

# Quick-Flip II<sup>™</sup> - 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<sup>®</sup>, LLC Terms & Conditions

#### SHIPPING. Orders are shipped F.O.B.

from the Shur-Co®, LLC sites listed below. No full freight is

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

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

Returns of a product for warranty must be accompanied by a Return Merchandise Authorization number (RMA#), obtained by by calling Customer Service at 866-748-7435, and sent, with freight paid by us, to Shur-Co<sup>®</sup>, 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<sup>®</sup>, LLC parts in conjuction with Shur-Co<sup>®</sup>, LLC products will void this product warranty. \*Certain 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

#### ShurTite<sup>™</sup> Service Centers

SHUR-CO<sup>®</sup> 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 SHUR-CO<sup>®</sup> of COLORADO 10220 Brighton Rd., Unit #1

Henderson, CO 80640 Ph 866.355.9173 | Fax 303.289.2298

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

3839 Midway Blvd. Ft. Dodge, IA 50501 Ph 866.356.0245 | Fax 515.576.5578

#### SHUR-CO® of MICHIGAN

5100 Lakeshore Dr. Lexington, MI 48450 Ph 800.327.8287 | Fax 772.287.0431 SHUR-CO® of NORTH DAKOTA 1746 4th Ave. NW West Fargo, ND 58078 Ph 877.868.4488 | Fax 701.277.1283

SHUR-CO® of OHIO 1100 N. Freedom, St. Rt. 88 & 14 Ravenna, OH 44266 Ph 866.356.0242 | Fax 330.297.5599

SHUR-CO® of TEXAS 34505 I-10 West, S. Frontage Rd. Brookshire, TX 77423 Ph 866.689.0039 | Fax 281.934.3311

**SHUR-CO® UK, Ltd.** Unit 41 Rochester Airport Estates Laker Rd., Rochester, Kent ME1 3QX Ph +44 (0)1795.473499 Fax +44 (0)871.272.8278

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

#### MESSAGE TO OWNERS

Thank you for buying this tarping system from Shur-Co<sup>®</sup>. 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 and repair or replace worn or damaged parts.

## QUESTIONS? CALL OUR FL HELP LINE: **1-800-327-8287** MON-FRI 8 AM-5 PM EASTERN TIME

## SAFETY

We at Shur-Co<sup>®</sup> 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<sup>®</sup> 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.

#### TABLE OF CONTENTS

Hardware Identification	1
Clearance Requirements	2
Base Assembly Installation	2
Housing Assembly Installation	3
Spring Box Installation	4
Pivot Arm Installation	5
Tarp Installation	6
Electric Hook-Up	7-10
Spring Box Cover Installation	11
Upper Arm Rest Installation	12
Replacement Parts	

## TOOLS REQUIRED

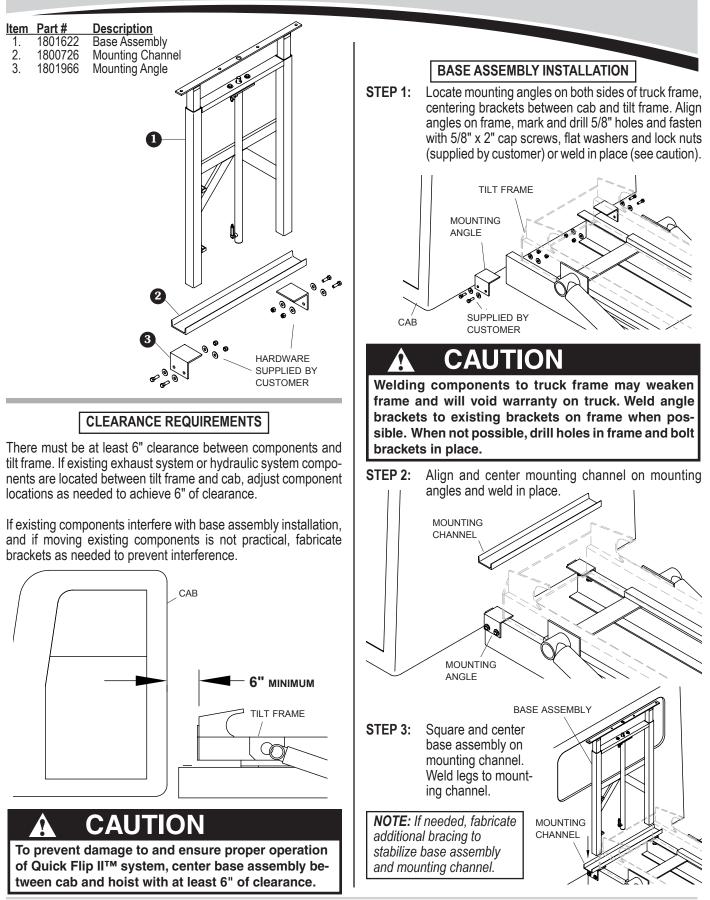
- 1. Wrenches 1/2", 5/16", 9/16", 5/8", 3/4", 7/8"
- 2. Ratcheting Socket Wrench
- 3. Sockets 1/2", 9/16", 3/4"
- 4. Allen Wrenches 1/8", 5/32", 3/16"
- 5. Drill Bits (metal cutting) 5/16", 3/8", 1/2", 3/16"
- 6. Center Punch
- 7. Hammer
- 8. Tape Measure
- 9. Flat Head or Phillips Screwdriver
- 10.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

