



PULLTARPS®



INSTALLATION INSTRUCTIONS

X-Pando (Pre-Adjusted / Set to Size)

116-3028, 116- 3018

Related Instructions,
How-To Videos & More



[PDF: System Wind Matrix](#)



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



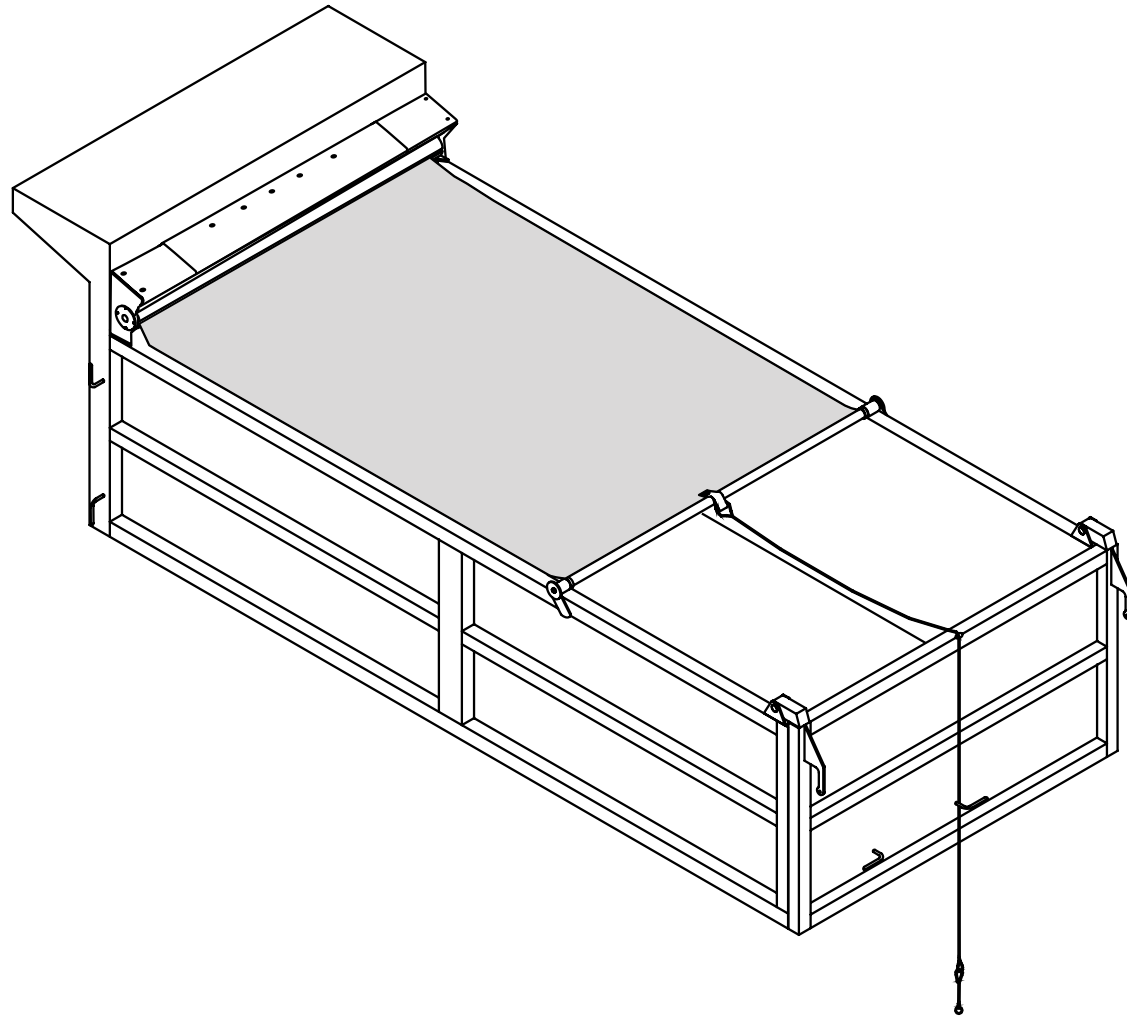
[PDF: Flap Tarps](#)



[PDF: Semi-Auto Ratchet Operation](#)



[Video: Ratchet Lock Operation](#)



Document #: 607-0113
Revised: 05/08/25 WLH

DURING INSTALLATION, SOME FABRICATION MAY BE REQUIRED.



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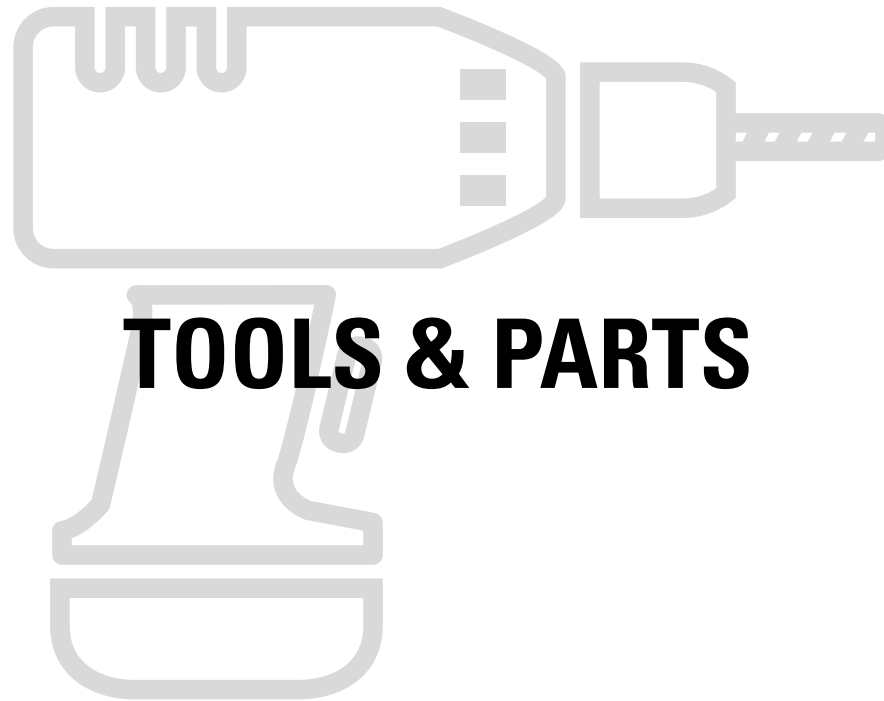


PULLTARPS®



INSTALLATION INSTRUCTIONS

X-Pando (Pre-Adjusted / Set to Size)



