



1404 N. Marshall Ave. El Cajon CA. 92020

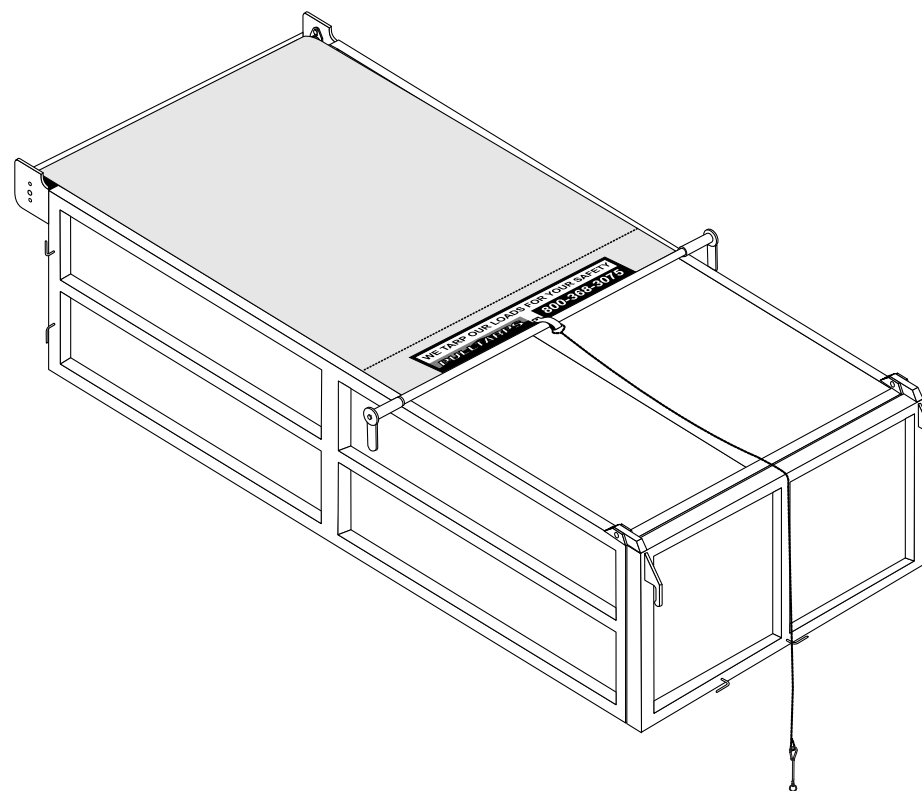
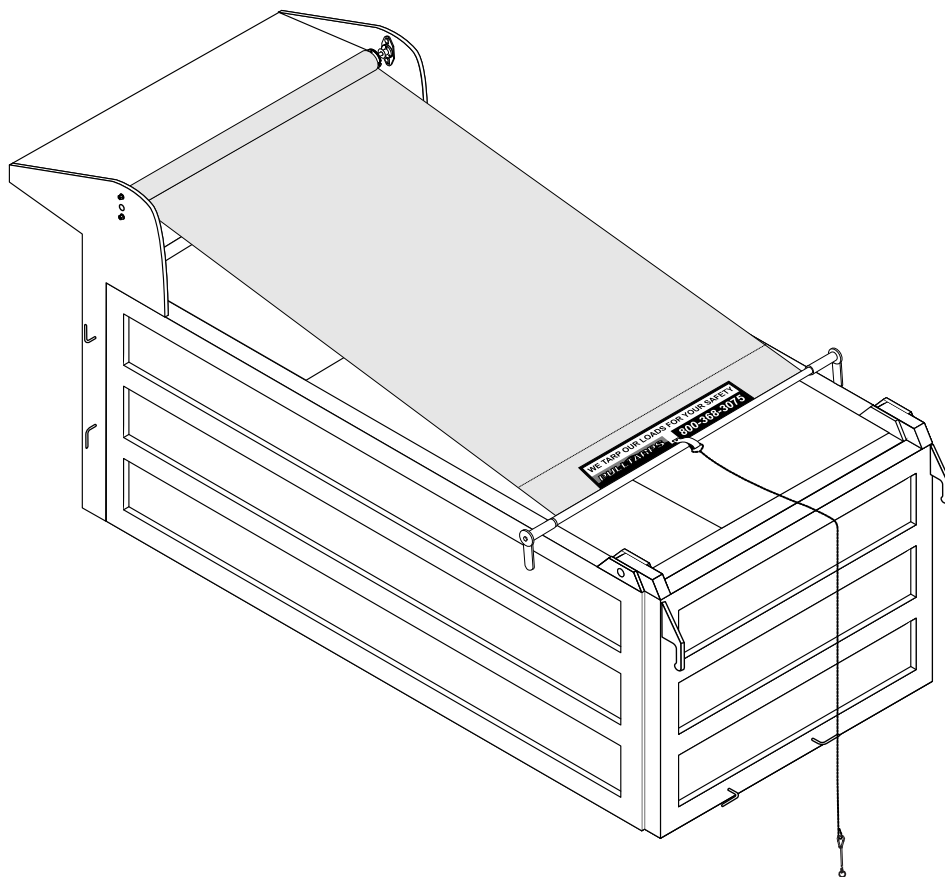
## Core Systems Installation Instructions



185-3017

185-3018

185-3517



607-0149

WLH 09/17/18

For technical support call us at (877) 861-6265 or visit our website at [Pulltarps.com](http://Pulltarps.com).



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## Core Systems Installation Instructions



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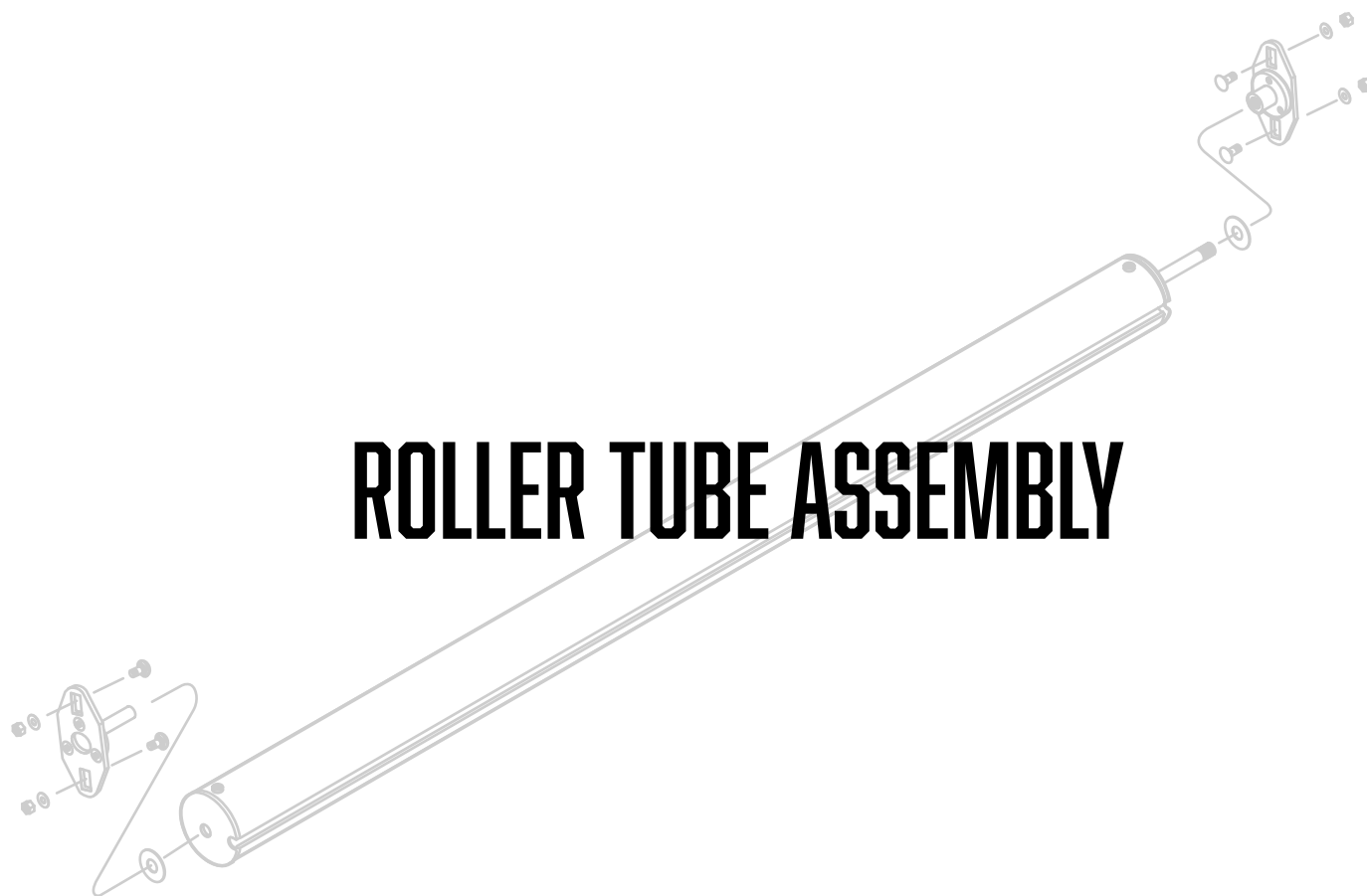
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## Core Systems - Roller Tube Installation Instructions

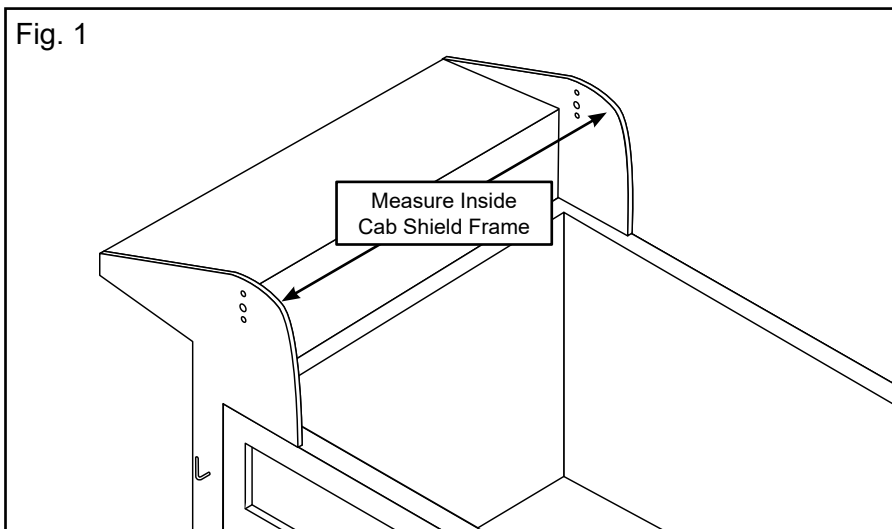


# ROLLER TUBE ASSEMBLY

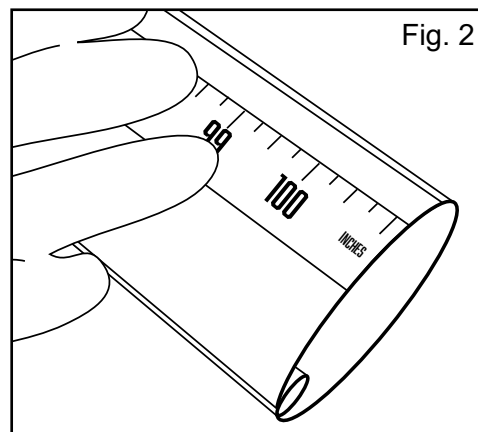
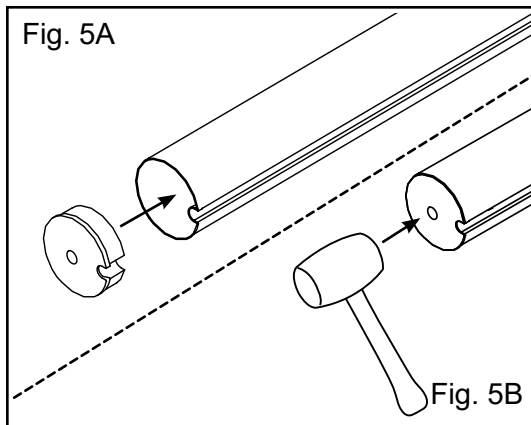
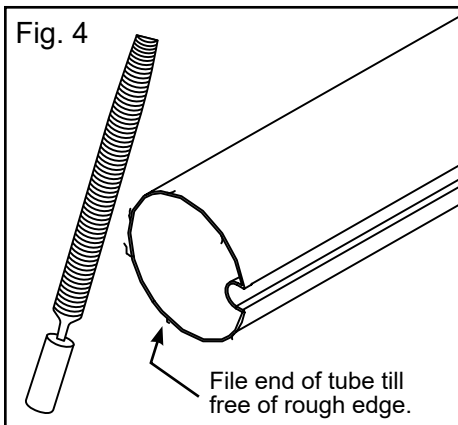