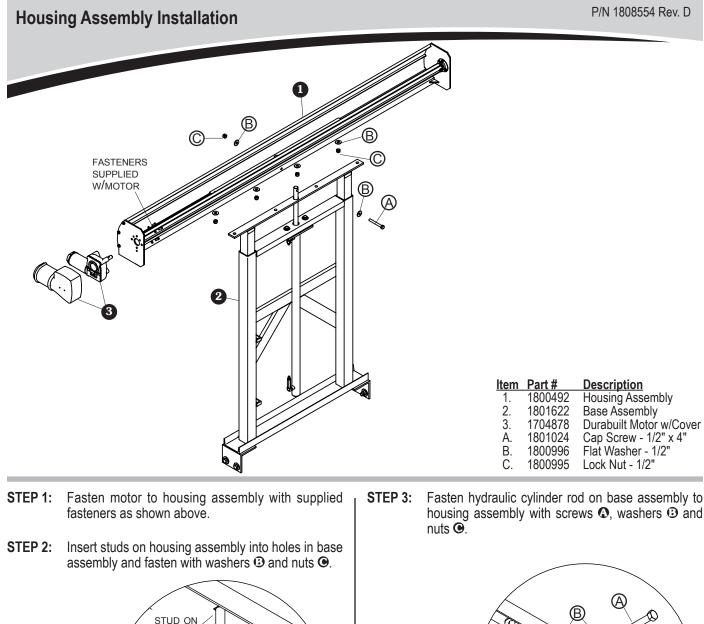
#### MAINTENANCE

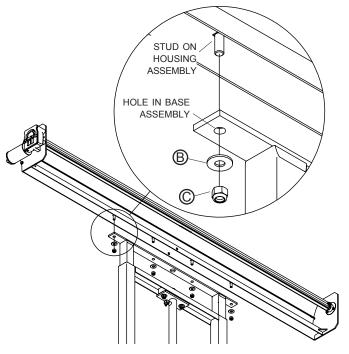
- Spray all bearings and drive chain with penetrating oil as needed.
- Brush springs with steel brush weekly to remove dirt and spray with penetrating oil.
- · Tighten any loose bolts.
- Replace damaged/bent parts.
- Replace worn or broken springs.
- · Replace/repair worn or damaged tarps.

Hardware Identification	P/N 1808554 Rev. D
	1801024 Cap Screw - 1/2" x 4"
HOUSING HARDWARE	B O
Item Part # Description Qty.	1800996 Flat Washer - 1/2"
A. 1801024 Cap Screw - 1/2" x 4" 1 B. 1800996 Flat Washer - 1/2" 6	
C. 1800995 Lock Nut - 1/2" 5	C C
SPRING BOX HARDWARE	1800995 Lock Nut - 1/2"
Item Part # Description Qty.	
D. 1801629 Carriage Bolt - 5/8" x 2 1/2" 8	1801629 Carriage Bolt - 5/8" x 2 1/2"
E. 1801555 Flat Washer - 5/8" 8	
F. 1801554 Lock Nut - 5/8" 8	
PIVOT ARM HARDWARE	1801555 Flat Washer - 5/8"
Item Part # Description Qty.	
G. 1800561 Pan Hd. Cap Screw - 5/16" x 2 1/4" 20	
H. 1800989 Flat Washer - 5/16" 20	1801554 Lock Nut - 5/8"
J. 1800990 Lock Nut - 5/16" 20	
SPRING BOX COVER HARDWARE	1800561 Pan Hd. Cap Screw - 5/16" x 2 1/4"
Item Part # Description Qty.	1800989 Flat Washer - 5/16"
K. 1801439 Pan Hd. Cap Screw - 5/16" x 3/4" - SS 4	
L. 1800900 Flat Washer -	1800990 Lock Nut - 5/16"
5/16" - SS 4	
PIVOT ARM REST HARDWARE	1801439 Pan Hd. Cap Screw - 5/16" x 3/4" - SS
Item Part # Description Qty.	
M. 1800998 Cap Screw - 5/16" x 1" 2 J. 1800990 Lock Nut - 5/16" 2	1800900 Flat Washer - 5/16" - SS
H. 1800989 Flat Washer - 5/16" 2	
ELECTRIC/HYDRAULIC HARDWARE	1800998 Cap Screw - 5/16" x 1"
Item Part # Description Qty.	
N. 1800790 Cap Screw - 3/8" x 1 1/2" 2	1800790 Cap Screw - 3/8" x 1 1/2"
P. 1800991 Lock Washer - 3/8" 2	
ELECTRIC HARDWARE	1800991 Lock Washer - 3/8"
Item Part # Description Qty.   Q. 1800783 Cap Screw - 1/4" x 1 1/2" 2	1800802 Sheet Metal Screw - #10 x 1"
R. 1800442 Flat Washer - 1/4" SAE 6	
S. 1800699 Lock Nut - 1/4" 2 T. 1800802 Sheet Metal Screw - #10 x 1" 4	1800783 Cap Screw - 1/4" x 1 1/2"
U. 1800787 Lock Washer - 5/16" 4	1800442 Flat Washer - 1/4"
V. 1800431 Hex Nut - 5/16" 4	
TARP INSPECTION	1800787 Lock Washer - 5/16"
<b>Tarp length:</b> Measure tarp length with slight tension applied. Compare actual tarp length with length stated on sheet attached to tarp. If actual	1800699 Lock Nut - 1/4"
tarp length does not match length on sheet, do not proceed. Call your	
local dealer or Shur-Co <sup>®</sup> FL Customer Service at 1-800-327-8287.	1800431 Hex Nut - 5/16"