TOOLS & PARTS



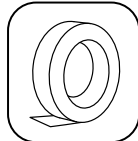
INSTALLATION INSTRUCTIONS

X-Pando (Pre-Adjusted / Set to Size)

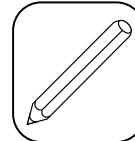
Recommended Tools



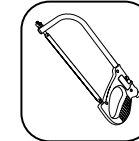
Safety Glasses and Gloves



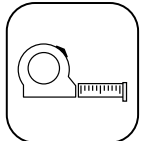
Masking Tape



Pencil or Marker



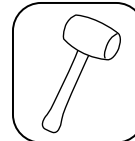
Hacksaw



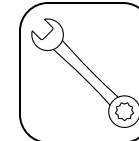
Tape Measure



Adjustable Wrench



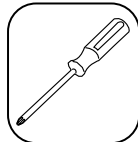
Rubber Mallet



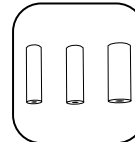
3/8" Box Wrench



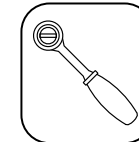
Drill



Phillips Screwdriver



3/8" & 1/2" Sockets



Socket Wrench

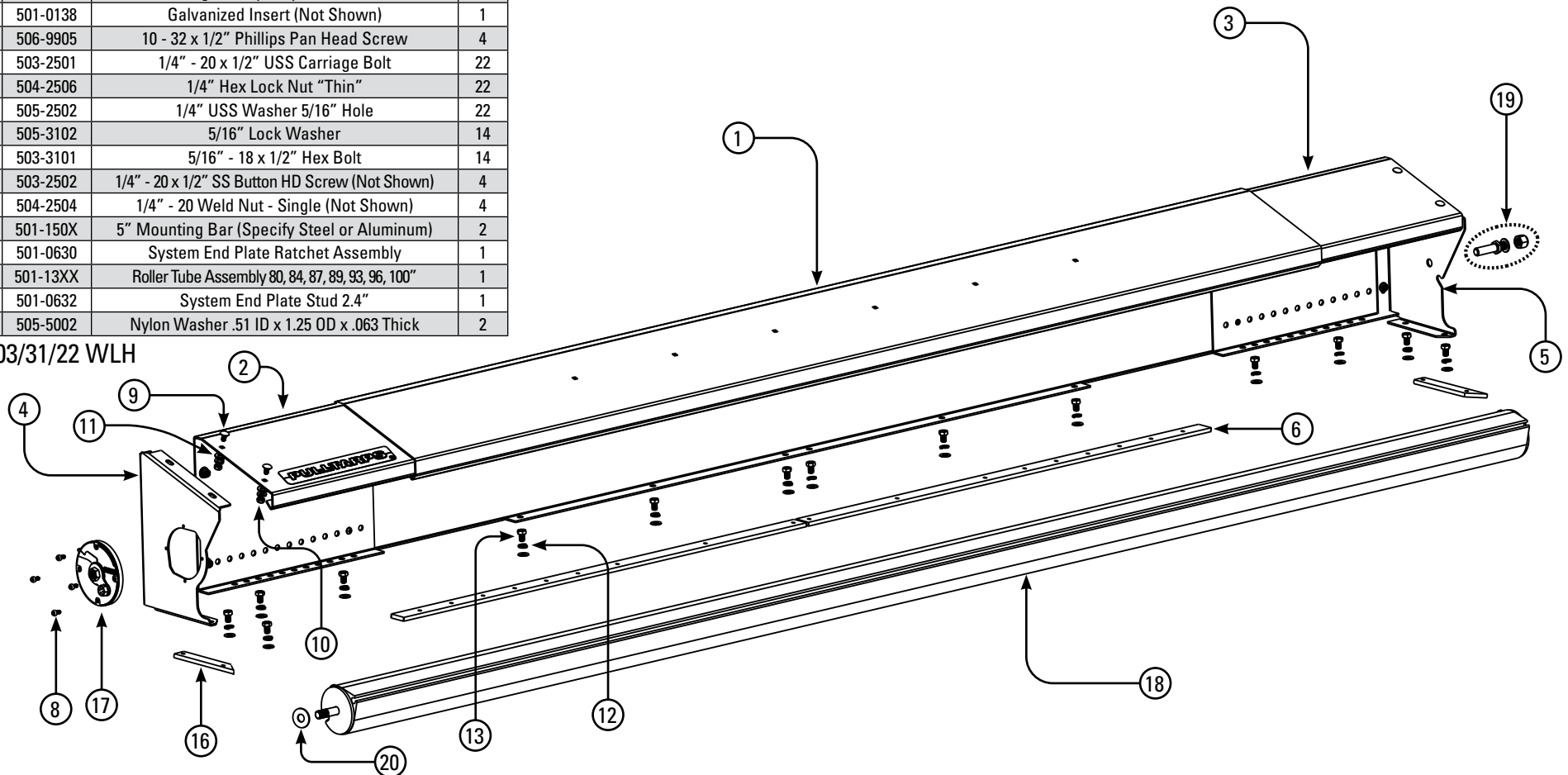


Metal File

**PULLTARPS®****INSTALLATION INSTRUCTIONS****X-Pando (Pre-Adjusted / Set to Size)****X-Pando™ (Pre-Adjusted) #116-3028, 116-3018**
(Set to Size)

ITEM	PART #	DESCRIPTION	QTY
1	501-0167	76" Telescope Steel Protector Center Hsg.	1
2	501-0168	14" Steel Protector Adj. End (Left)	1
3	501-0169	14" Steel Protector Adj. End (Right)	1
4	501-0280	Large Telescope Ratchet End Plate	1
5	501-0281	Large Telescope End Plate Pass.	1
6	501-155X	51" Mounting Bar (Specify Steel or Aluminum)	2
7	501-0138	Galvanized Insert (Not Shown)	1
8	506-9905	10 - 32 x 1/2" Phillips Pan Head Screw	4
9	503-2501	1/4" - 20 x 1/2" USS Carriage Bolt	22
10	504-2506	1/4" Hex Lock Nut "Thin"	22
11	505-2502	1/4" USS Washer 5/16" Hole	22
12	505-3102	5/16" Lock Washer	14
13	503-3101	5/16" - 18 x 1/2" Hex Bolt	14
14	503-2502	1/4" - 20 x 1/2" SS Button HD Screw (Not Shown)	4
15	504-2504	1/4" - 20 Weld Nut - Single (Not Shown)	4
16	501-150X	5" Mounting Bar (Specify Steel or Aluminum)	2
17	501-0630	System End Plate Ratchet Assembly	1
18	501-13XX	Roller Tube Assembly 80, 84, 87, 89, 93, 96, 100"	1
19	501-0632	System End Plate Stud 2.4"	1
20	505-5002	Nylon Washer .51 ID x 1.25 OD x .063 Thick	2

