

TARP SYSTEMS, PARTS & TARPS

READ BEFORE INSTALLING P/N 1811475 Rev. A



Electric System

OWNER'S MANUAL

3353 GRAN PARK WAY • STUART, FL 34997 PHONE: 1-800-327-8287 • FAX: 1-772-287-0431

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LEGAL



WARRANTY



PATENTS



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SHUR-CO® UK LIMITED

Unit 41, Rochester Airport Estate Laker Road Rochester, Kent ME1 3QX

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.
- 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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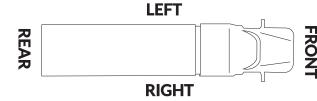
REQUIRED TOOLS

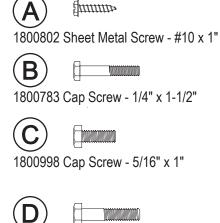
- 1. Wrenches 1/2", 5/16", 9/16", 5/8", 3/4", 7/8"
- 2. Ratcheting Socket Wrench
- 3. Sockets 1/2", 9/16", 3/4"
- 4. Allen Wrenches 1/8", 5/32", 3/16"
- 5. Drill Bits (metal cutting) 5/16", 3/8", 1/2", 3/16"
- 6. Center Punch
- 7. Hammer
- 8. Tape Measure
- 9. Flat Head or Phillips Screwdriver
- 10. 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

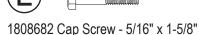
- · Spray all bearings with penetrating oil as needed.
- Brush springs with steel brush weekly to remove dirt and spray with penetrating oil.
- Tighten any loose bolts.
- Replace damaged/bent parts.
- · Replace worn or broken springs.
- Replace/repair worn or damaged tarps.

VEHICLE ORIENTATION









1800972 Cap Screw - 5/16" x 1-1/2"



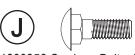
1800270 Pan Hd. Cap Screw - 5/16" x 2-1/4"



1800790 Cap Screw - 3/8" x 1-1/2"



1804139 Cap Screw - 3/8" x 3-1/4"



TARP INSPECTION

1800356 Carriage Bolt - 1/2" x 1-1/2"







1800699 Lock Nut - 1/4"





1800431 Hex Nut - 5/16"





1808681 Nylon Lock Nut - 5/16" - Thin





1800990 Lock Nut - 5/16"





1800993 Nylon Lock Nut - 3/8"





1800995 Lock Nut - 1/2"





1800784 Flat Washer - 1/4"





1800787 Lock Washer - 5/16"





1800989 Flat Washer - 5/16"





1800991 Lock Washer - 3/8"





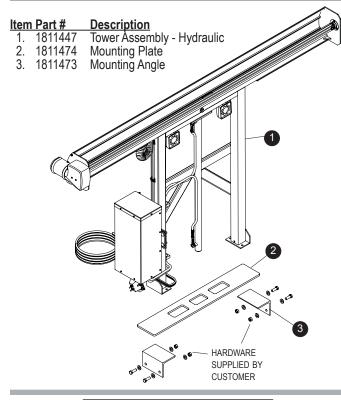
1800994 Flat Washer - 3/8"





1800996 Flat Washer - 1/2"

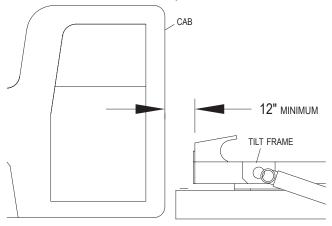
Tarp length: Measure tarp length with slight tension applied. Compare actual tarp length with length stated on sheet attached to tarp. If tarp length does not match length on sheet, do not proceed. Call your local dealer or call Shur-Co[®] FL Customer Service at 1-800-327-8287.



CLEARANCE REQUIREMENTS

There must be at least 12 inches of 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 12 inches 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.

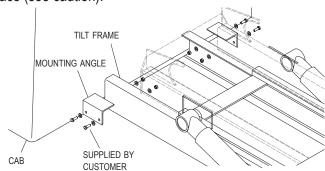


A CAUTION

To prevent damage to and ensure proper operation of Quick Flip™ IV system, center base assembly between cab and hoist with at least 12" of clearance.

TOWER ASSEMBLY INSTALLATION

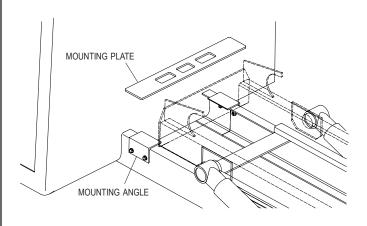
STEP 1: Locate mounting angles on both sides of truck frame, centering brackets between cab and tilt frame. Align angles on frame, mark and drill 5/8 inch holes and fasten with 5/8 inch x 2 inch grade 8 cap screws, flat washers and lock nuts (supplied by customer) or weld in place (see caution).



A CAUTION

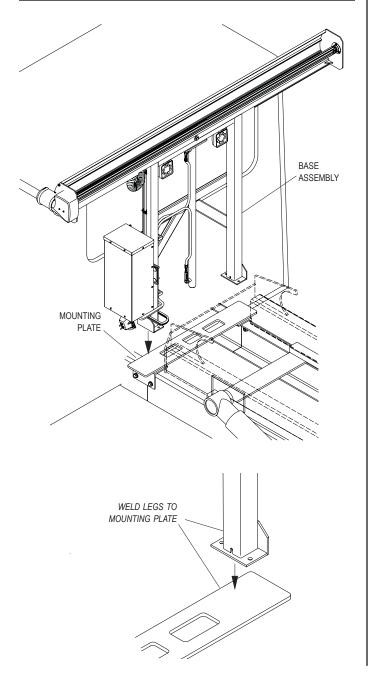
Welding components to truck frame may weaken frame and will void warranty on truck. Weld angle brackets to existing brackets on frame when possible. When not possible, drill holes in frame and bolt brackets in place.

STEP 2: Align and center mounting plate on mounting angles and weld in place.



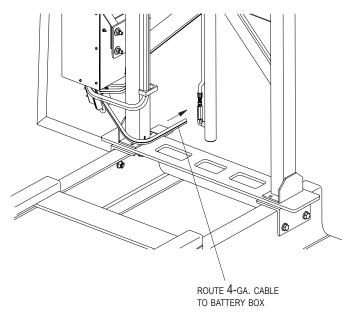
STEP 3: Square and center base assembly on mounting plate and weld legs to mounting plate.

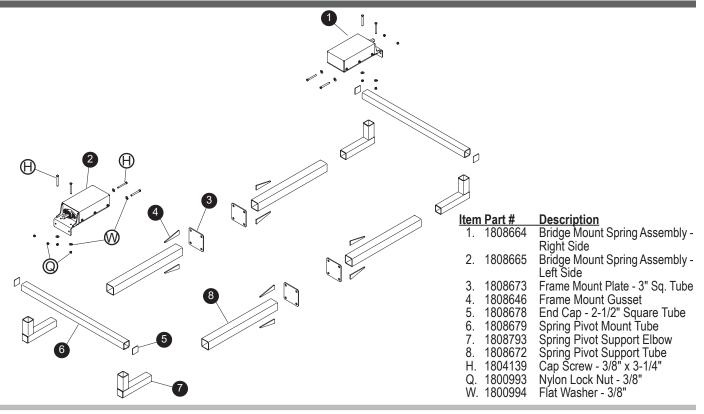
NOTE: If needed, fabricate additional bracing to stabilize base assembly and mounting plate.



