



INSTALLATION INSTRUCTIONS

X-Pando™ Adjustable Automatic Systems for Arm Sets up to 30'

218-0215, 218-3017 & 218-3018

Related Instructions,
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[PDF: Arm Catcher](#)



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



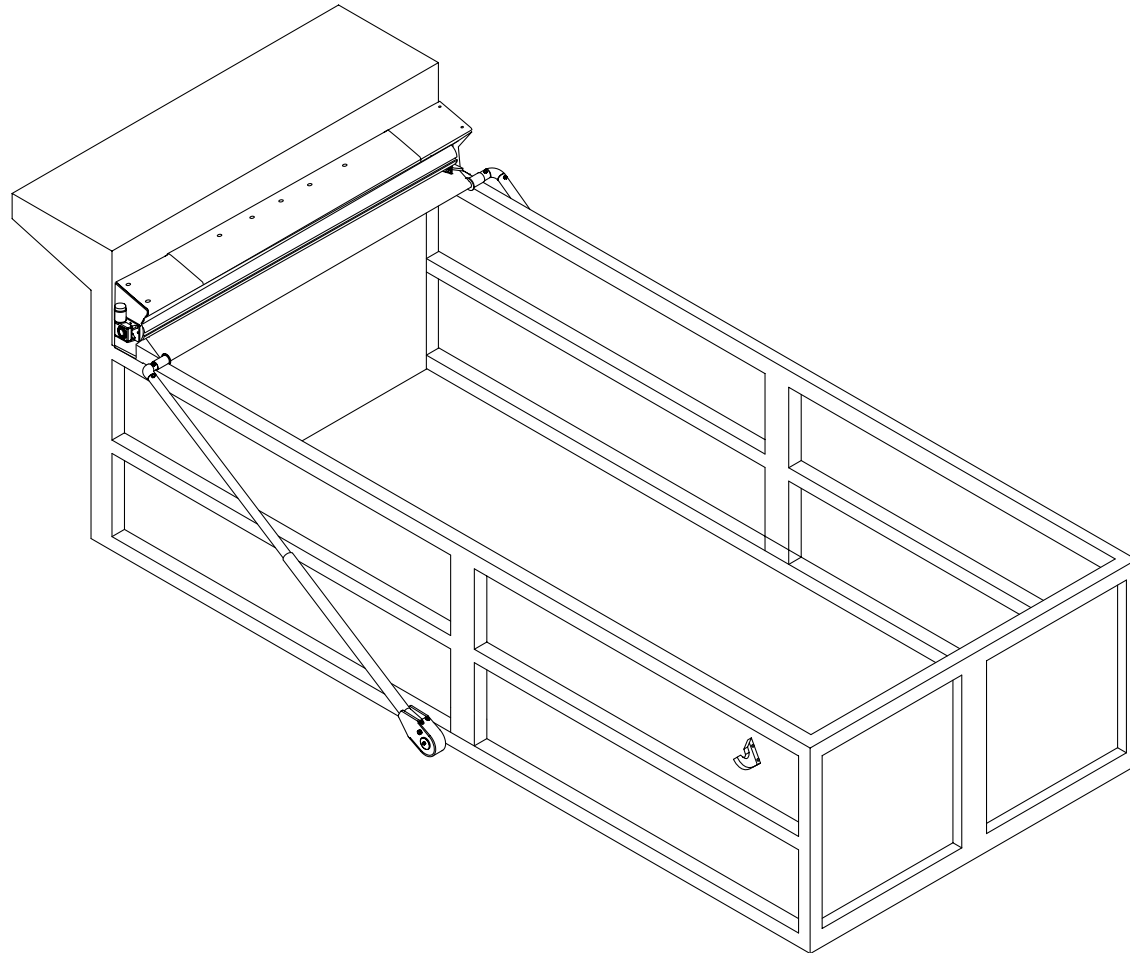
[PDF: Smart Switch Basic Kit](#)



[PDF: High Amp Switch Kit](#)



[PDF: Flap Tarps Installation](#)



Document #: 607-0114
Revised: 05/19/22 WLH

DURING INSTALLATION, SOME FABRICATION MAY BE REQUIRED.



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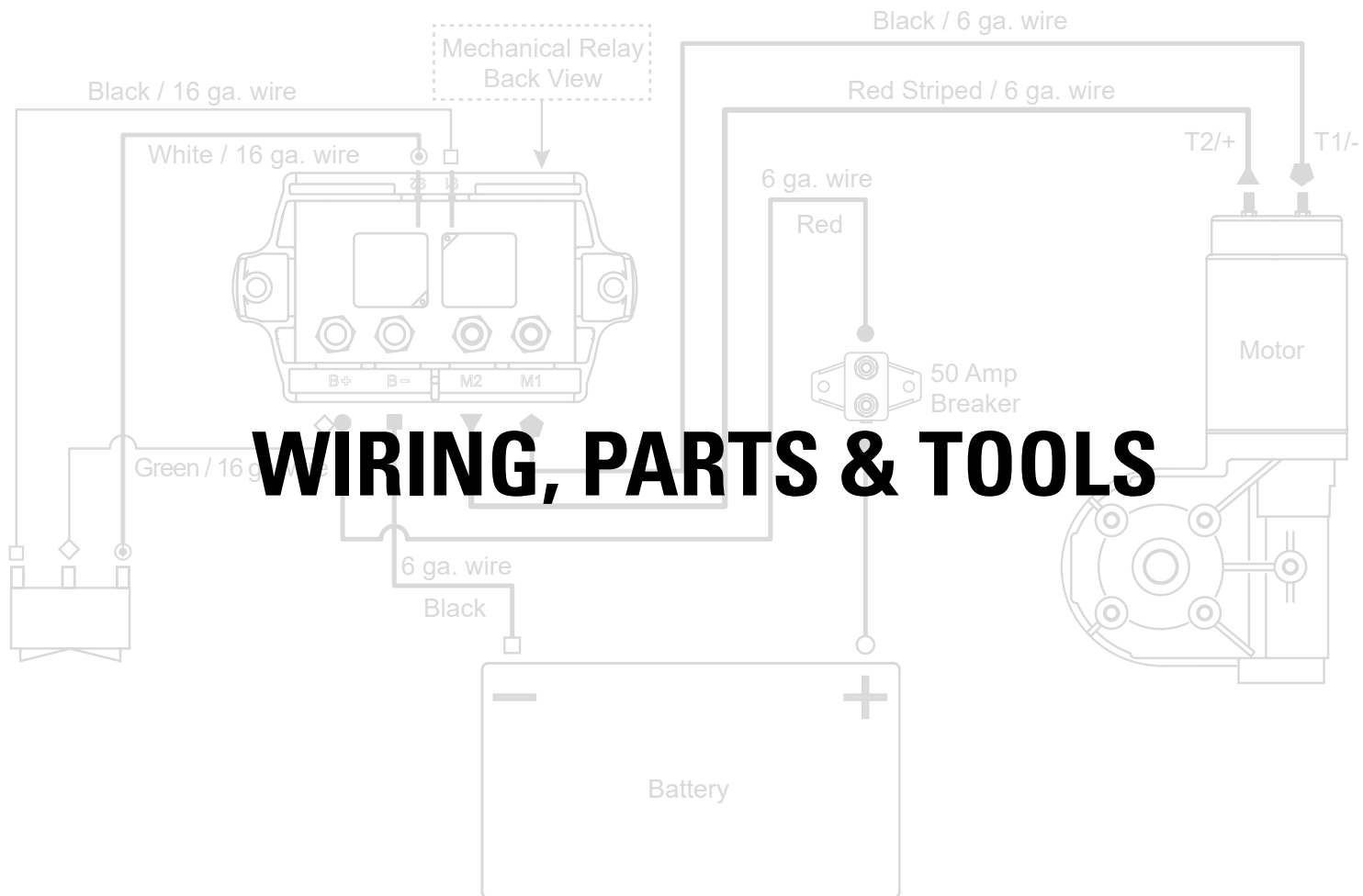