### Roller Tube Assembly

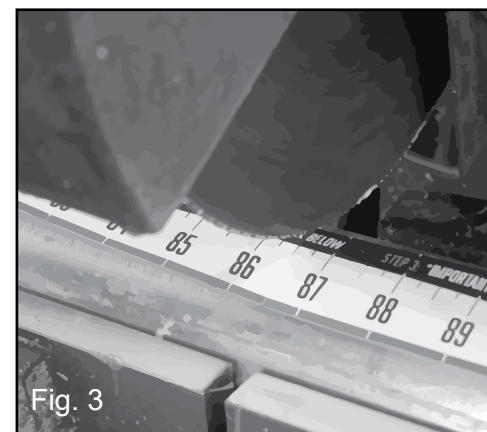
**Step 1:** Measure the inside of your cab shield frame to get the width. This will give you the correct length to cut the roller tube (Fig. 1).



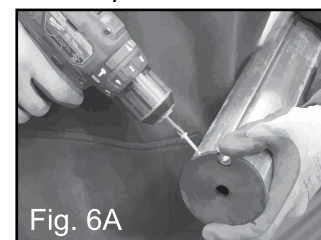
**Step 3:** After you've cut the Roller Tube to the desired length, use a metal file to remove metal fragments (Fig. 4).



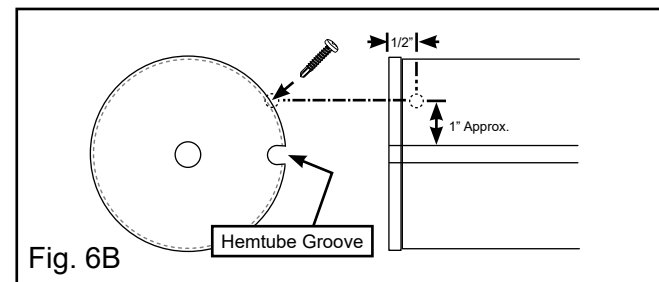
**Step 2:** Locate the cab shield measurement tape on the Roller Tube (Fig. 2) and cut the desired length (Fig. 3). NOTE: Please cut the end as straight as possible.



**Step 5:** Use a 3/4" Self-Drilling Screw and secure End Cap in the Roller Tube (Fig. 6A). To secure,



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. 6B).





### Roller Tube Assembly

**Step 6:** To install the Spring Shaft take the other end of the Roller Tube and insert the end of the Spring Shaft, with the Torq Block. Seat the Torq Block in the tube (Fig. 7A & 7B).

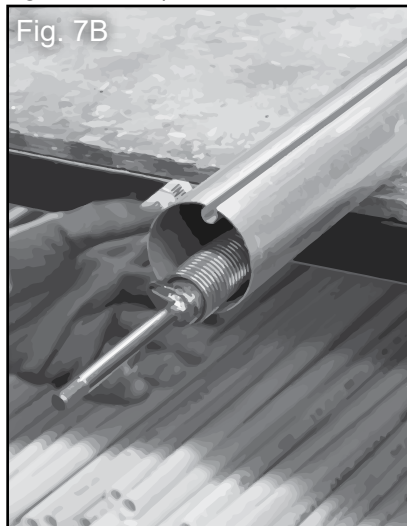
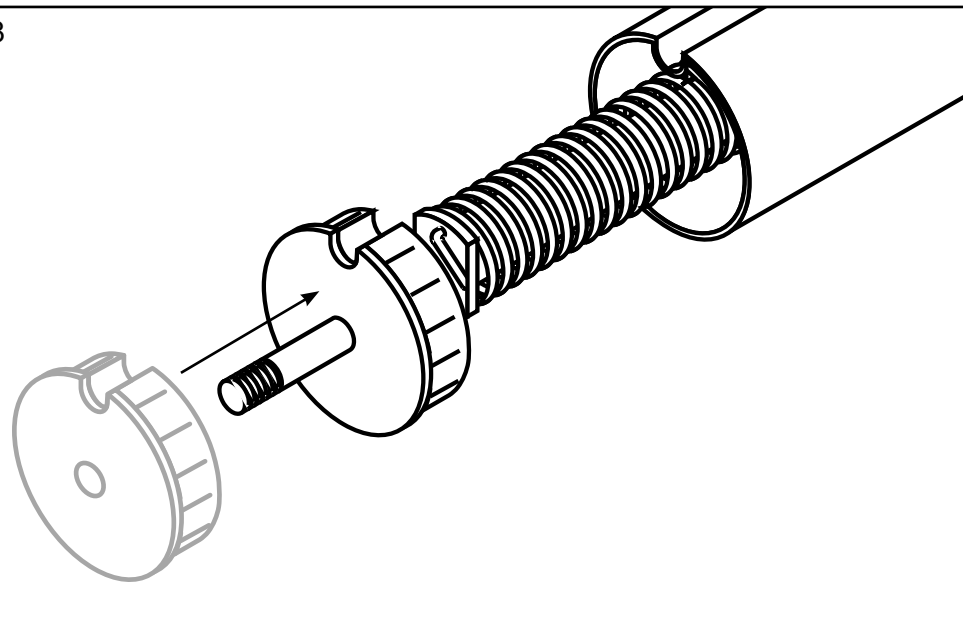


Fig. 8



**Step 7:** Place the End Cap on the Spring Shaft (Fig. 8).

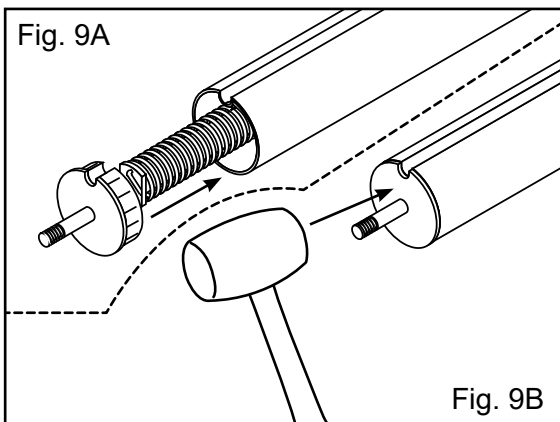


Fig. 9B

**Step 8:** Insert End Cap and Spring Shaft 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. 9A & 9B).

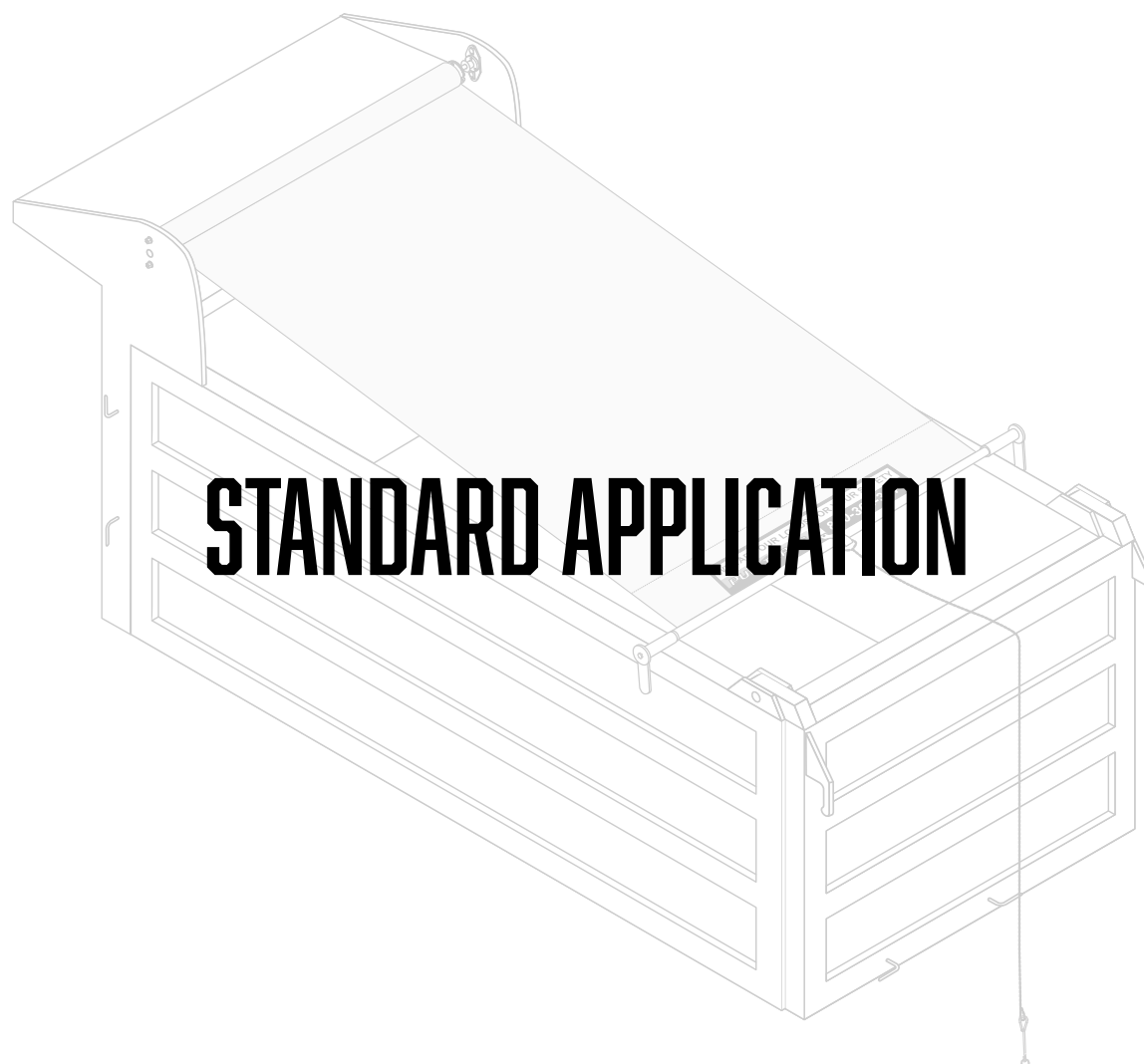


**Step 9:** Use a 3/4" Self-Drilling Screw and secure End Cap in the Roller Tube (Fig.10). Use the same instructions from Step 5.



