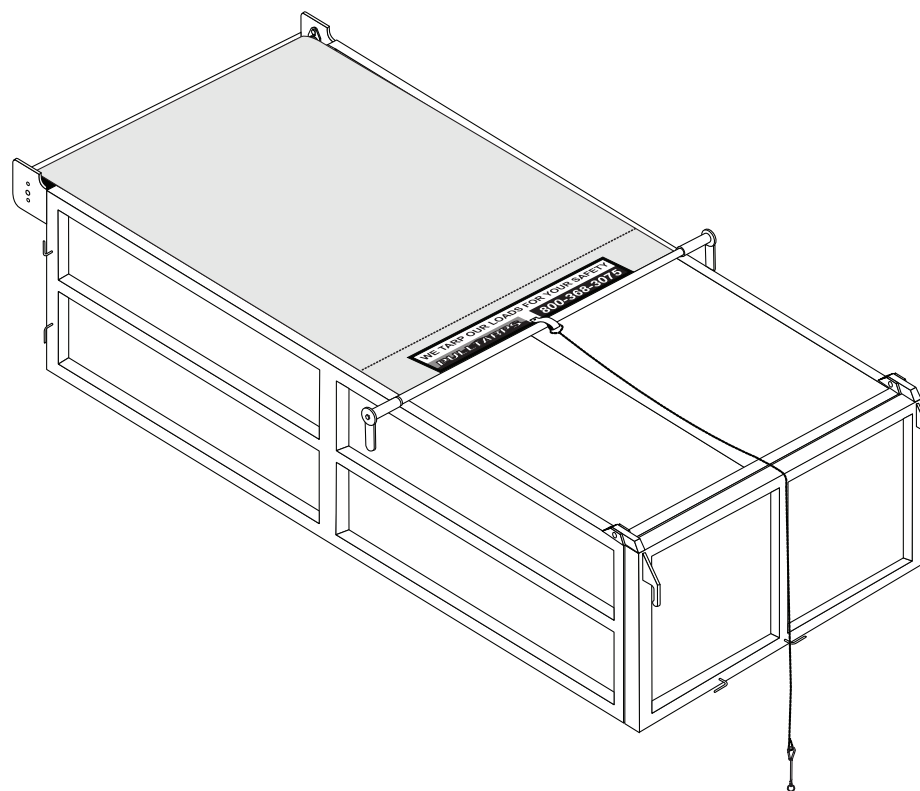
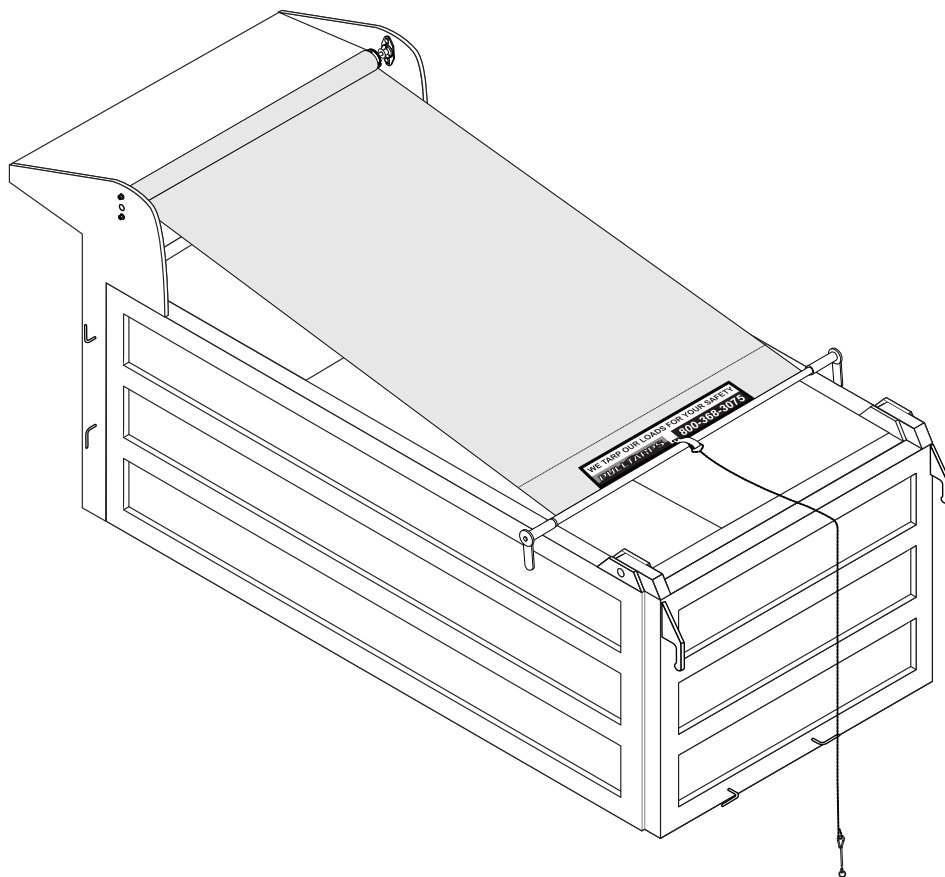




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Core Systems Installation Instructions



607-0149

WLH 03/23/18

For technical support call us at (877) 861-6265 or visit our website at Pulltarps.com.



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Core Systems Installation Instructions

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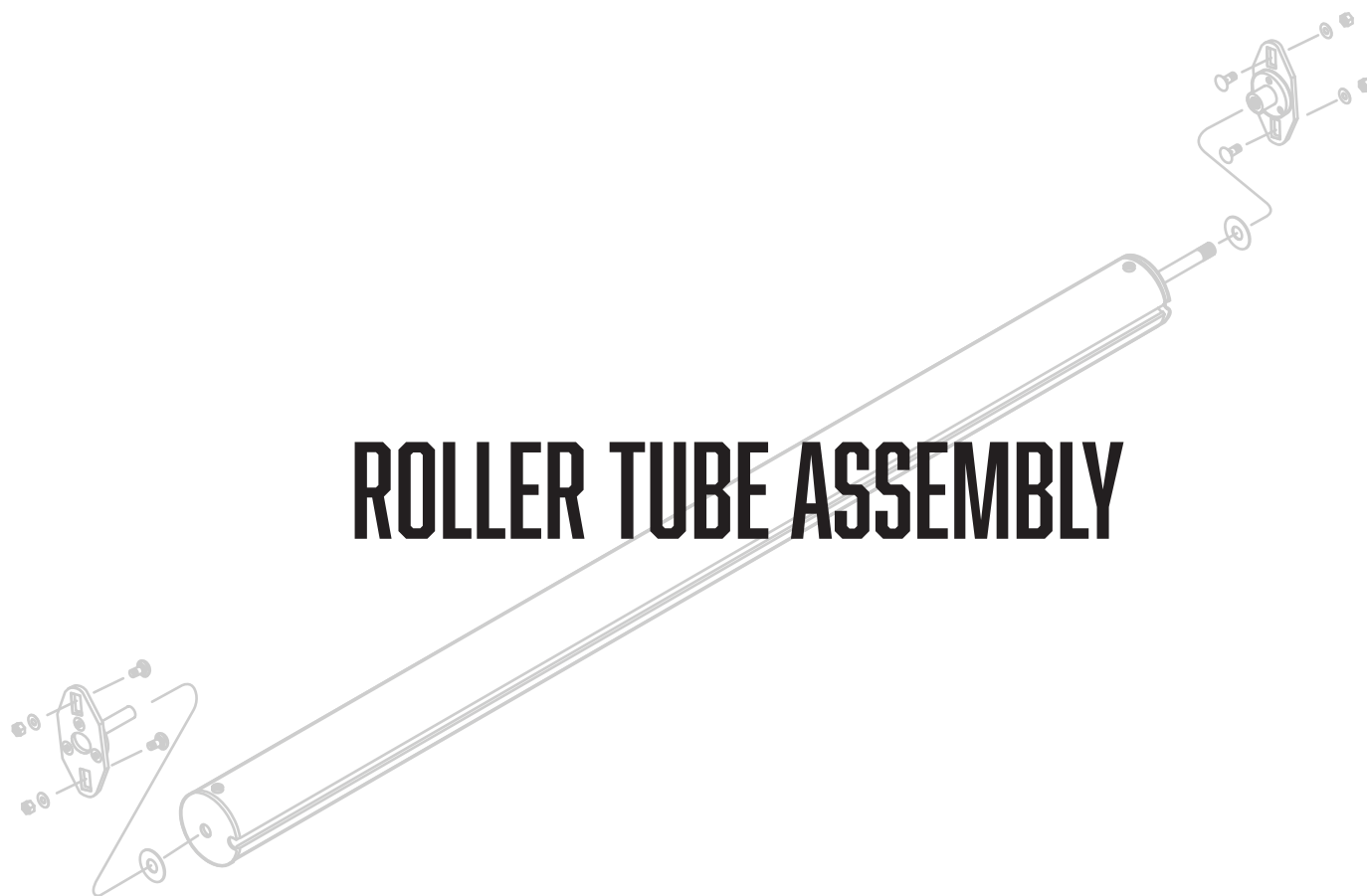
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Core Systems - Roller Tube Installation Instructions