### **Base Assembly Installation**





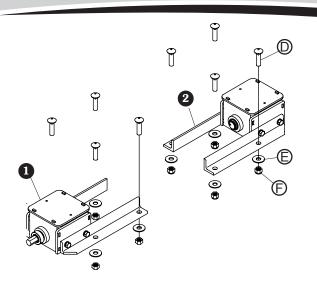


BASE ASSEMBLY

HOUSING ASSEMBLY B.

6

HYDRAULIC CYLINDER ROD

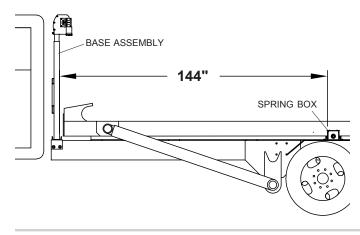


ltem	Part #	Description
1.	1800555	Spring Box Assembly - Driver Side
2.	1800556	Spring Box Assembly - Passenger Side
D.	1801629	Carriage Bolt - 5/8" x 2 1/2"
E.	1801555	Flat Washer - 5/8"
F.	1801554	Lock Nut - 5/8"

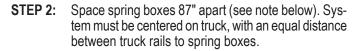
**NOTE:** Fenders on most stock trucks are not strong enough to support spring boxes. To support weight and torsion of spring box, a support frame must be fabricated. In order for system to operate correctly, fenders must be square and level.

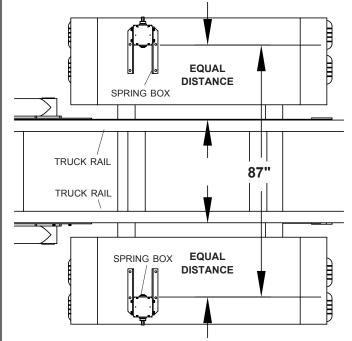
**IMPORTANT:** Locate spring box as low on truck frame as possible to allow clearance between roll-off container and spring box. Top of spring box must be less than 5" above rollers used to support container. If needed, pull container onto truck and check for clearance.

**STEP 1:** Locate spring boxes on truck fenders or on support frame, with 144" between base assembly and front of spring boxes.



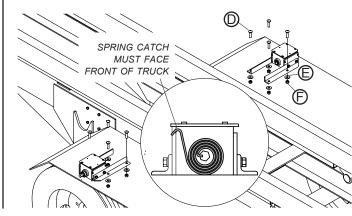
**NOTE:** Recommended distance needed for spring boxes to support arms for a 40-yard container is 144" from base assembly to spring box. To assure containers are covered and arms do not extend past rear of container, move container onto truck and center spring boxes between base assembly and back of container.

