



Installation Instructions

Automatic Systems for Arm Sets up to 40 feet

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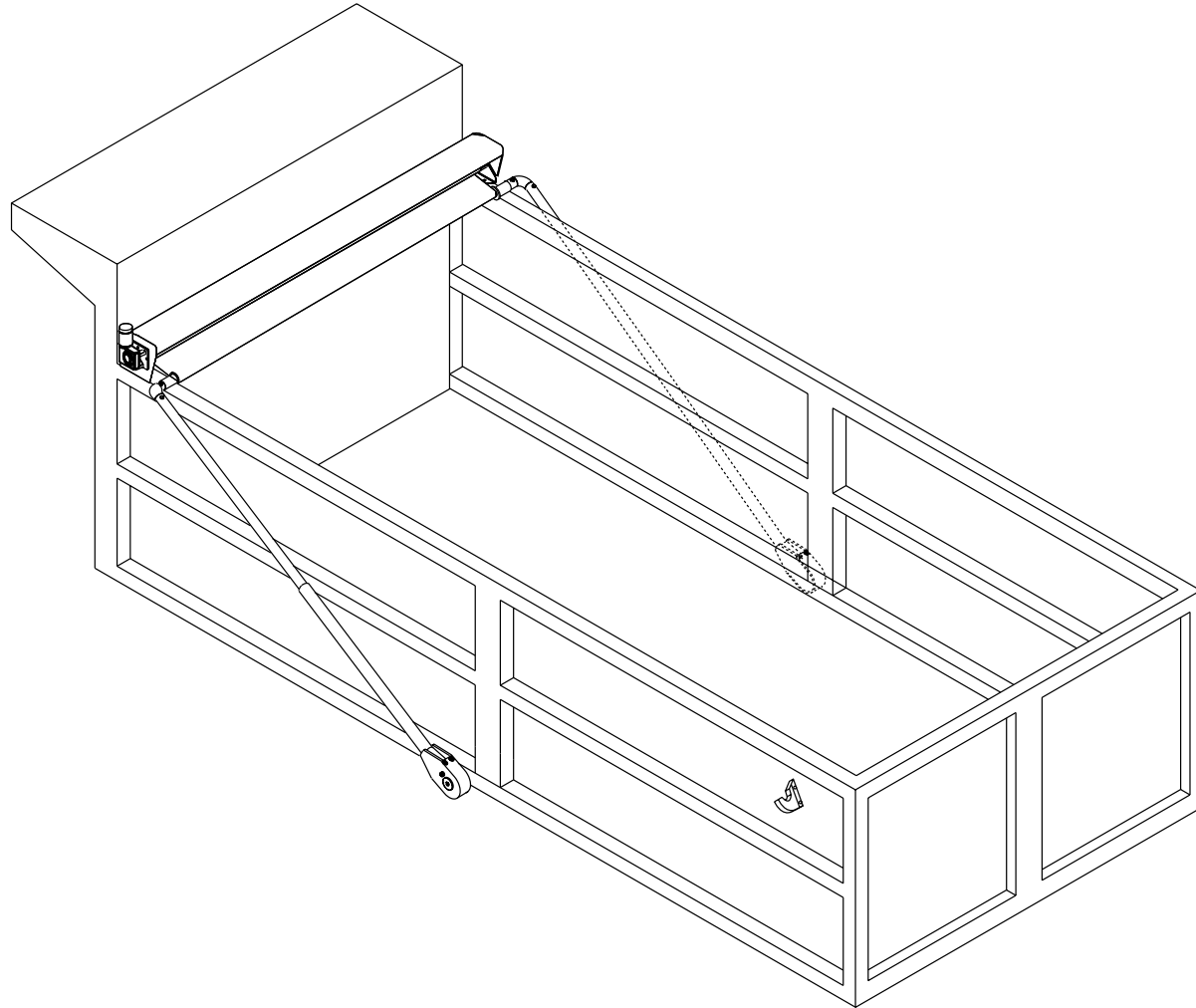


[PDF: High Amp Switch Kit](#)



[Video: SuperShield™ 9500E Operation](#)

Open 9000E (201-0215), Steel Protector +™ (218-0215) & SuperShield™ 9500E(210-0215)



DURING INSTALLATION, SOME FABRICATION MAY BE REQUIRED.

607-0027

WLH 11/22/21



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TOOLS, DIAGRAMS & PARTS



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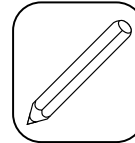
Recommended Tools



Safety Glasses and Gloves



Welding Equipment & Helmet



Pencil or Marker



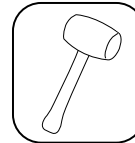
Metal File



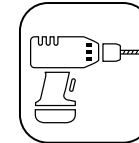
Hacksaw



Tape Measure



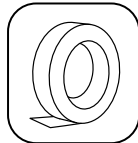
Rubber Mallet



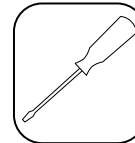
Impact Drill (Optional)



