



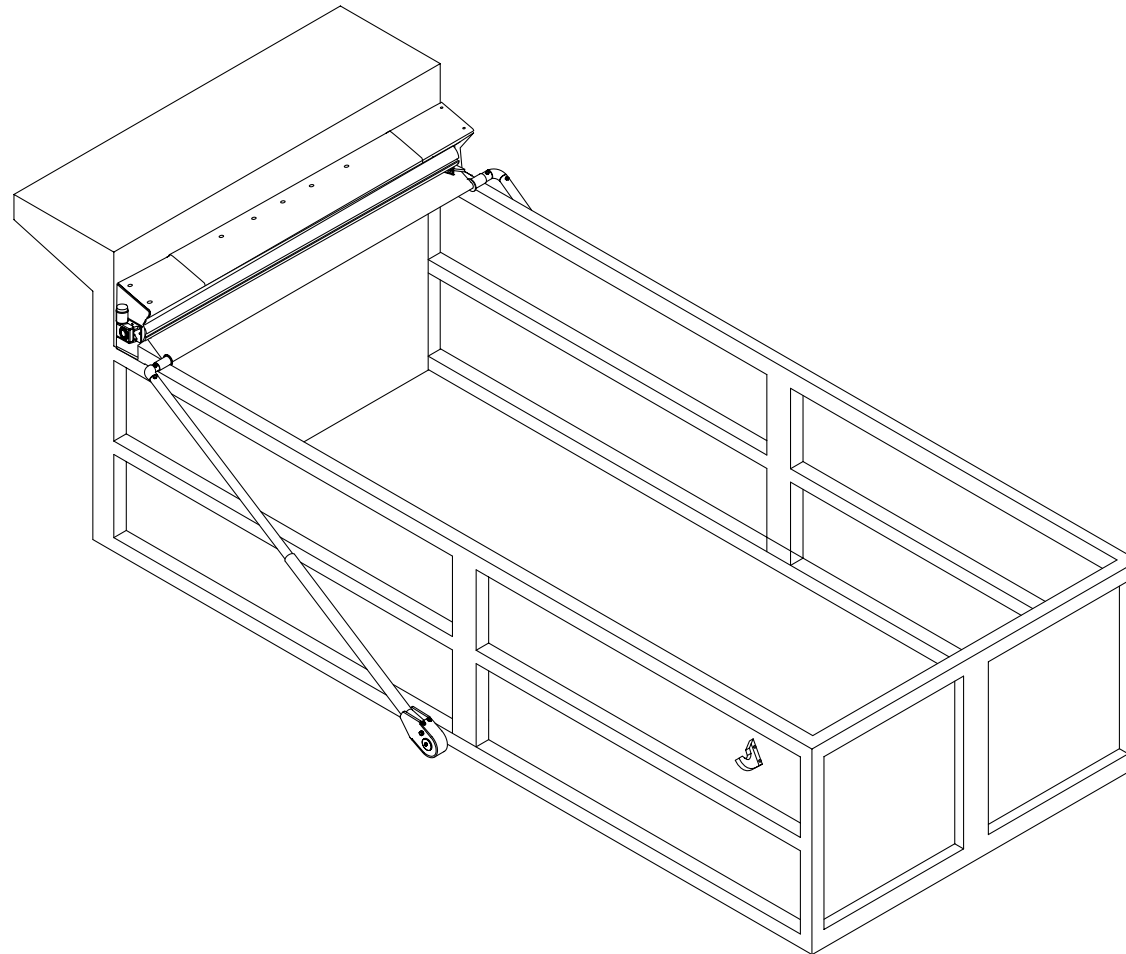
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## INSTALLATION INSTRUCTIONS

