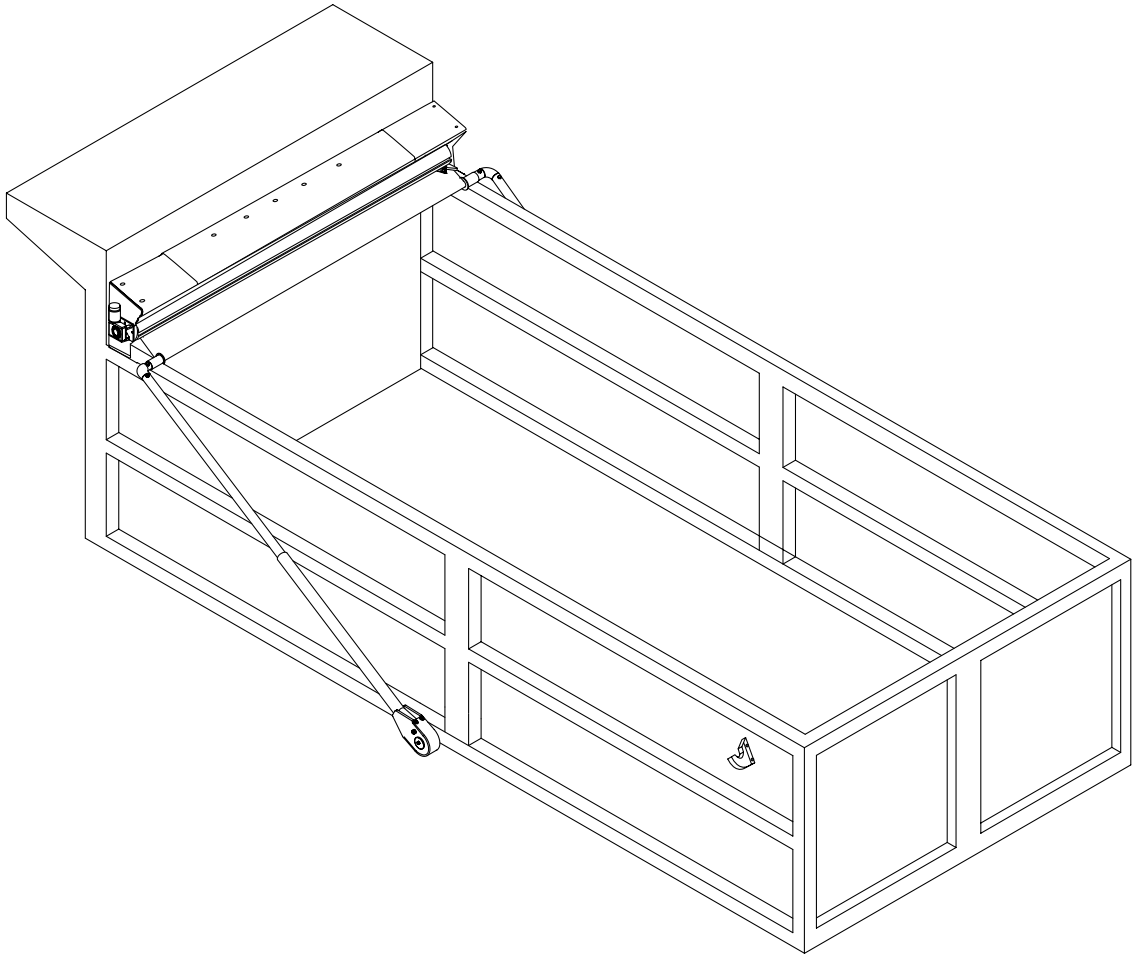
PULLTARPS®

INSTALLATION INSTRUCTIONS

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

218-0215, 218-3017 & 218-3018



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

Document #: 607-0114
Revised: 11/09/26 WLH

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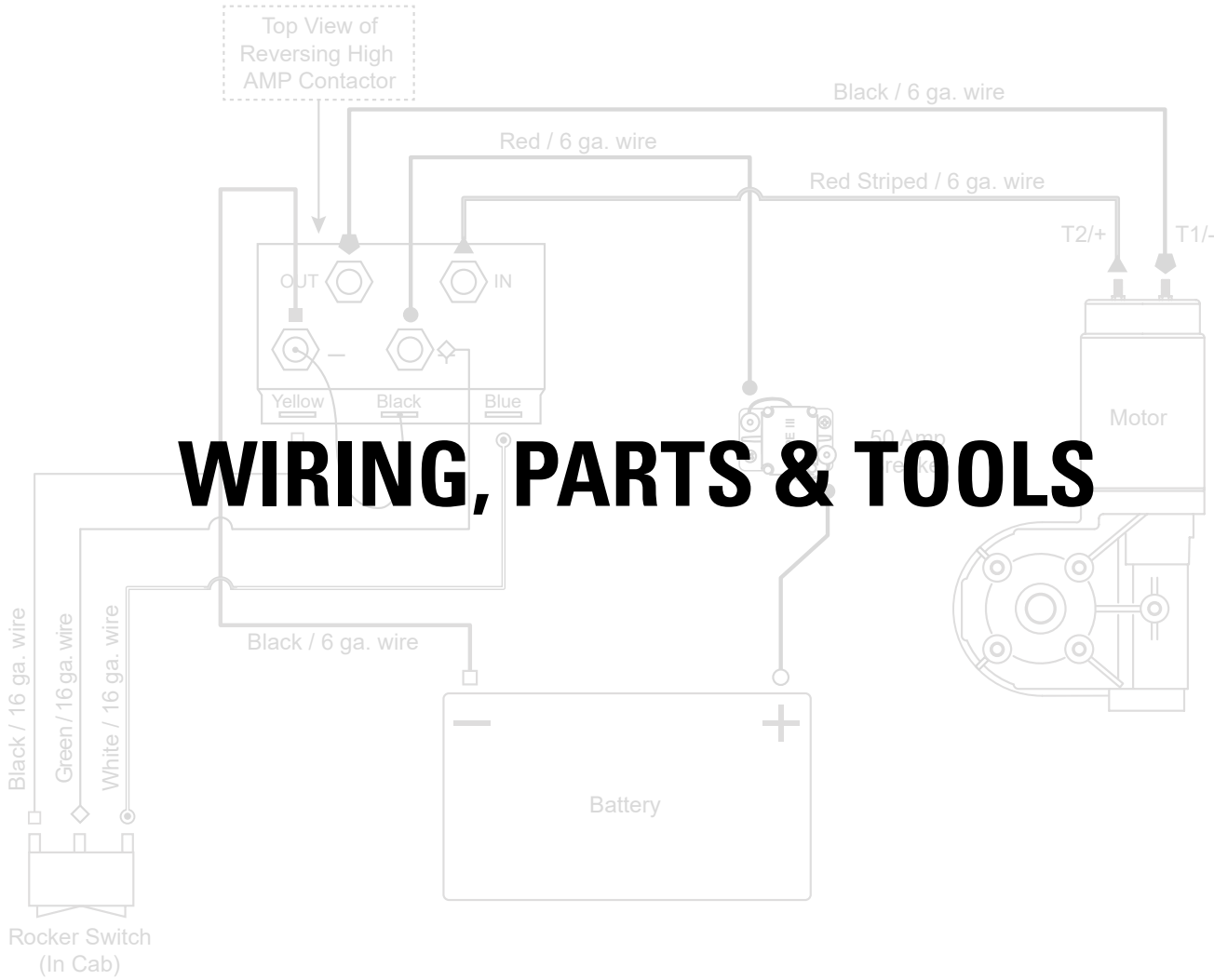
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X-Pando™ (Automatic) Installation