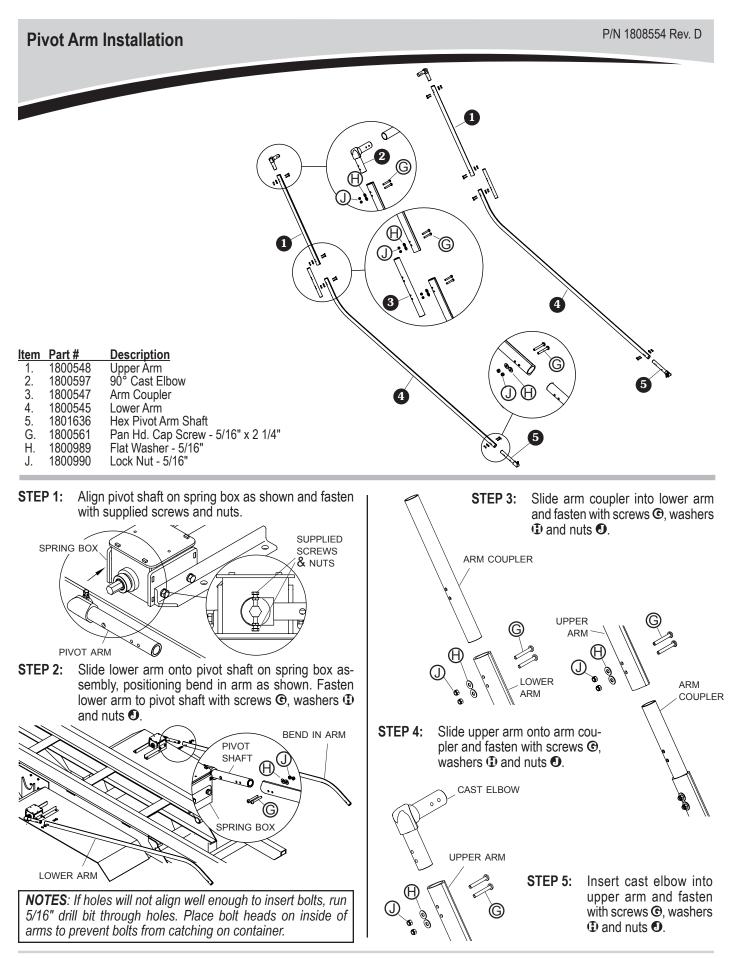


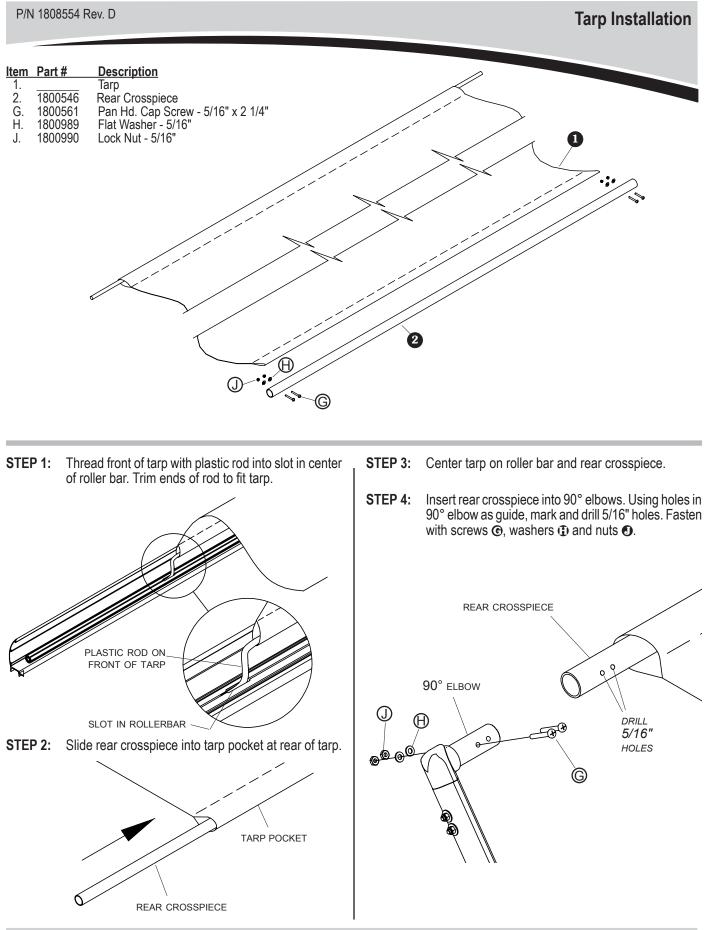


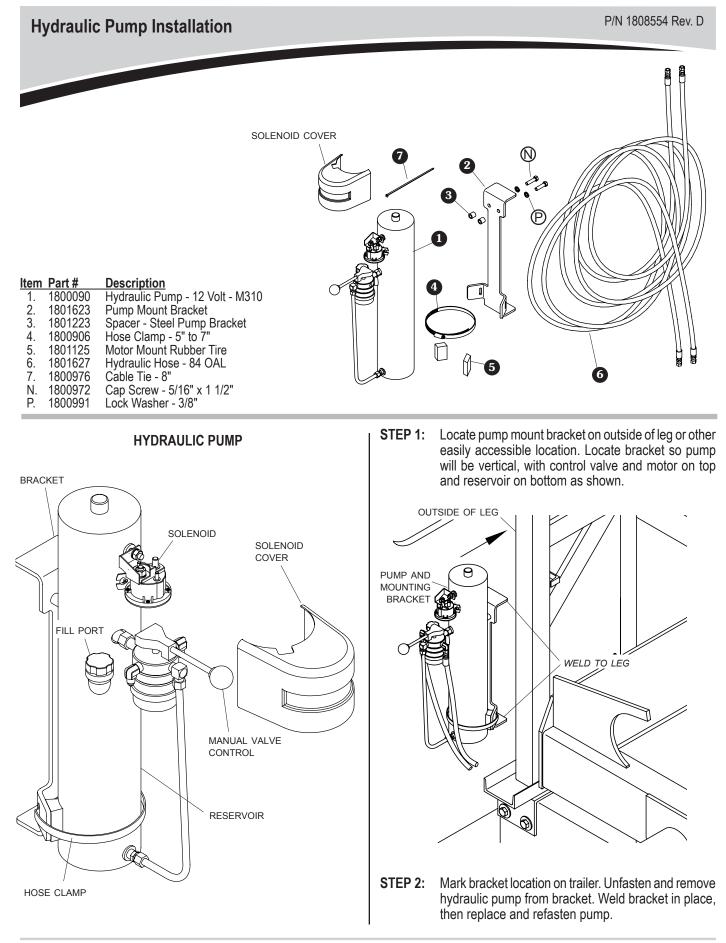
**NOTE:** Spring boxes may be welded in place if fenders are strong enough or customer-fabricated supports are used.

