



Installation Instructions

SuperShield™ 9500 w/Electric Drive Unit & Conversion Kit

111-0215 / Conversion Kits 501-0732, 501-0734 & 501-0735

Related Instructions,
How-To Videos & More



[PDF: 25 AMP Switch Kit](#)



[PDF: Bolt-On Mounting System](#)



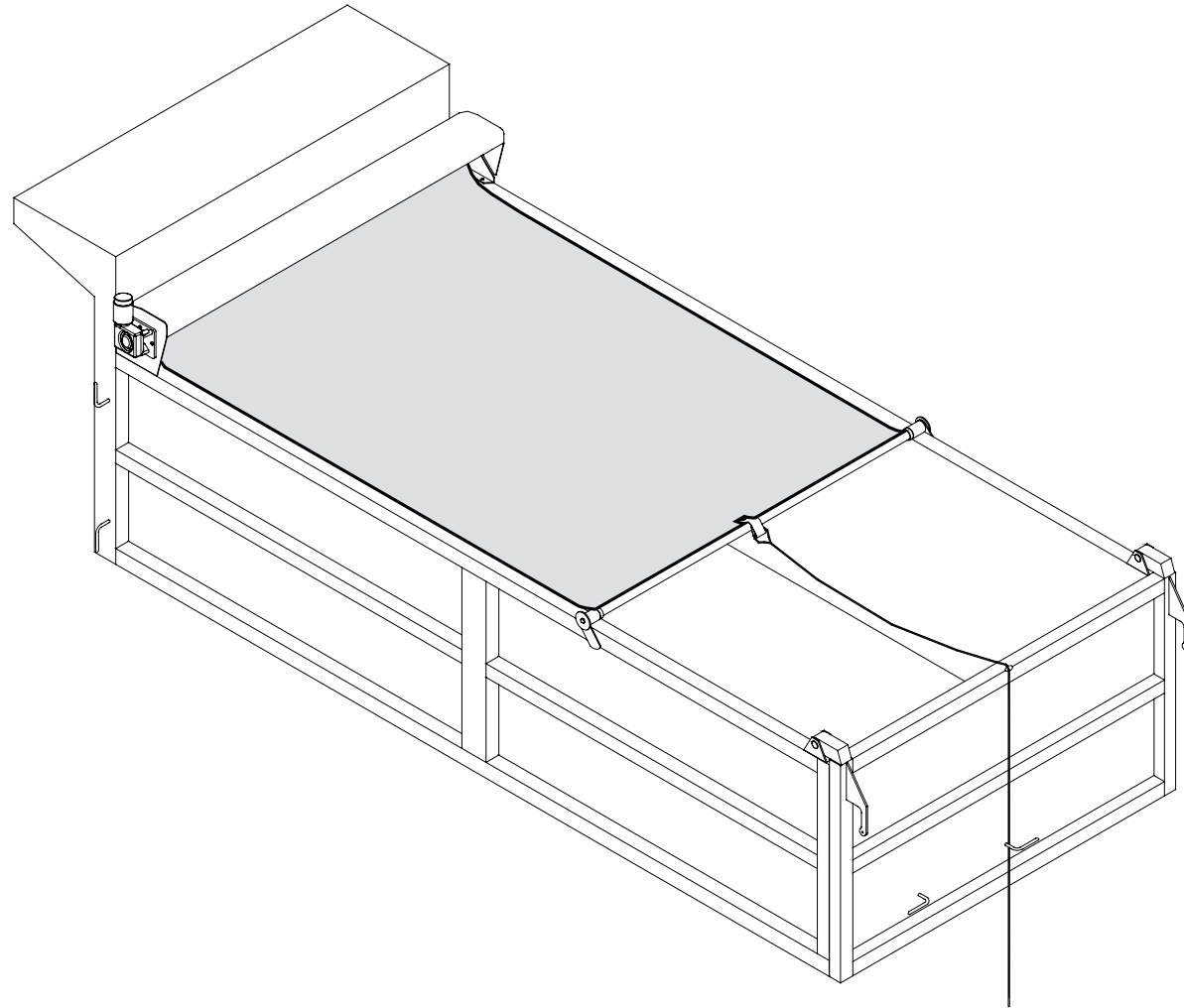
[PDF: Manual Arm Kits](#)



[Video: Ratchet Operation](#)



[Video: Electric Drive Unit Operation](#)



DURING INSTALLATION, SOME FABRICATION MAY BE REQUIRED.



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Installation Instructions

SuperShield™ 9500 w/Electric Drive Unit & Conversion Kit

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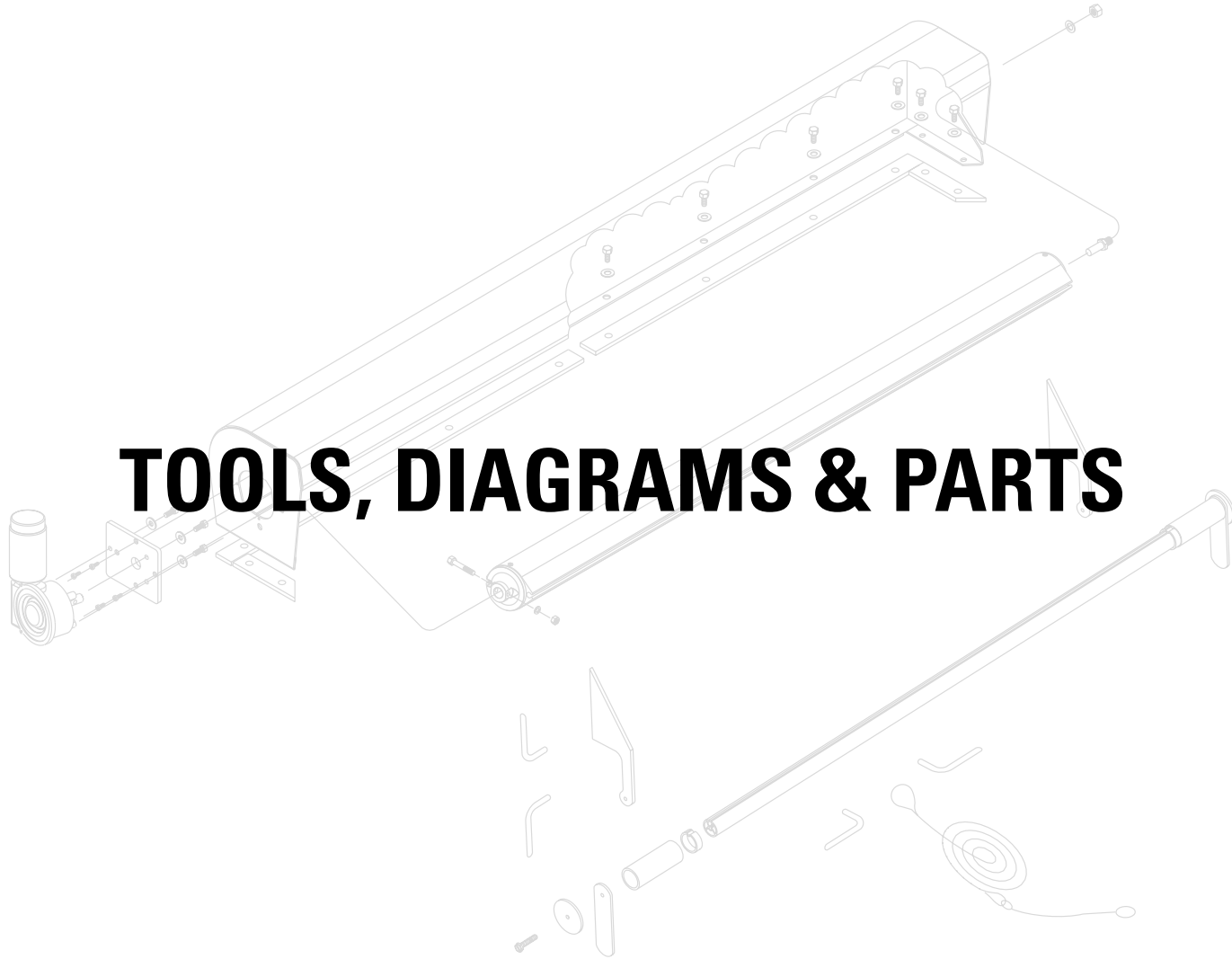
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Installation Instructions