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

218-0215, 218-3017 & 218-3018



Document #: 607-0114  
Revised: 02/03/26 WLH

**DURING INSTALLATION, SOME FABRICATION MAY BE REQUIRED.**

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INSTALLATION INSTRUCTIONS

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

Table of Contents

Wiring, Parts & Tools

Wiring Diagram #514-0139 ..... 2

Deluxe High Amp Switch Kit - 12 Volt #514-0139 ..... 3

X-Pando (Adjustable) #218-0215..... 4

Recommended Tools ..... 5

X-Pando™ (Automatic) Installation

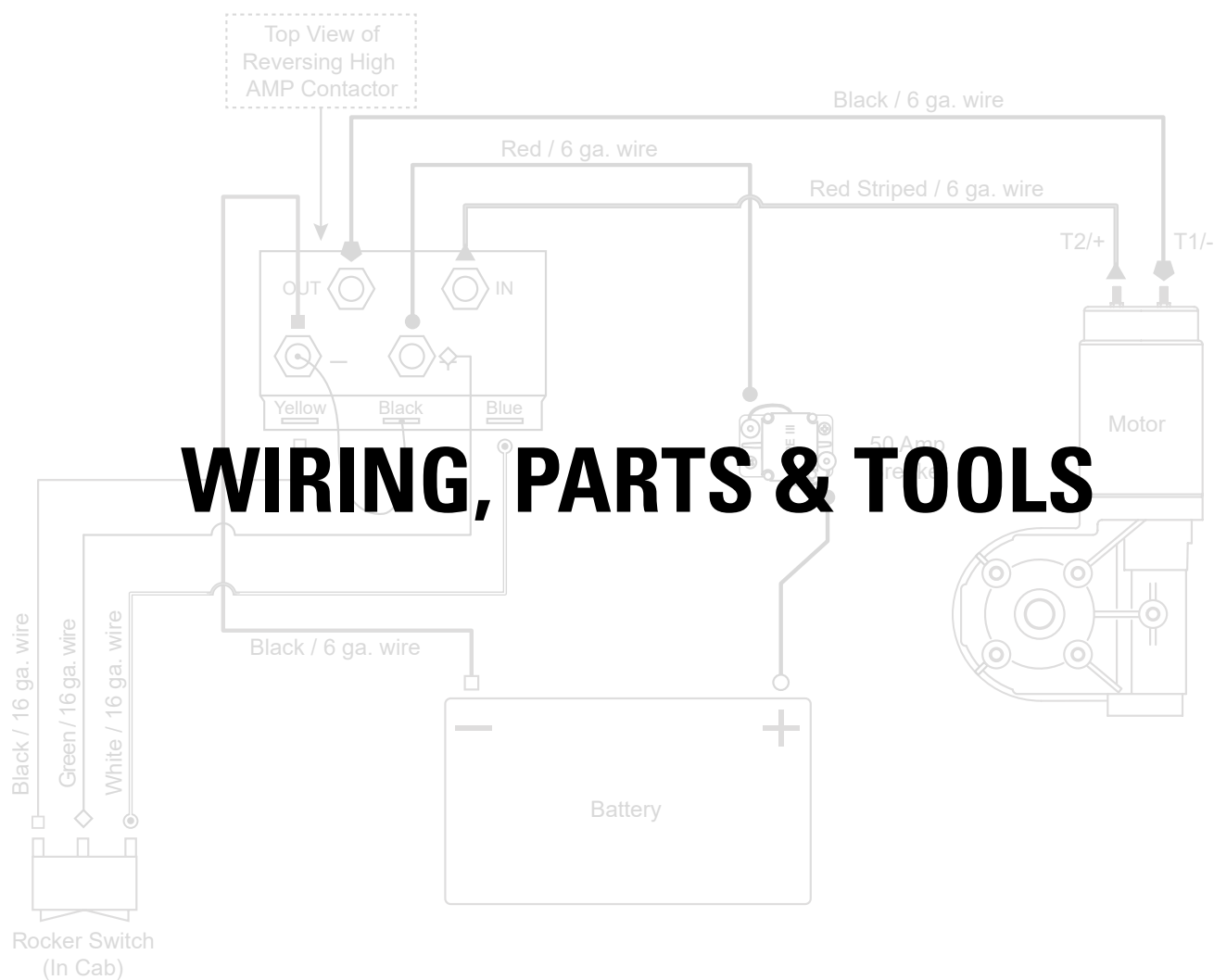
Mounting Positions ..... 7

Adjusting Housing Width ..... 8-9

Roller Tube EZ-Measure & End Cap Installation ..... 10

Installing the RollerTube & Electric Motor ..... 11





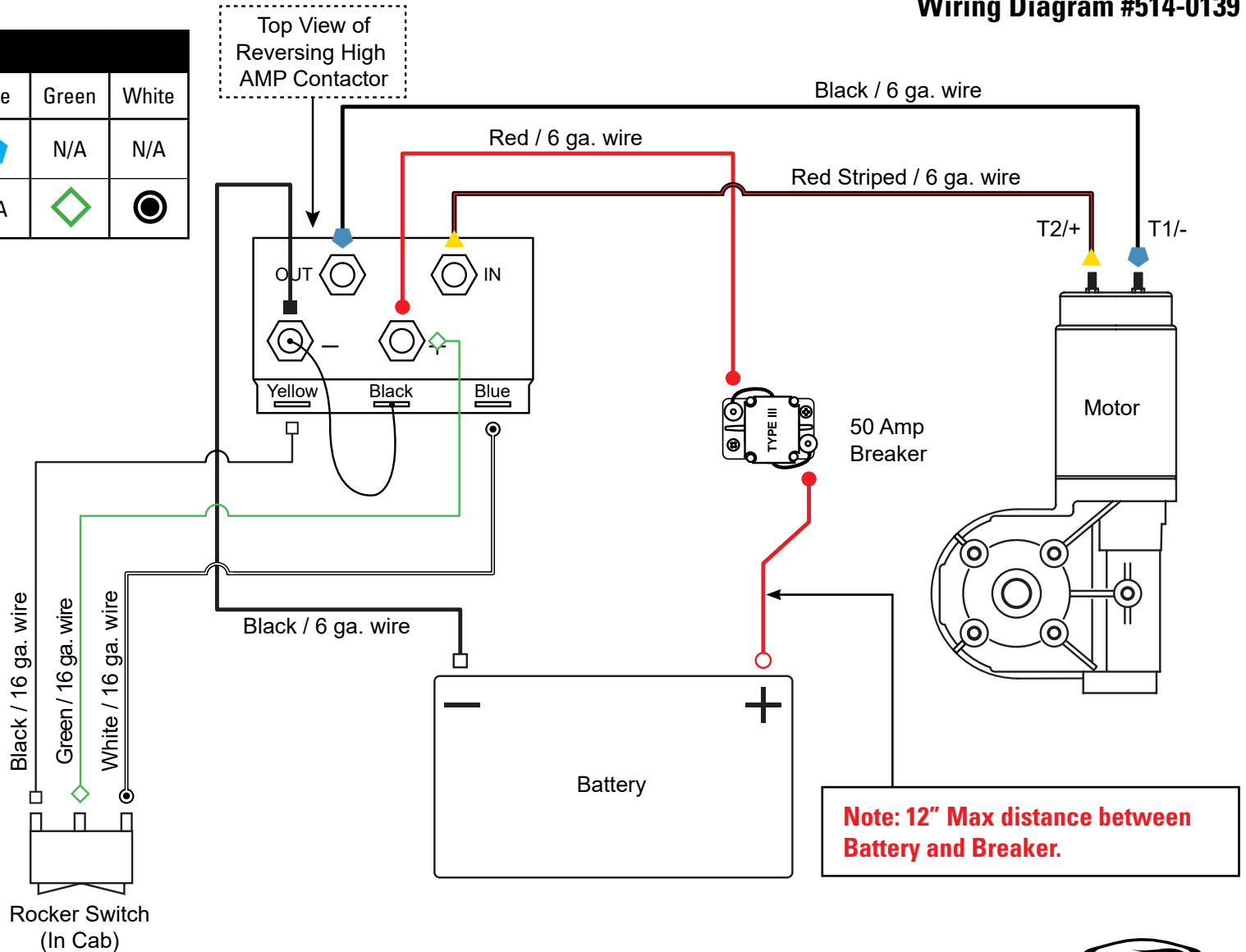


## INSTALLATION INSTRUCTIONS

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

### Wiring Diagram #514-0139

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

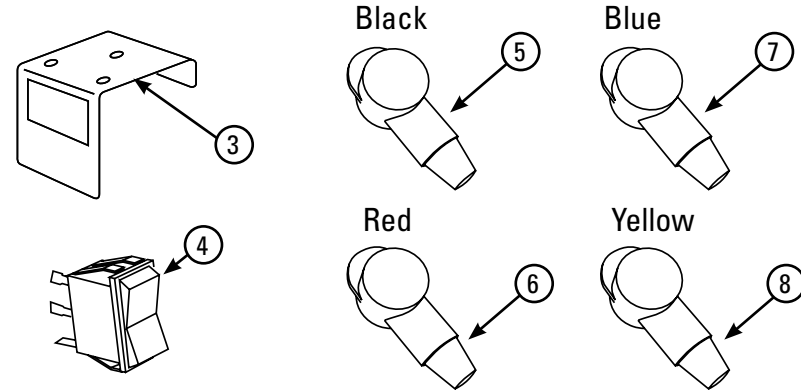
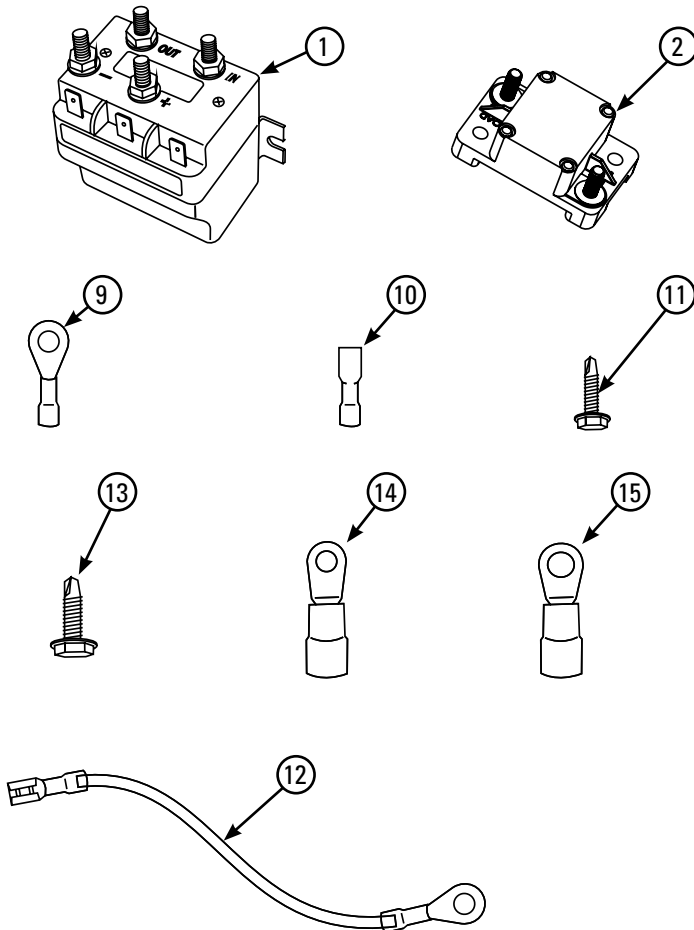




## INSTALLATION INSTRUCTIONS

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

