

Quick-Flip[™] III - Electric

READ BEFORE INSTALLING

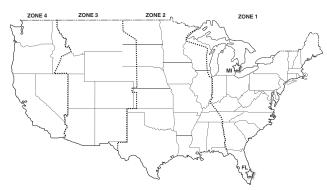
3353 SE GRAN PARK WAY = STUART, FL 34997 PHONE 1-800-327-8287 = FAX 772-287-0431 www.donovan-tarps.com

Shur-Co[®], LLC Terms & Conditions

PREPAID FREIGHT POLICY. Shur-Co®, LLC

will prepay freight on eligible orders* of Florida-manufactured Donovan products and tarp items shipped from our FL and MI branches that meet the dollar requirements for the shipping destinations specified below. *Valid within the continental 48 states only. Applies to products purchased at standard pricing; any special pricing will void standard prepaid freight policy and will be addressed on a case-by-case basis. Does NOT apply to Bedliners or Shur-Co[®] Flatbed products.

INTO FL/MI: Freight prepaid on orders of \$2,500 or more or tarp-only orders of \$1,500 or more. INTO ZONES 1 & 2: Freight prepaid on orders of \$3,000 or more or tarp-only orders of \$2,500 or more. INTO ZONES 3 & 4: Freight prepaid on orders of \$6,000 or more or tarp-only orders of \$3,000 or more.



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

Returns of a product for warranty must be accompanied by a Return Merchandise Authorization number (RMA#), obtained by by calling Customer Service at 800-327-8287, and sent, freight paid by us, to Donovan, 3353 SE Gran Park Way, Stuart, FL 34997. All products returned without an RMA# will be refused. When we issue the RMA#, we will also issue a call tag to have U.P.S. (or other freight company) pick up the product. C.O.D. returns not accepted. We will pay no storage fees for a warranty product return prior to pick by us or the freight company. If a warranty product return is scheduled to be picked up by us, we will pick up the product at our earliest convenience. If a product returned is found, in our judgement, to be defective in material or workmanship, our obligation under this warranty is limited to the repair or replacement of the product, which will be made by us. Repair or replacement will be at our discretion, with replacements being made using current products performing in the equivalent function. Labor charges, other than those incurred at our factory, including, but not limited to, any labor to install a repaired or replacement product, are not covered under this warranty. All expenses associated with delivering defective products to our factory and delivering repaired or replacement products from our factory to the owner will be paid by us.

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

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

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

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

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

SHUR-CO®, LLC SERVICE AND DISTRIBUTION CENTERS

Corporate HQ and Outlet Store

SHUR-CO[®] of SOUTH DAKOTA 2309 Shur-Lok St., PO Box 713 Yankton, SD 57078-0713 Ph 800.474.8756 | Fax 605.665.0501

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

SHUR-CO® of ILLINOIS

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

SHUR-CO® of IOWA

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1746 4th Ave. NW West Fargo, ND 58078 Ph 877.868.4488 | Fax 701.277.1283

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SHUR-CO[®] UK, Ltd. Unit 41 Rochester Airport Estates Laker Rd., Rochester, Kent ME1 3QX Ph +44 (0)1795.473499 Fax +44 (0)871.272.8278 ShurTite[™] Service Centers SHUR-CO[®] of CANADA

490 Elgin St., Unit #1 Brantford, Ontario N3S 7P8 Ph 800.265.0823 | Fax 519.751.3997

SHUR-CO® of SIOUX FALLS 47184 258th St., Suite B Sioux Falls, SD 57107 Ph 844.573.9322 | Fax 605.543.5469

SHUR-CO[®] of ILLINOIS Ph 866.356.0246 | Fax 217.877.8270

SHUR-CO® of OHIO Ph 866.356.0242 | Fax 330.297.5599

For more information, log on to our website: www.donovan-tarps.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 FL HELP LINE: **1-800-327-8287** MON-FRI 8 AM-5 PM EASTERN TIME

SAFETY

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

SAFETY INSTRUCTIONS

- 1. Always wear safety glasses during installation and operation.
- 2. Stay clear of moving parts.
- 3. Do not operate under low-hung power lines. Always check for overhead obstructions before opening or closing.
- 4. Open and close tarp only at job site.
- 5. Place safety decals in visible locations. Replace worn or damaged decals.
- 6. No other use of this system is authorized, except as designed.

RUST PREVENTION

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

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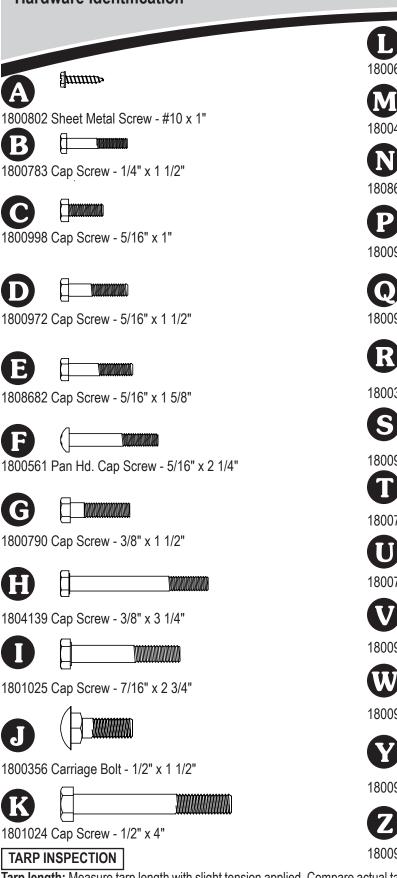
TOOLS REQUIRED

- 1. Wrenches 1/2", 5/16", 9/16", 5/8", 3/4", 7/8"
- 2. Ratcheting Socket Wrench
- 3. Sockets 1/2", 9/16", 3/4"
- 4. Allen Wrenches 1/8", 5/32", 3/16"
- 5. Drill Bits (metal cutting) 5/16", 3/8", 1/2", 3/16"
- 6. Center Punch
- 7. Hammer
- 8. Tape Measure
- 9. Flat Head or Phillips Screwdriver
- 10. Grinder
- 11. Air or Electric Impact Driver w/9/16" Socket
- 12. Metal Saw
- 13. Steel Welder
- 14. Hex Driver Bit 5/16"
- 15. Phillips Driver Bit #2

MAINTENANCE

- Spray all bearings and drive chain with penetrating oil as needed.
- Brush springs with steel brush weekly to remove dirt and spray with penetrating oil.
- · Tighten any loose bolts.
- Replace damaged/bent parts.
- Replace worn or broken springs.
- Replace/repair worn or damaged tarps.

Hardware Identification



1800699 Lock Nut - 1/4"

M	
1800431	Hex Nut - 5/16"





P





1800990 Lock Nut - 5/16"



1800993 Nylon Lock Nut - 3/8"



1800329 Lock Nut - 7/16"



1800995 Lock Nut - 1/2"



1800784 Flat Washer - 1/4"

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1800787 Lock Washer - 5/16"



1800989 Flat Washer - 5/16"



1800991 Lock Washer - 3/8"

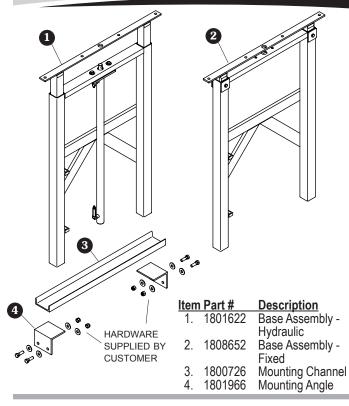


1800994 Flat Washer - 3/8"



Tarp length: Measure tarp length with slight tension applied. Compare actual tarp length with length stated on sheet attached to tarp. If tarp length does not match length on sheet, do not proceed. Call your local dealer or call Shur-Co[®] FL Customer Service at 1-800-327-8287.