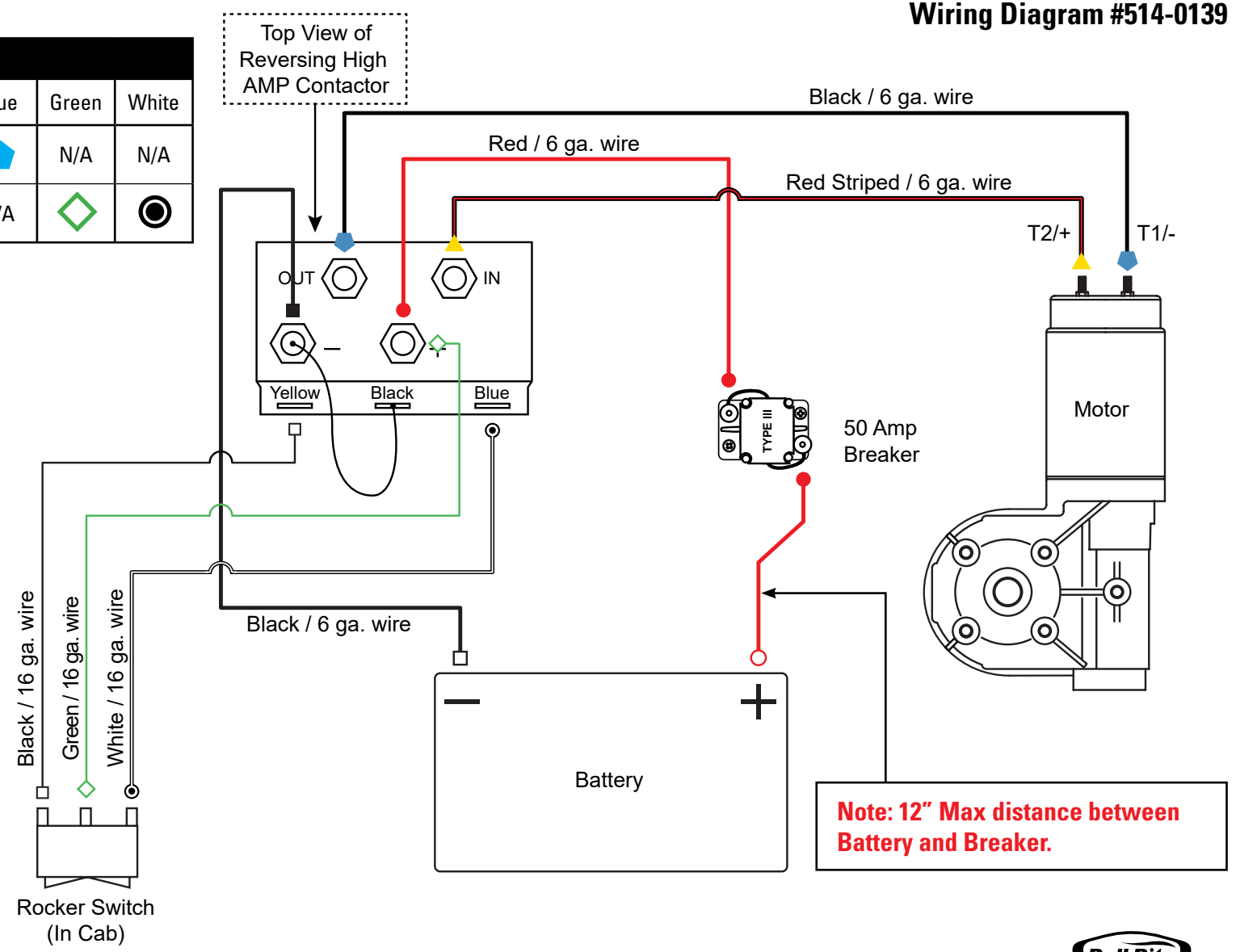
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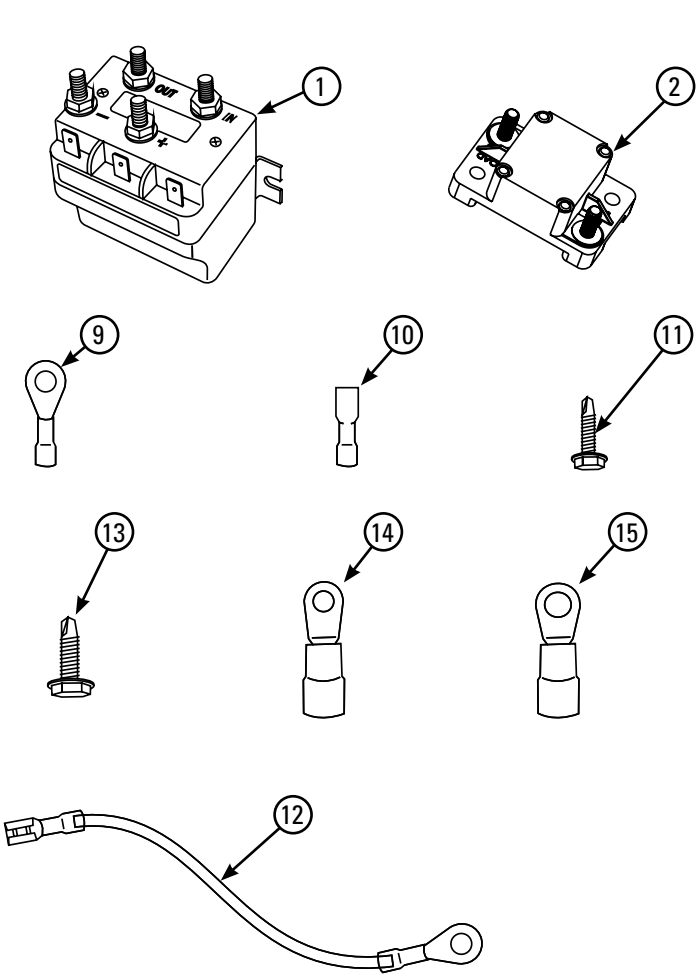
WIRING, PARTS & TOOLS

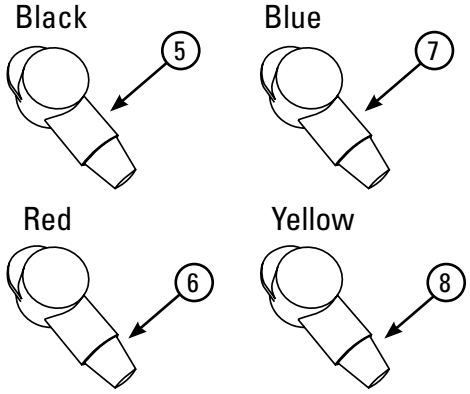
Wiring Diagram #514-0139

BOOT COLORS	Red	Black	Yellow	Blue	Green	White
With Boot	●	■	▲	⬟	N/A	N/A
No Boot	○	□	N/A	N/A	◇	◉