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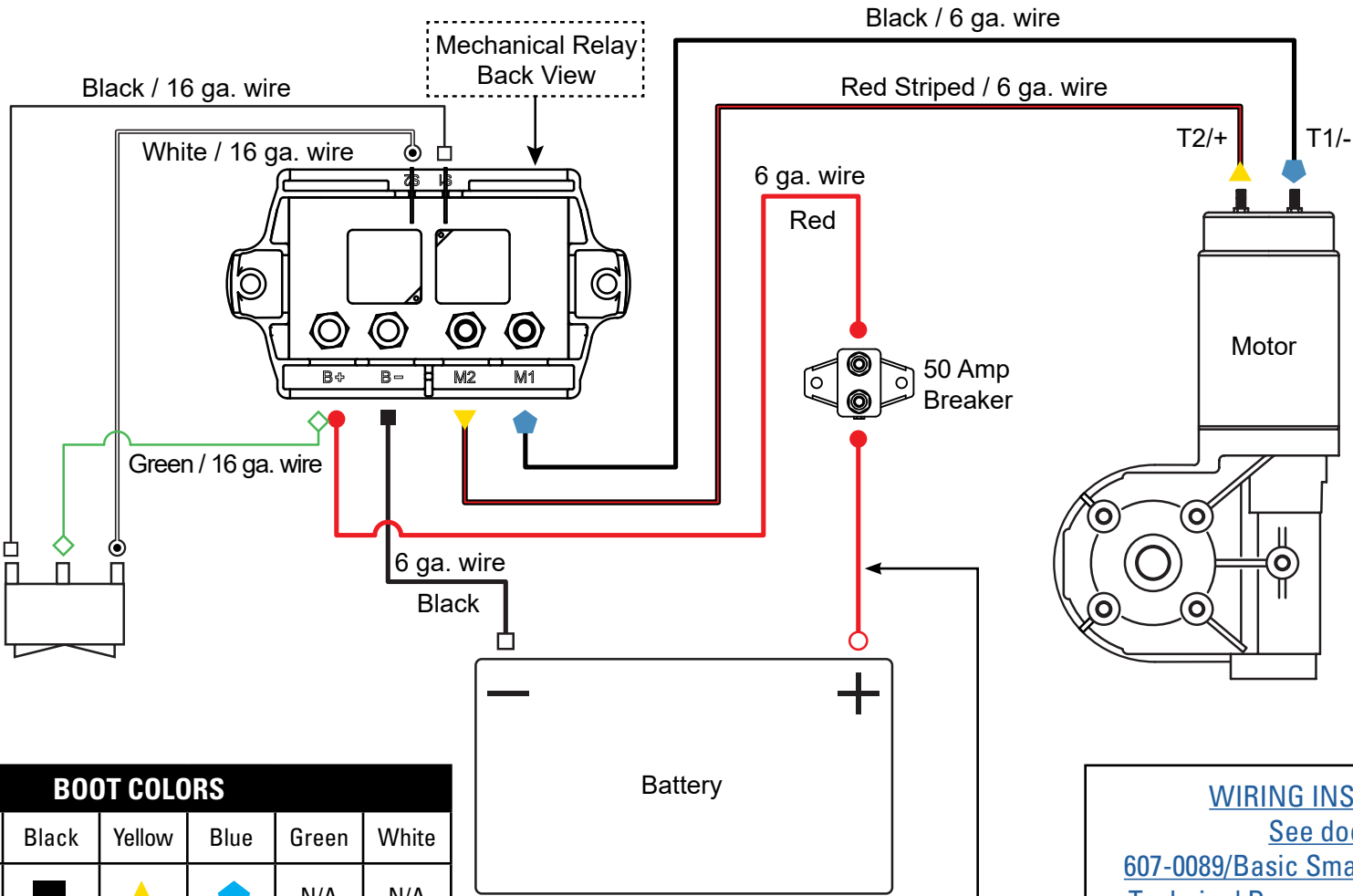




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X-Pando™ Adjustable Automatic Systems for Arm Sets up to 30'

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



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/Basic Smart Switch-12 Volt in Technical Documents at Pulltarps.com](#)