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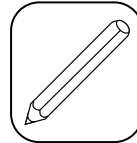
Required Tools



Safety Glasses and Gloves



Welding Equipment & Helmet



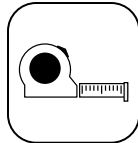
Pencil or Marker



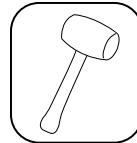
Metal File



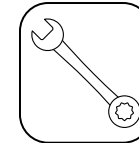
Hacksaw



Tape Measure



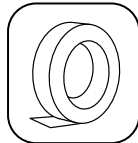
Rubber Mallet



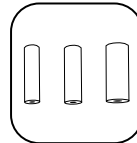
3/4" Box Wrench



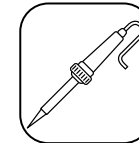
Adjustable Wrench



Masking Tape



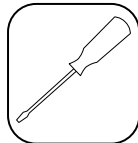
3/4", 7/16" & 5/16" Sockets



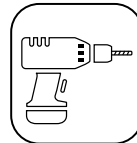
Soldering Iron



Socket Wrench



Flathead Screwdriver



Impact Drill (Optional)



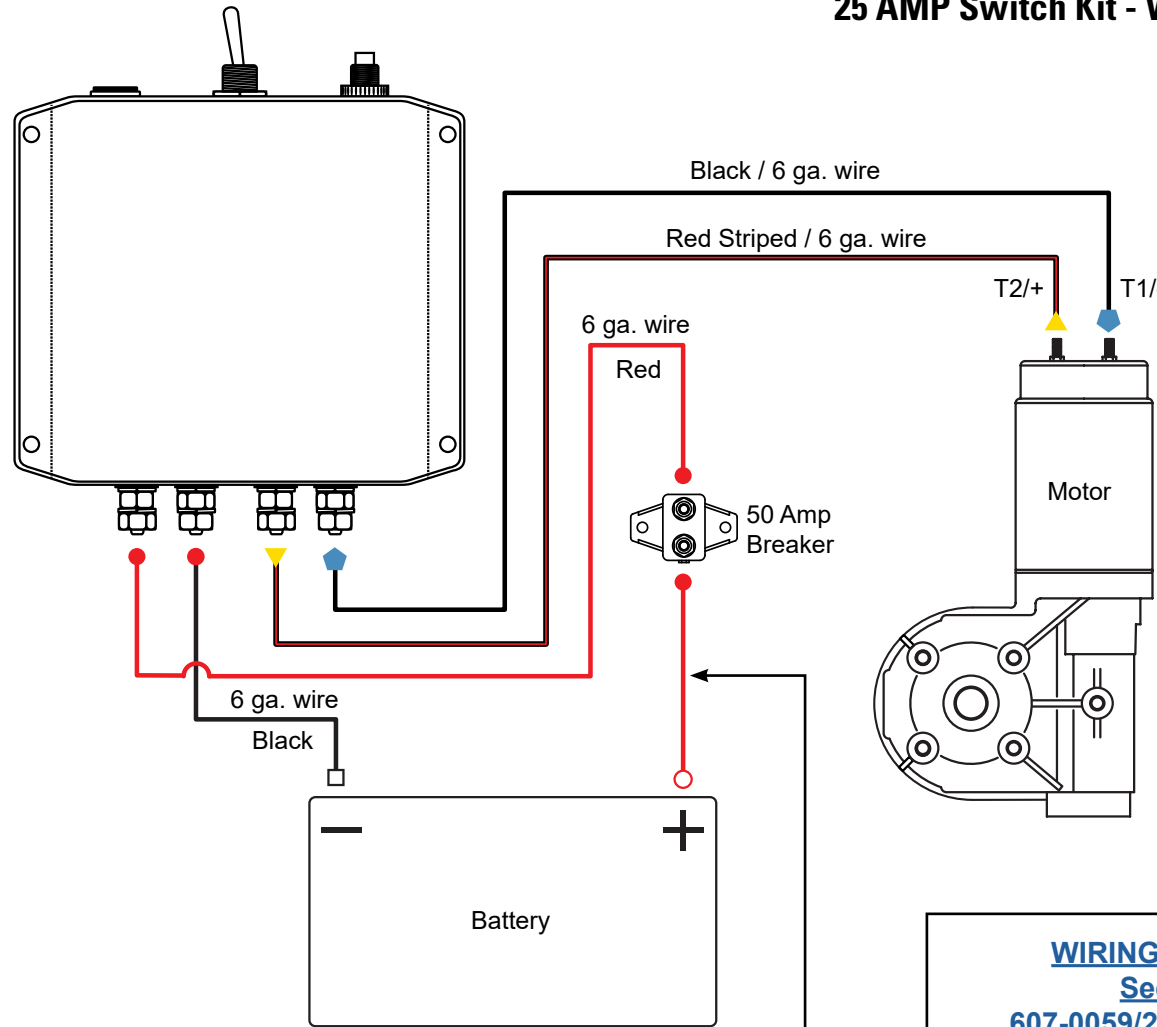
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SuperShield™ 9500 w/Electric Drive Unit & Conversion Kit

25 AMP Switch Kit - Wiring Diagram #514-0101



BOOT COLORS			
	Red	Yellow	Blue
With Boot	●	▲	◆
No Boot	○	N/A	N/A

WIRING INSTRUCTIONS
 See document
[607-0059/25 AMP Switch Kit in Technical Documents at Pulltarps.com](#)

Note: 12" Max distance between Battery and Breaker.



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Installation Instructions

SuperShield™ 9500 w/Electric Drive Unit & Conversion Kit

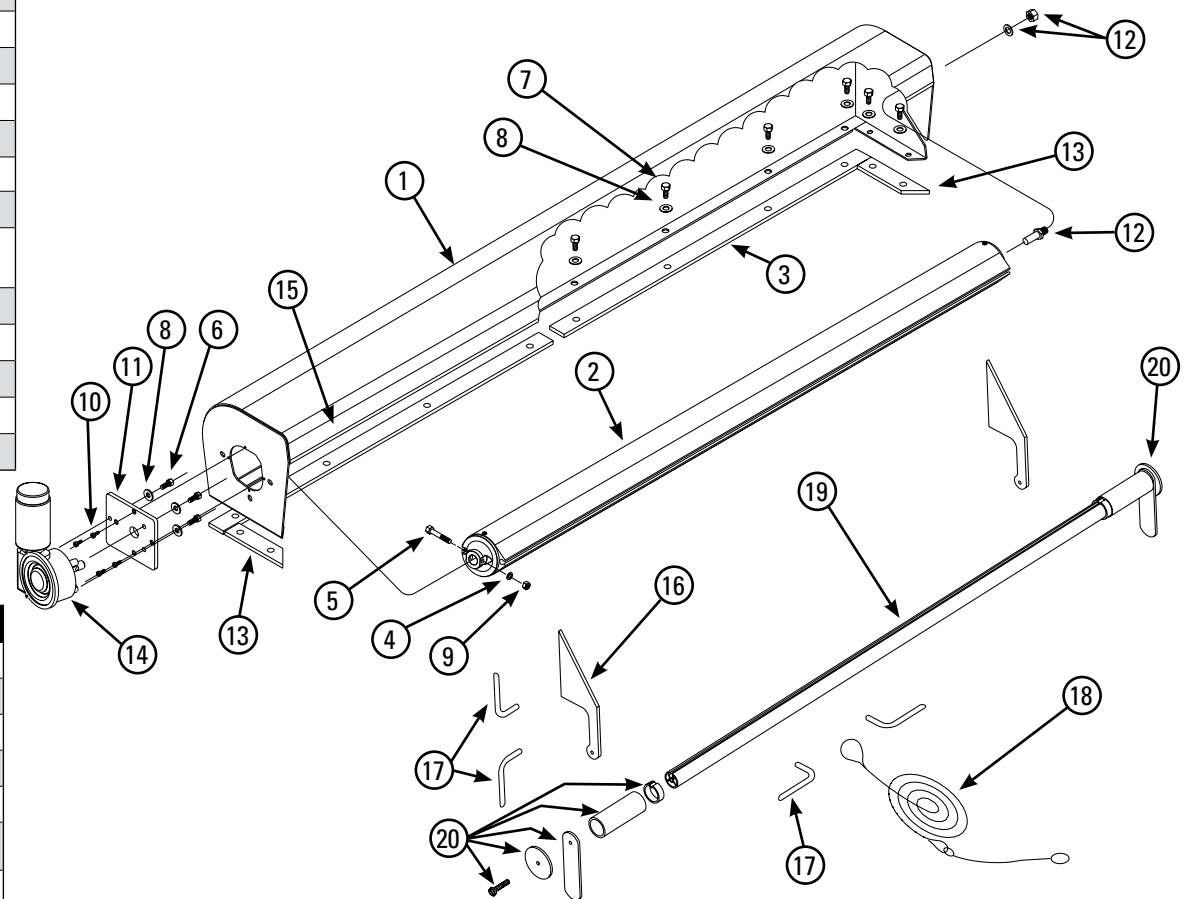
SuperShield™ 9500E #111-0215
(Widths of 80, 84, 87, 89, 93, 96, 100")