REV. 03/31/22 WLH



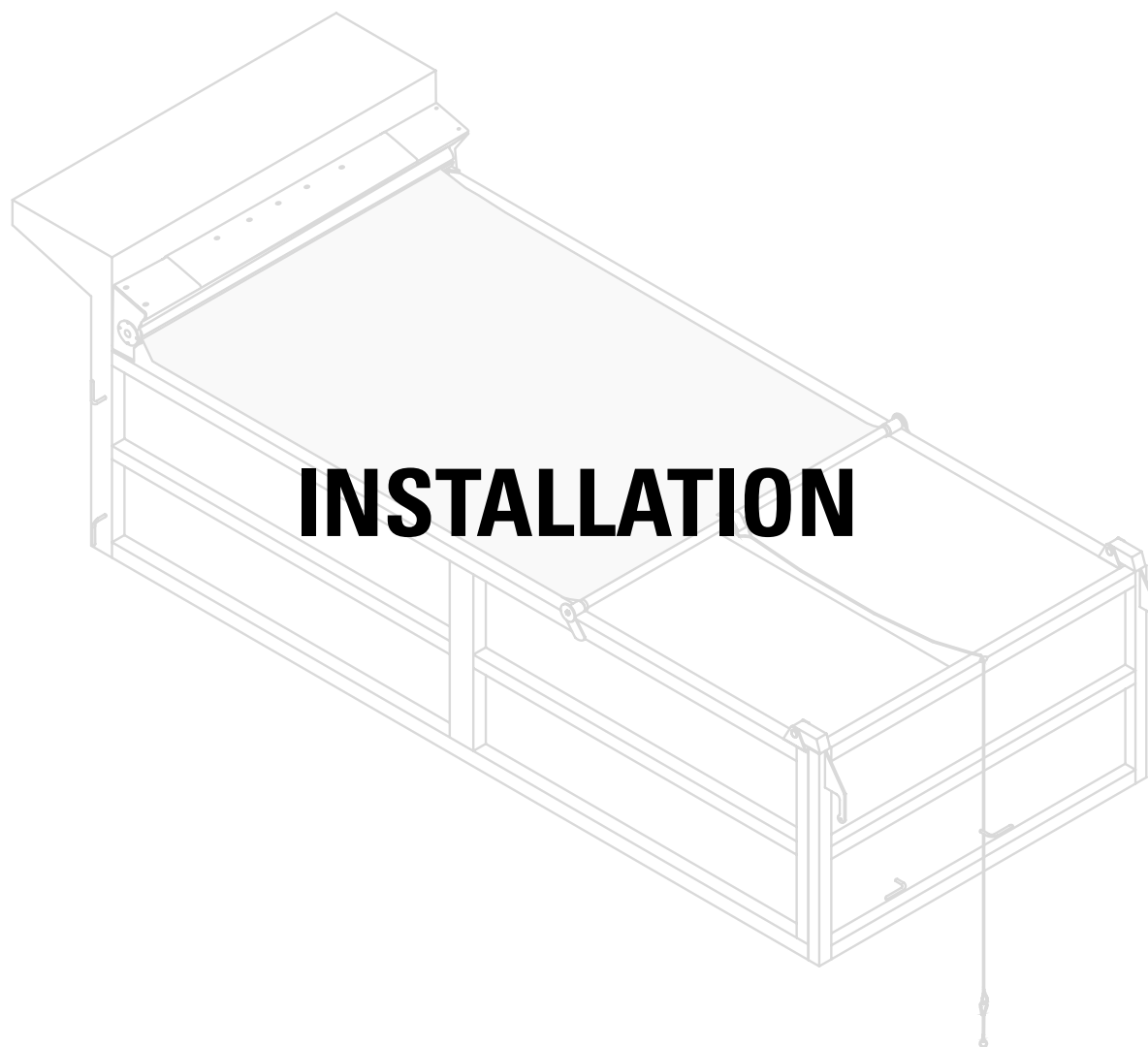


PULLTARPS®



INSTALLATION INSTRUCTIONS

X-Pando (Pre-Adjusted / Set to Size)





INSTALLATION INSTRUCTIONS

X-Pando (Pre-Adjusted / Set to Size)

Mounting Positions

Step 1: Determine the mounting position for your truck (Fig. 1-7).

