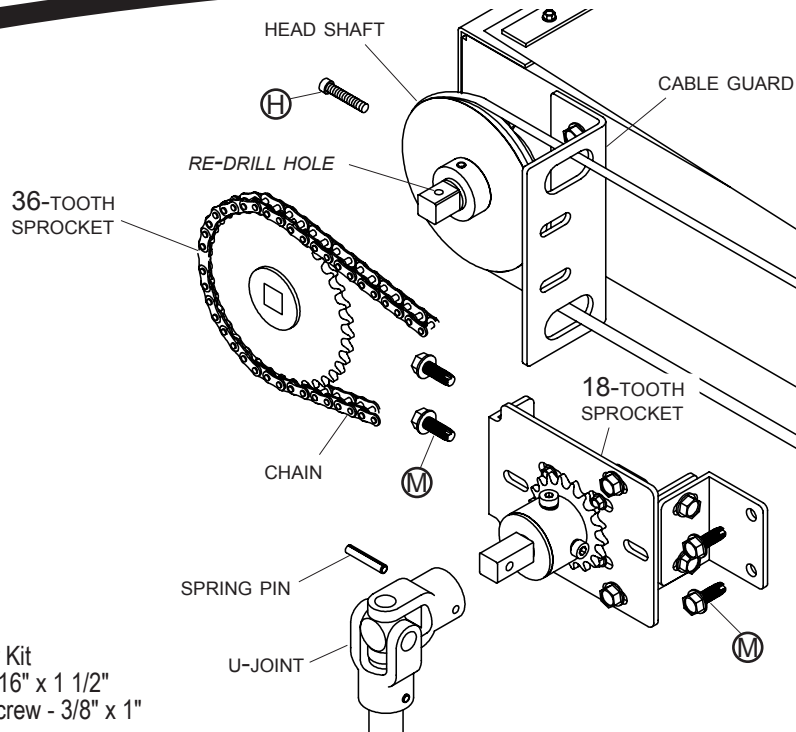


STEP 3: Install 36-tooth sprocket with screw **H**.



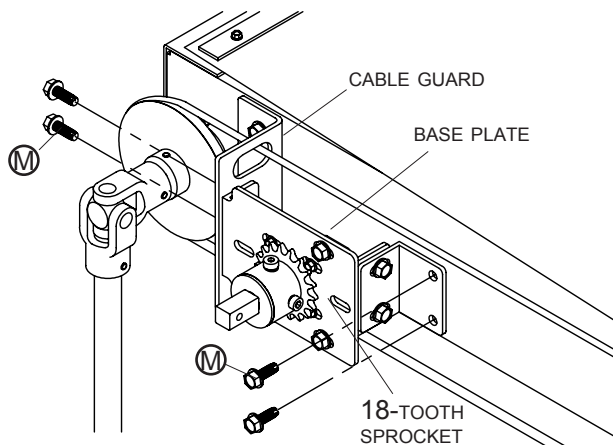
STEP 4: Install chain and connector link over sprocket. Tighten chain and set washer **f** and nut **Q** on bolt **X**.



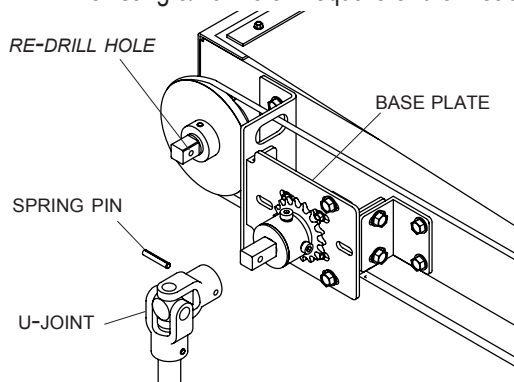


Item	Part #	Description
	1108119	Crank Reducer Kit
H.	1701493	Cap Screw - 5/16" x 1 1/2"
M.	1700400	Self-Tapping Screw - 3/8" x 1"

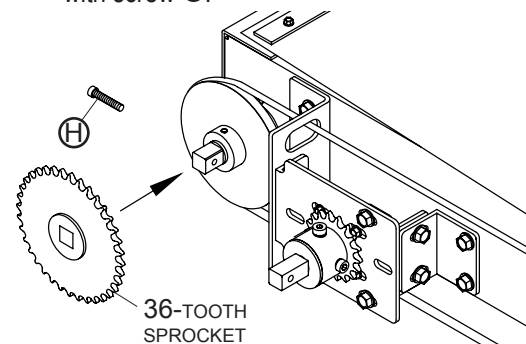
STEP 1: Center base plate on cable guard and clamp in place. Drill two 5/16" holes and fasten with screws **H**.



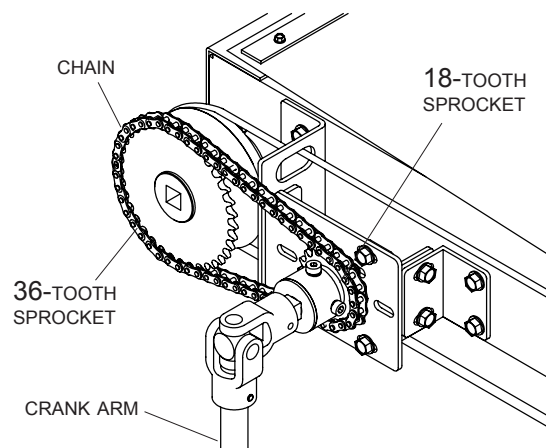
STEP 2: Remove spring pin and U-joint from head shaft. Re-drill existing 5/16" hole in square end of head shaft.



STEP 3: Insert 36-tooth sprocket over head shaft and secure with screw **H**.

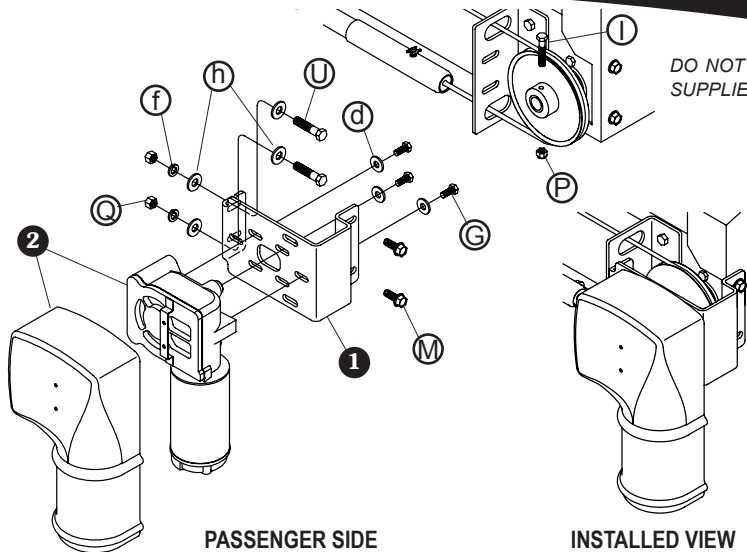


STEP 4: Install chain and connector link over sprockets. Tighten chain and re-install crank.



Electric Motor Side Mount Option - Direct Drive

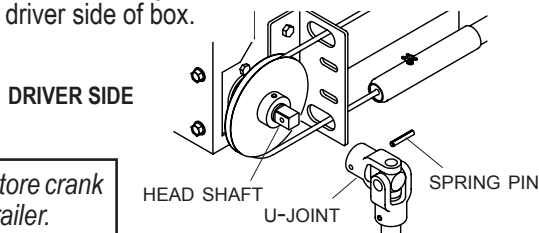
NOTE: Switch wire connections on motor to reverse flow of current. Ground system through solenoid only. Mount gear box as shown or with motor up.



DO NOT USE SCREWS SUPPLIED W/MOTOR

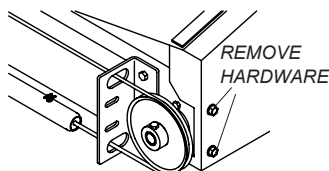
Item	Part #	Description
1.	1117518	Side Mount Motor Mount Bracket - Chain Drive
2.	1121307	Durabuilt™ Motor w/Cover - 2 1/8" Shaft
G.	1701045	Cap Screw - 5/16" x 3/4"
I.	1701468	Cap Screw - 5/16" x 1 3/4"
M.	1700400	Self-Tapping Screw - 3/8" x 1"
U.	1701434	Cap Screw - 3/8" x 1 1/2"
P.	1702492	Top Lock Nut - 5/16"
Q.	1700407	Hex Nut - 3/8"
d.	1700428	Flat Washer - 5/16"
f.	1700434	Lock Washer - 3/8"
h.	1700429	Flat Washer - 3/8"

STEP 1: Remove spring pin and crank arm from head shaft on driver side of box.

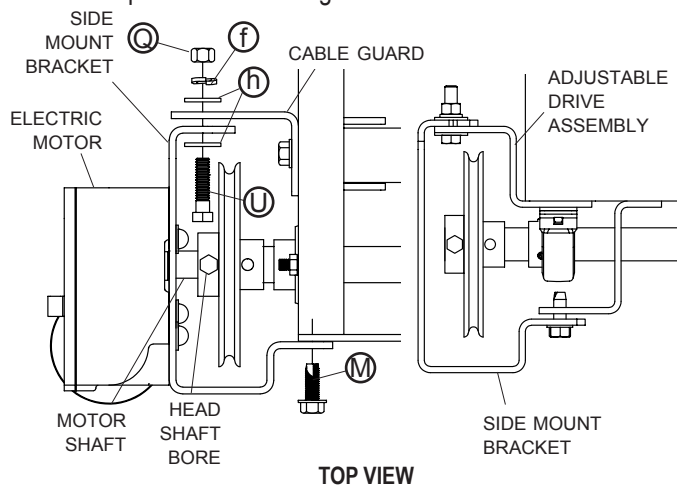


NOTE: Store crank arm on trailer.

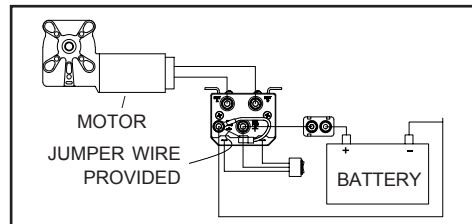
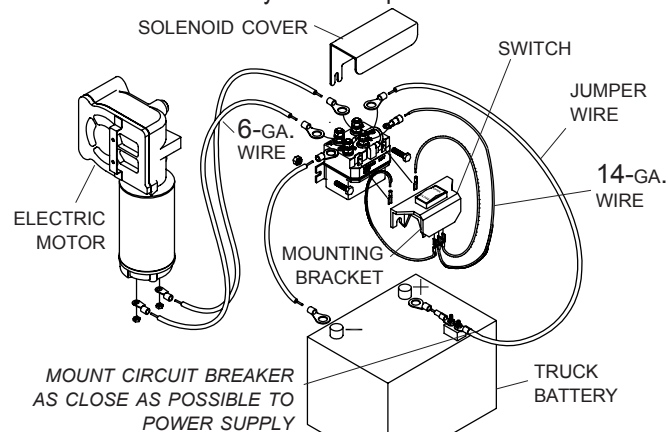
STEP 2: Remove hardware from passenger side of front cover as shown.



STEP 3: Loosely fasten electric motor to side mount bracket. Insert motor shaft into bore on passenger side head shaft. Secure with screw 1 and nut 2. Attach side mount bracket to cable guard. Fasten with screws U and U, washer h, lock washers f and nuts Q. Replace hardware on front cap, engaging motor mount plate as shown. Tighten motor mount bolts.

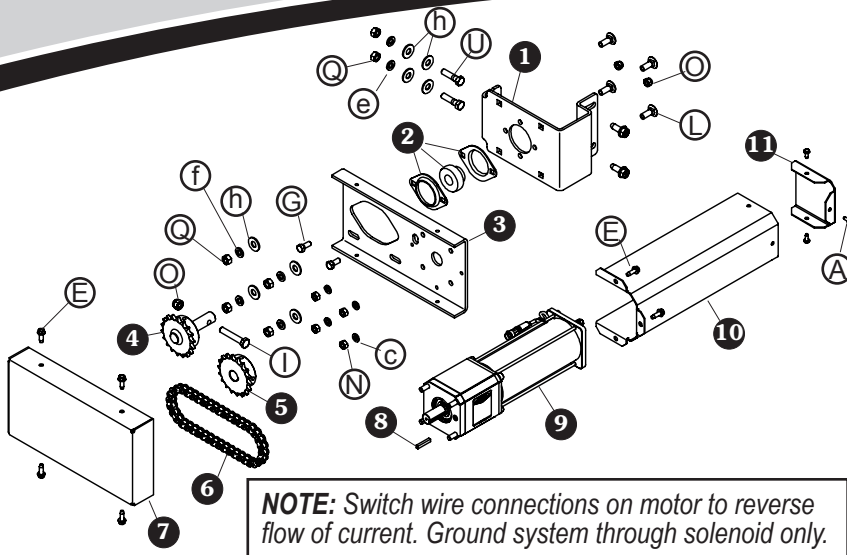


STEP 4: Mount solenoid in suitable location - ventilated area near battery is ideal. Run 6-ga. wire from motor to solenoid and from power supply to circuit breaker to solenoid as shown. Run 14-ga. wire from solenoid to switch and mount switch in area convenient to operator. Mount switch inside cab. Mount with bracket or install directly into dash panels.



TIPS ON WIRING

- Pick up power at battery or terminal block. Use 6-ga. wire or larger when connecting to power supply and motor.
- Do not place wire in areas where wire could be pinched or cut during operation. Be sure to loop extra wire at hinge area on dump bodies.
- If switch is running system backwards, reverse 14-ga. wire at solenoid to reverse system operation.
- Hold momentary contact open or closed to operate system.

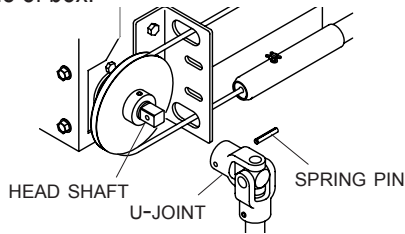


Item	Part #	Description
1.	1122380	Side Mt. Motor Bracket - Chain Drive
2.	1703374	Radial Ball Bearing w/Flanges - 3/4"
3.	1122381	Side Mount Adjustable Bracket
4.	1122379	Chain Drive Adapter Shaft
5.	1122377	Sprocket - 18 Tooth - 3/4" Bore
6.	1122385	Roller Chain Assembly
7.	1122382	Chain Drive Cover
8.	1120762	Square Key - 3/16" x 1 1/4"
9.	1122442	Motor - Shur-Trak II™ HD
10.	1122383	Motor Cover
11.	1122384	Motor Cover End Cap
A.	1704308	Flanged Cap Screw - #10 x 1/2"
E.	1700403	Self-Tapping Screw - 1/4" x 3/4"
G.	1701045	Cap Screw - 5/16" x 3/4"
I.	1701468	Cap Screw - 5/16" x 1 3/4"
L.	1705051	Carriage Bolt - 3/8" x 1"
N.	1700411	Hex Nut - 5/16"
O.	1700419	Nylon Lock Nut - 5/16"
Q.	1700407	Hex Nut - 3/8"
U.	1701434	Cap Screw - 3/8" x 1 1/2"
c.	1700433	Lock Washer - 5/16"
f.	1700434	Lock Washer - 3/8"
h.	1700429	Flat Washer - 3/8"

NOTE: Switch wire connections on motor to reverse flow of current. Ground system through solenoid only.