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Core Systems - Standard  
Installation Instructions



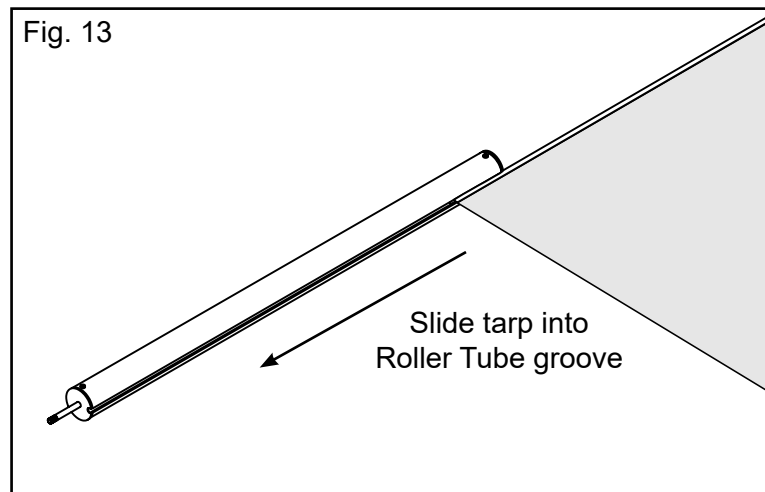
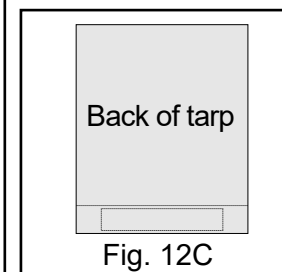
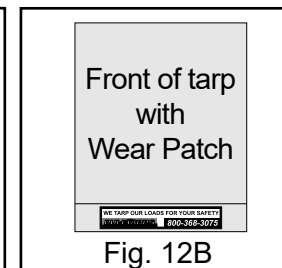
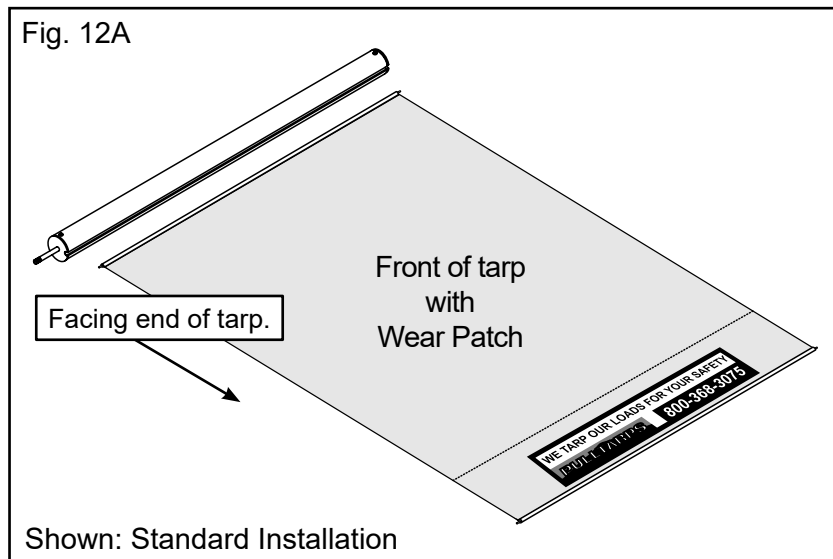
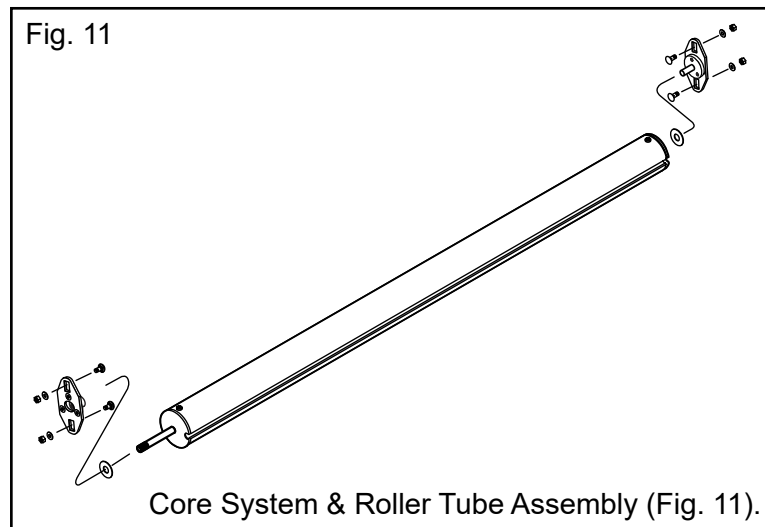


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## Core Systems - Standard Installation Instructions

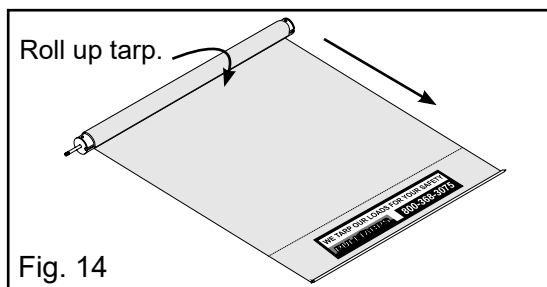


### Attaching Tarp to Roller Tube - Standard

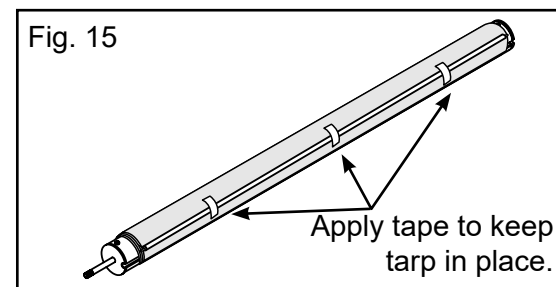


**Step 2:** Grab either end of the tarp and slide hemtube into the roller groove, until centered (Fig. 13).

**Step 1:** Place tarp on the ground or large table and unroll flat. The front of the tarp should be facing up, showing only the wearpatch logo (Fig. 12A-12C). At the opposite end of the wearpatch, place the roller tube on the ground with the roller tube spring assembly end on right side, facing the end with the wear patch.  
NOTE: Do not attach the Pullbar at this time.



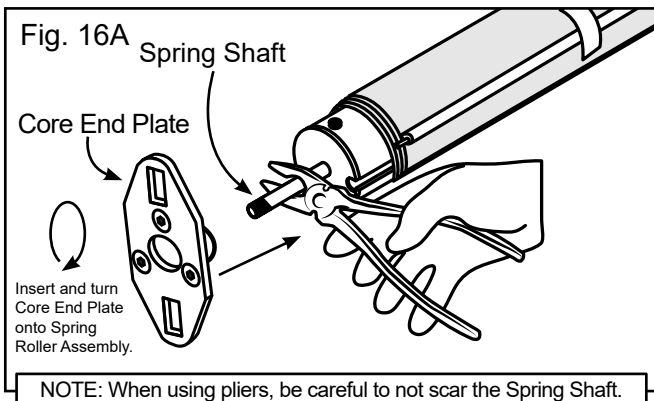
**Step 3:** Roll tarp on Roller Tube, keeping tarp centered (Fig. 14).



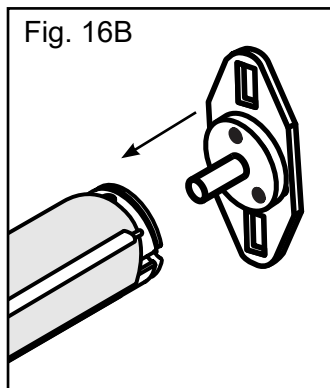
**Step 4:** Once tarp is rolled up, use duct tape to hold tarp in place (Fig. 15).



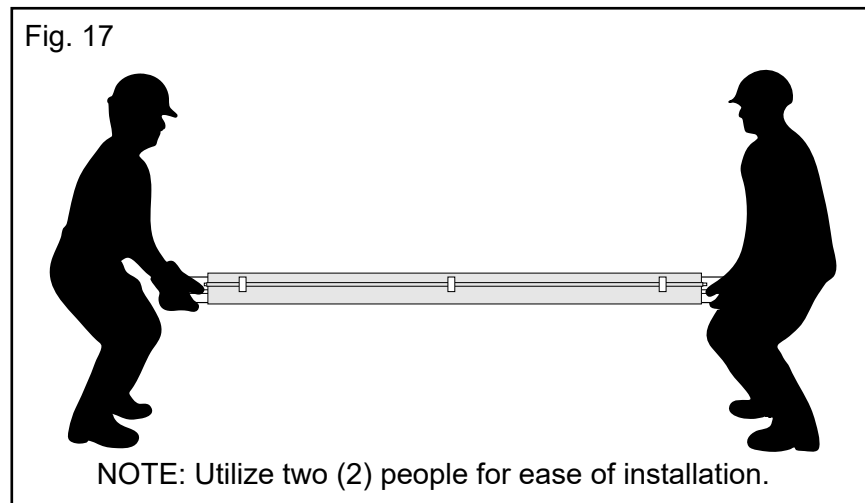
### Installing Roller Tube, Adding Spring Tension & Attaching Pullrod



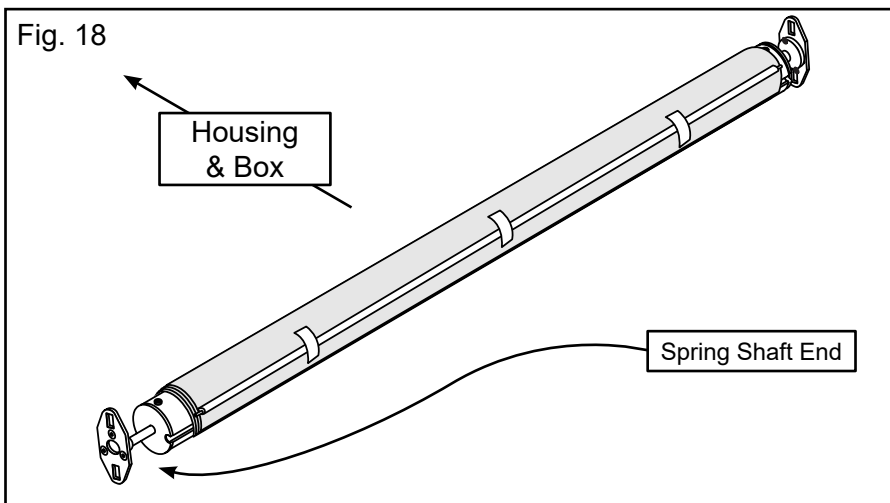
**Step 5A:** With roller tube secured, attached the Core End Plate to the Spring Shaft End and rotate until tight. For best results, hold the Spring Shaft with pliers (Fig 16A).



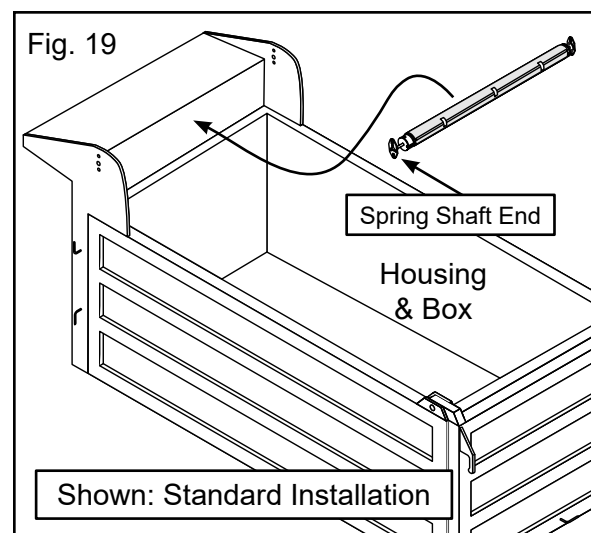
**Step 5B:** Next, insert the Universal Bolt Stud on the female side of the Roller Tube (Fig. 16B).