Adjustable Wrench



Masking Tape



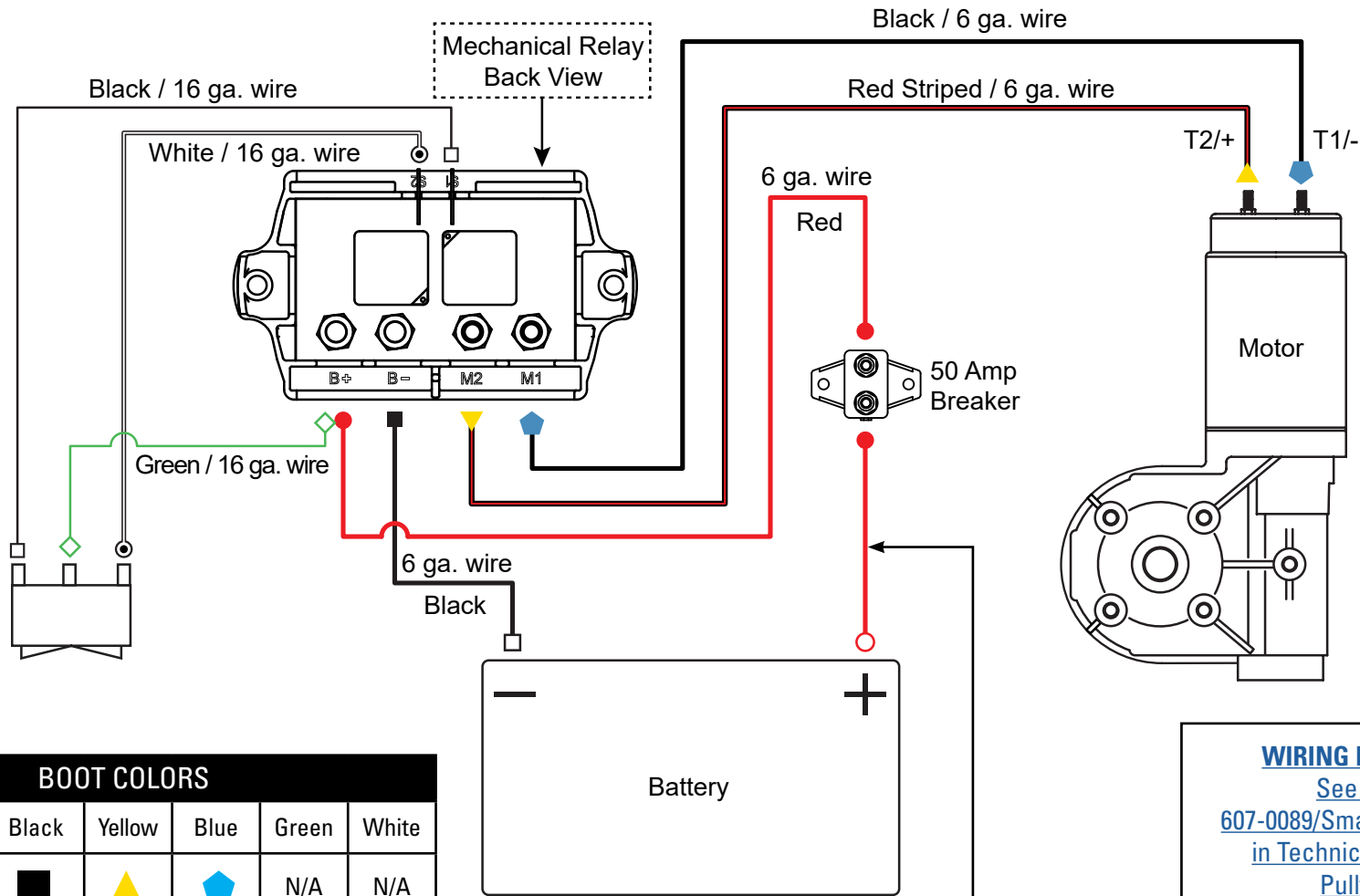
Flathead Screwdriver



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Smart Switch Basic Kit - Wiring Diagram #514-0114 (Optional)



BOOT COLORS						
	Red	Black	Yellow	Blue	Green	White
With Boot					N/A	N/A
No Boot			N/A	N/A		

WIRING INSTRUCTIONS
 See document
[607-0089/Smart Switch Basic Kit](#)
 in Technical Documents at
[Pulltarps.com](#)

Note: 12" Max distance between Battery and Breaker.

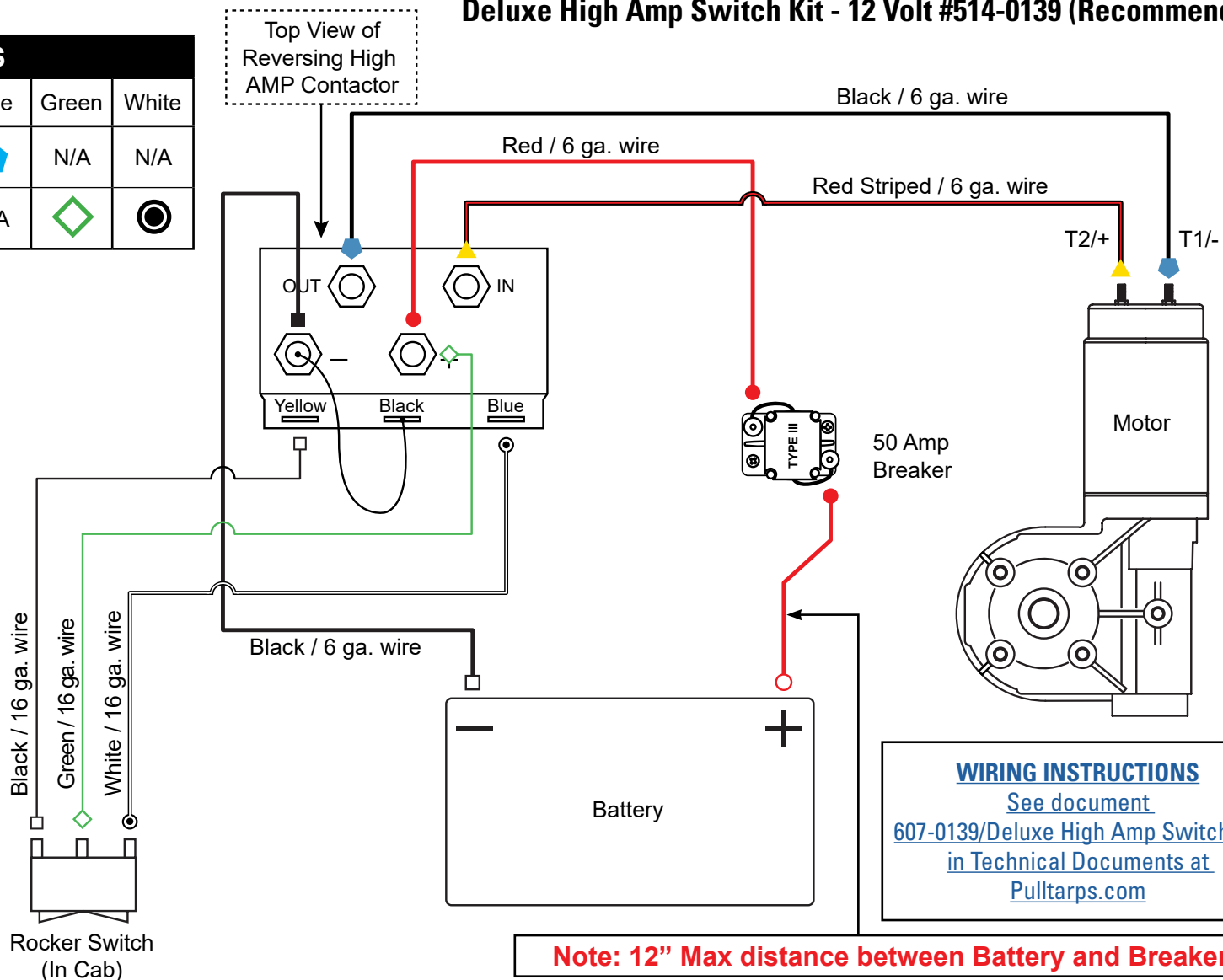


Installation Instructions

Automatic Systems for Arm Sets up to 40 feet

Deluxe High Amp Switch Kit - 12 Volt #514-0139 (Recommended)

BOOT COLORS						
	Red	Black	Yellow	Blue	Green	White
With Boot					N/A	N/A
No Boot			N/A	N/A		