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

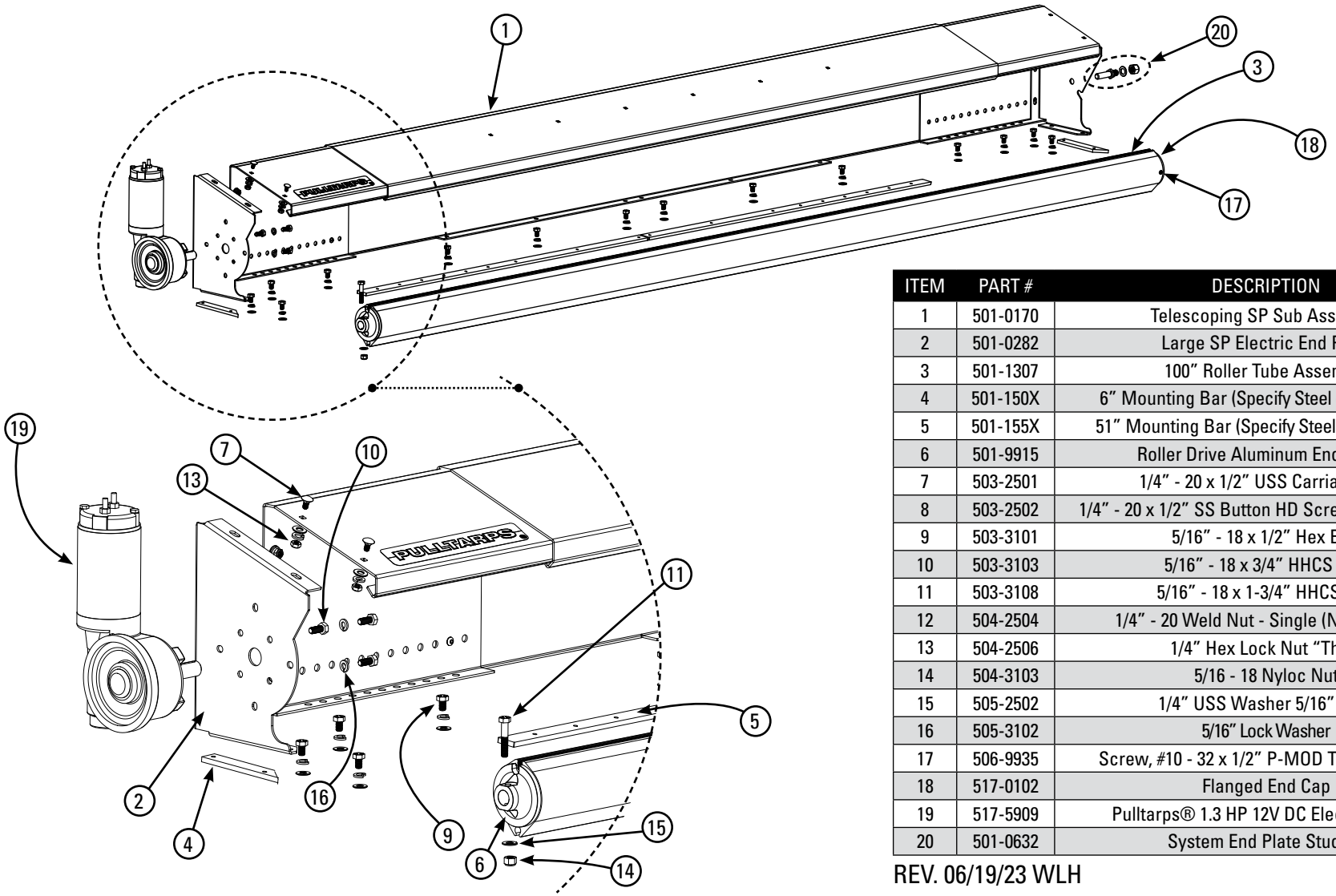




ITEM #	PART #	DESCRIPTION	QTY
1	514-9996	Reversing Polarity 12v Solenoid	1
2	514-0434	50 AMP Type III Breaker HIGH-AMP	1
3	514-9954	Rocker Switch Bracket	1
4	514-0117	Rocker Switch 3 Position Momentary	1
5	514-0337	Black Terminal Boot	1
6	514-0336	Red Terminal Boot	3
7	514-0342	Blue Terminal Boot	2
8	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

X-Pando (Adjustable) #218-0215



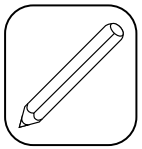
ITEM	PART #	DESCRIPTION	QTY
1	501-0170	Telescoping SP Sub Assembly	1
2	501-0282	Large SP Electric End Plate	1
3	501-1307	100" Roller Tube Assembly	1
4	501-150X	6" Mounting Bar (Specify Steel or Aluminum)	2
5	501-155X	51" Mounting Bar (Specify Steel or Aluminum)	2
6	501-9915	Roller Drive Aluminum End 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