ITEM	PART #	DESCRIPTION	QTY
1	501-01XX	SS Housing 9.5" 80, 84, 87, 89, 93, 96, 100"	1
2	501-13XX	Roller Tube Assy. 80,84,87,89,93,96,100"	1
3	501-15XX	Mounting Bar 40, 42, 43.5, 44.5, 46.5, 48, 50" (Specify Steel or Aluminum)	2
4	505-2502	1/4" Flat Washer USS	1
5	503-3108	5/16" - 18 x 1-3/4"lg. HHCS Bolt	1
6	503-3105	5/16" - 18 x 1"lg. HHCS Bolt	3
7	503-3101	5/16" - 18 x 1/2"lg. HHCS Bolt	12
8	505-3102	5/16" Lock Washer	15
9	504-3103	5/16" - 18 Nyloc Nut	1
10	506-9905	#10 - 32 x 1/2"lg. Phillips Head Pan	4
11	501-1235	Alum. Adaptor Plate-SW Motor	1
12	501-0632	System End Plate Stud Kit	1
13	501-150X	6" Large Steel Mounting Brkt. (Specify Steel or Aluminum)	2
14	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor	1
--	514-0121	6 Ga. Electric Wire (Not Shown)	100'
--	514-0505	Gray Quick Disconnect (Not Shown)	2
--	514-0101	Switch Assembly (Not shown)	1
15	607-0061	Pulltarps Decal	1

REV. 10/08/21 WLH

Pullrod Hardware

ITEM	PART #	DESCRIPTION	QTY
16	501-0301	Tarp Return Ramps (Steel)	2
--	501-0302	Tarp Return Ramps (Alum.)	2
17	501-0621	Rope Storage Kits (4 Steel Hooks)	1
--	501-0608	Rope Storage Kits (4 Alum. Hooks)	1
18	517-10XX	Pull Rope (20, 25, 30, 35, 40, 50')	1
19	Determined by Length	Pullrod (85, 91, 93, 96, 100, 105" Lengths)	1
20	501-0612	Pullrod Hardware Kit	1





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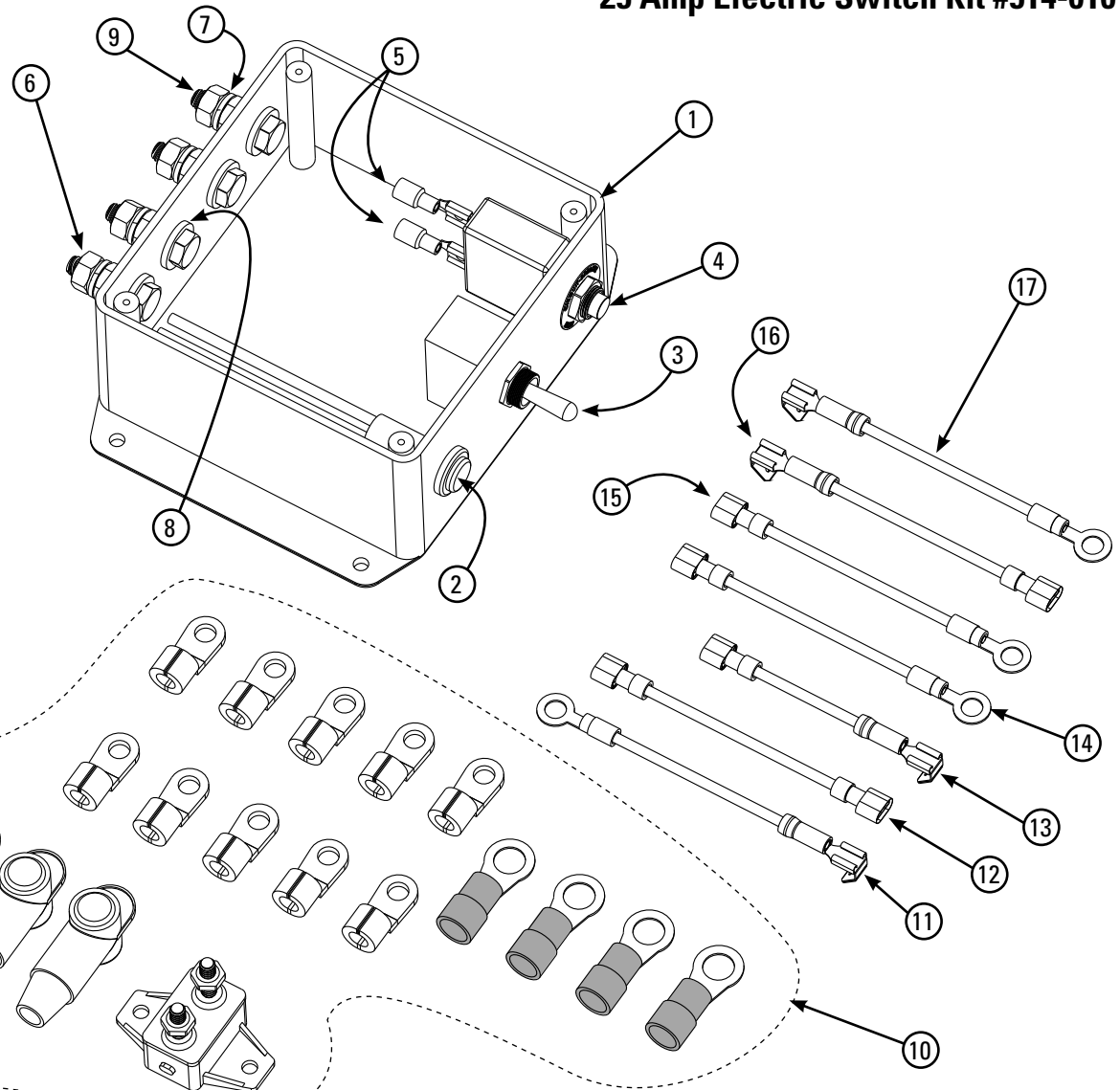


Installation Instructions

SuperShield™ 9500 w/Electric Drive Unit & Conversion Kit

25 Amp Electric Switch Kit #514-0101

ITEM	PART #	DESCRIPTION	QTY
1	514-9991	Enclosure for Electric Pulltarp	1
2	514-9904	Red Lamp - 12V	1
3	514-0102	15A Switch for Electric Pulltarp	1
4	514-0402	25 AMP "Push to Reset" Breaker	1
5	514-0332	Push-OnspadeTerm. 22-18 1/4"	2
6	504-2502	1/4" - 20 Brass Nut	8
7	505-2503	1/4" Lockwasher (Shown in Flattened State)	8
8	505-2501	1/4" Washer	8
9	503-2508	1/4 - 20 x 1 HHCS GR5	4
10	106870	Breaker and Connector Kit	1
11	514-9923	10GA Black Wire Assy., 3" Long Stacked .25" Male Spade, .25 Ring Term	1
12	514-9924	10GA Black Wire Assy., 3" Long .25" Female Spade, Insulated both ends	1
13	514-9928	10GA Black Wire Assy. 2" Long Stacked .25" Male Spade .25" Female Spade, Insulated	1
14	514-9929	10GA Orange Wire Assy., 3" Long .25" Ring Terminal .25" Female Spade, Insulated	1
15	514-9959	10GA Red Wire Assy., 3" Long .25" Female Spade, Insulated .25" Ring Term	1
16	514-9960	10GA Blue Wire Assy., 3" Long Stacked .25" Male Spade .25" Female Spade, Insulated	1
17	514-9961	10GA Blue Wire Assy., 3" Long Stacked .25" Male Spade .25" Ring Terminal	1