**Step 6:** Once the tarp is securely taped, lift the roller tube up and prepare to install in housing brackets (Fig. 17).



**Step 7:** Make sure the Spring Shaft End is on the left side facing the back of the Cab Shield. (Fig. 18).

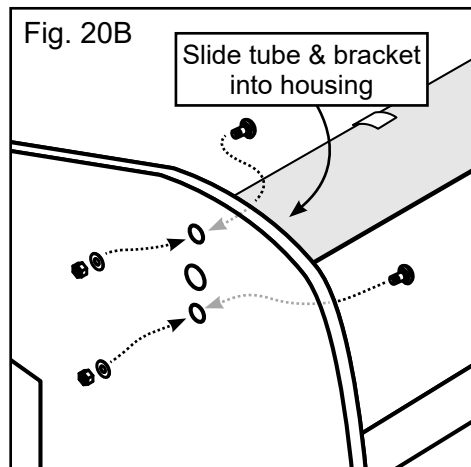
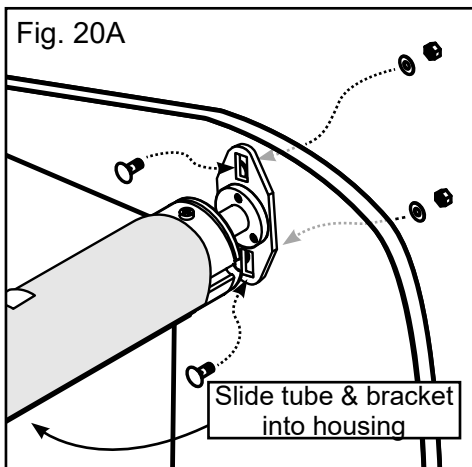


**Step 8:** With both team members holding the roller tube, position in front of housing (Fig. 19).

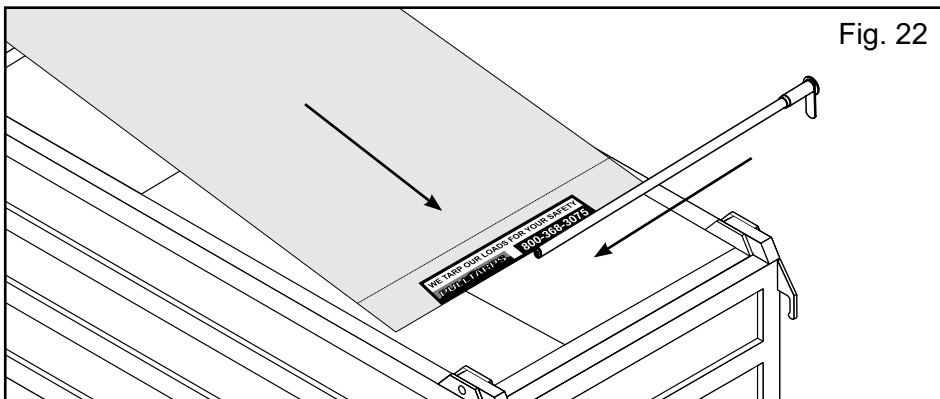




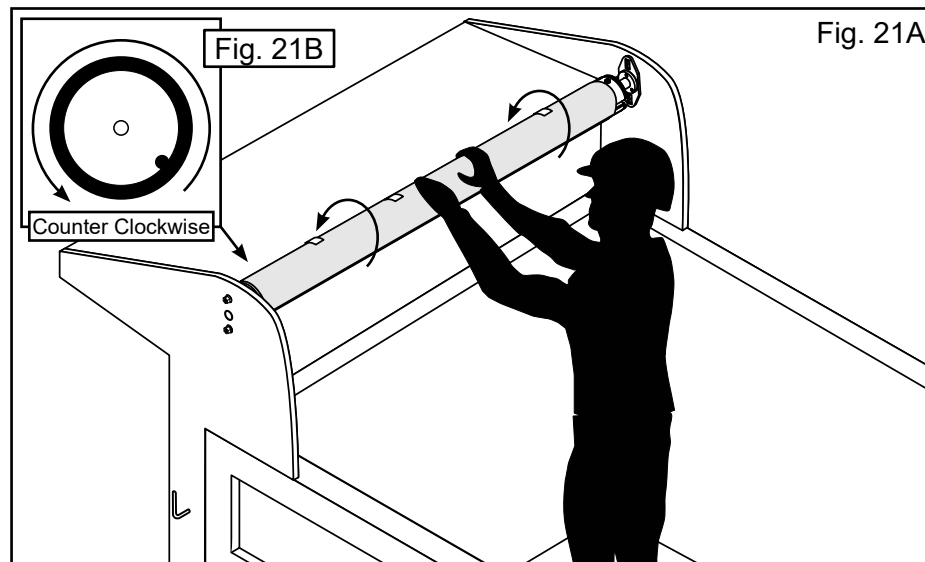
### Installing Roller Tube, Adding Spring Tension & Attaching Pullrod



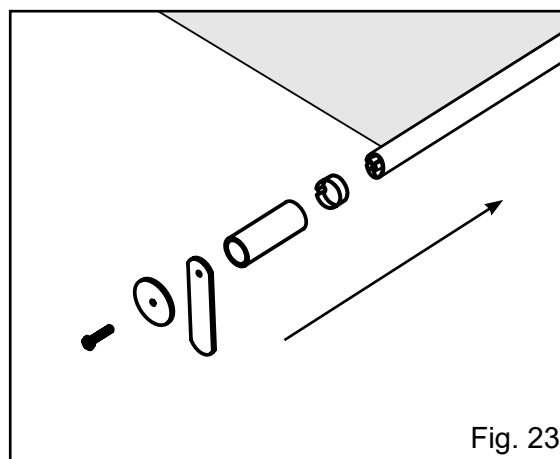
**Step 9:** Insert male end and bracket into housing, then insert carriage bolt and fasten with washer and nylock nut. Repeat same process on female end of tube (Fig. 20A & B).



**Step 11:** With one team member holding wound up roller tube, untape tarp and slide out let out small section of tarp. The other person will slide the pullrod onto the tarp. Make sure hemtube fits in slot (Fig. 22).  
NOTE: Use WD-40 to lubricate pullrod groove.



**Step 10:** While holding roller tube tightly, begin rolling tube and tarp in the direction of the container/box. Wind the roller tube a minimum of 15 times to increase the spring tension in roller tube (Fig. 21A & 21B).



**Step 12:** With the tarp installed, now install the Pullrod Hardware kit (Fig. 23).



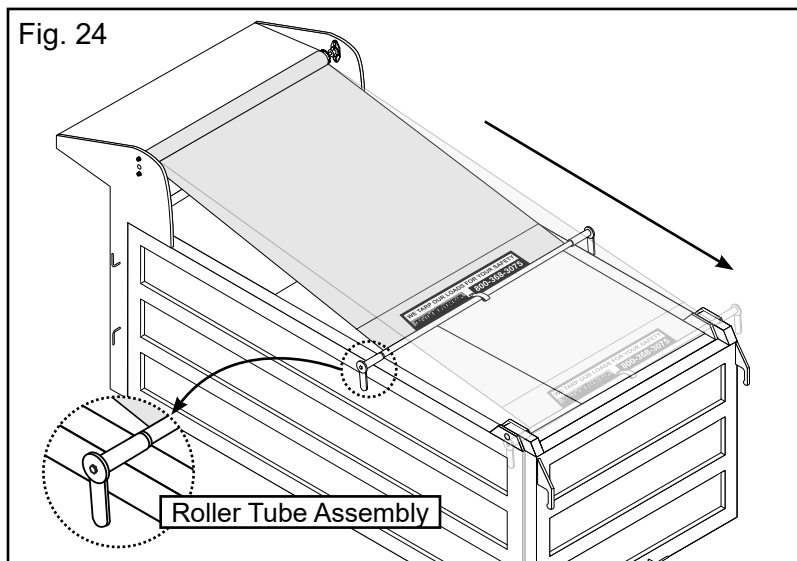
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## Core Systems - Standard Installation Instructions



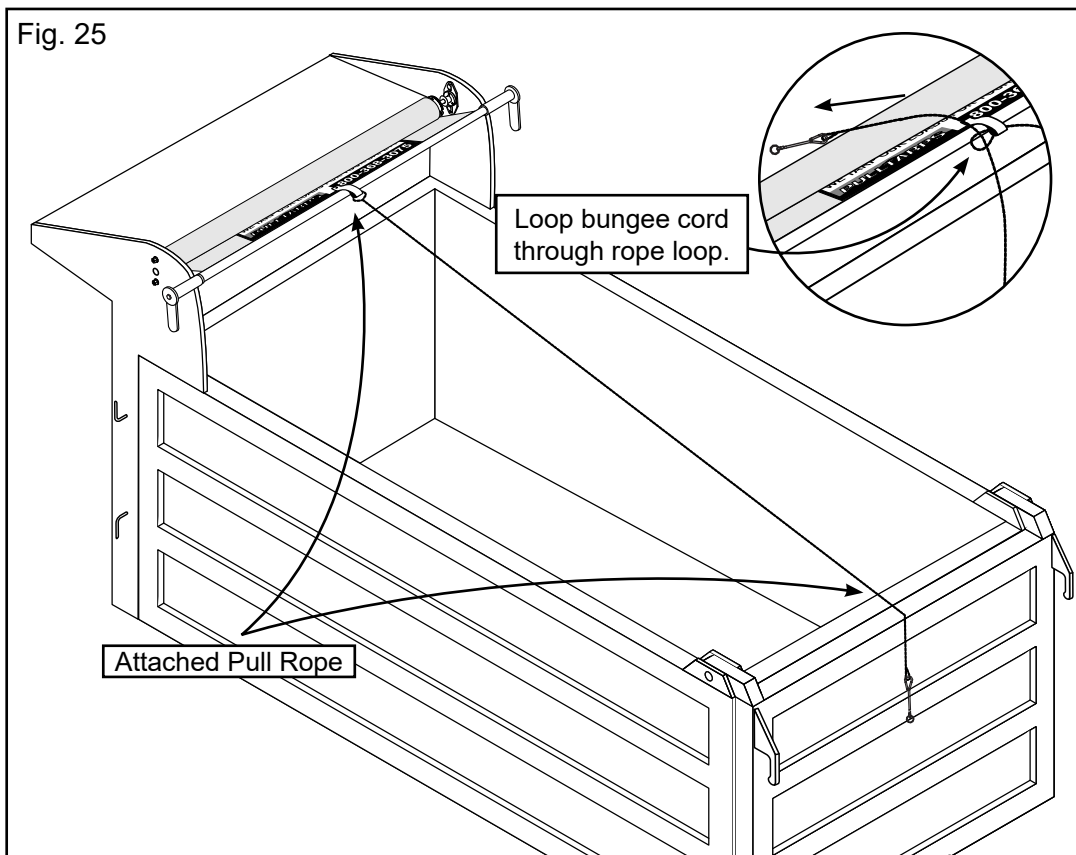
### Adding Pull Rope

Fig. 24



**Step 13:** With a team member on each side, hold the roller tube assembly and extend tarp fully, to test the spring tension. Add additional turns if needed (Fig. 24).