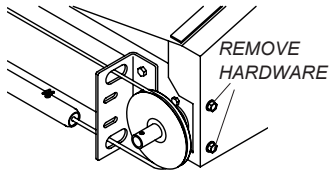
STEP 1: Remove spring pin and crank arm from head shaft on driver side of box.

DRIVER SIDE

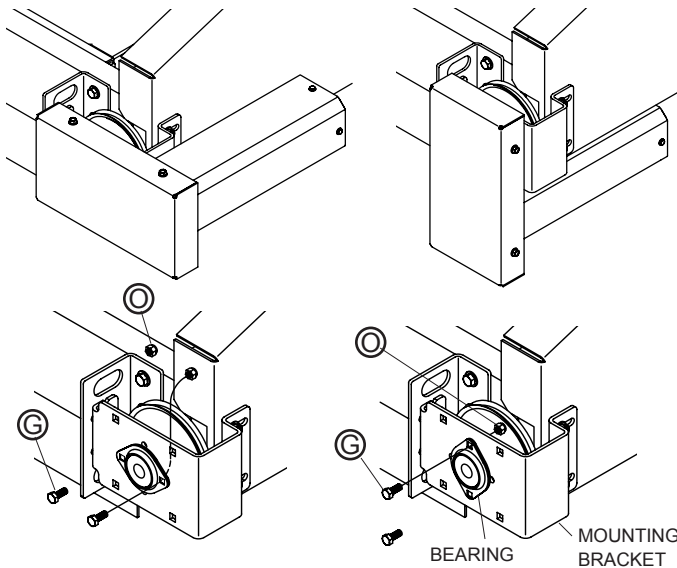


NOTE: Store crank arm on trailer.

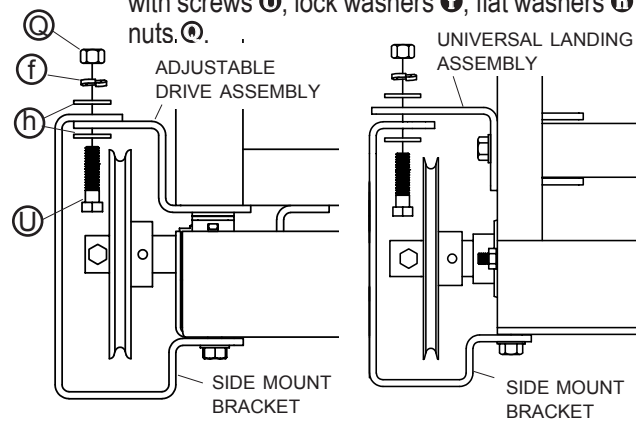
STEP 2: Remove hardware from passenger side of front cover as shown.



STEP 3: Determine desired orientation of gearbox assembly and align as shown. Loosely fasten bearing to mounting bracket with screws **G** and lock nuts **O**.

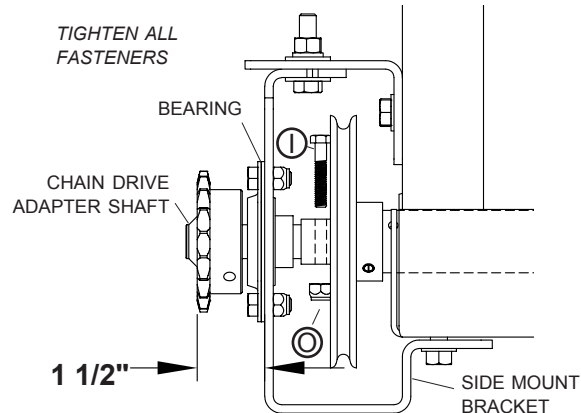


STEP 4: Loosely fasten side mount bracket to cable guard with screws **U**, lock washers **f**, flat washers **h** and nuts **Q**.

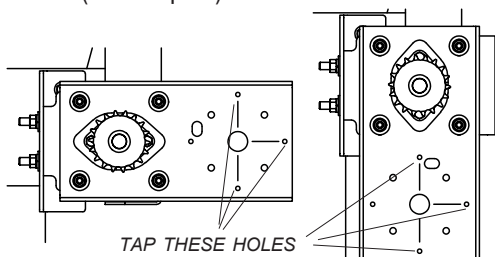


NOTE: If you have adjustable drive without cover, fasten side mount bracket to adjustable drive bracket (P/N 1115128).

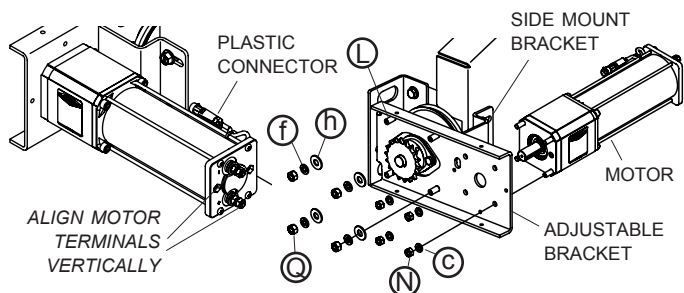
STEP 5: Insert chain drive adapter shaft through bearing and fasten to head shaft with screw **I** and nut **O**. Adjust side mount bracket so face of sprocket is 1 1/2" from face of bracket and align adapter shaft with head shaft. Make sure bracket is square to shaft, then tighten fasteners.



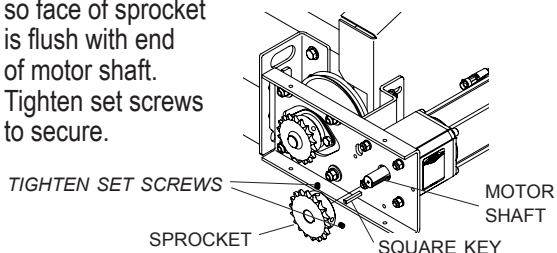
STEP 6: Locate three existing holes shown below on adjustable mount bracket. Using impact driver, tap holes with screw **B**. Tapped holes will be used to install motor cover (see Step 11).



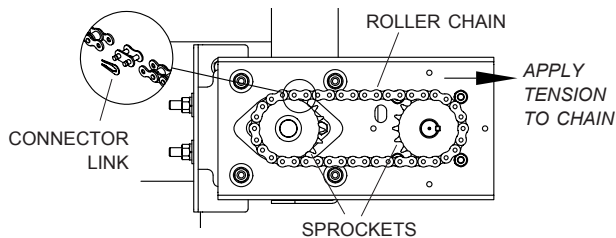
STEP 7: Orient motor so terminals align vertically and plastic connector is between motor and cover as shown. Securely fasten motor to adjustable bracket with washers **G** and nuts **N**. Loosely fasten adjustable bracket to side mount bracket with carriage bolts **L**, flat washers **D**, lock washers **F** and nuts **Q**, allowing bracket to slide in adjustment slots.



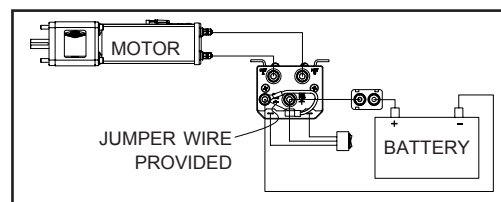
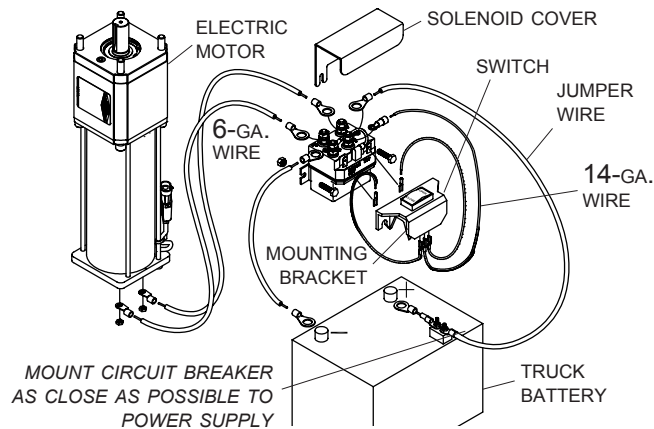
STEP 8: Insert square key into keyway on motor shaft and align key with keyway in sprocket. Slide sprocket onto shaft so face of sprocket is flush with end of motor shaft. Tighten set screws to secure.



STEP 9: Wrap roller chain around sprockets and connect ends with connector link. Pull on bracket to separate sprockets and apply tension to chain, removing slack from chain. Rotate head shaft slightly, if needed, to straighten chain and remove slack (motor shaft will not move). With chain at correct tension, securely tighten fasteners holding adjustable bracket to side mount bracket.



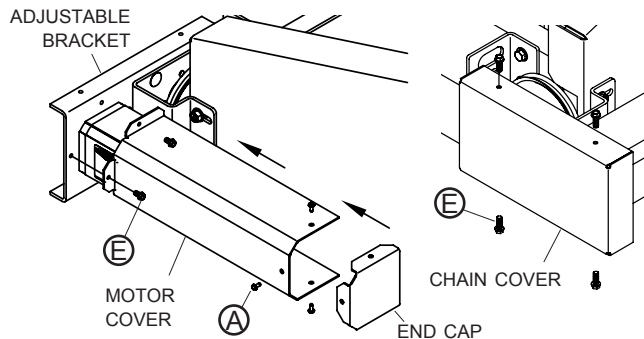
STEP 10: Mount solenoid in suitable location - ventilated area near battery is ideal. Run 6-ga. wire from motor to solenoid and from power supply to circuit breaker to solenoid as shown. Run 14-ga. wire from solenoid to switch and mount switch in area convenient to operator. Mount switch inside cab. Mount with bracket or install directly into dash panels.

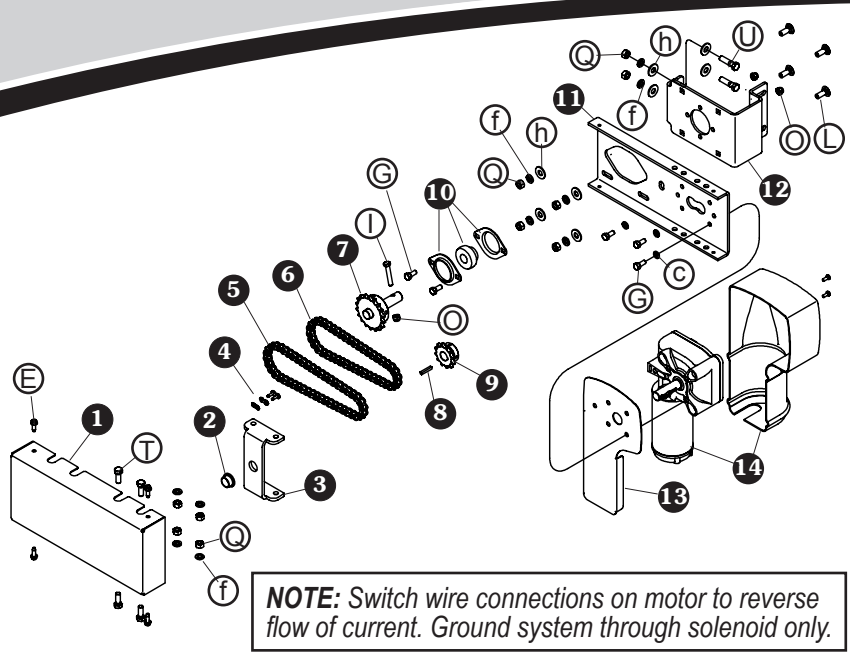


TIPS ON WIRING

- Pick up power at battery or terminal block. Use 6-ga. wire or larger when connecting to power supply and motor.
- Do not place wire in areas where wire could be pinched or cut during operation. Be sure to loop extra wire at hinge area on dump bodies.
- If switch is running system backwards, reverse 14-ga. wire at solenoid to reverse system operation.
- Hold momentary contact open or closed to operate system.

STEP 11: Assemble end cap to motor cover and fasten with three screws **A**. Fasten motor cover to adjustable bracket with three screws **B**. Using impact driver, fasten chain cover to adjustable bracket with four screws **C**.



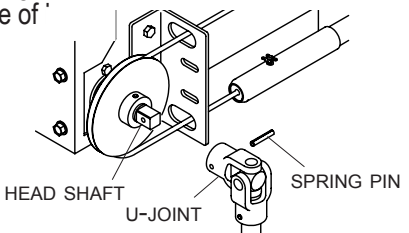


Item	Part #	Description
1.	1125688	Chain Drive Cover - Durabuilt™
2.	1704811	Flange Bearing - 3/4" ID
3.	1125687	Motor Shaft Support Bracket
4.	1701057	Connector Link
5.	1122562	Roller Chain - 23 1/2"
6.	1115383	Roller Chain - 21 3/4"
7.	1122379	Chain Drive Adapter Shaft
8.	1125699	Square Key - 3/16" x 3/16" x 1 1/8"
9.	1125684	Sprocket - T12-40 x 3/4" Bore
10.	1703374	Radial Ball Bearing w/Flanges - 3/4"
11.	1125686	Adjustable Side Mount Bracket - Durabuilt Motor
12.	1122380	Side Mt. Motor Bracket - Chain Drive
13.	1125689	Durabuilt™ Motor Cover
14.	1125700	Durabuilt™ Motor w/Cover
E.	1700403	Self-Tapping Screw - 1/4" x 3/4"
G.	1701045	Cap Screw - 5/16" x 3/4"
I.	1701468	Cap Screw - 5/16" x 1 3/4"
L.	1705051	Carriage Bolt - 3/8" x 1"
T.	1701061	Cap Screw - 3/8" x 1"
N.	1700419	Nylon Lock Nut - 5/16"
Q.	1700407	Hex Nut - 3/8"
U.	1701434	Cap Screw - 3/8" x 1 1/2"
c.	1700433	Lock Washer - 5/16"
f.	1700434	Lock Washer - 3/8"
h.	1700429	Flat Washer - 3/8"

NOTE: Switch wire connections on motor to reverse flow of current. Ground system through solenoid only.

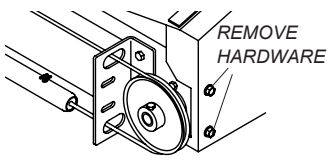
STEP 1: Remove spring pin and crank arm from head shaft on driver side of

DRIVER SIDE



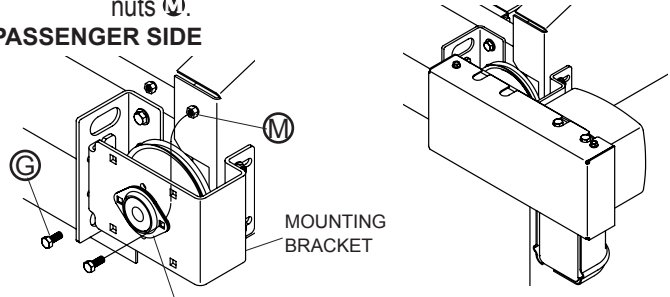
NOTE: Store crank arm on trailer.

STEP 2: Remove hardware from passenger side of front cover as shown.

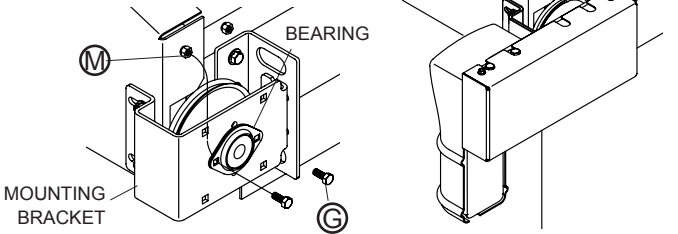


STEP 3: Position gearbox assembly as shown. Loosely fasten bearing to mounting bracket with screws G and lock nuts N.