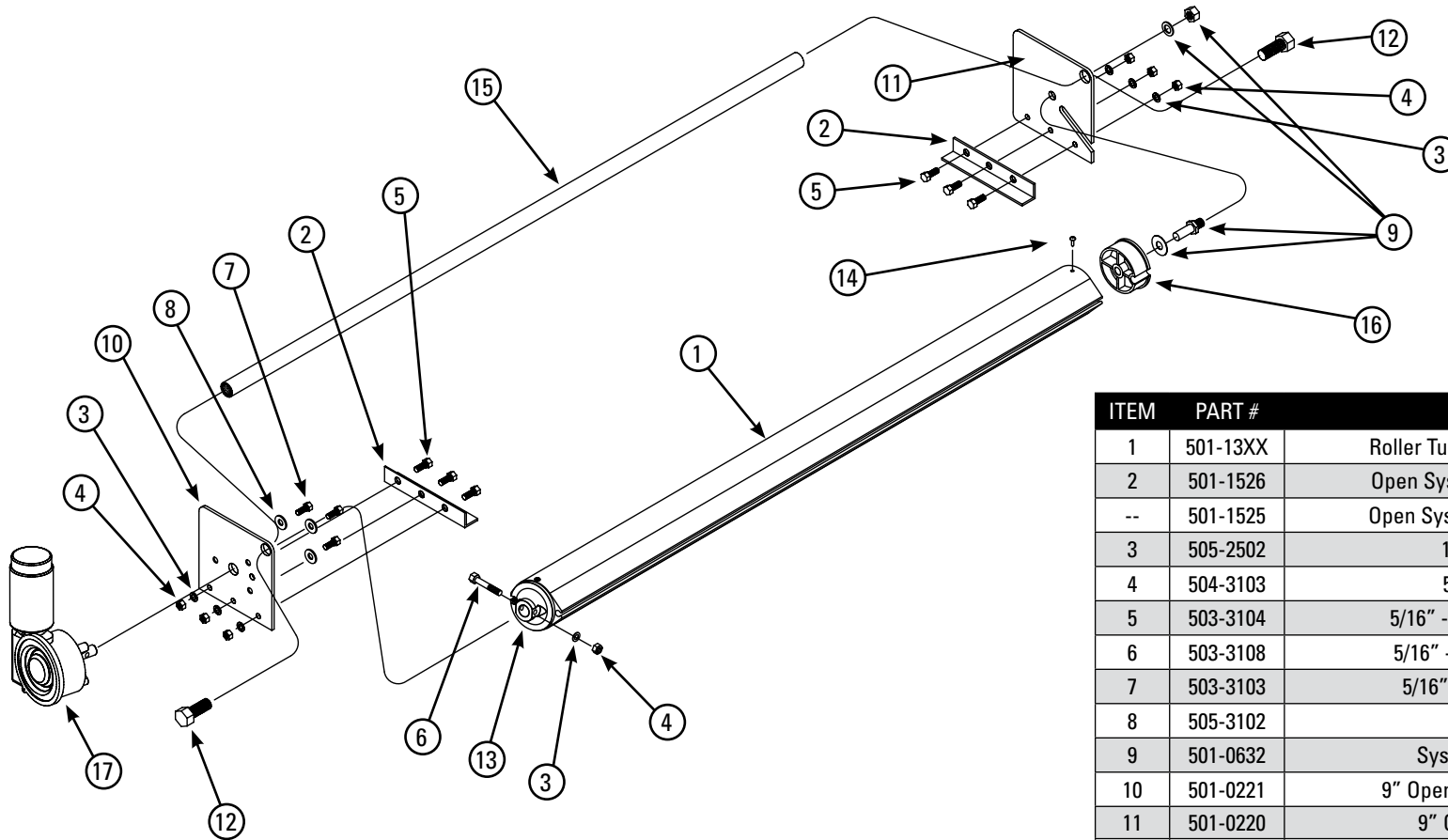




Installation Instructions

Automatic Systems for Arm Sets up to 40 feet

Open 9000E #201-0215



ITEM	PART #	DESCRIPTION	QTY
1	501-13XX	Roller Tube 80, 84, 87, 89, 93, 96, 100"	1
2	501-1526	Open System Mount Bracket (Steel)	2
--	501-1525	Open System Mount Bracket (Alum.)	2
3	505-2502	1/4" Flat Washer USS	7
4	504-3103	5/16" - 18 Nyloc Nut	7
5	503-3104	5/16" - 18 x 3/4"lg. Carriage Bolt	6
6	503-3108	5/16" - 18 x 1-3/4"lg. HHCS Bolt	1
7	503-3103	5/16" - 18 x 3/4"lg. HHCS Bolt	3
8	505-3102	5/16" Lock Washer	3
9	501-0632	System End Plate Stud Kit	1
10	501-0221	9" Open End Plate, Electric (Drvr.)	1
11	501-0220	9" Open End Plate (Pass.)	1
12	503-7501	3/4" - 10 x 1"lg. HHCS Bolt	2
13	501-9915	Roller Drive Aluminum End Cap	1
14	506-9916	Screw #8 - 18 x 3/4" Self Drilling	1
15	501-980X	Spacer Rod 7/8" - 80, 84, 87, 89, 93, 96, 100"	1
16	517-0102	Flanged End Cap	1
17	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor	1

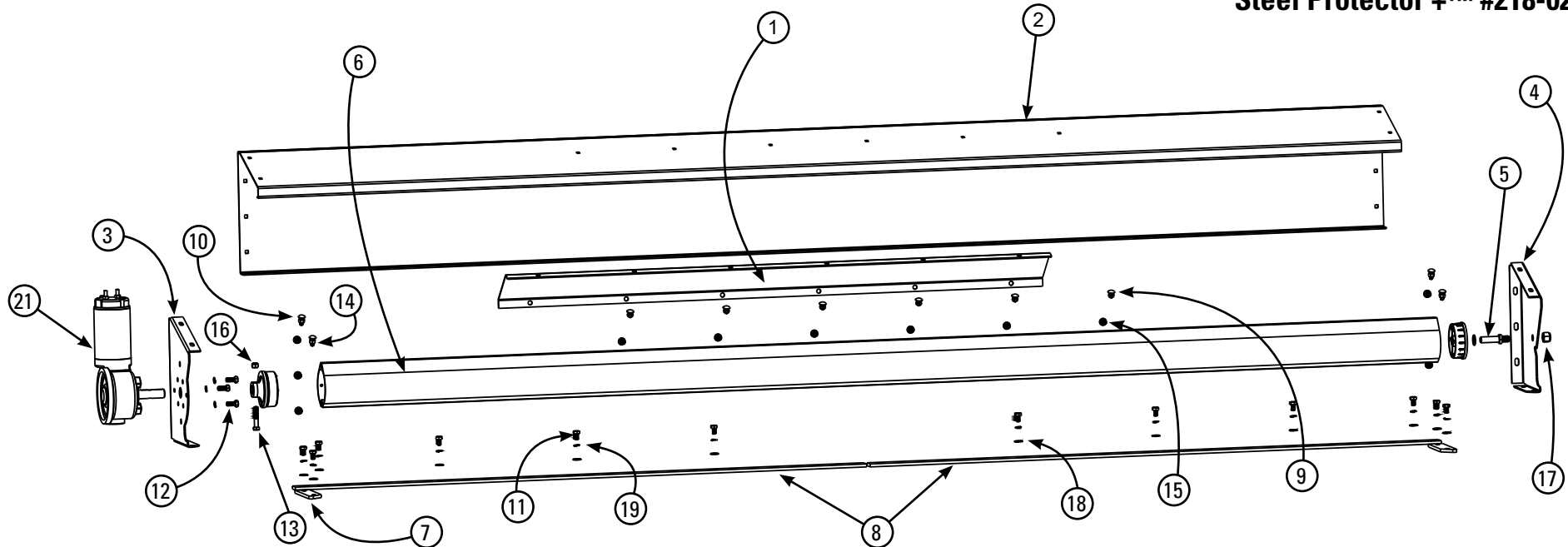
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Installation Instructions