REV. 10/05/21WLH

PULLTARPS

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Installation Instructions

SuperShield™ 9500 w/Electric Drive Unit & Conversion Kit



SUPERSHIELD™ 9500 EDU & EDU CONVERSION KIT INSTALLATION

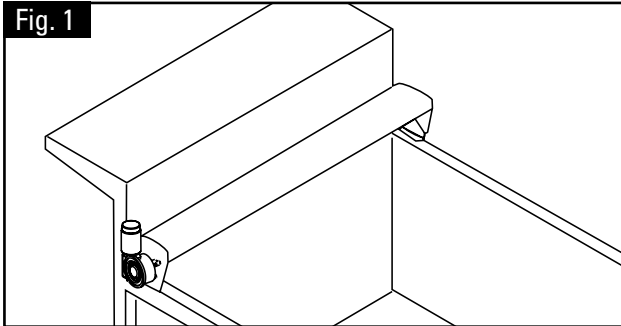


Installation Instructions

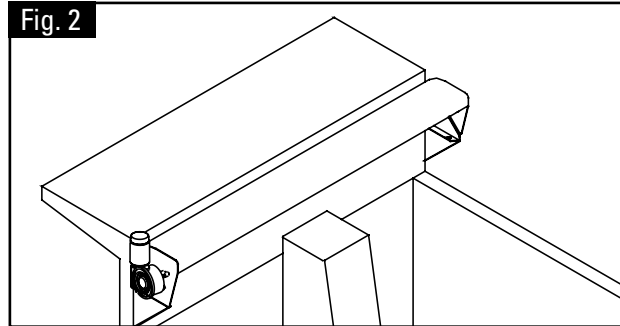
SuperShield™ 9500 w/Electric Drive Unit & Conversion Kit

Mounting Positions

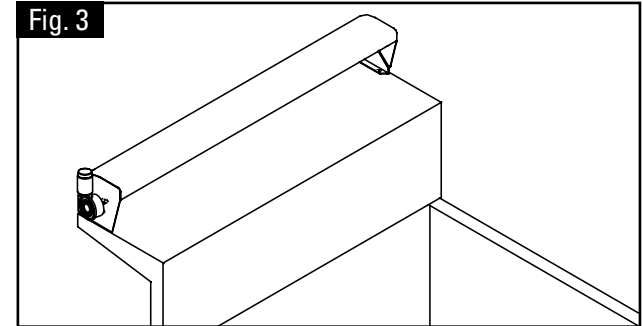
Step 1: Determine the mounting position for your truck Fig. 1 - Fig. 6.



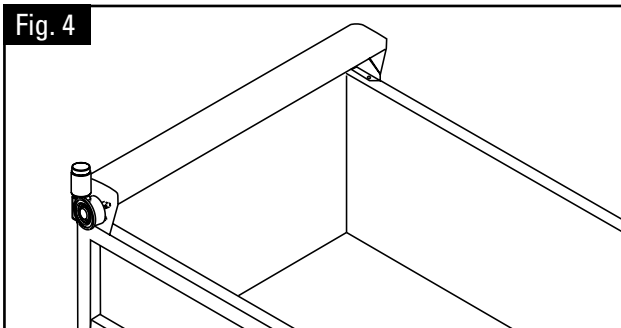
"A" Mount



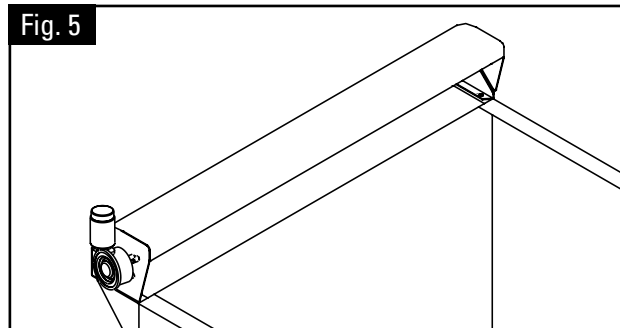
"B" Mount



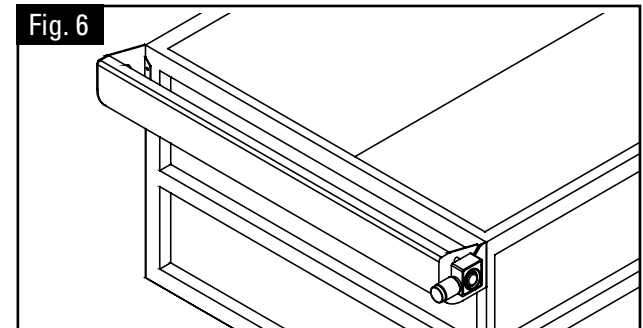
"C" Mount



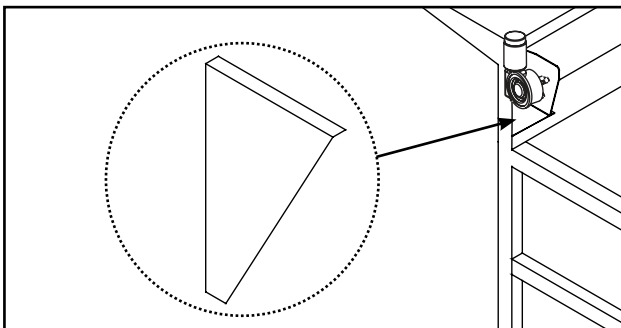
"D" Mount



"E" Mount



"F" Mount



"B" Brackets

NOTE: Use optional "B" Brackets when mounting in position "B" and "E".



