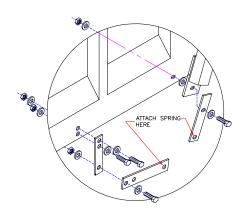
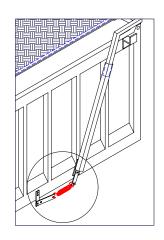


5000 Series

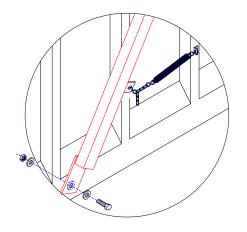
Covering Systems Installation Instructions

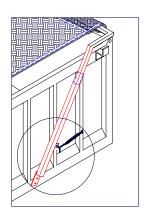
Description	QTY	Part #	Description	QTY	Part #
Bent arm extension (L)	1	905	Hose clamp 1 ½"	4	146
Bent arm extension (R)	1	904	Bolt, ½" x 2 ½"	2	2705
Pivot arm (L)	1	903	Nut, lock, ½"	4	2877
Pivot arm (R)	1	902	Washer, flat, ½"	6	2878
Pivot arm rests	2	952	Bolt, 3/8" x 1 ½"	4	2464
Rear cross piece	1	2071	Nut, lock, 3/8"	4	2874
Rollerbar	1	121	Washer, flat, 3/8"	4	2875
Bearing plate assembly	1	3678	Cotter pin ¹ / ₄ " x 3"	4	2475





Add this spring hardware if you have			
the underbody spring option:			
Description	QTY	Part #	
Spring, underbody	2	1585	
Pivot arm bracket	2	2121	
Spring mounting bracket	4	1586	
Bolt, 3/8" x 1 ½" Bolt	6	2464	
Nut, lock 3/8"	6	2874	
Washer, flat, 3/8"	10	2875	

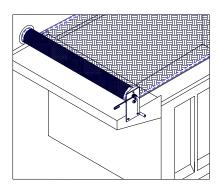


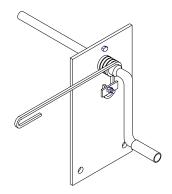


Add this spring hardware if you have			
the side spring option:			
Description	QTY	Part #	
Spring, extension, 25"	2	116	
Spring attachment angle	2	798	
Chain links, 12"	2	144	
S-Hooks	6	147	

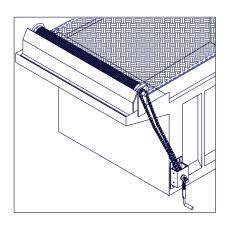
The following	optional components are
also available:	

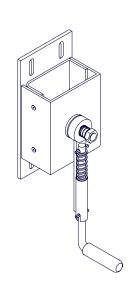
aiso a failable.		
Description	QTY	Part #
Wind Deflector	1	1647
GL Chain Guard	1	



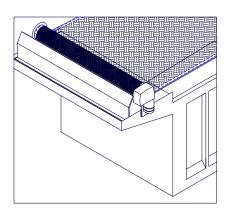


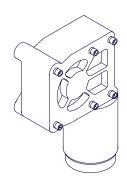
The following additional hardware is for cab level crank (S and SU) kits:			
Description	QTY	Part #	
Crank handle	1	4128	
Brake spring	1	1202	
Brake spring clip	1	753	
Rubber strap, 15" w/hook	1	187	
Shaft collar, ¾"	2	148	
Bearing plate assembly	1	3678	





The following additional hardware is for ground level crank (GL and GLU) kits:			
Description	QTY	Part #	
Crank box assembly	1	441	
Chain, #40 x 10'	1	793	
Shaft sprocket assembly	1	2403	
Bearing plate assembly	1	3678	
Shaft collar, ¾"	2	148	
Nut, lock, 3/8"	4	2874	
Bolt, 3/8" x 1 ½"	4	1913	
Washer, flat, 3/8"	4	2875	





The following additional hardware is for electric (ELD and ELUD) kits:		
Description	QTY	• Part #
Motor, direct drive	1	61
Motor cover	1	
U Nuts	5	3708
5/16" Lock nut	1	2868
Wire, electrical kit	1 roll	1898
Rotary switch kit	1	85N
Bearing plate	1	3270
Bolt, 5/16" x 1 ½"	4	1913

Before beginning installation:

- 1) Check parts bags for correct contents. Contact your dealer if parts are missing. THE FIRST TWO PAGES CONTAIN THE REFERENCE GUIDE FOR THE HARDWARE YOU WILL NEED TO INSTALL YOUR SYSTEM.
- 2) Read through instructions for entire system to get a general idea of how each component is mounted and how the components fit together. These instructions apply for all versions of the 5000 system, so use only those sections which apply to your particular model.

Choosing the Mounting Location

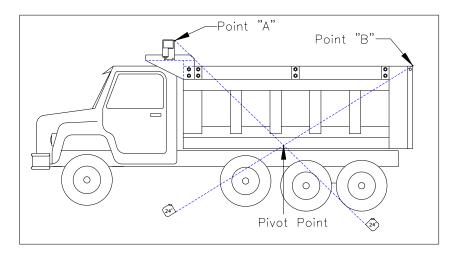
In general, the rollerbar should be mounted on top of the cab shield and as far forward as possible so that the rollerbar and pivot arms will be less likely to be damaged by loaders. If the head assembly is mounted too far forward, the pivot arms may interfere with the truck doors.