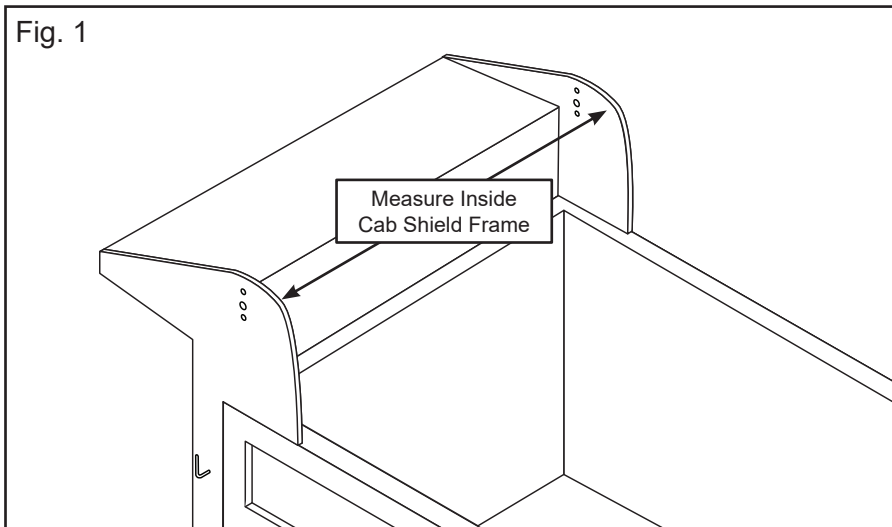


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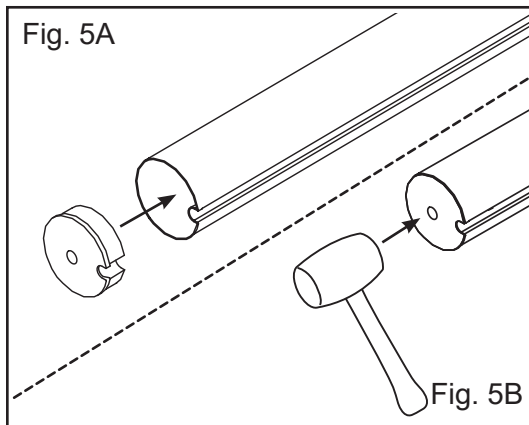
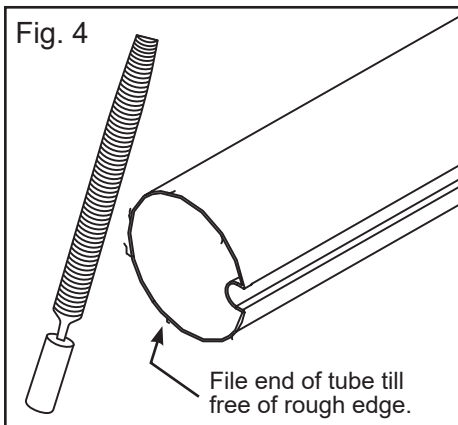
Core Systems - Roller Tube Installation Instructions

Roller Tube Assembly

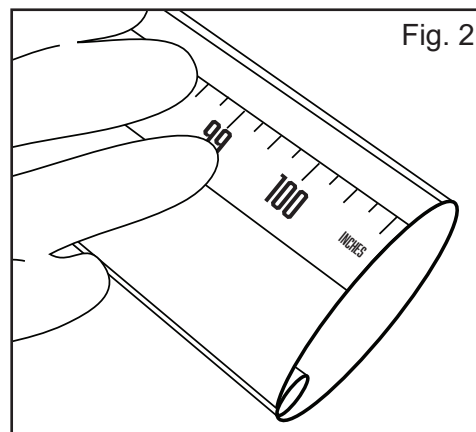
Step 1: Measure the inside of your cab shield frame to get the width. This will give you the correct length to cut the roller tube (Fig. 1).



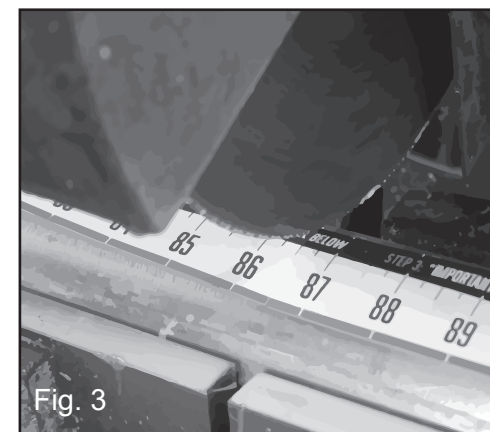
Step 3: After you've cut the Roller Tube to the desired length, use a metal file to remove metal fragments (Fig. 4).



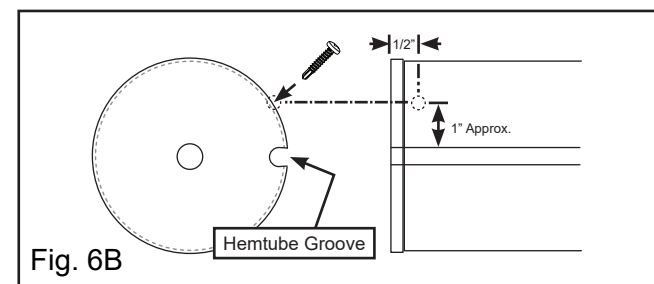
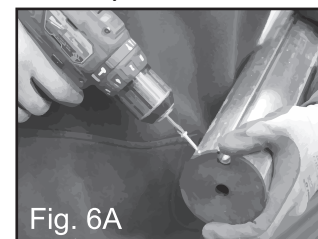
Step 4: Insert end cap into Roller Tube. Use a rubber mallet to tap the edges of the end cap lightly to ensure that it has been seated properly (Fig 5A & B).



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).





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Core Systems - Roller Tube Installation Instructions

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. 7A



Fig. 7B

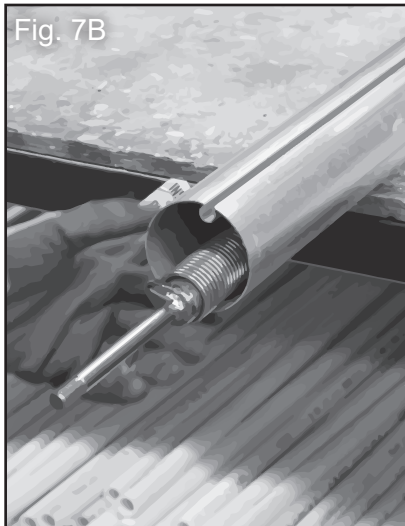
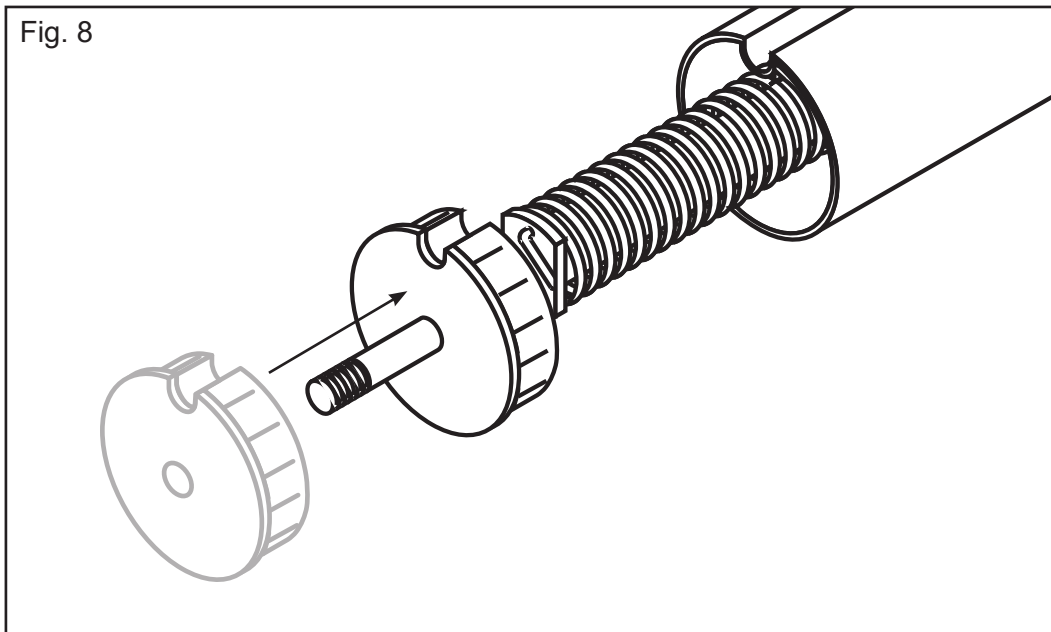


Fig. 8



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

Fig. 9A

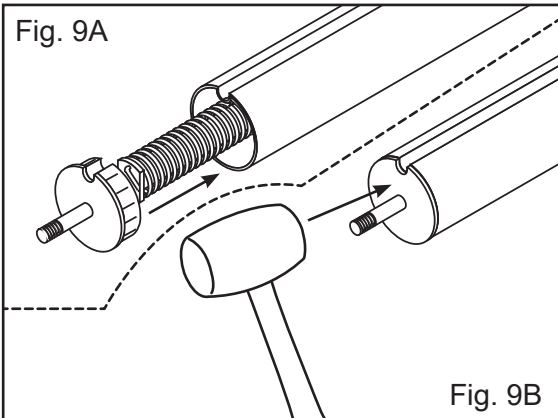


Fig. 9B

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).

