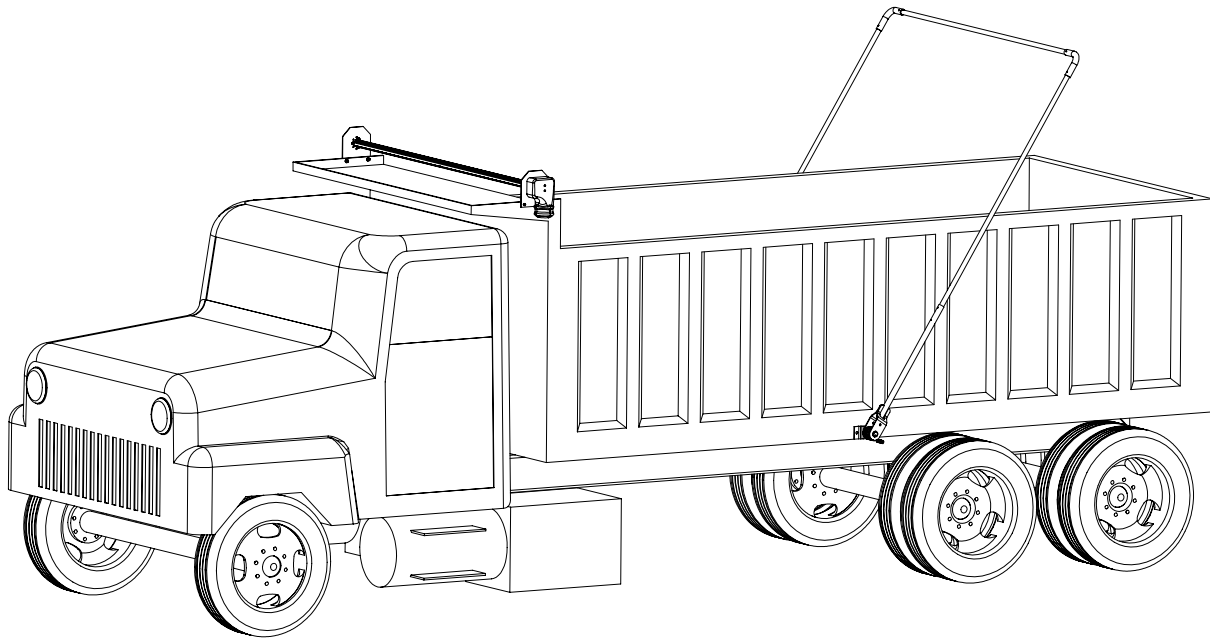




# 6000 TARPING SYSTEM

For Dump Bodies up to 18' Long



# OWNER'S MANUAL

10/11/07

Donovan Enterprises, 3353 SE Gran Park Way, Stuart FL 34997  
800-327-8287

## 6000 TARPING SYSTEM

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### BEFORE INSTALLATION BEGINS

- READ AND UNDERSTAND OWNER'S MANUAL.
- UNPACK SYSTEM AND CHECK ALL PARTS AGAINST PACKING LIST.



**PART LIST 6000 TARPING SYSTEM  
(6000ELD PART# 2221, 6000GL PART# 2222)**

ITEM#	BALLOON	DESCRIPTION	QTY
3678	1	STEEL BEARING PLATE WITH BEARING	1
2464		3/8" - 16 X 1.5" HEX BOLT	2
2875		3/8" FLAT WASHER	2
2874		3/8" - 16 LOCK NUT	2
3807R	2	ALUMINUM ROLLER BAR	1
2838		3/4" OD STEEL EXTENSION SHAFT	1
3237		5/16"-18 CARRIAGE BOLT, 2 1/2" LG	2
2868		5/16"-18 LOCKNUT	2
2867		5/16 FLAT WASHER	2
1912	6	UPPER ARMS	2
2801		5/16"-18 HEX HEAD BOLT, 2 1/2" LG	6
2868		5/16"-18 LOCKNUT	6
1908	7	REAR CROSS PIECE	1
2801		5/16"-18 HEX HEAD BOLT, 2 1/2" LG	2
2868		5/16"-18 LOCKNUT	2
1979	8	UPPER 90° TUBE	2
NONE	9	PIVOT BASE ASSEMBLY	2
1913		PIVOT MOUNT	2
1907		PIVOT ARM WELDMENT	2
2416		TORSION SPRINGS	8
2833		1 1/4" ID SHIM	2
2834		1 1/4" RETAINING RING	2
1309		1/2"-13 CARRIAGE HEAD BOLT, 1 1/2" LG	4
2877		1/2"-13 LOCKNUT	4
2878		1/2" FLAT WASHER	4