STEP 4: Route 4-Ga. power cable to battery box. Instructions for making electrical connections can be found in Electric/Hydraulic Installation section on page 18.

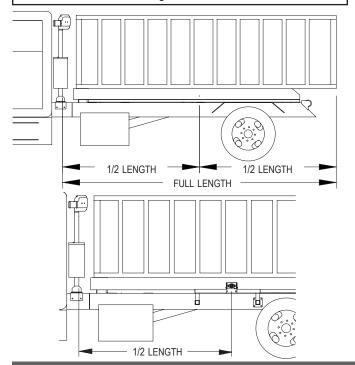
NOTE: Do not make electrical connections at battery until hydraulic power unit has been filled with hydraulic oil.



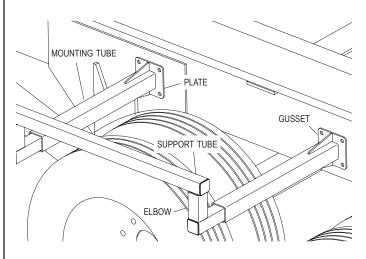


STEP 1: Determine spring pivot mount locations on truck frame rail. On left side of truck, measure distance from back of base assembly to back of longest container. Divide measurement in half and mark location on truck frame. Repeat on right side.

NOTE: To obtain accurate measurements, load longest container before measuring.

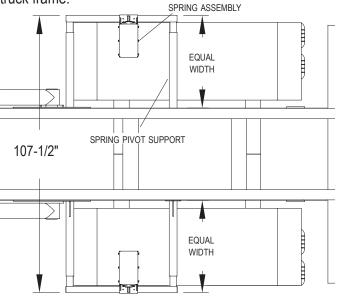


STEP 2A: Use mounting plates, elbows and tubes to fabricate spring pivot supports for spring assemblies, modifying components as needed (see next page for necessary dimensions).



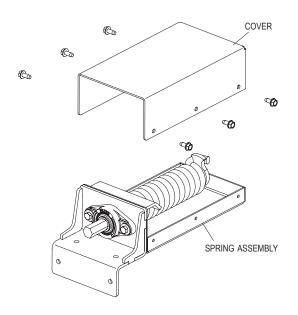
NOTE: Do not weld directly to truck frame as this can weaken frame and potentially void warranty. Use mounting plates and drill 5/8 inch holes and fasten with grade 5 or better 5/8 inch bolts, washers and nuts (not included) or weld components to structure existing on truck frame.

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

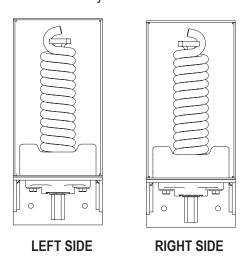


NOTE: Spring pivot supports must be equal in length so system will be centered on truck

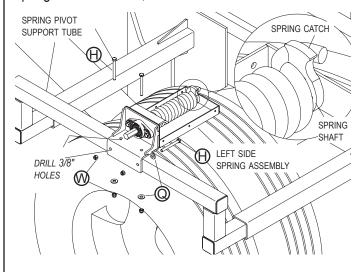
STEP 3: Remove covers from spring assemblies.

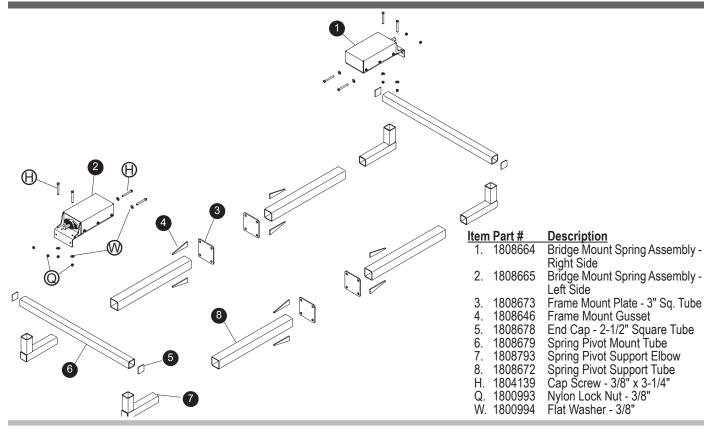


STEP 4: Compare springs to those illustrated below to find left side assembly.



STEP 5: Clamp left side spring assembly to spring pivot support tube at location determined previously. Weld directly to tube, or drill 3/8 inch holes and fasten to tube with screws (**H**), washers (**Q**) and nuts (**W**). Repeat for right side. Rotate spring shafts so spring catch engages spring hook as shown, then reinstall covers.

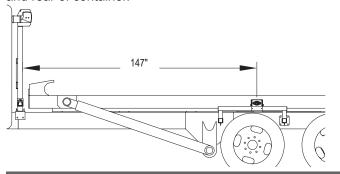




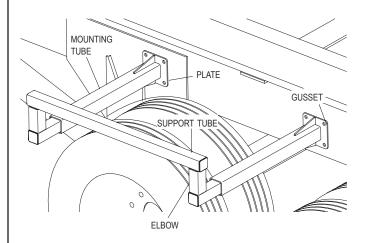
NOTE: Fenders on most trucks are not strong enough to support spring assemblies. Fabricate spring pivot supports to support weight and torsion of spring assemblies. Supports must be square and level for system to operate correctly.

IMPORTANT: Locate spring assemblies as low on truck frame as possible to allow clearance between roll-off container and spring assemblies. Top of spring assemblies must be less than 5 inches above rollers used to support container. If needed, pull container onto truck and check for clearance.

STEP 1: Determine location for spring assemblies. To locate center of spring assemblies to support arms to cover up to a 40-yard container, measure 147 inches from back of base assembly. To ensure tarp does not extend past rear of container, load truck's largest container onto truck and center spring assemblies between base assembly and rear of container.

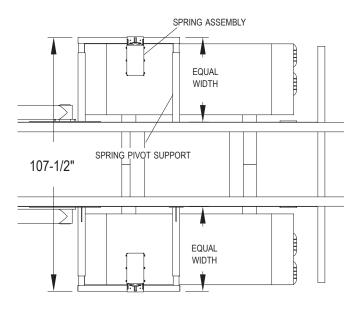


STEP 2A: Use mounting plates, elbows and tubes to fabricate spring pivot supports for spring assemblies, modifying components as needed (see next page for necessary dimensions).



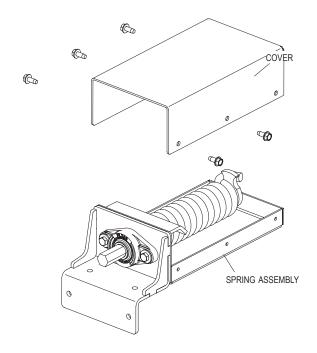
NOTE: Do not weld directly to truck frame as this can weaken frame and potentially void warranty. Use mounting plates and drill 5/8 inch holes and fasten with grade 5 or better 5/8 inch bolts, washers and nuts (not included) or weld components to structure existing on truck frame.