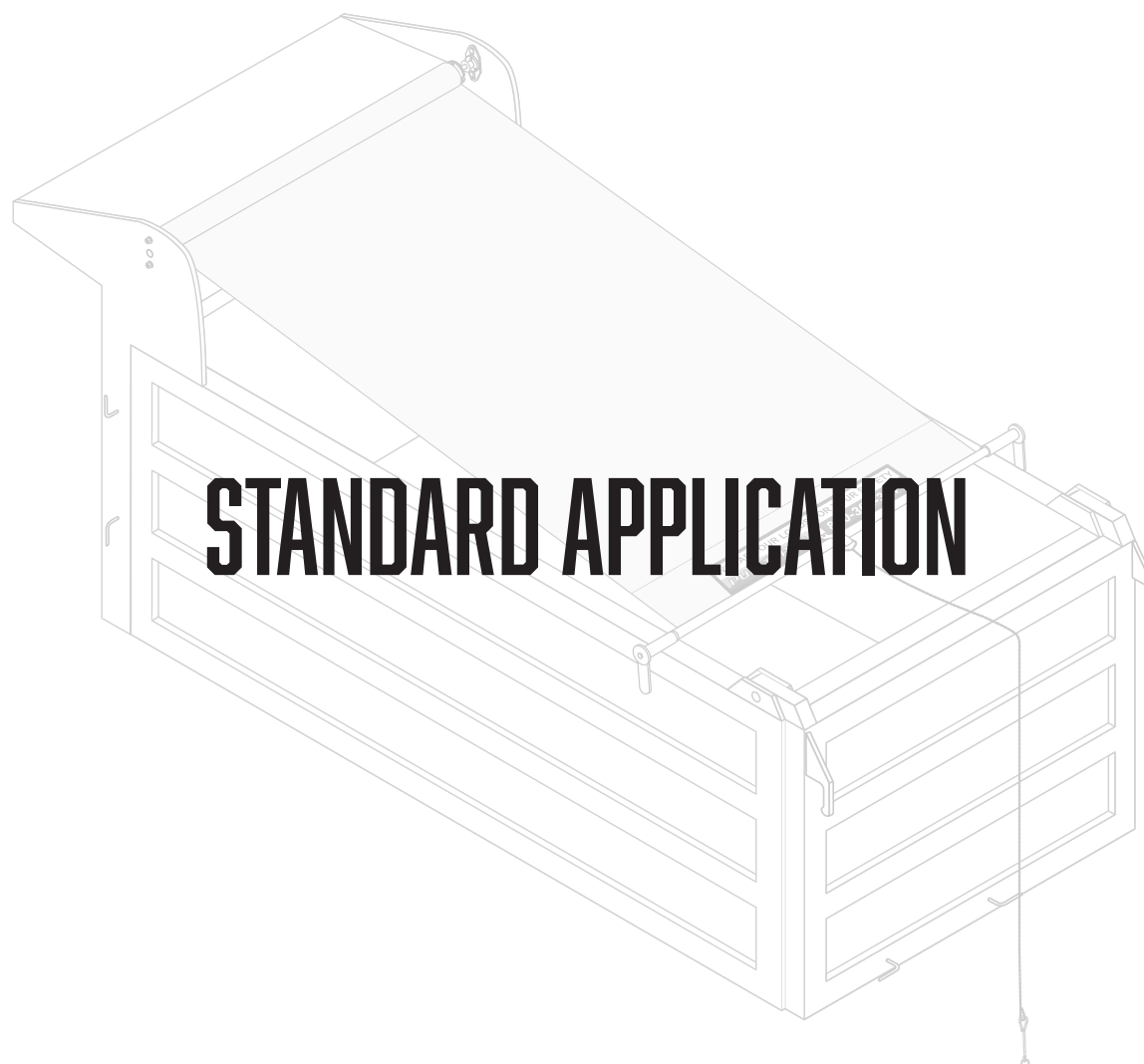


Step 9: Use a 3/4" Self-Drilling Screw and secure End Cap in the Roller Tube (Fig.10). Use the same instructions from Step 5.



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Core Systems - Standard Installation Instructions

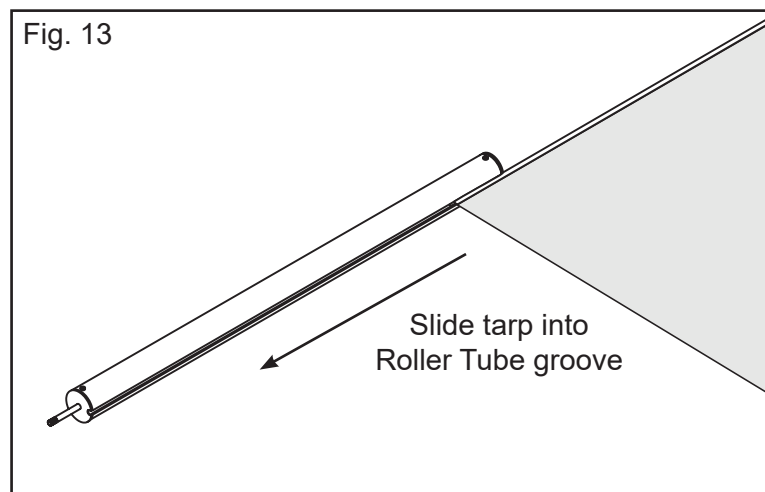
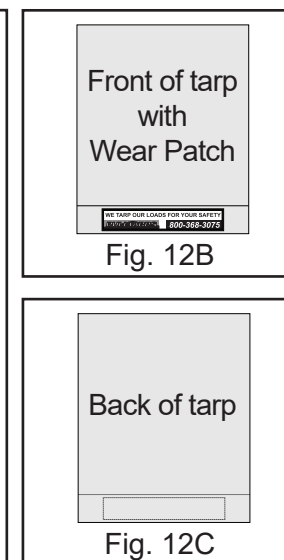
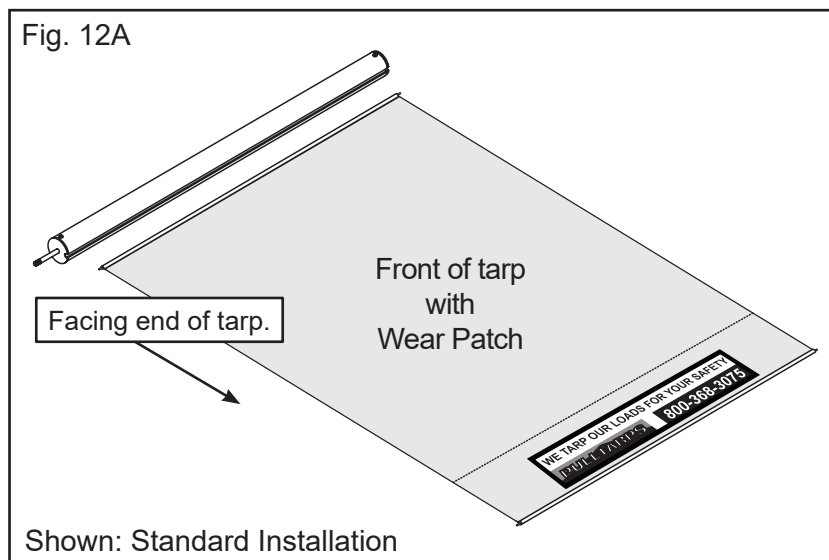
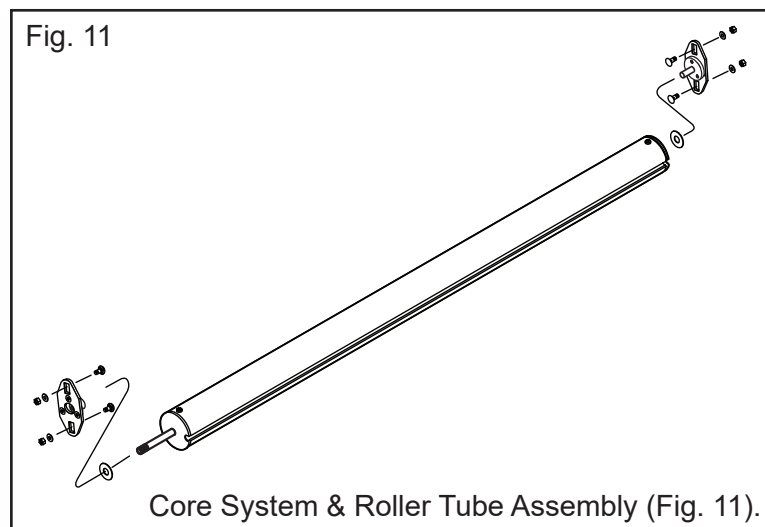




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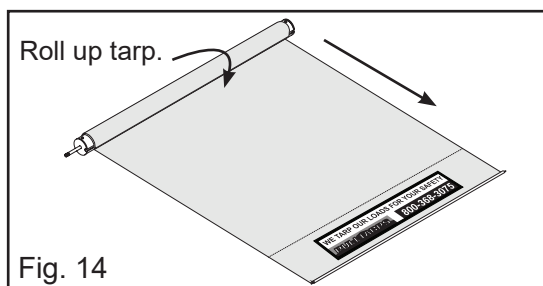
Core Systems - Standard Installation Instructions

Attaching Tarp to Roller Tube - Standard

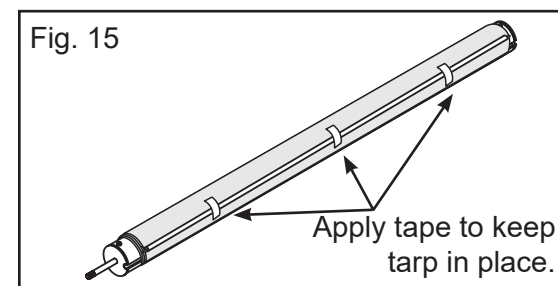


Step 2: Grab either end of the tarp and slide hemtube into the roller groove, until centered (Fig. 13).

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).

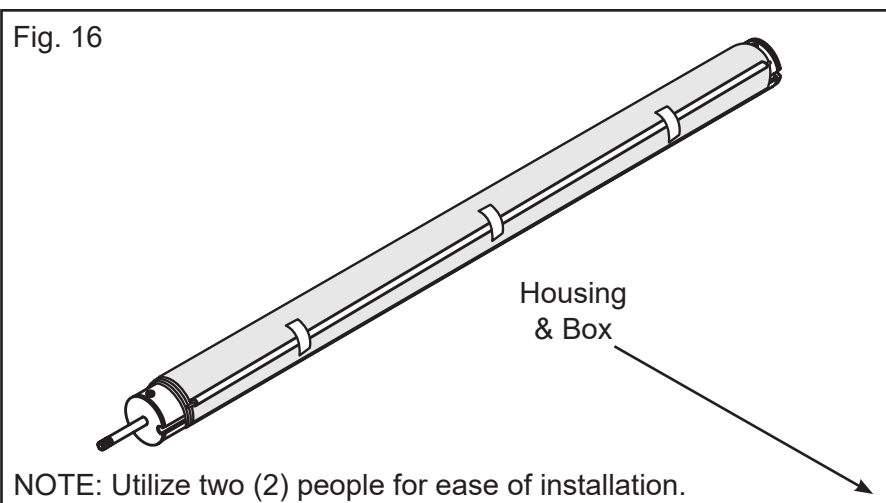


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Core Systems - Standard Installation Instructions

Installing Roller Tube, Adding Spring Tension & Attaching Pullrod

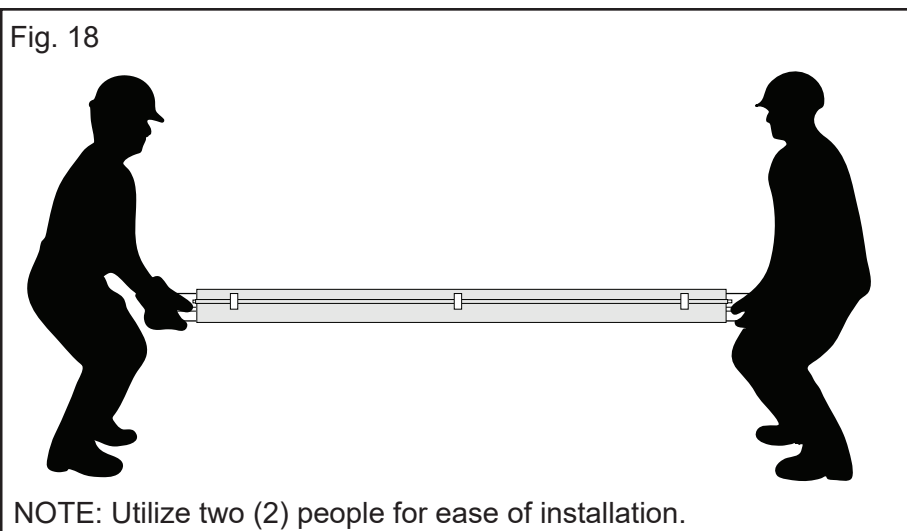
Fig. 16



NOTE: Utilize two (2) people for ease of installation.