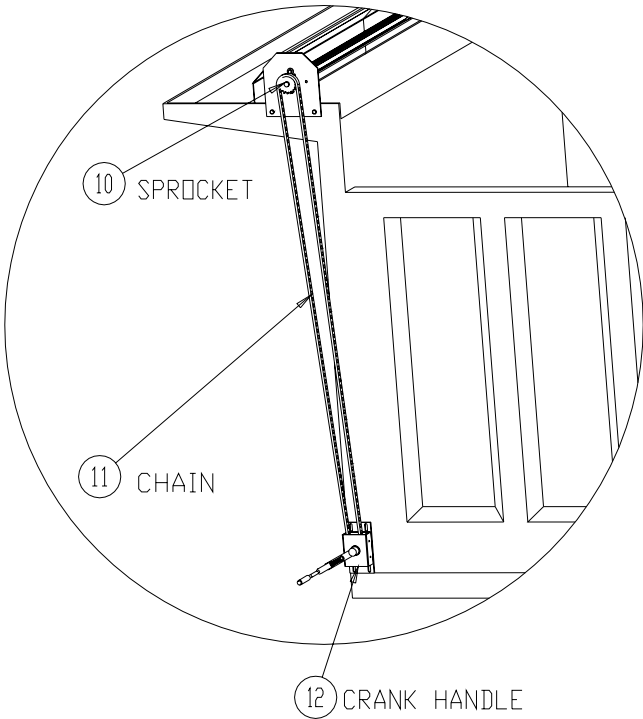
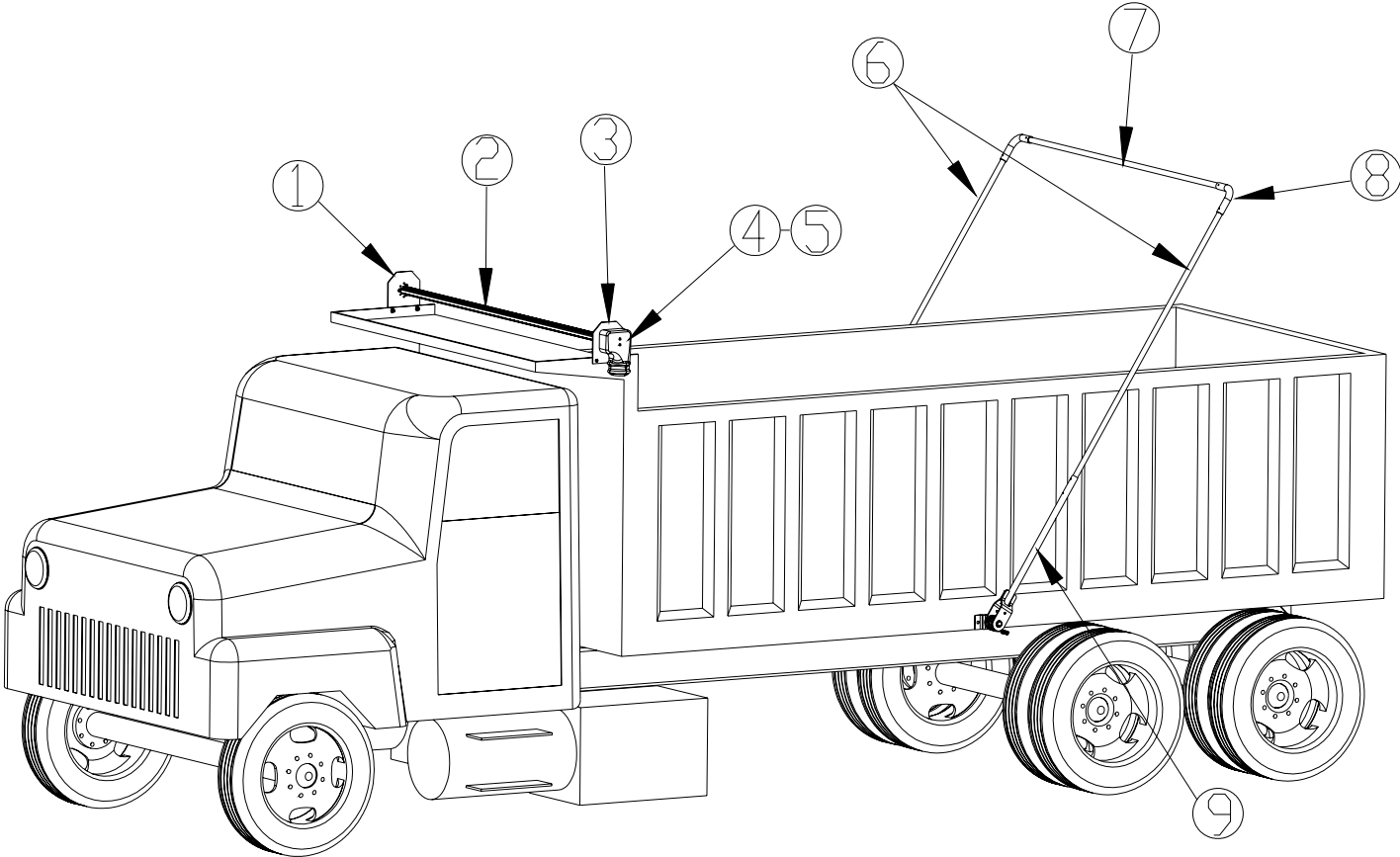
**ADDITIONAL PARTS FOR ELECTRIC SYSTEM (6000ELD)**