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

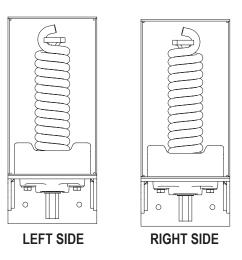


NOTE: Spring pivot supports must be equal in length so system will be centered on truck

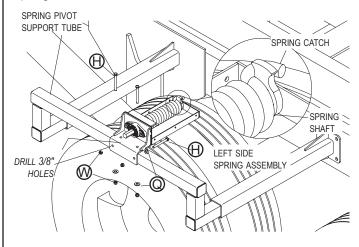
STEP 3: Remove covers from spring assemblies.

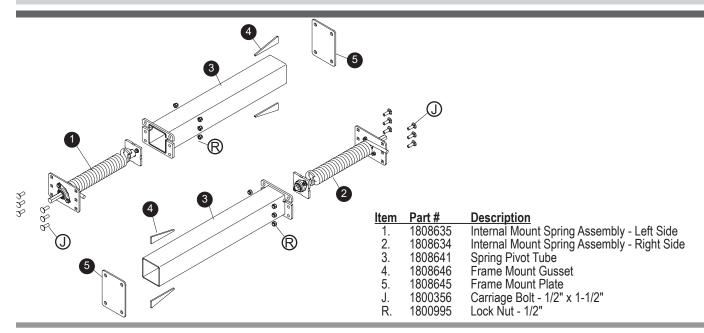


STEP 4: Compare springs to those illustrated below to find left side assembly.



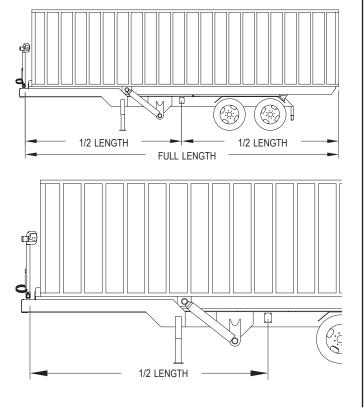
STEP 5: Clamp left side spring assembly to spring pivot support tube at location determined previously. Weld directly to tube, or drill 3/8 inch holes and fasten to tube with screws (**H**), washers (**Q**) and nuts (**W**). Repeat for right side. Rotate spring shafts so spring catch engages spring hook as shown, then reinstall covers.





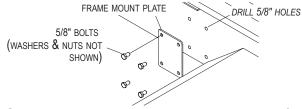
STEP 1: Determine spring pivot mount locations on trailer frame. On left side of trailer, measure distance from back of base assembly to back of longest container. Divide measurement in half and mark location on trailer frame. Repeat on right side.

NOTE: To obtain accurate measurements, load longest container before measuring.

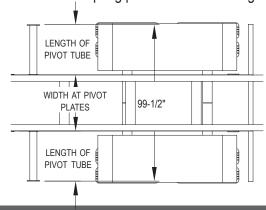


STEP 2: Position pivot mount plate at marked location. Using holes in plate as guide, mark hole locations on frame rail and drill 5/8 inch holes. Fasten with grade 5 or better 5/8 inch bolts, washers and nuts (not included). Repeat to install pivot mount plate in same location on right side frame rail.

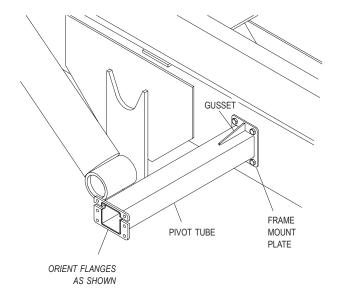
NOTE: Do not weld directly to trailer frame as this can weaken frame and potentially void warranty. Components may be welded to plates/structure already existing on trailer frame.



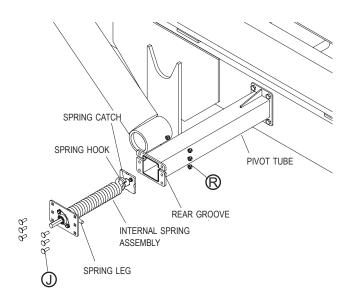
STEP 3: To determine spring pivot tube lengths, first measure distance between outside faces of pivot mount plates (frame width plus thickness of two plates). Subtract measurement from overall width of 99-1/2 inches and divide remainder in half. Cut spring pivot tubes to this length.

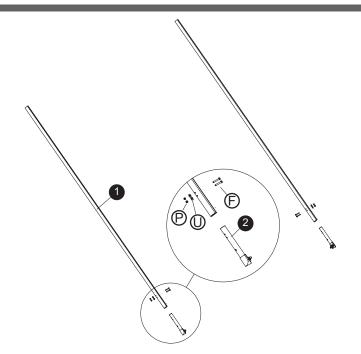


STEP 4: Center pivot tubes on pivot mount plates and tack weld in place. Make sure outer flanges are oriented as shown and pivot tubes are square and level to frame, then fully weld in place. Weld gussets to top and bottom of pivot tube and mounting plates for added strength.



STEP 5: Internal spring assembly. With spring catch aligned with spring hook as shown, insert left 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 (**J**) and nylon lock nuts (**R**). Repeat on right side.





 Item
 Part #
 Description

 1.
 1800421
 Aluminum Return Arm - Straight

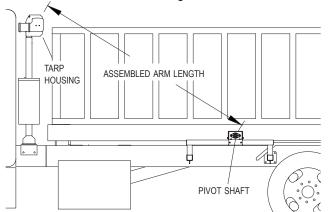
 2.
 1801636
 Spring Pivot Connector

 F.
 1800270
 Pan Hd. Screw - 5/16" x 2-1/4"

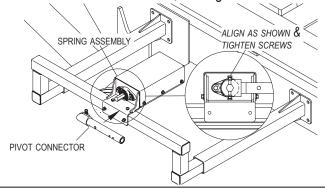
 P.
 1800990
 Lock Nut - 5/16"

 U.
 1800989
 Flat Washer - 5/16"

STEP 1: To determine assembled return arm length, measure from pivot shaft to top rear corner of tarp housing side plate. Subtract 4 inches from that measurement and cut return arms to this length.

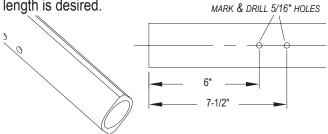


STEP 2: Turn spring shaft (counter-clockwise on left side and clockwise on right side) until you feel shaft contact hook on spring. Slide spring pivot connector onto shaft so connector is close to horizontal, then tighten screws.



STEP 3: Mark and drill 5/16 inch holes in lower end of arm. Cut arm to length before drilling holes if shorter arm length is desired.

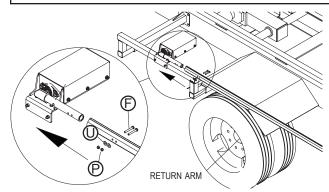
MARK & DRILL 5/16" HOLES

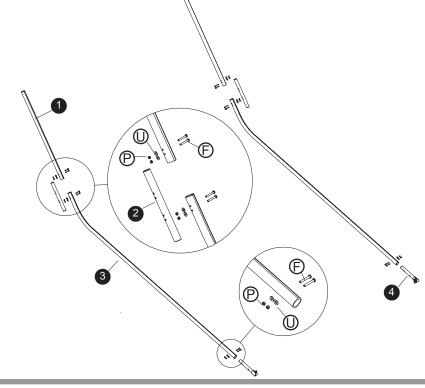


NOTES: If holes will not align well enough to insert bolts, run 5/16 inch drill bit through holes. Place bolt heads on inside of arms to prevent bolts from catching on container.