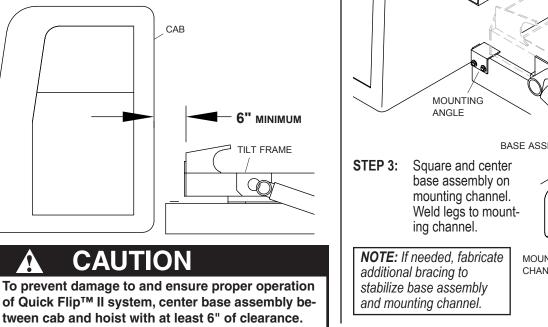
Base Assembly Installation



CLEARANCE REQUIREMENTS

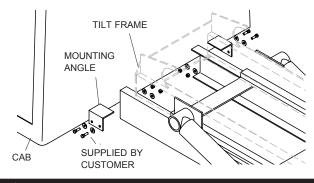
There must be at least 6" clearance between components and tilt frame. If existing exhaust system or hydraulic system components are located between tilt frame and cab, adjust component locations as needed to achieve 6" of clearance.

If existing components interfere with base assembly installation, and if moving existing components is not practical, fabricate brackets as needed to prevent interference.



BASE ASSEMBLY INSTALLATION

STEP 1: Locate mounting angles on both sides of truck frame, centering brackets between cab and tilt frame. Align angles on frame, mark and drill 5/8" holes and fasten with 5/8" x 2" cap screws, flat washers and lock nuts (supplied by customer) or weld in place (see caution).

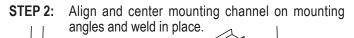


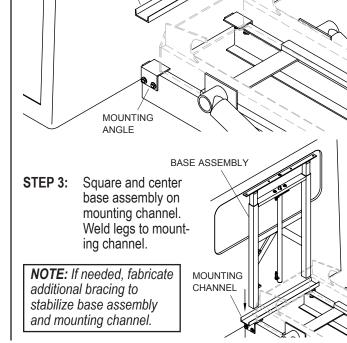
CAUTION Welding components to truck frame may weaken

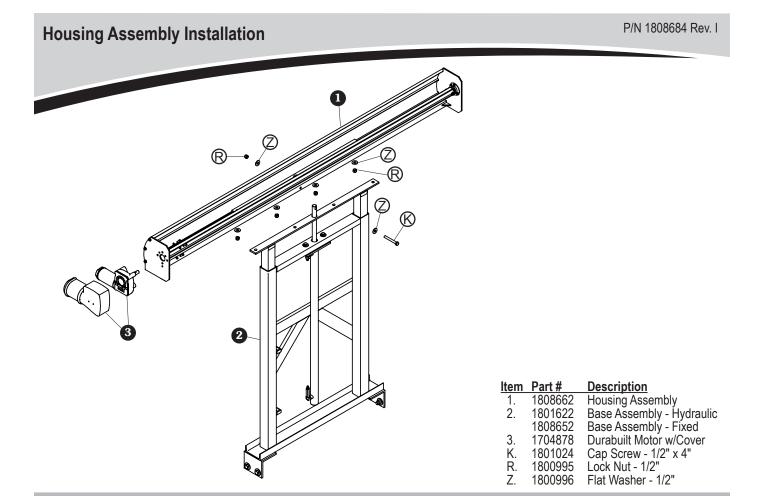
MOUNTING

CHANNEL

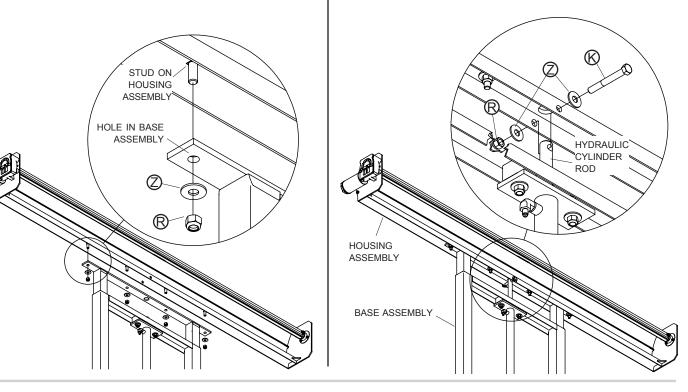
frame and will void warranty on truck. Weld angle brackets to existing brackets on frame when possible. When not possible, drill holes in frame and bolt brackets in place.

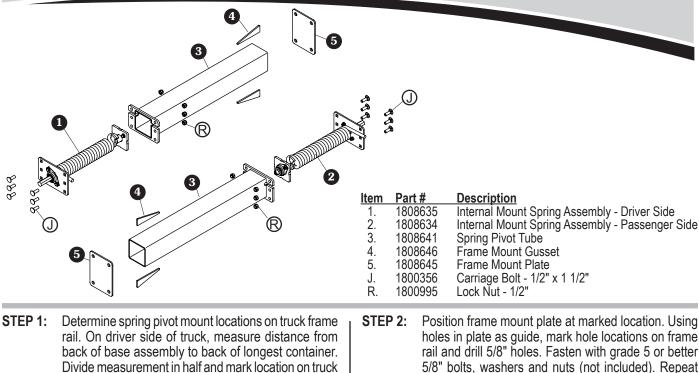




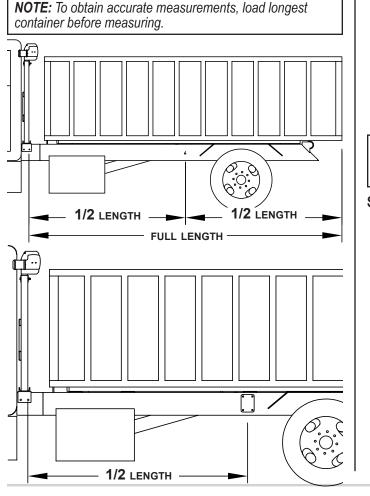


- **STEP 1:** Insert studs on housing assembly into holes in base assembly and fasten with washers **②** and nuts **③**.
- **STEP 2: Hydraulic base assemblies only.** Fasten hydraulic cylinder rod on base assembly to housing assembly with screws ③, washers ④ and nuts ④.

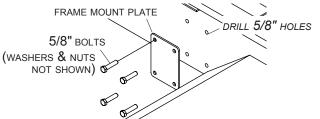




frame. Repeat on passenger side.

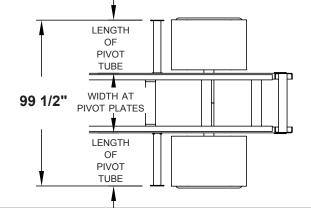


holes in plate as guide, mark hole locations on frame rail and drill 5/8" holes. Fasten with grade 5 or better 5/8" bolts, washers and nuts (not included). Repeat to install frame mount plate at same location on passenger side frame rail.



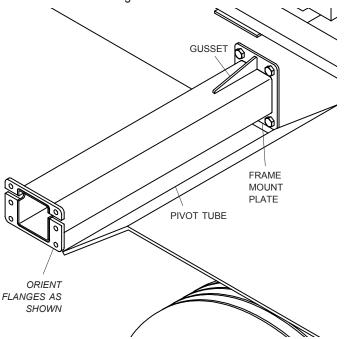
NOTE: Do not weld directly to truck frame as this can weaken frame and potentially void warranty. Components may be welded to plates/structure already existing on truck frame.

STEP 3: To determine spring pivot tube lengths, first measure distance between outside faces of pivot mount plates (frame width plus thickness of two plates). Subtract measurement from overall width of 99 1/2". Divide remainder in half and cut spring pivot tubes to this length.

