PULLTARPS ®

1404 N. Marshall Ave. El Cajon CA. 92020
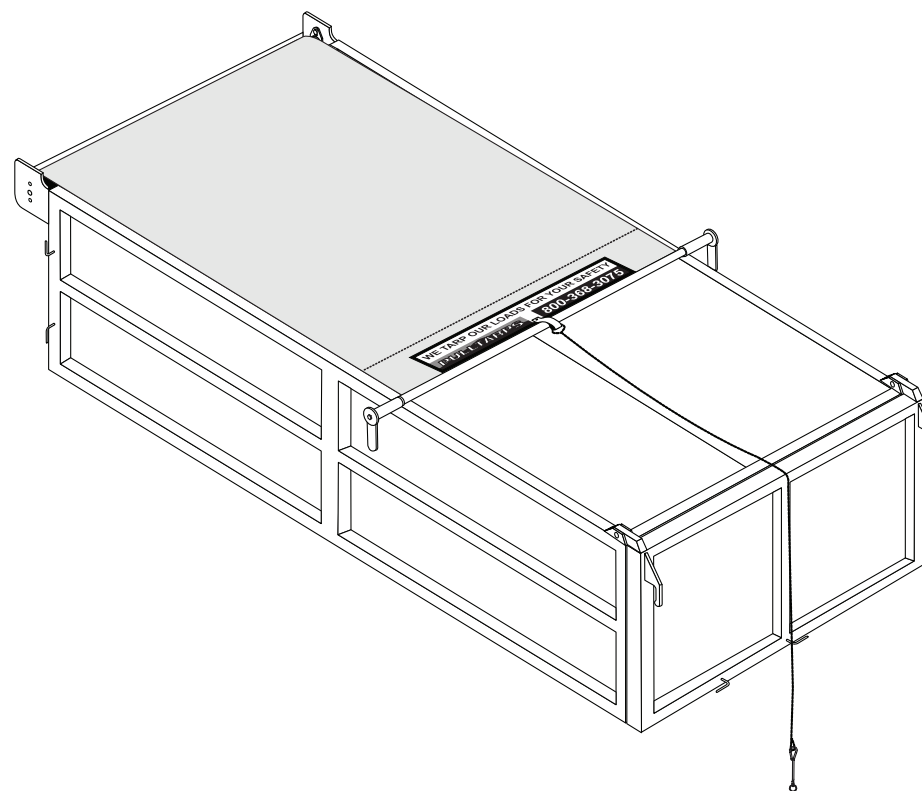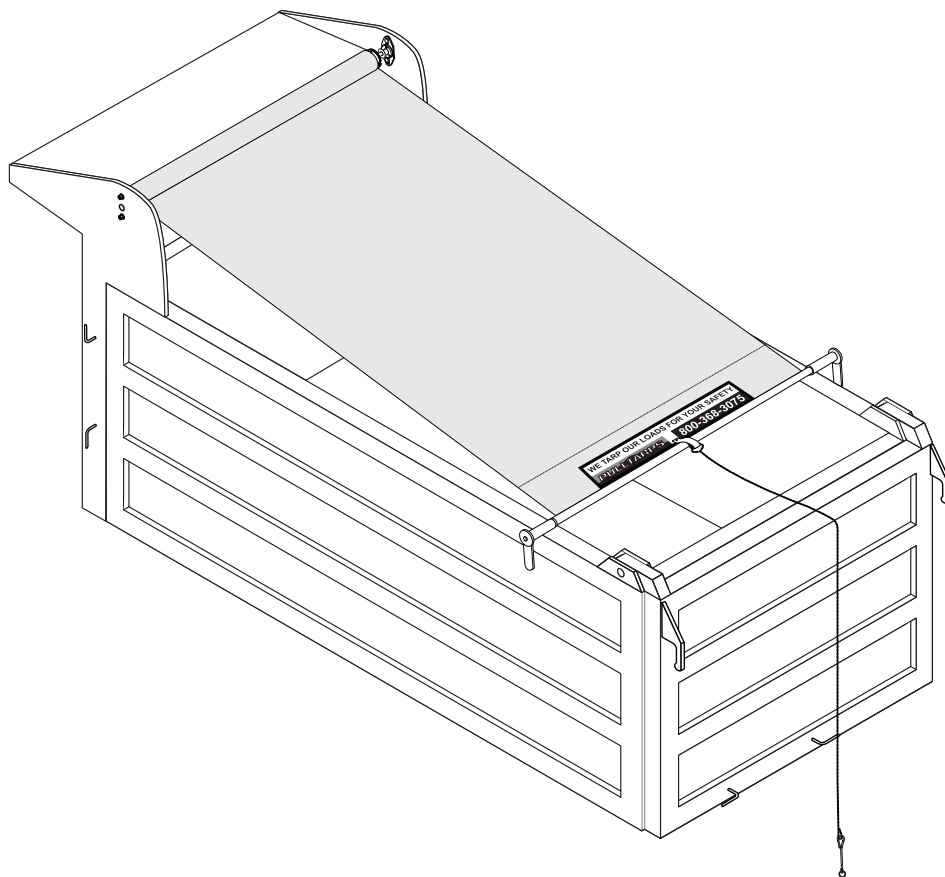
**Core Systems
Installation Instructions**

185-3017
185-3018
185-3517

TABLE OF CONTENTS

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).