STEP 4: Slide return arm onto spring pivot connector. Align outer profiles to match and let end of arm rest on ground. Fasten return arms to spring pivot connectors with screws (**F**), washer (**U**) and nuts (**P**) as shown.

NOTE: To continue installation, turn to Tarp Tube Assembly & Tarp Installation on page 16.





STEP 1: Turn spring shaft (counter-clockwise on left side and clockwise on right side) until you feel shaft contact hook on spring. Slide spring pivot connector onto shaft so connector is close to horizontal, then tighten screws.

Description
Upper Aluminum Arm

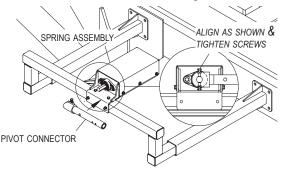
Arm Coupler

Lock Nut - 5/16"

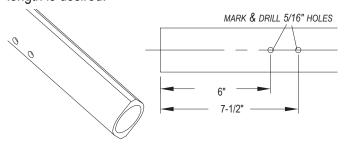
Flat Washer - 5/16"

Lower Aluminum Arm

Spring Pivot Connector Pan Hd. Screw - 5/16" x 2 1/4"

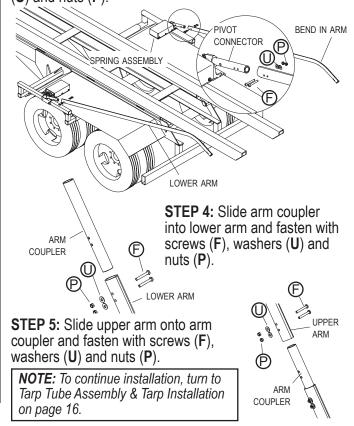


STEP 2: Mark and drill 5/16 inch holes in lower end of arm. Cut arm to length before drilling holes if shorter arm length is desired.



NOTES: If holes will not align well enough to insert bolts, run 5/16 inch drill bit through holes. Place bolt heads on inside of arms to prevent bolts from catching on container.

STEP 3: Slide lower arm onto pivot connector on spring assembly, positioning bend in arm as shown. Fasten lower arm to pivot connector with screws (**F**), washers (**U**) and nuts (**P**).



Item Part #

1800548

1800547

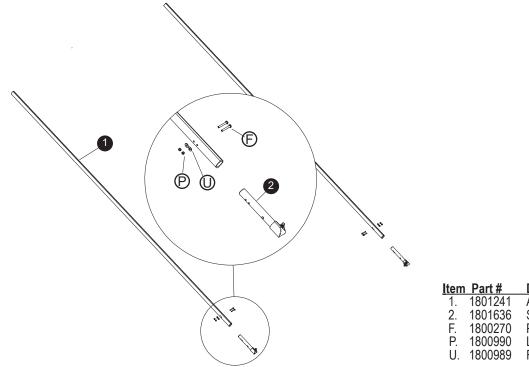
1800545

1801636

1800270

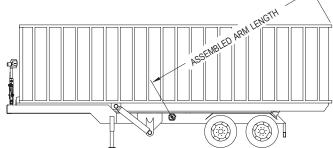
1800990

1800989

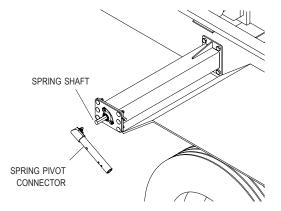


| Item Part # Description | 1. 1801241 | Aluminum Return Arm | 2. 1801636 | Spring Pivot Connector | F. 1800270 | Pan Hd. Screw - 5/16" x 2 1/4" | P. 1800990 | Lock Nut - 5/16" | U. 1800989 | Flat Washer - 5/16"

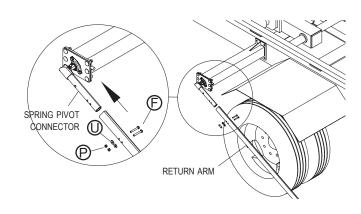
STEP 1: To determine assembled return arm length, measure from pivot shaft to top rear corner of largest container. Subtract 4 inches from that measurement and cut return arms to this length.



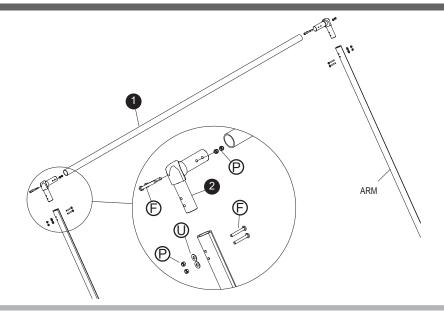
STEP 2: Turn spring shaft (counter-clockwise on left side and clockwise on right side) until you feel shaft contact hook on spring. Slide spring pivot connector onto shaft so connector is close to horizontal.



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 (**F**), washer (**U**) and nuts (**P**) as shown.



NOTE: To continue installation, turn to Tarp Tube Assembly & Tarp Installation on PAGE 16.



Item Part # Description

1800300 Rear Cross Piece - 109"

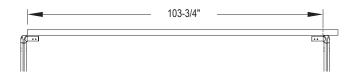
90° Cast Elbow 1800597

Pan Hd. Screw - 5/16" x 2-1/4" Nylon Lock Nut - 3/8" 1800270

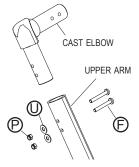
1800990

Flat Washer - 3/8" 1800989

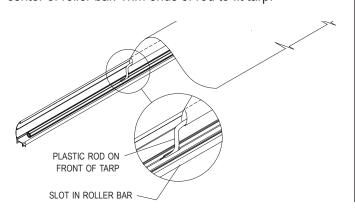
STEP 1: Mark and cut rear cross piece to 103-3/4 inches.



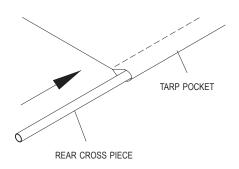
STEP 2: Insert cast elbow into upper arm and fasten with screws (F), washers (U) and nuts (P).



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

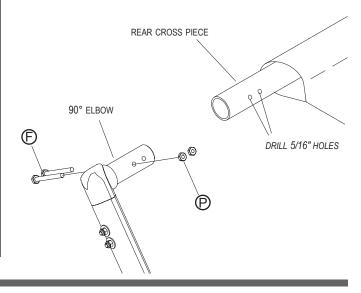


STEP 4: Slide rear cross piece into tarp pocket at rear of tarp.



STEP 5: Center tarp on roller bar and rear cross piece.

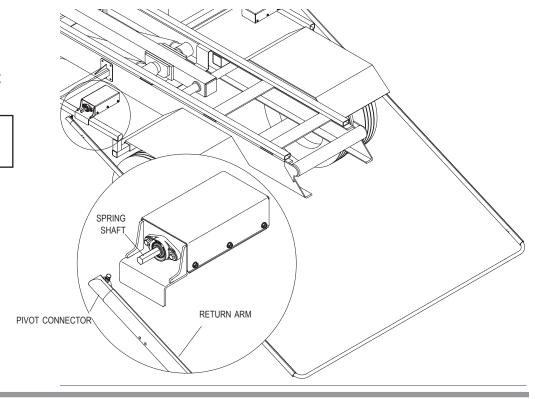
STEP 6: Insert rear cross piece into 90° elbows. Using holes in 90° elbow as guide, mark and drill 5/16 inch holes. Fasten with screws (F) and nuts (P).