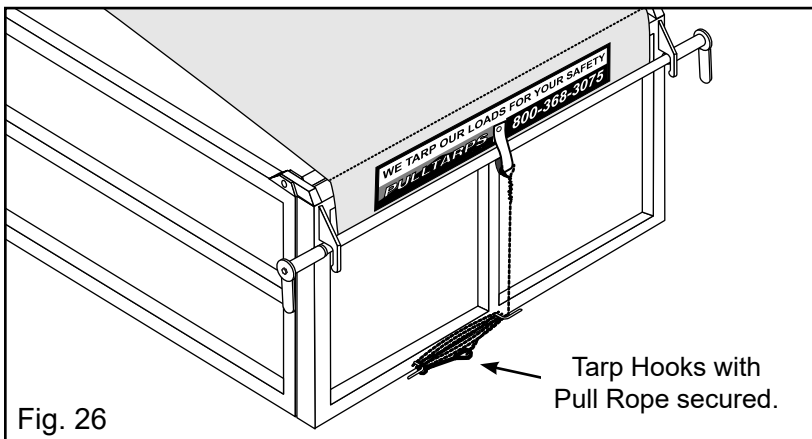
Fig. 25



**Step 14:** Return pullrod to housing bracket groove. Attach the pull rope to the pullrod strap. Pull the pull rope loop through the pullrod strap and then thread the other end of the pull rope, with the rope hook ring, through the look until tight. Extend rope over box and hang off back (Fig. 25).

**Step 15:** Pull the tarp over end of box, then with an overlapping motion, wrap the pull rope on the rope hooks and secure with bungee cord ring on to rope hooks (Fig. 26).

Fig. 26





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Core Systems - Over The Top  
Installation Instructions





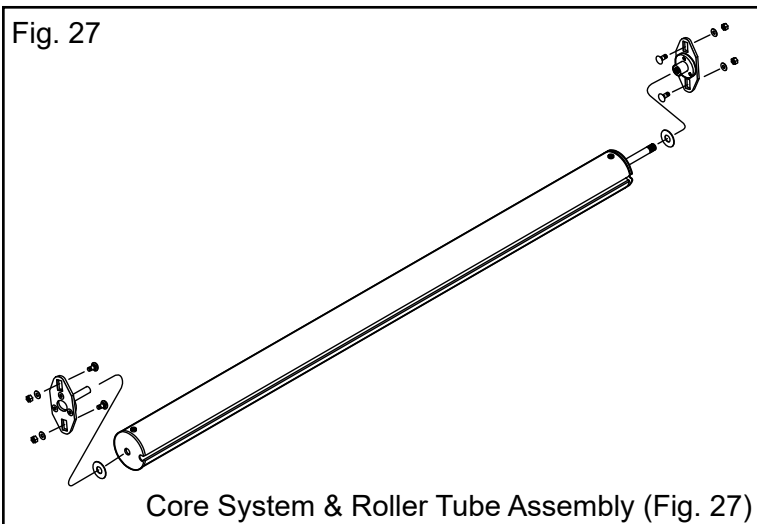
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## Core Systems Installation Instructions



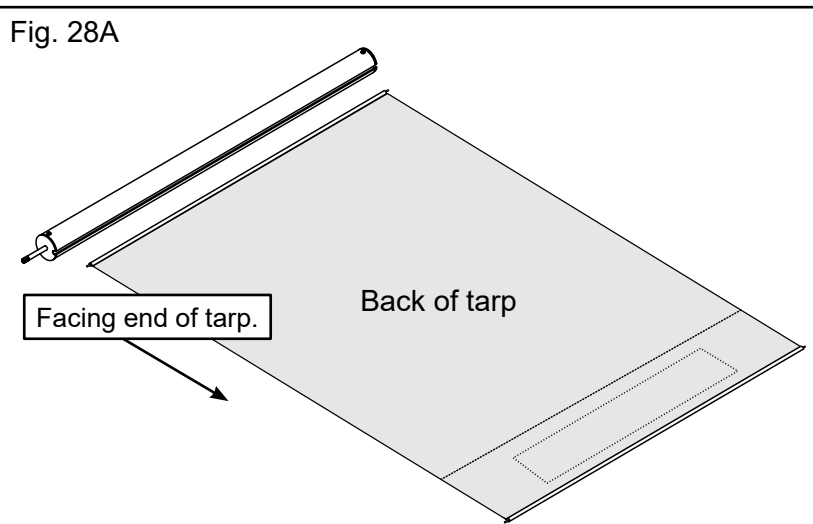
### Attaching Tarp to Roller Tube Assembly - Over The Top

Fig. 27



Core System & Roller Tube Assembly (Fig. 27)

Fig. 28A



Shown: Over the Top Installation

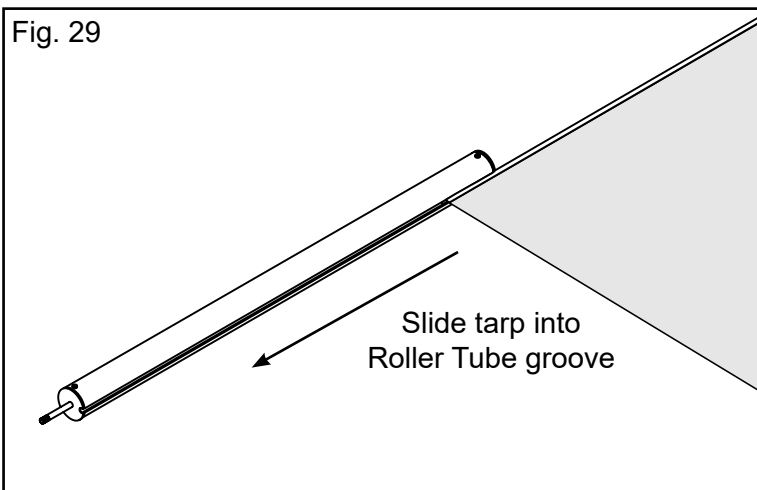
Front of tarp  
with  
Wear Patch

Fig. 28B

Back of tarp

Fig. 28C

Fig. 29



**Step 1:** Place tarp on the ground or large table and unroll flat. The back of the tarp should be facing up, showing only the Wear Patch stitching (Fig. 28A - 28C). At the opposite end of the wearpatch, place the roller tube on the ground with the roller tube spring assembly end on right side, facing the end with the wear patch.  
**NOTE:** Do not attach the Pullbar at this time.

Roll up tarp.

Fig. 30

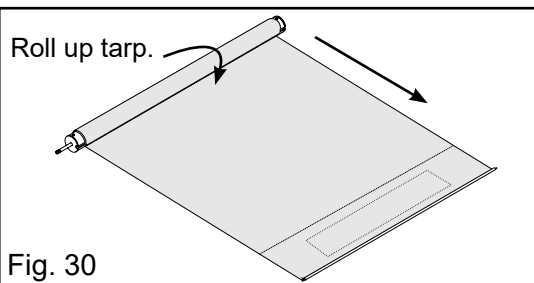
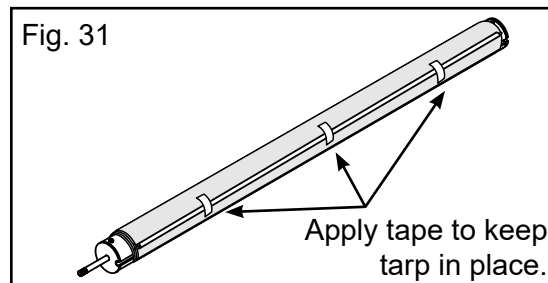


Fig. 31



**Step 2:** Grab either end of the tarp and slide hemtube into the roller groove, until centered (Fig. 29).

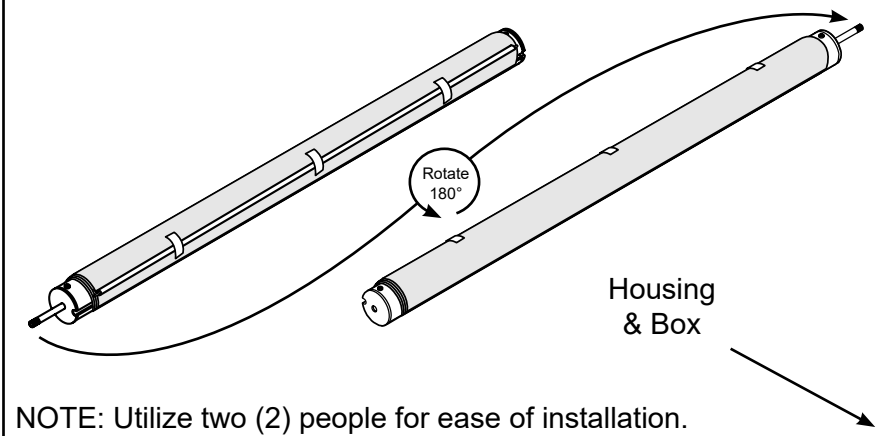
**Step 3:** Roll tarp on Roller Tube, keeping tarp centered (Fig. 30).

**Step 4:** Once tarp is rolled up, use duct tape to hold tarp in place (Fig. 31).



### Installing Roller Tube, Adding Spring Tension & Attaching Pullrod

Fig. 32



**Step 5:** Once the tarp is securely taped, lift and rotate the roller tube 180°, facing the system housing (Fig. 32).

Fig. 34

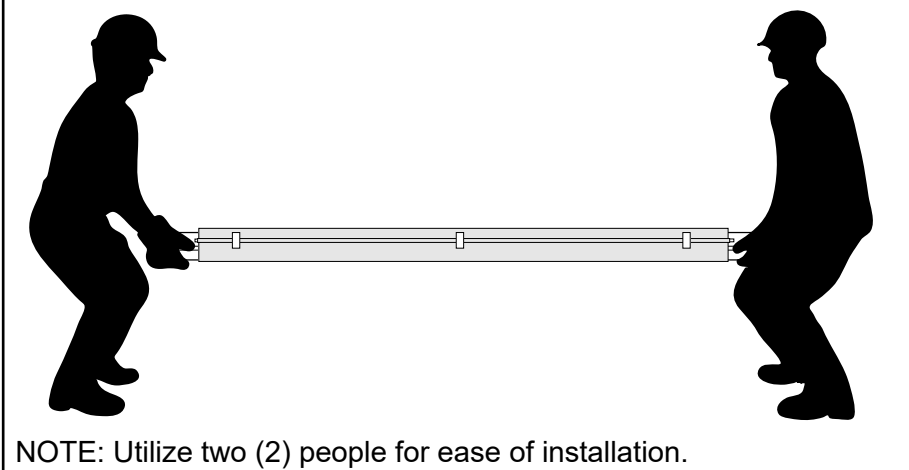
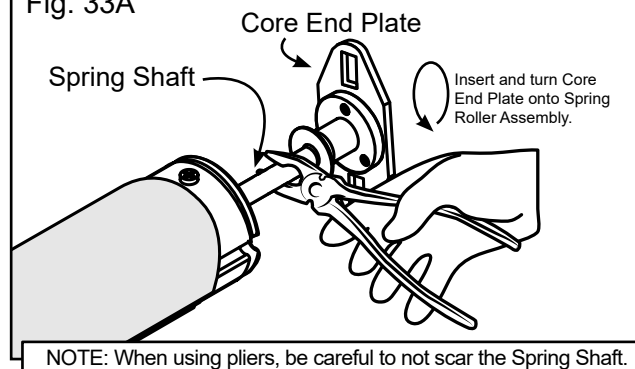
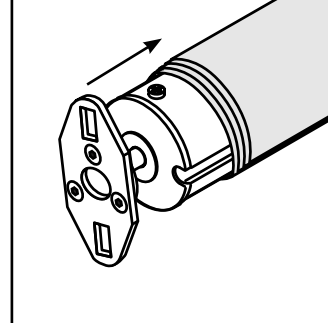


Fig. 33A



**Step 6A:** With roller tube on the ground and secured, attached the Core End Plate to the Shaft End and rotate until tight. For best results, hold the Spring Shaft with pliers (Fig. 33A).