Fig. 1

Measure Inside
Cab Shield Frame
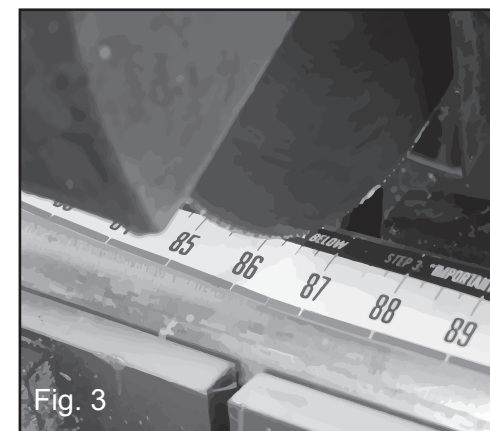
Fig. 2

Fig. 3

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).
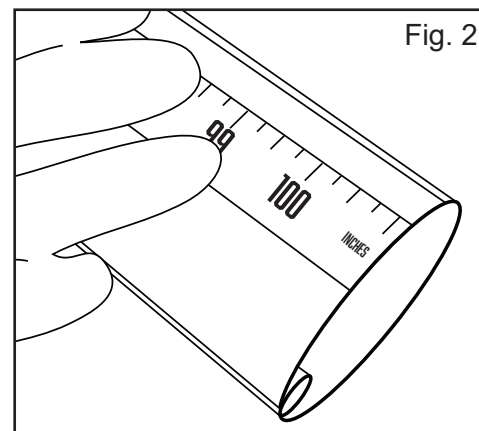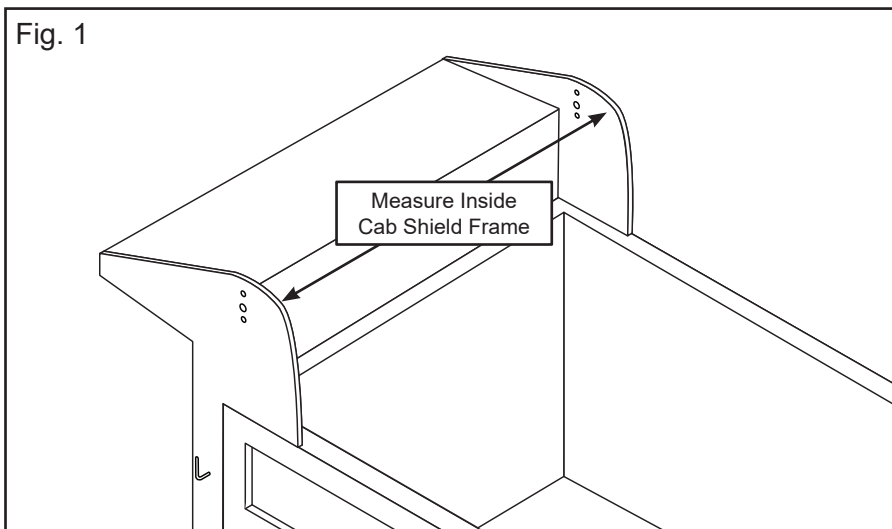
Fig. 6A

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

Fig. 4

File end of tube till free of rough edge.
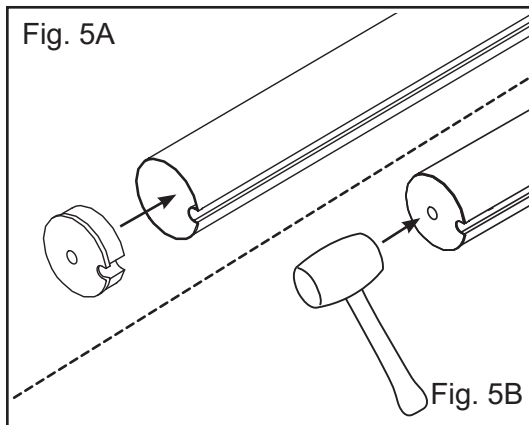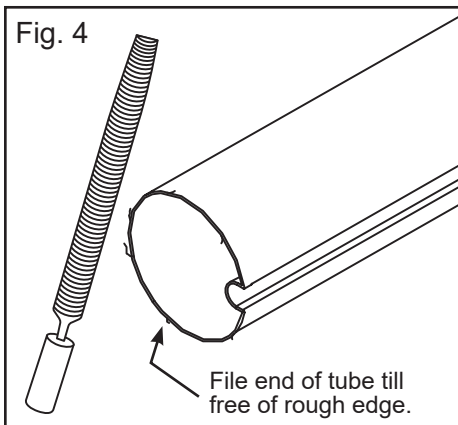
Fig. 5A

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).