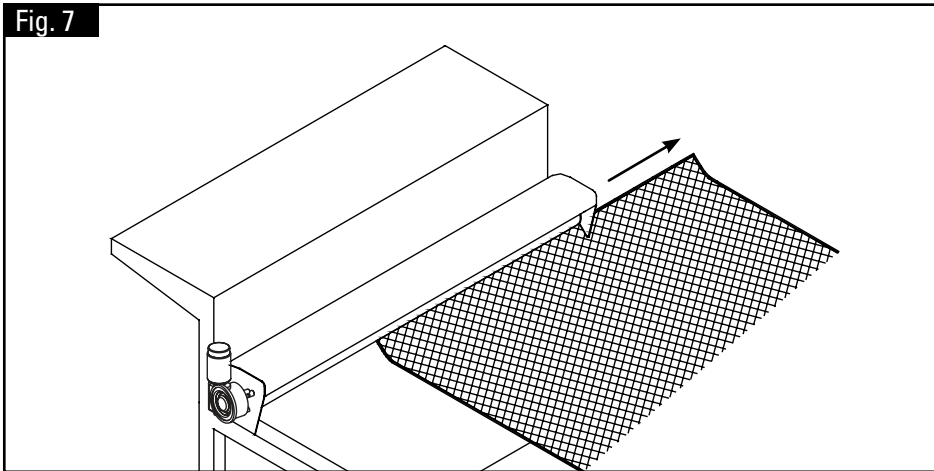
Installation Instructions

SuperShield™ 9500 w/Electric Drive Unit & Conversion Kit

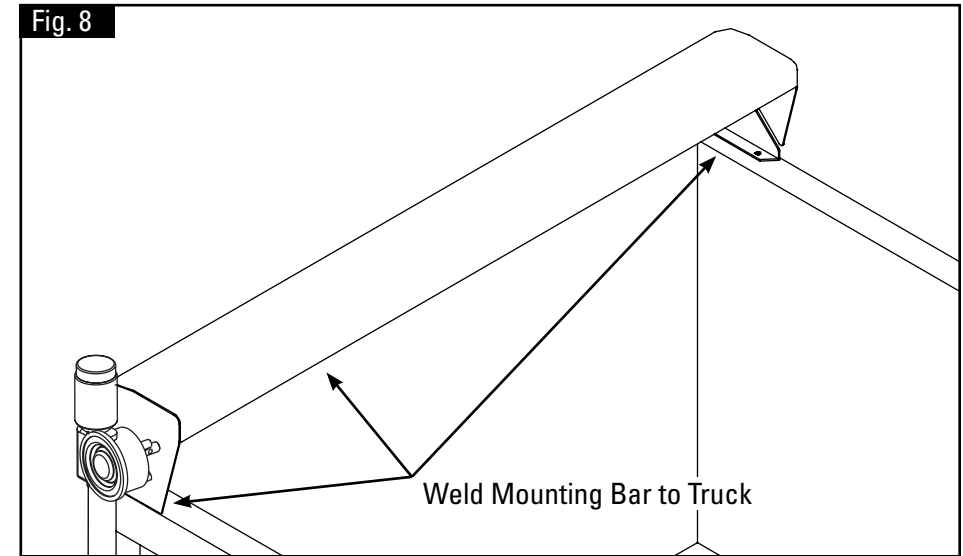
Removing Tarp & Welding System to Truck

Step 2: Before welding remove tarp to avoid damage (Fig. 7). To remove tarp slide the tarp out of the slotted end of the housing and remove from work area.

NOTE: If needed, remove Tarp before welding.

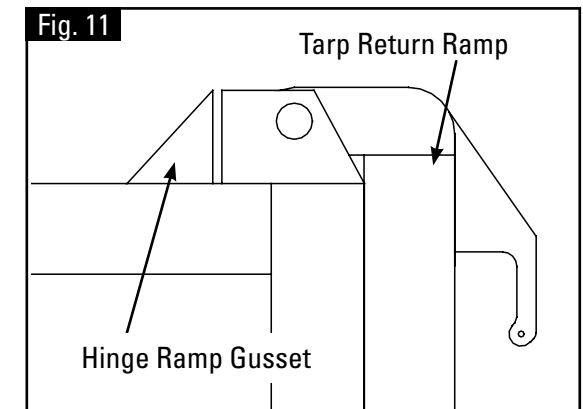
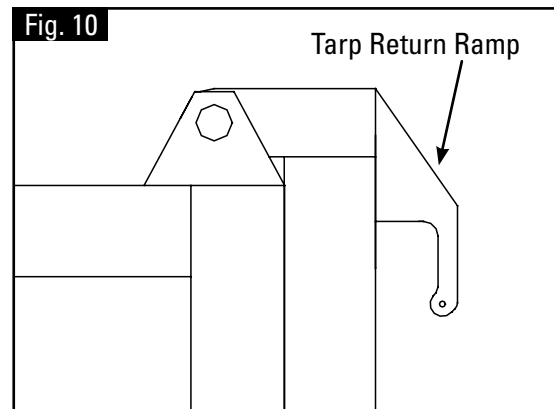
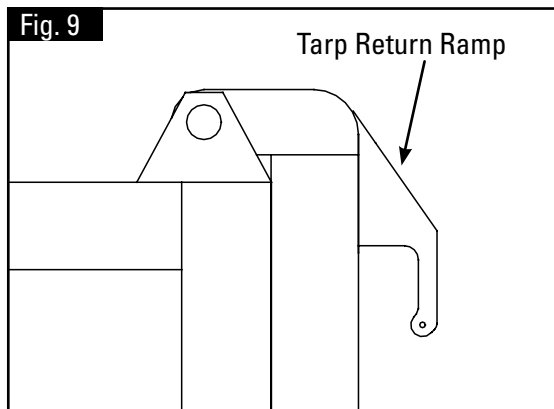


Step 3: Weld system mounting bar to truck as shown in Fig. 8.



Step 3. Weld on Tarp Return Ramps

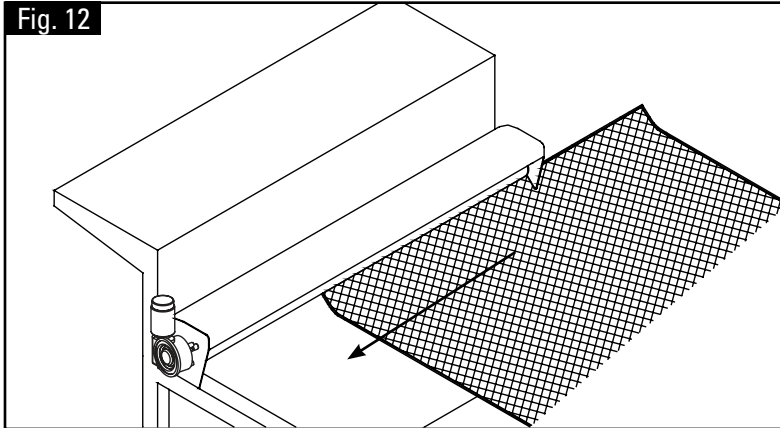
The Tarp Return Ramps hold the pullrod in place once the tarp has been deployed. The ramps should be welded as high as possible. See Fig. 9 & 10 for your application. Make sure all rough edges are ground smooth. If you have a raised hinge you will need to add a Hinged Ramp Gusset (NOT SUPPLIED) see Fig.11.





Reinstalling Tarp & Mounting Rope Hooks

Fig. 12



Step 5. Reinstall Tarp

Slide the front end of tarp (with beaded rod) into the slot of the roller from the opposite side of the locking bolt. If needed, lubricate the edge of the tarp with soapy water so it will slide into the roller slot easy (Fig. 12).

After the tarp is in place, make sure that it is centered on the roller with an equal amount of space on each end, and that the bead tubing is also equally spaced. If the tarp rolls up consistently off to one side or the other, you can offset the tarp to the opposite side on the roller to start with, this way the tarp will roll up as centered as possible.

TARP MUST BE RETRACTED WHEN DUMPING!

Step 6. Rope Storage Hook Installation

Mount the rope hooks as low as possible. The rope should come straight down and wrap around the center hook and then coil off to the side (Fig. 13). When tarp is not in use, space the hooks far enough apart to store the full length of rope (Fig. 14).

Fig. 13

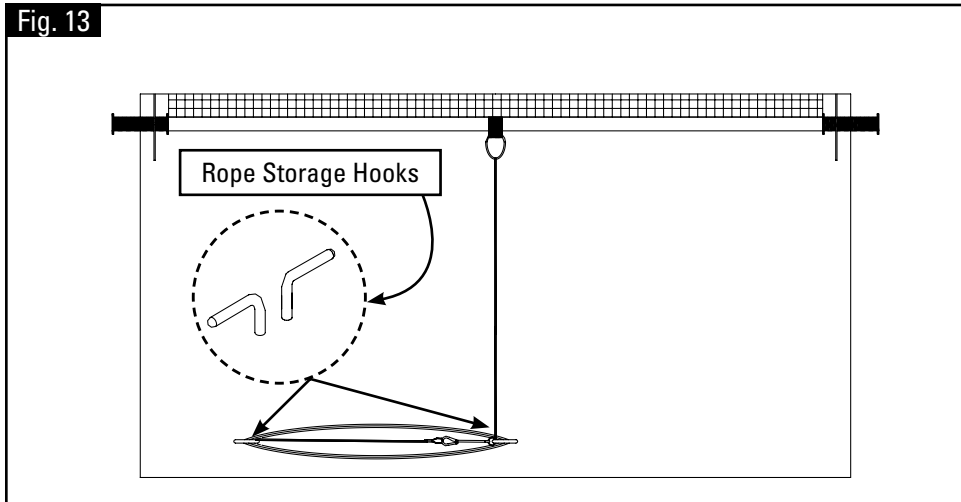
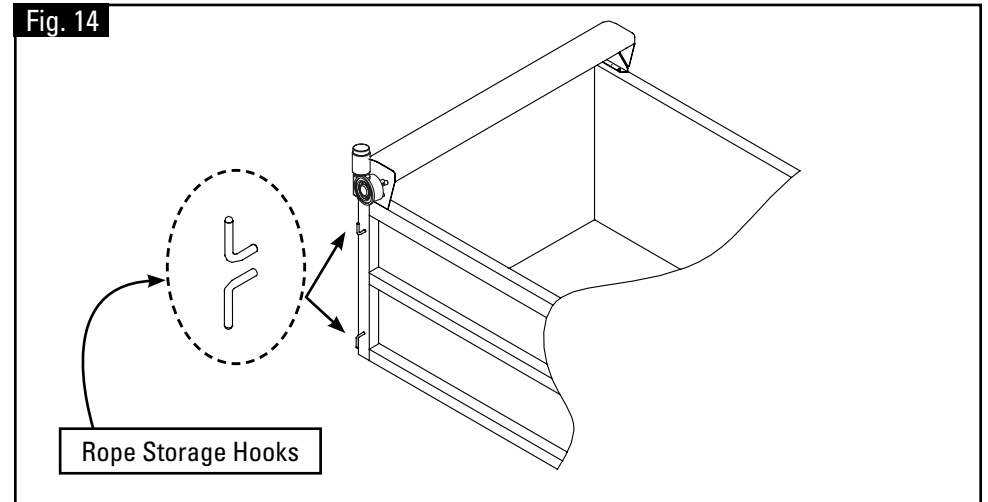