### Deluxe High Amp Switch Kit - 12 Volt #514-0139



ITEM #	PART #	DESCRIPTION	QTY
1	514-9996	Reversing Polarity 12v Solenoid	1
2	514-0434	50 AMP Type III Breaker HIGH-AMP	1
3	514-9954	Rocker Switch Bracket	1
4	514-0117	Rocker Switch 3 Position Momentary	1
5	514-0337	Black Terminal Boot	1
6	514-0336	Red Terminal Boot	3
7	514-0342	Blue Terminal Boot	2
8	514-0343	Yellow Terminal Boot	2
9	514-0304	Connector 14 ga. Lug with 1/4\" Eyelet	1
10	514-0321	Push On Female Terminal 16 ga.	5
11	506-9904	#10 x 3/4\" Self Drilling Screw	4
12	514-9921	4\" Black 10ga. Jumper Wire	1
13	506-9929	#12-14 Self Drilling TEK Screw	2
14	514-0308	Connector 6 ga. Lug with 1/4\" Eyelet	8
15	514-0309	Connector 6 ga. Lug with 3/8\" Eyelet	2
--	514-0211	#16-3 Wire PVC 27# Copper	25Ft.

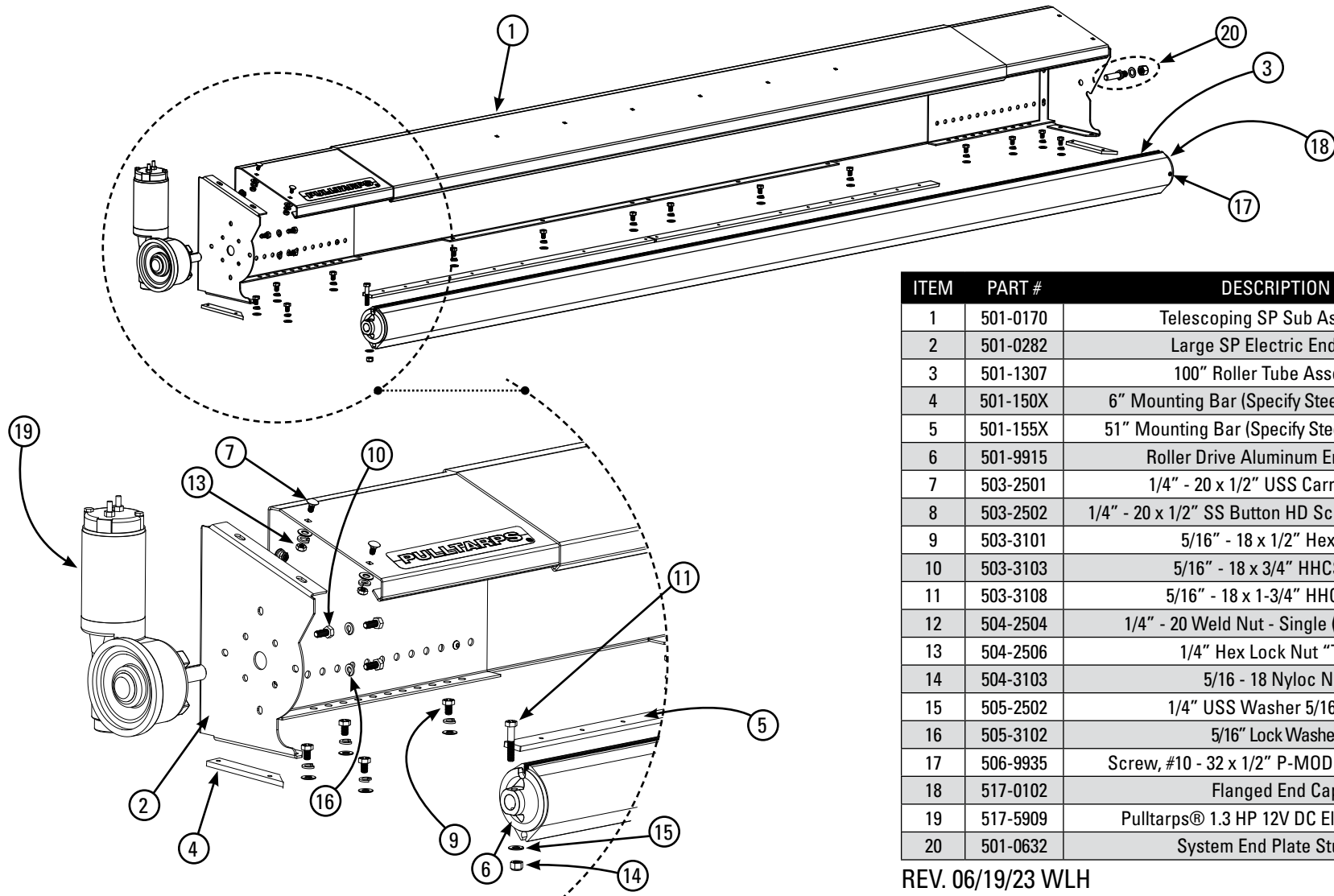
REV. 10/01/20 WLH



## INSTALLATION INSTRUCTIONS

## 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
20	501-0632	System End Plate Stud Kit	1

REV. 06/19/23 WLH



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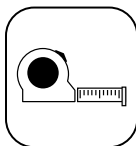
## INSTALLATION INSTRUCTIONS