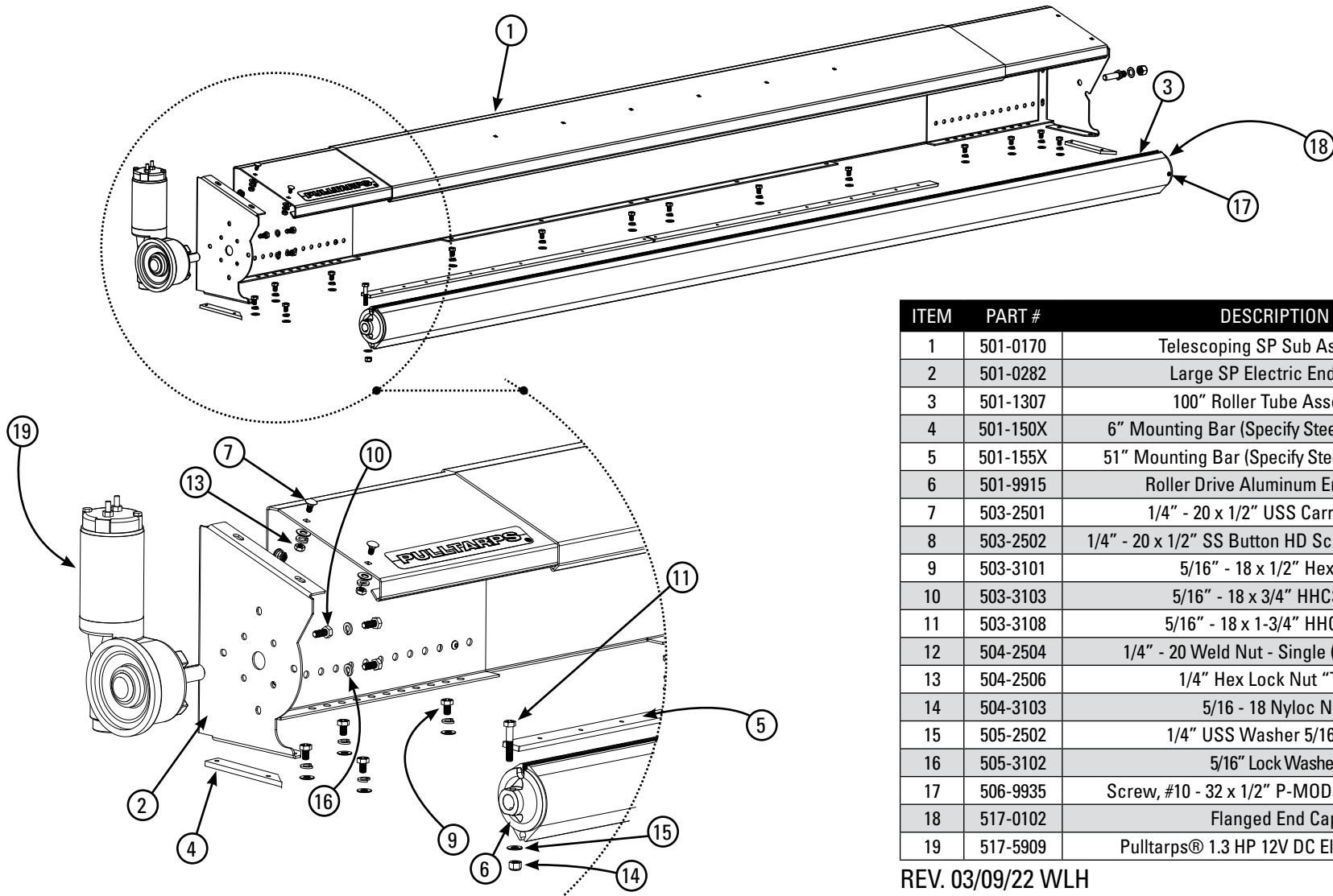
Note: 12" Max distance between Battery and Breaker.



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X-Pando™ Adjustable Automatic Systems for Arm Sets up to 30'

X-Pando (Adjustable) #218-0215



ITEM	PART #	DESCRIPTION	QTY
1	501-0170	Telescoping SP Sub Assembly	1
2	501-0282	Large SP Electric End Plate	1
3	501-1307	100" Roller Tube Assembly	1
4	501-150X	6" Mounting Bar (Specify Steel or Aluminum)	2
5	501-155X	51" Mounting Bar (Specify Steel or Aluminum)	2
6	501-9915	Roller Drive Aluminum End cap 3"	1
7	503-2501	1/4" - 20 x 1/2" USS Carriage Bolt	5
8	503-2502	1/4" - 20 x 1/2" SS Button HD Screw (Not Shown)	4
9	503-3101	5/16" - 18 x 1/2" Hex Bolt	14
10	503-3103	5/16" - 18 x 3/4" HHCS Bolt	3
11	503-3108	5/16" - 18 x 1-3/4" HHCS Bolt	1
12	504-2504	1/4" - 20 Weld Nut - Single (Not Shown)	4
13	504-2506	1/4" Hex Lock Nut "Thin"	5
14	504-3103	5/16 - 18 Nyloc Nut	1
15	505-2502	1/4" USS Washer 5/16" Hole	6
16	505-3102	5/16" Lock Washer	17
17	506-9935	Screw, #10 - 32 x 1/2" P-MOD Truss Self Drl.	1
18	517-0102	Flanged End Cap	1
19	517-5909	Pulltarps® 1.3 HP 12V DC Electric Motor	1

REV. 03/09/22 WLH



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X-Pando™ Adjustable Automatic Systems for Arm Sets up to 30'

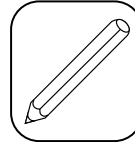
Recommended Tools



Safety Glasses and Gloves



Tape Measure



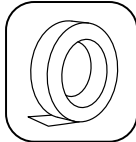
Pencil or Marker



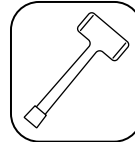
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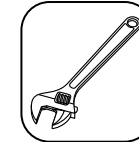
Hacksaw