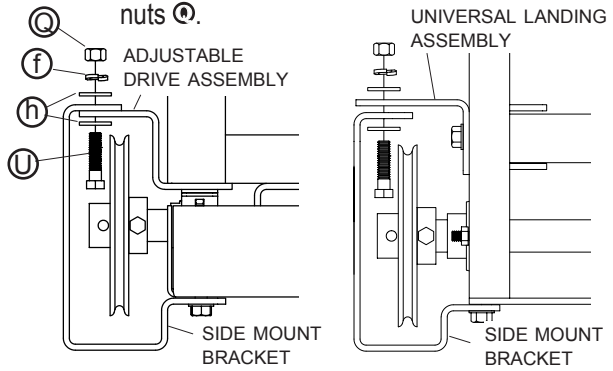
PASSENGER SIDE



DRIVER SIDE

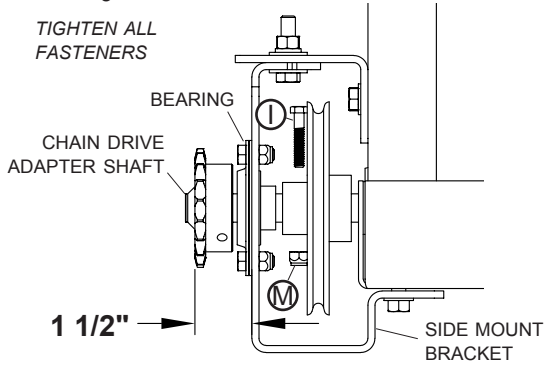


STEP 4: Loosely fasten side mount bracket to cable guard with screws U, lock washers f, flat washers h and nuts N.

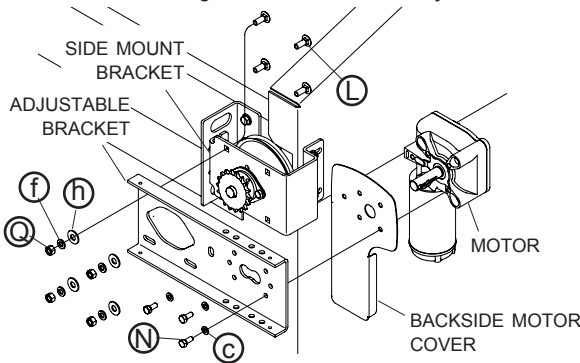


NOTE: If you have adjustable drive without cover, fasten side mount bracket to adjustable drive bracket (P/N 1115128).

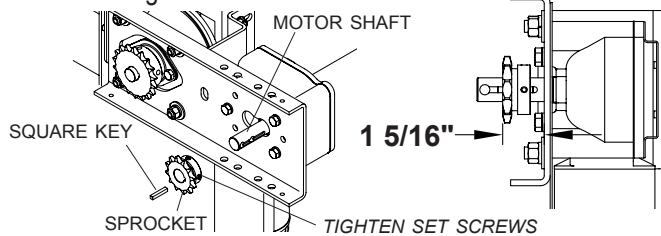
STEP 5: Insert chain drive adapter shaft through bearing and fasten to head shaft with screw I and nut N. Adjust side mount bracket so face of sprocket is 1 1/2" from face of bracket and align adapter shaft with head shaft. Make sure bracket is square to shaft, then tighten fasteners.



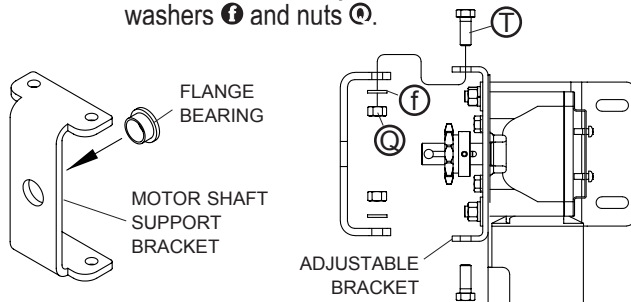
STEP 6: Position motor and cover as shown and fasten to adjustable bracket with washers **C** and nuts **N**. Loosely fasten adjustable bracket to side mount bracket with carriage bolts **L**, flat washers **H**, lock washers **F** and nuts **Q**, allowing bracket to slide in adjustment slots.



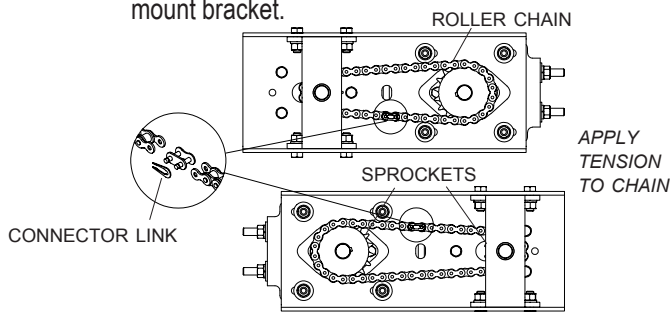
STEP 7: Insert square key into keyway on motor shaft and align key with keyway in sprocket. Slide sprocket onto shaft so face of sprocket is 1 5/16" from face of bracket. Tighten set screws to secure.



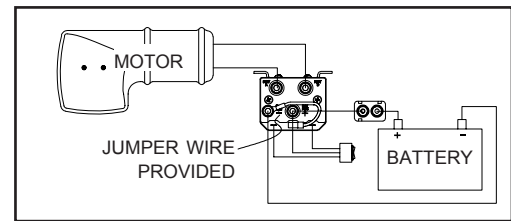
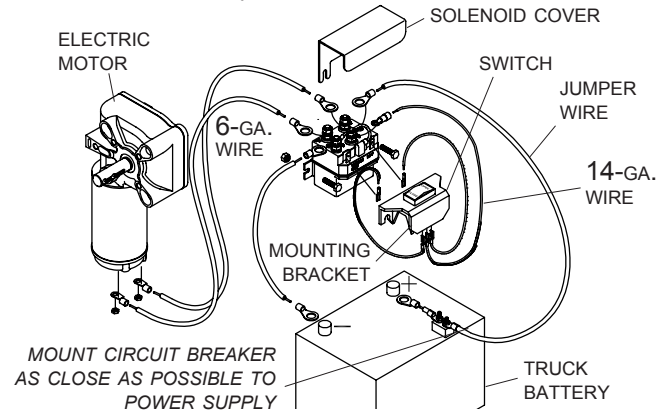
STEP 8: Install flange bearing into motor shaft support bracket. Fasten bracket to adjustable bracket with screws **T**, washers **F** and nuts **Q**.



STEP 9: Wrap roller chain around sprockets and connect ends with connector link. Pull adjustable bracket outward from trailer to remove slack from chain. If needed, rotate head shaft slightly to tighten chain (motor shaft will not move). With chain at correct tension, securely tighten fasteners holding adjustable bracket to side mount bracket.



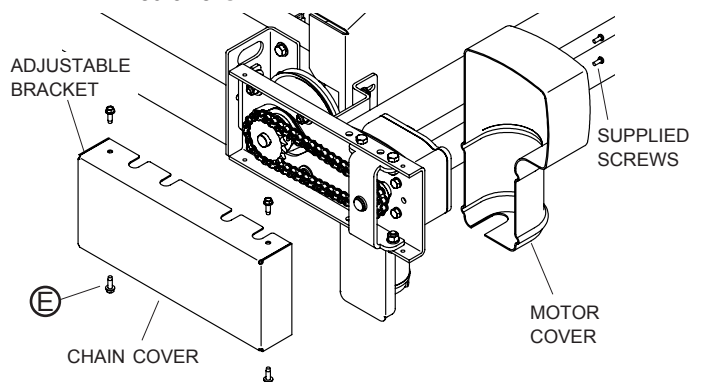
STEP 10: Mount solenoid in suitable location - ventilated area near battery is ideal. Run 6-ga. wire from motor to solenoid and from power supply to circuit breaker to solenoid as shown. Run 14-ga. wire from solenoid to switch and mount switch in area convenient to operator. Mount switch inside cab. Mount with bracket or install directly into dash panels.



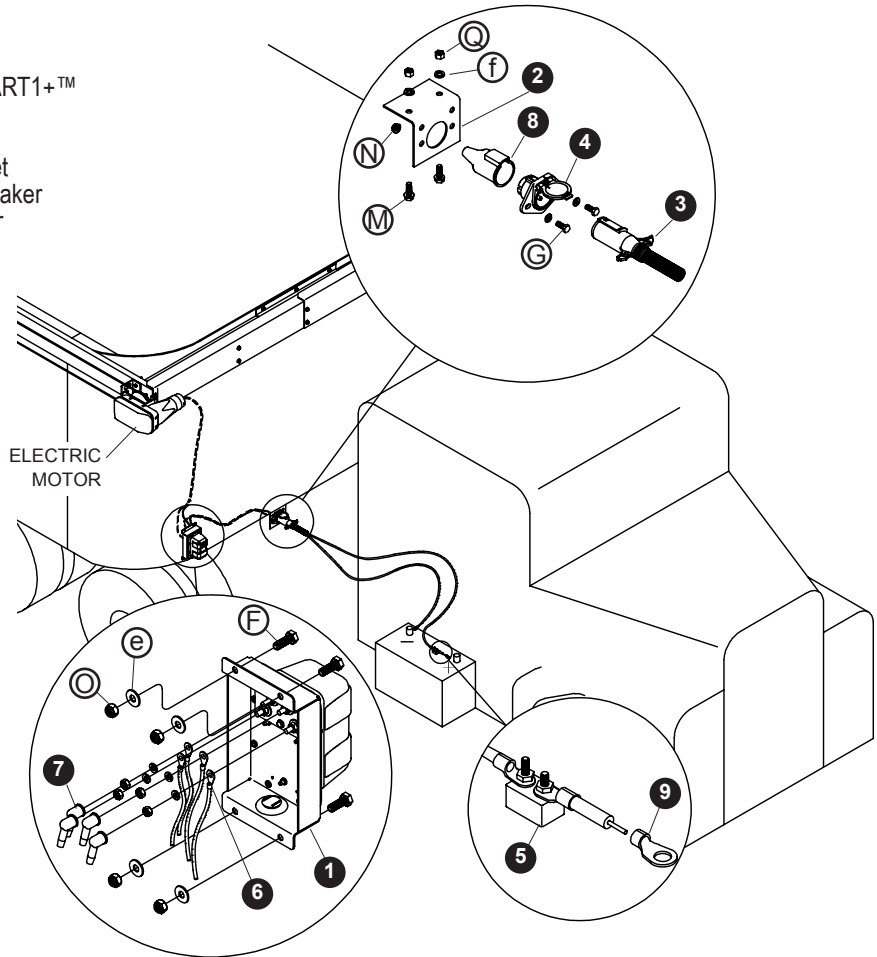
TIPS ON WIRING

- Pick up power at battery or terminal block. Use 6-ga. wire or larger when connecting to power supply and motor.
- Do not place wire in areas where wire could be pinched or cut during operation. Be sure to loop extra wire at hinge area on dump bodies.
- If switch is running system backwards, reverse 14-ga. wire at solenoid to reverse system operation.
- Hold momentary contact open or closed to operate system.

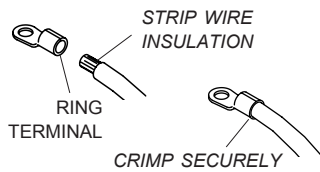
STEP 11: Fasten motor cover to adjustable bracket with supplied screws. Fasten chain cover to adjustable bracket with screws **E**.



Item	Part #	Description
1.	1123582	Shur-Co® Wireless Receiver - SMART1+™
2.	1109015	Mounting Bracket
3.	1115385	Heavy-Duty Dual-Conductor Plug
4.	1115386	Heavy-Duty Dual-Conductor Socket
5.	1704354	40-Amp Modified-Reset Circuit Breaker
	1703480	50-Amp Auto-Reset Circuit Breaker
6.	1702707	Ring Terminal - 6 Ga. - 1/4" Stud
7.	1704330	Rubber Boot
8.	1704573	Conductor Socket Sealed Boot
9.	1703244	Ring Terminal - 6 Ga. x 3/8" Stud
F.	1702926	Cap Screw - 5/16" x 7/8"
G.	1701045	Cap Screw - 5/16" x 3/4"
N.	1704946	Flanged Top Lock Nut - 5/16"
O.	1700419	Nylon Lock Nut - 5/16"
Q.	1700407	Hex Nut - 3/8"
M.	1700400	Self-Tapping Screw - 3/8" x 1"
f.	1700434	Lock Washer - 3/8"
e.	1201237	Flat Washer - 5/16"
-.	1700427	Flat Washer - 1/4"

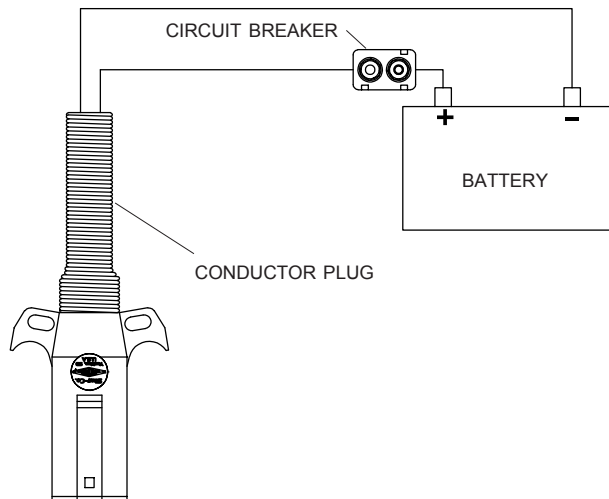


NOTE: Cut wires to length and strip only enough wire insulation to install ring terminals. Insert bare wire into ring terminals and crimp securely.

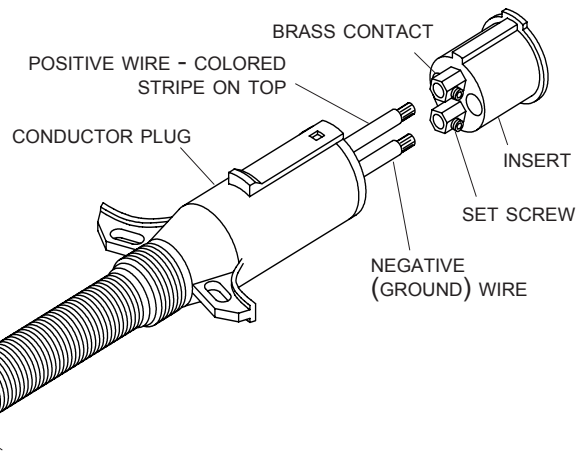


MOUNT CIRCUIT BREAKER AS CLOSE TO POWER SUPPLY AS POSSIBLE

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

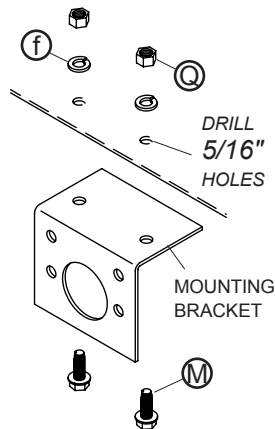


STEP 2: Conductor plug. Unfasten and remove insert from conductor plug. Feed 6-ga. wire through plug and into brass contacts on insert. Tighten set screws to secure wires. Replace insert into conductor plug and secure screw.