3270	3	STEEL BEARING PLATE	1
2464		3/8" - 16 X 1.5" HEX BOLT	2
2875		3/8" FLAT WASHER	2
2874		3/8" - 16 LOCK NUT	2
61G	4 & 5	12 VOLT MOTOR AND MOTOR COVER	1
85N		DURABUILT ROTARY SWITCH KIT	1
1898		60' ROLL OF WIRE	1

**ADDITIONAL PARTS FOR HAND CRANK SYSTEM (6000GL)**

3678	1	STEEL BEARING PLATE WITH BEARING	1
2464		3/8" - 16 X 1.5" HEX BOLT	2
2875		3/8" FLAT WASHER	2
2874		3/8" - 16 LOCK NUT	2
2403	10	SPROCKET ASSEMBLY	1
793	11	CHAIN, #40 X 10'	1
441	12	CRANK BOX ASSEMBLY	1
2464		3/8" - 16 X 1.5" HEX BOLT	4
2875		3/8" FLAT WASHER	4
2874		3/8" - 16 LOCK NUT	4

# 6000 TARPING SYSTEM



## 6000 INSTALLATION INSTRUCTIONS

### Choosing the mounting location

1. In general, the direct drive motor and rollerbar should be mounted on top of the cab shield and as far forward as possible so that the DD motor and pivot arms will be less likely to be damaged by loaders. However, if head assembly is mounted too far forward the pivot arms may interfere with the truck's doors.
2. **Exceptions: Trucks with vertical stacks.** Vertical stacks may be in the way of the pivot arms if the DD motor and rollerbar were to be mounted forward of the stack(s). Simply shortening or re-aligning the stack(s) may solve the problem. If the stack(s) still get in the way, it may be necessary to mount the DD motor and rollerbar to the rear of the stack(s). If there is not room to mount the DD motor and rollerbar on the cab shield behind the stacks, they will need to be mounted on top of the side board pockets to the front of the body.

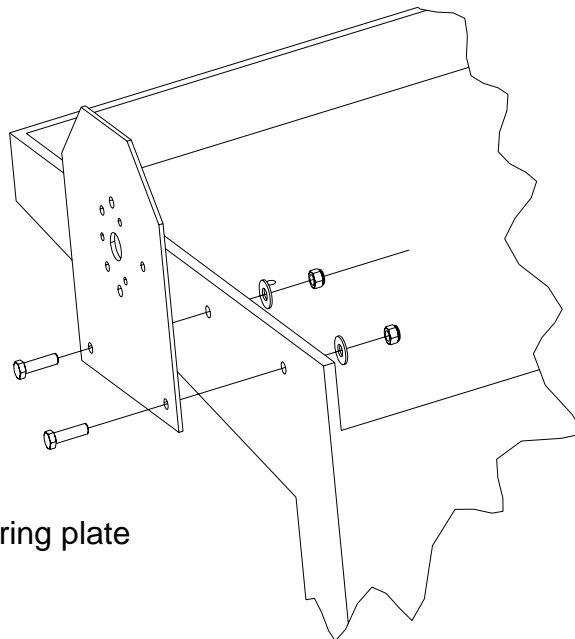
### Installing the Bearing Plates (Optional)

1. Once the mounting location has been determined, you may install the included bearing plates using the 3/8" x 1 1/2" bolts, flat washer, and locknuts. (See fig. 5) You can also use the bearing plates as templates to drill the necessary mounting holes directly into the cab shield sides or other suitable location.
2. If you chose to use the bearing plates as templates and mount system directly to the cab shield, remove the 3/4" bearing from the bearing plate and bolt it in place on the cab shield.

**Note:** The bearing plates or cab shield holes should be exactly opposite of each other to avoid the tarp rolling up unevenly.

3. Be sure there is enough clearance between the rollerbar and the cab shield to roll-up the entire tarp.

Fig. 5



Drivers side bearing plate

## Mounting the Direct Drive Motor and Rollerbar (skip this page if you have hand crank system)

1. Mount the DD motor to the bearing plate, cab shield or housing (See fig. 6A, bearing plate option shown).
2. Measure the distance from the inside of one bearing plate to the inside of the other bearing plate.
3. Cut the roller bar (on the end without the pre-drilled hole) one inch shorter than the length you measured in step 2.
4. Drill a 5/16" hole, 1/2" from the end of the rollerbar you just cut. Start the hole in one of the smooth-sided slots, **not** a threaded slot (see fig 6B). Slide one end of the rollerbar over the DD motor output shaft and secure with a 5/16" carriage bolt, washer, and nut. (See fig. 6A)