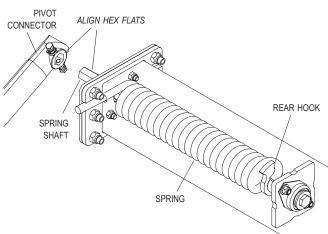
P/N 1811475 Rev. A Pre-Load Springs

STEP 1: With return arms resting on ground, slide pivot connector off spring shaft.

NOTE: See recommended pre-loads in STEP 3 before proceeding.



STEP 2: To pre-load spring, turn spring shaft (counter-clockwise for left side and clockwise for right side) until you feel shaft engage rear hook on spring. Use 7/8 inch 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.

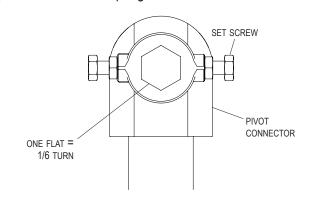


A W

WARNING

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.



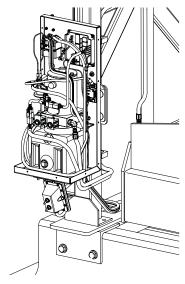
Recommended pre-loads:

Single axle kits - No pre-load needed in most applications.

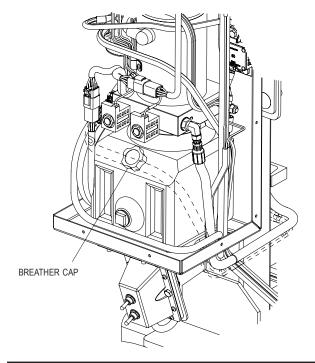
Tandem/multi-axle kits - One flat (1/6 turn) of pre-load can be added but do not exceed that amount or spring may be damaged. Tandem/multi-axle kits require less pre-load because spring loads up more quickly.

Trailers - Start by turning three flats (1/2 turn) of pre-load and increase as needed.

STEP 1: Remove pump enclosure cover and front panel to access pump assembly.



STEP 2: Remove reservoir shipping plug (red with square top) from top of plastic reservoir. Fill reservoir with Dexron automatic transmission fluid until it is just under the fill hole. Install black breather cap into fill hole to replace shipping plug. Red shipping plug can be thrown away or threaded into retainer at bottom of reservoir.



A CAUTION

Replace shipping plug with breather cap on hydraulic pump or pump will be damaged.

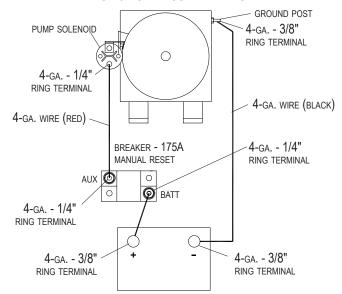
NOTE: It is recommended to disconnect pump positive cable from battery until pump has been filled with fluid.

CAUTION

Running the pump unit dry will damage the pump.

STEP 3: Make connections at battery as shown. Ensure 4-ga. cable/wire with red stripe is connected to pump solenoid and is routed to manual reset breaker and positive post of battery. Connect 4-ga. negative wire from stud on side of hydraulic pump to negative battery post.

HYDRAULIC PUMP ASSEMBLY - TOP VIEW



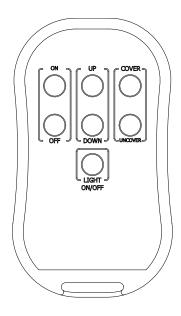
A CAUTION

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.

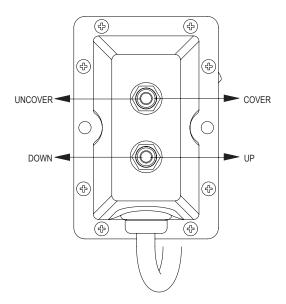
STEP 4: Operate pump with toggle switches to raise tower. Watch fluid level in reservoir while operating to make sure it does not empty and introduce air into the system. If fluid level gets within 1-1/2 inches of the reservoir bottom, add a few more ounces of fluid. After raising tower to maximum height, lower it back down again. Raise and lower 2 to 3 more times to help remove air from the system, then check fluid level with tower lowered all the way down. Fill reservoir until fluid is about 1/2 inch under fill hole and reinstall breather cap. Before reinstalling the enclosure front panel and cover, test operation of tower, tarp motor and work lights with both the toggle switches and with the wireless remote. See page 19. for operating instructions.

WIRELESS REMOTE & TOGGLE SWITCH OPERATION

When using wireless remote to operate QF4® system, first press ON button on remote to turn wireless unit on. After unit is turned on by pressing ON button, buttons utilized for tarp functions will be operational. When finished operating system, press OFF button to shut down wireless unit.

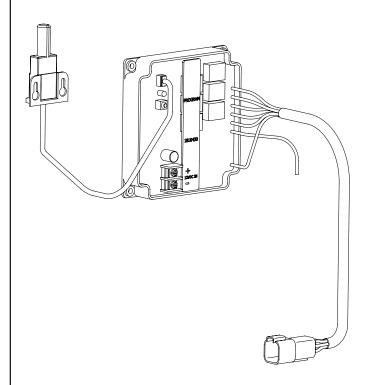


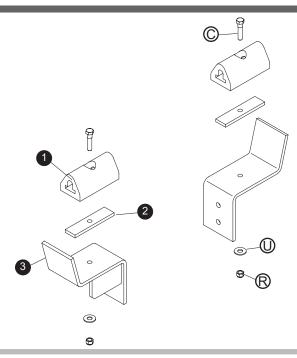
To operate system utilizing toggle switches on control box, push toggles in direction shown for each function.



PAIRING REMOTE

To pair remote to control module, press button directly below light on control module. Red light will turn on. Press any button on remote to make connection. Wait for light to flash and turn off, and transmitter will be programmed.





 Item
 Part #
 Description

 1.
 1801012
 Rubber Bumper

 2.
 1800140
 Bumper Hold-Down Bar

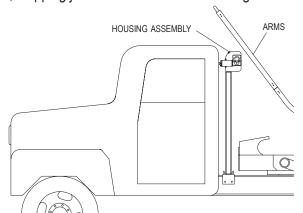
 3.
 1801324
 Pivot Arm Rest

 C.
 1800998
 Cap Screw - 5/16" x 1"

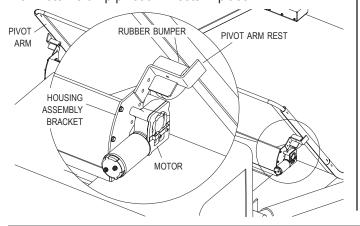
 R.
 1800995
 Lock Nut - 5/16"

 U.
 1800989
 Flat Washer - 5/16"

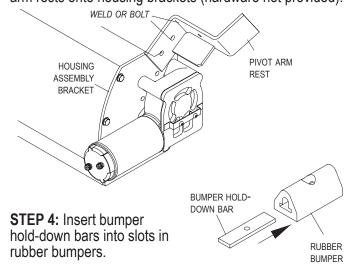
STEP 1: Wind tarp open until arms are completely forward, stopping just before arms reach housing assembly.