Automatic Systems for Arm Sets up to 40 feet

Steel Protector +™ #218-0215



ITEM	PART #	DESCRIPTION	QTY
1	501-0138	Galvanized Insert	1
2	501-0190	87" Galvanized Steel Protector + Housing	1
3	501-0282	Protector + Electric End Plate	1
4	501-0281	Protector + End Plate Passenger	1
5	501-0801	System End Plate Stud 2.4"	1
6	501-1312	87" Roller Assembly for Electric Drive	1
7	501-1506	6" Large Steel Mounting Bar	2
8	501-1509	43.5" Mounting Bar Steel	2
9	503-2501	1/4" - 20 x 1/2" USS Carriage Bolt	12
10	503-2505	1/4" - 20 x 3/4" USS Carriage Bolt	10
11	503-3101	5/16" - 18 x 1/2" Hex Bolt	12

ITEM	PART #	DESCRIPTION	QTY
12	503-3103	5/16" - 18 x 3/4" HHCS Bolt	3
13	503-3108	5/16" - 18 x 1-3/4" HHCS Hex Bolt G2	1
14	504-2503	1/4" - 20 USS Nylock Nut	10
15	504-2506	1/4" Hex Lock Nut "Thin" L/N Steel Zinc	12
16	504-3103	5/16" - 18 Nylock Nut Steel Zinc	1
17	504-5001	1/2" Crimp Nut	1
18	505-2502	1/4" USS Washer 5/16" Hole	35
19	505-3102	5/16" Lock Washer	15
20	505-5001	1/2" AN Washer 1/16" Thick (Not Shown)	1
21	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor	1

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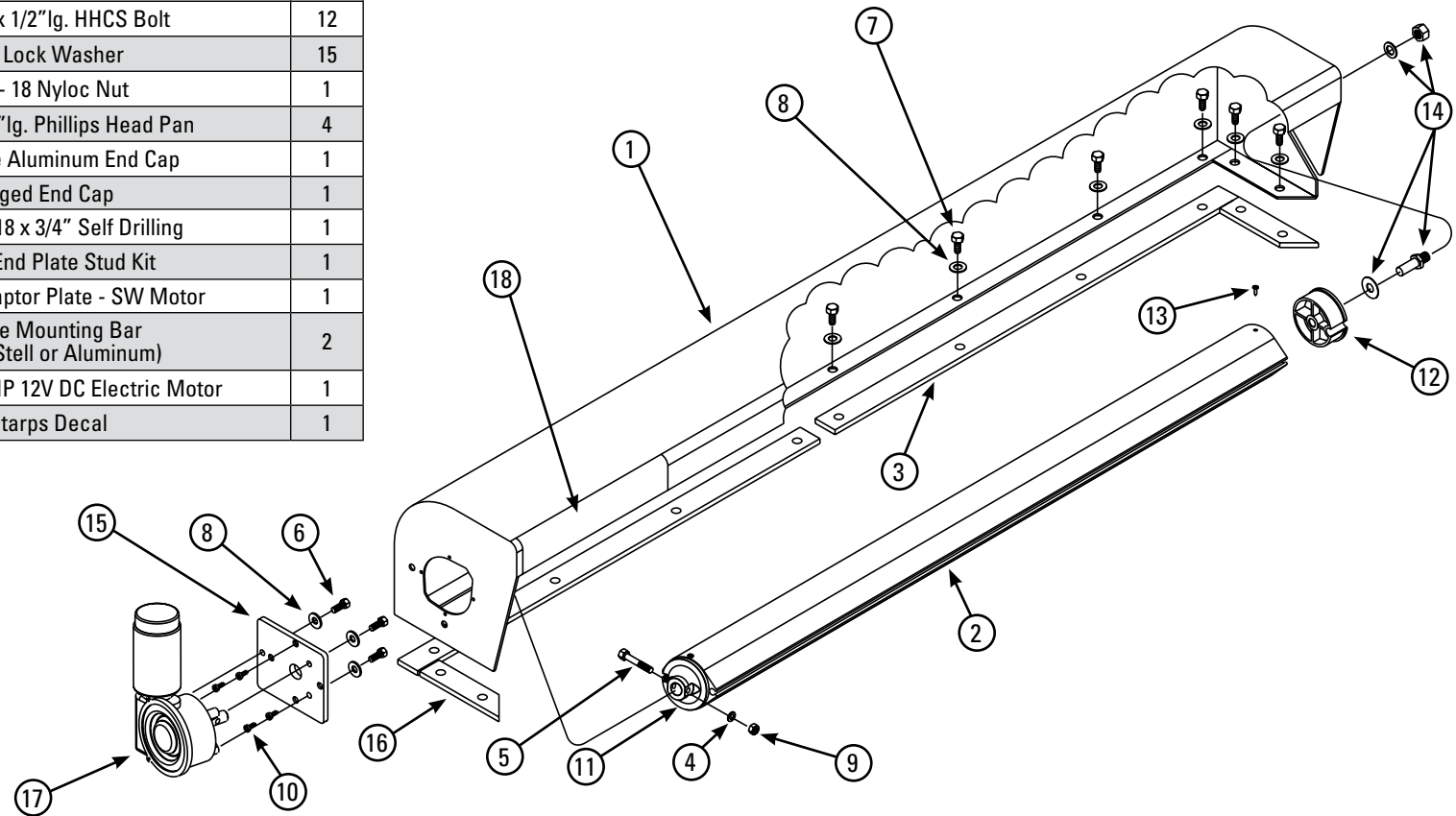
Installation Instructions

Automatic Systems for Arm Sets up to 40 feet

SuperShield™ 9500E #210-0215

ITEM	PART #	DESCRIPTION	QTY
1	501-01XX	9.5" Super Shield Hsg. 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	501-9915	Roller Drive Aluminum End Cap	1
12	517-0102	Flanged End Cap	1
13	506-9916	Screw #8 - 18 x 3/4" Self Drilling	1
14	501-0632	System End Plate Stud Kit	1
15	501-1235	Aluminum Adaptor Plate - SW Motor	1
16	501-150X	6" Large Mounting Bar (Specify Steel or Aluminum)	2
17	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor	1
18	607-0061	Pulltarps Decal	1

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Installation Instructions

Automatic Systems for Arm Sets up to 40 feet

A technical line drawing of a rectangular tarp structure, possibly a truck bed cover or a storage container. The drawing shows the internal frame and the mechanism for an automatic system, including a motorized arm and a cable system that runs along the top edge of the structure. The text "AUTOMATIC SYSTEMS INSTALLATION" is overlaid in large, bold, black capital letters across the center of the diagram.