Masking Tape



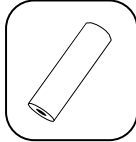
Mallet or Deadblow Hammer



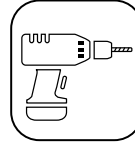
Adjustable Wrench



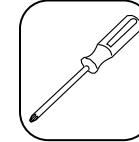
Socket Wrench



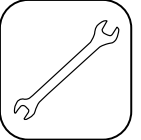
1/2" Socket



Impact Drill



Philips Screwdriver



1/2" Open/Close Wrench



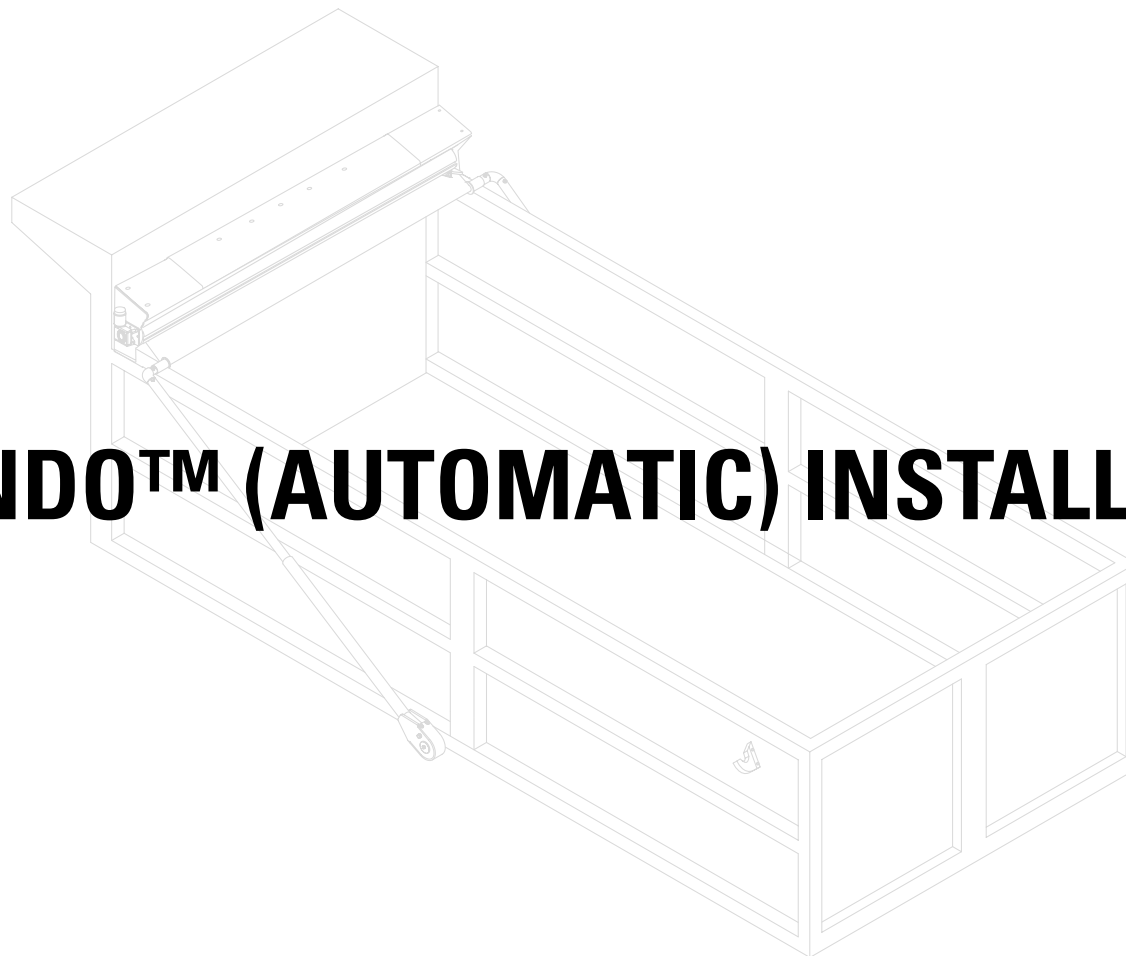
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INSTALLATION INSTRUCTIONS

X-Pando™ Adjustable Automatic Systems for Arm Sets up to 30'

X-PANDO™ (AUTOMATIC) INSTALLATION



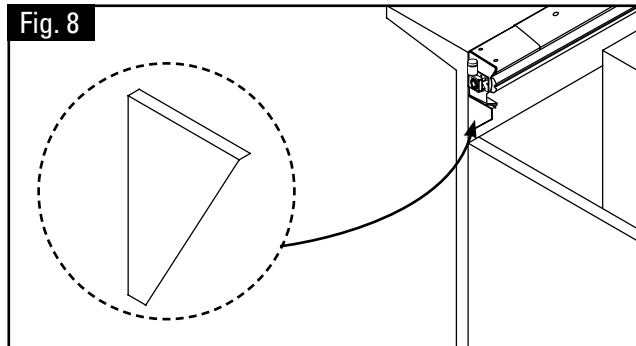
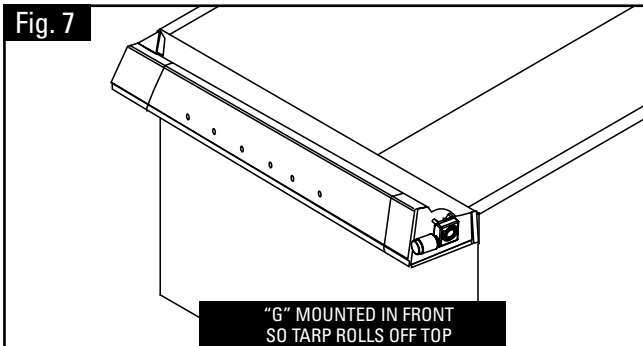
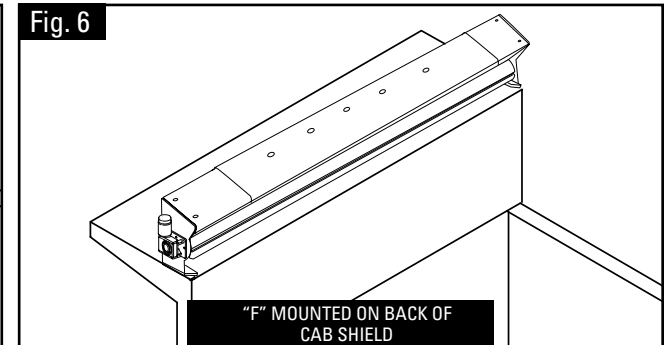
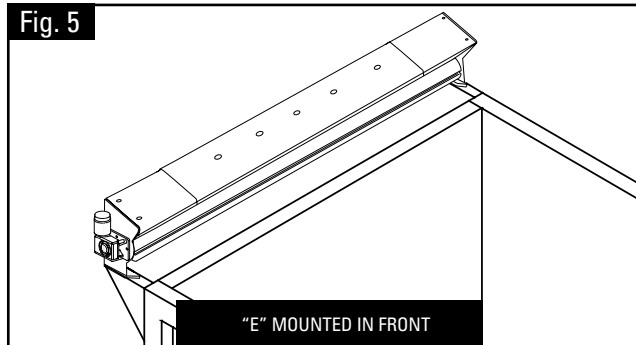
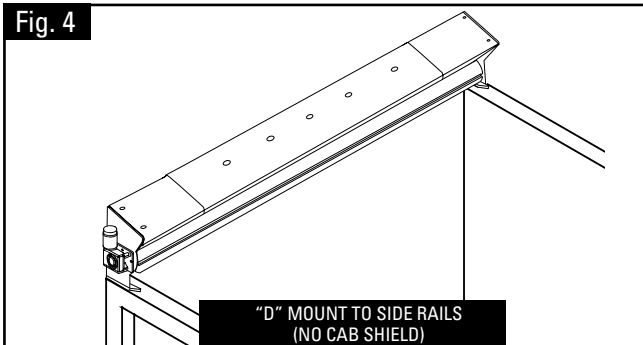
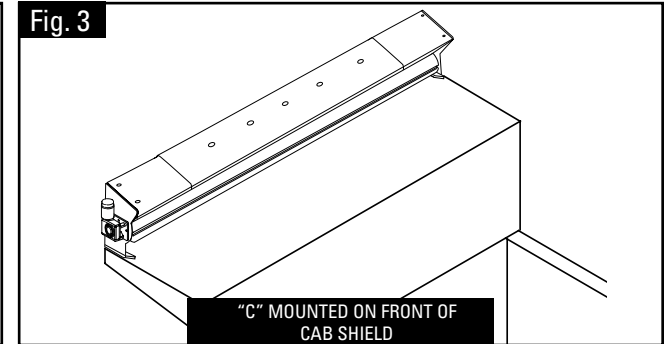
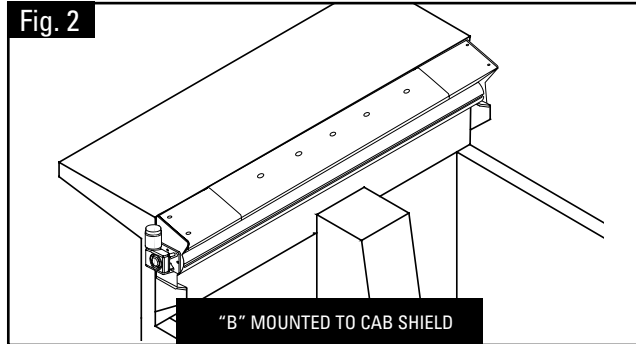
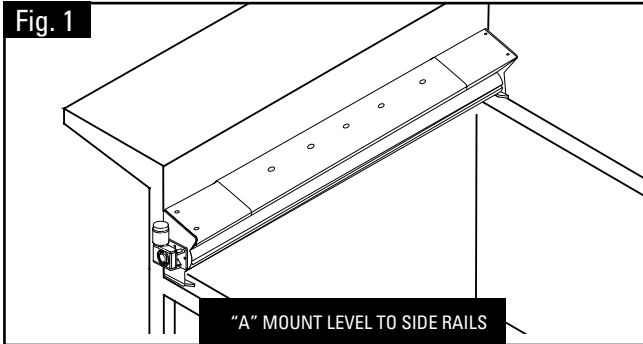