Fig. 1

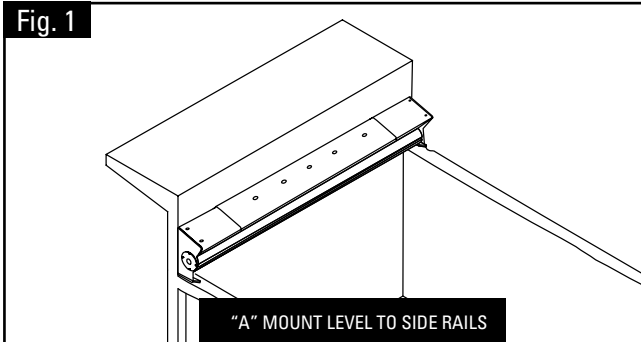


Fig. 2

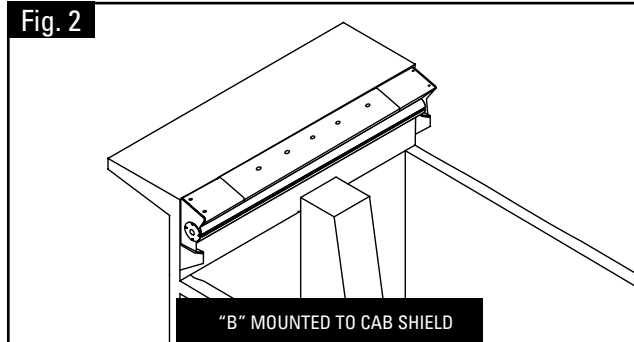


Fig. 3

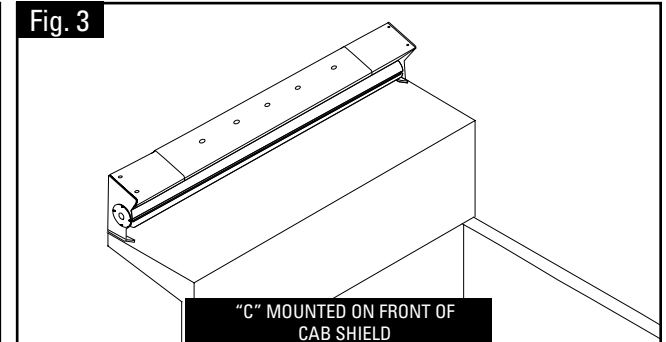


Fig. 4

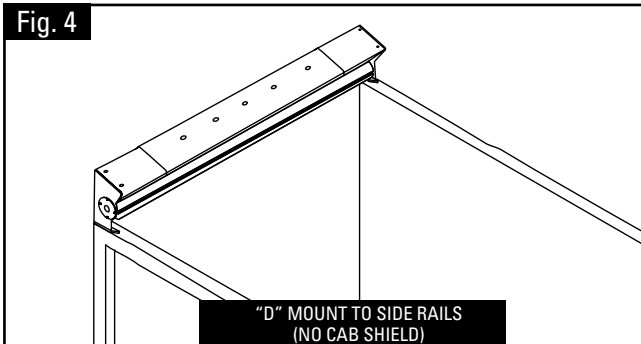


Fig. 5

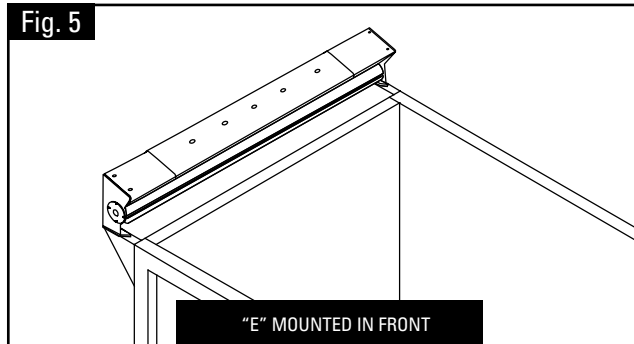


Fig. 6

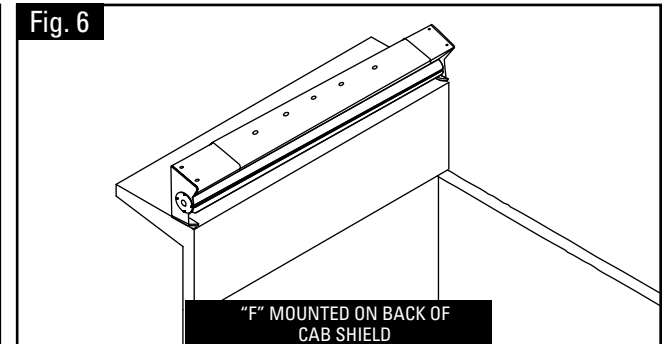


Fig. 7

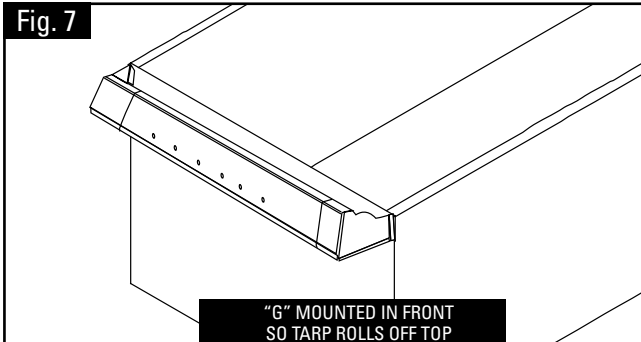
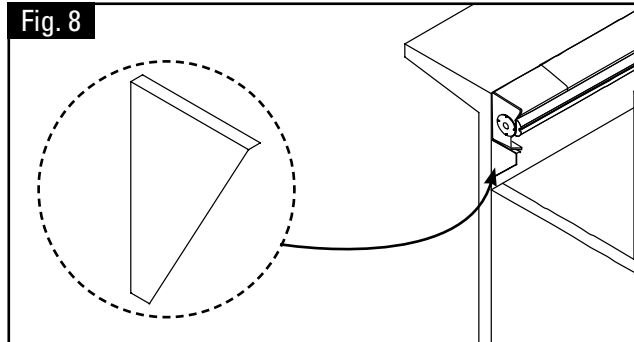


Fig. 8



"B" BRACKETS

NOTE: Use optional "B" brackets when mounting in position "B" and "E" (Fig. 8).



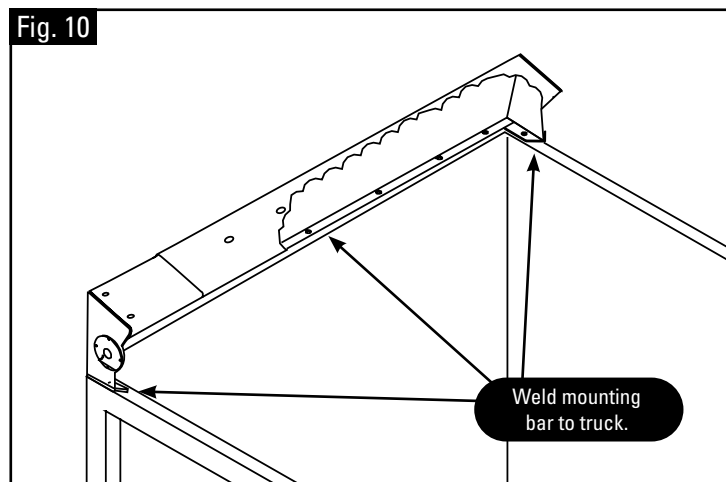
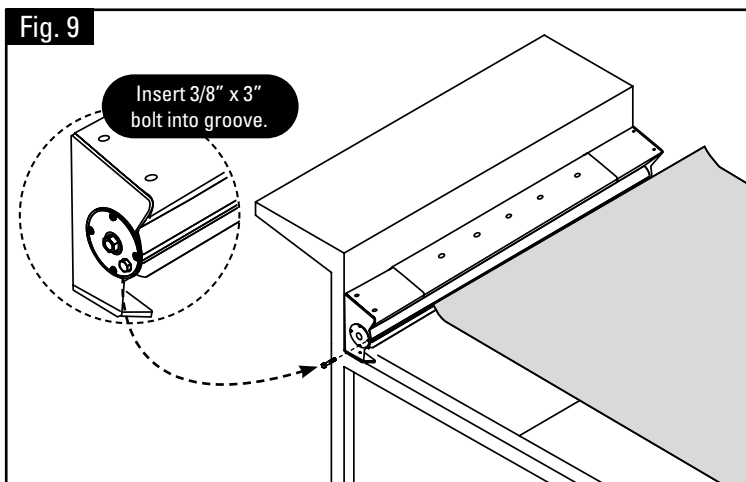
INSTALLATION INSTRUCTIONS

X-Pando (Pre-Adjusted / Set to Size)

Mounting the System

Step 2: Remove Tarp before Welding.