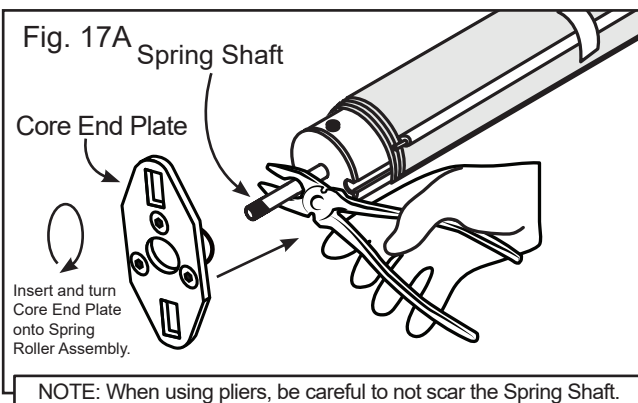
Step 5: Once the tarp is securely taped, lift and face the system housing (Fig. 16).

Fig. 18



NOTE: Utilize two (2) people for ease of installation.

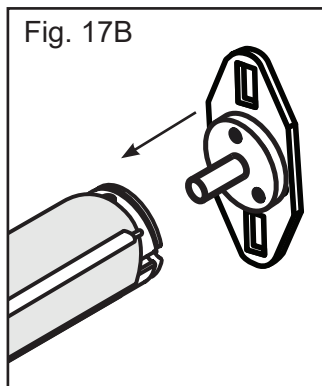
Fig. 17A Spring Shaft



NOTE: When using pliers, be careful to not scar the Spring Shaft.

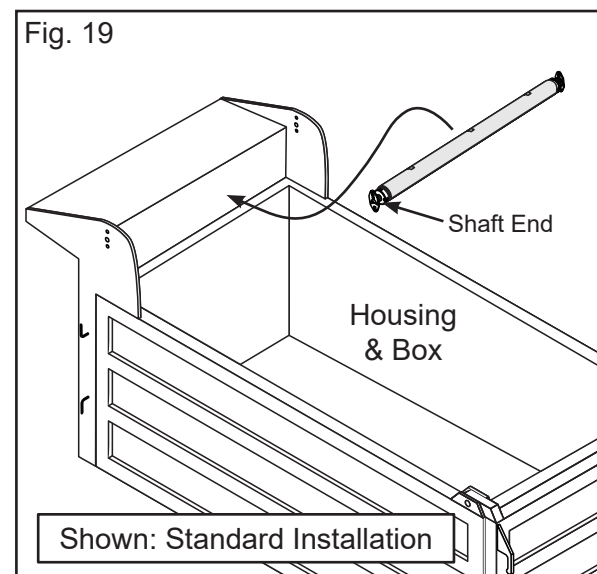
Step 6A: With roller tube on a table and secured, attached the Core End Plate to the Shaft End and rotate until tight. For best results, hold the Spring Shaft with pliers (Fig. 17A).

Fig. 17B



Step 6B: Next, insert the Universal Bolt Stud on the female side of the Roller Tube (Fig. 17B).

Fig. 19



Step 7: With a team member, lift the roller tube up and prepare to install in housing brackets (Fig. 18).

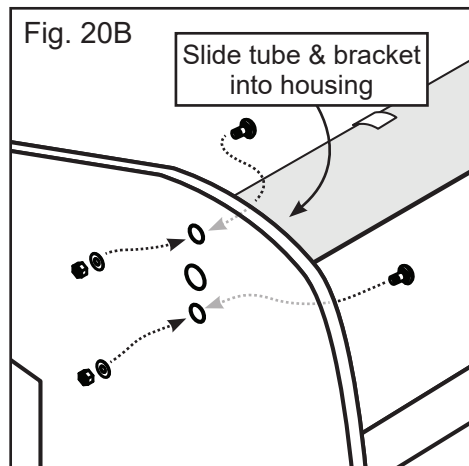
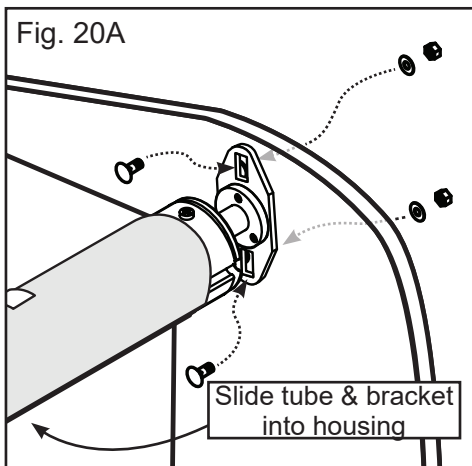
Step 8: With both team members holding the roller tube, position in front of housing (Fig. 19).



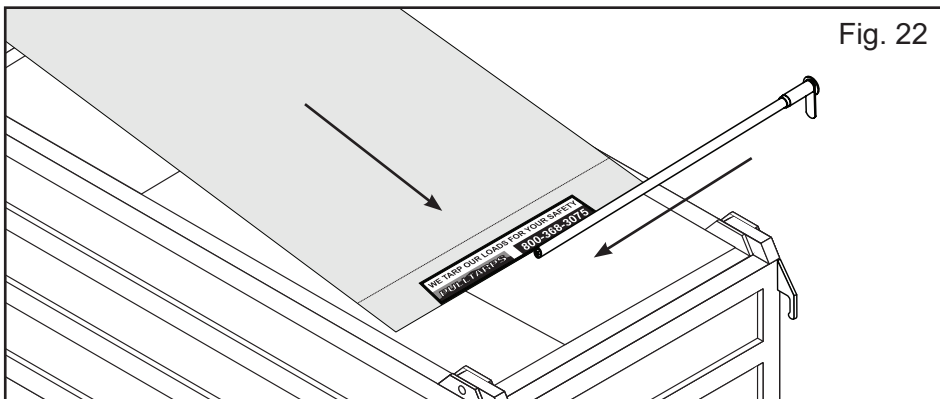
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Core Systems - Standard Installation Instructions

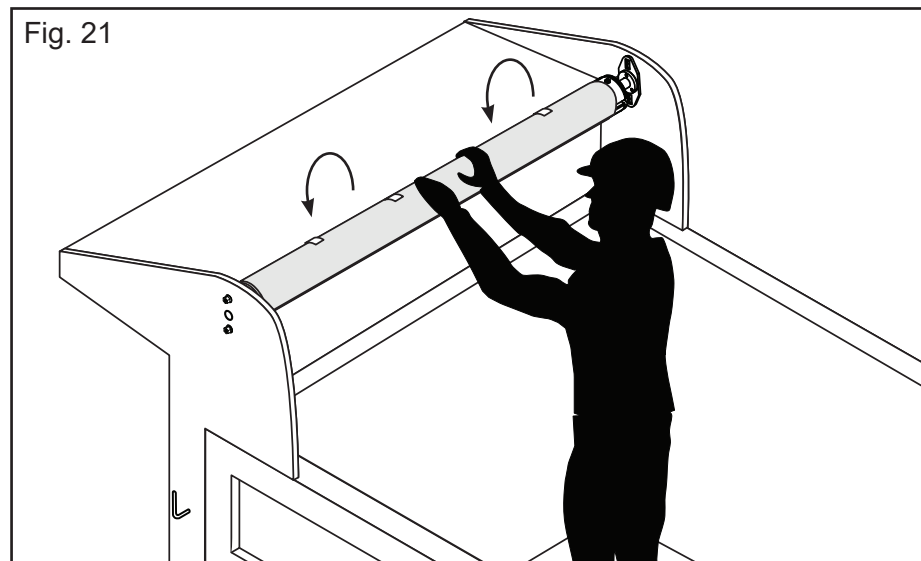
Installing Roller Tube, Adding Spring Tension & Attaching Pullrod



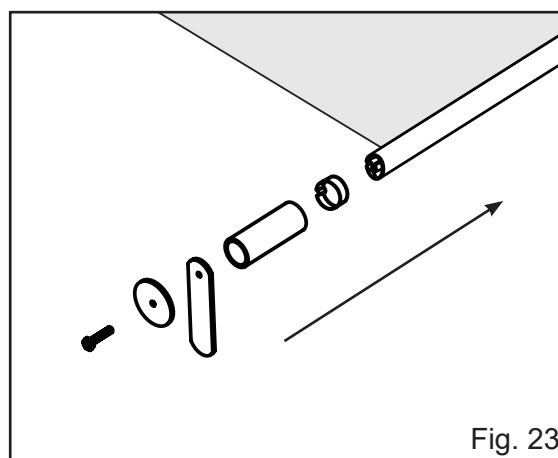
Step 9: Insert male end and bracket into housing, then insert carriage bolt and fasten with washer and nylock nut. Repeat same process on female end of tube (Fig. 20A & B).



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 pullbar onto the tarp. Make sure hemtub fits in slot (Fig. 22).
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 15 times to increase the spring tension in roller tube (Fig. 21).



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

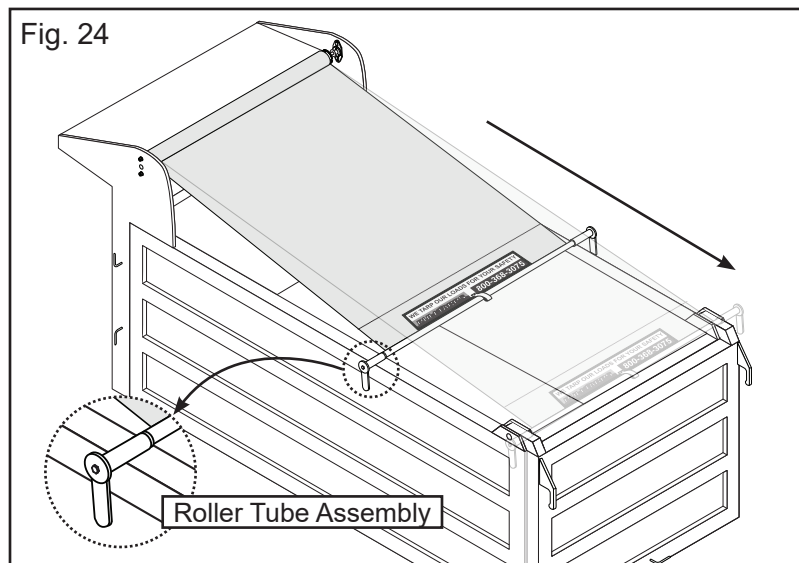


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Core Systems - Standard Installation Instructions

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).