Fig. 5B

1/2"

1" Approx.

Hemtube Groove

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. 7A

Fig. 7B

Fig. 8

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

Fig. 9A

Step 8:
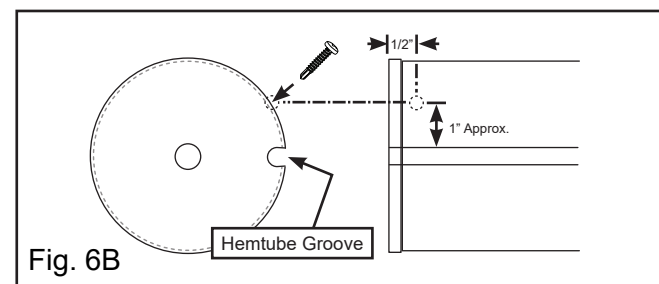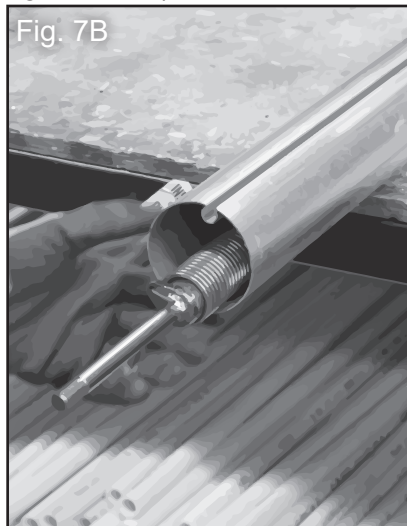