**STEP 3:** Fasten spring boxes and backing plates to fenders on truck with carriage bolts **①**, washers **③** and nuts **④**.

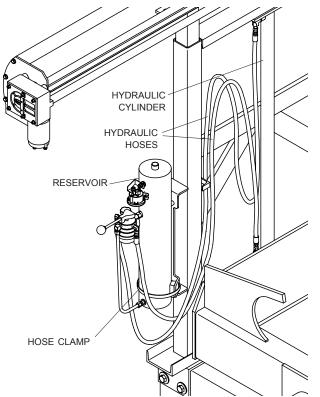




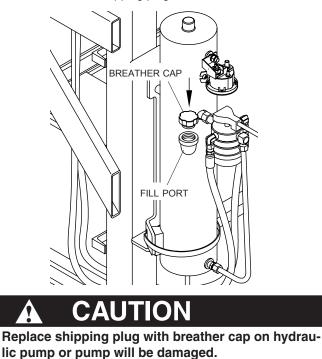




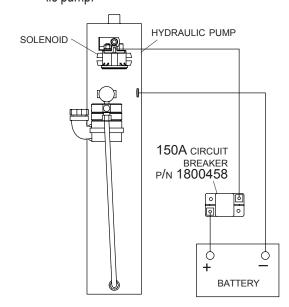
**STEP 3:** Connect hoses from hydraulic pump to hydraulic cylinder, making sure hose clamps are tight around reservoir.



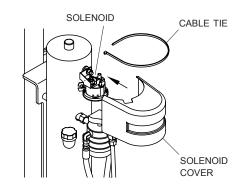
**STEP 4:** Remove shipping plug from fill port and fill pump with approximately 4 quarts Dexron automatic transmission fluid. Install breather cap onto fill port. Do not reinstall shipping plug.



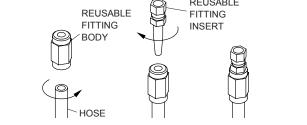
**STEP 5:** Connect negative wire from battery to stud on hydraulic pump.



- **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**

	Part # 1800418	Description Solenoid	♥ <sup>®</sup>
	1800429	Solenoid Cover	
	1807726	Toggle Switch	
	1801265	Toggle Switch Plate	
	1800302	Ring Terminal - 8 Ga. x 1/4"	
0. 7	1800158 1800417	Ring Terminal - 8 Ga. x 3/8" Circuit Breaker - 60-Amp 12V	
	1800441	Butt Connector - 18-22 Ga.	$\mathbb{R}$
Q.	1800783	Cap Screw - 1/4" x 1 1/2"	
R.	1800442	Flat Washer - 1/4" SAE	
	1800699	Lock Nut - 1/4"	
	1800802 1800787	Sheet Metal Screw - #10 x 1" Lock Washer - 5/16"	<b>B</b>
	1800431	Hex Nut - 5/16"	

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

## 

Do not spray electric components with pressure washer or hose.

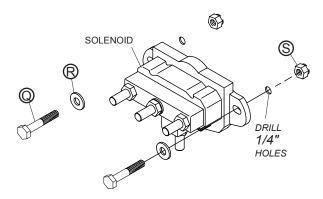
# 

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

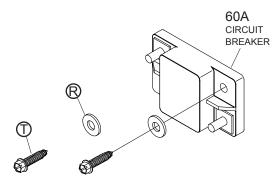
**NOTE:** Cut wires to length and strip only enough wire insulation to install ring terminals. Insert bare wire into ring terminals and crimp securely.

CRIMP SECUREI

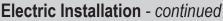
STEP 1: Locate solenoid in sheltered location such as battery box, cab or under cab. Using solenoid as guide, mark and drill 1/4" holes. Loosely fasten solenoid with screws ①, washers ③ and nuts ③.



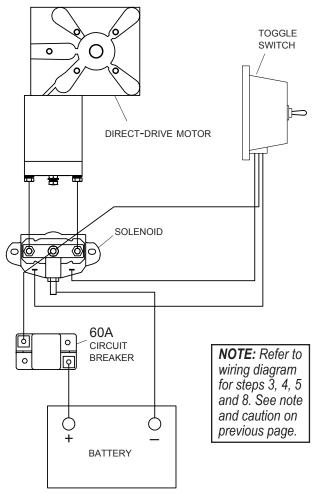
**STEP 2:** Locate circuit breaker near battery. Fasten with screws **①** and washers **①**.