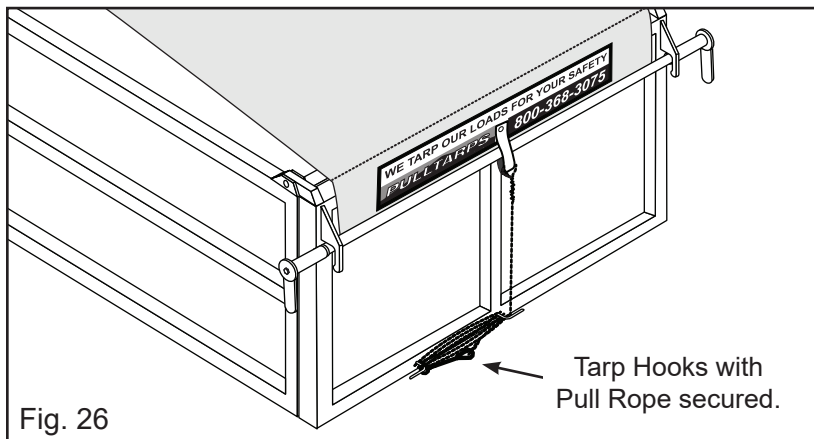
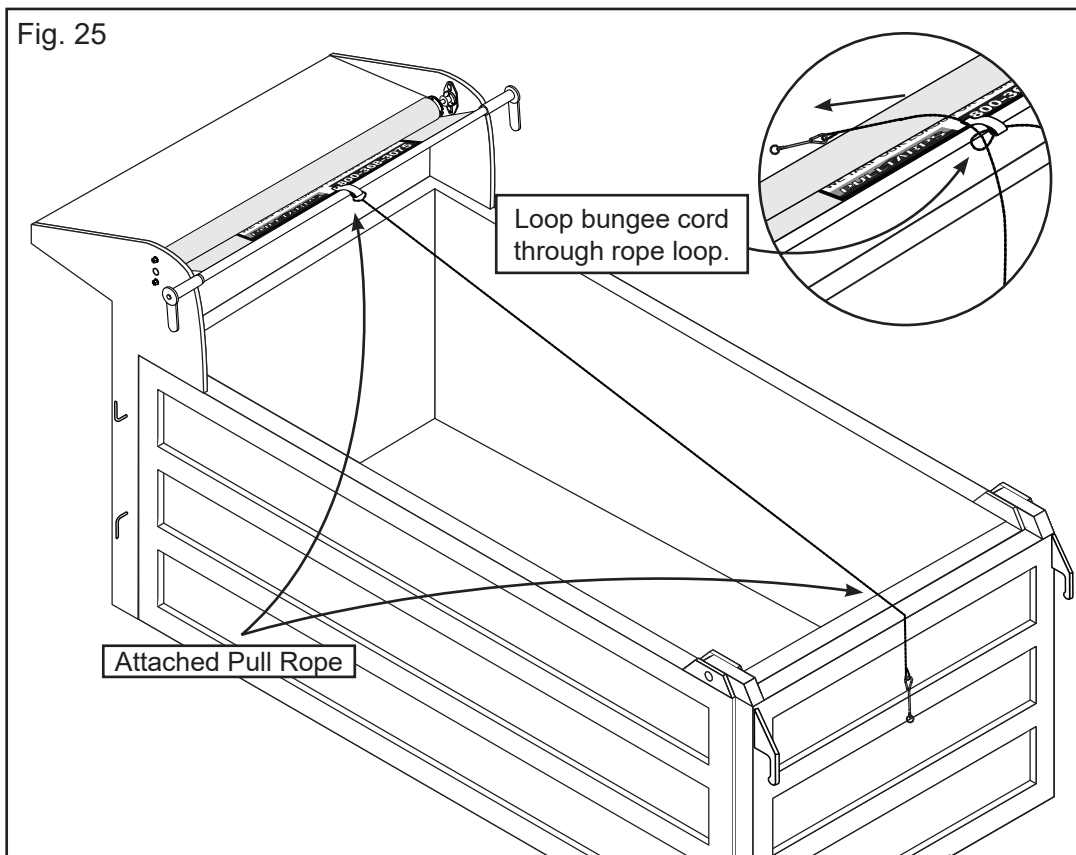


Fig. 26

Fig. 25



Step 14: Return pullbar to housing bracket groove. Attach the pull rope to the pullbar strap. Pull the pullrope loop through the pullbar strap and then thread the other end of the pullrope, 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).



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Core Systems - Over The Top Installation Instructions



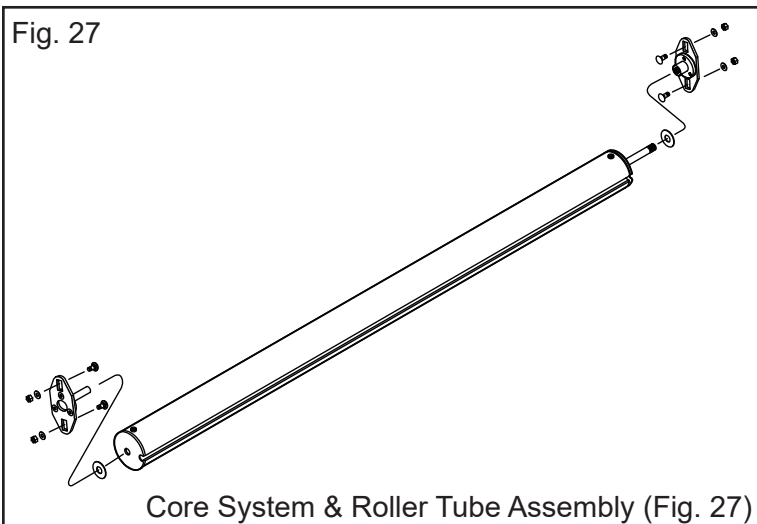


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Core Systems Installation Instructions

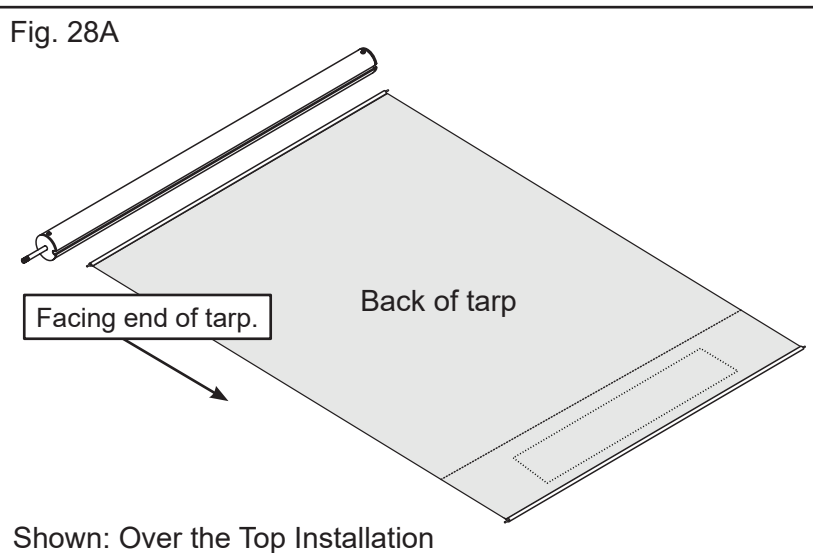
Attaching Tarp to Roller Tube Assembly - Over The Top

Fig. 27



Core System & Roller Tube Assembly (Fig. 27)

Fig. 28A



Shown: Over the Top Installation

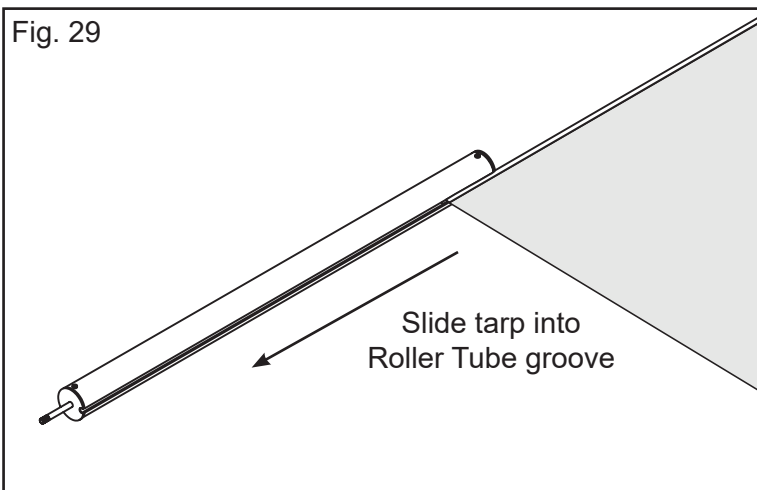
Front of tarp
with
Wear Patch

Fig. 28B

Back of tarp

Fig. 28C

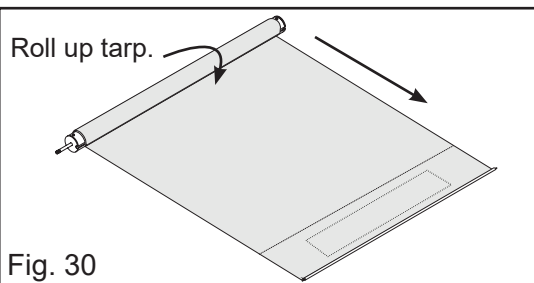
Fig. 29



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.

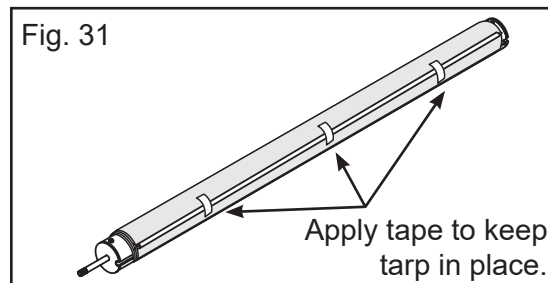
Roll up tarp.