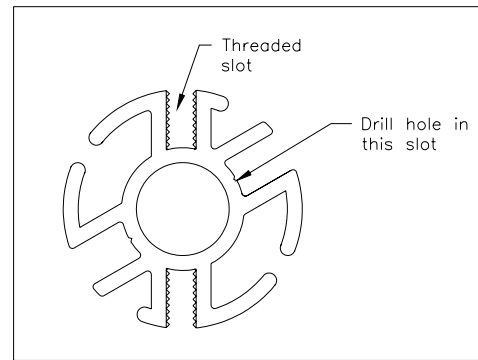
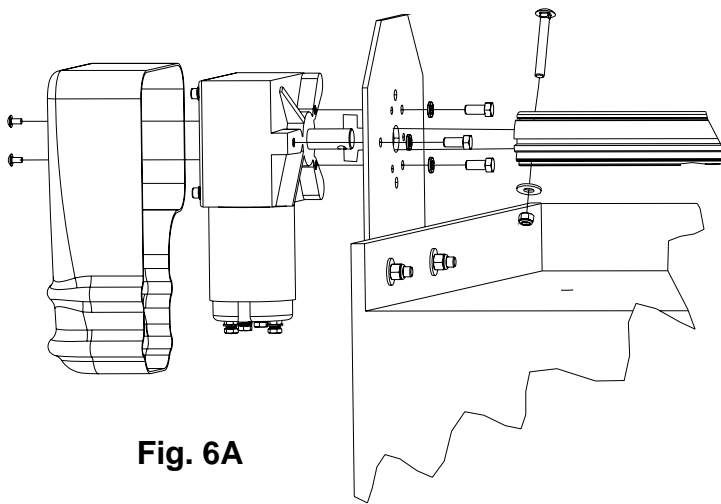
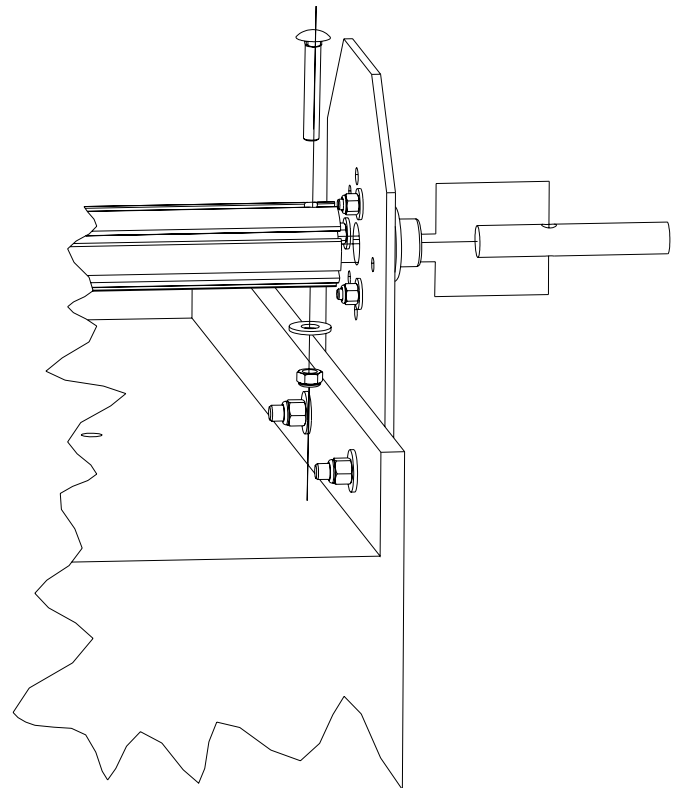


Fig. 6B End view of roller bar

5. Slide the extension shaft through the bearing plate and into the roller bar. Line up the holes in the roller bar with the hole in the extension shaft and secure with the 5/16" carriage bolt, washer, and nut. (See fig. 6C)

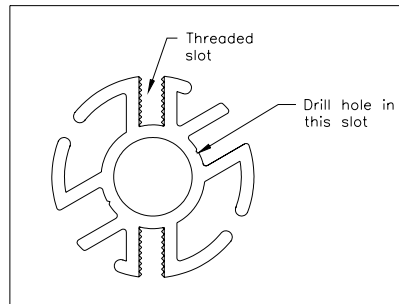


## Wiring the Control Box

1. See the instructions provided with Durabuilt Rotary Switch Kit (#85N) for hooking up the electrical power to your system.

## Mounting the Hand Crank and Rollerbar (skip this page if you have electric system)

1. Measure the distance from the inside of one bearing plate to the inside of the other bearing plate.
2. Cut the roller bar (on the end without the pre-drilled hole) one inch shorter than the length you measured in step 1.
3. Drill a 5/16" hole, 1/2" from the end of the rollerbar you just cut. Start the hole in one of the smooth-sided slots, **not** a threaded slot (see fig 7A). Slide one end of the rollerbar over the 3/4" shaft with sprocket and secure with a 5/16" carriage bolt, washer, and nut. (See fig. 7B)



End view of roller bar

Fig. 7A

4. Slide the extension shaft through the bearing plate, split shaft collars and into the roller bar. Line up the holes in the roller bar with the hole in the extension shaft and secure with the 5/16" carriage bolt, washer, and nut. (See fig. 7C)