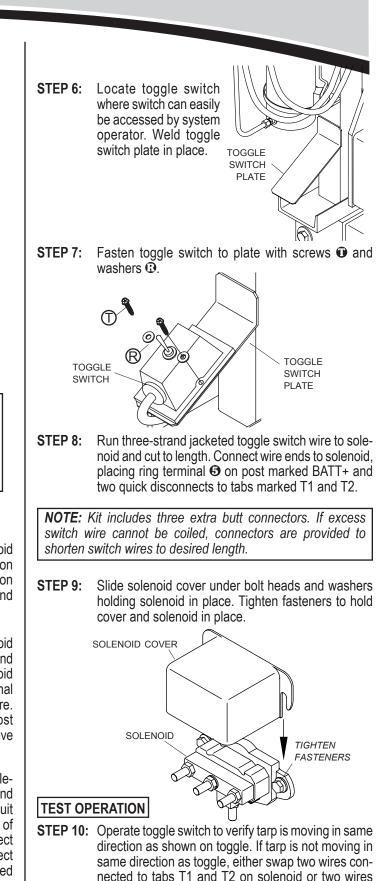
RING TERMINAL



WIRING DIAGRAM



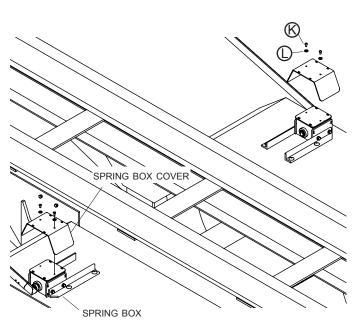
- STEP 4: Cut section of dual-conductor wire to run from solenoid to battery. Crimp two 3/8" ring terminals <sup>(1)</sup> on one end of wire and connect terminals to posts on solenoid marked Batt+ and Batt-. Crimp one 1/4" ring terminal <sup>(3)</sup> and one 3/8" ring terminal <sup>(3)</sup> on other 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 <sup>(G)</sup> onto one end of wire and 1/4" ring terminal <sup>(G)</sup> 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.



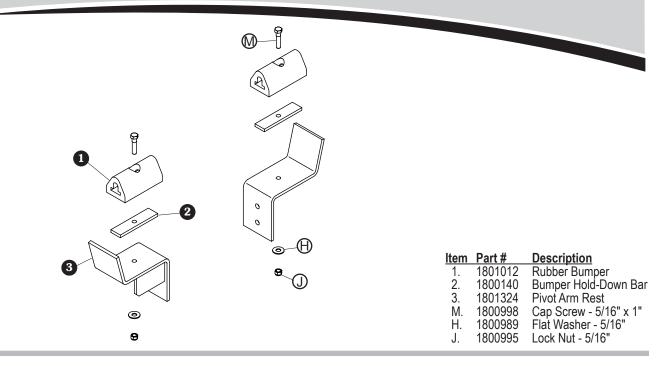
connected to motor.

Spring Box Cover Installation	P/N 1808554 Rev. D
	° ©
Item Part # Description 1. 1800560 Spring Box Cover K. 1801439 Pan Hd. Cap Screw - 5/16" x 3/4" - SS L. 1800900 Flat Washer - 5/16" - SS	

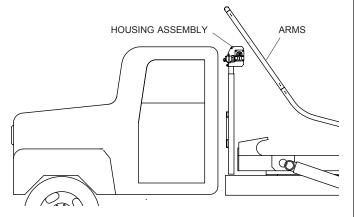
**STEP 1:** Fasten spring box covers to spring boxes with screws  $\mathfrak{O}$  and washers  $\mathfrak{O}$ .



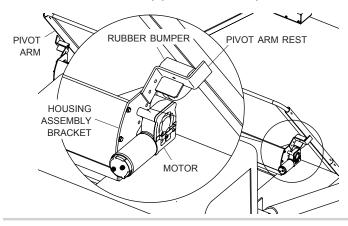
## **Pivot Arm Rest Installation**



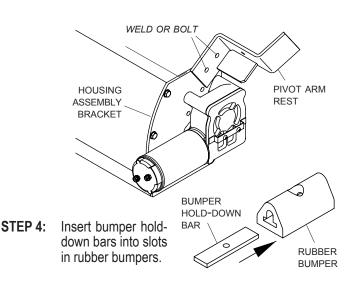
**STEP 1:** Wind tarp open until arms are completely forward, stopping just before arms reach housing assembly.



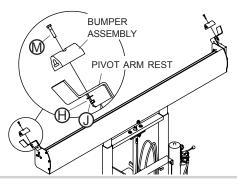
**STEP 2:** Position rubber bumpers on pivot arm rests. Align components on housing assembly brackets, adjusting so pivot arms rest evenly on rests and do not interfere with motor. Clamp pivot arm rests in place.