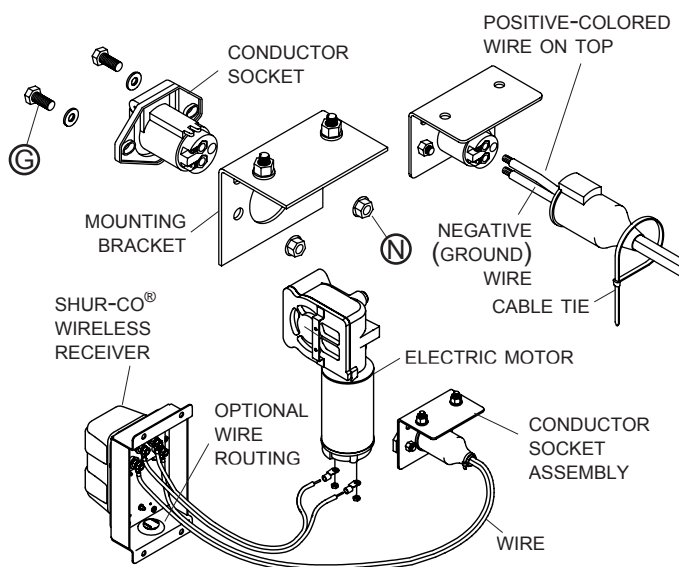


STEP 1: Mounting bracket.

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 **(f)**, lock washers **(f)** and nuts **(Q)**.



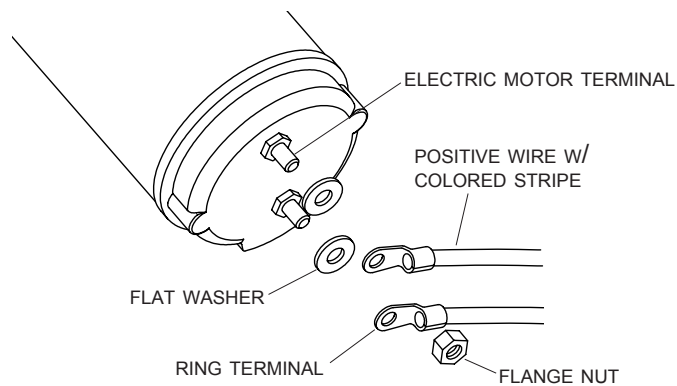
STEP 2: Conductor socket. Fasten conductor socket into mounting bracket with 5/16" x 3/4" cap screws **(G)** and nuts **(N)**. Bring 6-ga. wire from motor through sealed boot. Connect wire ends to conductor socket, aligning positive wire on socket with positive wire on conductor plug. Slide sealed boot against conductor socket and secure boot to wire with cable tie.



Run 6-ga. wire from receiver to conductor socket through rubber boots. Crimp 1/4" ring terminals to wire ends. On back of wireless receiver, place positive wire on lower orange post and negative wire on lower black post. Secure with 1/4" lock washers and hex nuts. Coat with dielectric grease and install rubber boots over ring terminals. When wiring socket, align positive wire with positive wire on plug.

Mount wireless receiver at suitable location on front of trailer. Mark and drill 11/32" holes and fasten with 5/16" x 7/8" cap screws **(f)**, flat washers **(G)** and lock nuts **(Q)**.

STEP 4: Connect wires to motor.



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

OPERATION:

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

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.

WARNING
 Apply operation warning decal (P/N 1704562) in same location as receiver.

STEP 3: Shur-Co® wireless receiver. Run 6-ga. wire from electric motor to receiver. Route wire as desired. Insert end of wire through rubber boots, then crimp 1/4" ring terminals onto wire ends. Remove nuts and lock washers from back of wireless receiver. Place positive wire on upper orange post and negative wire on upper black post. Secure lock washers and hex nuts. Coat with dielectric grease and install rubber boots over ring terminals.

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

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

The Shur-Trak II™ tarping system is designed to provide years of reliable service. Follow the installation instructions, maintenance schedule and operating instructions provided to receive years of service from your Shur-Trak II™ system. Incorrect operation or inadequate maintenance can severely impair operation of the system and cause premature tarp and cable wear.

MAINTENANCE SCHEDULE

Perform the following procedures every 2 to 4 weeks:

1. Check cable tension.
2. Inspect area where cable attaches to cable tension scale for frayed cable and missing or loose clamps.
3. Inspect and clean cables. Replace frayed, cut, rusty or otherwise-damaged cables.
4. Check tarp length - make sure rear bow shank does not contact rear pulley.
5. Check alignment of rear bow.
6. Inspect tarp for tears, cuts or worn areas.
7. Check cable guard adjustment.
8. Inspect hardware to make sure all bolts and fasteners are tight.
9. Check chain tension.

Replace cables every 12 months.

OPERATING INSTRUCTIONS

To cover load:

1. Release crank from crank retainer or from locked position on chain drive.
2. Turn crank or handle in clockwise motion until tarp is completely to rear of vehicle.
3. Return crank to crank retainer or put crank in locked position on chain drive.

To uncover load:

1. Release crank from crank retainer or from locked position on chain drive.
2. Rotate crank or handle counter-clockwise until tarp is completely to front of vehicle.
3. Return crank to crank retainer or put crank in locked position on chain drive.

Cable Tension

- Cable tension is correct when pins are centered in slots on both cable tension scales.
- Adjust cable tension by turning cable tension scale clockwise to tighten or counter-clockwise to loosen.
- When adjusting cable tension, turn only scale; do not allow cable to turn.
- Do not over-tighten cables because this can bend front shaft, derail cable and/or break front assembly.

BOW ALIGNMENT

To check bow alignment: Crank cover open to front of box. Bow ends should be touching each other and should be tight against front of box.

To adjust: Loosen cable from rear bow shank on opposite side from bow which is out of alignment. Crank handle forward until all bows are touching. Re-tighten bow shank to cable, making sure not to over-tighten cable clamps.

TARP ADJUSTMENT LENGTH

To check tarp length, stretch tarp tight in closed position. If tarp is loose, or if last bow shank is touching rear pulley, shorten tarp to prevent premature tarp wear. To shorten tarp, loosen bolts holding tarp to front of box.

BOW & BOW SHANK REPLACEMENT

To remove damaged bow: Remove screws holding tarp to bow and bow shank. Remove screw holding bow to bow shank (on side of bow shank). Remove bow from bow shank.

To replace bow shank: Twist bow shank 90° and lift off cable. Install new bow shank by reversing process. Slide bow into bow shank and replace bolts holding tarp to bow and bow shank.

NOTE: Do not dump material from box while tarp is closed. Extensive damage to bows and/or tarp could occur. Always crank tarp to front of vehicle, in open position, before dumping material from box.

CHAIN DRIVE ADJUSTMENT

If chain is loose, tighten by loosening two bolts on handle bracket and tightening adjustment bolt at base of handle bracket until desired tension is reached. Re-tighten bolts on handle bracket.

SYSTEM OPERATION

To extend the life of your Shur-Trak II™ tarping system, keep cover closed at all times except when loading or unloading. Lock handle and store in crank retainer or lock handle on chain drive to keep tension on tarp.

TROUBLE-SHOOTING GUIDE

If tarp system will not move when cranked:

1. Are cables are too loose?
2. Are side boards obstructed?
3. If you have an electrical unit, is bolt in head shaft sheared?
4. If you have an optional chain drive, is chain too loose?

If cables are breaking:

1. Is rear bow shank contacting rear pulley? If so, stress and cable wear may cause cable to fray.
2. Are cables too loose? Loose cables can hit side of box and cause cable to fray.
3. Is rear bow shank holding pin pushed into cable because of over tightening? Cable could fray at point of contact.

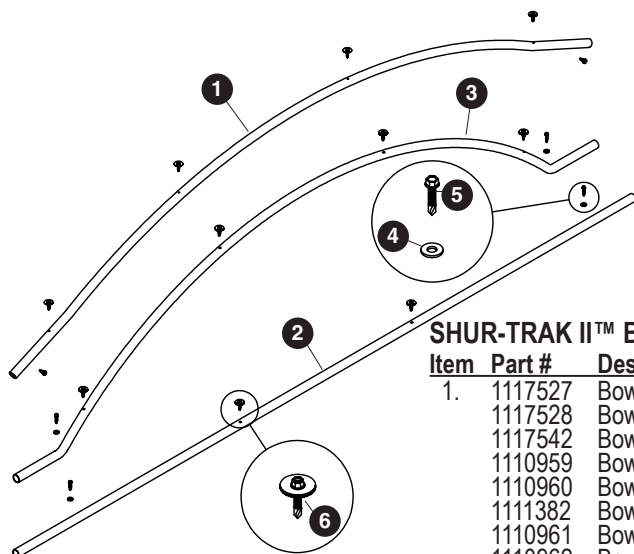
If system is hard to crank:

1. Are cables too tight?
2. Are cables more than 1" below top rail or riding surface?
3. Are cables dirty?
4. Are sideboards damaged so bow shanks do not have a smooth surface to ride on?
5. Is windguard catching, misaligning bows?

If bow shanks are breaking:

1. Check cable height. Cables more than 1" too low or too high create excessive wear on bow shank.
2. Check bows for equal width. Inconsistent bow widths force cables to run through bow shanks less smoothly, resulting in excessive wear on bow shanks. To adjust bow width, remove screw from bow shank, align hole in bow with correct hole in bow shank and replace screw.

REPLACEMENT PARTS



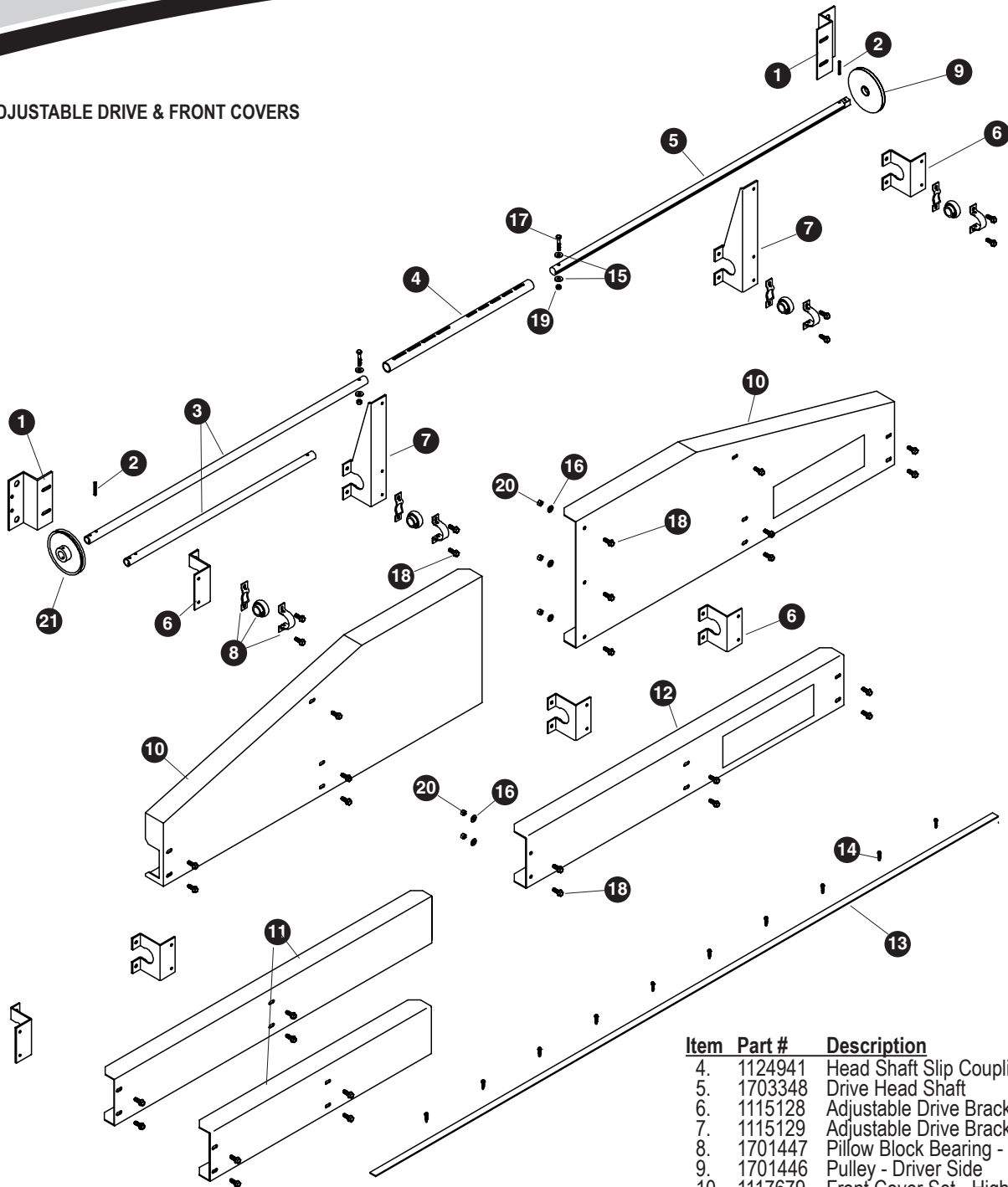
SHUR-TRAK II™ BOW ASSEMBLIES

Item	Part #	Description
1.	1117527	Bow Kit - 12" Rise - 72" to 78"
	1117528	Bow Kit - 12" Rise - 78" to 84"
	1117542	Bow Kit - 12" Rise - 84" to 90"
	1110959	Bow Kit - 12" Rise - 90" to 96"
	1110960	Bow Kit - 12" Rise - 96" to 102"
	1111382	Bow Kit - 12" Rise - 102" to 104"
	1110961	Bow Kit - 16" Rise - 90" to 96"
	1110962	Bow Kit - 16" Rise - 96" to 102"
	1111381	Bow Kit - 16" Rise - 102" to 104"