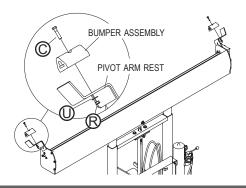
STEP 2: Position rubber bumpers on pivot arm rests. Align components on housing assembly brackets, adjusting so pivot arms rest evenly on rests and do not interfere with motor. Clamp pivot arm rests in place.

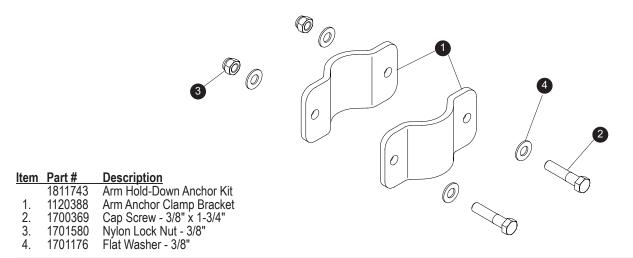


STEP 3: Remove rubber bumpers and weld or bolt pivot arm rests onto housing brackets (hardware not provided).



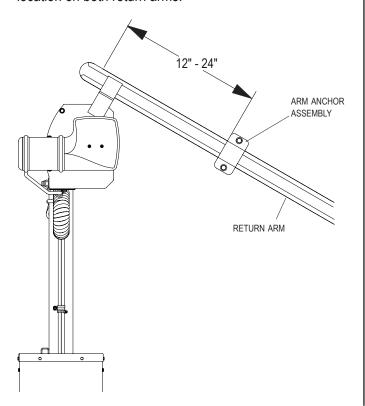
STEP 5: Fasten bumper assemblies to pivot arm rests with screws (**C**), washers (**U**) and nuts (**R**).



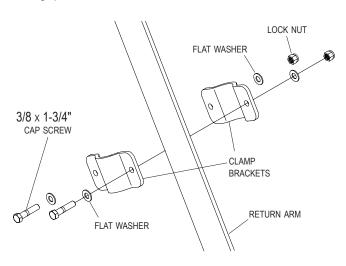


For customers that wish to tie-down the return arms, these optional anchor brackets can be easily installed and used as an attachment point for tie-down straps (provided by customer).

STEP 1: Ideally, return arm hold-down anchors should be located 12 to 24 inches from ends of return arms. If location is too high to reach from the ground, adjust hold down anchor location to be as close to the end of the arm as possible and still be reachable from the ground. Hold-down anchor assemblies should be installed at the same location on both return arms.



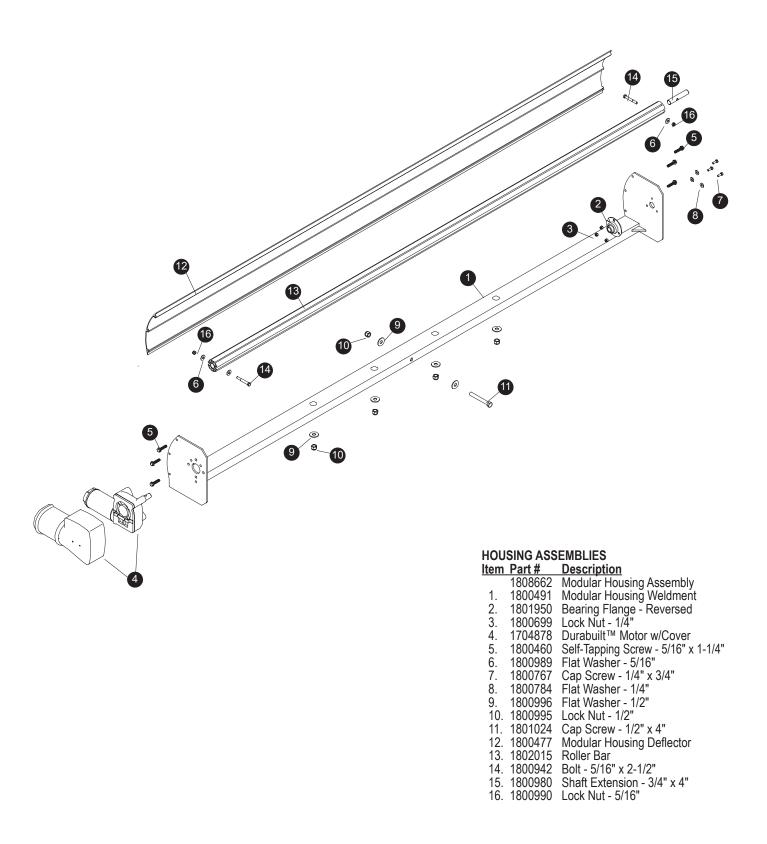
STEP 2: Align clamp brackets around return arm. Fasten with 3/8 inch x 1-3/4 inch cap screws, flat washers and lock nuts. Tighten fasteners until clamp brackets are secured to arm. There will be an approximately 3/8 to 1/2 inch gap between the brackets.