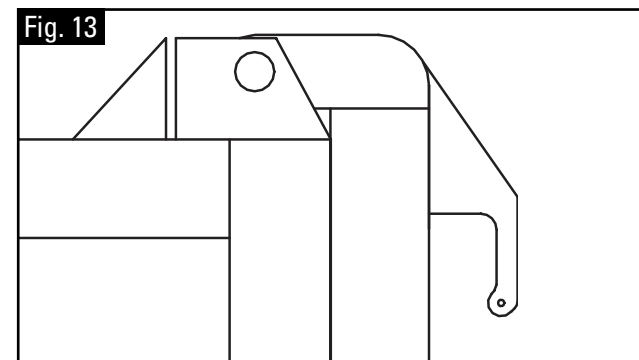
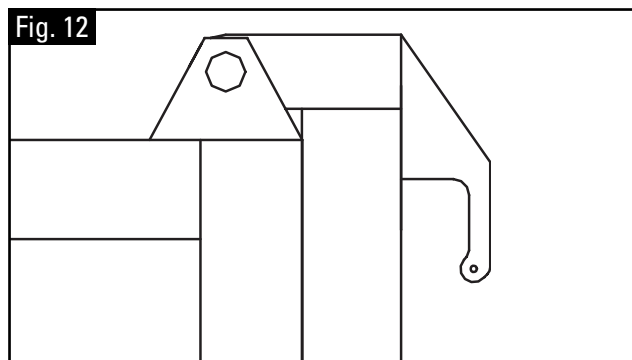
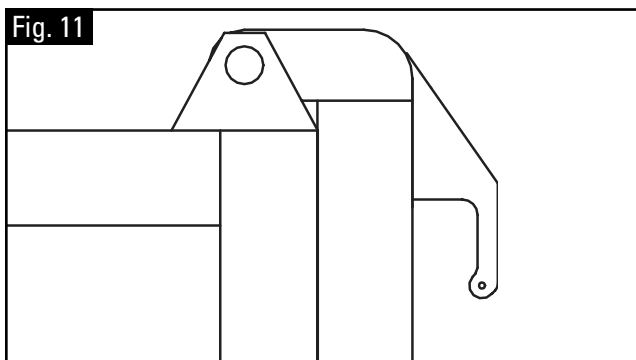
To remove tarp, pull the tarp all the way out over the tailgate. Insert 3/8" x 3" bolt into groove on roller tube making sure the bolt head rests against front edge of end plate. This will lock spring tension in roller tube. Slide tarp out of roller tube and away from work area. **Note:** Before welding remove tarp to avoid damage (Fig. 9).



Step 3: Weld System to Truck
Weld system mounting bar to truck (Fig. 10).

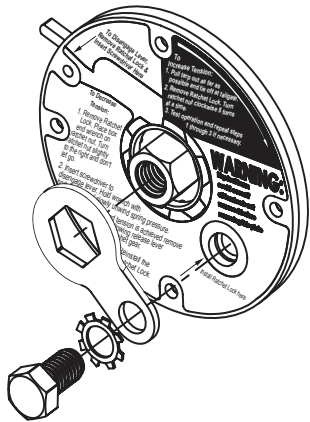
Step 4: Weld on Tarp Return Ramps

The Tarp Return Ramps hold the pullrod in place once the tarp has been deployed. The ramps should be welded as high as possible (Fig.11 & Fig.12 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 - Fig.13).



**INSTALLATION INSTRUCTIONS****X-Pando (Pre-Adjusted / Set to Size)****Reinstalling Tarp, Rope Hook Installation & Adjusting Spring Tension****Step 5: Reinstall Tarp**

Before you reinstall your tarp on the roller, make sure the roller has not lost its spring tension (Fig. 14 & 15). If the roller is still locked with the locking bolt, the tension should have been maintained. 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. 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. Secure tarp and pullrod to tailgate with the pullrope. Hold the roller with one hand and remove the locking bolt with the other. Release pullrope from tailgate and cycle the tarp 2 or 3 times. This will ensure the tarp rolling up straight. 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. If you have side flaps or tie downs proceed to pages 9 & 10.

Fig. 14**IF ROLLER HAS LOST SPRING TENSION**

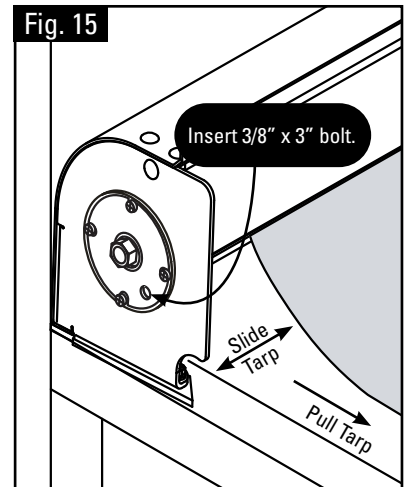
The roller comes pre-loaded from the factory. Should the roller lose tension for any reason during installation, you must pre-load the spring mechanism again before installing the tarp.

To Increase Tension

1. Pull Tarp out as far as possible and tie off at tailgate.
2. Remove Ratchet Lock. Turn ratchet nut clockwise 5 turns at a time.
3. Test operation and repeat steps 1 through 3 if necessary.
4. Reinstall the Ratchet Lock

To Decrease Tension

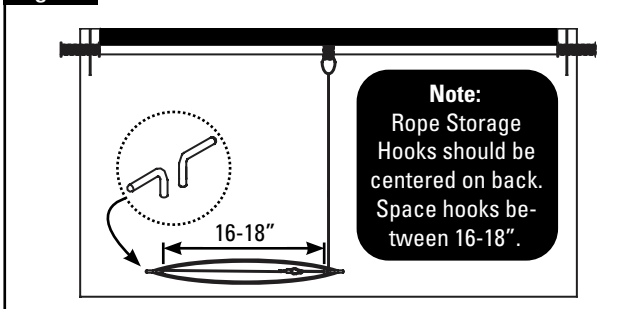
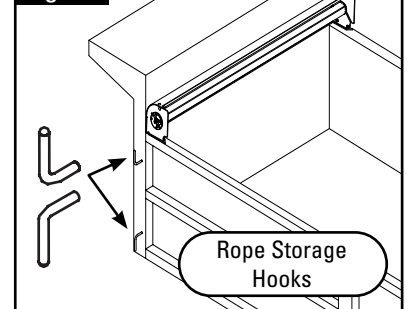
1. Remove Ratchet Lock. Place box and wrench on ratchet nut. Turn ratchet nut slightly to the right and don't let go
2. Insert screwdriver to disengage lever. Hold wrench with both hands slowly unwind spring pressure.
3. When desired tension is achieved remove screw driver allowing release lever to reengage ratchet gear.