Fig. 14





Installation Instructions

SuperShield™ 9500 w/Electric Drive Unit & Conversion Kit

Optional Flap Tarp, Rope and Hook Installation

Parts:

Tie Down Hooks (Steel or Alum.)



Pull Down Hook



Note: The Location Of The Tie Down Hooks Is Critical!

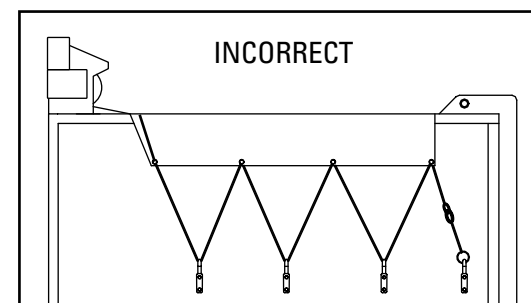
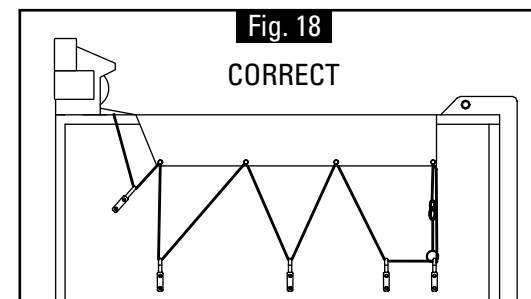
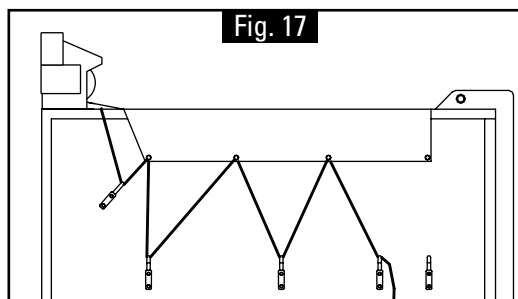
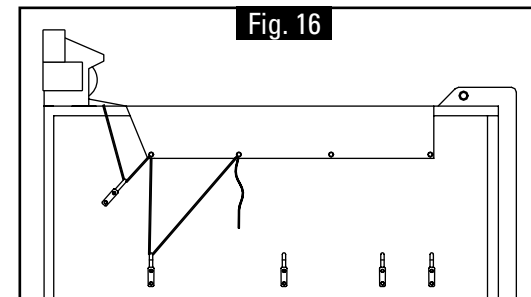
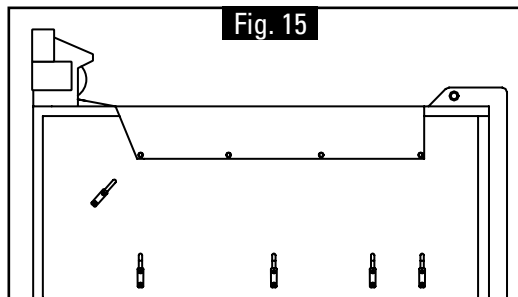
Step 1: Flip the braided rope over the corner so that the flaps and tie down ropes hang over each side of the box. The number of tie down hooks vary depending on the length of your tarp. One pull down hook is included with your Pulltarp system. If needed. Use the hook to pull the braided rope and flaps over the side of the box.

The tie down hooks must be positioned so that:

1. The tie down rope can be reached from the ground.
2. The bungee cord has to be stretched to reach the last hook (see Step 2).
3. The rope has no slack.
4. The tie down hooks are level with one another.

To ensure proper hook placement, first duct tape the rope to the box in place of the tie down hooks. Start with hook closest to the cab.

1. Position the first hook 6" (15.24cm) down and 12" (30.48cm) forward (toward the cab) from the first grommet (Fig. 15).
2. Position 2nd hook straight down from 1st grommet. This hook should be reached from ground (Fig. 16).
3. Place middle hooks equal distances from grommet (Fig. 17). These hooks should be placed at the same height as the second hook.
4. Position last hook (closest to the tailgate) below the last grommet at the same height as the others (Fig. 18).
5. Weld hooks in place.



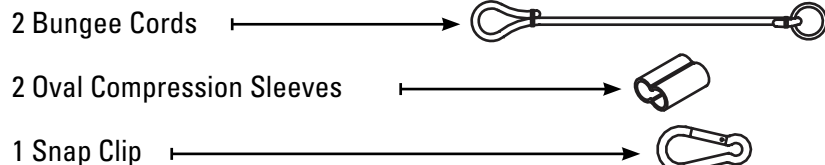


Installation Instructions

SuperShield™ 9500 w/Electric Drive Unit & Conversion Kit

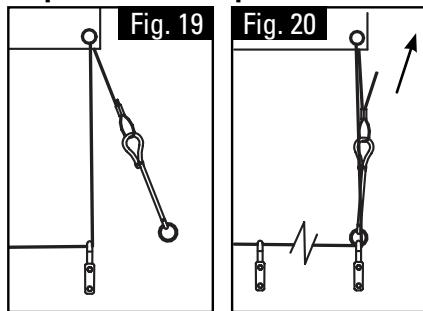
Bungee Cord Installation

Parts:



Step 2: After side hooks are installed, the tie down rope must be installed and cut to proper length. It is important to get all of the slack out of the rope to prevent blowing and rubbing of flaps in windy conditions.

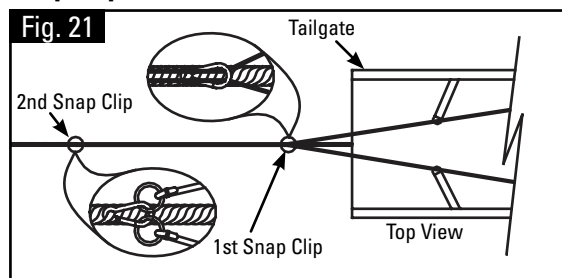
Tarps with Side Flaps



To tighten, pull loose end of rope through the Oval Compression Sleeve (Fig. 19). Stretch the bungee cord making sure all slack is taken out of the rope, crimp compression sleeve (Fig. 20). Be sure to keep flaps even on sides so Tie Down Ropes remain equal in length.

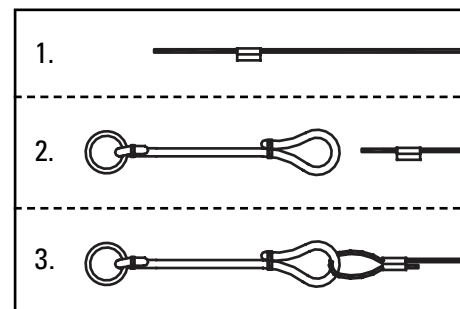
Note: Check for proper placement of rope through the last two hooks.

Snap Clip Installation



Flip the rope back on top of the tarp, making sure to hold the bungee at all times. The first snap clip is factory installed 5'-6" from the pullrod. Open the clip and enclose the rope. Weave the second clip through the main pullrope where the ends of the bungee cords meet the main pullrope. Make sure the rope is taught when clipped (Fig. 21).