INSTALLATION INSTRUCTIONS

X-Pando™ Adjustable Automatic Systems for Arm Sets up to 30'

Mounting Positions

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



"B" BRACKETS

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



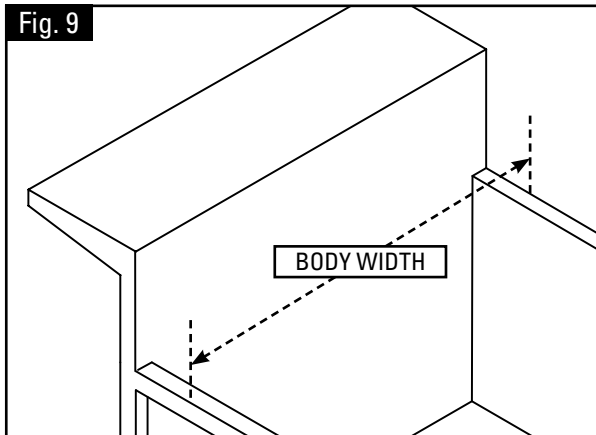
INSTALLATION INSTRUCTIONS

X-Pando™ Adjustable Automatic Systems for Arm Sets up to 30'

Adjusting Housing Width

Step 2: Determine the body width at the mounting location (Fig. 9).

Fig. 9



Step 4: Place each Weld Nuts behind the mounting hole to secure each screw into housing (Fig. 11A & B).

Fig. 11A

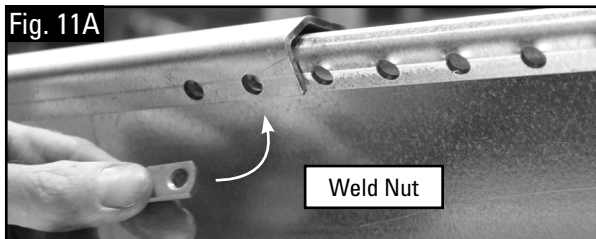


Fig. 11B



Step 3: On a flat surface or stable platform, adjust housing width to match the mounting location width and align bolt holes (Fig. 10A & B).

Fig. 10A

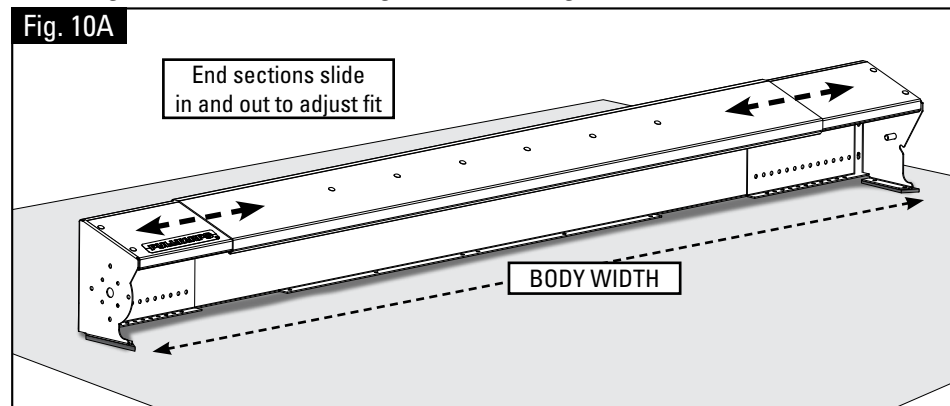
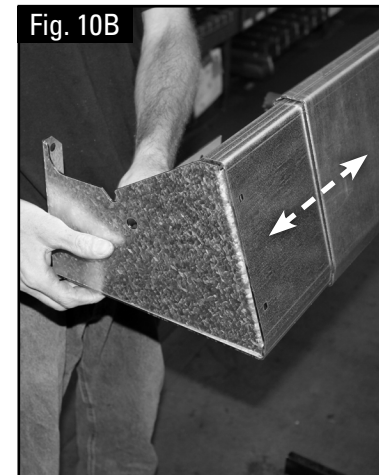


Fig. 10B



Step 5: Secure each side of the housing with the two (2) button screws and two (2) weld nuts (Fig. 12A, B, C & D).