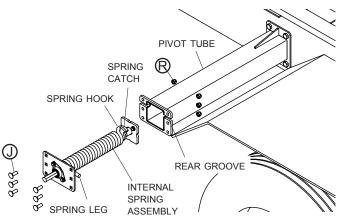


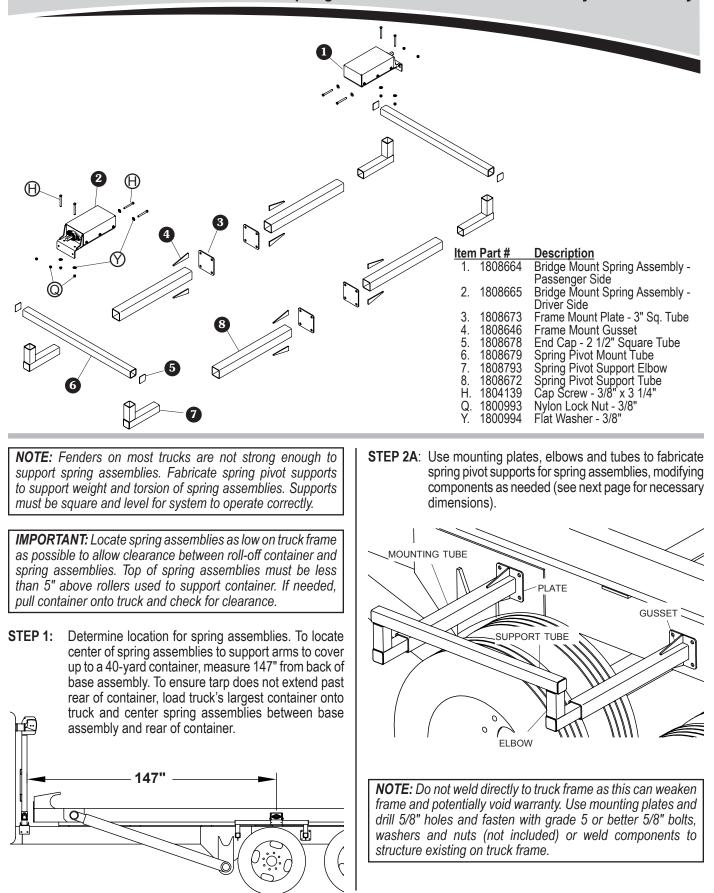
Spring Pivot Installation - Single Axle Fixed Gantry - continued

STEP 4: Center pivot tubes on frame mount plates and tack weld in place. Make sure outer flanges are oriented as shown and pivot tubes are square and level to frame, then fully weld in place. Weld gussets to top and bottom of pivot tubes and frame mount plates for added strength.



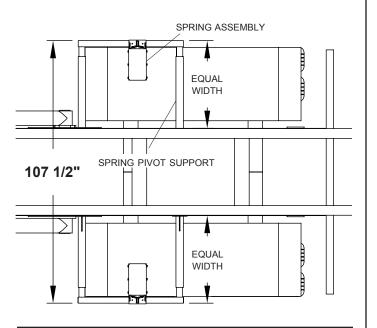
STEP 5: Internal spring assembly. With spring catch aligned with spring hook as shown, insert driver side internal spring assembly into pivot tube. Adjust spring leg into rear groove on pivot tube with spring leg pointing toward rear of truck. Fasten assembly to pivot tube with carriage bolts • and nylon lock nuts •. Repeat on passenger side.





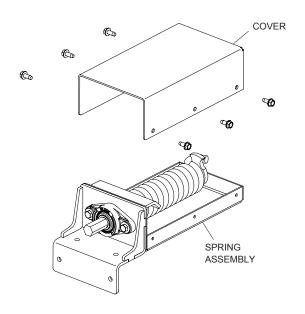
Spring Pivot Installation - Tandem Axle Hydraulic Gantry - continued

- **STEP 2B**: Fabricate supports to be equal in width, with an overall width of 107 1/2". Secure supports to truck frame.

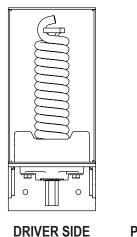


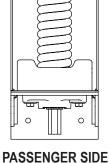
NOTE: Spring pivot supports must be equal in length so system will be centered on truck

STEP 3: Remove covers from spring assemblies.

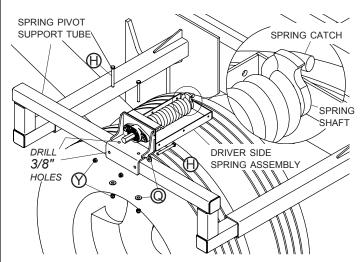


STEP 4: Compare springs to those illustrated below to find driver side assembly.

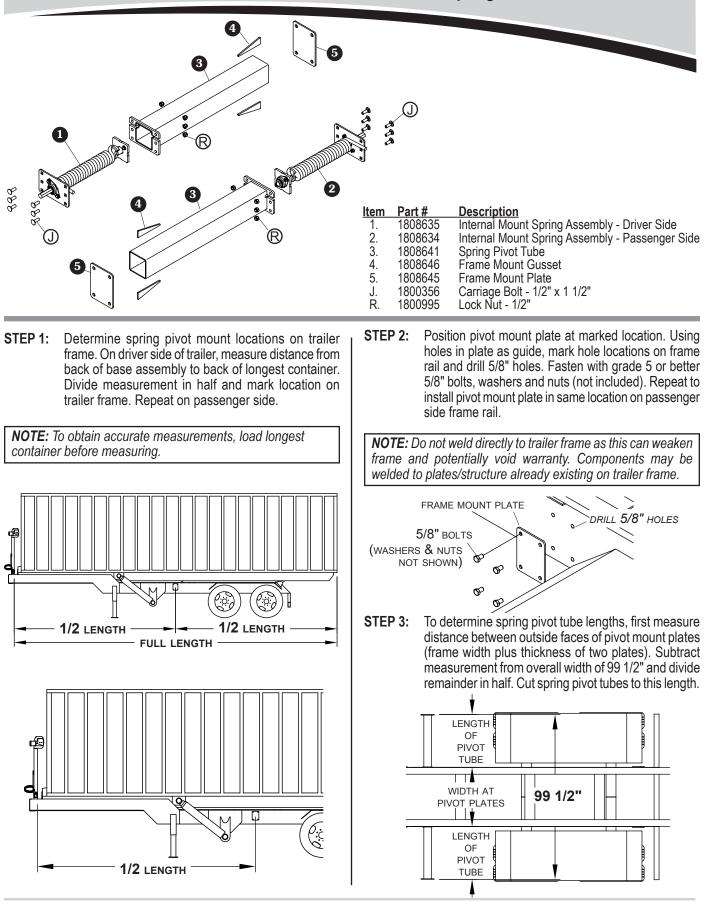




STEP 5: Clamp driver side spring assembly to spring pivot support tube at location determined previously. Weld directly to tube, or drill 3/8" holes and fasten to tube with screws ⊕, washers ⊕ and nuts ⊕. Repeat for passenger side. Rotate spring shafts so spring catch engages spring hook as shown, then reinstall covers.