SHORTSTOP™ BOW ASSEMBLIES

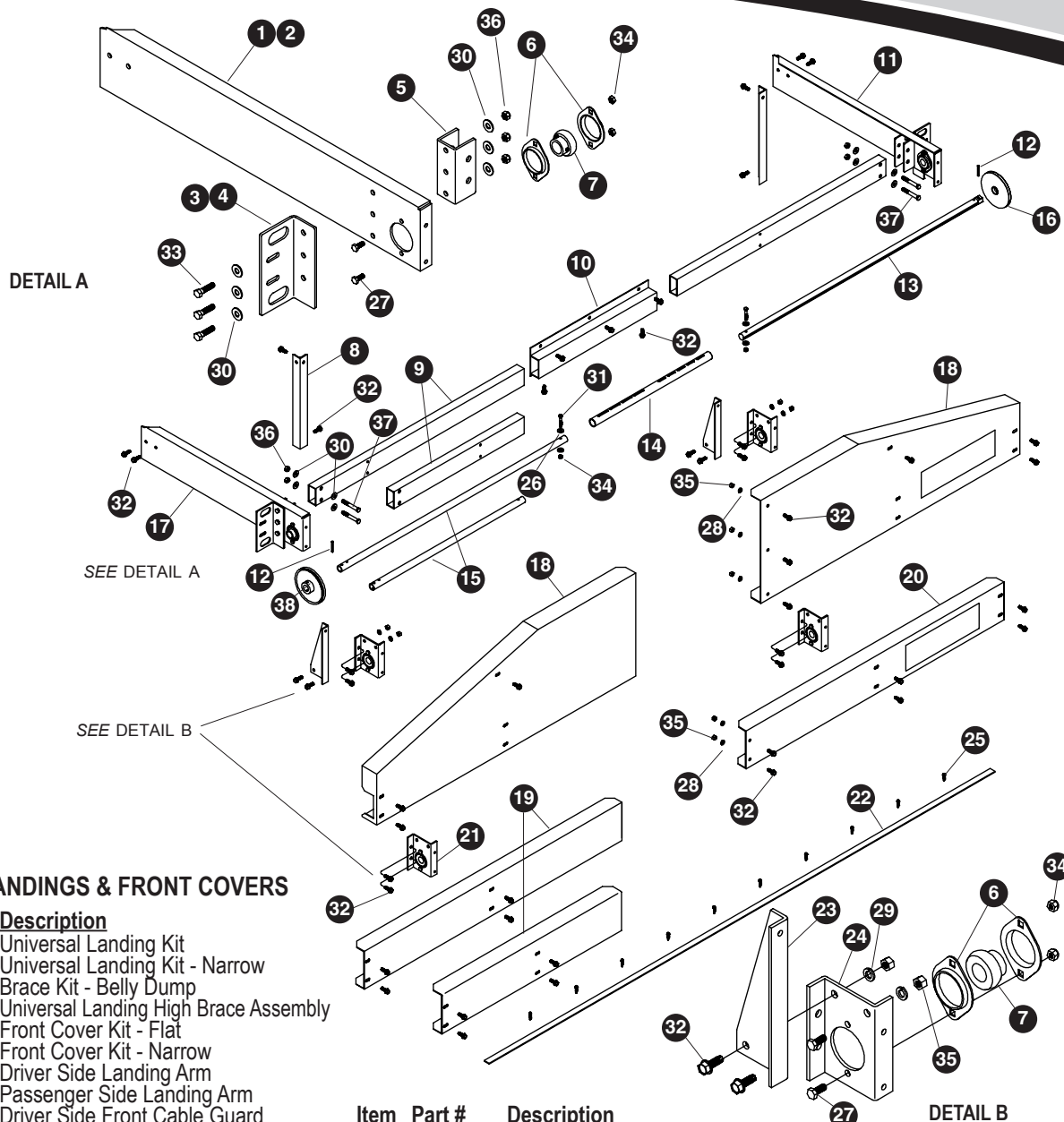
Item	Part #	Description
2.	1117540	Bow Kit - 72" to 78" - Flat
	1117534	Bow Kit - 79" to 85" - Flat
	1116089	Bow Kit - 92" - Flat
	1116093	Bow Kit - 96" - Flat
	1116097	Bow Kit - 102" - Flat
3.	1117536	Bow Kit - 72" to 78" - 6" Rise
	1117530	Bow Kit - 79" to 85" - 6" Rise
	1116086	Bow Kit - 92" - 6" Rise
	1116090	Bow Kit - 96" - 6" Rise
	1116094	Bow Kit - 102" - 6" Rise
	1117538	Bow Kit - 72" to 78" - 12" Rise
	1117532	Bow Kit - 79" to 85" - 12" Rise
	1116087	Bow Kit - 92" - 12" Rise
	1116091	Bow Kit - 96" - 12" Rise
	1116095	Bow Kit - 102" - 12" Rise
	1116088	Bow Kit - 92" - 18" Rise
	1116092	Bow Kit - 96" - 18" Rise
	1116096	Bow Kit - 102" - 18" Rise
Hardware		
4.	1700427	Flat Washer - 1/4"
5.	1701471	Self-Drilling Screw - #12 x 1"
6.	1701520	Screw/Rubber Washer Set - 3/4"

ADJUSTABLE DRIVE & FRONT COVERS



Item	Part #	Description
	1115144	Adjustable Drive Kit
	1117551	Adjustable Drive Kit - Narrow
	1115147	Front Cover Kit - Flat
	1117555	Front Cover Kit - Flat - Narrow
	1115141	Front Cover Brace Kit - 12" Rise
	1115142	Front Cover Brace Kit - Flat
1.	1107991	Adjustable Drive Cable Guard
2.	1701360	Spring Pin - 1/4" x 1 3/4"
3.	1107974	Driven Head Shaft
	1117520	Driven Head Shaft - Narrow

Item	Part #	Description
4.	1124941	Head Shaft Slip Coupling
5.	1703348	Drive Head Shaft
6.	1115128	Adjustable Drive Bracket - Short
7.	1115129	Adjustable Drive Bracket - Tall
8.	1701447	Pillow Block Bearing - 1"
9.	1701446	Pulley - Driver Side
10.	1117679	Front Cover Set - High Rise
11.	1115064	Pass. Side Front Cover - Flat
	1117549	Pass. Side Front Cover - Flat - Narrow
12.	1115124	Driver Side Front Cover - Flat
13.	1700581	Aluminum Flat Bar - 103"
14.	1701471	Self-Drilling Screw - #12 x 1"
15.	1700428	Flat Washer - 5/16"
16.	1700429	Flat Washer - 3/8"
17.	1701468	Cap Screw - 5/16" x 1 3/4"
18.	1700400	Self-Tapping Screw - 3/8" x 1"
19.	1700419	Nylon Lock Nut - 5/16"
20.	1700407	Hex Nut - 3/8"
21.	1705323	Pulley - Passenger Side



UNIVERSAL LANDINGS & FRONT COVERS

Item	Part #	Description
	1115143	Universal Landing Kit
	1117522	Universal Landing Kit - Narrow
	1108055	Brace Kit - Belly Dump
	1115140	Universal Landing High Brace Assembly
	1115147	Front Cover Kit - Flat
	1117555	Front Cover Kit - Narrow
1.	1115048	Driver Side Landing Arm
2.	1115049	Passenger Side Landing Arm
3.	1115053	Driver Side Front Cable Guard
4.	1115054	Passenger Side Front Cable Guard
5.	1115051	Landing Cross Tube Channel
6.	1701054	Bearing Flange
7.	1705450	Radial Ball Bearing
8.	1108047	Landing Brace
9.	1115050	Landing Cross Tube
	1117519	Landing Cross Tube - Narrow
10.	1115065	Center Landing
11.	1115055	Driver Side Landing Arm Assembly
12.	1701360	Spring Pin - 1/4" x 1 3/4"
13.	1703348	Drive Head Shaft
14.	1124941	Head Shaft Slip Coupling
15.	1107974	Driven Head Shaft
	1117520	Driven Head Shaft -Narrow
16.	1701446	Pulley - Driver Side
17.	1115056	Passenger Side Landing Arm Assembly
18.	1117679	Front Cover Set - High Rise
19.	1115064	Passenger Side Front Cover - Flat
	1117549	Passenger Side Front Cover - Narrow

Item	Part #	Description
20.	1115124	Driver Side Front Cover - Flat
21.	1115132	Universal Landing - Short Brace Assembly
22.	1700581	Aluminum Flat Bar - 103"
23.	1115059	Universal Landing - 12" Rise Brace
24.	1115057	Universal Landing - Short Brace
25.	1701471	Self-Drilling Screw - #12 x 1"
26.	1700428	Flat Washer - 5/16"
27.	1701045	Cap Screw - 5/16" x 3/4"
28.	1700429	Flat Washer - 3/8"
29.	1700434	Lock Washer - 3/8"
30.	1701176	Flat Washer - 3/8"
31.	1701468	Cap Screw - 5/16" x 1 3/4"
32.	1700400	Self-Tapping Screw - 3/8" x 1"
33.	1701434	Cap Screw - 3/8" x 1 1/2"
34.	1700419	Nylon Lock Nut - 5/16"
35.	1700418	Centerlock Nut - 3/8"
36.	1701580	Nylon Lock Nut - 3/8"
37.	1700371	Cap Screw - 3/8" x 3"
38.	1705323	Pulley - Passenger Side

REAR PULLIES

Item	Part #	Description
	1110384	Rear Pulley Kit
	1110709	Extended Rear Pulley Kit
1.	1107957	Rear Pulley Mounting Bracket
2.	1109000	Extended Rear Pulley Bracket
3.	1701445	Pulley - 5 5/8"
4.	1107971	Rear Pulley Guard
5.	1700430	Flat Washer - 7/16"
6.	1700400	Self-Tapping Screw - 3/8" x 1"
7.	1700413	Jam Nut - 1/2"
8.	1701145	Nylon Lock Nut - 1/2"
9.	1701042	Cap Screw - 1/2" x 2"

ADJUSTABLE REAR PULLIES

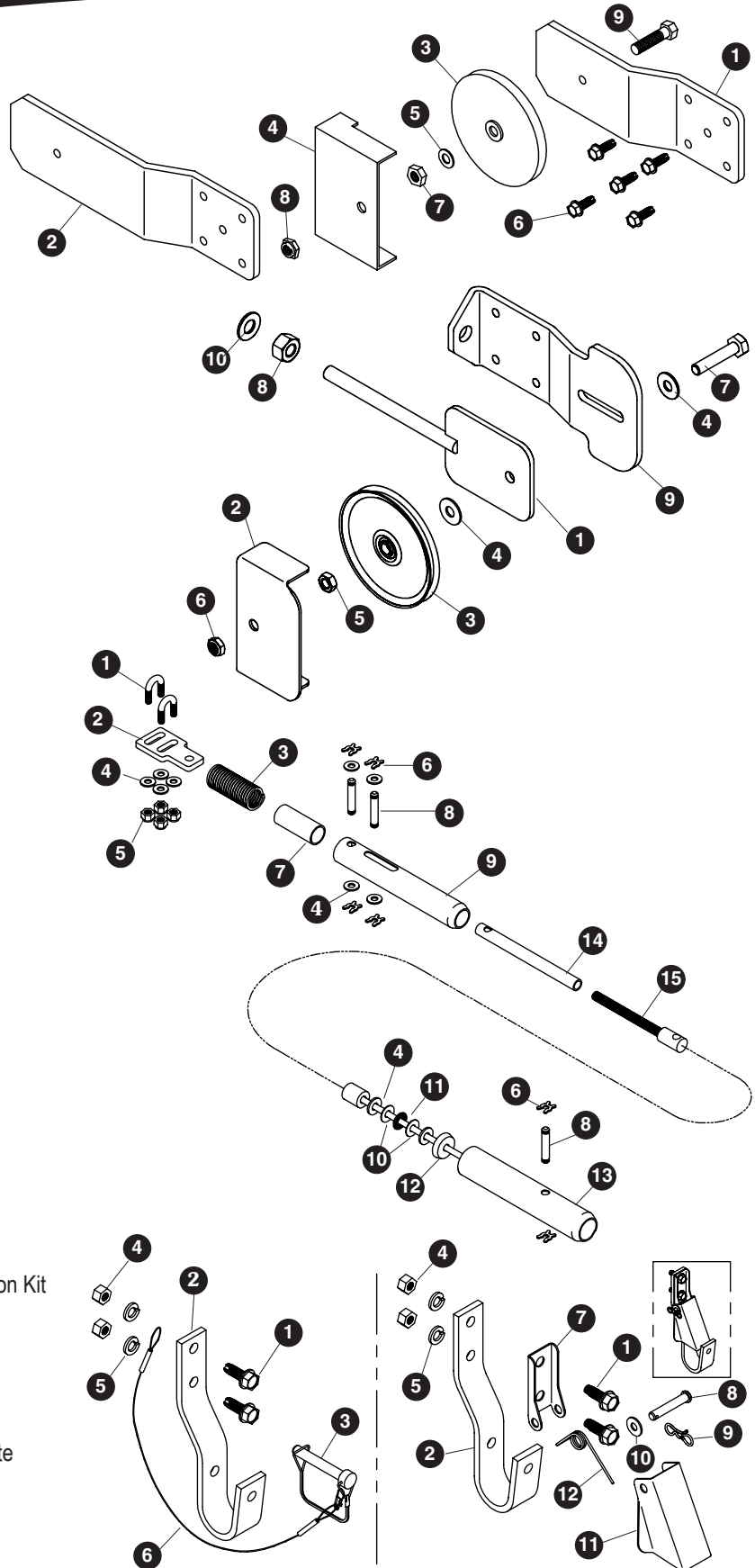
Item	Part #	Description
1.	1117245	Rear Pulley Take-Up Plate
2.	1117242	Adjustable Rear Pulley Guard
3.	1701445	Pulley - 5 5/8"
4.	1700430	Flat Washer - 7/16"
5.	1700413	Jam Nut - 1/2"
6.	1701145	Nylon Lock Nut - 1/2"
7.	1704041	Cap Screw - 1/2" x 2 1/2"
8.	1700410	Hex Nut - 5/8"
9.	1125911	Adjustable Rear Pulley Bracket
10.	1201342	Flat Washer - 5/8"

CABLE TENSION SCALES

Item	Part #	Description
	1107990	Cable Tension Scale Kit
	1114636	Tension Scale Replacement Hardware
1.	1701470	U-Bolt - 5/16"
2.	1107956	Cable Scale End
3.	1701444	Die Spring - 3"
4.	1700427	Flat Washer - 1/4"
5.	1700419	Nylon Lock Nut - 5/16"
6.	1701440	Crimp Ring Retainer - 5/16"
7.	1107948	Spring Housing Stop
8.	1701442	Headless Pin - 5/16"
9.	1107947	Scale Spring Housing
10.	1703278	Thrust Washer
11.	1703277	Thrust Bearing
12.	1107952	Outer Housing Washer
13.	1107951	Tension Scale Outer Housing
14.	1107949	Scale Spring Guide
15.	1107953	Scale Adjustment Rod