Fig. 12A

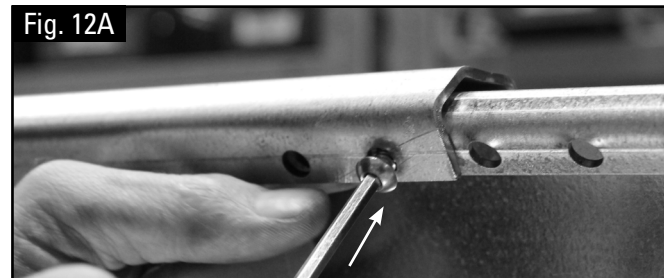


Fig. 12B

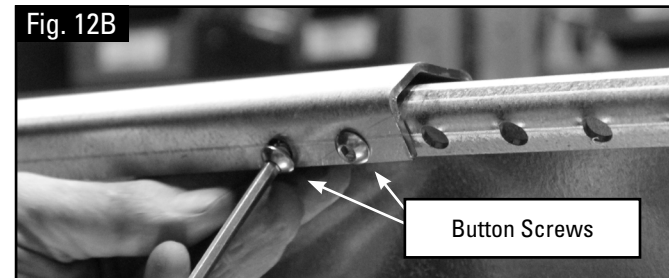
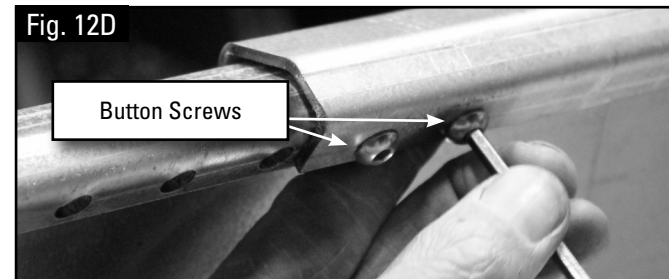


Fig. 12C



Fig. 12D





INSTALLATION INSTRUCTIONS

X-Pando™ Adjustable Automatic Systems for Arm Sets up to 30'

Adjusting Housing Width

Step 6: Move mounting bar into position under housing and secure using the provided hardware (Fig. 13).

Fig. 13

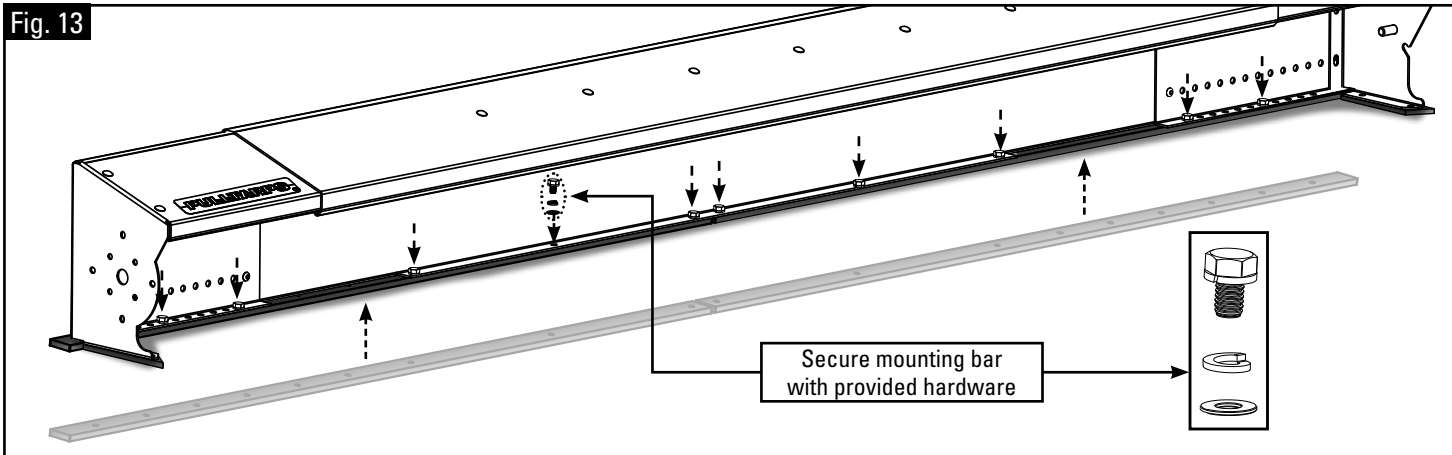
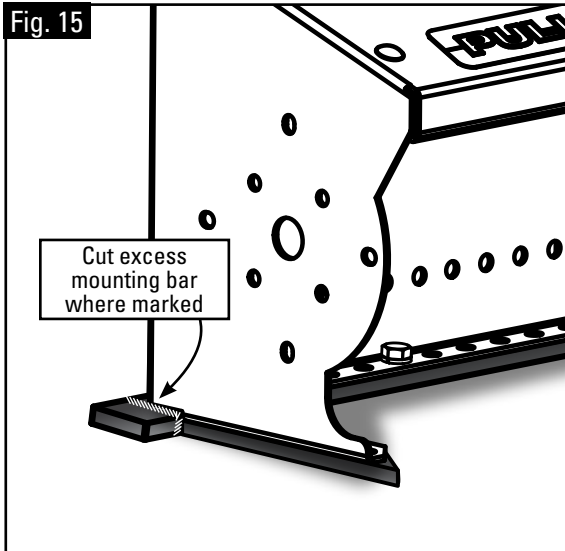


Fig. 14



Step 7: Mark mounting bar on each side, flush with housing end plates to remove excess material (Fig. 14).

Fig. 15



Step 8: Using a hacksaw or other cutting tool and remove the excess mounting bar material, making sure it's flush with the housing (Fig. 15). Repeat on other side.

Fig. 16A

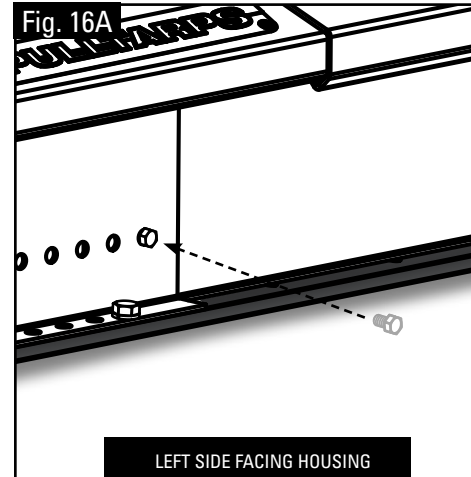
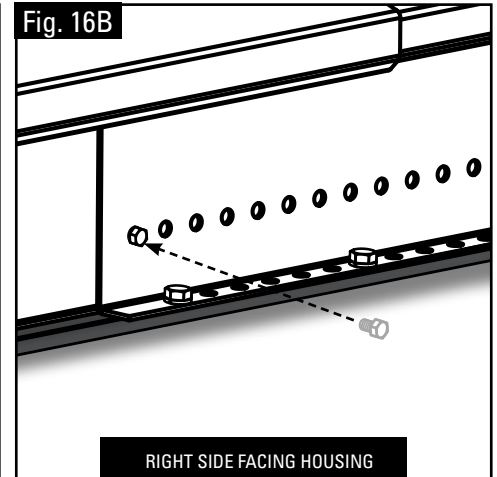