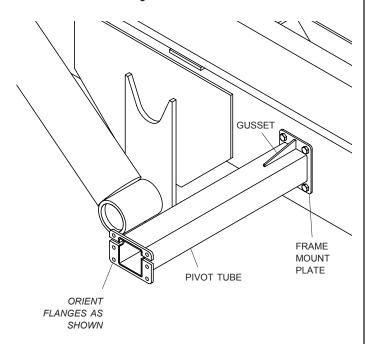


Spring Pivot Installation - Trailers

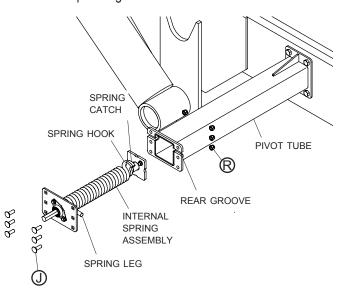


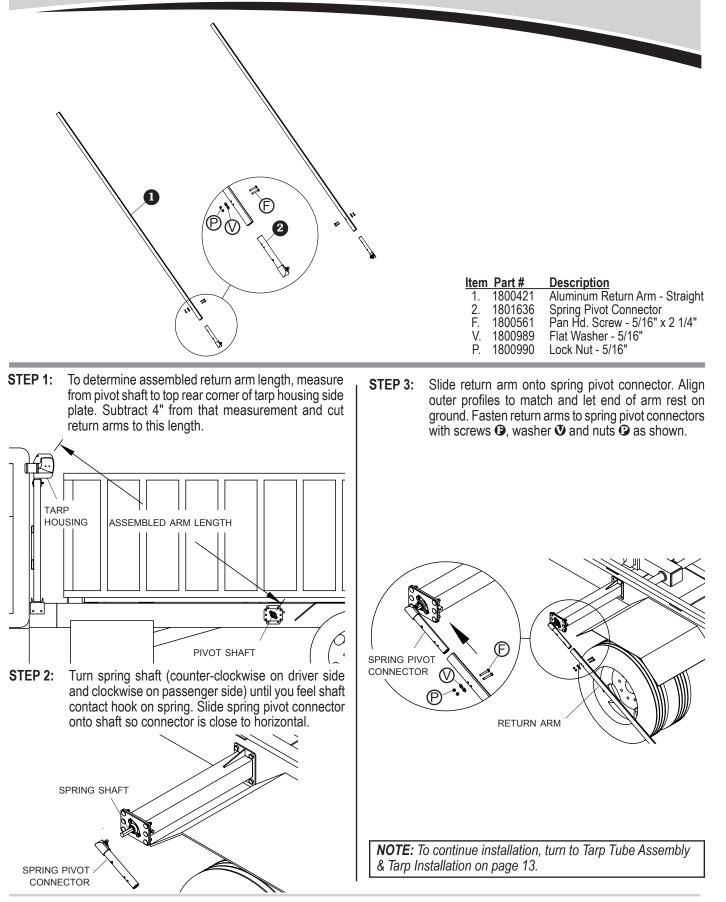
Spring Pivot Installation - Trailers - continued

STEP 4: Center pivot tubes on pivot mount plates and tack weld in place. Make sure outer flanges are oriented as shown and pivot tubes are square and level to frame, then fully weld in place. Weld gussets to top and bottom of pivot tube and mounting plates for added strength.



STEP 5: Internal spring assembly. With spring catch aligned with spring hook as shown, insert driver side internal spring assembly into pivot tube. Adjust spring leg into rear groove on pivot tube with spring leg pointing toward rear of trailer. Fasten assembly to pivot tube with carriage bolts • and nylon lock nuts •. Repeat on passenger side.





Pivot Arm Installation - Tandem/Multi-Axle Truc	KS P/N 1808684 Rev. I	
Item Part # Description 1. 1800548 Upper Aluminum Arm 2. 1800547 Arm Coupler 3. 1800545 Lower Aluminum Arm 4. 1801636 Spring Pivot Connector F. 1800561 Pan Hd. Screw - 5/16" x 2 1/4" V. 1800989 Flat Washer - 5/16" P. 1800990 Lock Nut - 5/16"		
 STEP 1: Turn spring shaft (counter-clockwise on driver side and clockwise on passenger side) until you feel shaft contact hook on spring. Slide spring pivot connector on spring assembly, positioning bend in arm as shown. Fasten lower arm to pivot connector with screws (), washers () and nuts (). SPRING ASSEMBLY PIVOT CONNECTOR STEP 2: Mark and drill 5/16" holes in lower end of arm. Cut arm 		
STEP 2: Mark and drill 5/16" holes in lower end of arm. Cut arm to length before drilling holes if shorter arm length is desired. MARK & DRILL 5/16" HOLES	ARM STEP 4: Slide arm coupler into lower arm and fasten with screws ③, washers ④ and nuts ④.	

Donovan HELP LINE: 800.327.8287

STEP 5:

on page 13.

6"

NOTES: If holes will not align well enough to insert bolts, run 5/16" drill bit through holes. Place bolt heads on inside of

arms to prevent bolts from catching on container.

7 1/2"-

LOWER

UPPER

ARM

Ø

ARM COUPLER

ARM

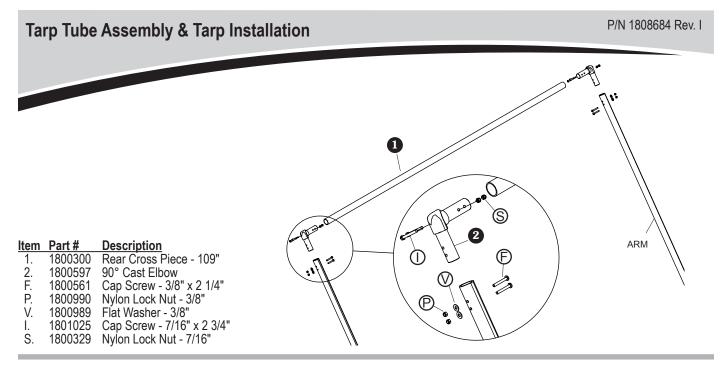
Slide upper arm onto arm cou-

pler and fasten with screws (9,

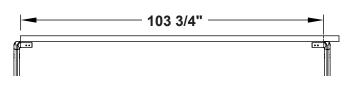
washers **V** and nuts **P**.

NOTE: To continue installation, turn to Tarp Tube Assembly & Tarp Installation

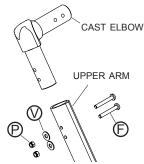
P/N 1808684 Rev. I	Pivot Arm Installation - Trailers
	 Item Part # Description 1. 1801241 Aluminum Return Arm 2. 1801636 Spring Pivot Connector F. 1800561 Pan Hd. Screw - 5/16" x 2 1/4" V. 1800989 Flat Washer - 5/16" P. 1800990 Lock Nut - 5/16"
STEP 1: To determine assembled return arm length, measure from pivot shaft to top rear corner of largest container. Subtract 4" from that measurement and cut return arms to this length.	STEP 3: Slide return arm onto spring pivot connector. Align outer profiles so they match and let end of arm rest on ground. Fasten return arms to spring pivot connectors with screws () , washer () and nuts () as shown.
ASSEMBLED ARM LEWGTH	
STEP 2: Turn spring shaft (counter-clockwise on driver side and clockwise on passenger side) until you feel shaft contact hook on spring. Slide spring pivot connector onto shaft so connector is close to horizontal.	SPRING PIVOT CONNECTOR
SPRING SHAFT	
SPRING PIVOT CONNECTOR	NOTE: To continue installation, turn to Tarp Tube Assembly & Tarp Installation on page 13.



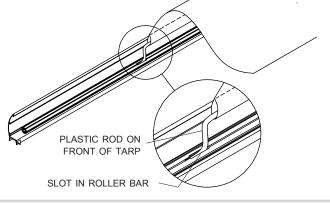
STEP 1: Mark and cut rear cross piece to 103 3/4".



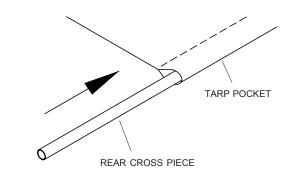
STEP 2: Insert cast elbow into upper arm and fasten with screws ③, washers ④ and nuts ④.



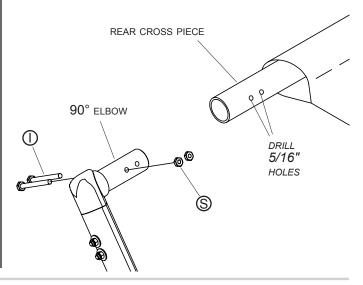
STEP 3: Thread front of tarp with plastic rod into slot in center of roller bar. Trim ends of rod to fit tarp.

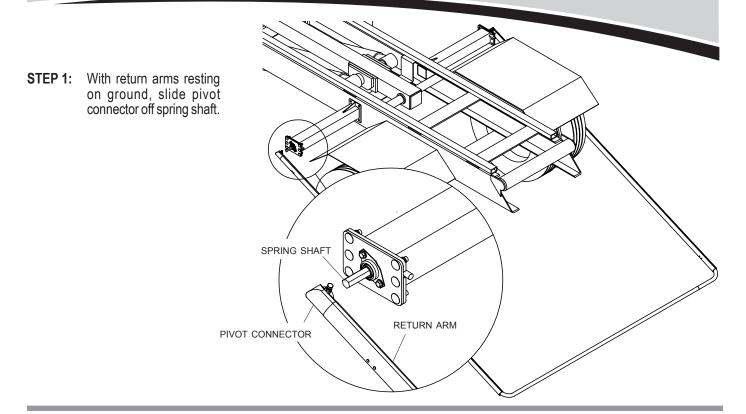


STEP 4: Slide rear cross piece into tarp pocket at rear of tarp.