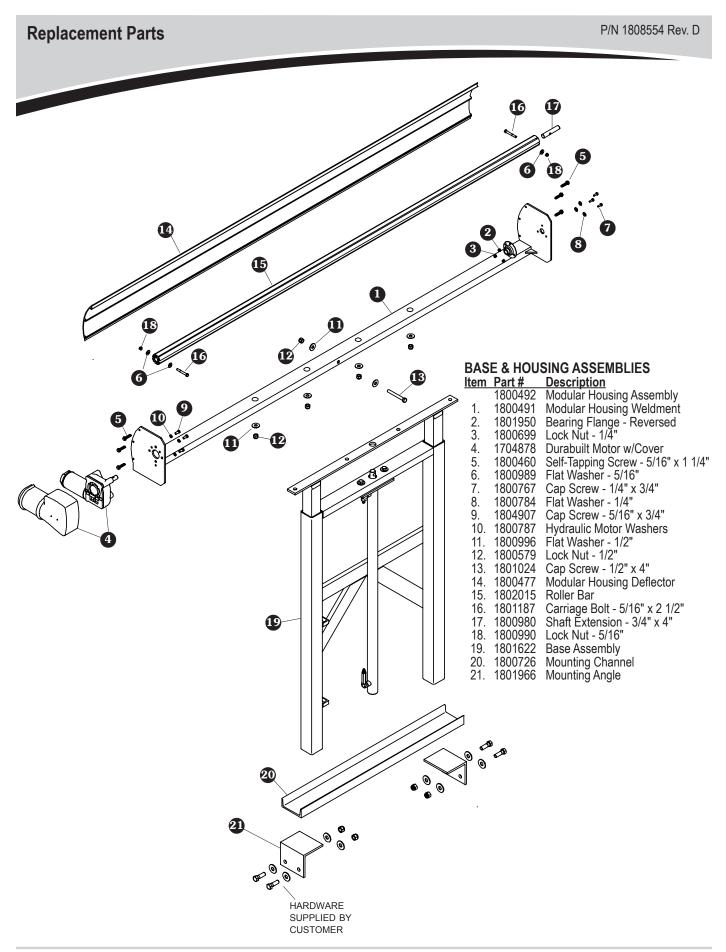


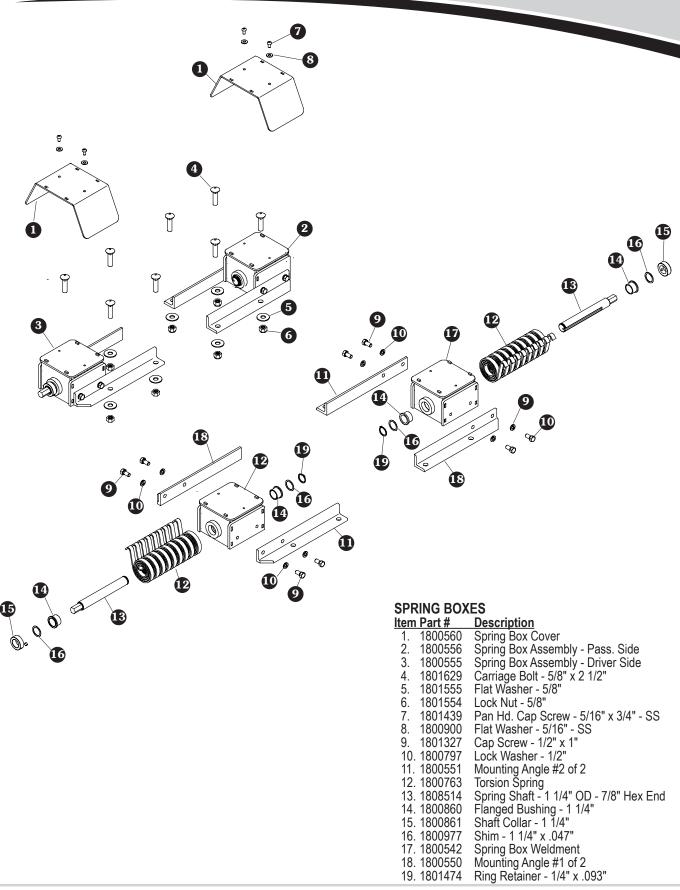
**STEP 3:** Remove rubber bumpers and weld or bolt pivot arm rests onto housing brackets (hardware not provided).