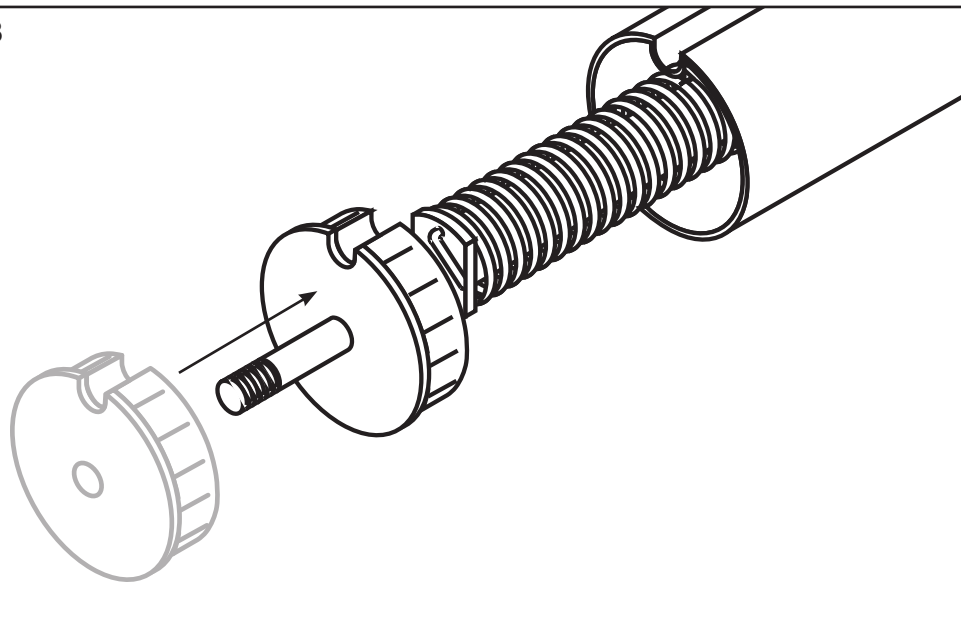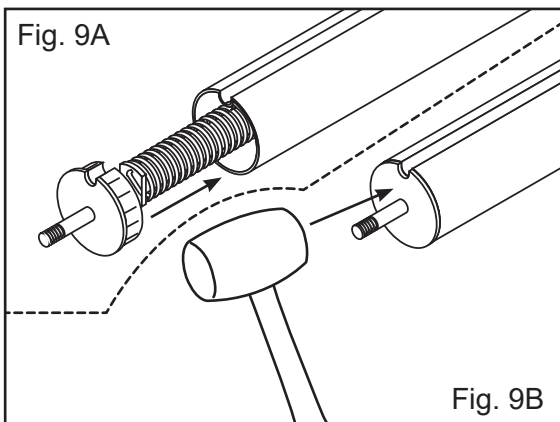Insert End Cap and Spring Shaft into Roller Tube. Use a rubber mallet to tap the edges of the end cap lightly to ensure that it has been seated properly
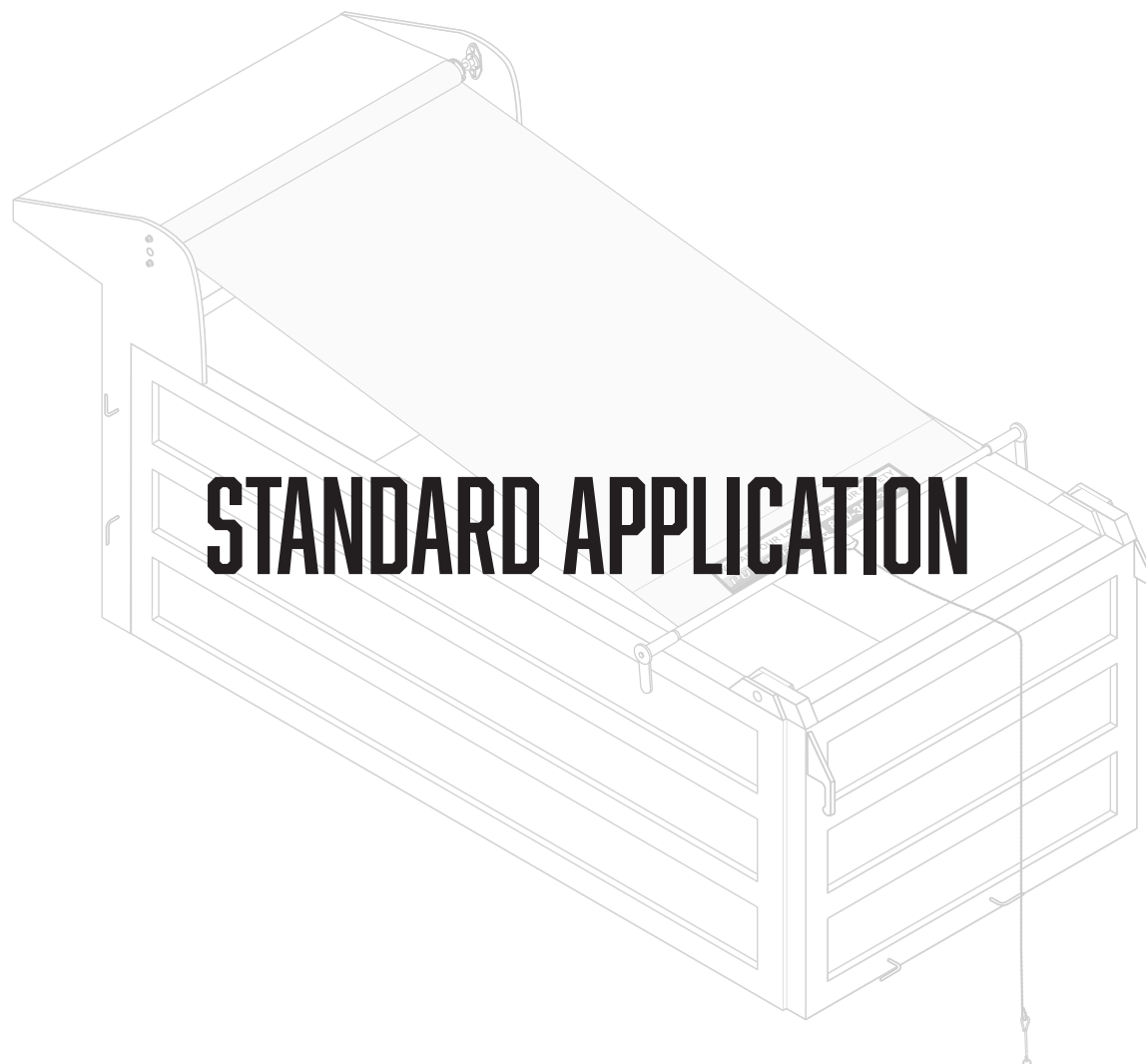(Fig. 9A & 9B).