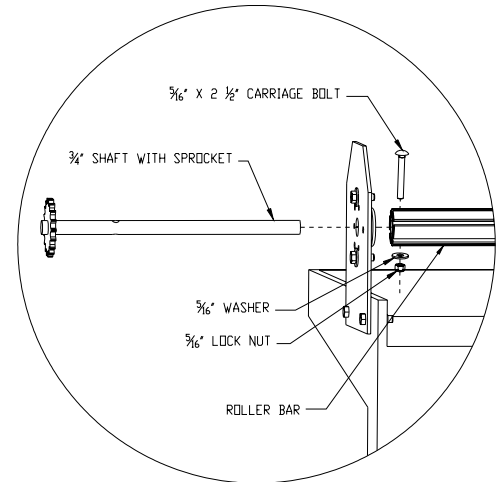


Fig. 7B

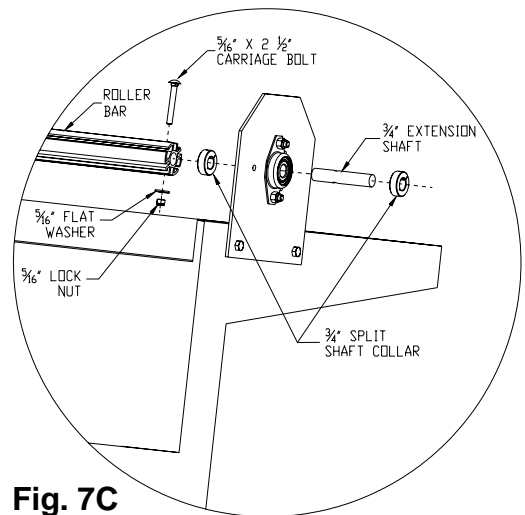


Fig. 7C

5. Determine a suitable position for mounting the GL crank assembly to the front driver's side of the body bellow the top roller bar sprocket. Keep in mind that the top sprocket and the crank assembly must align vertically without any interference with movement of the chain or crank handle.
6. Loosen both 3/4" shaft collars on the passenger side extension shaft. Adjust the 3/4" shaft sprocket assembly so that the top sprocket and bottom sprocket align. Secure both 3/4" shaft collars to hold sprockets in place. There should be no more than 1/2" of side to side motion allowed when installed correctly.
7. Assemble the chain around the top sprocket and bottom sprocket and move the GL crank box to adjust chain tension.
8. Mount the GL crank assembly to the side wall of the truck using 3/8" bolts, washers and lock nuts provided.

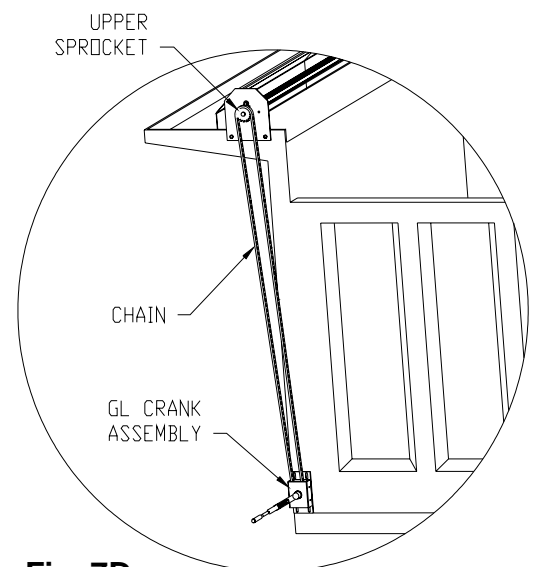
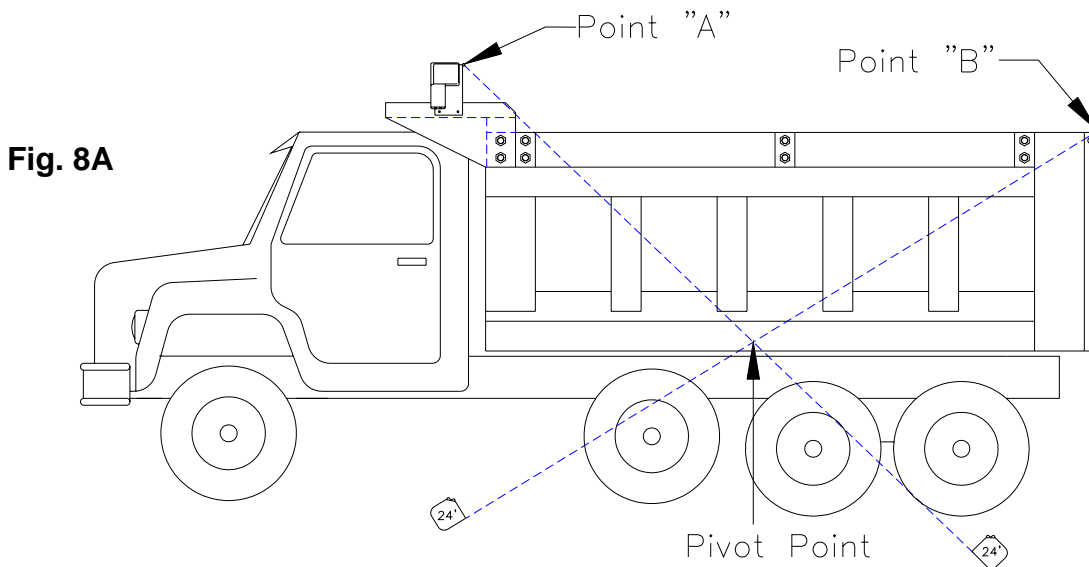