Fig. 30



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

Fig. 31

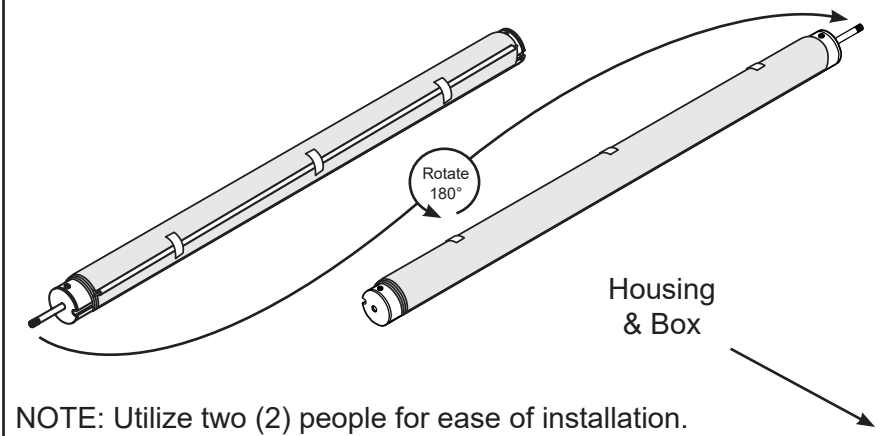


Step 4: Once tarp is rolled up, use duct tape to hold tarp in place (Fig. 31).

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

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

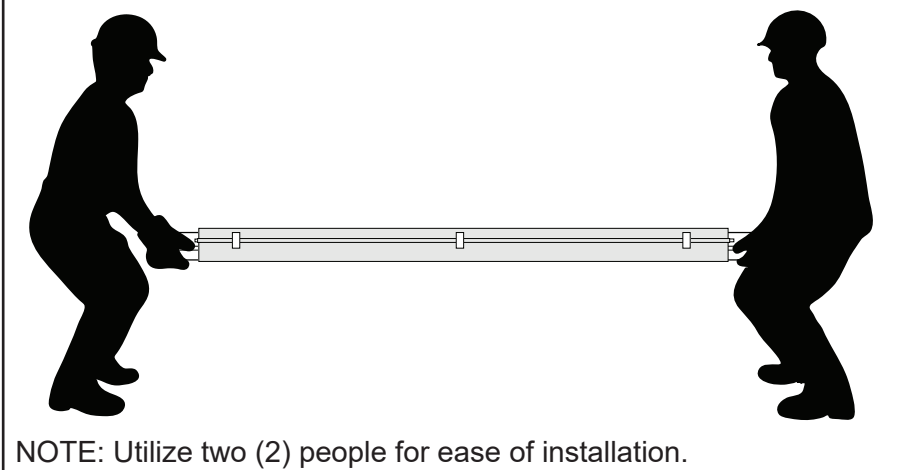
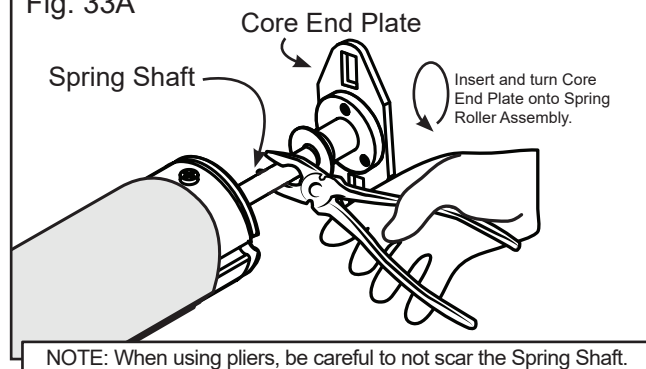
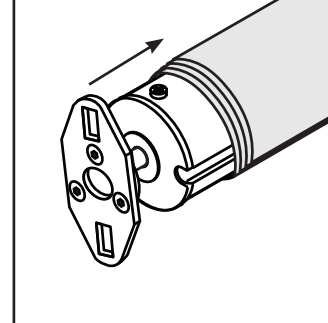


Fig. 33A



Step 6A: With roller tube on a table 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

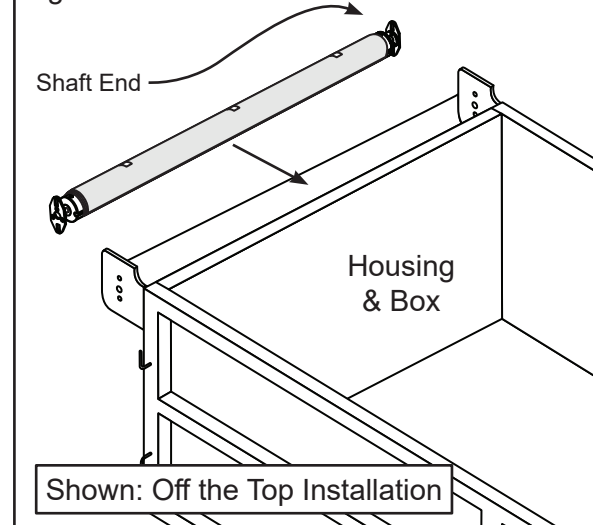


Step 6B: Next, insert the Universal Bolt Stud on the female side of the Roller Tube (Fig. 33B).

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

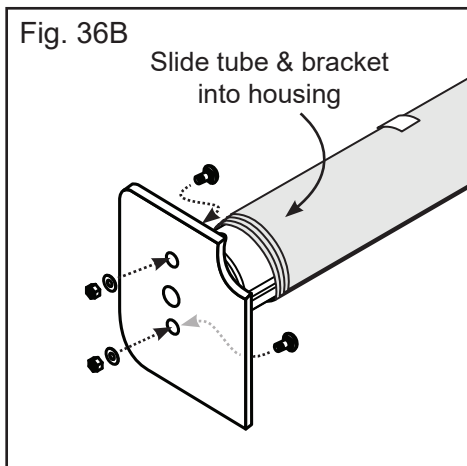
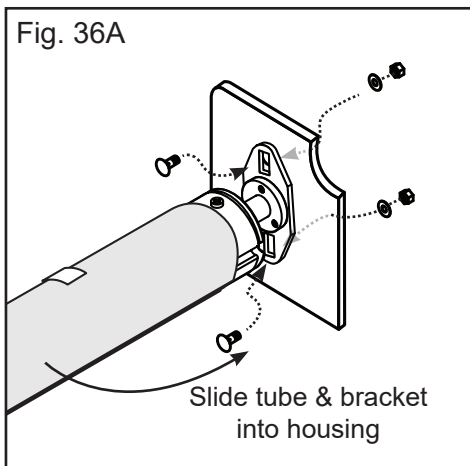




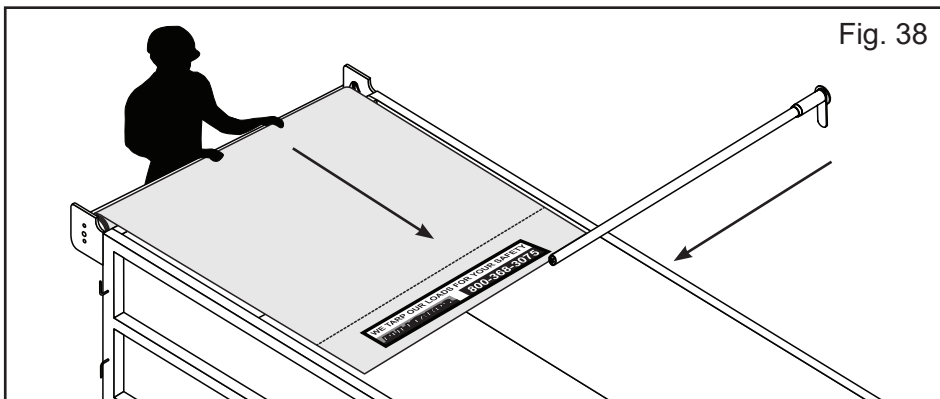
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Core Systems Installation Instructions

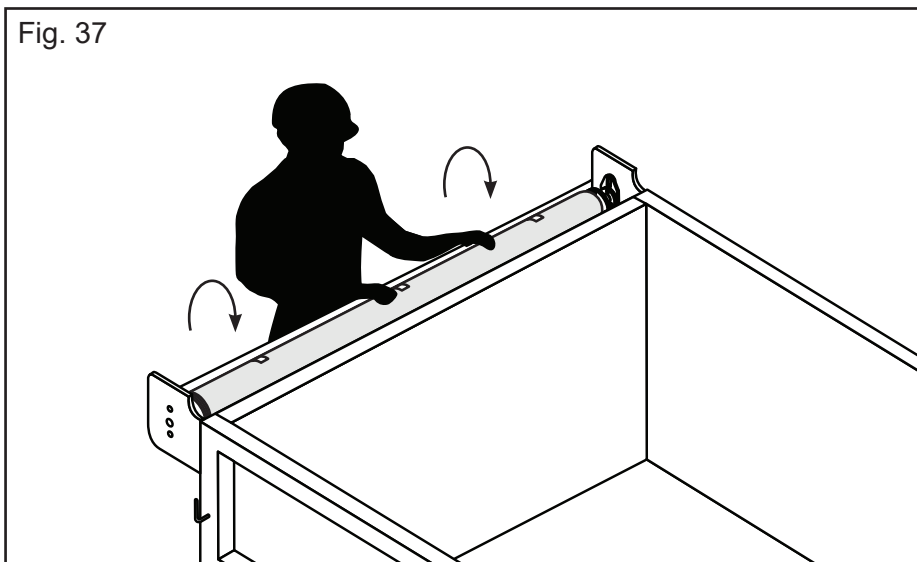
Installing Roller Tube, Adding Spring Tension & Attaching Pullrod



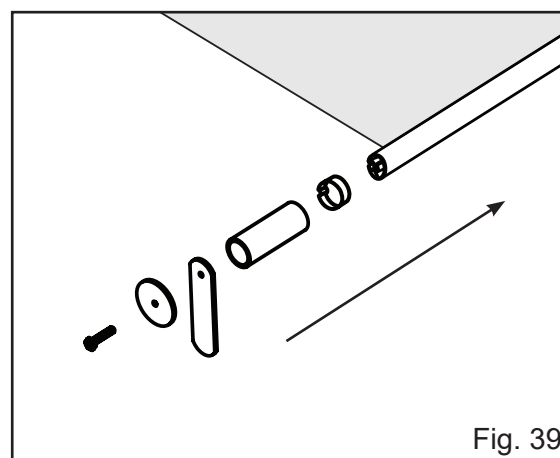
Step 9: Insert male end and bracket into housing, then insert carriage bolt and fasten with washer and nylock nut. Repeat the same process on female end of tube (Fig. 36A & 36B).