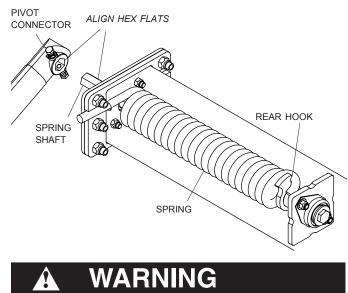


- **STEP 5:** Center tarp on roller bar and rear cross piece.
- **STEP 6:** Insert rear cross piece into 90° elbows. Using holes in 90° elbow as guide, mark and drill 5/16" holes. Fasten with screws **①** and nuts **③**.

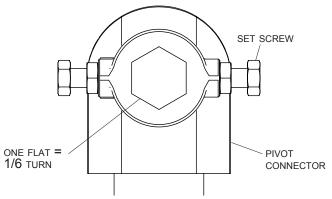




STEP 2: To pre-load spring, turn spring shaft (counter-clockwise for driver side and clockwise for passenger side) until you feel shaft engage rear hook on spring. Use 7/8" wrench or pipe wrench to continue turning shaft in same direction until next flat on hex shaft lines up with hex flats in pivot connector, then slide pivot connector onto spring shaft.



Use caution when pre-loading springs. Do not let go of pipe wrench until spring pressure is relieved. **STEP 3:** Pre-load spring one flat (1/6 turn) at a time on hex shaft until desired pre-load is reached. Remove pivot connector after each 1/6 turn, rotate connector to next flat and replace. When desired pre-load is reached, secure pivot connectors to spring shafts with set screws.

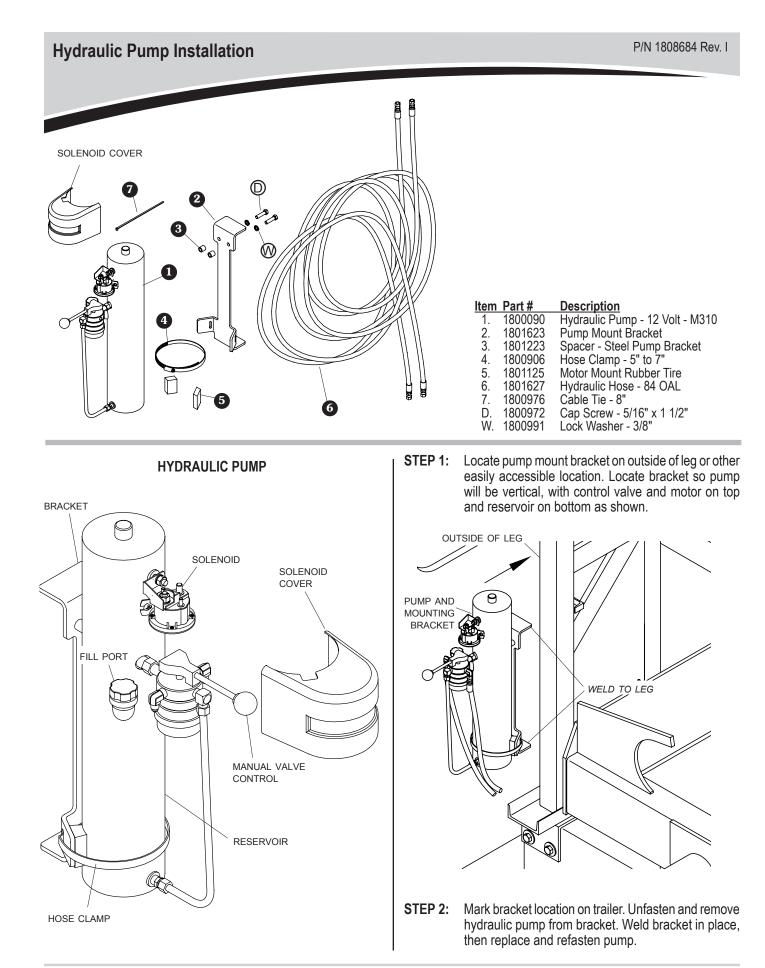


Recommended pre-loads:

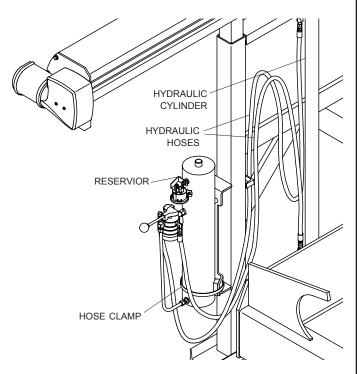
Single axle kits - Start by turning two flats (1/3 turn) of pre-load, adding more if needed. For containers up to 22', start by turning three flats (1/2 turn) of pre-load.

Tandem/multi-axle kits - One flat (1/6 turn) of pre-load can be added but do not exceed that amount or spring may be damaged. Tandem/multi-axle kits require less pre-load because spring loads up more quickly.

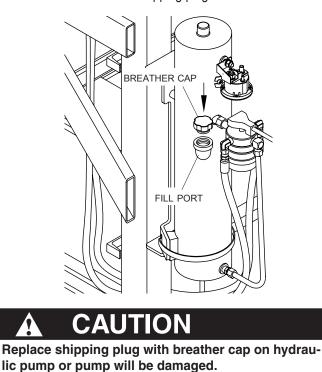
 $\ensuremath{\text{Trailers}}$ - Start by turning three flats (1/2 turn) of pre-load and increase as needed.



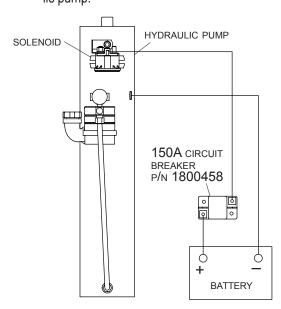
STEP 3: Connect hoses from hydraulic pump to hydraulic cylinder, making sure hose clamps are tight around reservoir.



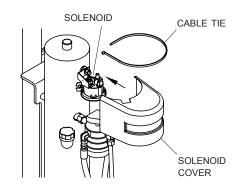
STEP 4: Remove shipping plug from fill port and fill pump with approximately four quarts of Dexron automatic transmission fluid. Install breather cap onto fill port. Do not reinstall shipping plug.



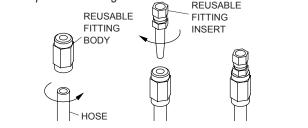
STEP 5: Connect negative wire from battery to stud on hydraulic pump.



- **STEP 6:** Connect positive wire from battery to circuit breaker and from circuit breaker to solenoid on pump.
- **STEP 7:** Place solenoid cover over solenoid. Secure cover to pump with 8" cable tie.



NOTE: To thread fitting body onto end of hose, turn body counterclockwise until body engages hose about 1". Thread fitting insert onto body, turning clockwise until insert is snug against body. Fitting must be threaded completely onto hoses to prevent leaking.



Electric Installation A Item Part # Description 1703845 Solenoid 1 2. 1703896 Solenoid Cover 3. **Toggle Switch** 1801726 Toggle Switch Plate 4. 1801265 5. 1800430 Ring Terminal - 8 Ga. x 1/4" Ring Terminal - 8 Ga. x 3/8" 6. 1801486 7. 1800417 Circuit Breaker - 60-Amp 12V Butt Connector - 18-22 Ga. 8. 1800441 1800802 Sheet Metal Screw - #10 x 1" Α. Cap Screw - 1/4" x 1 1/2" 1800783 Β. L. 1800699 Lock Nut - 1/4" Flat Washer - 1/4" SAE Τ. 1800784

NOTE: New electric motor kits include dual-conductor wire. If not using new electric kit, use existing wire on truck.