Fig. 33B

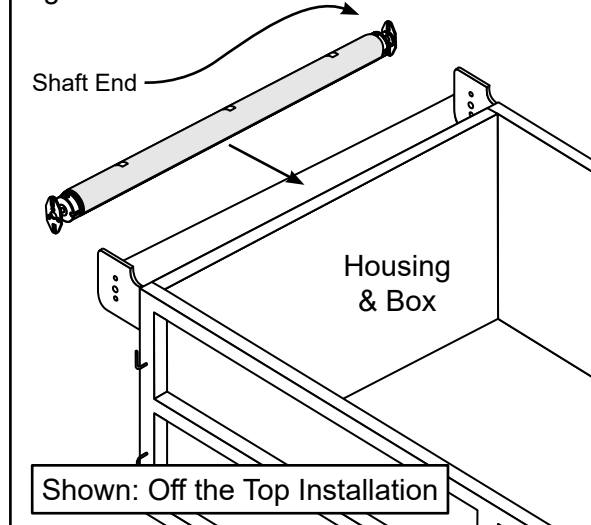


**Step 6B:** Next, insert the Universal Bolt Stud on the female side of the Roller Tube (Fig. 33B).

**Step 7:** With a team member, lift the roller tube up and prepare to install in housing brackets (Fig. 34).

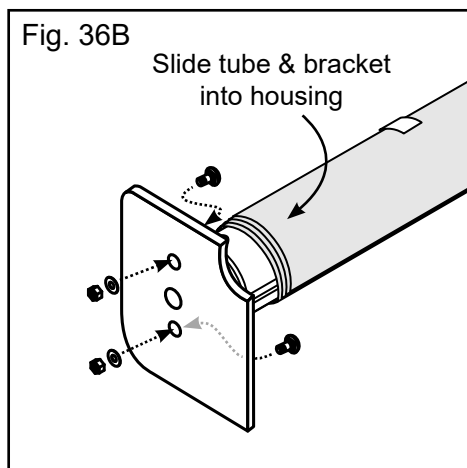
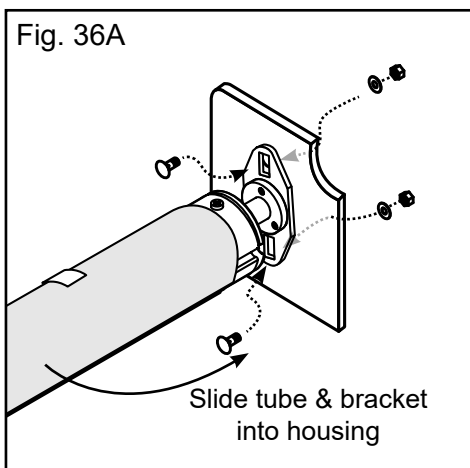
**Step 8:** With both team members holding the roller tube, position in front of housing (Fig. 35).

Fig. 35

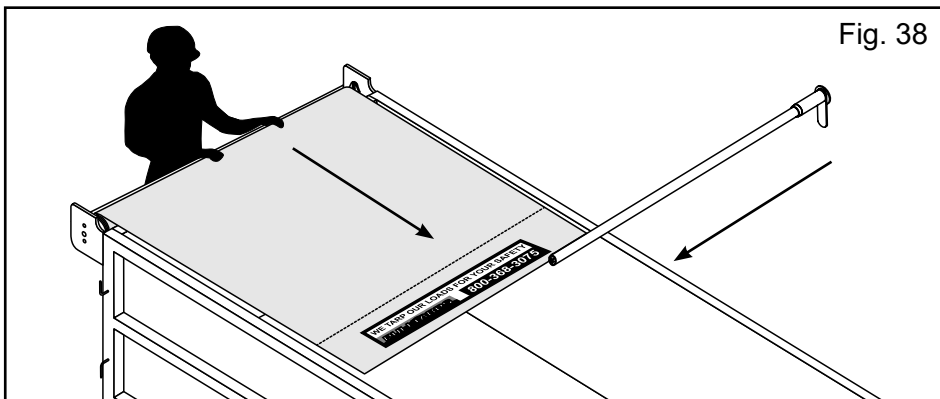




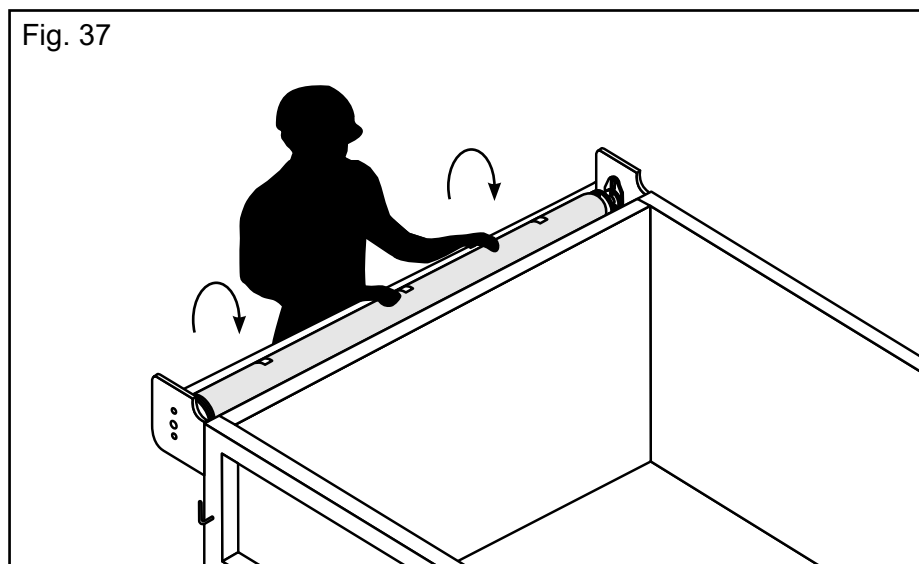
## Installing Roller Tube, Adding Spring Tension & Attaching Pullrod



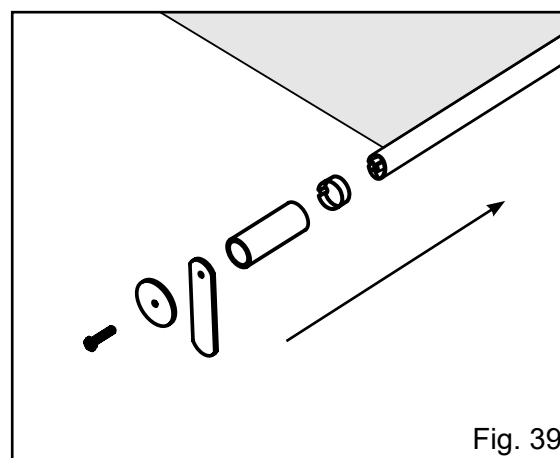
**Step 9:** Insert male end and bracket into housing, then insert carriage bolt and fasten with washer and nylock nut. Repeat the same process on female end of tube (Fig. 36A & 36B).



**Step 11:** With one team member holding wound up roller tube, untape tarp and slide out let out small section of tarp. The other person will slide the pullrod onto the tarp. Make sure hemtube fits in slot (Fig. 38).  
NOTE: Use WD-40 to lubricate pullbar groove.



**Step 10:** While holding roller tube tightly, begin rolling tube and tarp in the direction of the container/box. Wind the roller tube a minimum of 12 times to increase the spring tension in roller tube (Fig. 37).



**Step 12:** With the pullrod fully installed, now attached the Pullrod Hardware kit (Fig. 39).



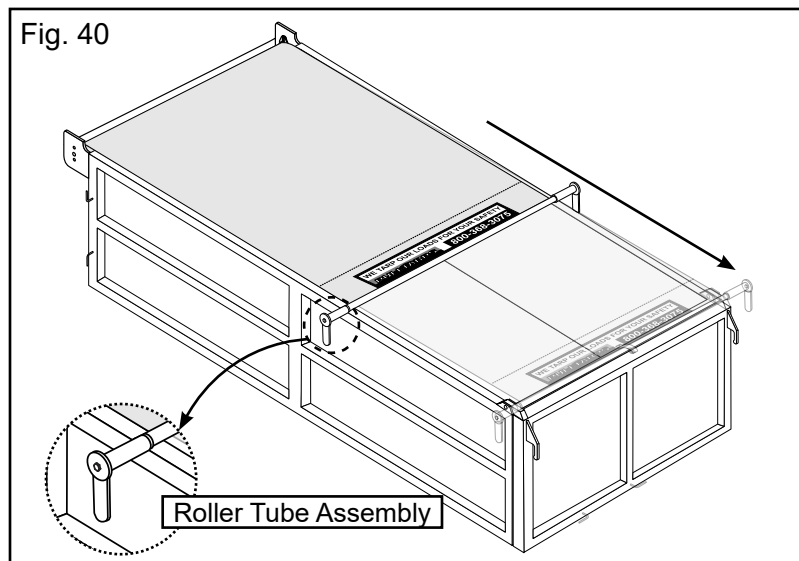
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## Core Systems Installation Instructions



### Adding Pull Rope

Fig. 40



**Step 13:** With a team member on each side, hold the roller tube assembly and extend tarp fully, to test the spring tension. Add additional turns if needed (Fig. 40).