Recommended Tools

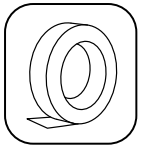

Safety Glasses and Gloves


Tape Measure


Pencil or Marker


Metal File

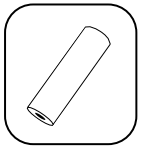

Hacksaw


Masking Tape

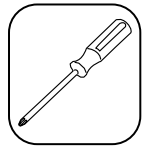

Mallet or Deadblow Hammer


Adjustable Wrench


Socket Wrench


1/2" Socket

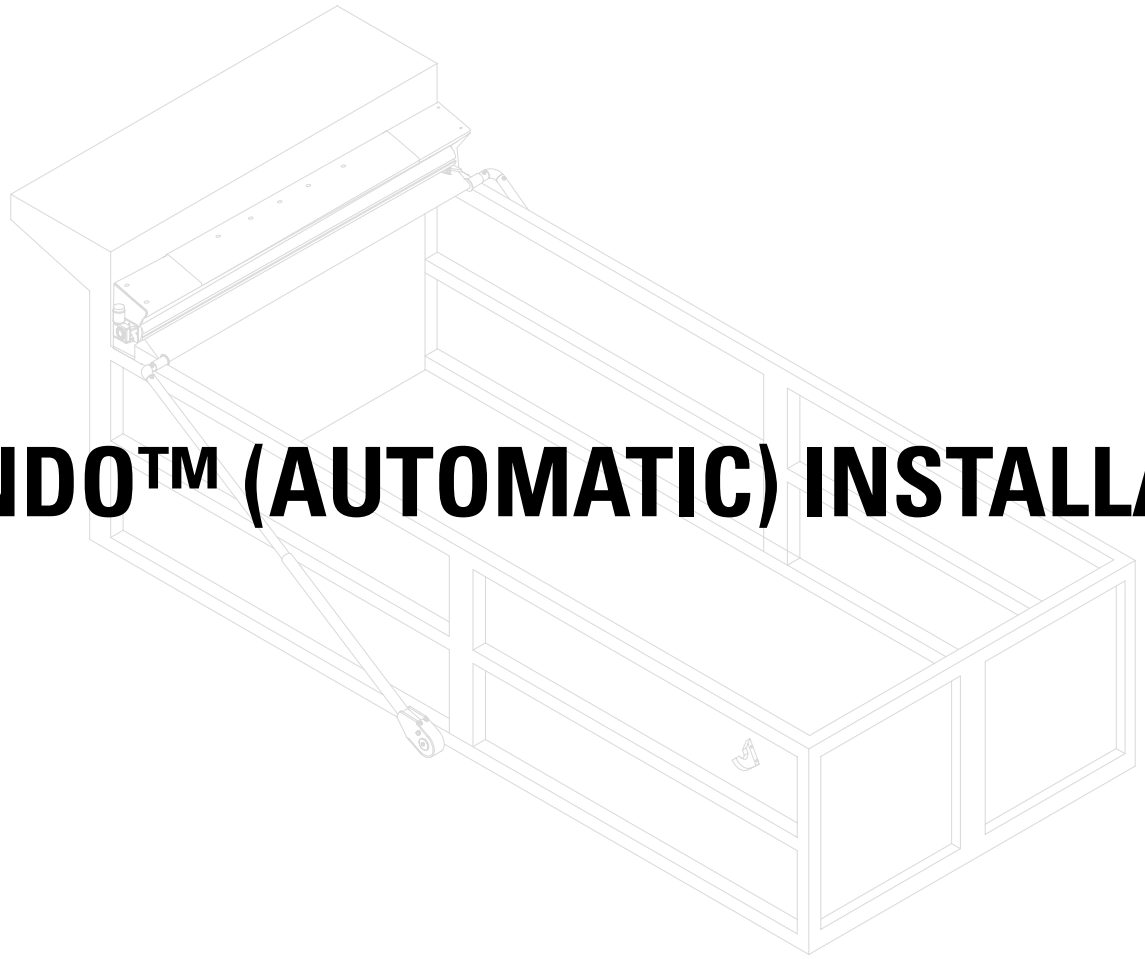

Impact Drill


Philips Screwdriver


1/2" Open/Close Wrench


Hammer


Flathead Screwdriver



X-PANDO™ (AUTOMATIC) INSTALLATION

Mounting Positions

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

Fig. 1

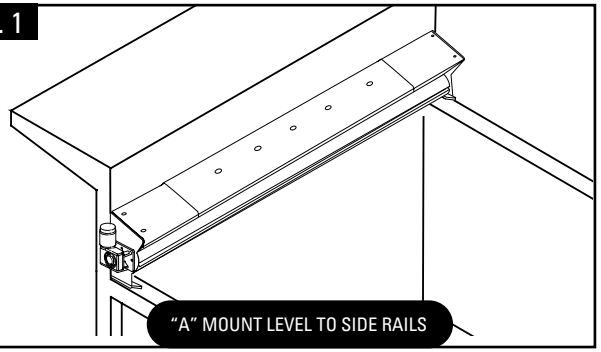


Fig. 2

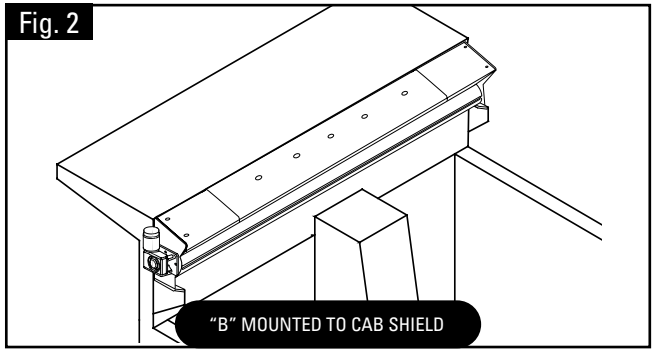


Fig. 3

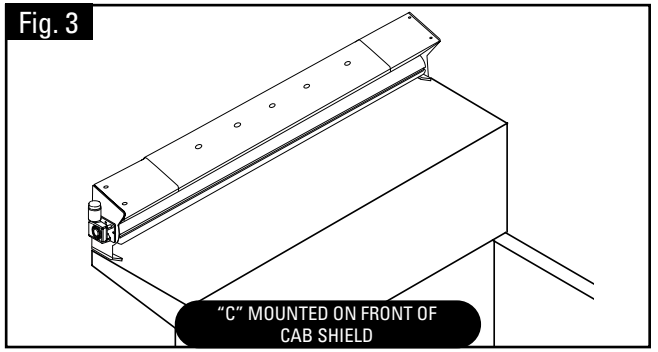


Fig. 4

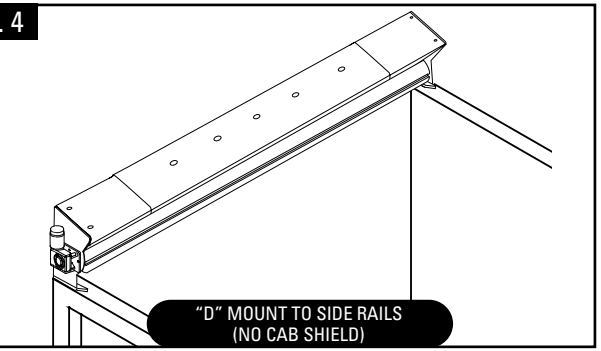


Fig. 5

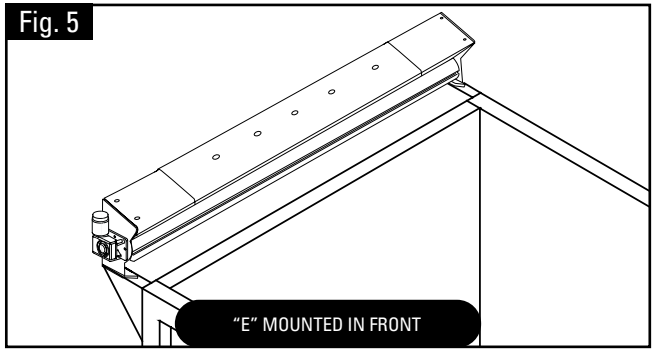


Fig. 6

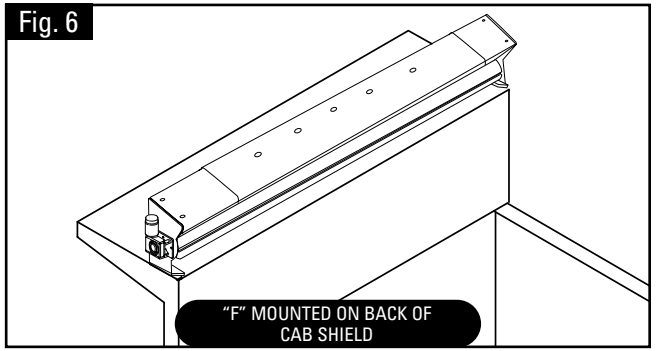


Fig. 7

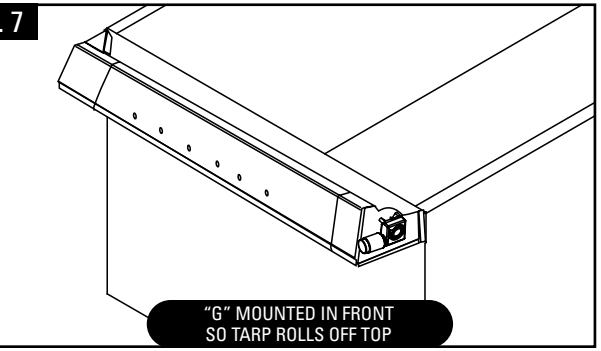
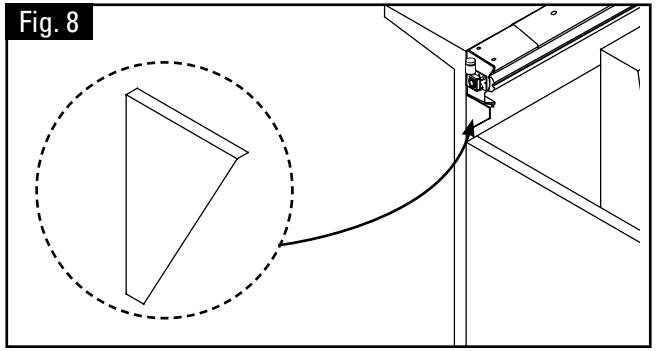