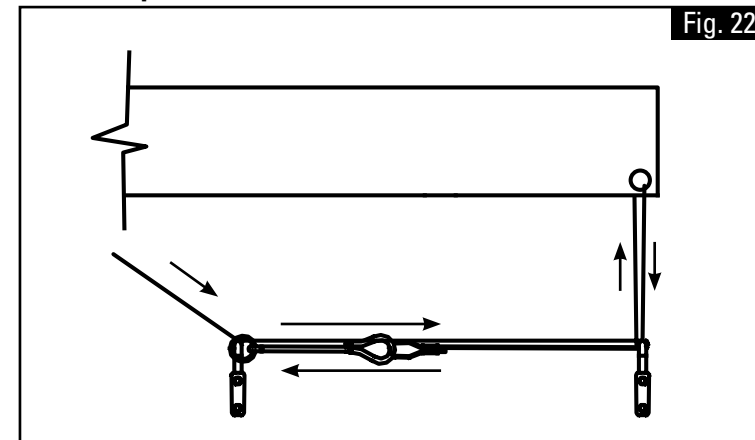
Note: First snap clip should not be used on long wheel base belly dumps.



Connect Bungee Cord to Rope

1. Thread braided rope through Oval Compression Sleeve.
2. Feed rope through the eye of the bungee cord.
3. Thread the rope back through the oval compression sleeve. Adjust for proper length. Crimp compression sleeve.

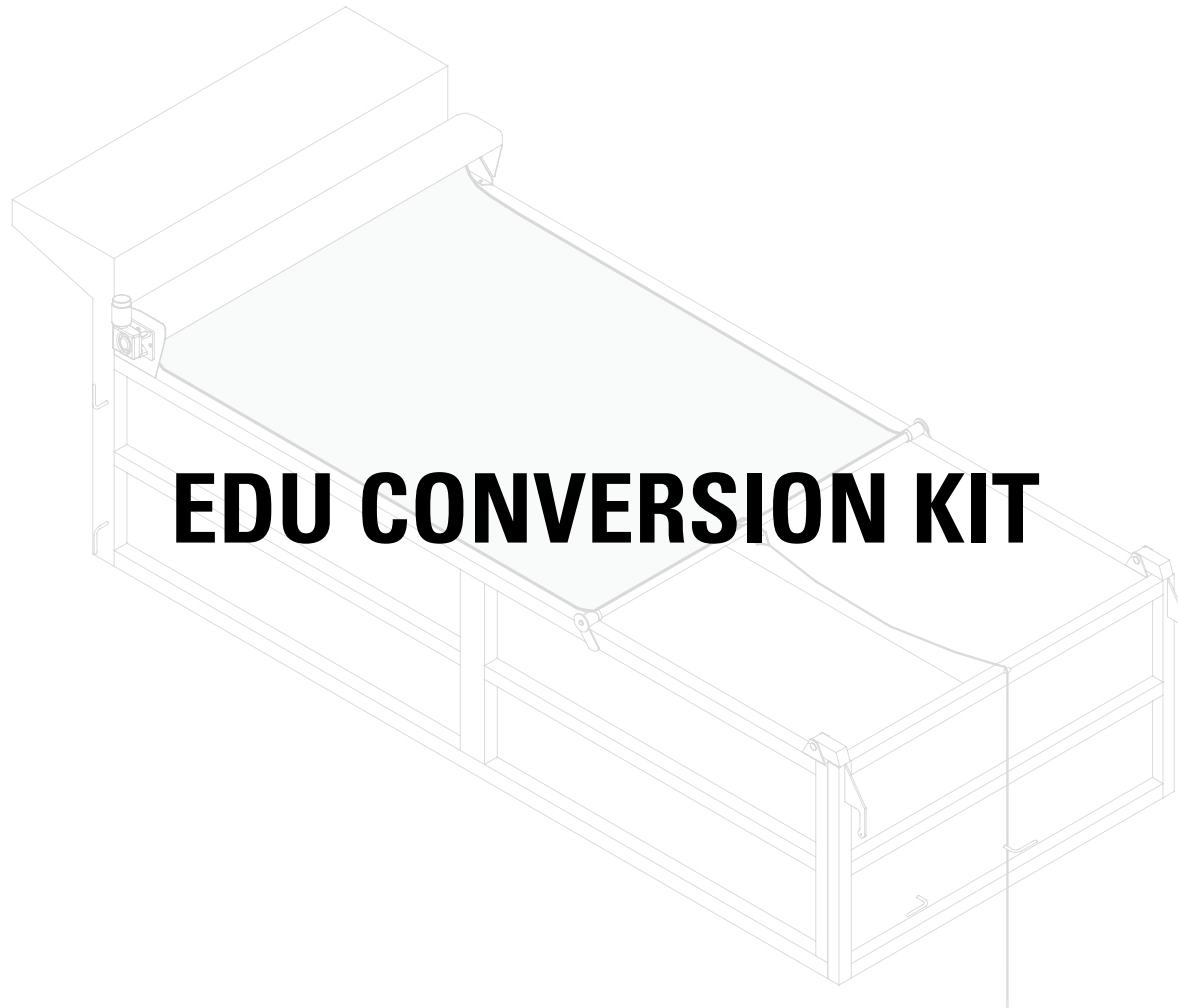
Excess Rope



You may need extra rope to keep the side flap system ground operated. If your application requires extra rope, the slack needs to be taken up by a taching the end of the bungee cord to an alternate hook (Fig. 22).



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Installation Instructions

SuperShield™ 9500 w/Electric Drive Unit & Conversion Kit

EDU Conversion Kit to add Electric Drive to existing housing (Galvanized Steel Roller Tube)

Step A. Removing the Spring

Remove the 7/16" bolt covering the access hole in the ratchet cover. Pull the tarp all the way out, secure to the tailgate. Insert a 3/8" x 3" bolt through the hole in the ratchet cover plate and into the groove in the roller tube (Fig. 23).

Step B. Remove Tarp from Housing

Slide the tarp out of the roller tube through the slotted end plate (opposite side as ratchet) (Fig. 23).

Step C. Releasing the Spring Tension on the Roller Assembly

1. With a 3/4" box end wrench, turn the ratchet nut clockwise just far enough to relieve tension on the ratchet dog (Fig. 24).
2. Place flat blade screwdriver on top of the ratchet dog to disengage it from the ratchet gear.
3. With both hands, turn the wrench counter clockwise to remove all of the tension from the spring. Do not let go of wrench! (be sure all of the tension has been released).