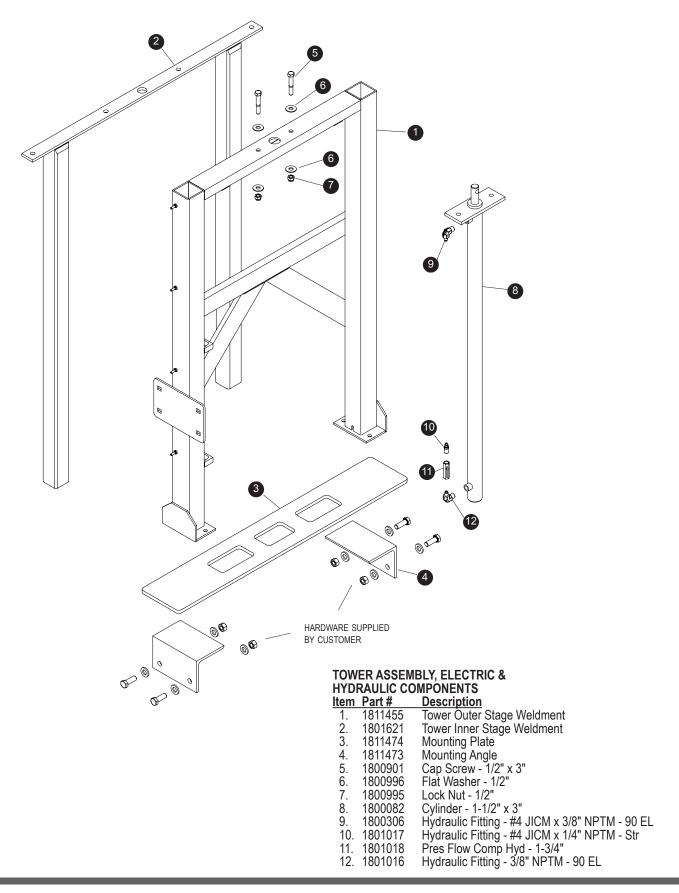


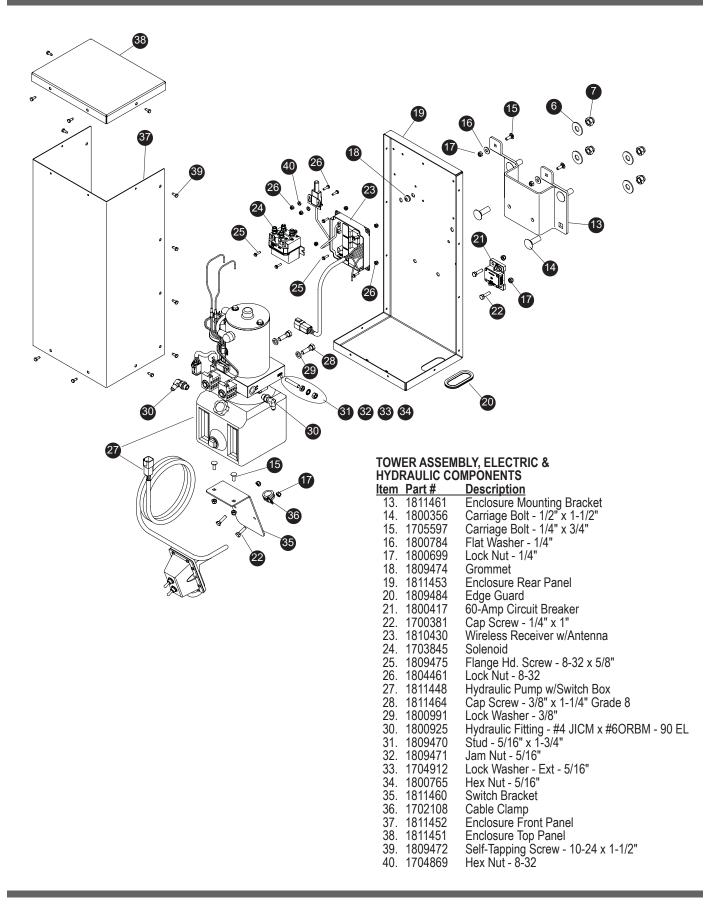
NOTE: Tie-down straps are not provided. Use caution when using tie-downs. Always wear eye protection, and keep face clear of straps/tie-downs.

A CAUTION

Always wear eye protection and keep face clear of tie-downs/straps.