Fig. 8



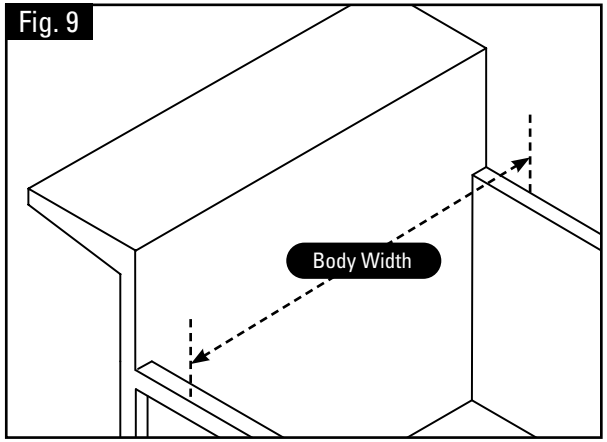
"B" BRACKETS

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

Adjusting Housing Width

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

Fig. 9



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

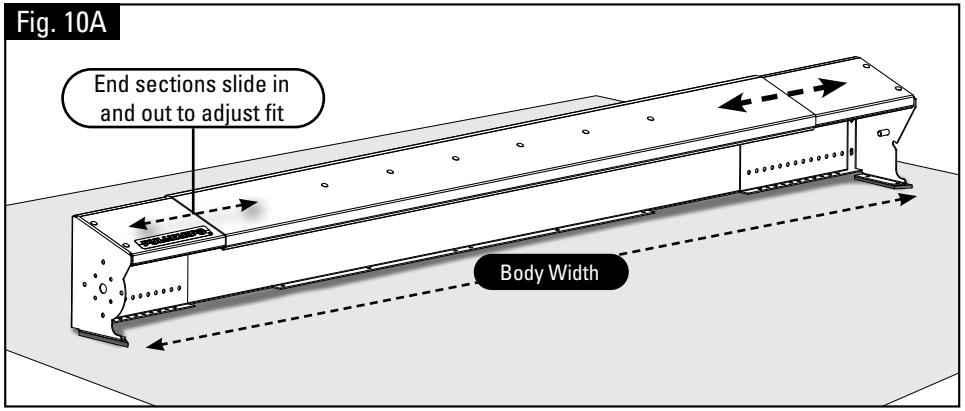
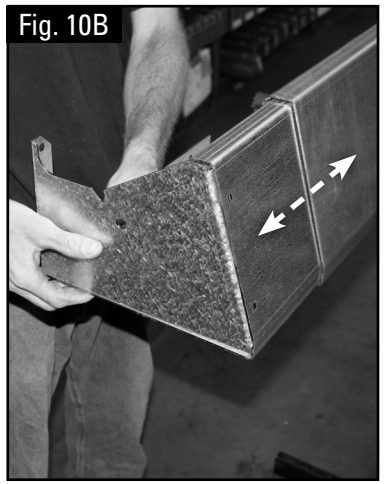


Fig. 10B



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

Fig. 11A

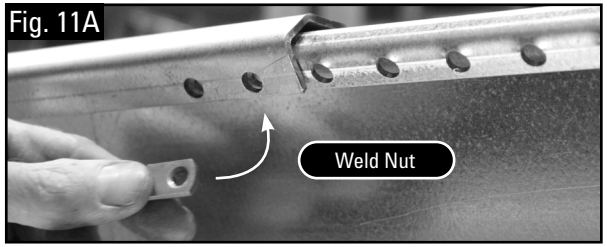


Fig. 11B



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

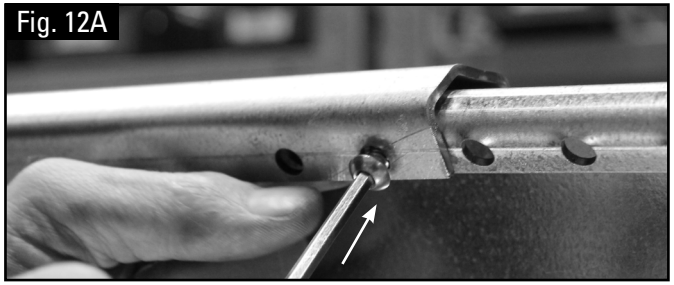


Fig. 12B

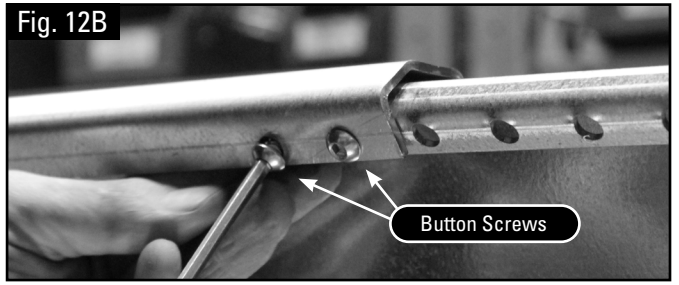


Fig. 12C

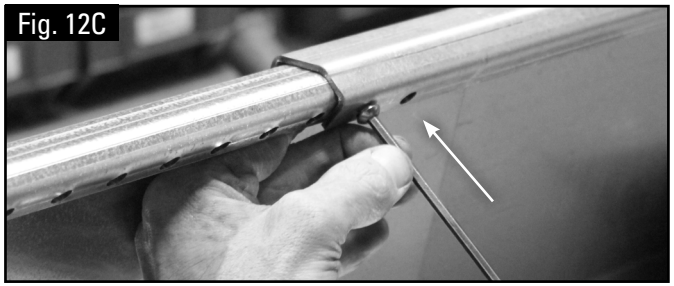
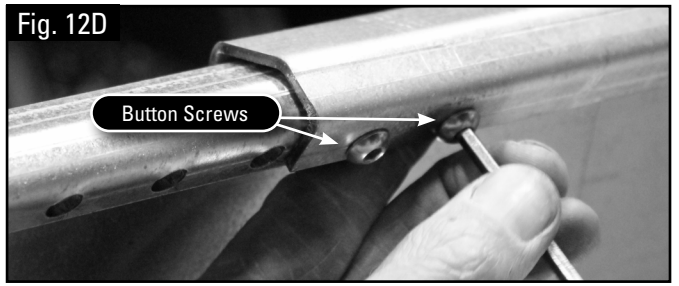