Fig. 15**Step 6: Rope Storage Hook Installation**

Mount the rope as low as possible. The rope should come straight down and wrap around the center hook and then coil off to the side (Fig. 16). When tarp is not in use, space the hooks far enough apart to store the full length of rope (Fig. 17).

Note: Tarp must be retracted when dumping.

NOTICE: For full Ratchet Operation and Replacement instructions, see document 607-0035 online in our Resources section.

Fig. 16**Fig. 17**



PULLTARPS®



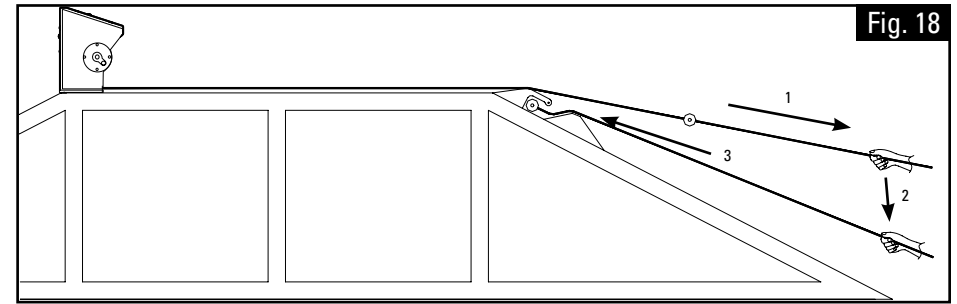
INSTALLATION INSTRUCTIONS

X-Pando (Pre-Adjusted / Set to Size)

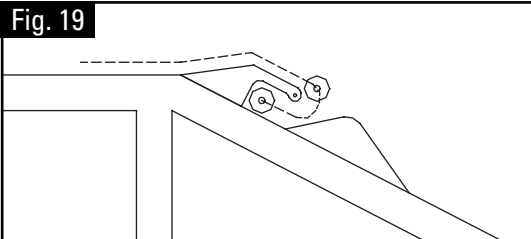
Tarp Return Ramps for Belly Dumps (Optional)

Step 1: All belly dumps require special tarp return ramps. If you are not sure which type to use, call us at Pulltarps (800) 368-3075 for technical support.

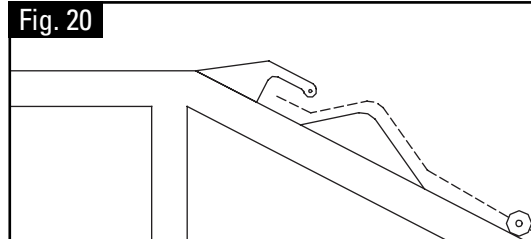
On longer single units, you are too far from the return ramp to unlatch the Pullrod by hand so we developed the easy to operate **Jump Ramp** (Fig. 18). Pull the tarp out all the way. Lower your arm. Release some rope slowly and allow the Pullrod to slide forward and drop down into the Tarp Return Ramp.



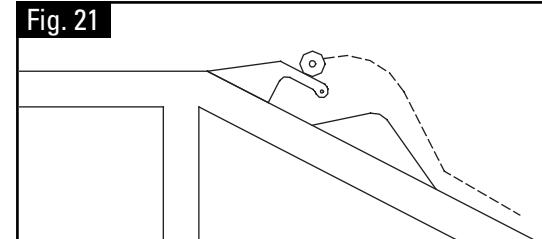
Step 2: Pull out and hook (Fig. 19).



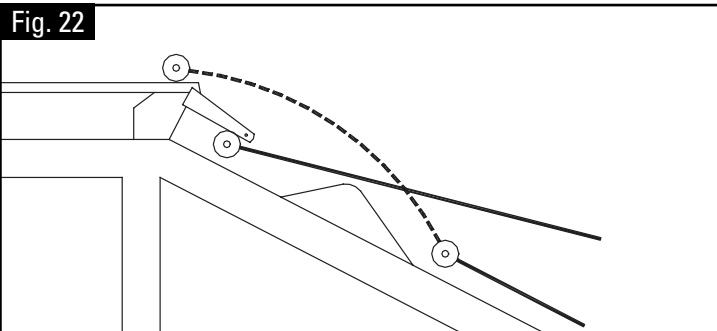
Step 3: To retract, pull the pullrod up over the jump-ramp gusset and down a few inches (Fig. 20).



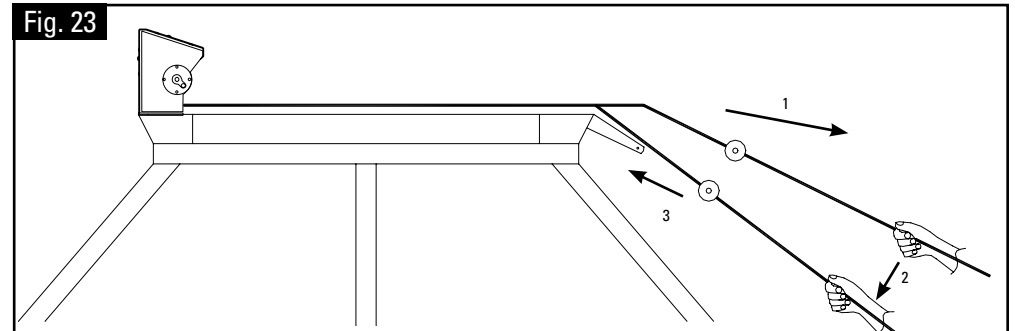
Step 4: Release a few feet of rope quickly and the spring in the roller will cause the Pullrod and tarp to jump over the return ramp and retract back to the system (Fig. 21).

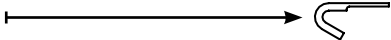


Option A: On long belly dumps with short vertical sideboards, use the finger tarp return ramps. Weld the provided gussets to the box to create a Pullrod jump ramp (Fig. 22).