Exceptions: Trucks with vertical stacks. Vertical stacks may be in the way of the pivot arms if the 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 rollerbar to the rear of the stack(s). If there is not room to mount the rollerbar on the cab shield behind the stacks, it will need to be mounted on top of the side board pockets to the front of the body.

Mounting the Rollerbar Assembly (ALL KITS):

- 1) Once, the mounting location has been determined, you may either install the included bearing plates using the 3/8" x 1½" bolts, flat washer, and lock nuts, or use the bearing plates as templates to drill the necessary mounting holes into the cab shield sides or other suitable location. Check to make sure that the distance from each bearing plate to the tailgate is the same to ensure the tarp will roll up evenly. NOTE: for S/SU kits, ensure the bearing on the crank side of the assembly is not facing out, this will prevent proper installation of the spring brake.
- 2) If you chose to use the bearing plates as templates and mount directly to the cab shield, remove the ¾" bearing from the passenger side bearing plate and bolt it in place on the passenger side of the cab shield. **Note:** The bearing plates or cab shield holes should be exactly opposite of each other to avoid the tarp bunching to one side during use.
- 3) Be sure there is enough clearance between the rollerbar and the cab shield to roll-up the entire tarp. Measure the distance between the outside edges of the bearing plates. Cut the open end of the rollerbar 1"-2" longer than that distance.
- 4) Insert ¾" shaft end of the rollerbar through the right side ¾" bearing
 - SU KIT: Slide the ¾" shaft collar onto the shaft end of the rollerbar and lightly tighten. Install the cab level crank on the left-hand bearing plate (Refer to cab level crank assembly instructions on page ???). Secure both ¾" shaft collars and tack weld or bolt the crank handle shaft to the rollerbar. (See Mounting the Cab Level Crank Assembly)
 - GL KIT: Slide a ¾" shaft collar onto the ¾" x 14" shaft with sprocket. Insert the ¾" x 14 shaft through the outside of the left side bearing plate and into the open end of the roller bar. Do not secure shaft to roller bar at this time.
 - EL KIT: Attach the direct drive motor (with the back side of the motor cover on) to the driver's side bearing plate using the 3/8" x 3/4" bolts. Drill a 5/16" hole, 3/4" in from the open end of the rollerbar. Slide open end of the rollerbar onto the motor shaft. Align the hole in the rollerbar with the one in the motor shaft. Insert the 5/16" bolt through rollerbar and motor shaft, then fasten the bolt with a 5/16" lock nut.

Mounting Pivot Arms (ALL KITS):



- 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 where they cross. This is your pivot point.
- 2) Drill a hole in the bottom rail of the body at the pivot point using a ½" drill bit.
- 3) For underbody spring option models, insert the underbody pivot arm bracket inside of the square pivot arms, aligning the ½" hole in the bracket with the ½" hole in the pivot arm. Ensure that the end of the underbody pivot arm bracket with the 3/8" hole extends out of the arm. For side spring models, skip to step 4.
- 4) Insert a ½" bolt through the bracket (bracket for underbody option only), pivot arm, and side of the body. Place a ½" washer under the bolt head between the pivot arm and the body, and inside the body. Secure the bolt with two ½" nuts per side, laving minimal play in pivot arms. Repeat procedure for the other side of the body.
- 5) Insert the bent arm extensions into the end of the pivot arms. Walk arms over to the rear of the truck and adjust arm extensions until they rest on top of the tailgate. Shorter bodies may require pivot arms to be cut down in length. Temporarily clamp the bent arm extensions where they enter the pivot arms and walk the arms forward to ensure that they end at or near the rollerbar. Adjust the length of the pivot arms if they do not align properly.
- 6) Insert the rear cross piece into the bent arm extensions and ensure pivot arms remain parallel to the sides of the body. If necessary, the rear cross piece can be cut shorter to fit on narrower bodies.
- 7) When proper lengths and alignments are achieved, drill and cotter pin bent arm extensions to the pivot arms. Drill the rear cross piece and the bent arm extensions so that the tarp won't get punctured by the cotter pins once assembly is complete. Disassemble the rear cross piece and insert it through the rear pocket of the tarp. Reassemble the rear cross piece back into the bent arm extensions and secure with cotter pins such that the pivot arms are parallel to the sides of the body. Position cotter pins so that the loop is pointing up when the pivot arms are in the rear position.
- 8) Attach the front edge of the tarp to the roller bar using the 1 ½" hose clamps. Thread the hose clamps through the four leading edge grommets and around the rollerbar. Space the clamps evenly and secure them tightly across the roller bar width to prevent chaffing of the tarp on the bearing plates.
- 9) Position the pivot arm rests on the sides of the body so that the weight of the pivot arms rest on the brackets rather than on the tailgate when the tarp is in the covered position. Pivot arm rests should be welded in place.