Fig. 12D



Adjusting Housing Width

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

Fig. 13

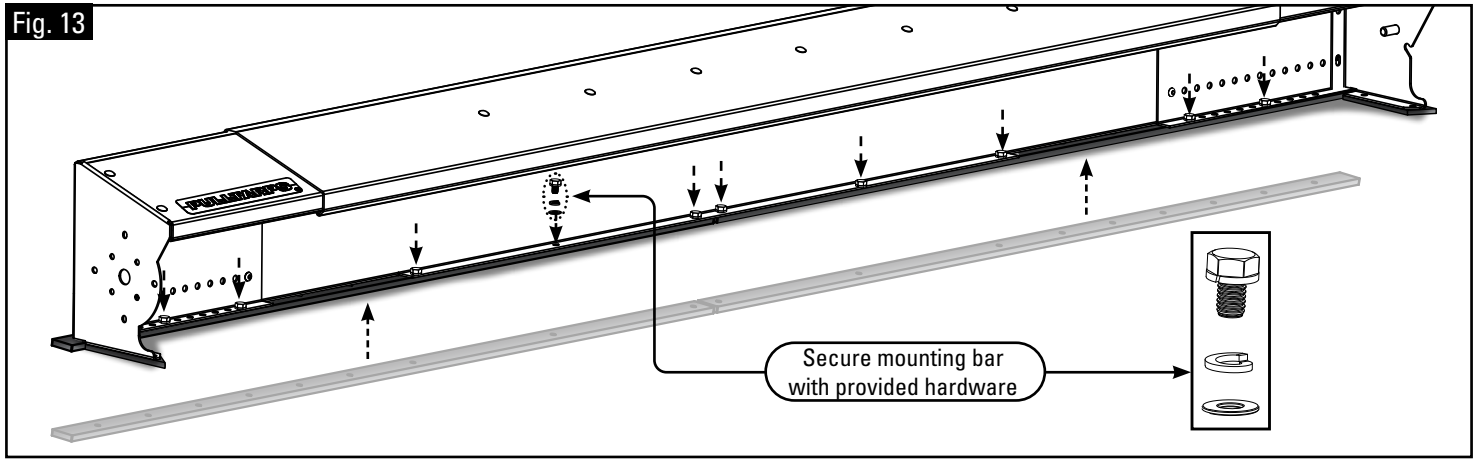
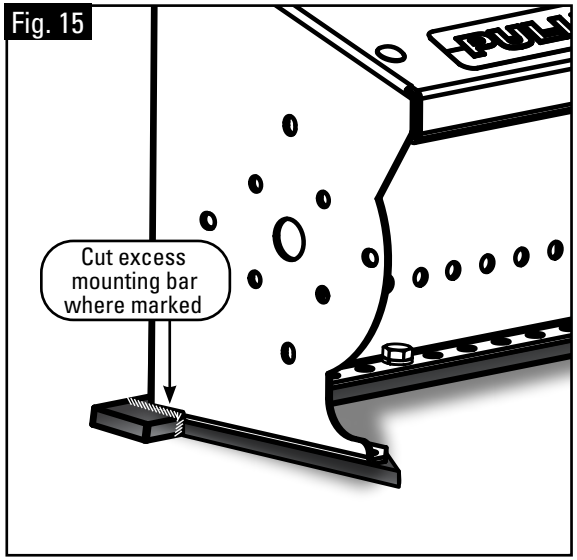


Fig. 14



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

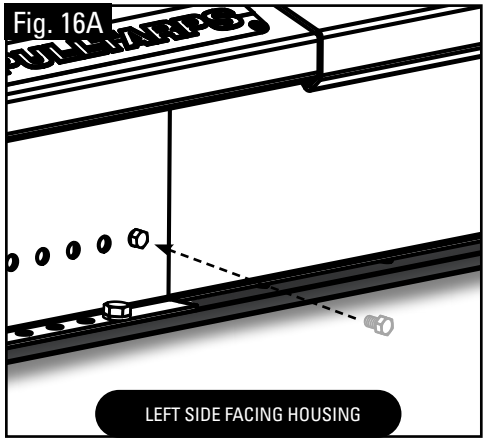
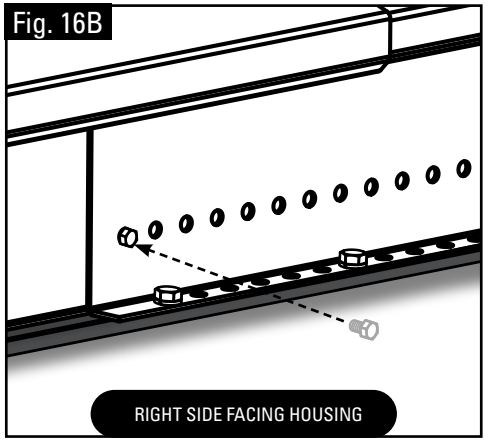


Fig. 16B



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).

Roller Tube EZ-Measure & Plastic End Cap Assembly

Fig. 17

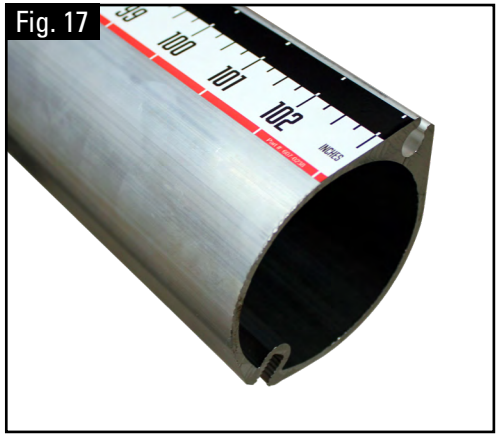
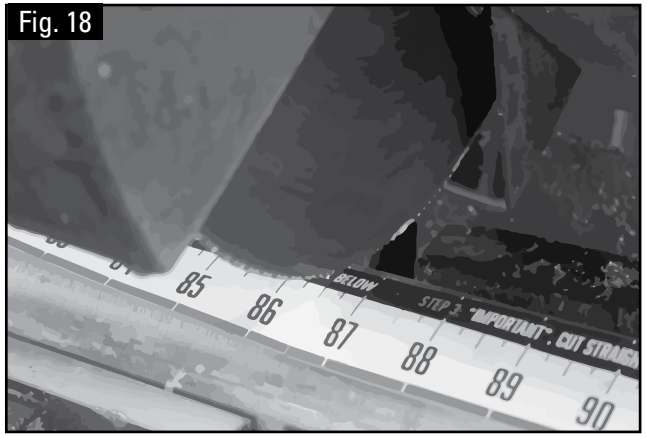
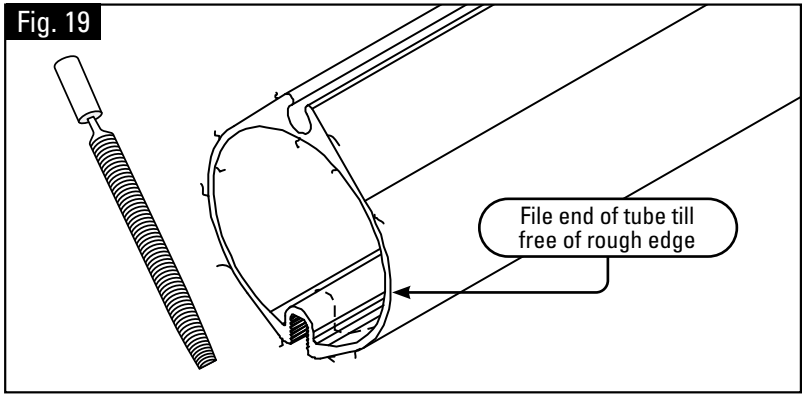


Fig. 18



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.