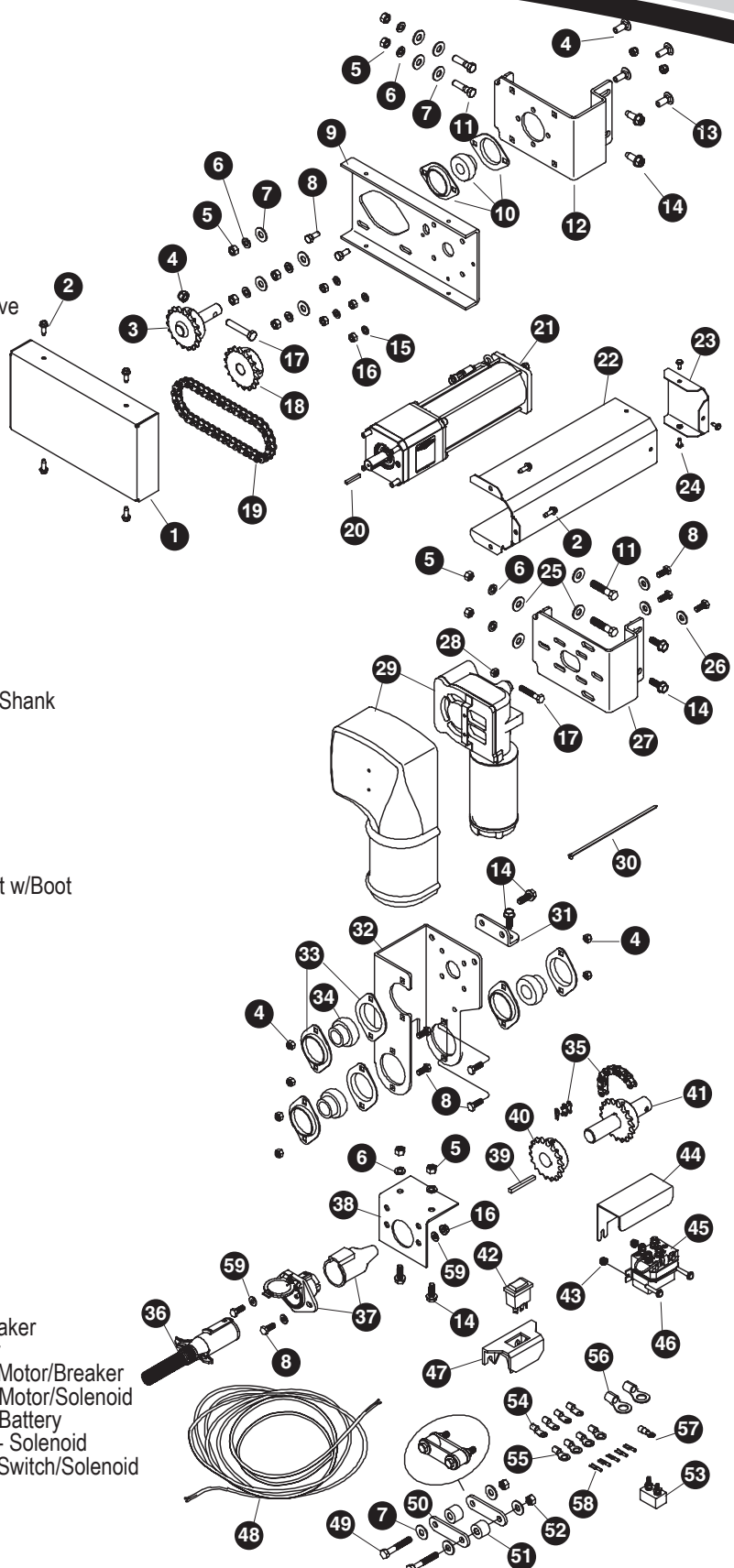
CRANK RETAINERS

Item	Part #	Description
	1101929	Offset Crank Retainer Kit
	1114603	Offset Pinless Crank Retainer Kit
	1114602	Offset Pinless Crank Retainer Conversion Kit
1.	1700400	Self-Tapping Screw - 3/8" x 1"
2.	1101930	Offset Crank Retainer J-Hook
3.	1700526	Wire Lock Pin - 3/8"
4.	1700407	Hex Nut - 3/8"
5.	1700434	Lock Washer - 3/8"
6.	1100574	Cable w/#5 Interlock Snap
7.	1114599	Offset Pinless Crank Retainer Base Plate
8.	1703133	Clevis Pin - 5/16" x 1 3/4"
9.	1704380	Bowtie Cotter Pin - 1 3/8"
10.	1700427	Flat Washer - 1/4"
11.	1114600	Offset Pinless Crank Retainer Lock
12.	1703134	Torsion Spring



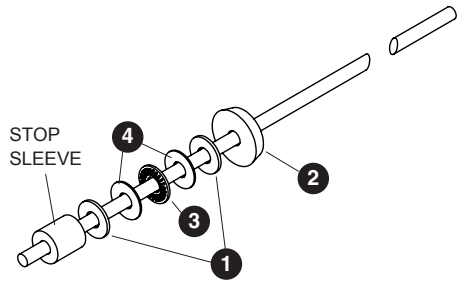
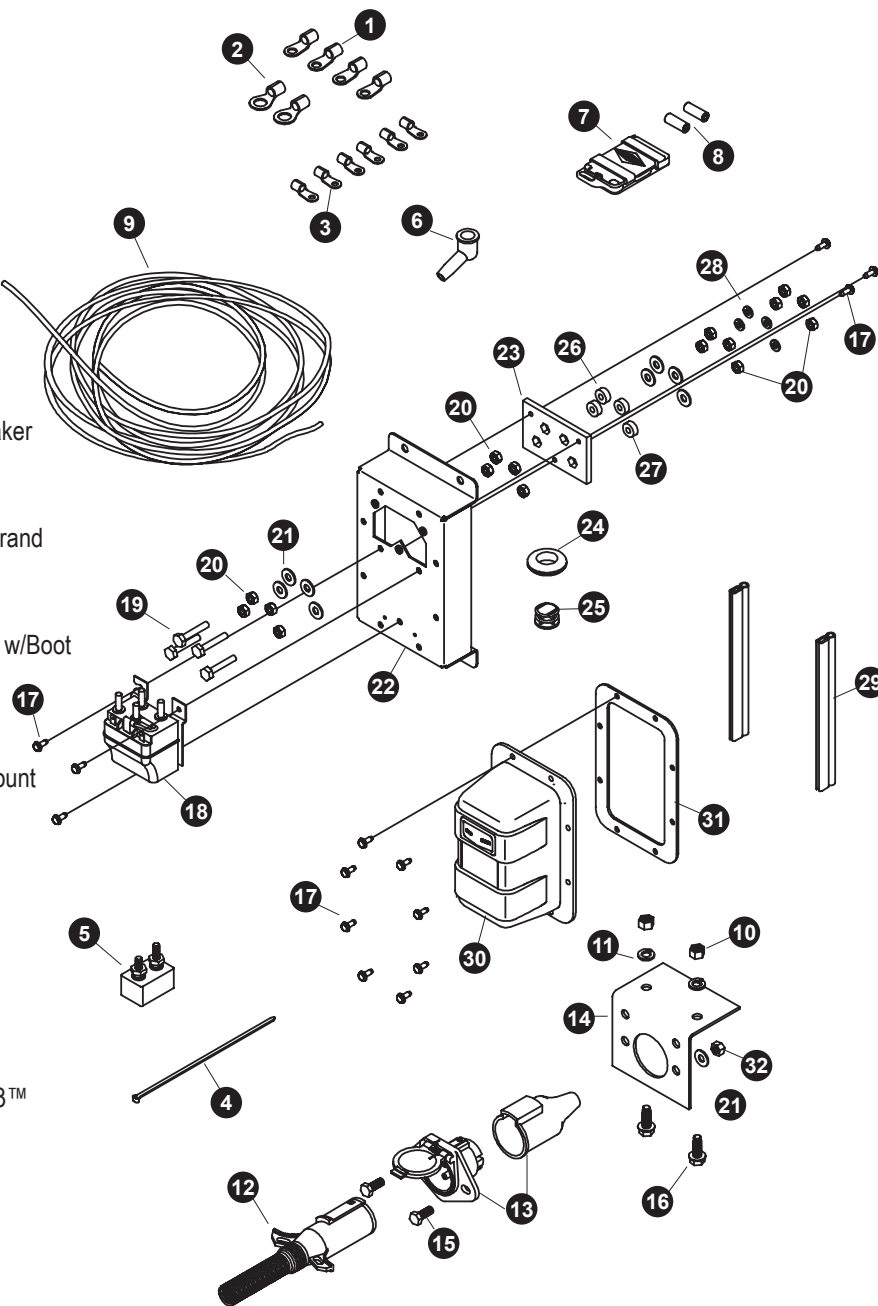
ELECTRIC MOTOR OPTIONS

Item	Part #	Description
1.	1122382	Chain Drive Cover
2.	1700403	Self-Tapping Screw - 1/4" x 3/4"
3.	1122379	Chain Drive Adapter Shaft
4.	1700419	Nylon Lock Nut - 5/16"
5.	1700407	Hex Nut - 3/8"
6.	1700434	Lock Washer - 3/8"
7.	1700429	Flat Washer - 3/8"
8.	1701045	Cap Screw - 5/16" x 3/4"
9.	1122381	Side Mount Adjustable Bracket
10.	1703374	Radial Ball Bearing w/Flanges
11.	1701434	Cap Screw - 3/8" x 1 1/2"
12.	1122380	Side Mount Bracket - HD Chain Drive
13.	1705051	Carriage Bolt - 3/8" x 1"
14.	1700400	Self-Tapping Screw - 3/8" x 1"
15.	1700433	Lock Washer - 5/16"
16.	1704946	Flanged Top Lock Nut - 5/16"
17.	1701468	Cap Screw - 5/16" x 1 3/4"
18.	1122377	Sprocket - 18 Tooth - 3/4" Bore
19.	1122385	Roller Chain Assembly
20.	1120762	Square Key - 3/16" x 3/16" x 1 1/4"
21.	1122442	Motor - Shur-Trak II™ HD
22.	1122383	Motor Cover - HD Chain Drive
23.	1122384	Motor Cover End Cap
24.	1704308	Flanged Cap Screw - #10 x 1/2"
25.	1701176	Flat Washer - 3/8" SAE
26.	1700428	Flat Washer - 5/16"
27.	1117518	Side Mount Motor Mount Plate
28.	1702492	Top Lock Nut - 5/16"
29.	1121307	Durabuilt™ Motor w/Cover - 2 1/8" Shank
30.	1703231	Cable Tie - 8"
31.	1115369	Motor Mount Clip
32.	1115368	Motor Mount Bracket - Undercover
33.	1701054	Bearing Flange - 52MM - 2 Bolt
34.	1705450	Radial Ball Bearing
35.	1115383	Roller Chain Assembly - 21 1/2"
36.	1115385	Heavy-Duty Dual-Conductor Plug
37.	1119557	Heavy-Duty Dual-Conductor Socket w/Boot
38.	1109015	Dual-Conductor Mounting Bracket
39.	1701056	Square Key - 1/4" x 1/4" x 1 3/8"
40.	1106619	Sprocket - 18 Tooth - 1" Bore
41.	1115892	Sprocket - 18 Tooth - 3/4" Bore
42.	1116020	Rocker Switch
43.	1808844	Nylon Lock Nut - #10
44.	1703896	Solenoid Cover
45.	1703845	Motor-Reversing Solenoid
46.	1704905	Flanged Cap Screw - #10 x 1"
47.	1703661	Rocker Switch Mounting Bracket
48.	1110312	Dual Conductor - 6-Ga. Wire - 50'
	1108102	Dual Conductor - 6-Ga. Wire - 75'
	1108101	Dual Conductor - 6-Ga. Wire - 100'
	1116482	Electric Wire - 14-Ga. Lead - 15'
49.	1704057	Cap Screw - 3/8" x 2"
50.	1115034	Chain Tightener Bar
51.	1115035	Chain Tightener Roller
52.	1701580	Nylon Lock Nut - 3/8"
53.	1704354	40-Amp Modified-Reset Circuit Breaker
	1703480	50-Amp Auto-Reset Circuit Breaker
54.	1703245	Ring Terminal - 6-Ga. x #10 Stud - Motor/Breaker
55.	1702707	Ring Terminal - 6-Ga. x 1/4" Stud - Motor/Solenoid
56.	1703244	Ring Terminal - 6-Ga. x 3/8" Stud - Battery
57.	1704153	Ring Terminal - 14-Ga. x 1/4" Stud - Solenoid
58.	1703659	Push-On Terminal - 14-Ga. - 1/4" - Switch/Solenoid
59.	1700427	Flat Washer - 1/4"



WIRELESS RECEIVERS

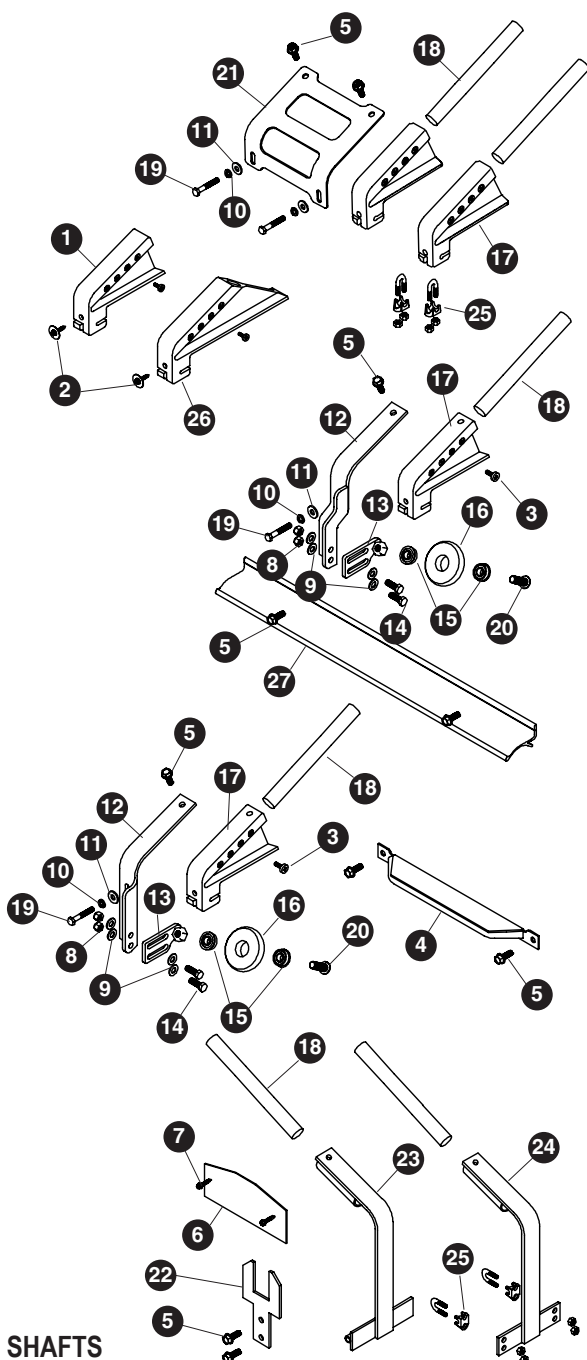
Item	Part #	Description
	1109016	Dual-Pole Conductor w/Hardware
1.	1703245	Ring-Terminal - 6 Ga. x #10 Stud - Motor/Breaker
2.	1703244	Ring Terminal - 6 Ga. x 3/8" Stud - Battery
3.	1702707	Ring Terminal - 6 Ga. x 1/4" Stud - Motor/Solenoid
4.	1703231	Cable Tie - 8"
5.	1703480	50-Amp Auto-Reset Circuit Breaker
	1704354	40-Amp Modified-Reset Circuit Breaker
6.	1704330	Rubber Boot
7.	1126867	5-Channel SMART3™ Remote
8.	1705163	Battery - AAA - SMART3™ Remote
9.	1703822	Dual-Conductor Wire - 6-Ga. 259 Strand
10.	1700407	Hex Nut - 3/8"
11.	1700434	Lock Washer - 3/8"
12.	1115385	Heavy-Duty Dual-Conductor Plug
13.	1119557	Heavy-Duty Dual-Conductor Socket w/Boot
14.	1109015	Mounting Bracket
15.	1701045	Cap Screw - 5/16" x 3/4"
16.	1700400	Self-Tapping Screw - 3/8" x 1"
17.	1704308	Cap Screw - #10 x 1/2"
18.	1704312	Motor-Reversing Solenoid - 3 Pt, Mount
19.	1704343	Cap Screw - 1/4" x 1 1/2"
20.	1700408	Hex Nut - 1/4"
21.	1700427	Flat Washer - 1/4"
22.	1118296	Modular Control Bracket
23.	1118297	Insulating Plate
24.	1703282	Rubber Grommet - 1 1/4"
25.	1701595	End Plug - 1"
26.	1118037	Plastic Washer - Black
27.	1118250	Plastic Washer - Orange
28.	1700436	Lock Washer - 1/4"
29.	1704369	Trim Seal (per foot)
30.	1126886	Solenoid Cover w/Gasket - SMART3™
31.	1704309	Solenoid Cover Gasket
32.	1704946	Flanged Nut - 5/15"