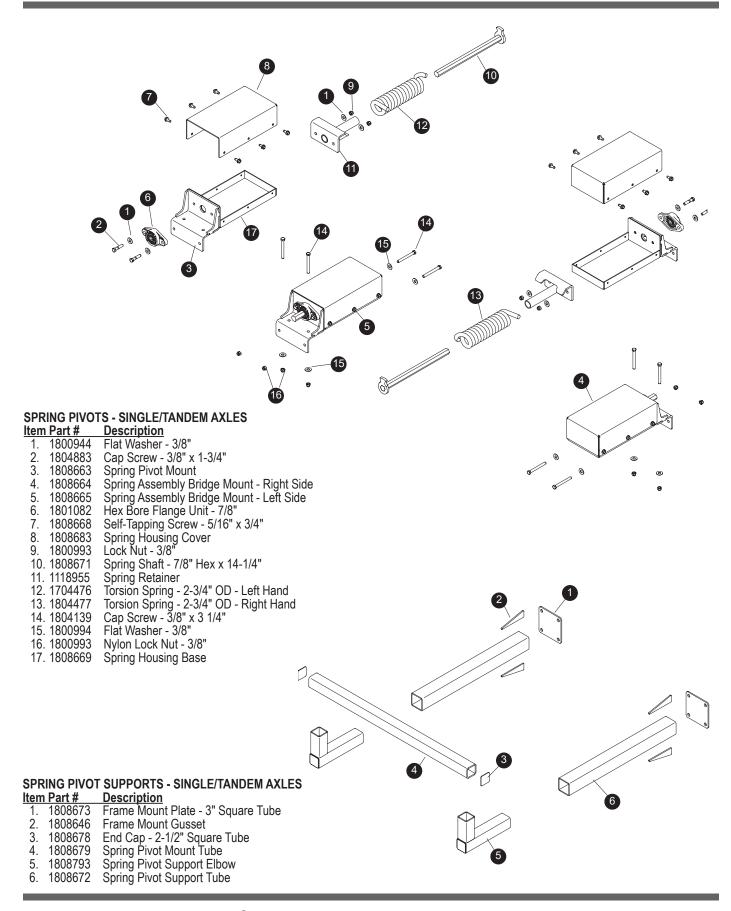


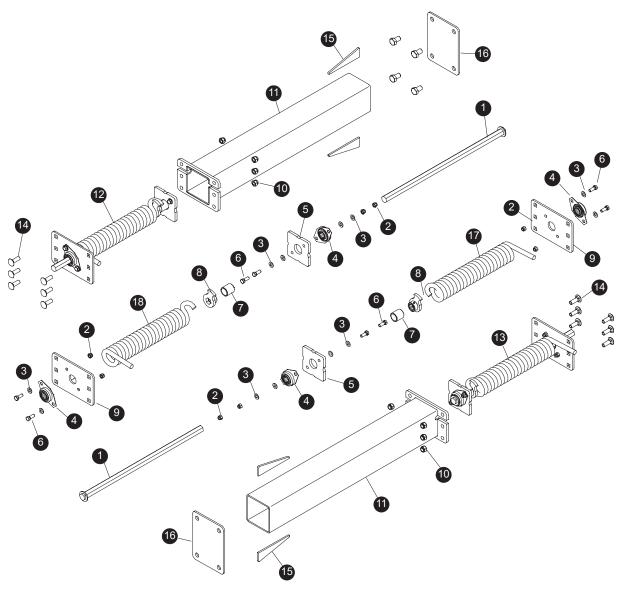


TOWER ASSEMBLY, ELECTRIC & HYDRAULIC COMPONENTS

TOW	ER ASSEM	BLY, ELECTRIC & HYDRAULIC COMPONENTS		
<u>Item</u>	Part #	<u>Description</u>		
41. 42	1801627 1704719	Hydraulic Hose - 84" OAL LED Work Light		
43.	1800220	4-Ga. Dual-Conductor Wire - 16'		
44.	1811465	Motor Power Wire Assembly		,
45.	1810425	Coiled Wire	41	42
46.	1811466	Power Jumper Wire		
	1811467 1705800	14-Ga. Ground Wire Ring Terminal - 18-Ga. x 5/16"		600
49.	1705072	Q-Disc Terminal - 18-Ga. x 1/4" - Male		000
50.	1705073	Q-Disc Terminal - 18-Ga. x 1/4" - Female		
51.	1800158	Ring Terminal - 4-Ga. x 3/8"	UNIC	
	1800302 1800658	Ring Terminal - 4-Ga. x 1/4" Ring Terminal - 6-Ga. x 1/4"		
54.	1811476	Circuit Breaker - 175 Amp	4 3	
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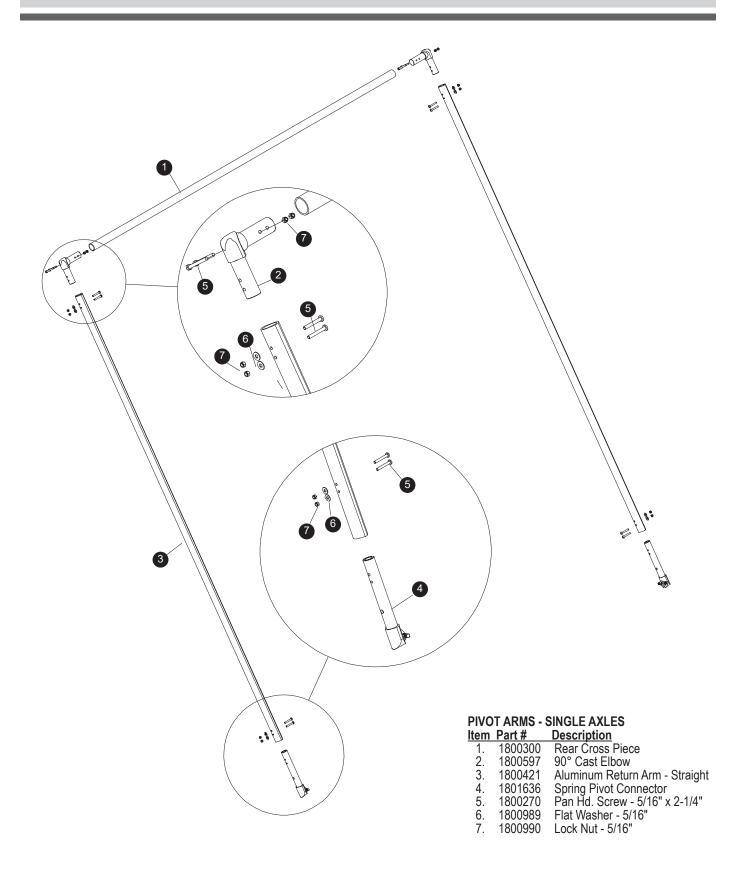
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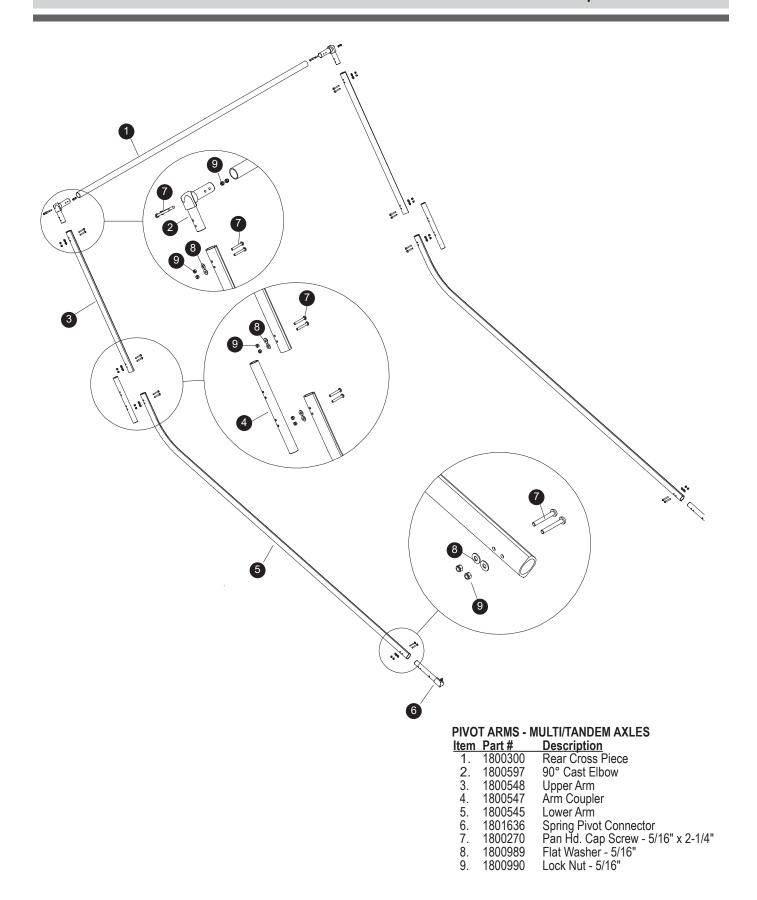


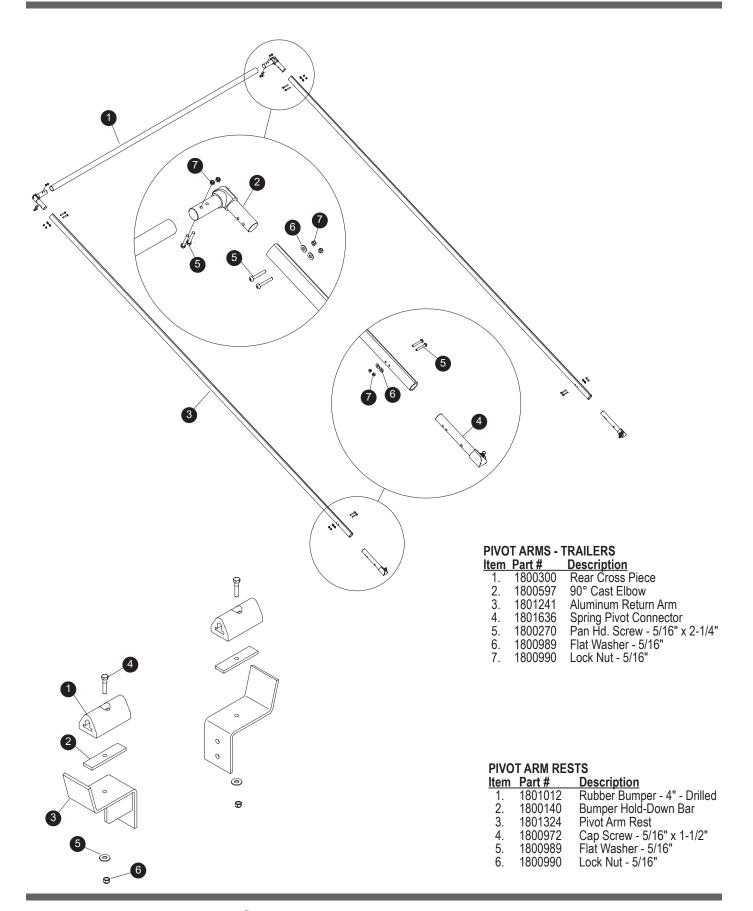


SPRING PIVOTS	- TRAILER
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Item Part #	Description
1. 1808636	Spring Shaft - 7/8" x 23-1/4"
2. 1800993	Lock Nut - 3/8"
3. 1803979	Washer - 3/8" SAE
4. 1801243	Hex Bearing - 7/8"
5. 1808639	Inner Bearing Plate
6. 1800795	Hex Bolt - 3/8"
7. 1808638	Bearing Spacer
8. 1808637	Spring Catch - 7/8"
9. 1808640	Outer Bearing Plate
10. 1800995	Lock Nut - 1/2" Grade 5
11. 1808641	Spring Pivot Tube
12. 1808635	Internal Mount Spring Assembly - Left Side
13. 1808634	Internal Mount Spring Assembly - Right Side
14. 1800356	Carriage Bolt - 1/2" x 1-1/2"
15. 1808646	Frame Mount Gusset
16. 1808645	Frame Mount Plate - 4-1/2"
17. 1800280	Spring - 22 Coil Right
18. 1800279	Spring - 22 Coil Left







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