AUTOMATIC SYSTEMS INSTALLATION

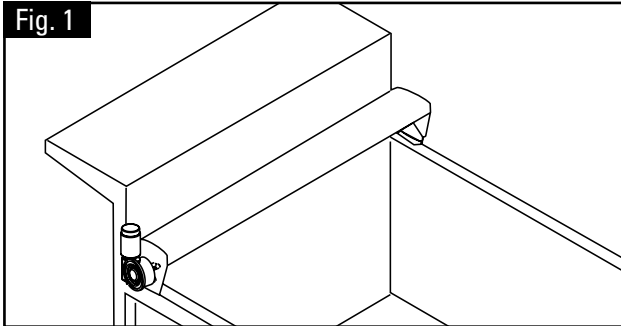


Installation Instructions

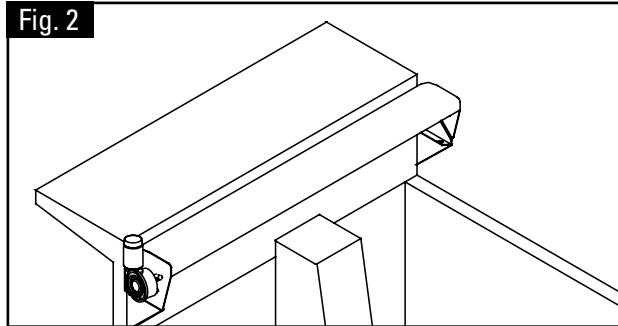
Automatic Systems for Arm Sets up to 40 feet

Mounting Positions

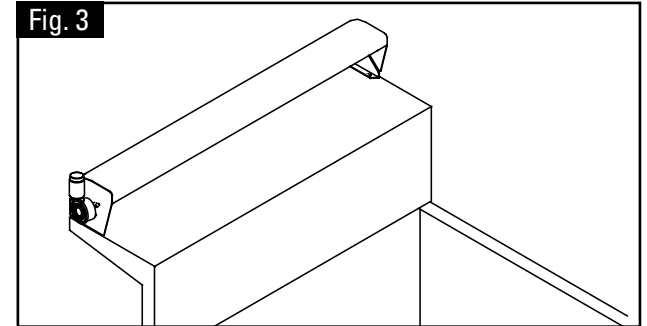
Step 1: Determine the mounting position for your truck Fig. 1 - Fig. 6.



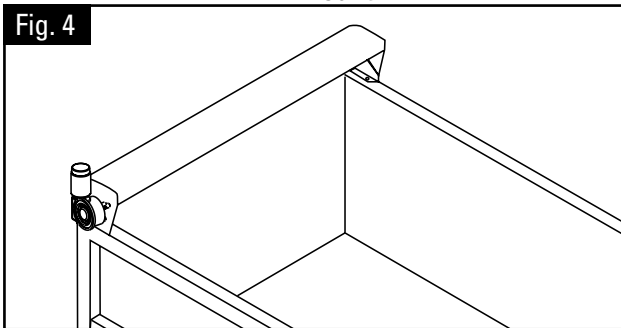
"A" Mount



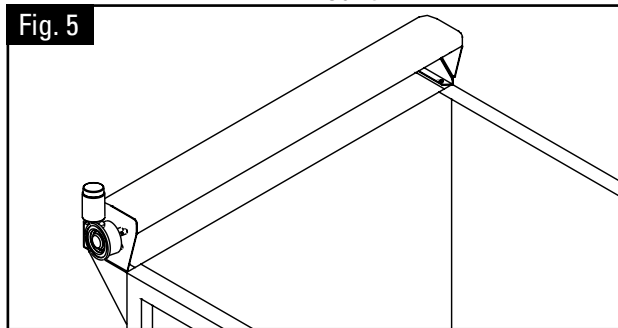
"B" Mount



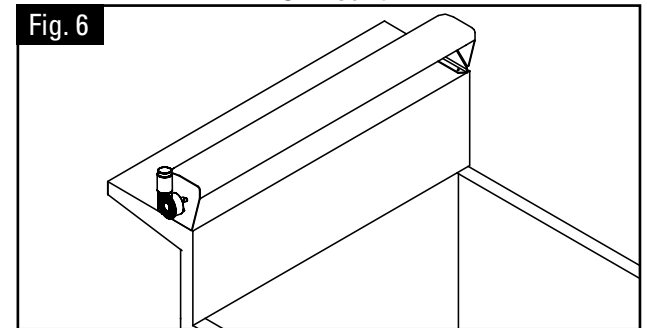
"C" Mount



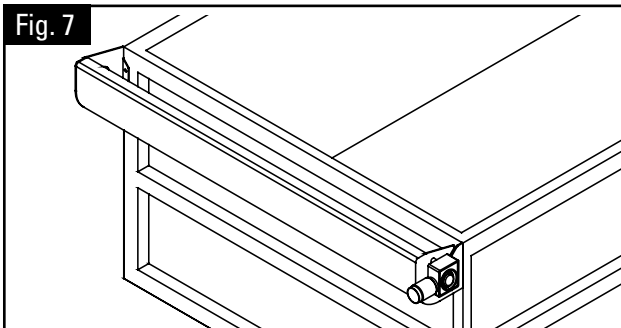
"D" Mount



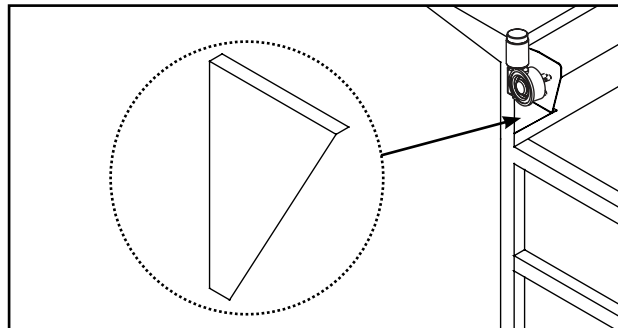
"E" Mount



"F" Mount



"G" Mount



"B" Brackets

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



Installation Instructions

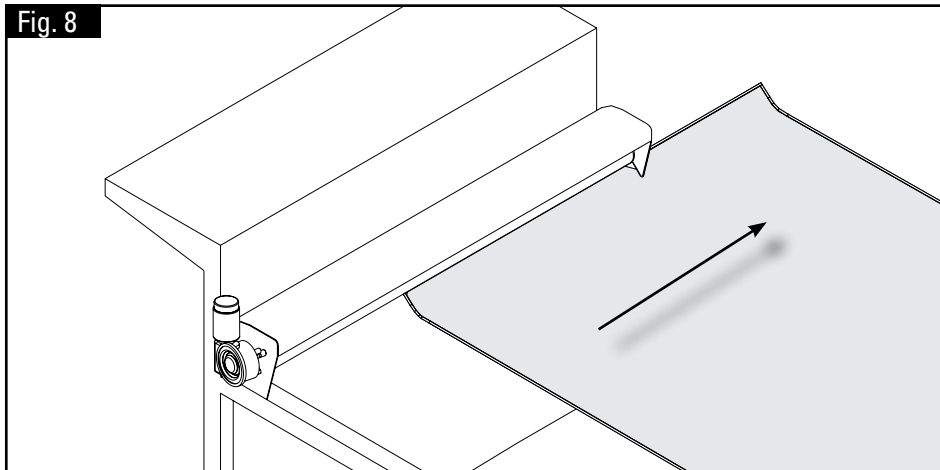
Automatic Systems for Arm Sets up to 40 feet

Welding System to Truck

Step 2: Before welding remove tarp to avoid damage (Fig. 8). 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.