CAUTION

Do not spray electric components with pressure washer or hose.

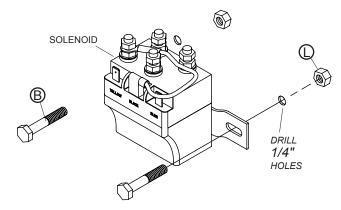
CAUTION

Do not pull dual-strand wires apart. To separate, carefully cut through insulation between wires with knife. Pulling wires apart could damage wire insulation and expose wire. This could result in equipment damage and/or personal injury.

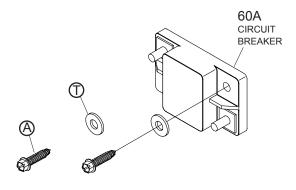
NOTE: Cut wires to length and strip only enough wire insulation to install ring terminals. Insert bare wire into ring terminals and crimp securely. Q STRIP WIRE INSULATION

CRIMP SECUREL

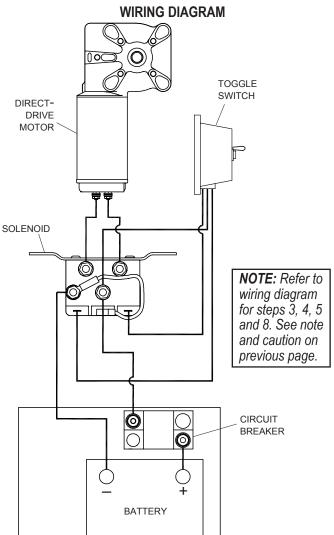
STEP 1: Locate solenoid in sheltered location, such as battery box, cab or under cab. Using solenoid as guide, mark and drill 1/4" holes. Loosely fasten solenoid with screws (3) and nuts (1).



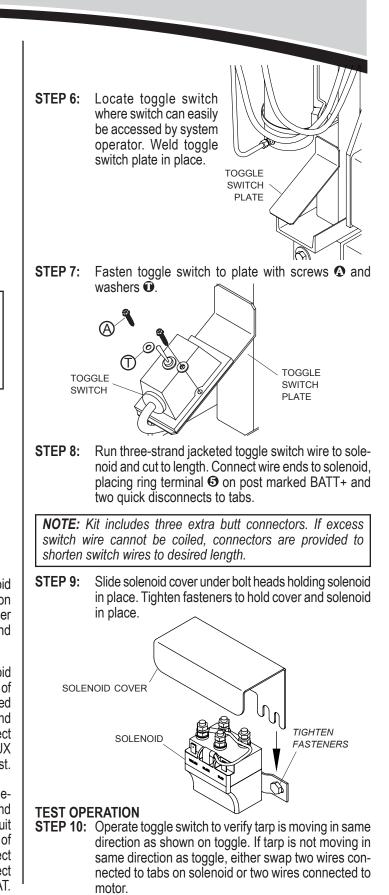
STEP 2: Locate circuit breaker near battery. Fasten with screws (1) and washers (1).



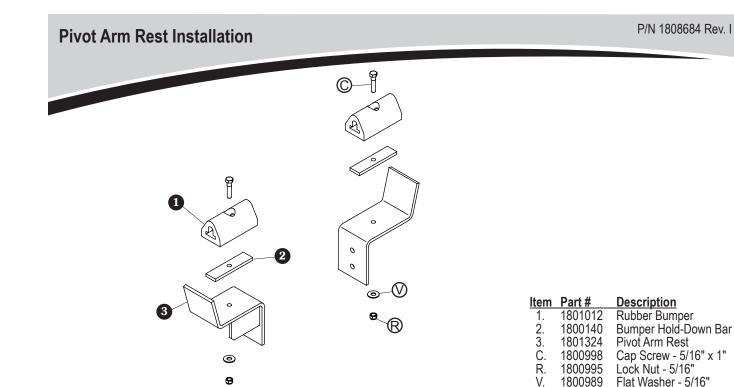
RING TERMINAL



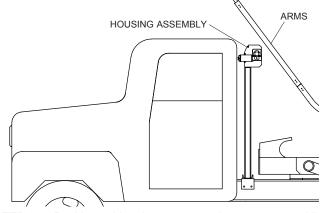
- STEP 4: Cut section of dual-conductor wire to run from solenoid to battery. Crimp two 1/4" ring terminals (3) on one end of wire and connect terminals to posts on solenoid marked Batt+ and Batt-. Crimp one 1/4" ring terminal (3) and one 3/8" ring terminal (3) on other end of wire. Connect 1/4" ring terminal to circuit breaker post marked AUX and connect 3/8" ring terminal to negative battery post.
- STEP 5: Divide portion of dual-conductor wire into two single-strand wires (see caution). Cut section of single-strand wire to run from positive terminal on battery to circuit breaker. Crimp 3/8" ring terminal onto one end of wire and 1/4" ring terminal onto other end. Connect 3/8" ring terminal to positive battery post and connect 1/4" ring terminal to post on circuit breaker marked BAT.



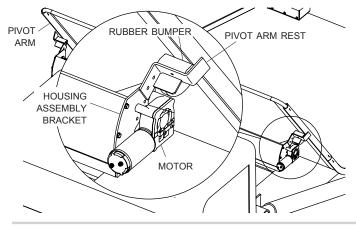
Electric Installation - continued



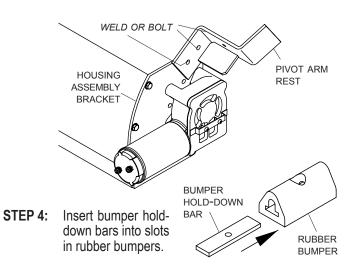
STEP 1: Wind tarp open until arms are completely forward, stopping just before arms reach housing assembly.



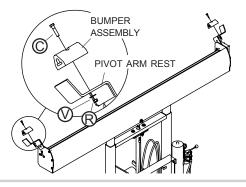
STEP 2: Position rubber bumpers on pivot arm rests. Align components on housing assembly brackets, adjusting so pivot arms rest evenly on rests and do not interfere with motor. Clamp pivot arm rests in place.

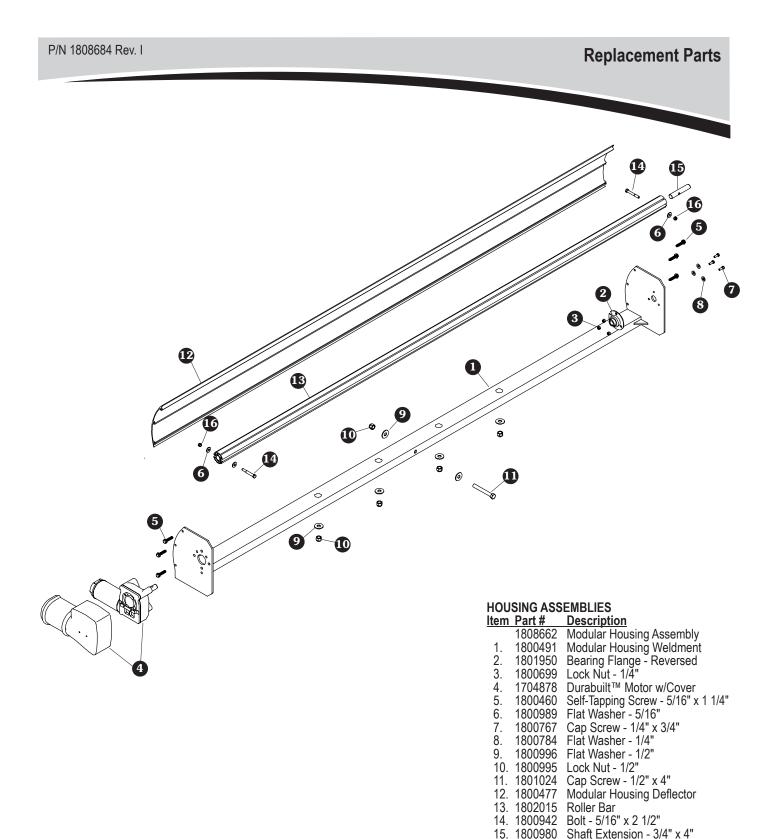


STEP 3: Remove rubber bumpers and weld or bolt pivot arm rests onto housing brackets (hardware not provided).