Step D. Removing the Ratchet Cover Plate

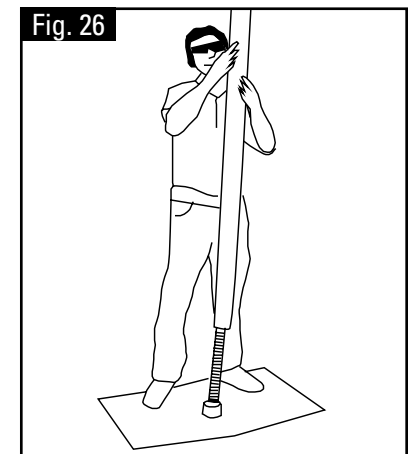
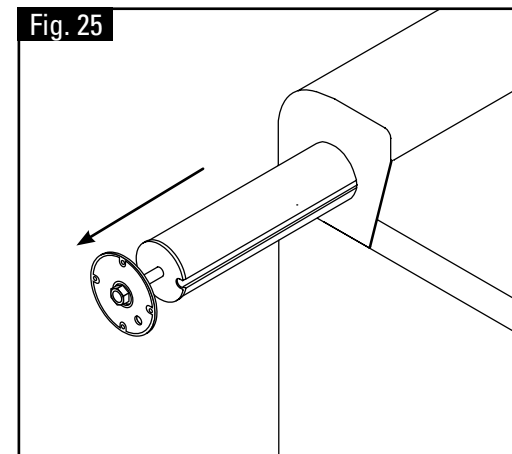
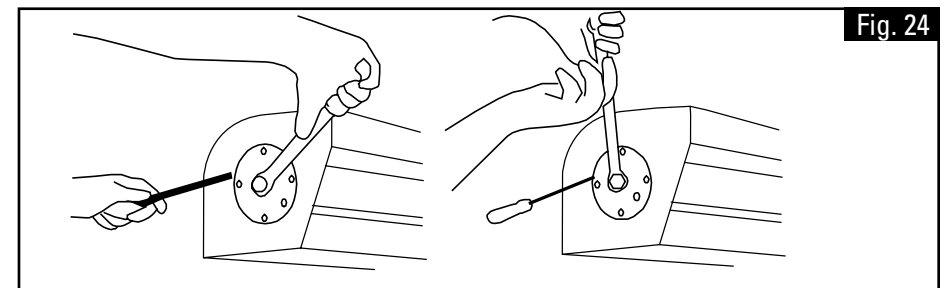
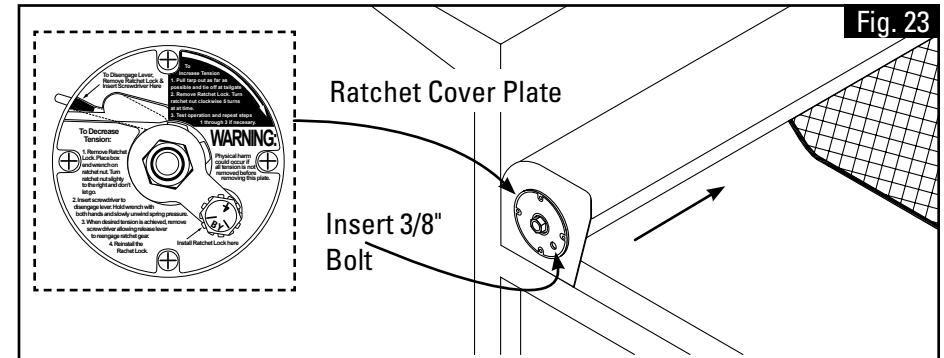
Remove the four screws from the ratchet cover plate and carefully take the plate off.

Step E. Remove the Roller Tube

Pull the entire roller tube assembly out the side of the housing (Fig. 25).

Step F. Removing the Spring Assembly

1. Remove the retaining screw from the end cap.
2. Place a piece of cardboard on the ground and hold the roller assembly vertically, with the ratchet assembly towards the ground.
3. Shake the roller assembly up and down above the cardboard to pop the end cap and spring assembly free from the roller tube (Fig. 26). The card board is to protect the end of the spring shaft when it breaks free.





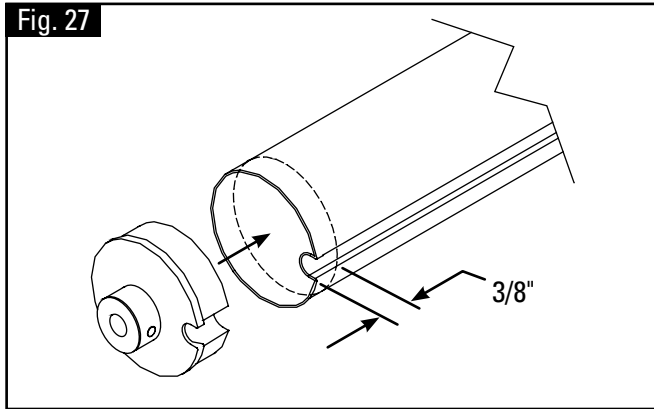
Installation Instructions

SuperShield™ 9500 w/Electric Drive Unit & Conversion Kit

EDU Conversion Kit to add Electric Drive to existing housing (Galvanized Steel Roller Tube)

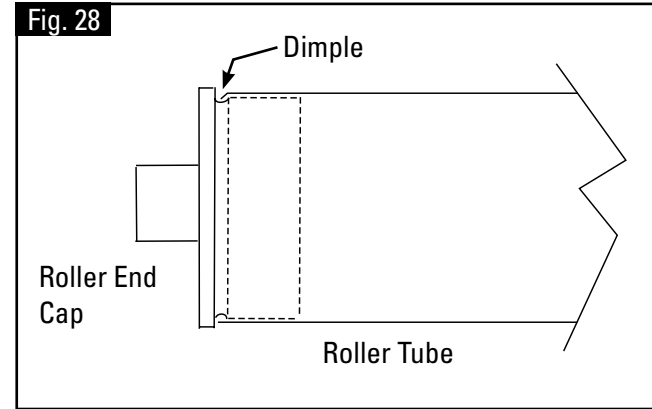
Step G: Install Roller End Cap

Before installing the Roller End Cap, the Roller Tube may need to be cut to fit into the housing properly. Cut tube an additional 3/8" (Fig.27).



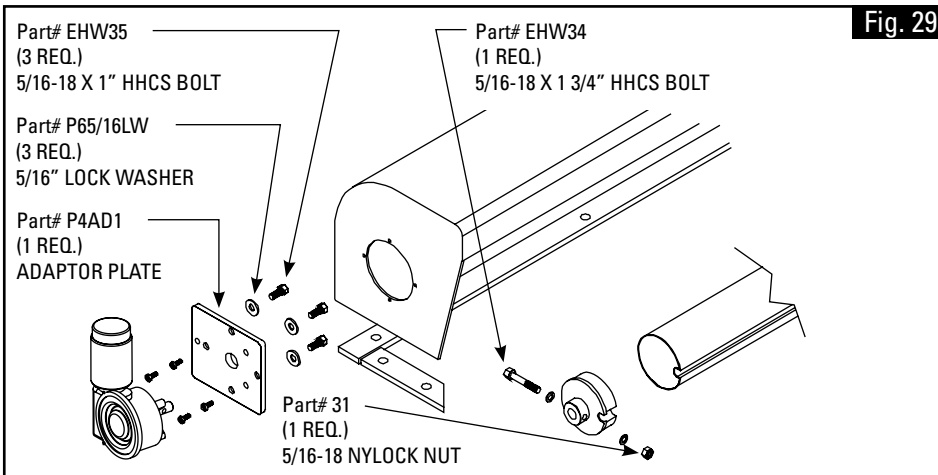
Step H: Dimple the Roller Tube

Once Roller End Cap is in Roller Tube, Dimple the end of the Roller Tube into the groove of the Roller End Cap with a flat head screw driver in three places (Fig. 28).



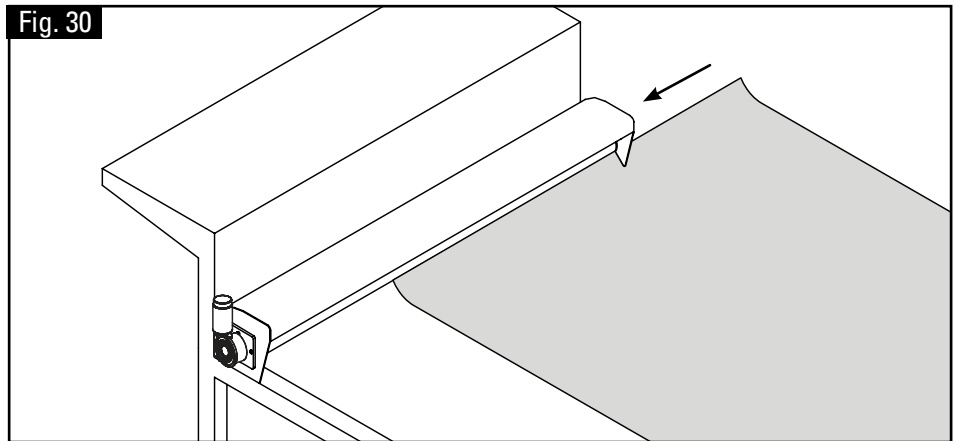
Step I: Universal Super Shield

Install motor as shown below (Fig. 29).



Step J: Tarp Installation

Slide Tarp into groove on Roller Tube and center (Fig. 30).



NOTE: See 25 AMP Switch Kit for Wiring Instructions.



25 AMP SWITCH KIT / 514-0101 INSTALLATION

FOR 25 AMP SWITCH KIT INSTALLATION INSTRUCTIONS, SEE DOCUMENT 607-0059 OR [CLICK HERE](#)