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

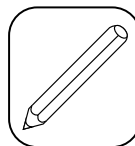
### Recommended Tools



Safety Glasses and Gloves



Tape Measure



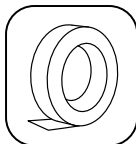
Pencil or Marker



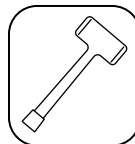
Metal File



Hacksaw



Masking Tape



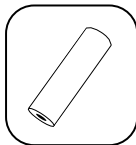
Mallet or Deadblow Hammer



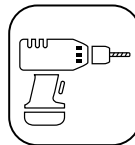
Adjustable Wrench



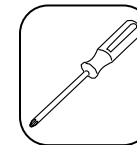
Socket Wrench



1/2" Socket



Impact Drill



Philips Screwdriver



1/2" Open/Close Wrench



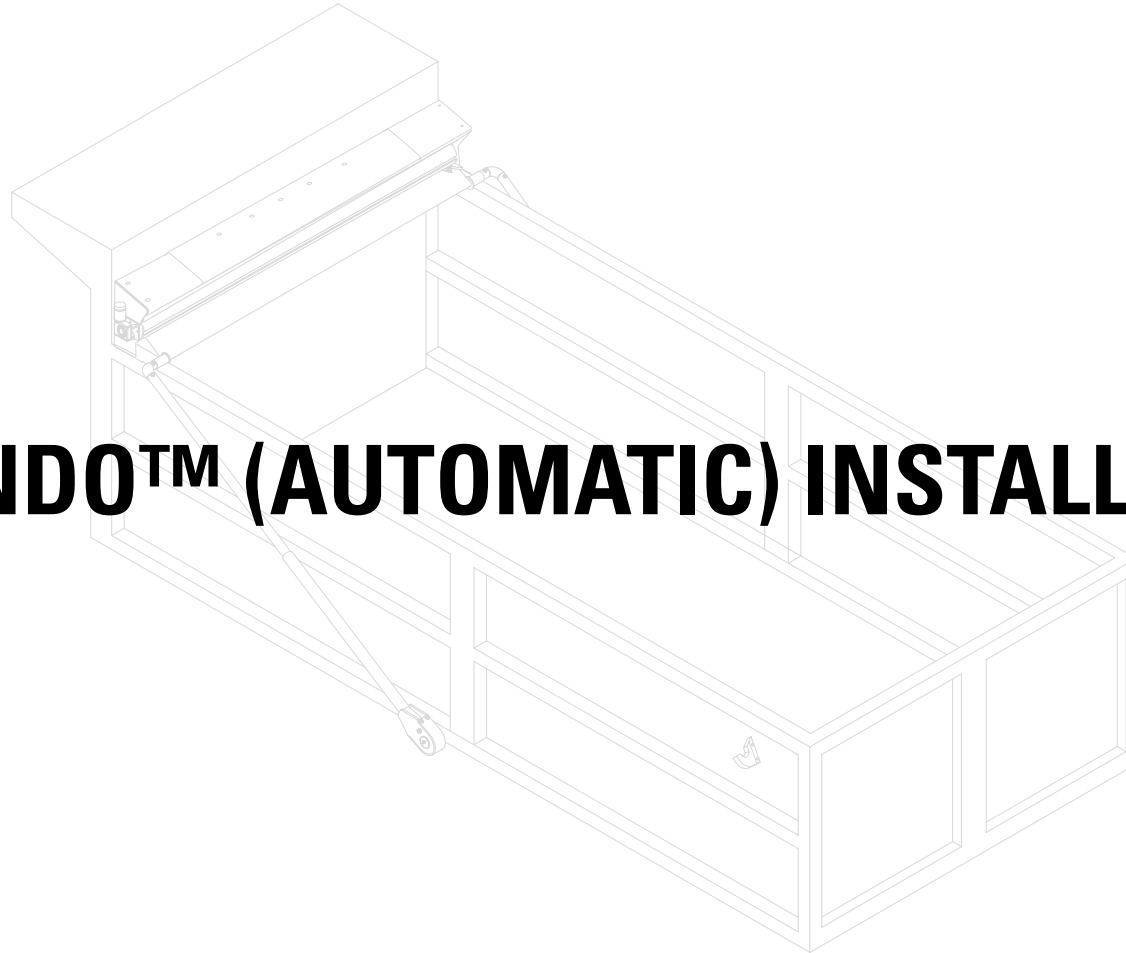
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INSTALLATION INSTRUCTIONS