Fig. 8



Step 3: Weld system mounting bar to truck as shown in Fig. 9.

Fig. 9

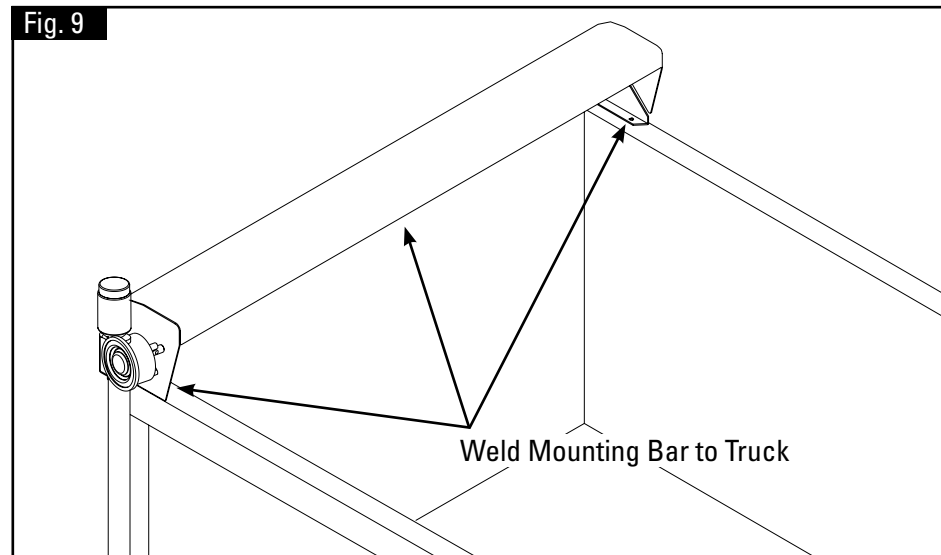
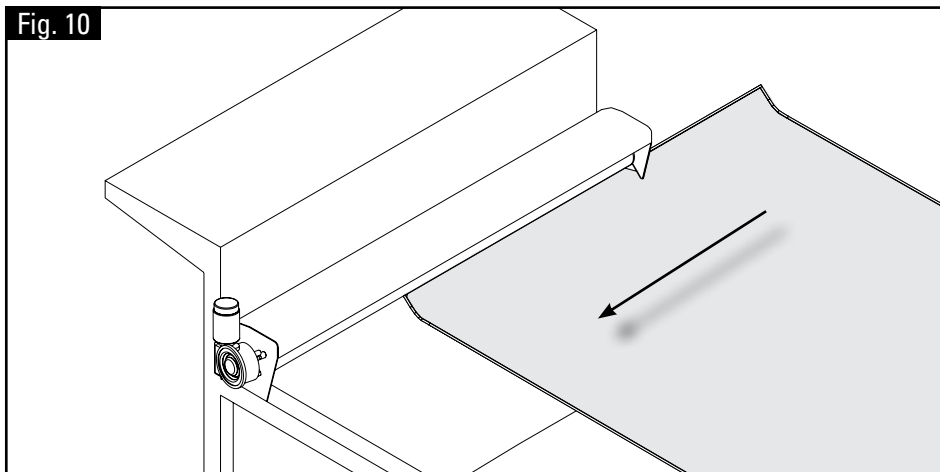


Fig. 10



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. 10).

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!



Installation Instructions

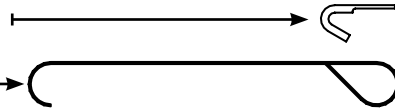
Automatic Systems for Arm Sets up to 40 feet

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!

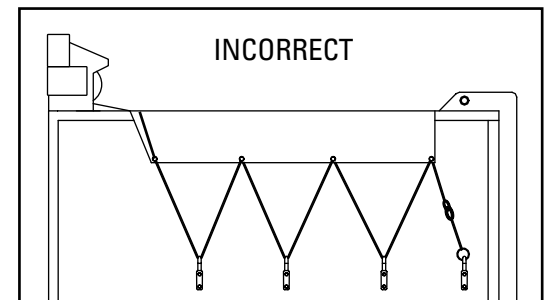
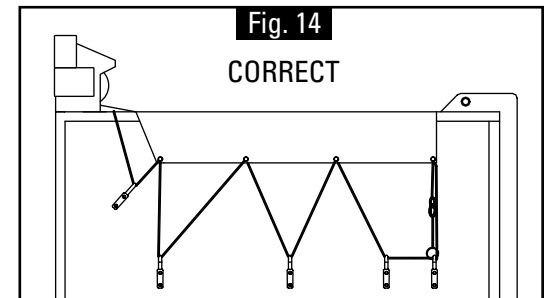
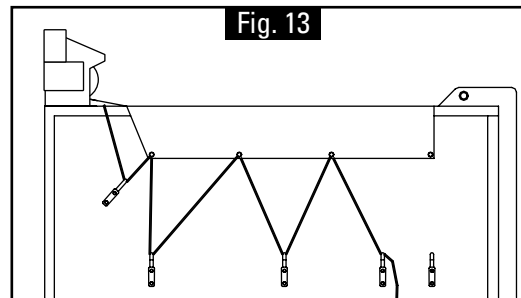
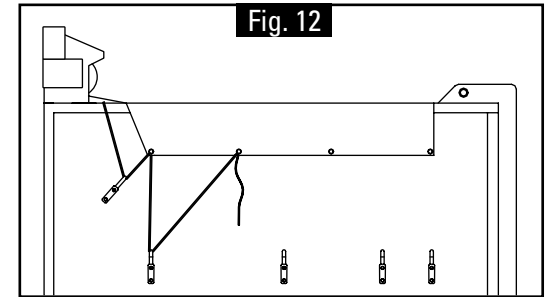
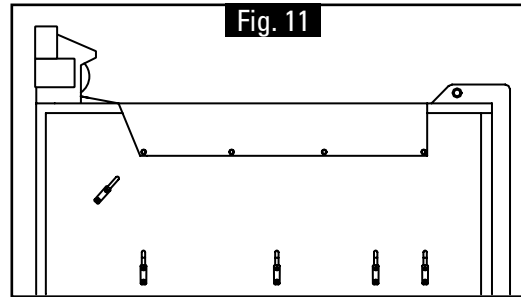
Step 1: Flip the braided rope over the corner so that the flaps and tie down ropes hang over each side of the box. The number of tie down hooks vary depending on the length of your tarp. One pull down hook is included with your Pulltarp system. If needed. Use the hook to pull the braided rope and flaps 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. 11).
2. Position 2nd hook straight down from 1st grommet. This hook should be reached from ground (Fig. 12).
3. Place middle hooks equal distances from grommet (Fig. 13). 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. 14).
5. Weld hooks in place.