Fig. 19



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

Fig. 20A

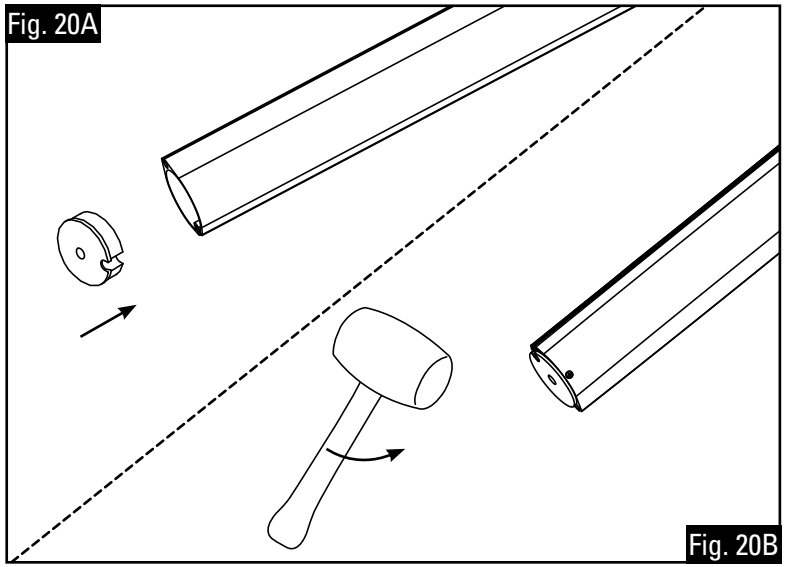
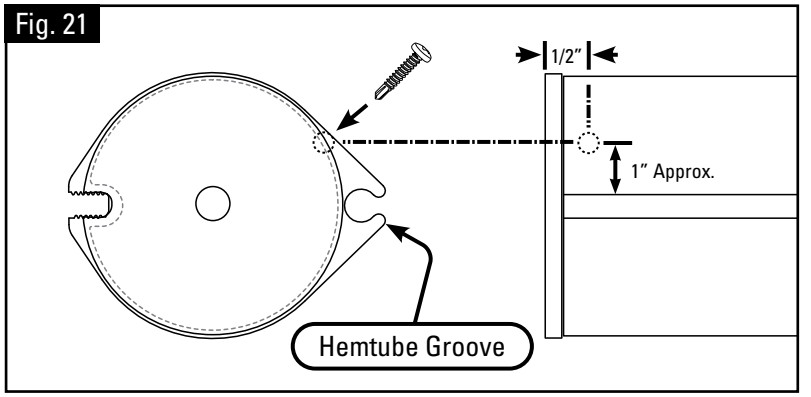


Fig. 20B

Step 11: Insert the plastic Flanged End Cap into the 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).

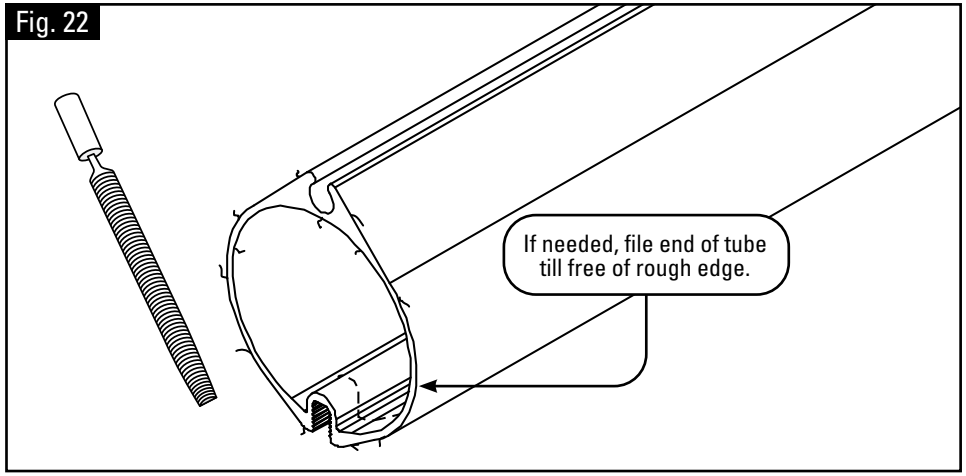
Step 12: Use a 3/4" Self-Drilling Screw and secure the Flanged End Cap in the Roller Tube. Insert the screw approximately 1/2" from the end of the End Cap and approximately 1" up from the Hemtube Groove on the Roller Tube (Fig. 21).
Note: Secure roller tube on flat surface.

Fig. 21



Roller Drive End Cap Assembly

Fig. 22



Step 13: On the other side of the roller tube, if needed, file the edges to smooth out end of tube and provide a better fit for the end cap (Fig. 22).

Fig. 23A

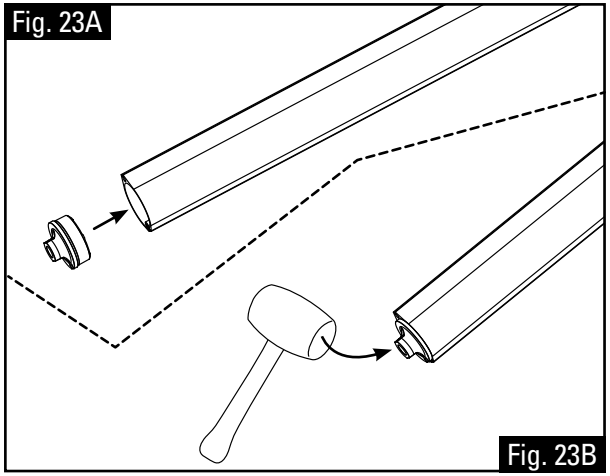
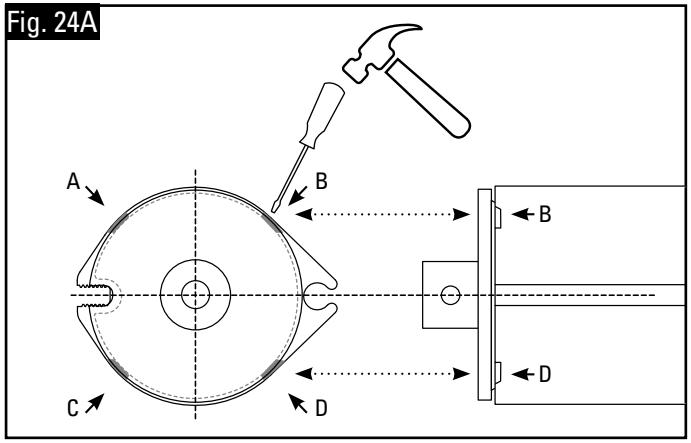


Fig. 23B

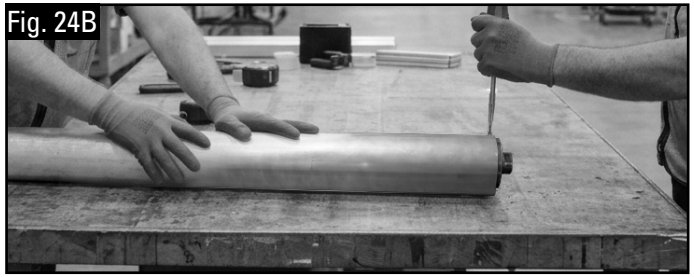
Step 14:
Insert end cap into roller tube. Use a rubber mallet to tap the edges of the end cap lightly to ensure that it has been seated properly (Fig. 23A & B).

Fig. 24A



Step 15: To secure the end cap in the roller tube, make four (4 - A, B, C & D) indentations or dimples to hold the end cap in place. Use a heavy metal hammer and screwdriver to make the dimples (Fig. 24A).