Underbody spring attachment

1) Insert one end of the underbody spring through the 3/8" hole in the underbody pivot arm bracket. Insert the other end of the spring through the single hole end of the underbody spring mounting bracket.

- 2) Find the location where the underbody spring mounting bracket will be mounted by positioning the pivot arms approximately 30 degrees to the rear of vertical and aligning the underbody spring parallel to the bottom rail in a relaxed position. Mark the spot on the bottom rail of the truck 4" forward of the forward edge of the spring.
- 3) Using the bracket as a template, drill two 3/8" holes in the bottom rail at the mark. Bolt or weld brackets in place using 3/8" bolt, 3/8" washers, and 3/8" lock nuts.
- 4) Connect the bracket attached to spring to the bracket attached to the truck body using the 3/8" bolts, flat washers and lock nut. Do not over-tighten or the brackets will not pivot with arm movement.
- 5) Adjust spring tension by moving the 3/8" bolt joining the underbody spring mounting brackets to the other hole in the bracket.
- **6)** Repeat procedure for other side of truck.

Side Spring Attachment

- 1) Weld or bolt the spring attachment angle to the side of the body approximately 60" toward the rear of the truck body from the pivot point and 20" up from the bottom rail.
- 2) Attach the spring to the spring attachment angle and bracket on the pivot arms using the "S-Hooks" and chain. Test operation and adjust as necessary using chain links between the spring and pivot arm. NOTE: extension spring should have tension on it when covering the load until the mechanism is approximately 25 degrees to the rear of vertical.
- 3) Once final adjustments are made, crimp all "S-Hooks" closed.

Installing the Optional Wind Deflector

Install the wind deflector halves to the cab shield using the 3/8 x 1½" bolts, flat washer, and lock nuts. Mount forward of the rollerbar allowing enough space between the wind deflector and the rollerbar for the tarp when it is fully rolled up. One or both halves may need cutting to fit the width of the cab shield. It may also be necessary to cut notches in the wind deflector for the cab shield support braces.

Mounting the Cab Level Crank Assembly (SU KIT)

- 1) Remove the bottom nut to the bolt that attaches the ¾" bearing to the bearing plate. NOTE: the ¾" bearing and brake spring are installed on opposite sides of the bearing plate.
- 2) Attach the brake spring to the bearing plate using the spring clip and bolt from the bearing.
- 3) Slide the crank handle shaft through the spring brake, bearing plate, 3/4" bearing, shaft collar, and into rollerbar. Weld or bolt crank handle to rollerbar. NOTE: it may be necessary to pull up slightly on the brake spring handle to allow the crank handle to easily slide through.

Mounting the Ground Level Crank Assembly (GL KIT)

- 1) Determine a suitable position for mounting the GL Crank Assembly to the front driver's side of the body below the top roller bar sprocket. Keep in mind that the top sprocket and the crank assembly must align vertically without any obstacles to interfere with movement of the chain or the crank handle.
- 2) Adjust the 14" shaft / sprocket assembly so that the top sprocket and bottom sprocket align. Secure the 3/4" shaft collar flush with the 3/4" bearing to maintain alignment. Weld or bolt the 14" shaft to the roller bar. Secure the right side of the roller bar with a 3/4" shaft collar on the outside of the bearing plate, allowing 1/2" of lateral play in the rollerbar.
- 3) Assemble the chain around the top sprocket and bottom sprocket (within the GL crank assembly) and adjust the GL crank box up or down for adequate chain tension.
- 4) Mount the GL Crank Assembly to the side wall of the body using the 3/8" bolts, lock nuts, and washers.

Optional Chain Guard

- 1) Mount the chain guard by overlapping the upper and lower chain guard pieces and attaching them together with sheet metal screws and ¼" lock washers or by welding.
- 2) Mount the lower chain guard over the top part of the crank assembly and attach to the body using the chain guard brackets and ¼" bolts or by welding.

Wiring the Motor

See wiring instructions in the switch kit.

Thank You for Your Purchase



Donovan Enterprises 2951 S.E. Dominica Terrace, Stuart FL. 34997

1-800-327-8287 •Visit our website at www.donovan-ent.com

Any Questions?????......Call us @ 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.

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**.

1st year - Within the first year the motor is covered 100%. If there is a problem within the first year of the motor's life, Donovan will replace the motor and pay the freight to send the replacement motor back to you.

2nd year – If there is a problem within the second year of the motor's life, Donovan will issue a 50% credit of the original cost of the motor.

3rd year – If there is a problem with a Donovan motor in the third year of the motor's life, Donovan will issue a 25% credit of the original cost of the motor.

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
- 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. (ie. 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 motor turns out not to be covered under the warranty, Donovan will return the motor to the customer at their request and at their expense. NO HANDLING CHARGES WILL APPLY.

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 warranty is registered with Donovan; by sending in a warranty registration card within 60 days of purchase.

WHAT DO I DO IF MY MOTOR MALFUNCTIONS?

- First, record the motor serial number 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 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 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 repaired or remanufactured motor or gearbox of same or newer condition.
- **Donovan winch motor warranty is 90 days full replacement.**