Fig. 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.

Fig. 10

STANDARD APPLICATION

Attaching Tarp to Roller Tube - Standard
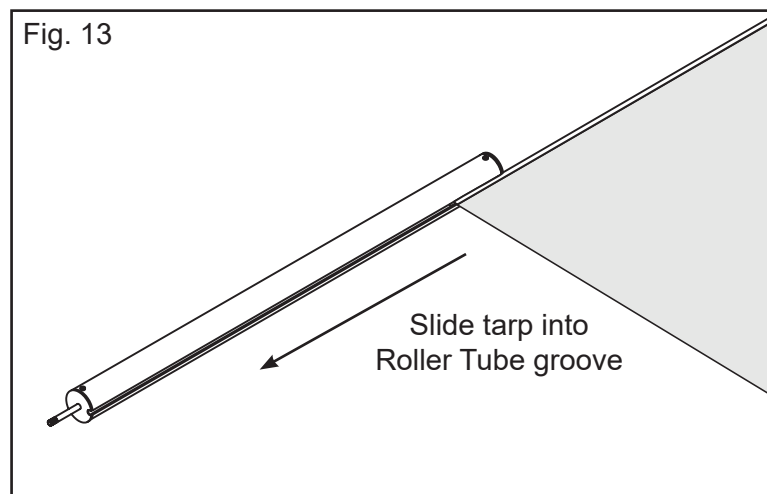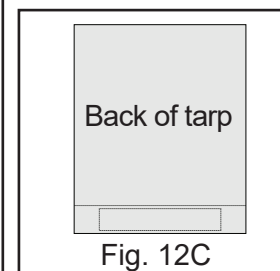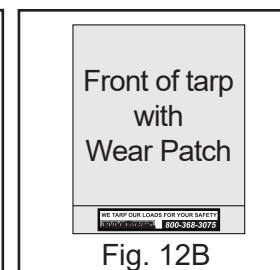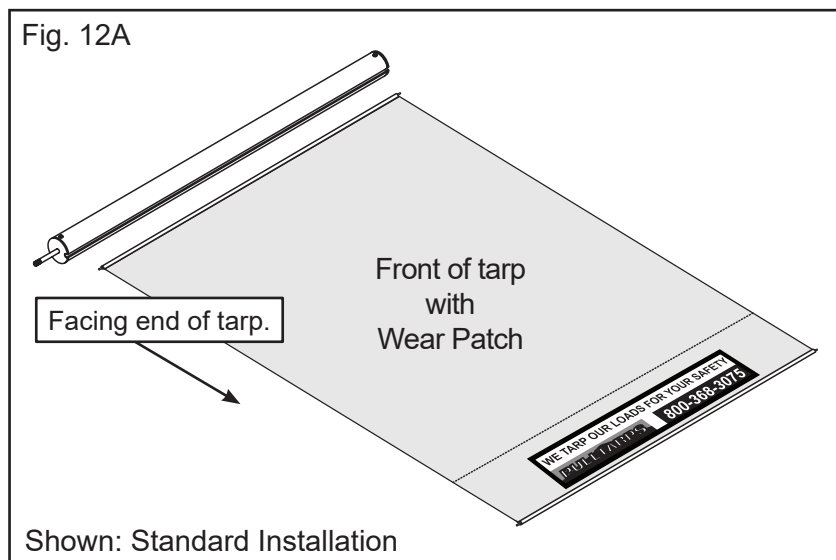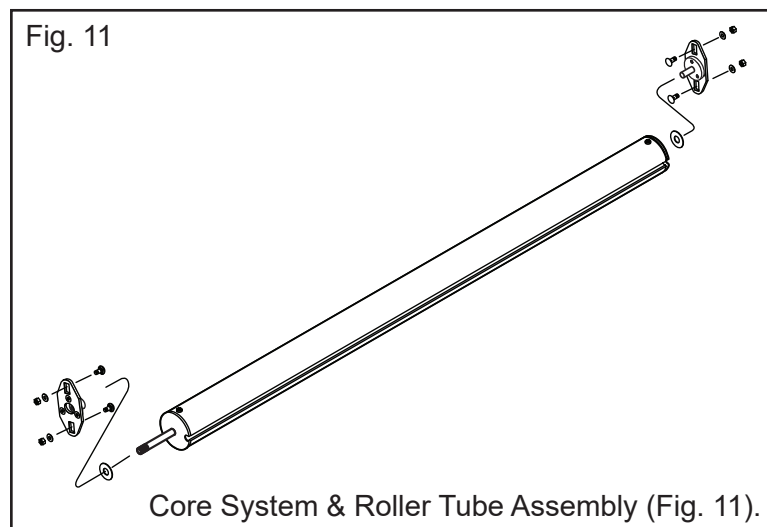
Fig. 11

Core System & Roller Tube Assembly (Fig. 11).

Fig. 12A

Facing end of tarp.

Front of tarp
with
Wear Patch

WE TARP OUR LOADS FOR YOUR SAFETY
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Shown: Standard Installation

Front of tarp
with
Wear Patch

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Fig. 12B

Back of tarp

Fig. 12C

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.

Fig. 13

Slide tarp into
Roller Tube groove

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

Roll up tarp.

Fig. 14

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

Fig. 15

Apply tape to keep tarp in place.

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

Fig. 16A

Spring Shaft

Core End Plate

Insert and turn Core End Plate onto Spring Roller Assembly.