Item	Part #	Description
	1114636	Tension Scale Replacement Hdw.
1.	1700427	Flat Washer - 1/4"
2.	1107952	Outer Housing Washer
3.	1703277	Thrust Bearing
4.	1703278	Thrust Washer

CABLE ASSEMBLIES

Galvanized Steel Cables		Stainless Steel Cables	
1108022	GS Cable - 29' 4" - 4 Bows	1110442	SS Cable - 29' 4" - 4 Bows
1108023	GS Cable - 35' 2" - 5 Bows	1110443	SS Cable - 35' 2" - 5 Bows
1108024	GS Cable - 41' - 6 Bows	1110444	SS Cable - 41' - 6 Bows
1108025	GS Cable - 46' 10" - 7 Bows	1110445	SS Cable - 46' 10" - 7 Bows
1108026	GS Cable - 52' 8" - 8 Bows	1110446	SS Cable - 52' 8" - 8 Bows
1108027	GS Cable - 58' 6" - 9 Bows	1110447	SS Cable - 58' 6" - 9 Bows
1108028	GS Cable - 64' 4" - 10 Bows	1110448	SS Cable - 64' 4" - 10 Bows
1108029	GS Cable - 70' 2" - 11 Bows	1110449	SS Cable - 70' 2" - 11 Bows
1108030	GS Cable - 76' - 12 Bows	1110450	SS Cable - 76' - 12 Bows
1108031	GS Cable - 81' 10" - 13 Bows	1110451	SS Cable - 81' 10" - 13 Bows
1108032	GS Cable - 87' 8" - 14 Bows	1110452	SS Cable - 87' 8" - 14 Bows
1108033	GS Cable - 93' 6" - 15 Bows	1110453	SS Cable - 93' 6" - 15 Bows
1108034	GS Cable - 99' 4" - 16 Bows	1110454	SS Cable - 99' 4" - 16 Bows
1108035	GS Cable - 105' 2" - 17 Bows	1110455	SS Cable - 105' 2" - 17 Bows

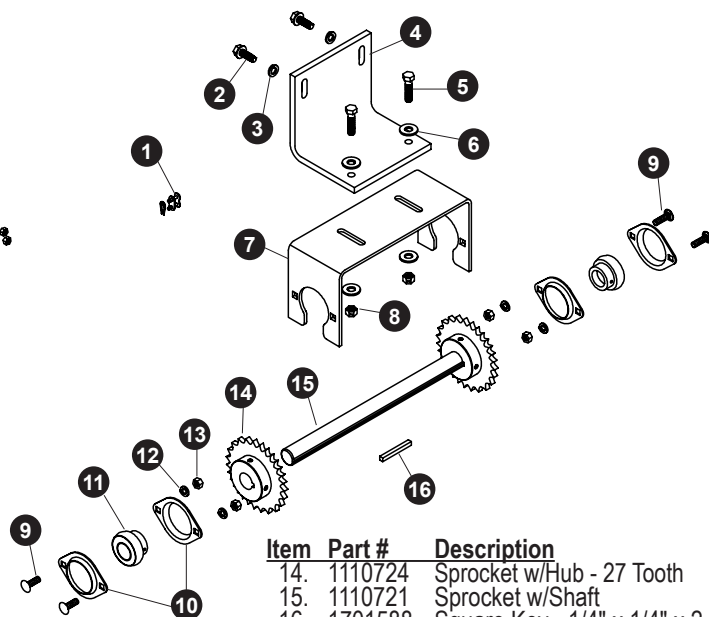


BOW SHANKS

Item	Part #	Description
	1116898	Rear Bow Stabilizer Shank Kit
	1113879	Twist-Lok™ Windguard Shank Kit
	1114027	Twist-Lok™ Intermediate Shank Kit
	1114707	Twist-Lok™ Extended Windguard Shank Kit
	1114710	Twist-Lok™ Extended Intermediate Shank Kit
	1115563	Twist-Lok™ Windguard/Shank Kit
	1115564	Twist-Lok™ Extended Windguard/Shank Kit
	1111599	Fixed Rear High Lift Kit
	1111598	Intermediate High Lift Kit
	1110387	Front Bow Stop Kit
	1110395	Bridge Plate Kit
	1115562	Windguard Kit
	1117556	Continuous Windguard Kit
1.	1113324	Twist-Lok™ Shank
2.	1701520	Screw/Washer - #12 x 3/4"
3.	1700398	Self-Drilling Screw - 1/4" x 3/4"
4.	1115367	Windguard Anchor
5.	1700400	Self-Tapping Screw - 3/8" x 1"
6.	1108080	Bridge Plate
7.	1701471	Self-Drilling Screw - #12 x 1"
8.	1701580	Nylon Lock Nut - 3/8"
9.	1701176	Flat Washer - 3/8"
10.	1700433	Lock Washer - 5/16"
11.	1700428	Flat Washer - 5/16"
12.	1115094	Windguard Arm
	1117202	Windguard Arm - Offset
13.	1115095	Windguard Adjustment Plate
14.	1702891	Cap Screw - 3/8" x 1 1/4"
15.	1702627	Flange Bearing - 1 1/8" OD x 1/2" Bore
16.	1703279	Windguard Wheel
17.	1113876	Twist-Lok™ Windguard Bow Shank
18.	1107973	Bow Reinforcement Tube
19.	1701420	Cap Screw - 5/16" x 2"
20.	1703444	Button Head Cap Screw - 1/2" x 1 1/2"
21.	1116881	Rear Bow Stabilizer Bracket
22.	1109151	Bow Stop
23.	1111576	Intermediate High Lift Weldment
24.	1111575	Fixed Rear High Lift Weldment
25.	1701441	Cable Clip - 1/4"
26.	1113325	Twist-Lok™ Extended Intermediate Bow Shank
	1114712	Twist-Lok™ Extended Windguard Bow Shank
27.	1100749	Aluminum Side Mount Latchplate - 4'
	1700802	Aluminum Side Mount Latchplate - 6'

JACK SHAFTS

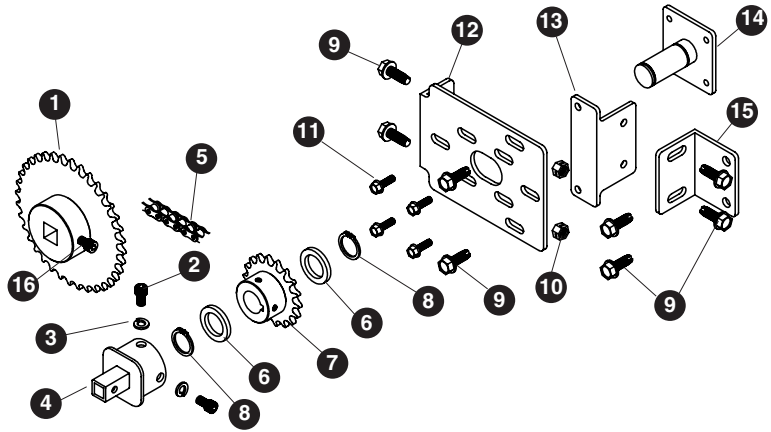
Item	Part #	Description
	1110733	Jack Shaft Kit
1.	1701057	Chain Link Connector
2.	1700400	Self-Tapping Screw - 3/8" x 1"
3.	1700434	Lock Washer - 3/8"
4.	1110719	Jack Shaft Bracket
5.	1701434	Cap Screw - 3/8" x 1 1/2"
6.	1700429	Flat Washer - 3/8"
7.	1110720	Shaft Base Plate Bracket
8.	1700418	Centerlock Nut - 3/8"
9.	1701522	Carriage Bolt - 5/16" x 1"
10.	1701054	Bearing Flange
11.	1705450	Radial Ball Bearing
12.	1700433	Lock Washer - 5/16"
13.	1700411	Hex Nut - 5/16"



Item	Part #	Description
14.	1110724	Sprocket w/Hub - 27 Tooth
15.	1110721	Sprocket w/Shaft
16.	1701588	Square Key - 1/4" x 1/4" x 2 1/4"

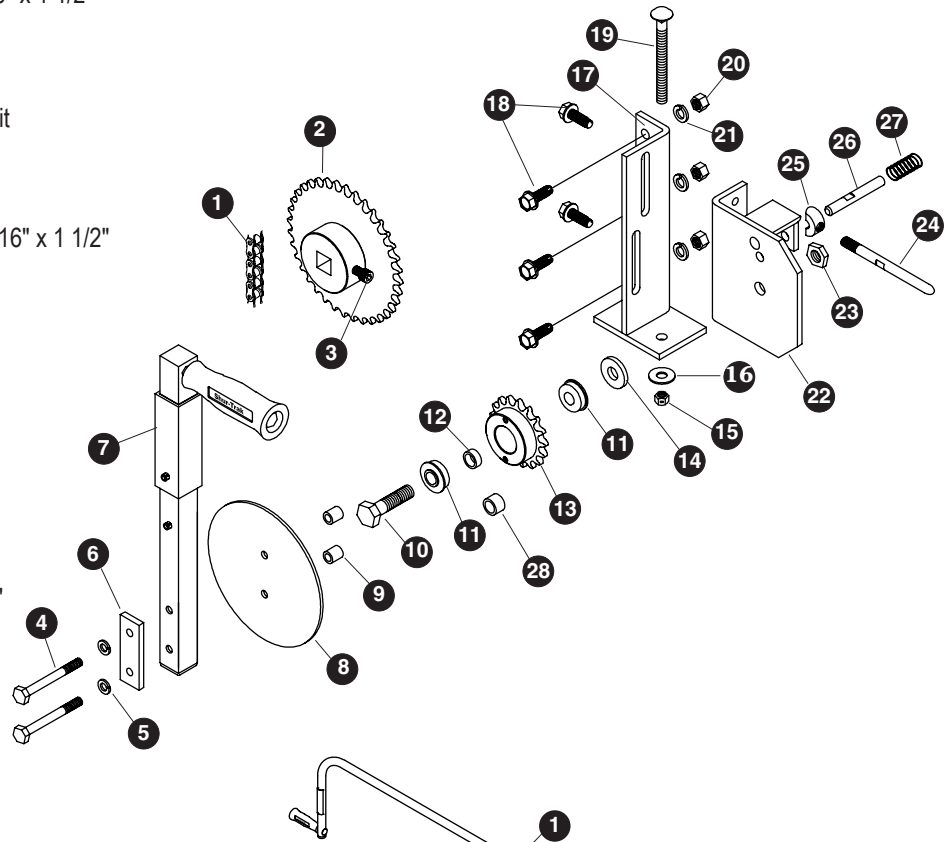
CRANK REDUCERS

Item	Part #	Description
	1108119	Crank Reducer Kit
1	1701515	Sprocket w/Hub - 36 Tooth
2	1701407	Socket Head Cap Screw - 5/16" x 1/2"
3	1700433	Lock Washer - 5/16"
4	1108128	Crank Reducer Collar
5	1108132	Roller Chain - 32"
6	1106453	Spacer Washer
7	1108130	Sprocket w/Collar
8	1701060	External Retaining Ring - 1"
9	1700400	Self-Tapping Screw - 3/8 x 1"
10	1700418	Centerlock Nut - 3/8"
11	1701059	Self-Tapping Screw - 5/16 x 1"
12	1108089	Universal Motor Mount Plate
13	1108122	Crank Reducer Adjustment Plate
14	1108125	Crank Reducer Shaft
15	1108121	Crank Reducer Base Plate
16	1701493	Socket Hd. Cap Screw - 5/16" x 1 1/2"



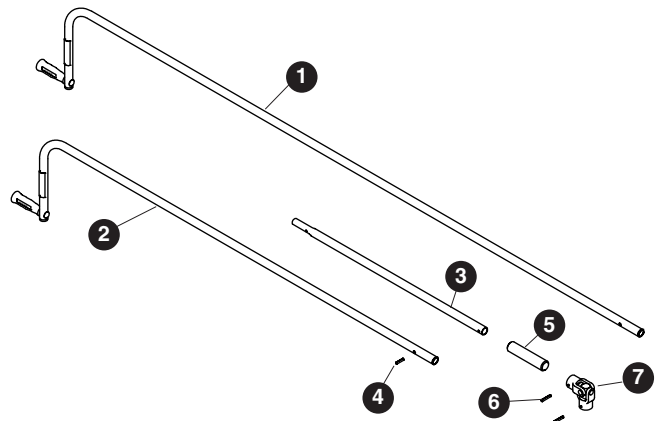
MANUAL DRIVE CRANKS

Item	Part #	Description
	1108960	Manual Chain Crank Drive Kit
	1110654	Sprocket Kit w/Bearings
	1110646	Pulley Kit w/Bearings
1.	1109179	Roller Chain/Link - 14'
2.	1701515	Sprocket w/Hub - 36 Tooth
3.	1701493	Socket Head Cap Screw - 5/16" x 1 1/2"
4.	1702629	Cap Screw - 5/16" x 3"
5.	1700433	Lock Washer - 5/16"
6.	1108909	Handle Stiffener
7.	1108929	Crank Handle
8.	1110159	Crank Guard
9.	1108917	Handle Spacer
10.	1701042	Cap Screw - 1/2" x 2"
11.	1702627	Flange Bearing
12.	1110648	Sprocket Spacer
13.	1110640	Sprocket
14.	1701269	Flat Washer - 1/2"
15.	1700418	Centerlock Nut - 3/8"
16.	1700429	Flat Washer - 3/8"
17.	1108924	Crank Mounting Bracket
18.	1700400	Self-Tapping Screw - 3/8 x 1"
19.	1702080	Carriage Bolt - 3/8" x 4"
20.	1700407	Hex Nut - 3/8"
21.	1700434	Lock Washer - 3/8"
22.	1108925	Crank Adjustable Bracket
23.	1701145	Nylon Lock Nut - 1/2"
24.	1108918	Manual Locking Pin
25.	1108921	Crank Cam Lobe
26.	1108919	Locking Pin - 3/8" x 2 13/16"
27.	1702084	Compression Spring - 1 1/4"
28.	1110649	Pulley Spacer