Fig. 7D

## Pivot Mount and Lower Arm Installation

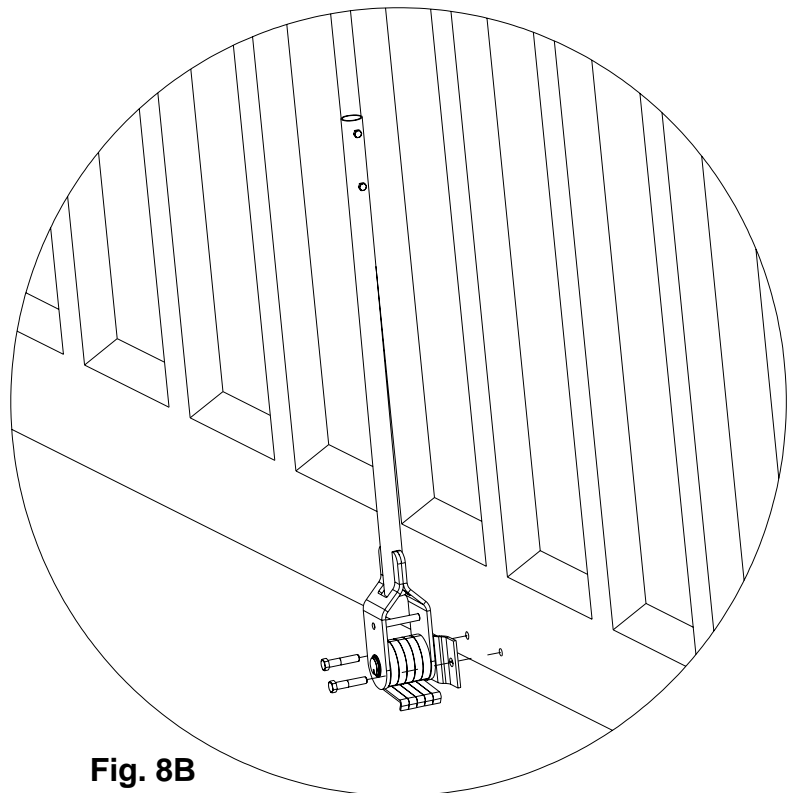
1. To find the pivot point, pull one tape measure from point "A" and a separate tape measure from point "B". Next cross the tape measures at the bottom-middle of the truck body where the two measurements are equal – mark the spot beneath where they cross. This is your pivot point. (See fig. 8A)



**NOTE: If you are welding on your pivot mounts, skip to step #3.**

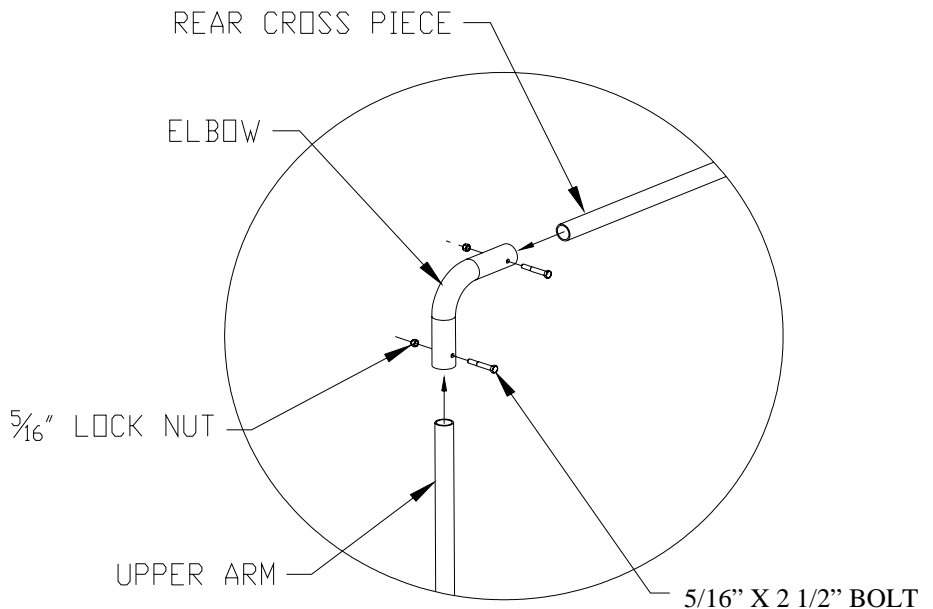
2. **Bolting your pivot mount in place:**  
Using the pivot mount as a guide to determine the hole position for mounting, ensure the center of the mounting plate is aligned with the pivot point as determined in step 1 above. Drill two 9/16" holes in line with the center holes on the pivot mount on each side of the box (See fig. 8B).
3. **Welding or bolting your pivot mount in place:** Weld or bolt the pivot mounts to the box using the included 1/2" bolts, flat washers, and lock nuts (the head of the bolt must be on the outside, and the washer and nut on the inside) (See fig. 8B).