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

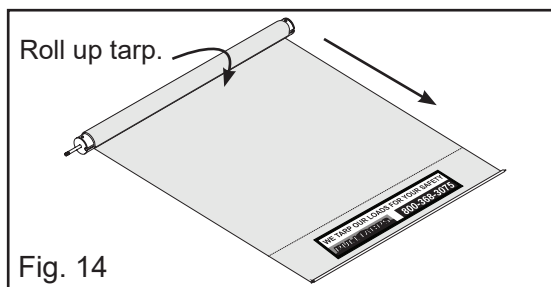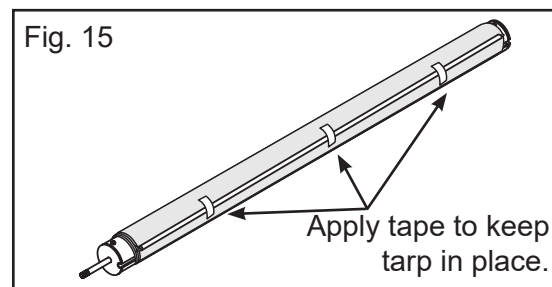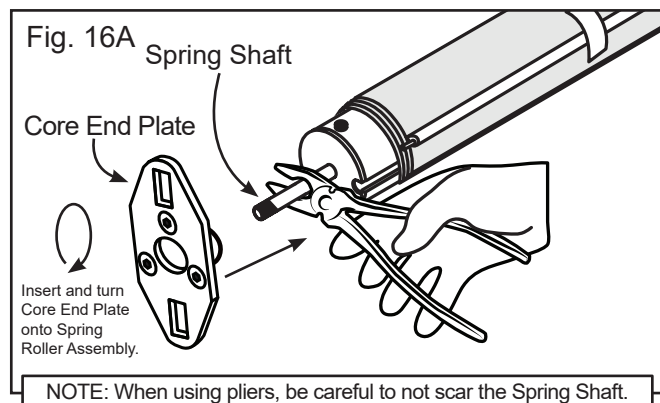**Step 5A:** With roller tube secured, attached the Core End Plate to the Spring Shaft End and rotate until tight. For best results, hold the Spring Shaft with pliers (Fig 16A).
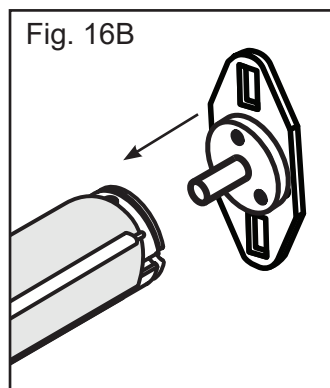
Fig. 16B

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

Fig. 17

NOTE: Utilize two (2) people for ease of installation.
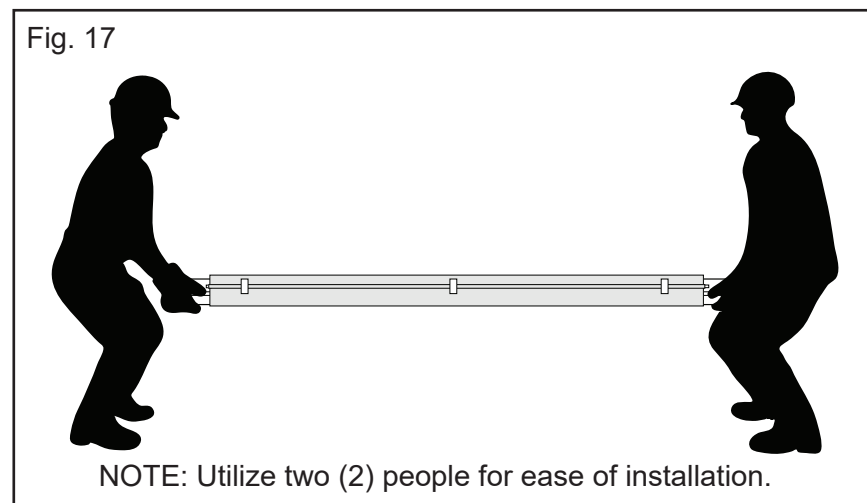
Step 6: Once the tarp is securly taped, lift the roller tube up and prepare to install in housing brackets (Fig. 17).