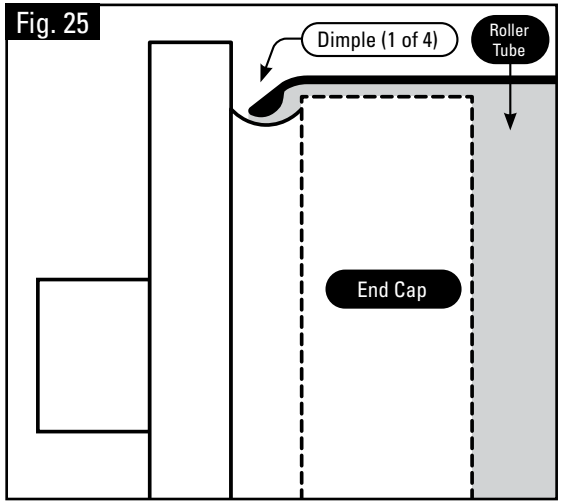
Fig. 24B



Note: Secure the roller tube before dimpling the end of the tube. Have someone hold the roller tube still on a flat surface during the procedure (Fig. 24B).

Dimple detail (Fig. 25).

Fig. 25



Installing the Roller Tube & Electric Motor

Step 16: See the diagram for roller tube insertion into housing (Fig. 26).

Fig. 26

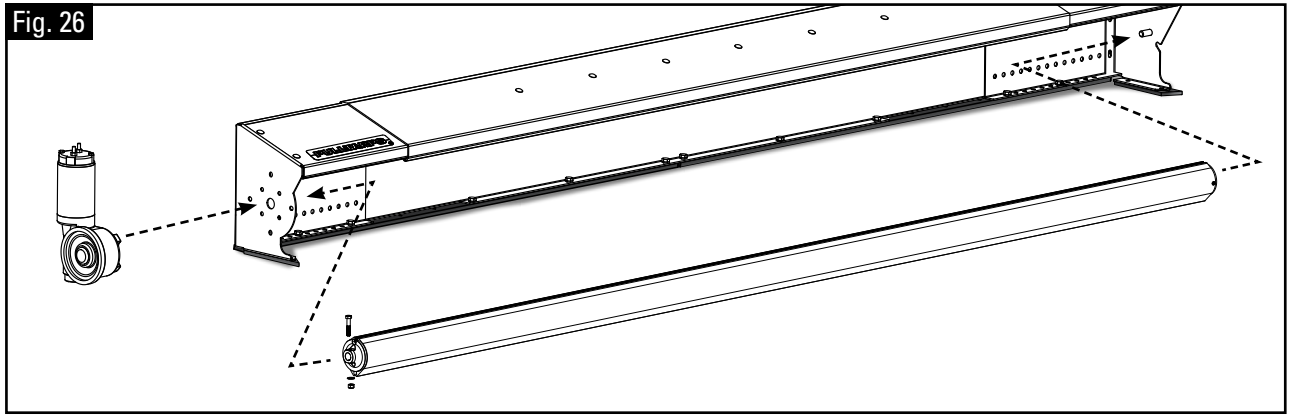


Fig. 27A

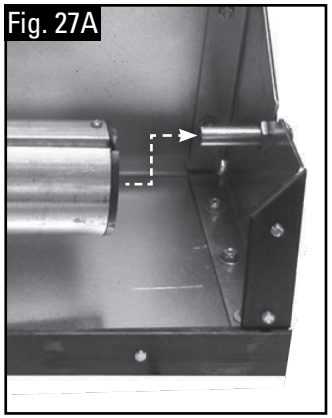
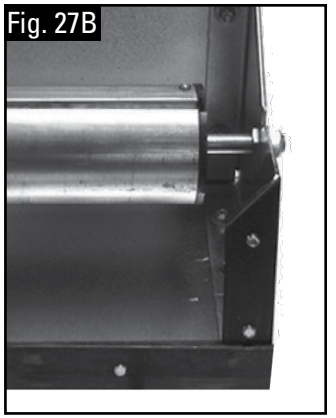


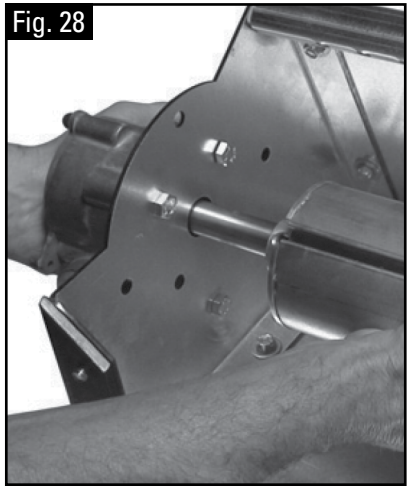
Fig. 27B



Step 17: Insert the flanged end cap onto the end plate stud (Fig. 27A & B).

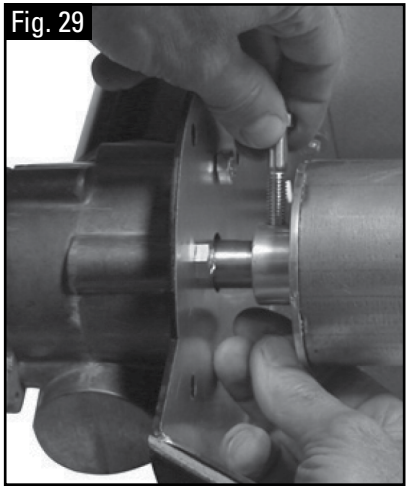
Step 18: Move motor into position and insert motor shaft into roller tube end cap (Fig. 28).

Fig. 28



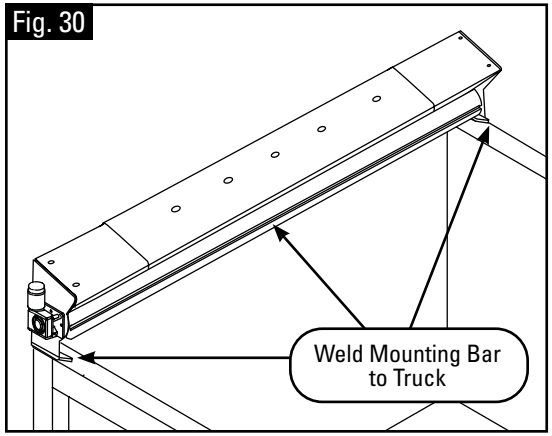
Step 19: Secure roller tube to electric motor with provided hardware (Fig. 29).

Fig. 29



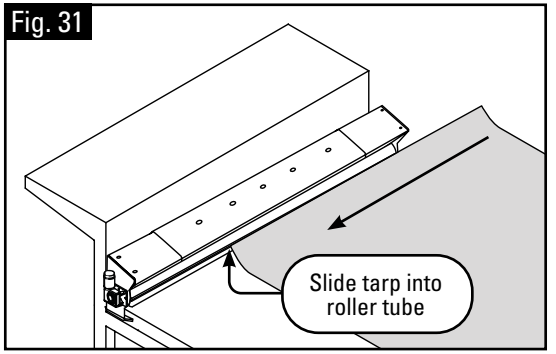
Step 20: Stitch weld system mounting bar every 6" to truck (Fig. 30).

Fig. 30



Note: If you'd prefer to bolt your housing system to the truck body, please see instructions 607-0156 / Bolt-On Mounting System.

Fig. 31



Step 21: 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. 31).
Note: To install Flap Tarps, see Flap Tarps installation guide at https://www.pulltarps.com/resources/technical-documents/