Fig. 16B



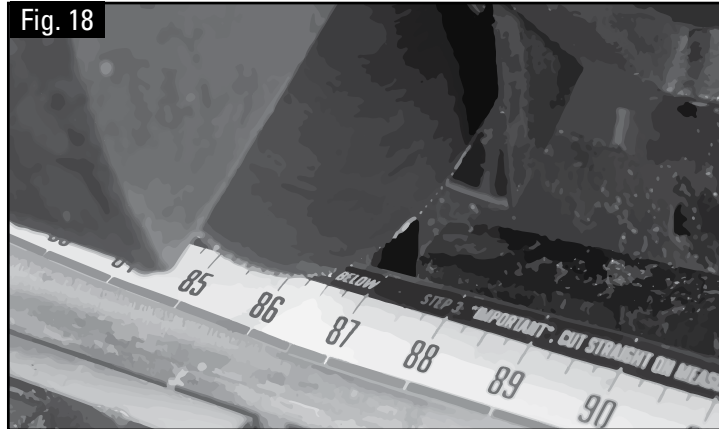
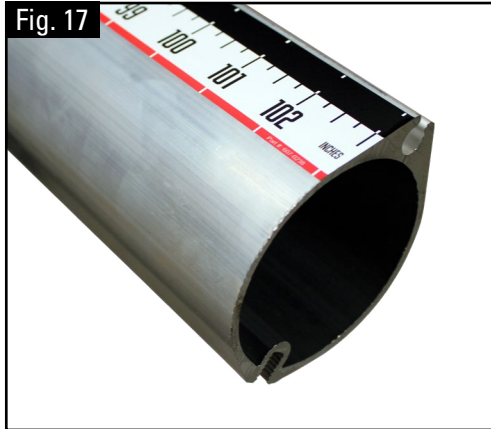
Optional: For added strength, you can add a single bolt and nylock nut to the back of the slide in section on each side and secure to center section (Fig. 16A & B).



INSTALLATION INSTRUCTIONS

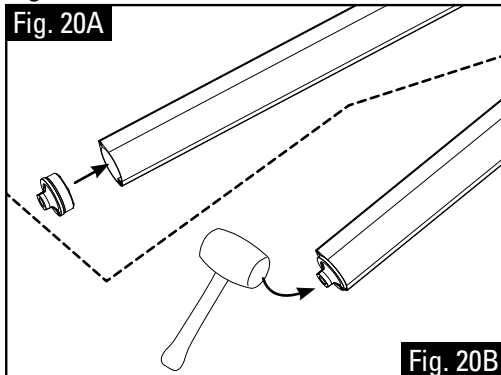
X-Pando™ Adjustable Automatic Systems for Arm Sets up to 30'

Roller Tube EZ-Measure & End Cap Installation

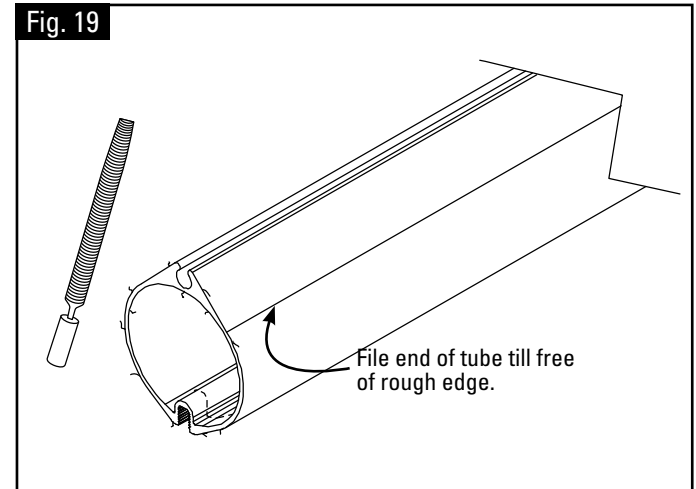
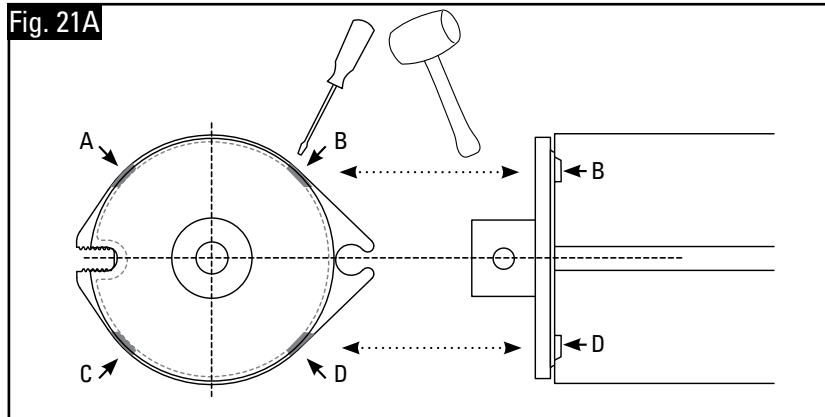


Step 9: Locate the “EZ-Measure” measurement tape on the Roller Tube (Fig. 17) and cut the tube to the desired length (Fig. 18). **Note:** Please cut the end as straight as possible.

Step 11: Insert end cap into roller tube. Use a rubber mallet to tap the edges of the end cap lightly to ensure that it has been seated properly (Fig. 20A & B).

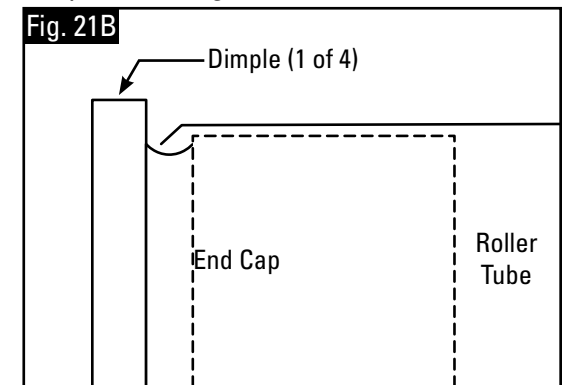


Step 12: To secure the end cap in the roller tube, make four (4) indentations or dimples to hold the end cap in place. Use a mallet and flathead screwdriver to make the dimples (Fig. 21A & B).



Step 10: After cutting off the desired section (Fig. 19), file the edges to smooth out end of tube and provide a better fit for the end cap.

Dimple detail (Fig. 21B).