Fig. 18

Housing & Box
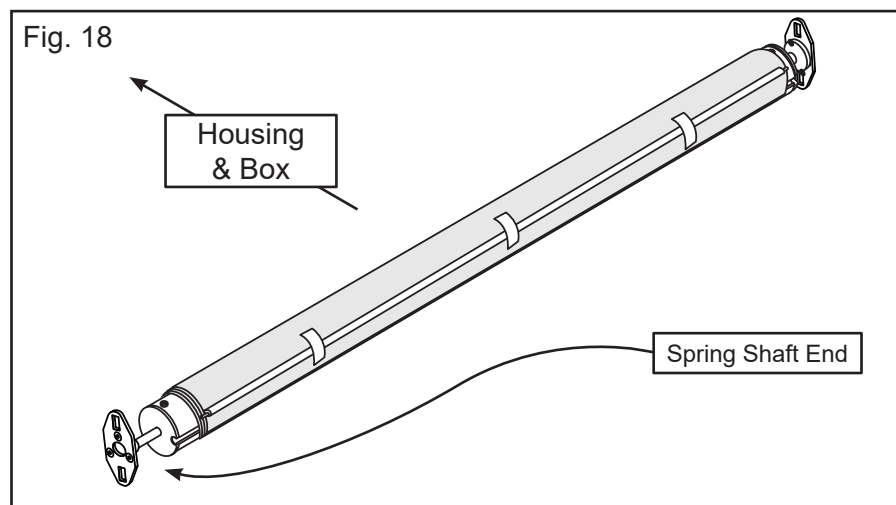
Spring Shaft End

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

Fig. 19

Spring Shaft End

Housing & Box

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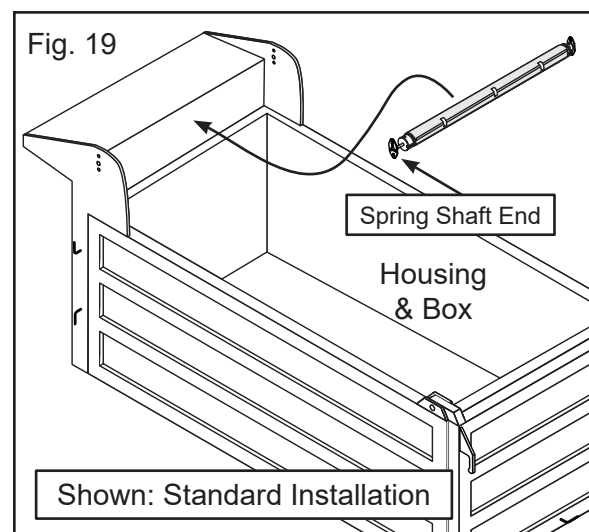
Step 8: With both team members holding the roller tube, position in front of housing (Fig. 19).

Installing Roller Tube, Adding Spring Tension & Attaching Pullrod

Fig. 20A

Slide tube & bracket into housing

Fig. 20B

Slide tube & bracket into housing

Fig. 21B

Counter Clockwise

Fig. 21A

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).
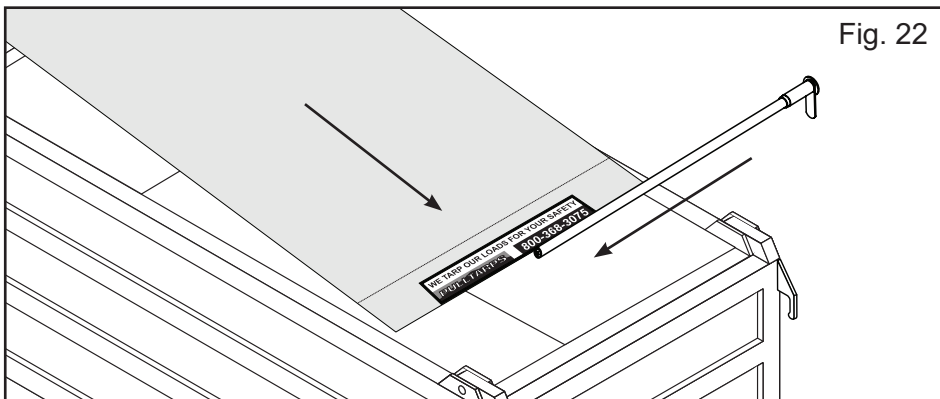
Fig. 22