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

# X-PANDO™ (AUTOMATIC) INSTALLATION





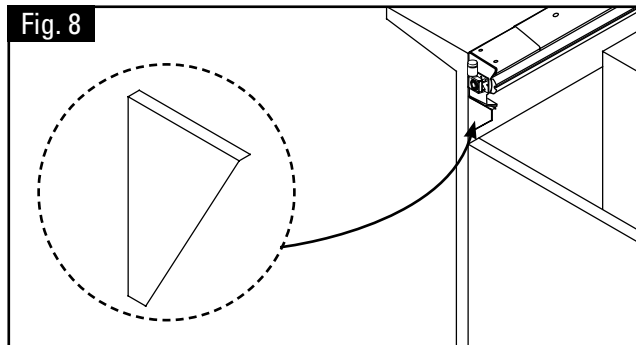
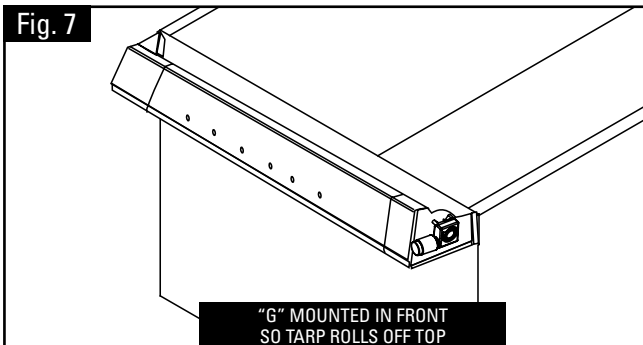
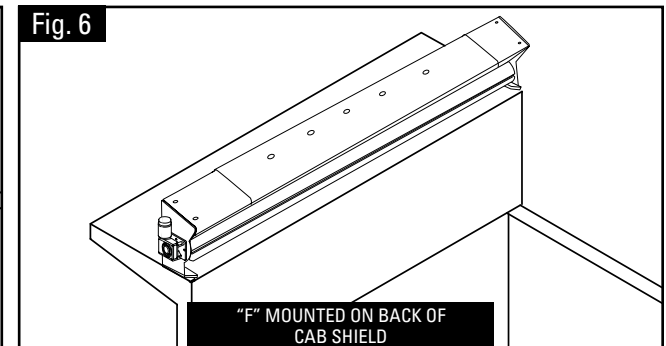
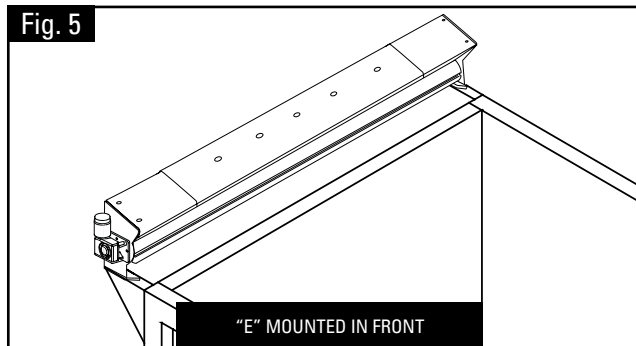
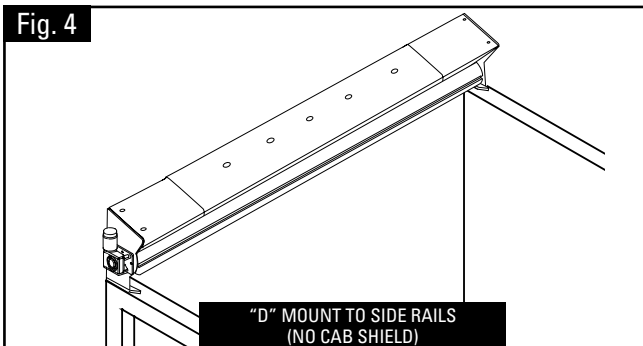
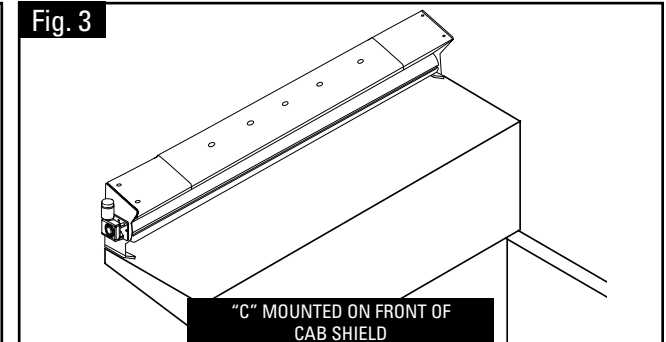
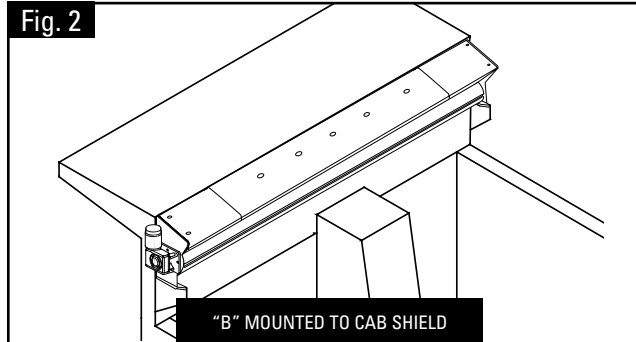
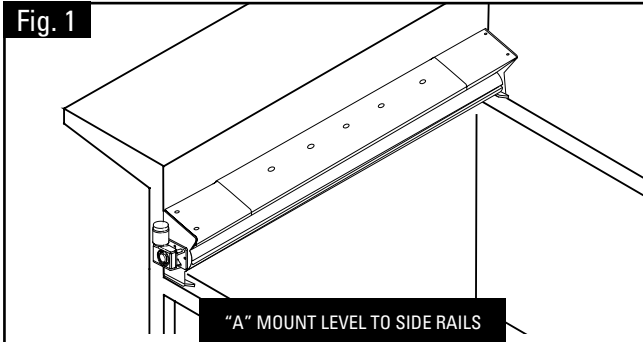