**CAUTION: Failure to comply with these instructions could cause severe damage to the system and/or personal injury.**



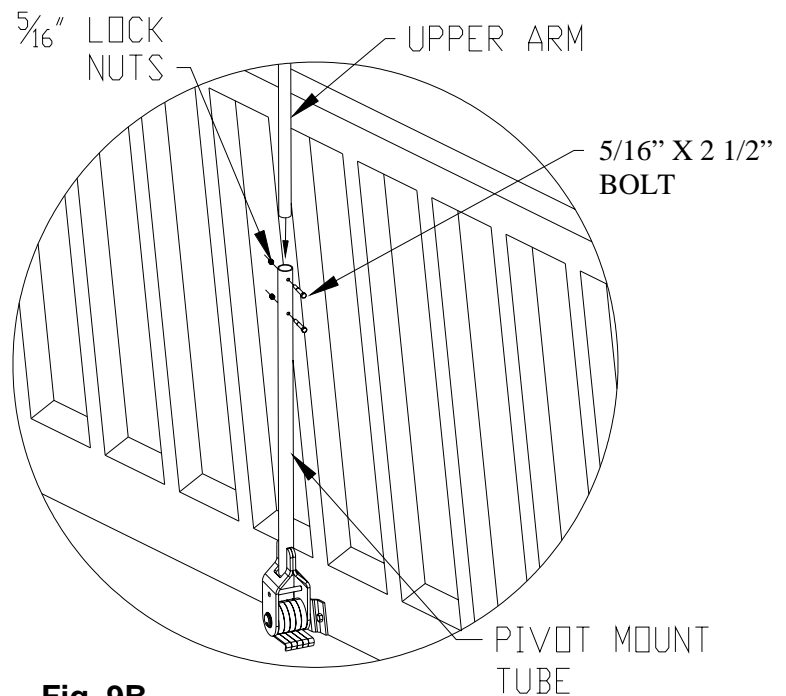
## Pivot Arms and Rear Cross piece installation

1. Slide the 90 degree elbows onto the upper arms. Using the holes in the elbows as guides drill a clearance hole for a 5/16" bolt thru the upper arms. Attach upper arms to 90 degree elbows using the 5/16" x 2 1/2" bolts and lock nuts provided (see fig. 9A)
2. Slide the upper pivot arms into the tube on the pivot mounts. It may be easier to remove the torsion springs from the pivot mount while adjusting arms lengths and installing the rear cross piece.



**Fig. 9A**

3. Install rear cross piece into 90 degree elbows. Adjust arms until rear cross piece rests on back of truck so tarp will fully cover the load. Ensure the rear cross piece does not interfere with tailgate operation.
4. If the pivot arms are too long, then cut both pivot arms as needed until system is at proper length (both arms must be cut the same length).
6. Check for binding or rubbing of the pivot arms against the sides of the box. Check both sides of the box, and adjust the pivot mounts or arms as necessary for clearance.
7. Once system is fully adjusted, using the predrilled holes in the pivot mount tube and 90 degree elbow, drill holes in the rear cross piece and upper arm.



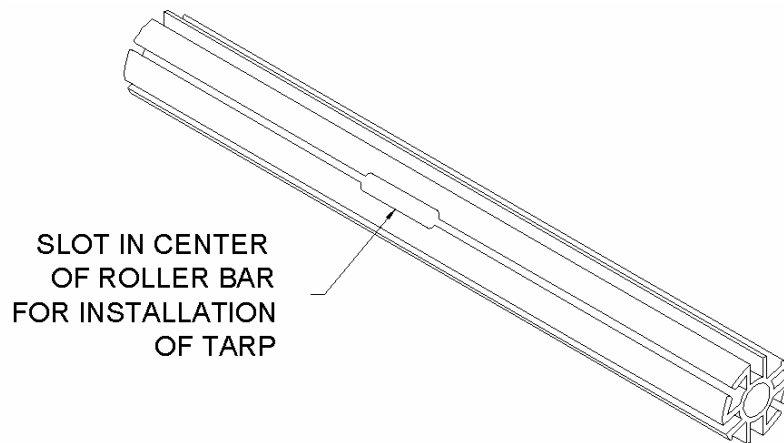
**Fig. 9B**

8. If you removed the torsion springs in step 1 then you will have to remove the pivot arms at this time to reinstall the springs. Install springs on both sides. Install pivot arms back onto pivot mounts and upper arms back onto the pivot mount tubes. Attach upper arms to pivot mount using 5/16" x 2 1/2" bolts and lock nuts provided (see fig. 9B).
9. Insert the rear cross piece into the sewn pocket of the tarp.
10. Insert rear cross piece into bent tubes and attach using 5/16" x 2 1/2" bolts and lock nuts provided (see fig 9A).

### **Pivot Arms and Rear Cross piece installation (continued)**

11. Insert the other end of the tarp into center slot on the roller bar (see fig. 10).  
Center the tarp on roller bar and rear cross bar.
12. Operate system to ensure it works properly.
13. Verify all nuts and bolts are completely tightened on system.