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 pullbar 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 15 times to increase the spring tension in roller tube (Fig. 37).



Step 12: With the tarp installed, now install the Pullrod Hardware kit (Fig. 39).

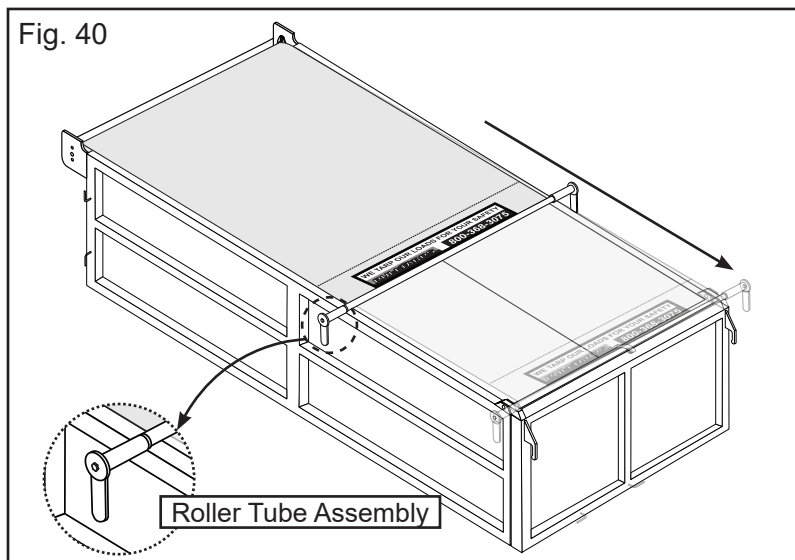


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Core Systems Installation Instructions

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

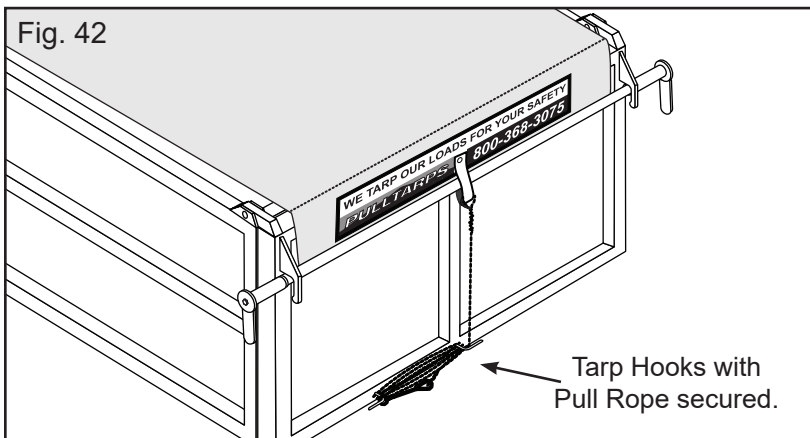
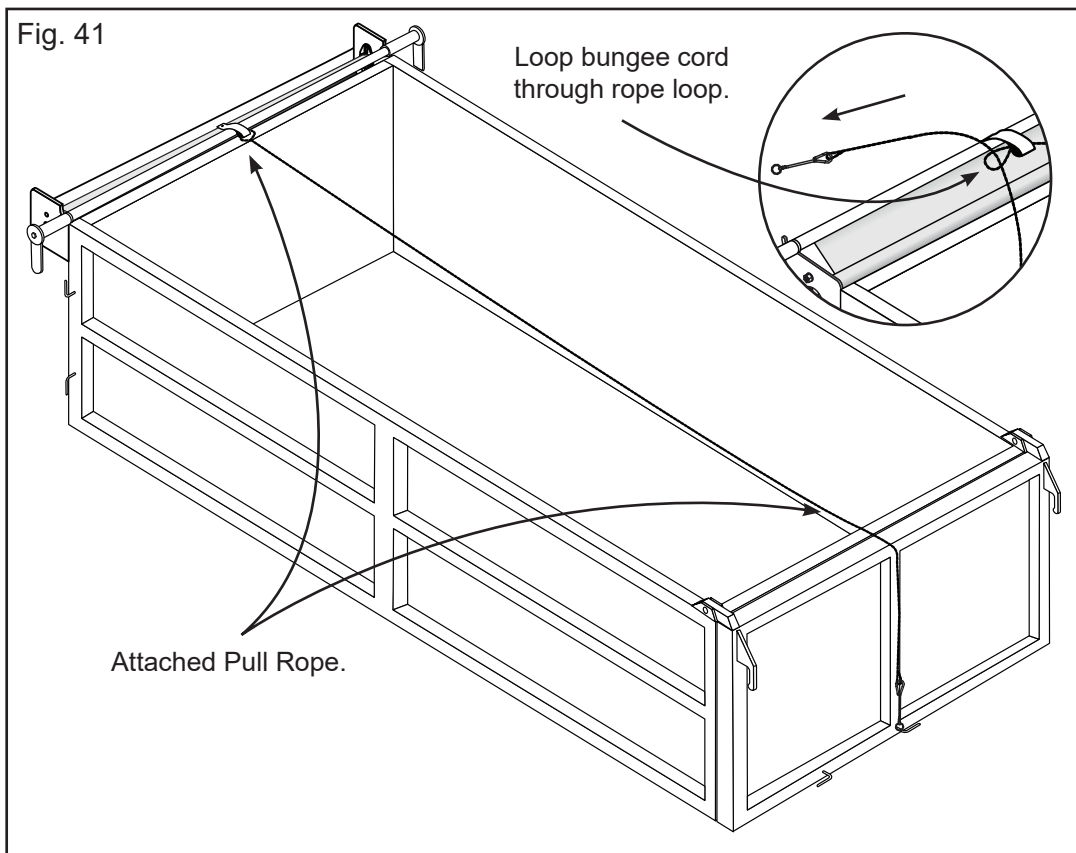


Fig. 41



Step 14: Return pullbar to housing bracket groove. Attach the pull rope to the pullbar strap. Pull the pullrope loop through the pullbar strap and then thread the other end of the pullrope, 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 drawing illustrates a rectangular tarp with a flap on the left side. The tarp is supported by a series of vertical poles. A rope is attached to the bottom edge of the tarp, runs along the ground, and is then attached to a hook on the right side. The text "FLAP TARP, ROPE & HOOK INSTALLATION" is overlaid on the diagram in a large, bold, sans-serif font.

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!

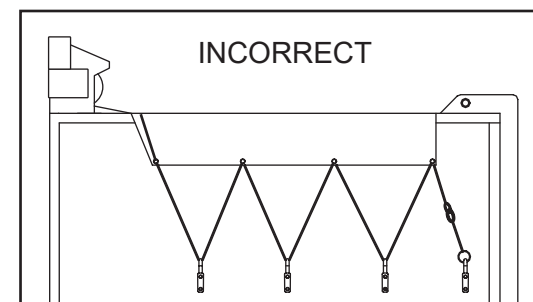
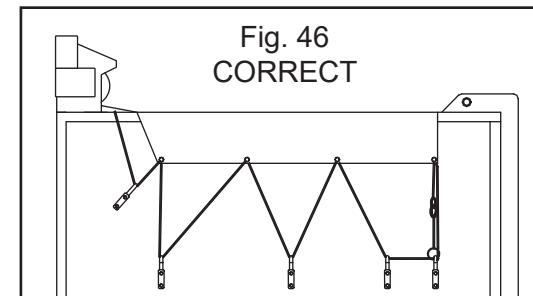
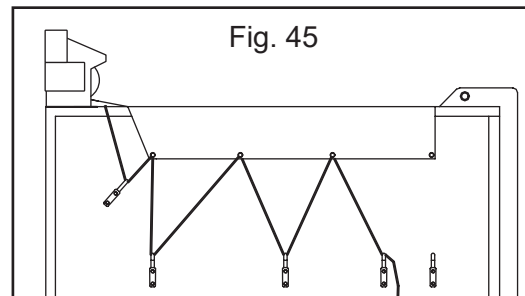
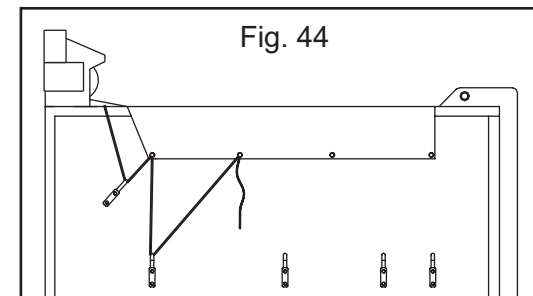
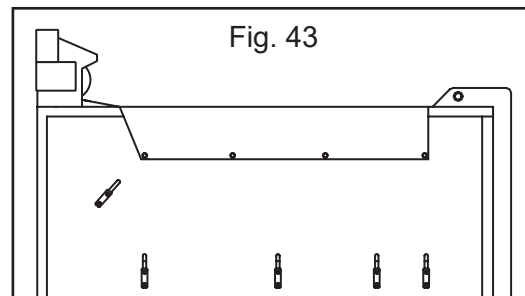
Step 1: Flip the braided rope over the corner so that the flaps and tie down ropes hang over each side of the box. The number of tie down hooks vary depending on the length of your tarp. One pull down hook is included with your Pulltarp system. If needed. Use the hook to pull the braided rope and flaps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



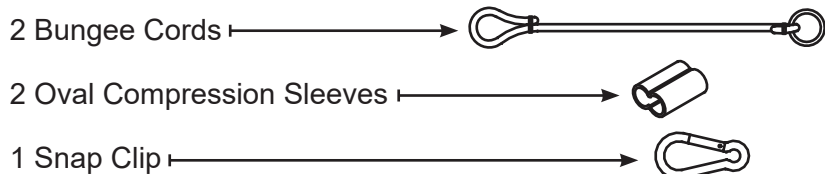


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Core Systems Installation Instructions

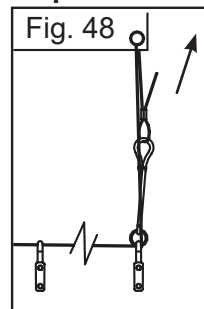
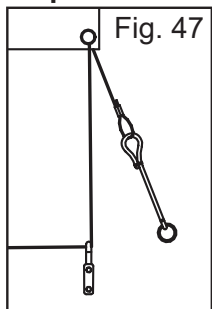
Bungee Cord Installation

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.