## INSTALLATION INSTRUCTIONS

## 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).



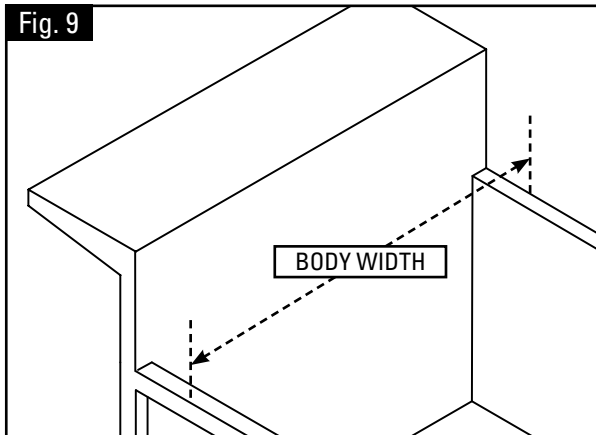
## INSTALLATION INSTRUCTIONS

## 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

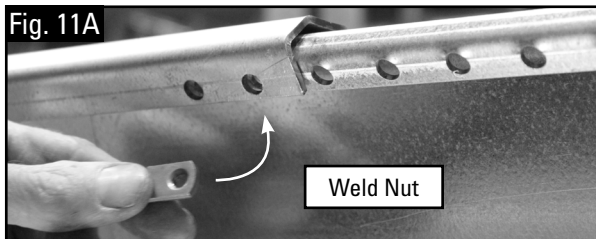


Fig. 11B



**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

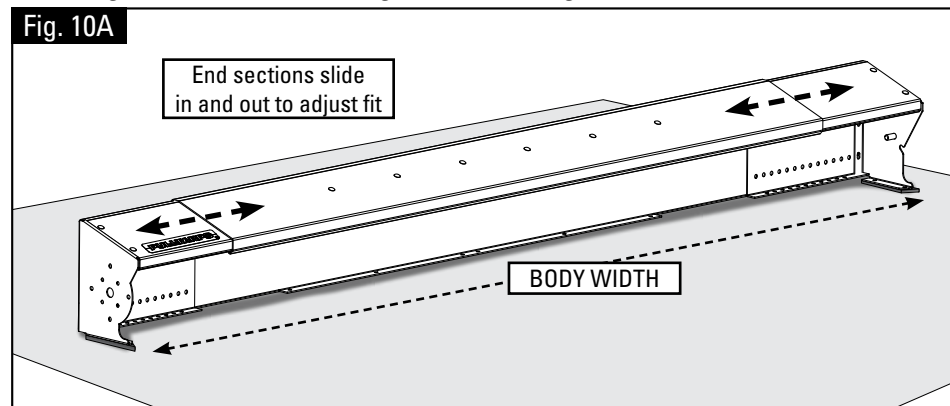
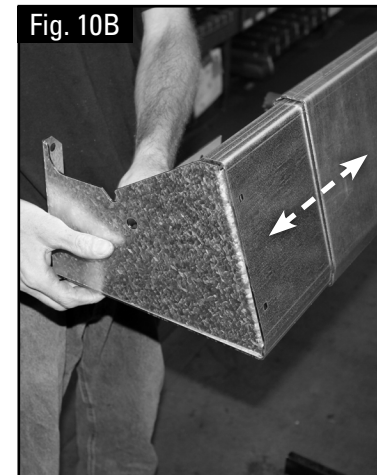


Fig. 10B



**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

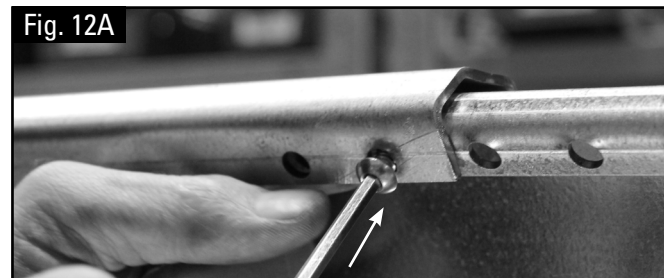


Fig. 12B

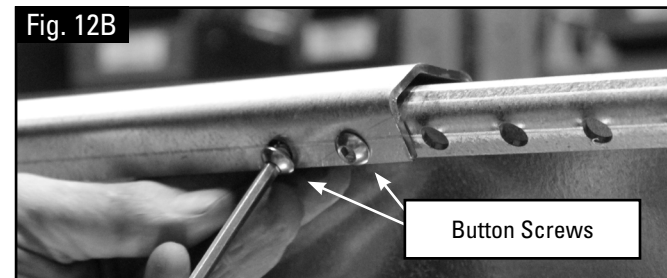
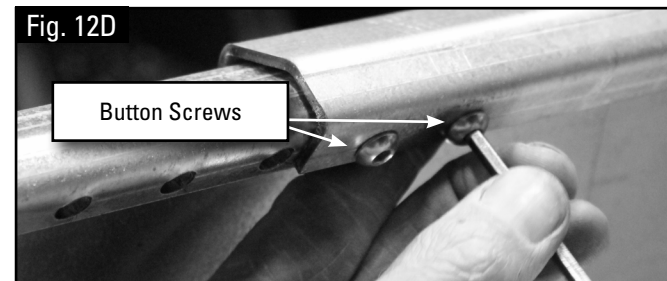


Fig. 12C



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

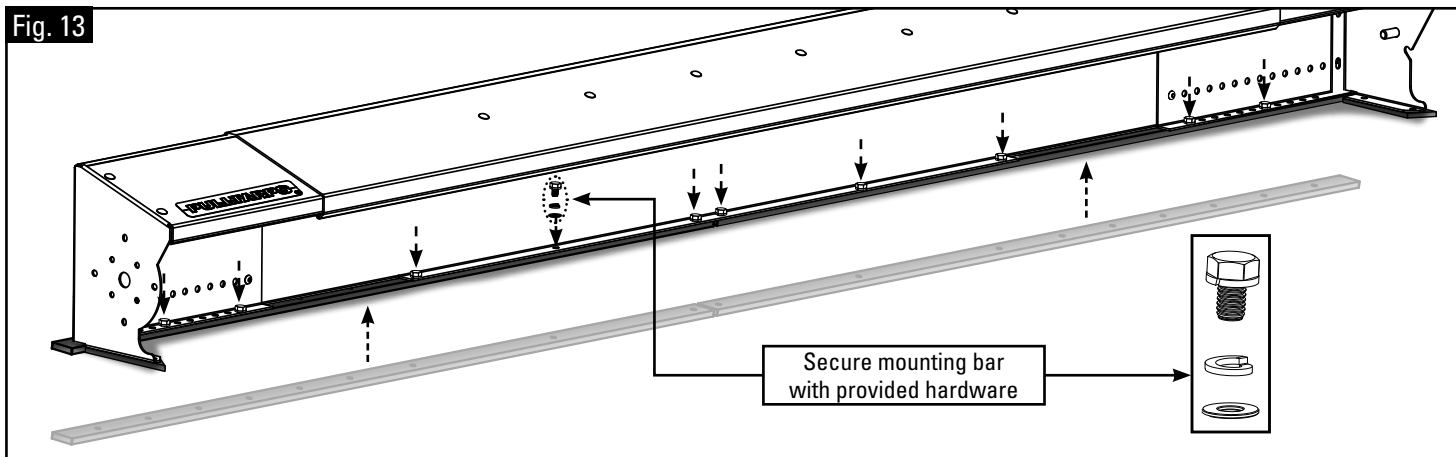
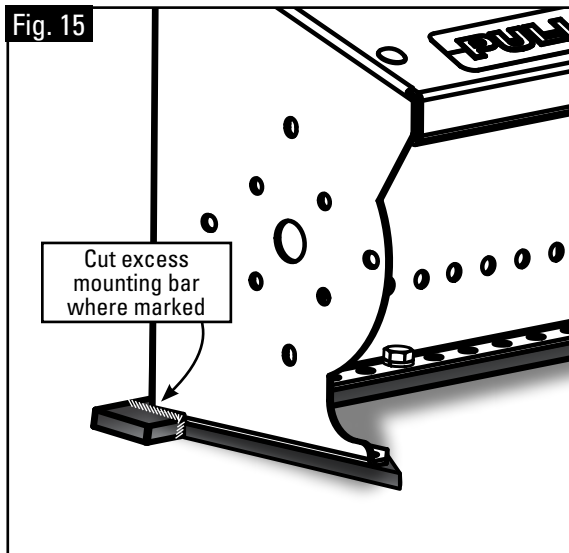