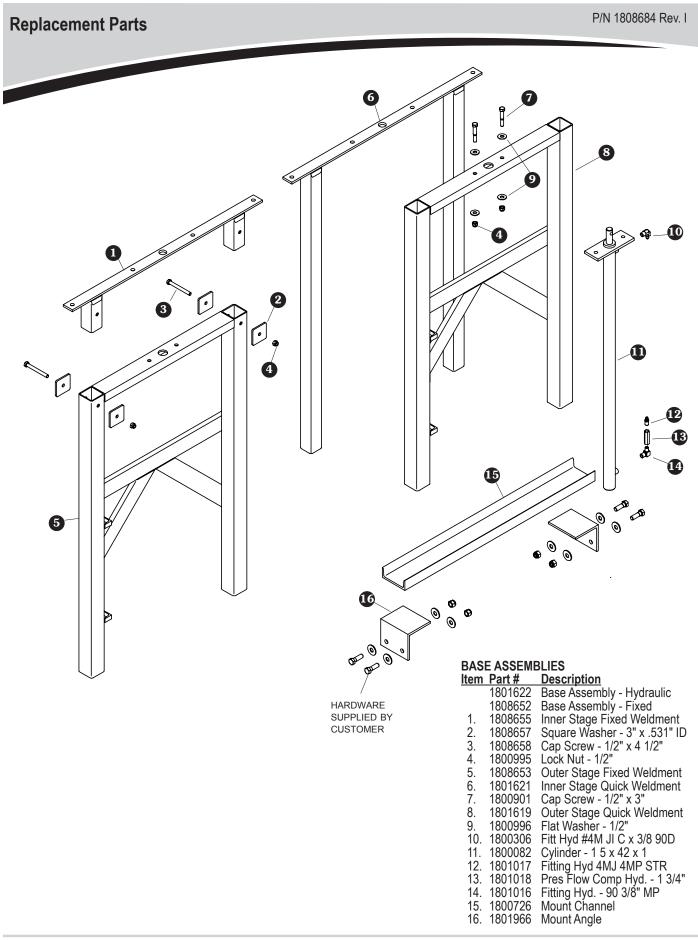


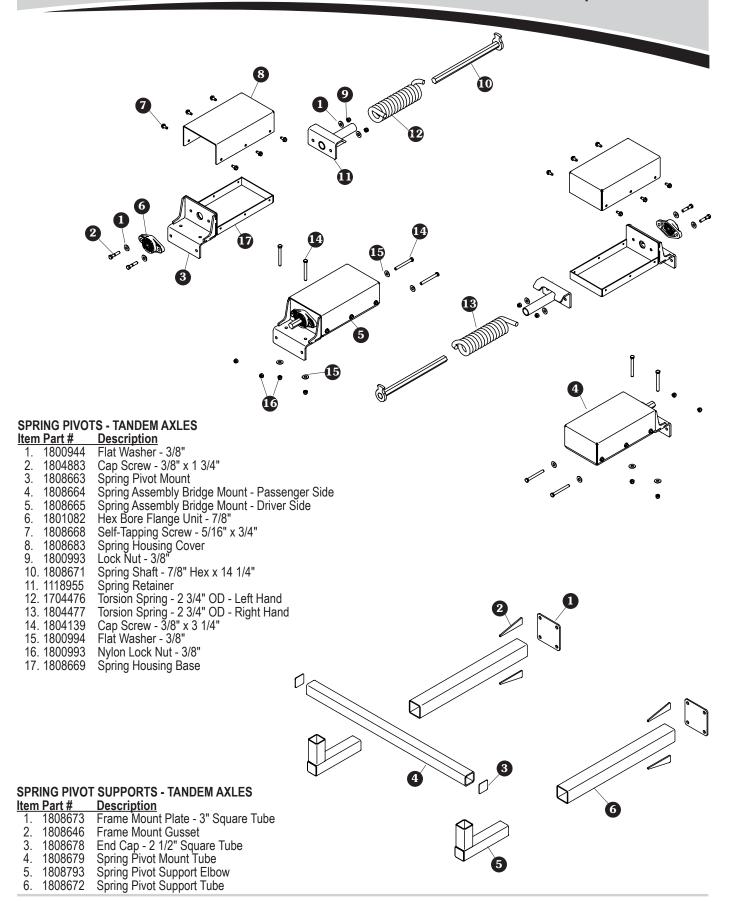
STEP 5: Fasten bumper assemblies to pivot arm rests with screws ⊙, washers ⊙ and nuts ⊙.