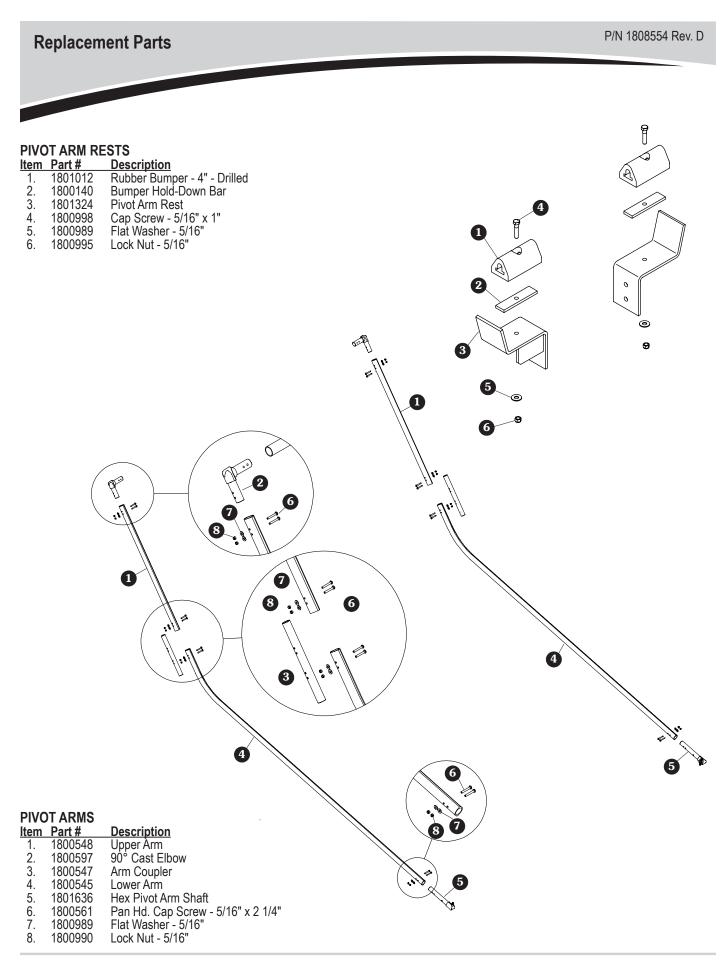


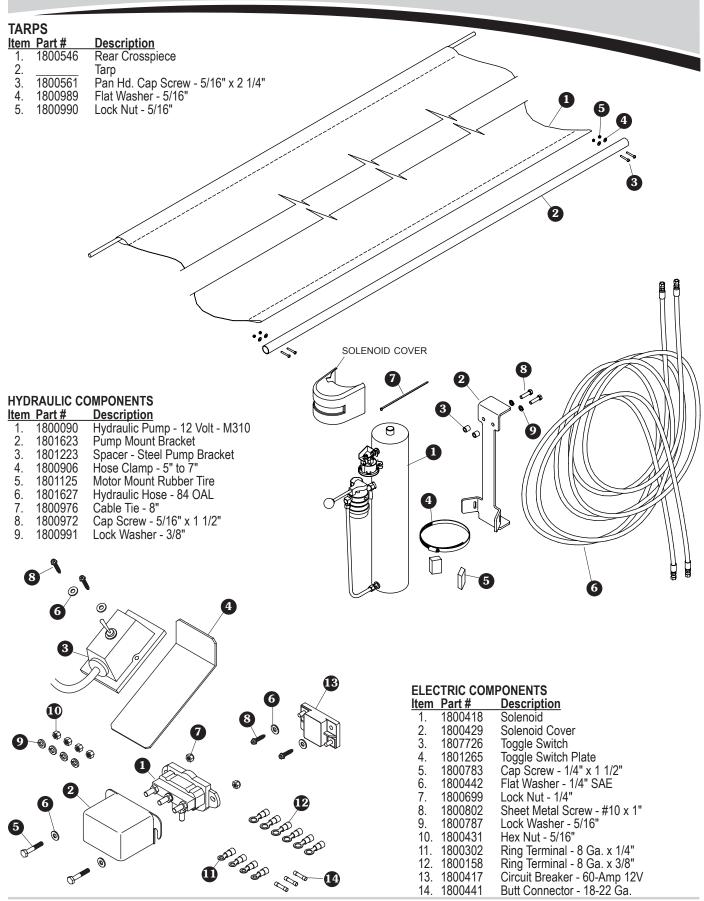
**STEP 5:** Fasten bumper assemblies to pivot arm rests with screws  $\mathfrak{O}$ , washers  $\mathfrak{O}$  and nuts  $\mathfrak{O}$ .











# MORE QUALITY PRODUCTS FROM DONOVAN $^{\mbox{\tiny TM}}$

- Construction Products
  - Arm-Matic<sup>™</sup>
  - DuraPull™
  - Econo-Pull™
  - Turbo Tarp2<sup>™</sup>
  - 2000 Series
  - 5000 Series
  - Hammer<sup>™</sup>
  - Bullet<sup>™</sup>
  - Flash™
  - Long Arm<sup>TM</sup>

- Waste Products
  - **SWAT** TM
  - The  $Ox^{TM}$
  - Quick-Flip III<sup>™</sup>
  - Sidewinder™
  - Sidewinder<sup>™</sup> 350
  - HyTower<sup>™</sup> SL
  - $HyTower^{TM} DL$
  - Double-Flip<sup>™</sup>
  - Donovan Belt & Ratchet (DBR)