Fig. 14



**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

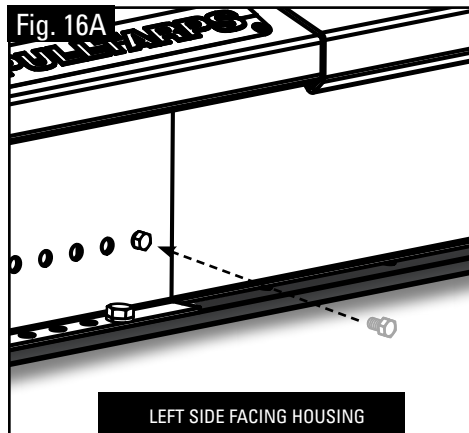
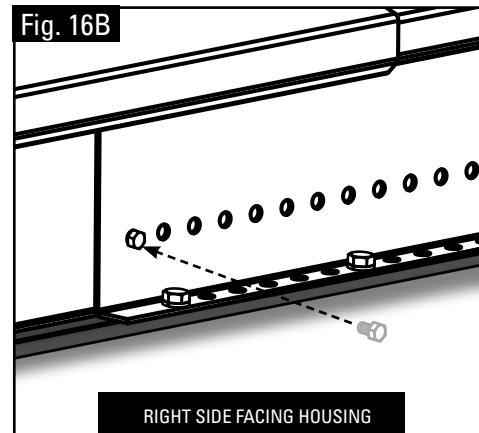


Fig. 16B



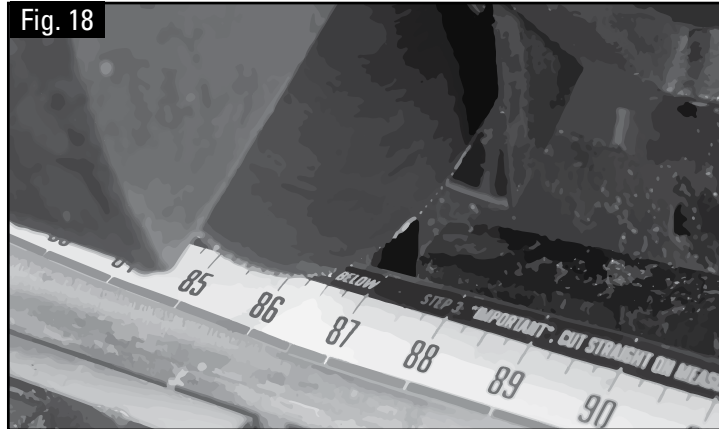
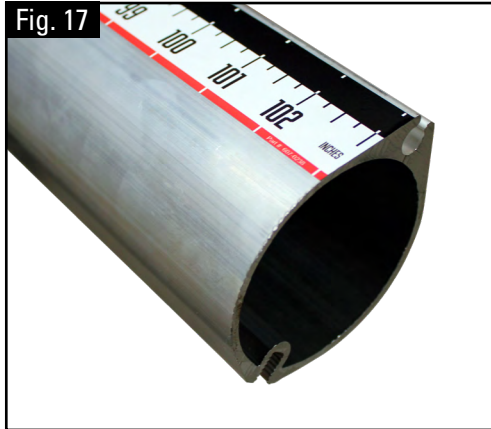
**Optional:** For added strength, you can add a single bolt and nylock nut to the back of the slide in section on each side and secure to center section (Fig. 16A & B).



## 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).

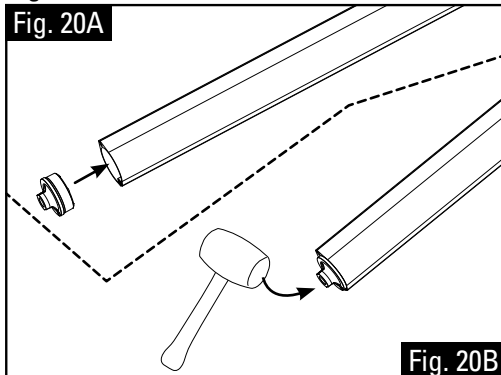
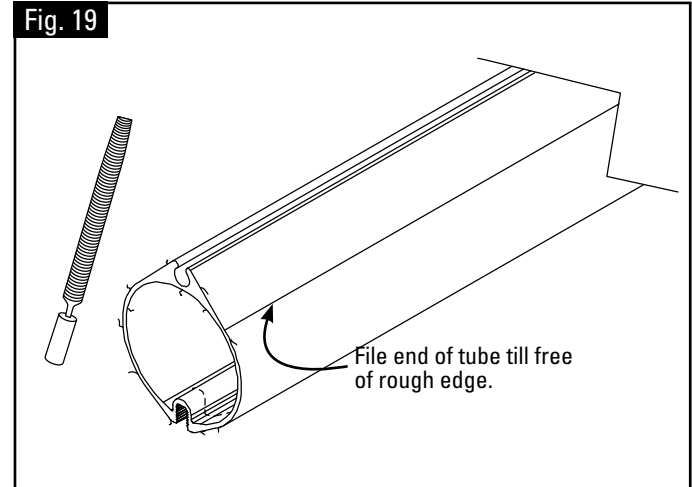
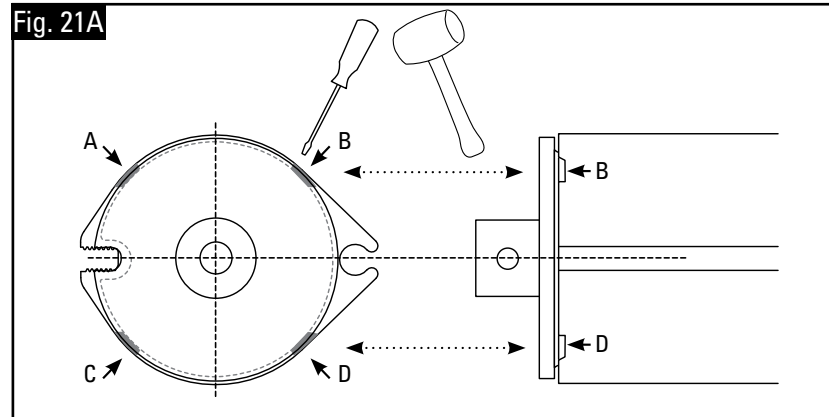