**Fig. 10**



# Thank You for Your Purchase

[www.donovan-ent.com](http://www.donovan-ent.com)

**Donovan Enterprises · 3353 SE Gran Park Way · Stuart, Florida 34997  
1-800-327-8287**



## **HEAVY DUTY TRUCK DIVISION WARRANTY**

### **SATISFACTION GUARANTEE**

Donovan Enterprises, Inc. guarantees customer satisfaction of all Donovan Covering Systems. Customer satisfaction will be assured as outlined in Donovan's Warranty Statement.

#### **WHAT IS COVERED?**

- Donovan Enterprises, Inc. warrants for a period of 90 days from date of delivery, all Covering System parts against defects in material and operation, and for a period of one year against defects in workmanship.
- This warranty is effective if the product is installed according to Donovan's published installation instructions and used for the systems intended purpose.
- Tarps are warranted for a period of 90 days against defects in workmanship.
- Donovan Enterprises' obligation to customer satisfaction under this warranty begins with repair, or at its option, replacement of any part under warranty. If within the first 90 days of delivery, every option to satisfy the customer's needs has been exhausted, the distributor's original purchase price will be refunded upon return of undamaged products that have not been altered, modified, or subjected to misuse or negligence.

#### **WHAT IS NOT COVERED?**

- Donovan Enterprises, Inc. shall not be liable or responsible to supply or pay labor to replace any part found defective, nor shall it be liable for damages of any kind or nature to person, product, property, or other consequential damages.
- This warranty does not apply to non-standard covering system designs or applications
- Damage caused by improper installation, operation, or abuse is not covered
- Damage caused by chemical or environmental exposure
- Damage due to the lack of the proper circuit breaker
- Consequential losses or damage to equipment or materials.
- Consequential expenses such as labor, delays, vehicle downtime, loss of revenue, etc.

#### **REPAIR / REPLACEMENT PROCEDURE**

- All returns for warranty purposes must be assigned a return authorization number prior to return of defective product and shipping must be prepaid by the distributor / customer to Donovan Enterprises, Inc., Stuart, Florida, or other Donovan shipping point. Donovan will pay return freight to distributor upon receipt of defective part. If express freight is requested, customer will pay the additional freight charge above the ground rate.
- Donovan Enterprises, Inc. retains final judgment that a product under warranty is, in fact, defective.
- Donovan Enterprises, Inc's products are sold without any express or implied warranty except as set forth above.
- No person is authorized to modify the preceding warranty in any manner.

## **Donovan's Direct Drive Motor Warranty Policy**

### **What is the warranty on Donovan's Direct Drive motor?**

- Donovan's Direct Drive Motor is covered by a **3-Year Replacement Warranty**.
- Anytime during the first 3 years of operation, if there is a problem with the motor and it meets our warranty requirements, Donovan will replace your motor and pay the freight to send the replacement motor back to you.

### **What is not covered?**

- Warranty is void if the motor end bell has been opened – No exception
- Warranty is void if the gearbox has been opened – No exception
- Warranty is void if the motor is not on the original gearbox.
- Damage caused by improper: use, installation, or abuse.
- Damage due to use of improper circuit breaker or lack of circuit breaker.
- Damage caused by chemical exposure.
- Any and all consequential damages. (i.e. damage to equipment or materials, delays, downtime, loss of revenue, etc.)

### **How does Donovan handle freight charges?**

- The customer is responsible for shipping the malfunctioning part to Donovan's facility (in Stuart, Florida) for inspection. If the part is covered under warranty, and a replacement motor needs to be shipped out, Donovan will pay the freight to return the replacement motor via UPS ground. If the customer would like the motor shipped any other way then they must pay the freight. If the motor turns out not to be covered under the warranty, Donovan will return the motor to the customer at their request. The customer must pay \$10 plus the freight to return the unit.

### **When does the motor's warranty start?**

- The motor's warranty starts from the day it is shipped from Donovan Enterprises, or from the day the motor warranty is registered with Donovan; by sending in a warranty registration card and a proof of purchase, within 60 days of the purchase.

### **What do I do if my motor malfunctions?**

- First, record the motor serial number located on the gear-box and call Donovan Enterprises at 800-327-8287 for an RGA#. A Donovan representative will be able to use your motor serial number to inform you of the warranty available on that particular motor.
- If the motor is within the three year period, a Donovan representative will ask a few questions to try to diagnose the motor's problem, then issue a RGA#.
- In order to get a credit for the bad motor, you will need to send the malfunctioning motor to Donovan's facility in Stuart, Florida for inspection.
- Donovan will send out a replacement motor immediately, and charge the customers account for the motor and the freight to ship the motor. This charge will be credited as soon as the malfunctioning motor is received at our facility and it is determined to meet all warranty requirements.
- When the motor is received at Donovan's facility: We will determine if it meets warranty requirements, then call the customer and inform them if they will receive credit for the replacement motor.
- If the motor meets warranty requirements, the replacement motor's warranty will still have whatever warranty was left on the original motor. If the motor was denied warranty then the replacement motor's warranty will start from the day we shipped it to the customer.
- Donovan reserves the right to replace a warranted motor or gearbox with a remanufactured motor or gearbox.

**\*Donovan winch motor warranty is 90 days full replacement.**