Fig. 42

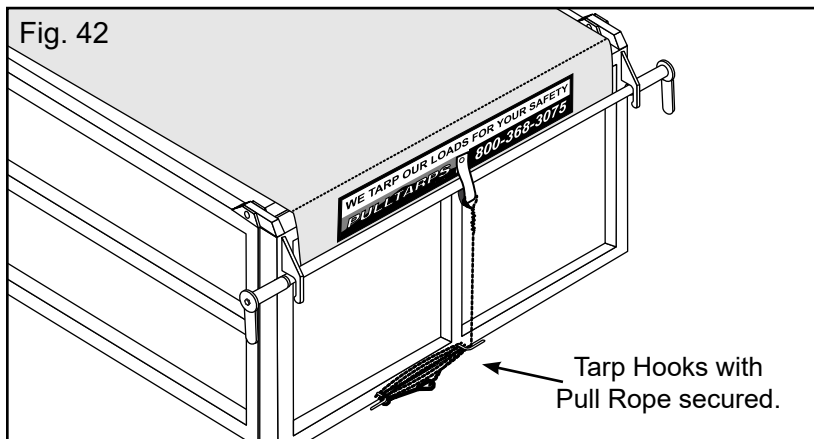
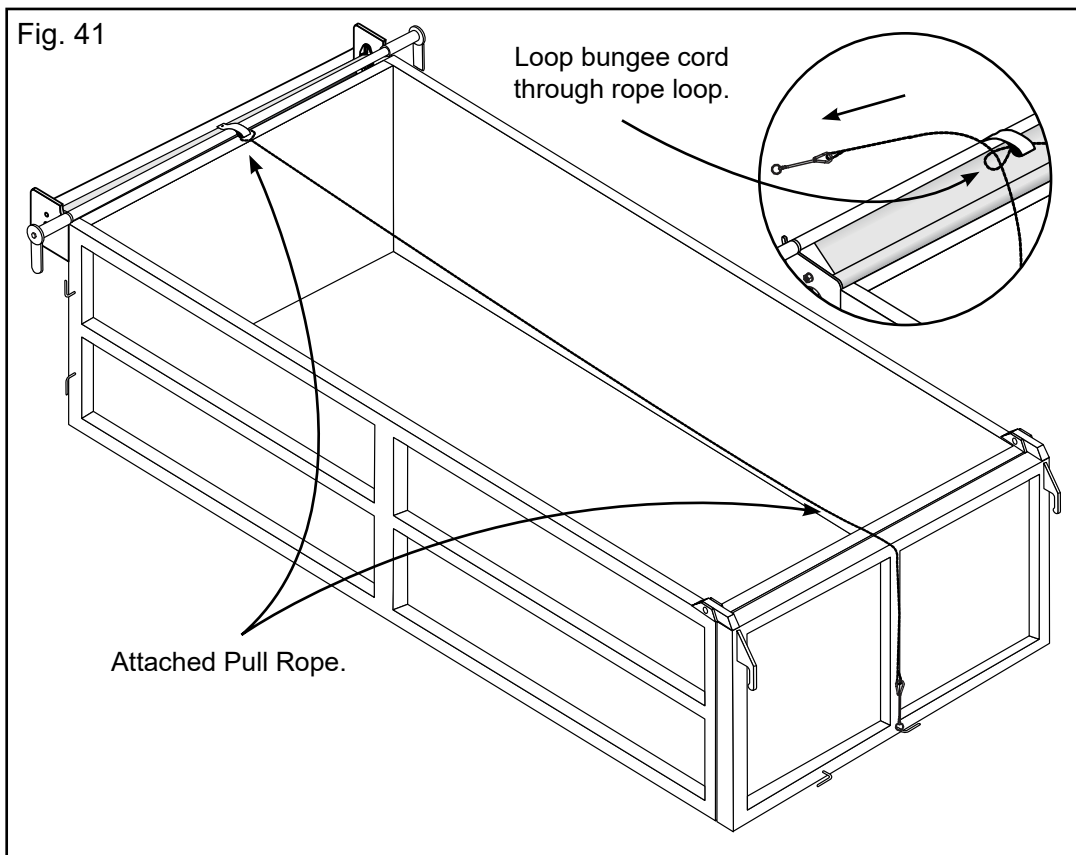


Fig. 41



**Step 14:** Return pullrod to housing bracket groove. Attach the pull rope to the pull-bar strap. Pull the pullrope loop through the pullrod strap and then thread the other end of the pull rope, with the rope hook ring, through the look until tight. Extend rope over box and hang off back (Fig. 41).

**Step 15:** Pull the tarp over end of box, then with an overlapping motion, wrap the pull rope on the rope hooks and secure with bungee cord ring on to rope hooks (Fig. 42).





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Core Systems  
Installation Instructions

A technical line drawing showing the installation of a flap tarp. The diagram illustrates a rectangular tarp with a flap on the left side. The flap is secured with a rope and hook system. The rope is attached to the tarp's edge and runs along the bottom, where it is connected to a series of hooks. The hooks are shown in a V-shape, suggesting they are used to secure the tarp to a structure or another tarp. The entire diagram is rendered in a light gray line style.

# FLAP TARP, ROPE & HOOK INSTALLATION






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## Core Systems Installation Instructions



### 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!**

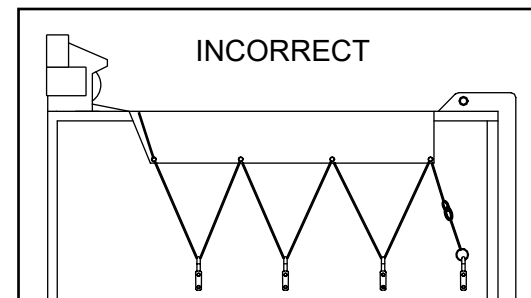
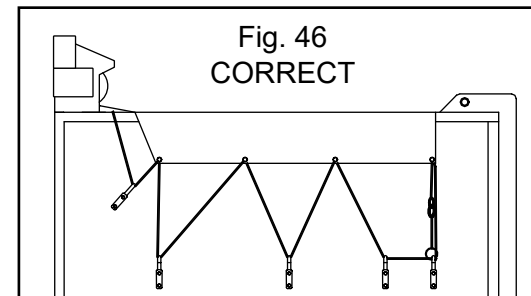
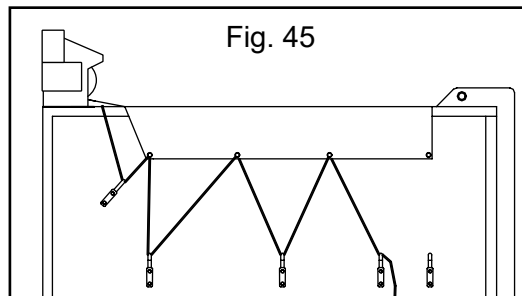
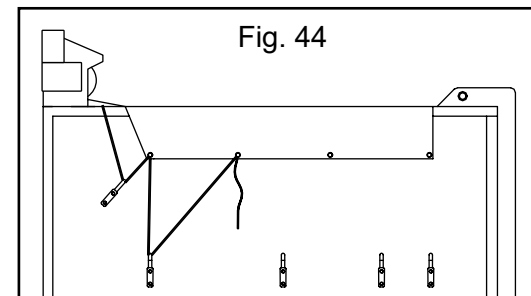
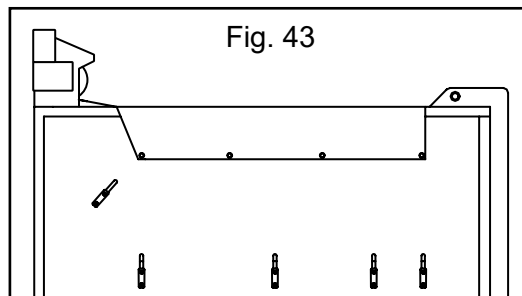
**Step 1:** Flip the braided rope over the corner so that the flaps and tie down ropes hang over each side of the box. The number of tie down hooks vary depending on the length of your tarp. One pull down hook is included with your Pulltarp system. If needed. Use the hook to pull the braided rope and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

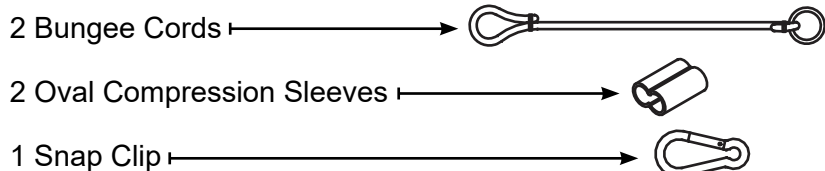
1. Position the first hook 6" (15.24cm) down and 12" (30.48cm) forward (toward the cab) from the first grommet (Fig. 43).
2. Position 2nd hook straight down from 1st grommet. This hook should be reached from ground (Fig. 44).
3. Place middle hooks equal distances from grommet (Fig. 45). These hooks should 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. 46).
5. Weld hooks in place.





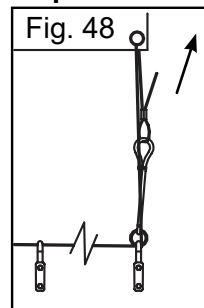
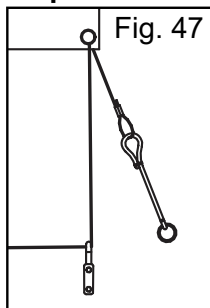
### Bungee Cord Installation

#### 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.

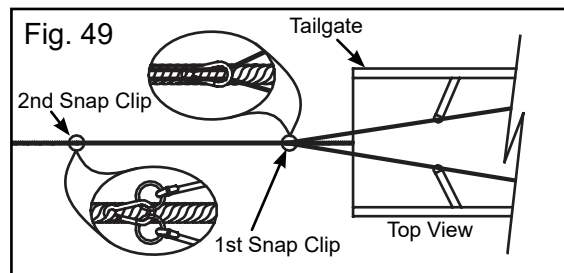
#### Tarps with Side Flaps



To tighten, pull loose end of rope through the Oval Compression Sleeve (Fig. 47). Stretch the bungee cord making sure all slack is taken out of the rope, crimp compression sleeve (Fig. 48). Be sure to keep flaps even on sides so Tie Down Ropes remain equal in length.

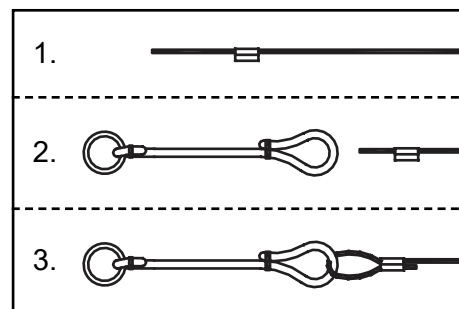
**Note:** Check for proper placement of rope through the last two hooks.

#### 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. 49).

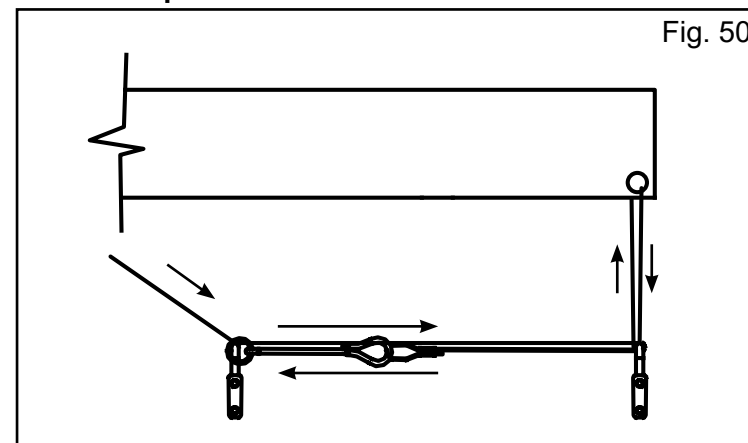
**Note:** First snap clip should not be used on long wheel base belly dumps.