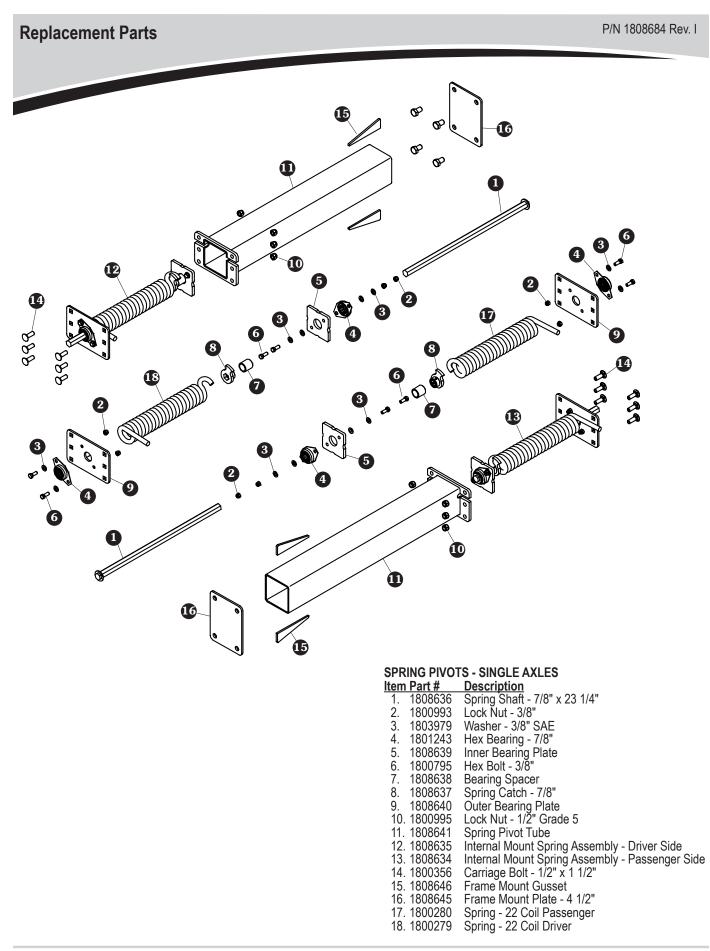


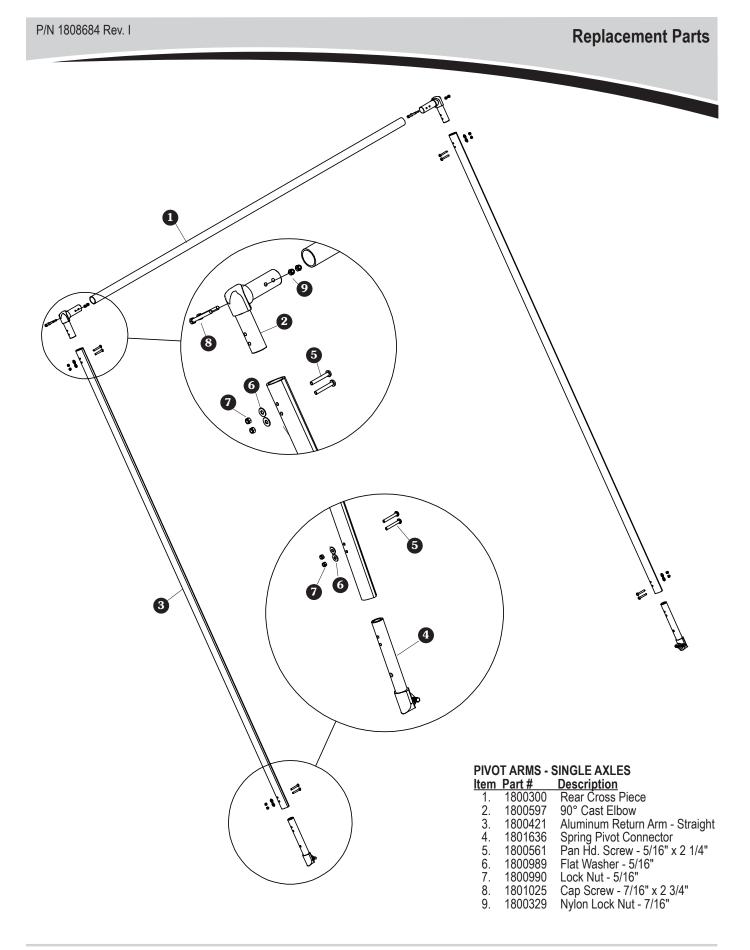


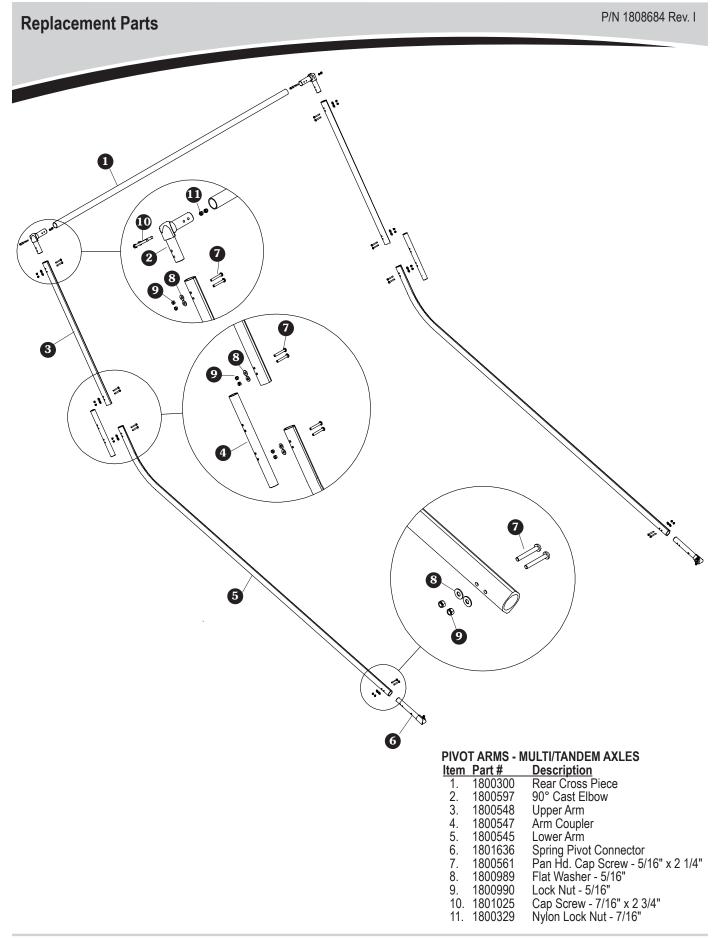
16. 1800990 Lock Nut - 5/16"

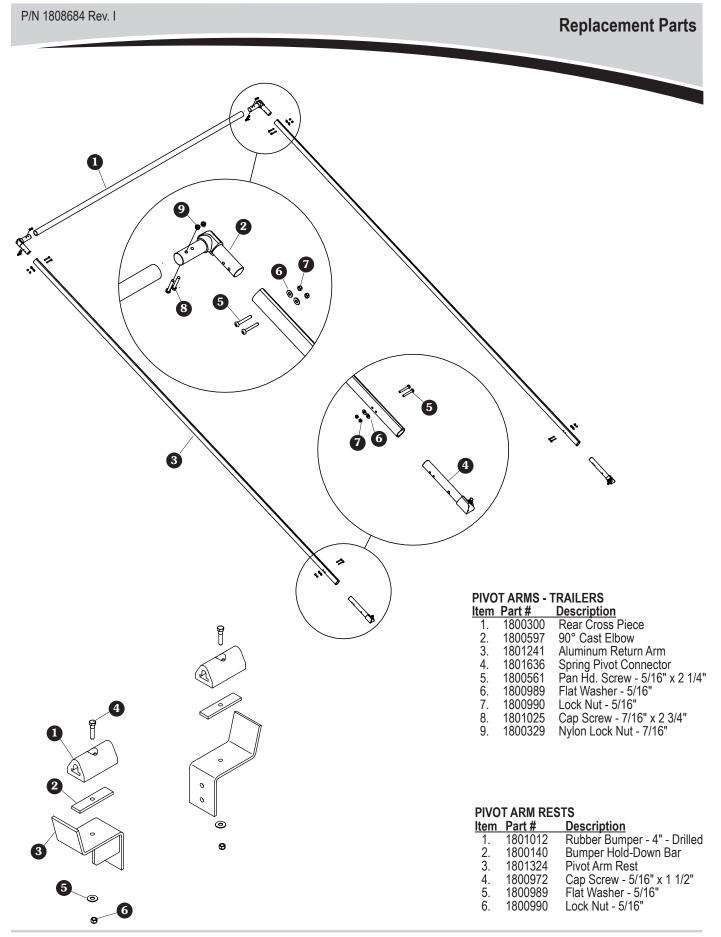






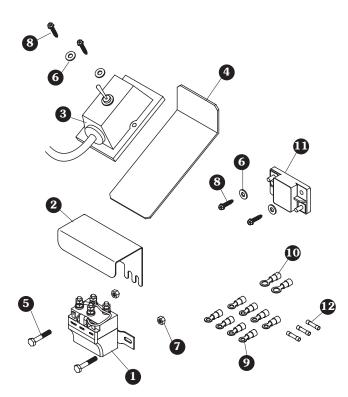






Replacement Parts

HYDRAULIC C		SOLENOID COVER
Item Part # 1. 1800090 2. 1801623 3. 1801223 4. 1800906 5. 1801125 6. 1801627 7. 1800976 8. 1800972 9. 1800991	Hydraulic Pump - 12 Volt - M310 Pump Mount Bracket Spacer - Steel Pump Bracket Hose Clamp - 5" to 7" Motor Mount Rubber Tire Hydraulic Hose - 84 OAL Cable Tie - 8"	



ELECTRIC COMPONENTS			
<u>Item</u>	Part #	Description	
1.	1703845	Solenoid	
2.		Solenoid Cover	
3.	1801726	Toggle Switch	
4.	1801265	Toggle Switch Plate	
5.	1800783	Cap Screw - 1/4" x 1 1/2"	
6.	1800784	Flat Washer - 1/4" USS	
7.	1800699	Lock Nut - 1/4"	
8.	1800802	Sheet Metal Screw - #10 x 1"	
9.	1800430	Ring Terminal - 8 Ga. x 1/4"	
10.	1801486	Ring Terminal - 8 Ga. x 3/8"	
11.	1800417	Circuit Breaker - 60-Amp 12V	
12.	1800441	Butt Connector - 18-22 Ga.	

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 - Econo-Pull™
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 - The Ox^{TM}
 - Quick-Flip III[™]
 - Sidewinder™
 - Sidewinder[™] 350
 - HyTower[™] SL
 - $HyTower^{TM} DL$
 - Double-Flip[™]
 - Donovan Belt & Ratchet (DBR)