Option B: On short belly dumps, pull the tarp all the way out. Raise and lower to hook and unhook the Pullrod over the finger tarp return ramps (Fig. 23).



**INSTALLATION INSTRUCTIONS****X-Pando (Pre-Adjusted / Set to Size)****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!

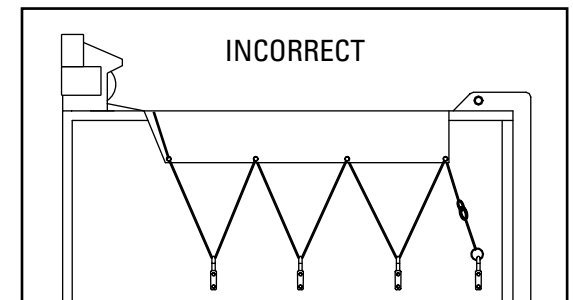
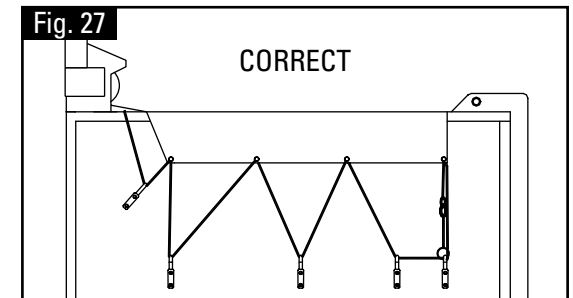
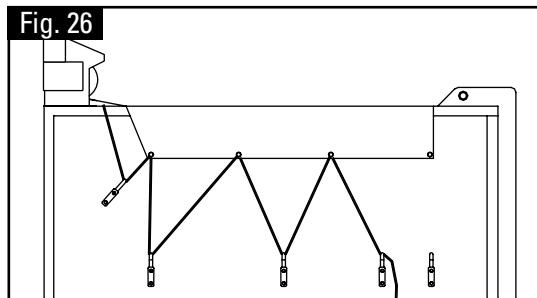
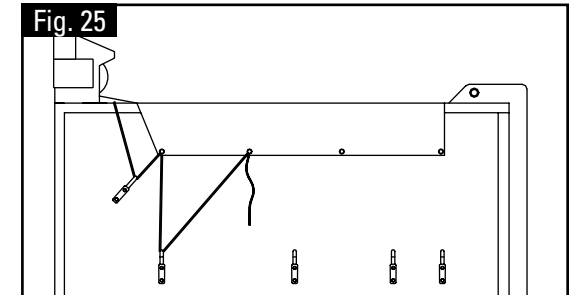
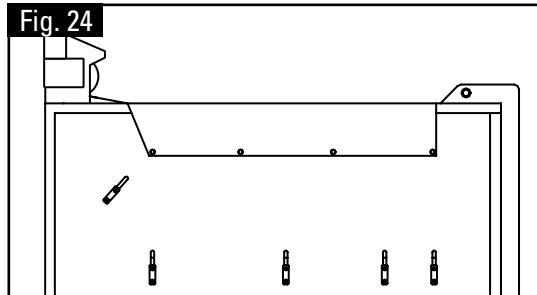
Step 1: Flip the braided rope over the corner so that the flaps and tie down ropes hang over each side of the box. The number of tie down hooks vary depending on the length of your tarp. One pull down hook is included with your Pulltarp system. If needed. Use the hook to pull the braided rope and flaps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

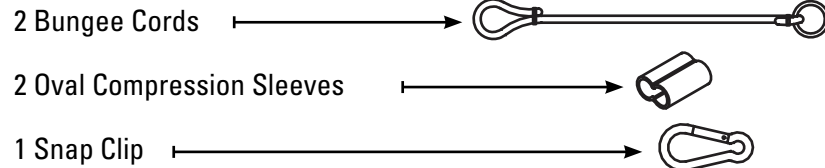
The tie down hooks must be positioned so that:

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 in **Bungee Cord Installation** section).
3. The rope has no slack.
4. The tie down hooks are level with one another.

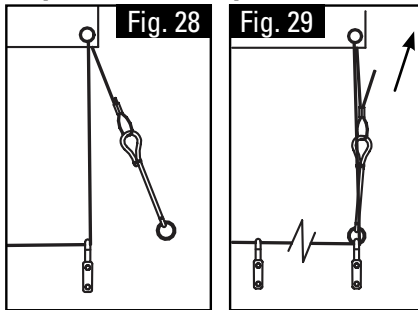
To ensure proper hook placement, first duct tape the rope to the box in place of the tie down hooks. Start with hook closest to the cab.

1. Position the first hook 6" (15.24cm) down and 12" (30.48cm) forward (toward the cab) from the first grommet (Fig. 24).
2. Position 2nd hook straight down from 1st grommet. This hook should be reached from ground (Fig. 25).
3. Place middle hooks equal distances from grommet (Fig. 26). 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. 27).
5. Weld hooks in place.



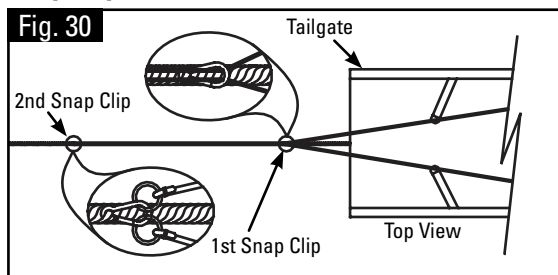
**INSTALLATION INSTRUCTIONS****X-Pando (Pre-Adjusted / Set to Size)****Bungee Cord Installation****Parts:**

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

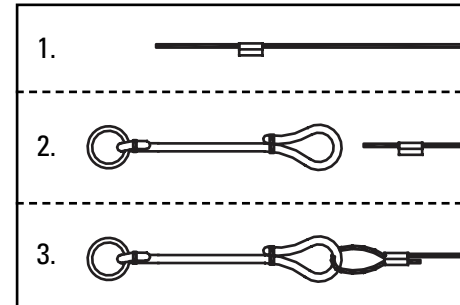
To tighten, pull loose end of rope through the Oval Compression Sleeve (Fig. 28). Stretch the bungee cord making sure all slack is taken out of the rope, crimp compression sleeve (Fig. 29). Be sure to keep flaps even on sides so Tie Down Ropes remain equal in length.