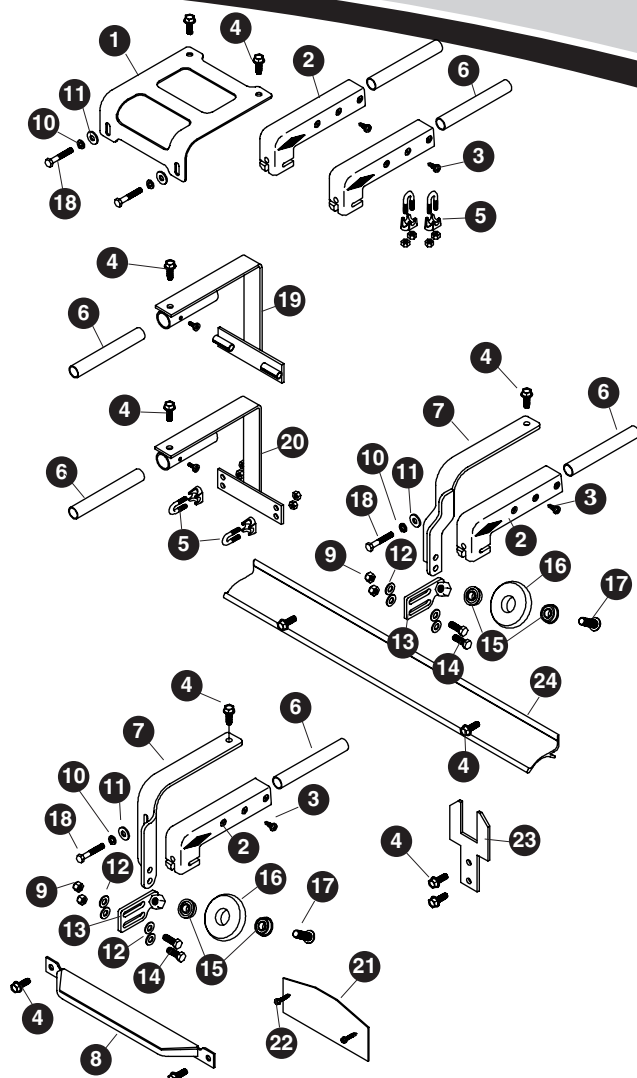
CRANK ARMS

Item	Part #	Description
	1107994	Crank Arm w/U-Joint - 83"
	1108063	Crank Arm w/U-Joint - 114"
1.	1111383	Crank Arm w/o U-Joint - 114"
2.	1107993	Crank Arm w/o U-Joint - 83"
3.	1107838	Square Crank Extension - 33"
4.	1701118	Spring Pin - 1/4" x 1 3/16"
5.	1107984	Slide Handle
6.	1700445	Spring Pin - 1/4" x 1 1/2"
7.	1700527	Econo U-Joint



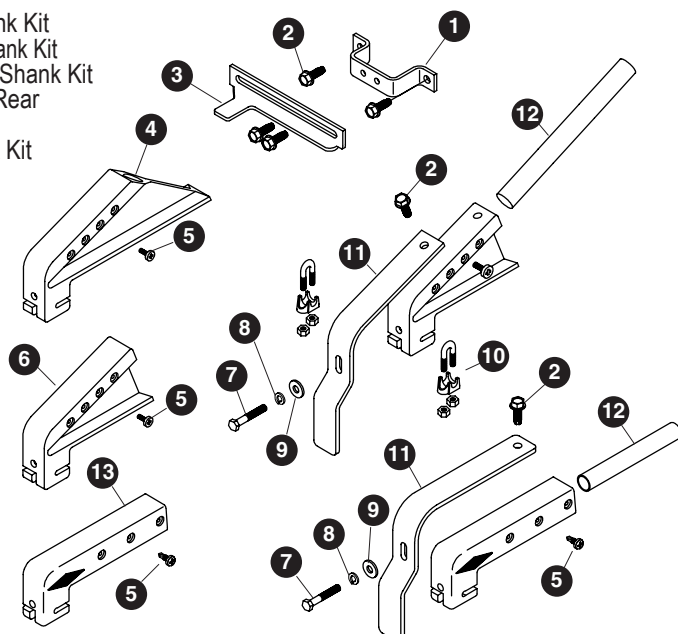
SHORT-STOP™ BOW SHANKS

Item	Part #	Description
	1116897	ShortStop™ Rear Bow Stabilizer Shank Kit
	1116156	ShortStop™ Windguard Kit
	1117557	ShortStop™ Continuous Windguard Kit
	1115932	Twist-Lok™ ShortStop™ Windguard/Shank Kit
	1116151	Twist-Lok™ ShortStop™ Intermediate Shank Kit
	1116152	Twist-Lok™ ShortStop™ Windguard/Shank Kit
	1115532	High-Lift Fixed Rear Shank Kit
	1115533	High-Lift Intermediate Shank Kit
	1110387	Front Bow Stop Kit
	1110395	Bridge Plate Kit
1.	1116880	Rear Bow Stabilizer Bracket
2.	1703486	Twist-Lok™ Short-Stop™ Bow Shank
3.	1700398	Self-Drilling Screw - 1/4" x 3/4"
4.	1700400	Self-Tapping Screw - 3/8" x 1"
5.	1701441	Cable Clamp
6.	1115490	Bow Reinforcement Tube
7.	1115928	Short Stop™ Windguard Arm
	1117515	Short Stop™ Windguard Arm - Offset
8.	1115367	Windguard Anchor
9.	1701580	Nylon Lock Nut - 3/8"
10.	1700433	Lock Washer - 5/16"
11.	1700428	Flat Washer - 5/16"
12.	1701176	Flat Washer - 3/8"
13.	1115095	Windguard Adjustment Plate
14.	1702891	Cap Screw - 3/8" x 1 1/4"
15.	1702627	Flange Bearing - 1 1/8" OD x 1/2" Bore
16.	1703279	Windguard Wheel
17.	1703444	Button Hd. Cap Screw - 1/2" x 1 1/2"
18.	1701420	Cap Screw - 5/16" x 2"
19.	1115475	ShortStop™ Intermediate High Lift Weldment
20.	1115476	ShortStop™ Rear High-Lift Weldment
21.	1108080	Bridge Plate
22.	1701471	Self-Drilling Screw - #12 x 1"
23.	1109151	Bow Stop
24.	1100749	Aluminum Side Mount Latchplate - 4'
	1700802	Aluminum Side Mount Latchplate - 6'



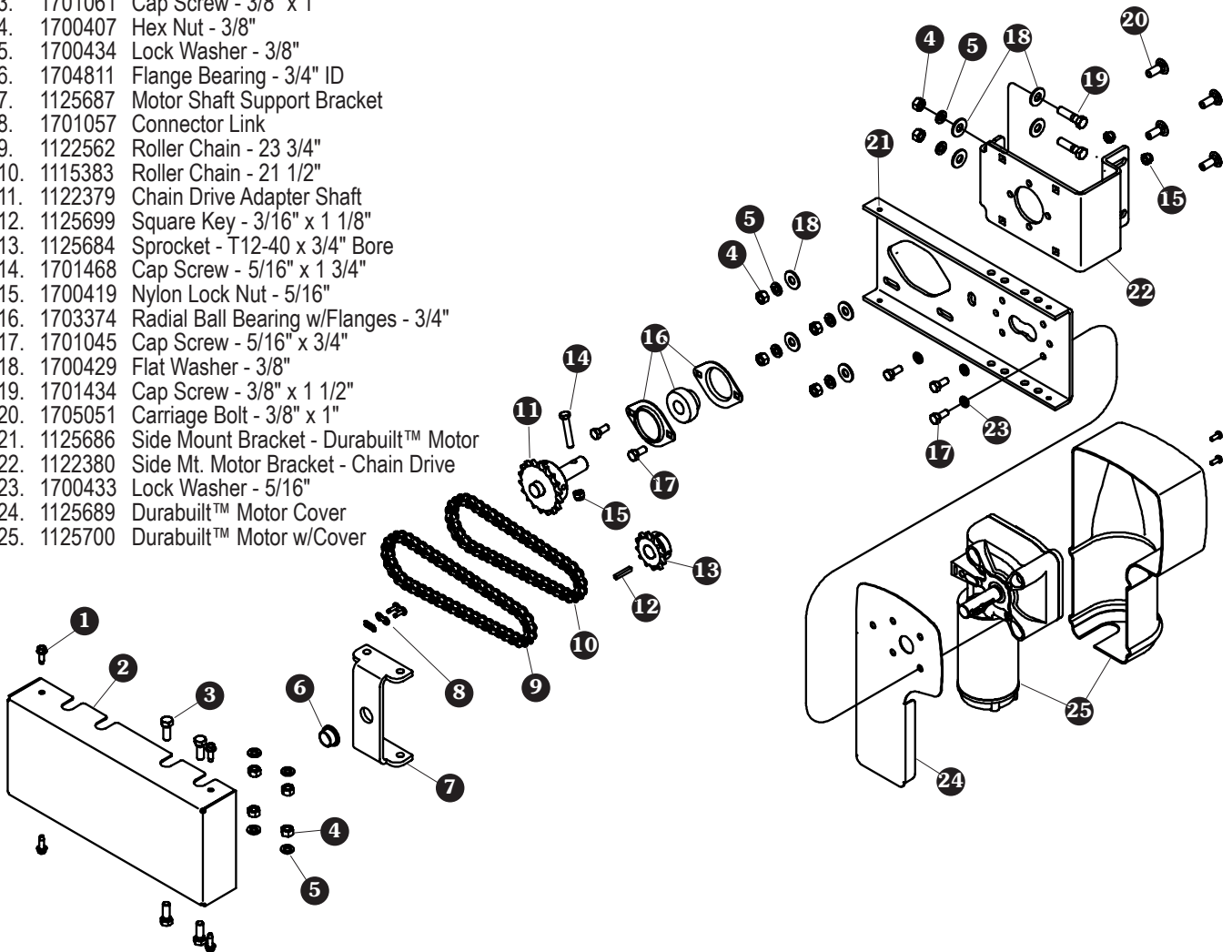
ADJUSTABLE BOW STOP SHANK KITS

Item	Part #	Description
	1116517	Shur-Trak II™ Driver Side Twist-Lok™ Fixed Rear Shank Kit
	1116518	Shur-Trak II™ Passenger Side Twist-Lok™ Fixed Rear Shank Kit
	1116519	Shur-Trak II™ Driver Side Twist-Lok™ Ext. Fixed Rear Shank Kit
	1116520	Shur-Trak II™ Passenger Side Twist-Lok™ Ext. Fixed Rear Shank Kit
	1116150	ShortStop™ Driver Side Twist-Lok™ Fixed Rear Shank Kit
	1115933	ShortStop™ Passenger Side Twist-Lok™ Fixed Rear Shank Kit
1.	1115929	Shur-Trak II™ ShortStop™ Bow Stop Bracket Mount
2.	1700400	Self-Tapping Screw - 3/8" x 1"
3.	1115934	Passenger Side Adjustable Bow Stop
	1115919	Driver Side Adjustable Bow Stop
4.	1114712	Shur-Trak II™ Extended Windguard Twist-Lok™ Bow Shank
5.	1700398	Self-Drilling Screw - 1/4" x 3/4"
6.	1113876	Shur-Trak II™ Windguard Twist-Lok™ Bow Shank
7.	1701420	Cap Screw - 5/16" x 2"
8.	1700433	Lock Washer - 5/16"
9.	1700428	Flat Washer - 5/16"
10.	1701441	Cable Clamp
11.	1116377	Shur-Trak II™ Fixed Shank Support Kit
	1115927	ShortStop™ Fixed Shank Support Kit
12.	1107973	Shur-Trak II™ Bow Reinforcement Tube
	1115490	ShortStop™ Bow Reinforcement Tube
13.	1703486	ShortStop™ Twist-Lok™ Bow Shank



DURABUILT™ ELECTRIC MOTOR

Item	Part #	Description
1.	1700403	Self-Tapping Screw - 1/4" x 3/4"
2.	1125688	Chain Drive Cover - Durabuilt
3.	1701061	Cap Screw - 3/8" x 1"
4.	1700407	Hex Nut - 3/8"
5.	1700434	Lock Washer - 3/8"
6.	1704811	Flange Bearing - 3/4" ID
7.	1125687	Motor Shaft Support Bracket
8.	1701057	Connector Link
9.	1122562	Roller Chain - 23 3/4"
10.	1115383	Roller Chain - 21 1/2"
11.	1122379	Chain Drive Adapter Shaft
12.	1125699	Square Key - 3/16" x 1 1/8"
13.	1125684	Sprocket - T12-40 x 3/4" Bore
14.	1701468	Cap Screw - 5/16" x 1 3/4"
15.	1700419	Nylon Lock Nut - 5/16"
16.	1703374	Radial Ball Bearing w/Flanges - 3/4"
17.	1701045	Cap Screw - 5/16" x 3/4"
18.	1700429	Flat Washer - 3/8"
19.	1701434	Cap Screw - 3/8" x 1 1/2"
20.	1705051	Carriage Bolt - 3/8" x 1"
21.	1125686	Side Mount Bracket - Durabuilt™ Motor
22.	1122380	Side Mt. Motor Bracket - Chain Drive
23.	1700433	Lock Washer - 5/16"
24.	1125689	Durabuilt™ Motor Cover
25.	1125700	Durabuilt™ Motor w/Cover



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

PROBLEM:	TRY THIS:
<p>The SMART3™ remote is not working.</p> <p>None of the lights on the remote turn on when I open the lid.</p>	<ol style="list-style-type: none"> 1. Make sure the battery is placed correctly. 2. The battery may be dead and must be replaced. Replacement high-capacity SMART3™ remote batteries may be purchased from Shur-Co® (P/N 1704597). 3. The SMART3™ remote may be damaged. Call Shur-Co's Help Line.
<p>The SMART3™ remote is not working.</p> <p>I can operate the system with the rocker switch but not with the remote. The SMART3™ remote channel light (<i>Tarp System</i>, for example) is blinking and when I press the <i>Open/On</i> button, the light blinks faster.</p>	<ol style="list-style-type: none"> 1. Make sure the remote is set to the right channel. If you cannot set the remote to the desired channel (<i>Tarp System</i>, for example), the remote must be reprogrammed. See the SMART3™ remote programming instructions. 2. Make sure you are within a couple feet of the receiver and try again. <ol style="list-style-type: none"> a) If it works at short range but not at greater distances, you have a range problem. A new battery may be needed. If the remote battery is not the cause, call Shur-Co's Help Line. 3. Reprogram the receiver. See the receiver programming instructions. If this doesn't work, call Shur-Co's Help Line.
<p>The system will not operate with the rocker switch or with the SMART3™ remote.</p> <p>When I try to use the rocker switch or SMART3™ remote, I don't hear any noises (a clicking noise, for example) from the receiver.</p>	<ol style="list-style-type: none"> 1. Make sure the master disconnect switch is turned to the "ON" position. 2. The circuit breaker may have tripped. Wait one minute and try again. 3. Check the vehicle's battery to make sure it isn't dead. 4. Check all connections from the battery to the system. Check for polarity, good connections and corrosion. Verify that you have at least 12V on the back side of the receiver on the battery hookup posts. 5. Call Shur-Co's Help Line.
<p>The system will not operate with the rocker switch or with the SMART3™ remote.</p> <p>When I try to use the rocker switch or SMART3™ remote, I hear a clicking noise, but nothing happens.</p>	<ol style="list-style-type: none"> 1. Verify you have at least 12V on the back side of the receiver on the battery hookup posts. 2. Call Shur-Co's Help Line.
<p>The rocker switch is not sticking, but the motor continues to run after I release the rocker switch.</p>	<ol style="list-style-type: none"> 1. Call Shur-Co's Help Line.
<p>The rocker switch is sticking.</p>	<ol style="list-style-type: none"> 1. Check the switch for excessive dirt, rocks or other objects. If the rocker switch cannot be cleaned, call Shur-Co's Help Line for a replacement receiver. <p>Pressure wash: Receiver may be pressure washed, but keep nozzle at least 3' from system while spraying.</p>

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- **Genuine Replacement Parts**

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

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 - **SMART2™ Remote**
 - **SMART3™ Remote**
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 - **Electric Shur-Lok®**
 - **AutoTrap™ Hopper Opener**
 - **ProTrap® Hopper Opener**
 - **Electric Gate & Hoist**
 - **LiteALL™ Work Lights**
 - **Cable-Lok™ Electric Upgrade**
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 - **Shur-Trak II™ Electric Upgrade**
 - **Electric Turning Point™ Bow**
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TARPING SYSTEMS & ACCESSORIES