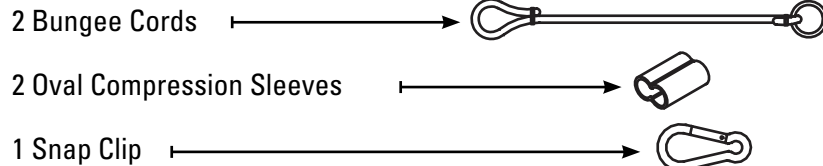


Installation Instructions

Automatic Systems for Arm Sets up to 40 feet

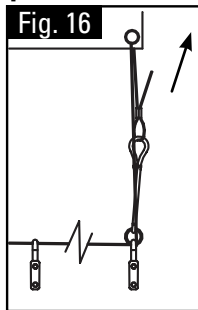
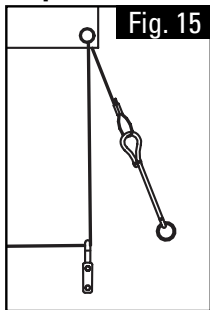
Bungee Cord Installation

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.

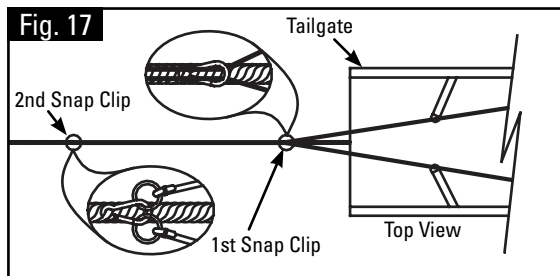
Tarps with Side Flaps



To tighten, pull loose end of rope through the Oval Compression Sleeve (Fig. 15). Stretch the bungee cord making sure all slack is taken out of the rope, crimp compression sleeve (Fig. 16). Be sure to keep flaps even on sides so Tie Down Ropes remain equal in length.

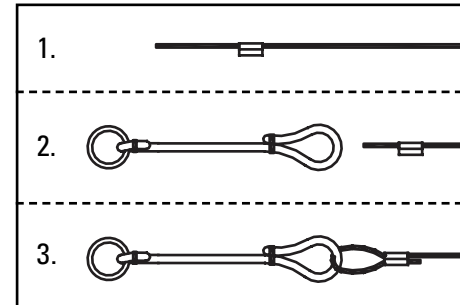
Note: Check for proper placement of rope through the last two hooks.

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. 17).

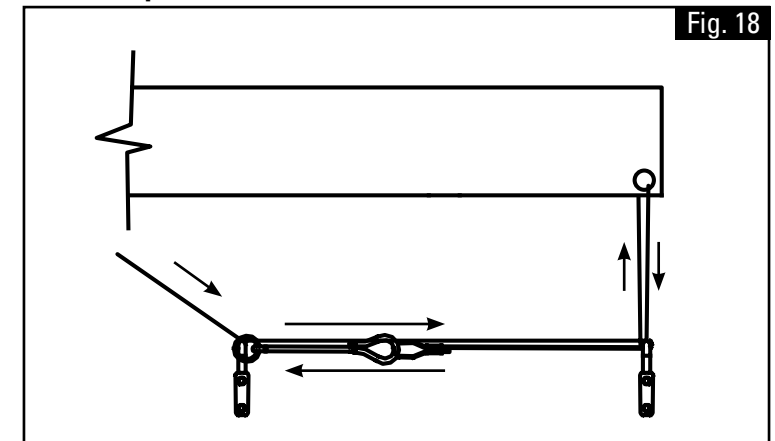
Note: First snap clip should not be used on long wheel base belly dumps.



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 attaching the end of the bungee cord to an alternate hook (Fig. 18).



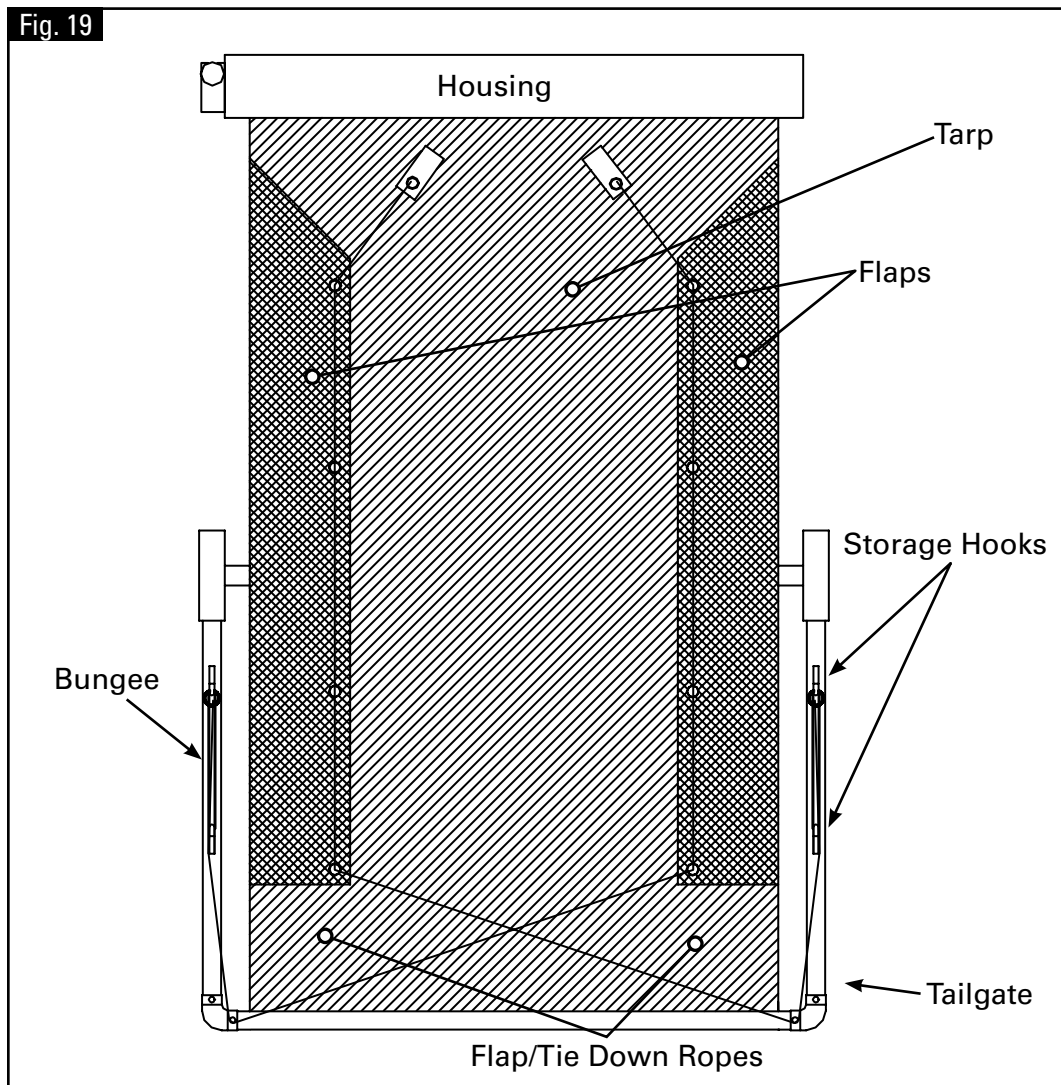
Installation Instructions

Automatic Systems for Arm Sets up to 40 feet

Flap, Rope and Rope Hook Placement

Step 6: Flap/Tie Down Rope placement and installation (Fig. 19).