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

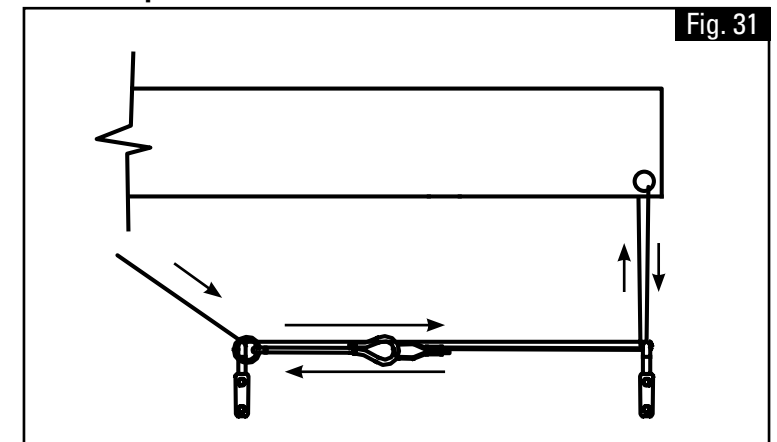
Snap Clip Installation

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

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. 30).

**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. 31).



INSTALLATION INSTRUCTIONS

X-Pando (Pre-Adjusted / Set to Size)

Flap, Rope and Rope Hook Placement

Step 3 - Flap / Tie Down Rope Placement and Installation (Fig. 32).

Fig. 32

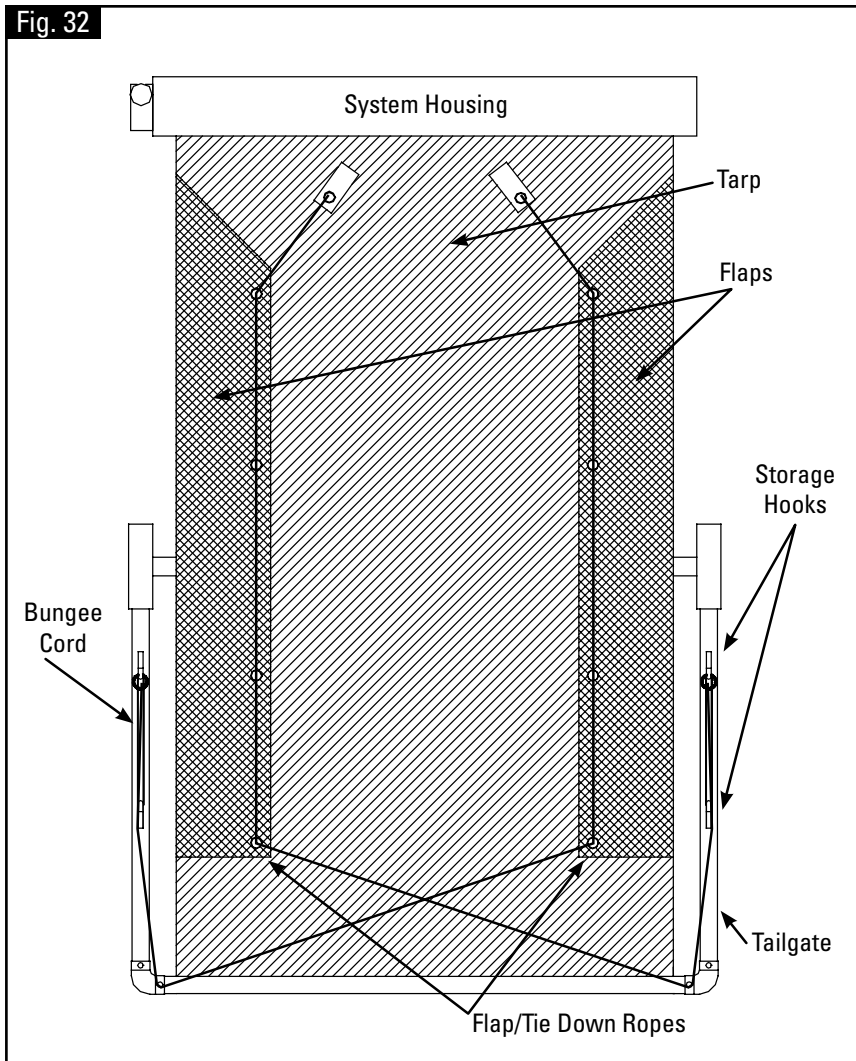
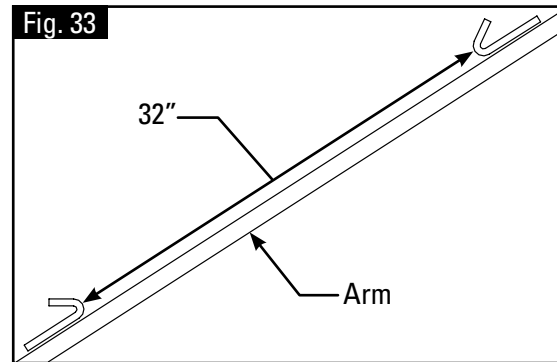
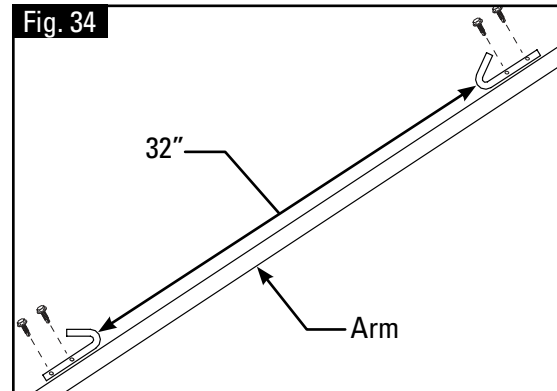


Fig. 33



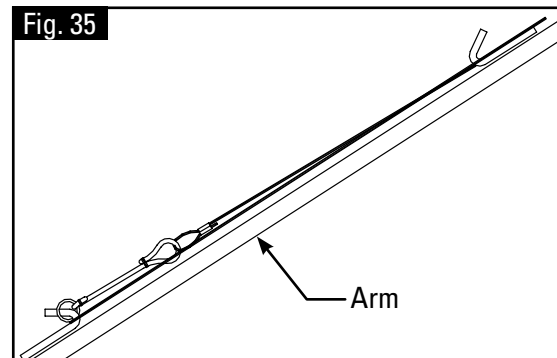
Step 4 - Rope Hook Placement: Weld rope storage hook on the top of the arms approx. 32" apart (Fig. 33).

Fig. 34



Step 5 - Rope Hook Placement For Aluminum Arms: Use Self Drilling screws (part #506-9933) to install hooks (Fig. 34).

Fig. 35



Step 6 - Rope storage on Arms: (Fig. 35).