#### 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

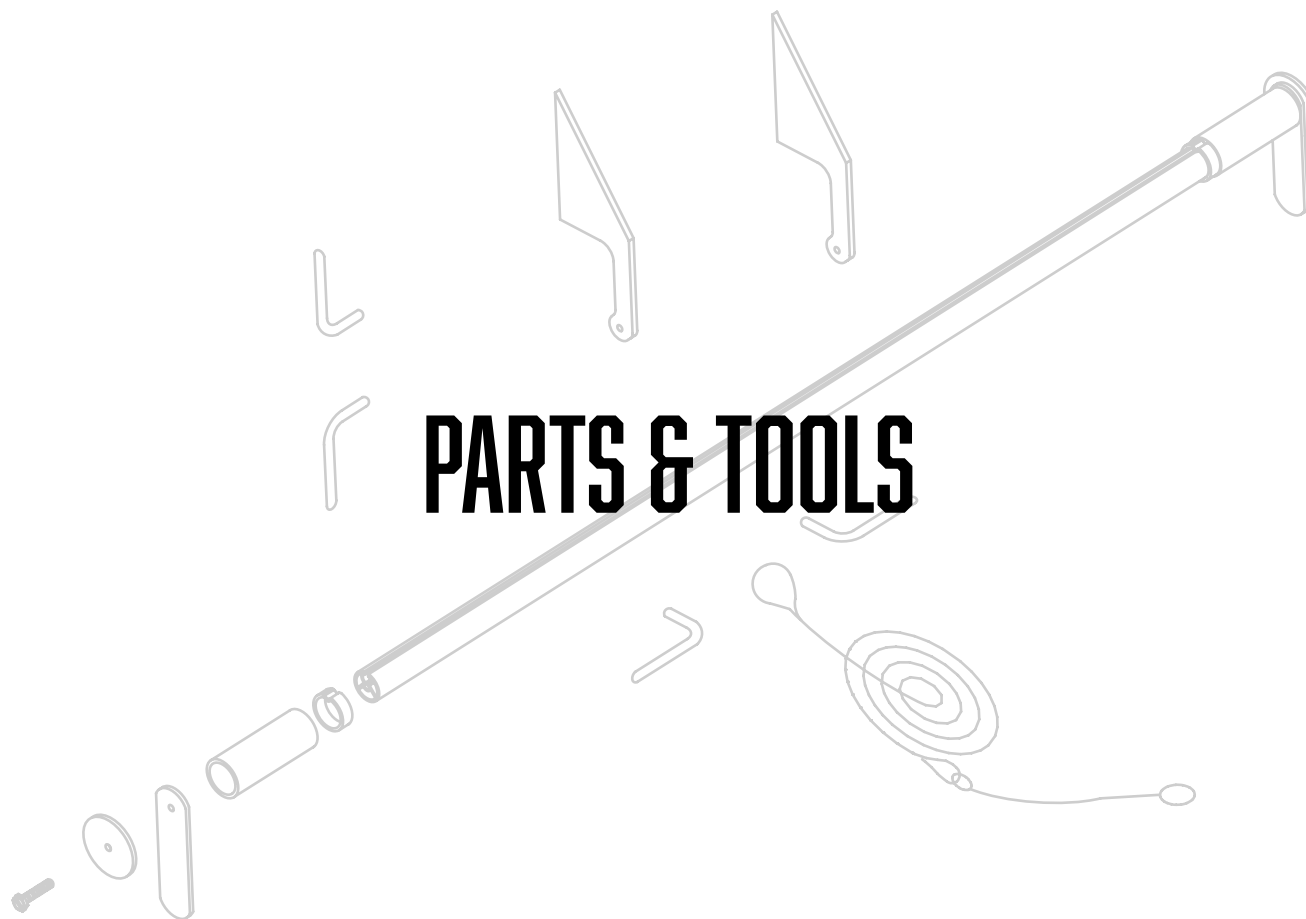


You may need extra rope to keep the side flap system ground operated. If your application requires extra rope, the slack needs to be taken up by a taching the end of the bungee cord to an alternate hook (Fig. 50).



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Core Systems  
Installation Instructions



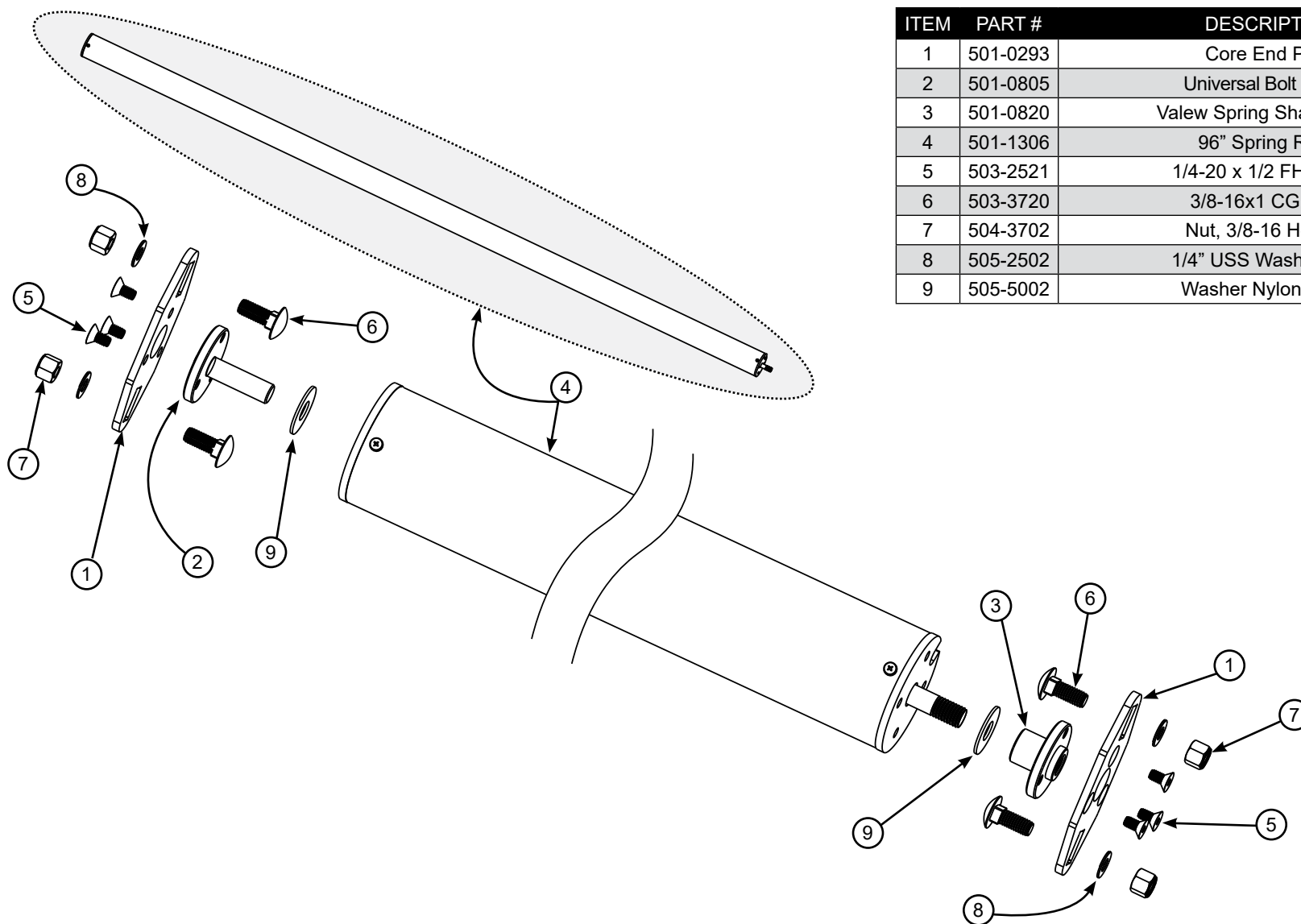


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## Core Systems Installation Instructions



### Core System 96"



ITEM	PART #	DESCRIPTION	QTY
1	501-0293	Core End Plate	2
2	501-0805	Universal Bolt in Stud	1
3	501-0820	Valew Spring Shaft Anchor	1
4	501-1306	96" Spring Roller	1
5	503-2521	1/4-20 x 1/2 FH Socket	6
6	503-3720	3/8-16x1 CGE Bolt	4
7	504-3702	Nut, 3/8-16 Hex Nut	4
8	505-2502	1/4" USS Washer 5/16"	4
9	505-5002	Washer Nylon .5ID X	2

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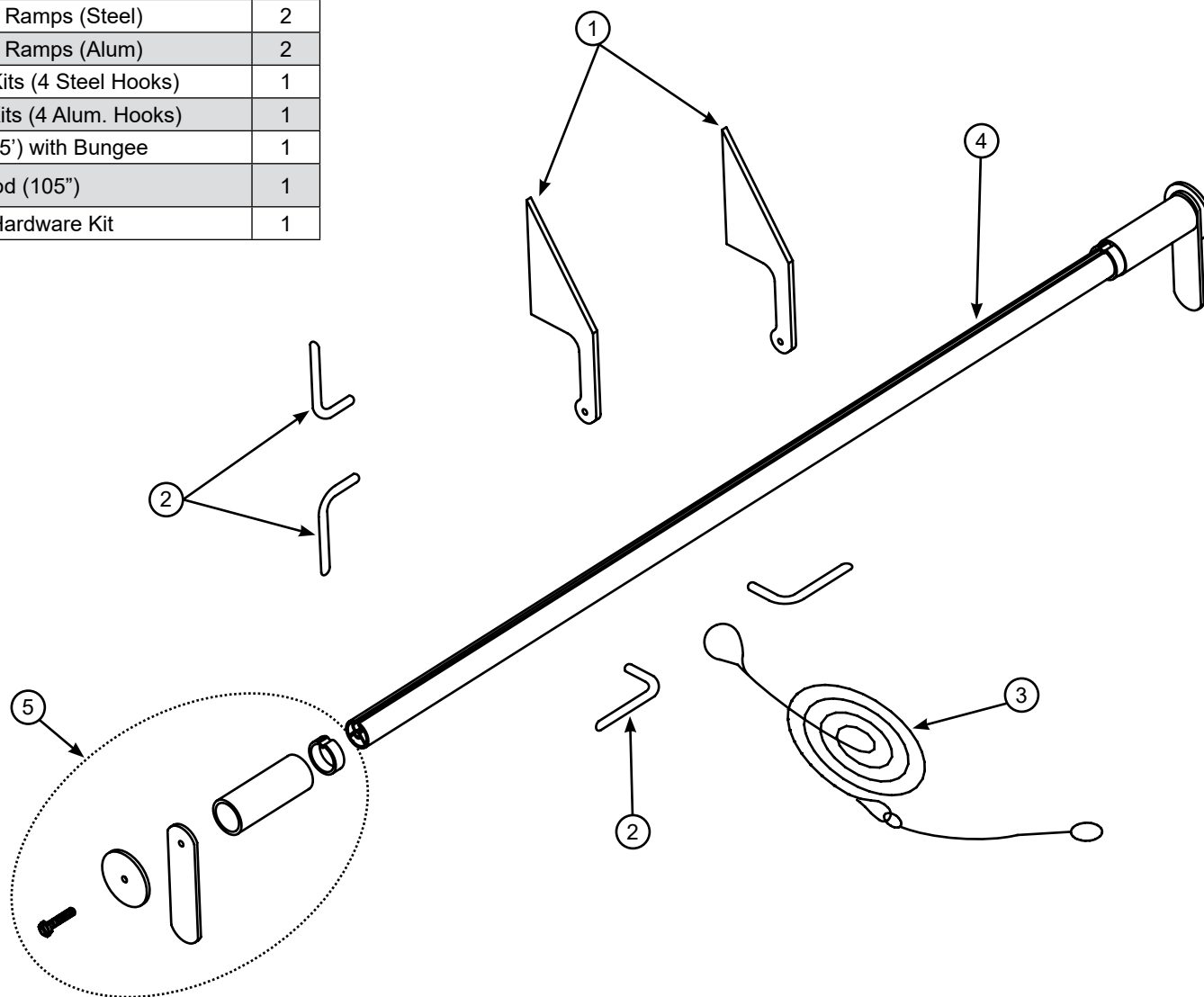
## Core Systems Installation Instructions



### Pullrod Hardware

ITEM	PART #	DESCRIPTION	QTY
1	501-0301	Tarp Return Ramps (Steel)	2
--	501-0302	Tarp Return Ramps (Alum)	2
2	501-0621	Rope Storage Kits (4 Steel Hooks)	1
--	501-0608	Rope Storage Kits (4 Alum. Hooks)	1
3	517-1006	Pull Rope (35') with Bungee	1
4	Determined by Length	Pullrod (105")	1
5	501-0612	Pullrod Hardware Kit	1

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## Core Systems Installation Instructions



### Required Tools

ITEM	DESCRIPTION	QTY
1	Power Drill	1
2	Adjustable Wrench	1
3	5/16" Wrench	1
4	Hack Saw or Circular Saw	1
5	Duct or Masking Tape	1
6	Rubber Malet	1
7	Metal File	1

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