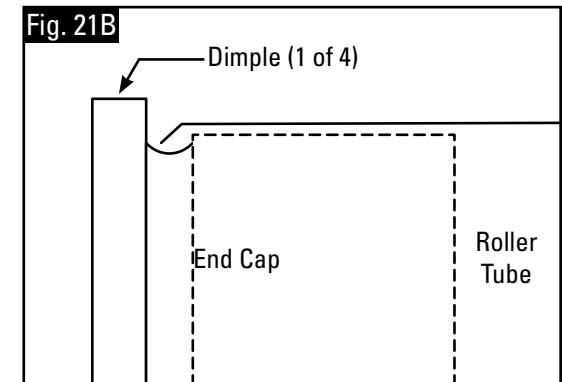
Fig. 20B

**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).







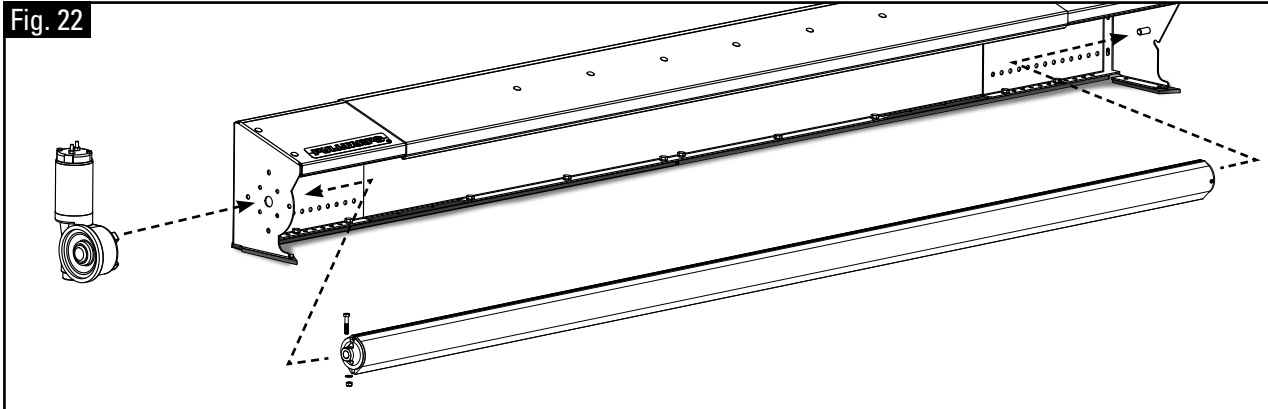
## INSTALLATION INSTRUCTIONS

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

### Installing the RollerTube & Electric Motor

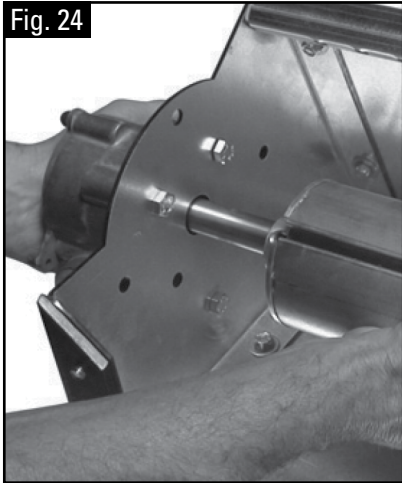
**Step 13:** See the diagram for roller tube insertion into housing (Fig. 22).

Fig. 22



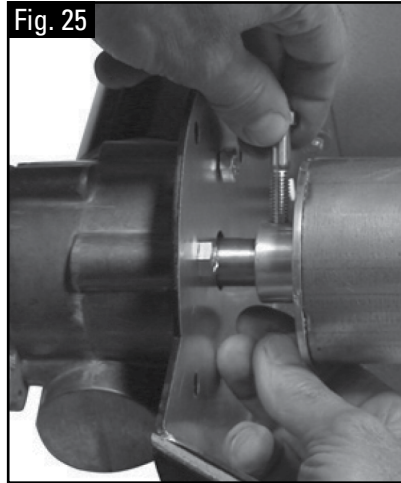
**Step 15:** Move motor into position and insert motor shaft into roller tube end cap (Fig. 24).

Fig. 24



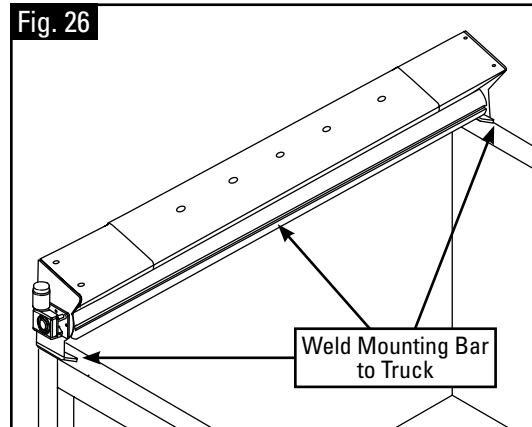
**Step 16:** Secure roller tube to electric motor with provided hardware (Fig. 25).

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.

Fig. 23A

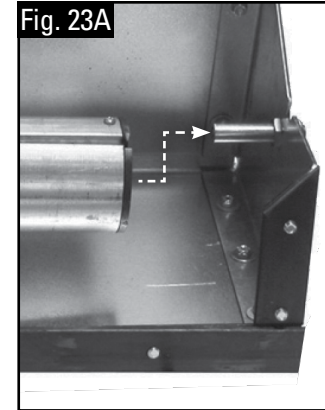
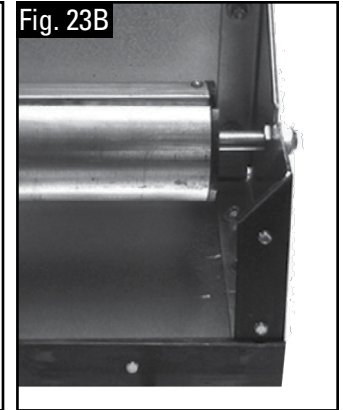
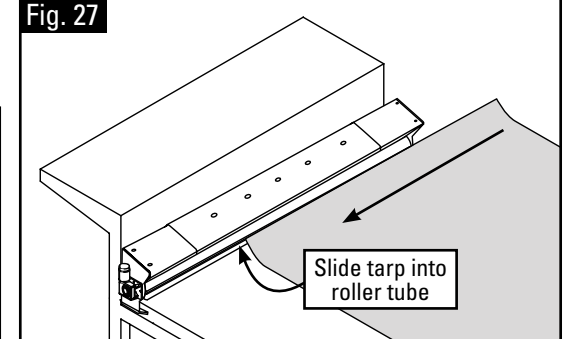


Fig. 23B



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

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/>