INSTALLATION INSTRUCTIONS

X-Pando™ Adjustable Automatic Systems for Arm Sets up to 30'

Installing the RollerTube & Electric Motor

Step 13: See the diagram for roller tube insertion into housing (Fig. 22).

Fig. 22

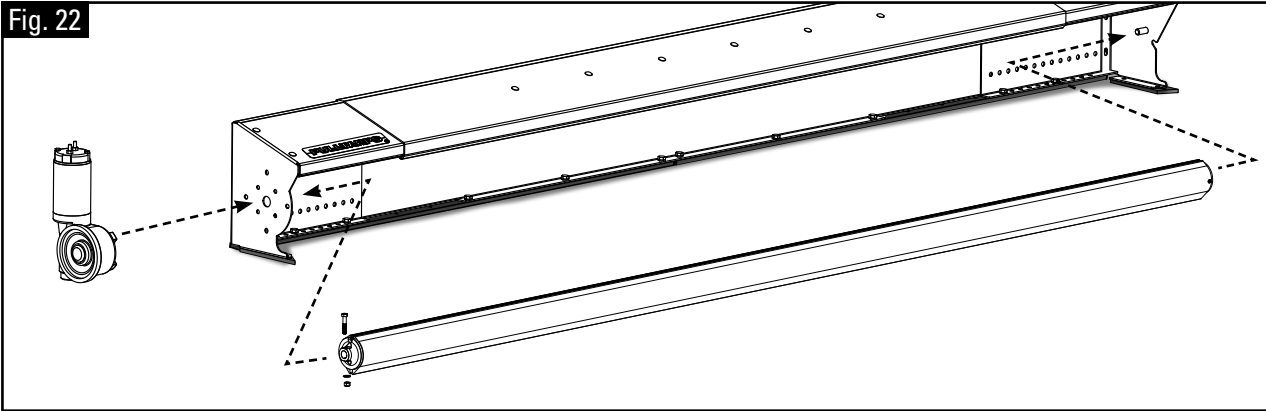


Fig. 23A

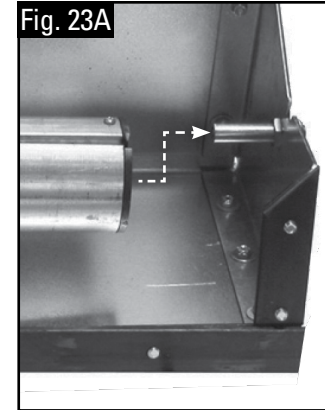
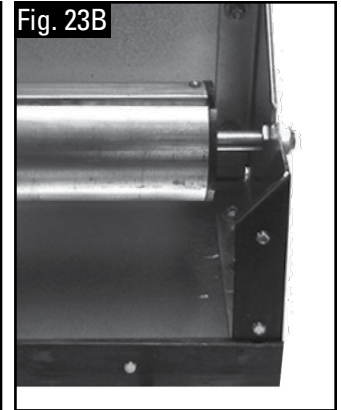


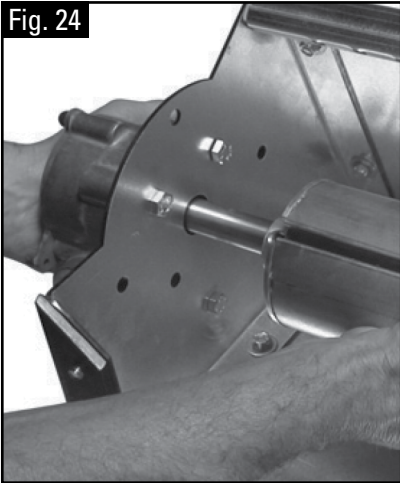
Fig. 23B



Step 14: Insert the flanged end cap onto the end plate stud (Fig. 23A & B).

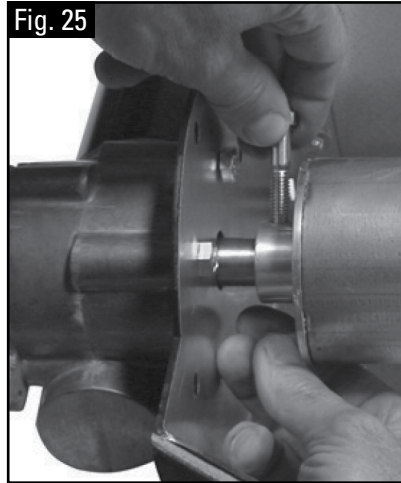
Step 15: Move motor into position and insert motor shaft into roller tube end cap (Fig. 24).

Fig. 24



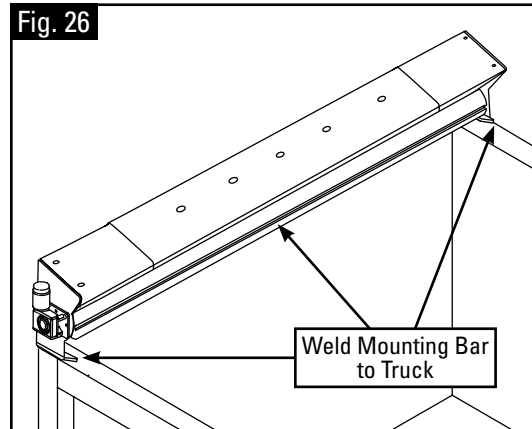
Step 16: Secure roller tube to electric motor with provided hardware (Fig. 25).

Fig. 25



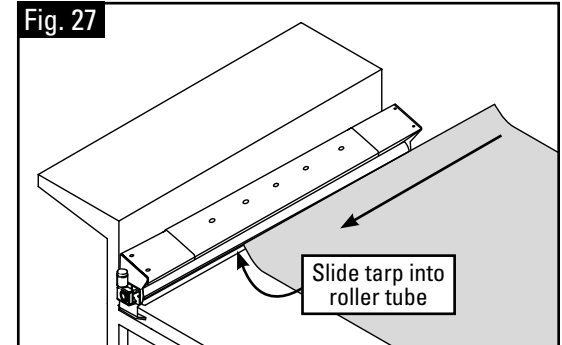
Step 17: Stitch weld system mounting bar every 6" to truck (Fig. 26).

Fig. 26



Note: If you'd prefer to bolt your housing system to the truck body, please see instructions [607-0156 / Bolt-On Mounting System](https://www.pulltarps.com/resources/technical-documents/607-0156/Bolt-On-Mounting-System).

Fig. 27



Step 18: Slide the tarp into the groove in the roller tube from the right side. Center the tarp on the roller tube. If needed, lubricate the edge of the tarp with soapy water so it will slide into the roller slot easily (Fig. 27).

Note: To install Flap Tarps, see Flap Tarps installation guide at <https://www.pulltarps.com/resources/technical-documents/>