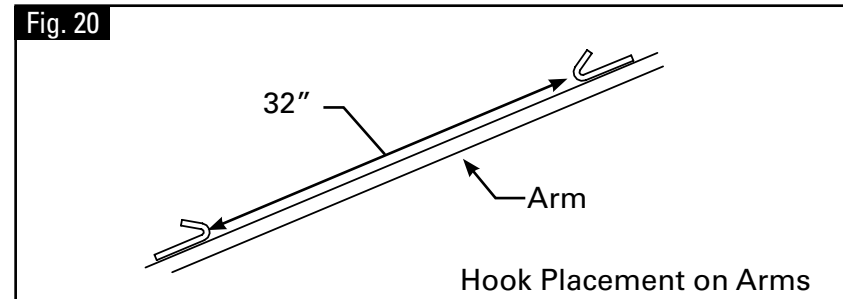
Fig. 19



Step 7: Rope Hook Placement For Steel Arms

Weld rope storage hook on the top of the arms approximately 32" apart (Fig. 20).

Fig. 20



Step 8: Rope Hook Placement For Aluminum Arms

Use Self Drilling screws (part #506-9933) to install Hooks (Fig. 21A & B).

Fig. 21A

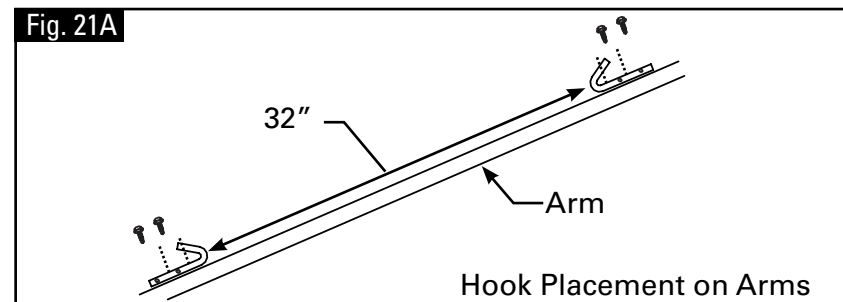
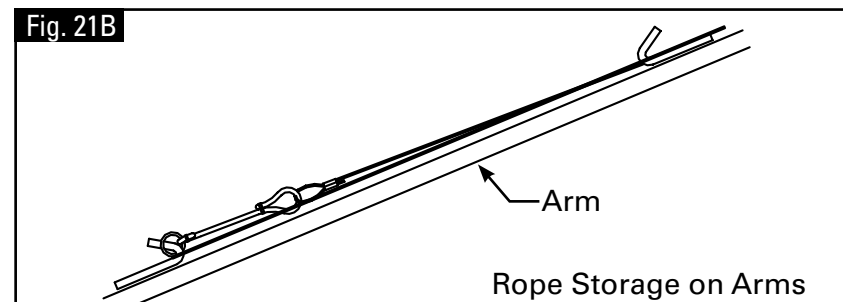


Fig. 21B





Installation Instructions

Automatic Systems for Arm Sets up to 40 feet

Plug Assembly

Step 18: Assemble the Quick Disconnect (Fig. 22, 23 & 24).

Option #1, Plug Assembly - Part # 514-0505.

Fig. 22

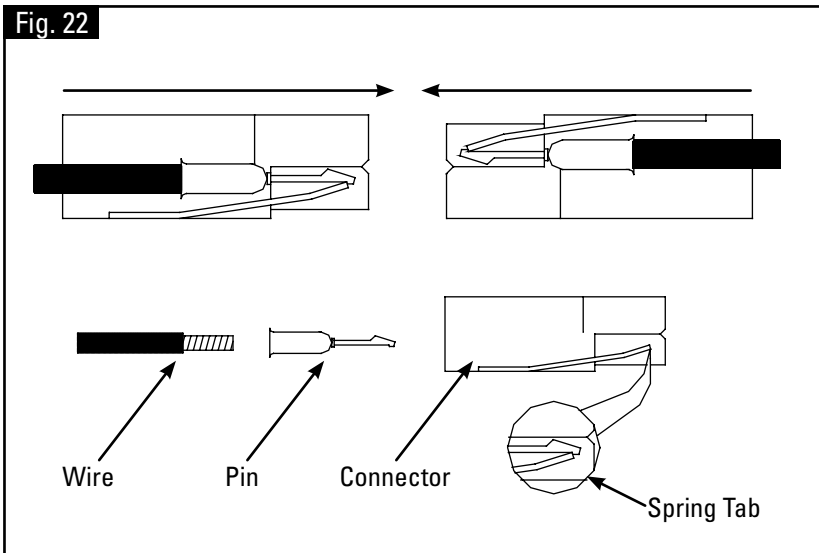
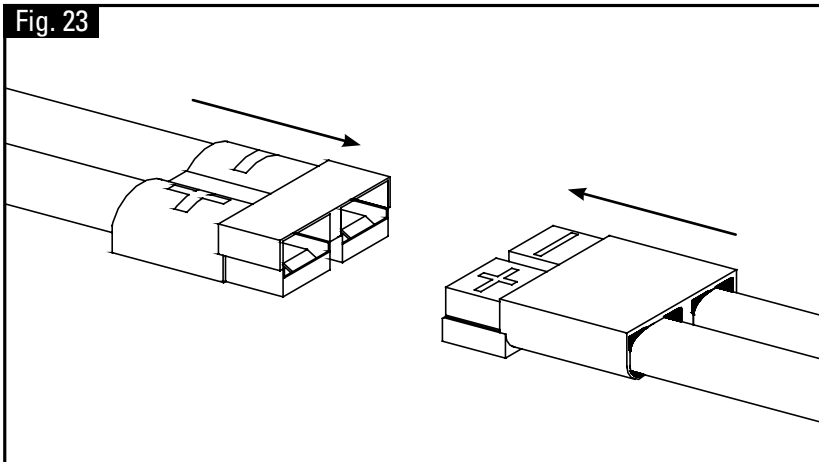


Fig. 23



Option #2, Plug Assembly - Part # 514-0501.

Fig. 24