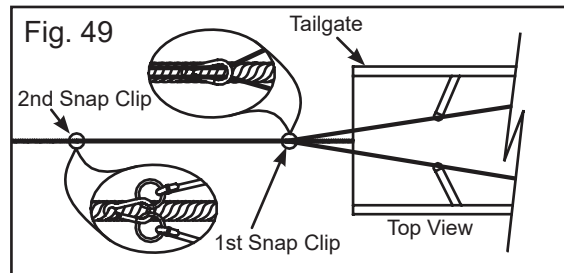
Tarps with Side Flaps



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.

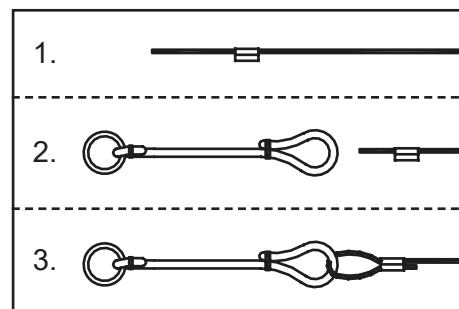
Note: Check for proper placement of rope through the last two hooks.

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).

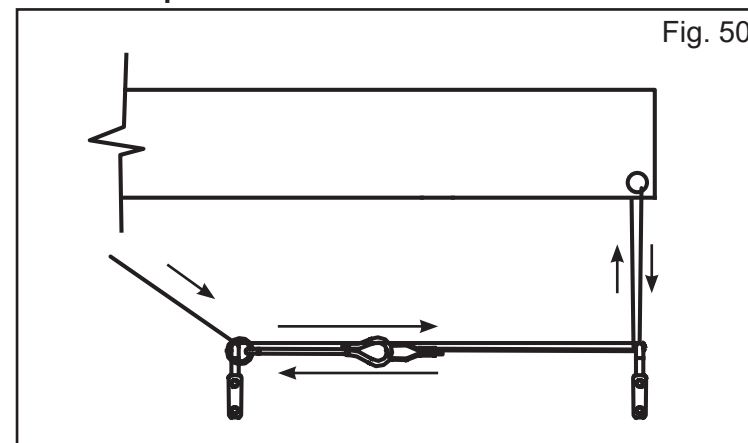
Note: First snap clip should not be used on long wheel base belly dumps.



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 attaching the end of the bungee cord to an alternate hook (Fig. 50).



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Core Systems Installation Instructions

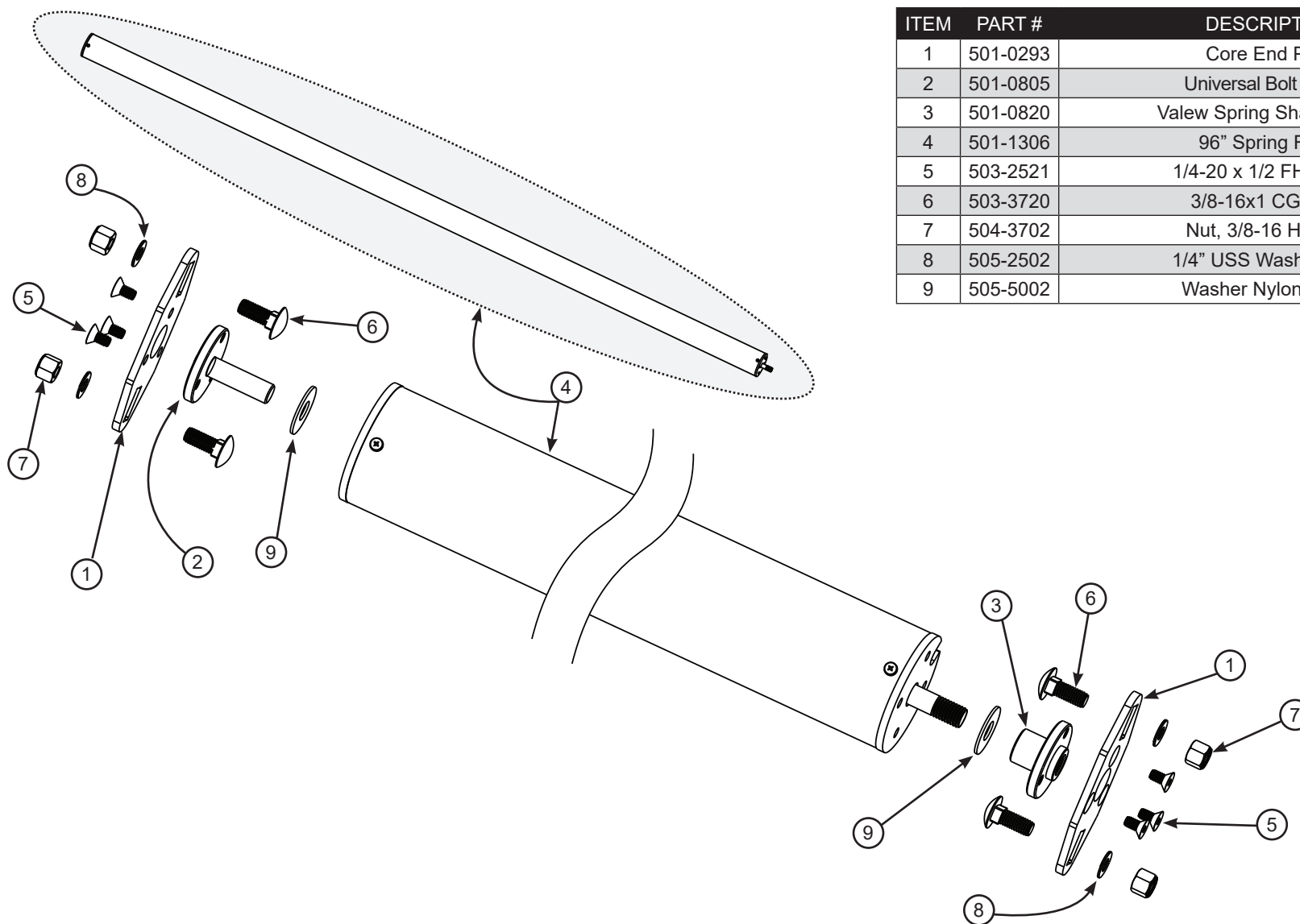




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Core Systems Installation Instructions

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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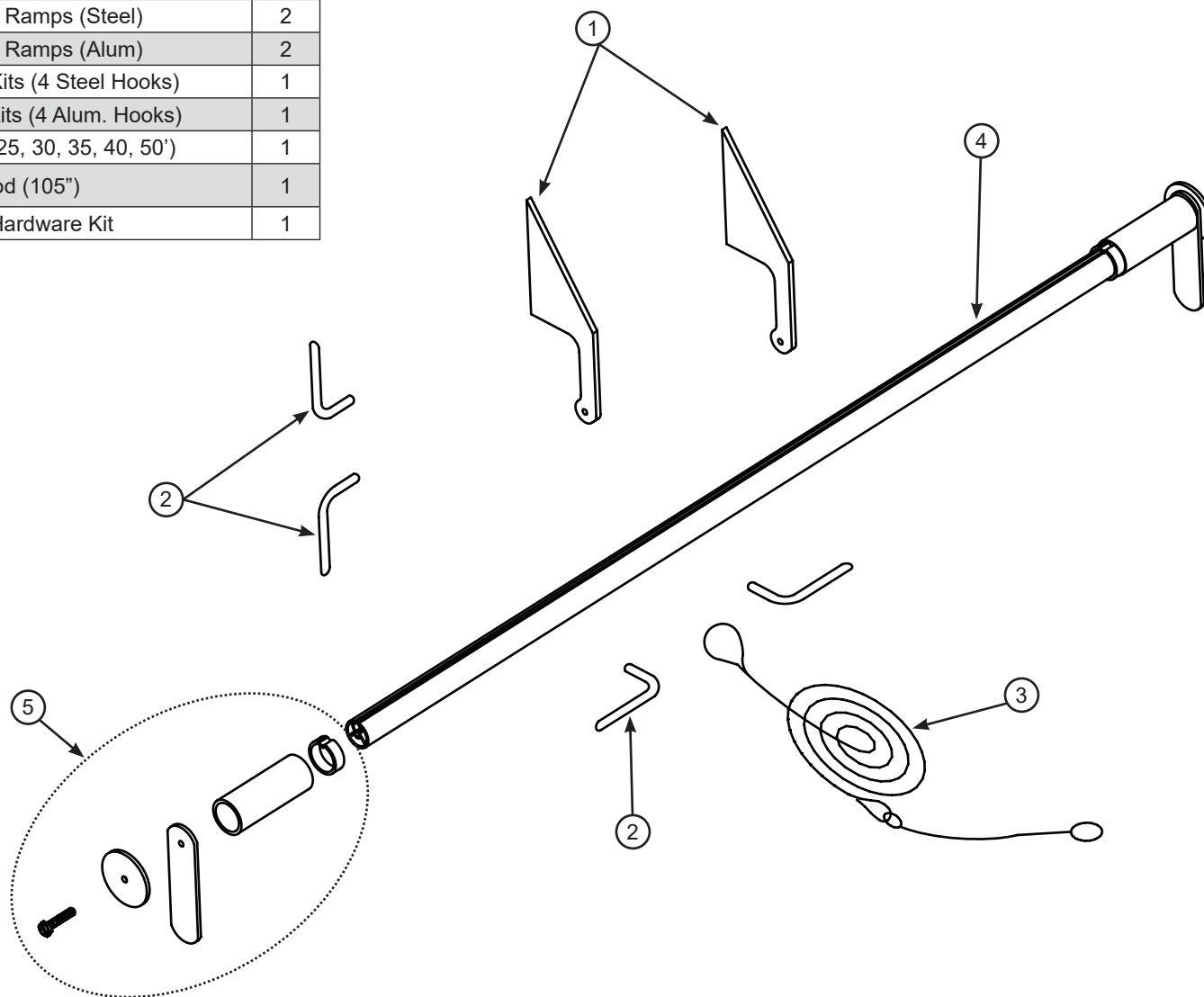
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Core Systems Installation Instructions

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	517-10XX	Pull Rope (20, 25, 30, 35, 40, 50')	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 Mallet	1
7	Metal File	1

WLH 03/19/18