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).
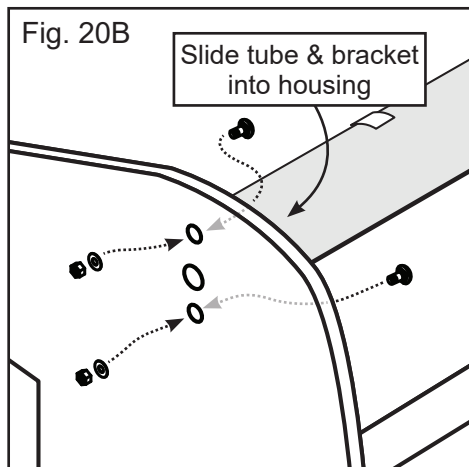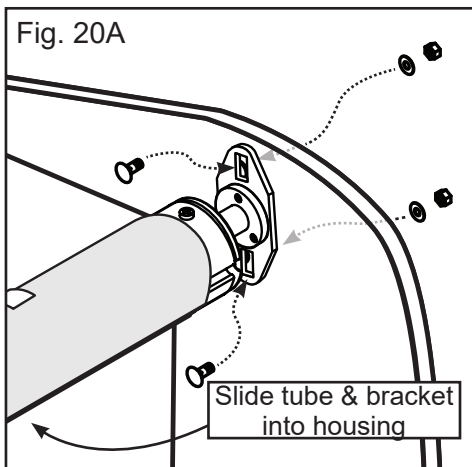NOTE: Use WD-40 to lubricate pullrod groove.
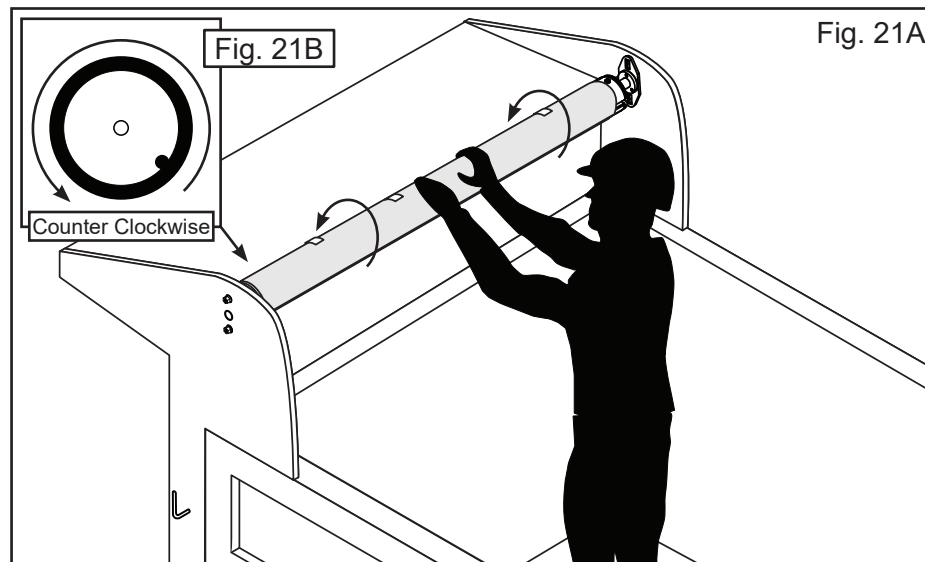
Step 10: While holding roller tube tightly, begin rolling tube and tarp in the direction of the container/box. Wind the roller tube a minimum of 15 times to increase the spring tension in roller tube (Fig. 21A & 21B).
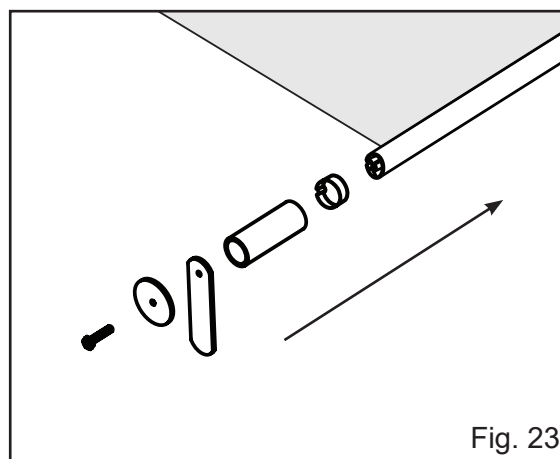
Step 12: With the tarp installed, now install the Pullrod Hardware kit (Fig. 23).

Fig. 23

Adding Pull Rope

Fig. 24

Roller Tube Assembly

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

Tarp Hooks with Pull Rope secured.

Fig. 25

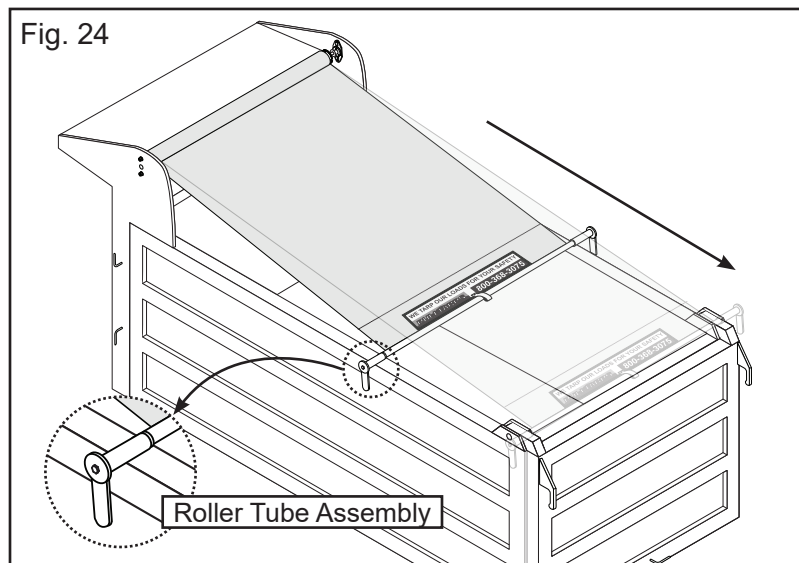Loop bungee cord through rope loop.
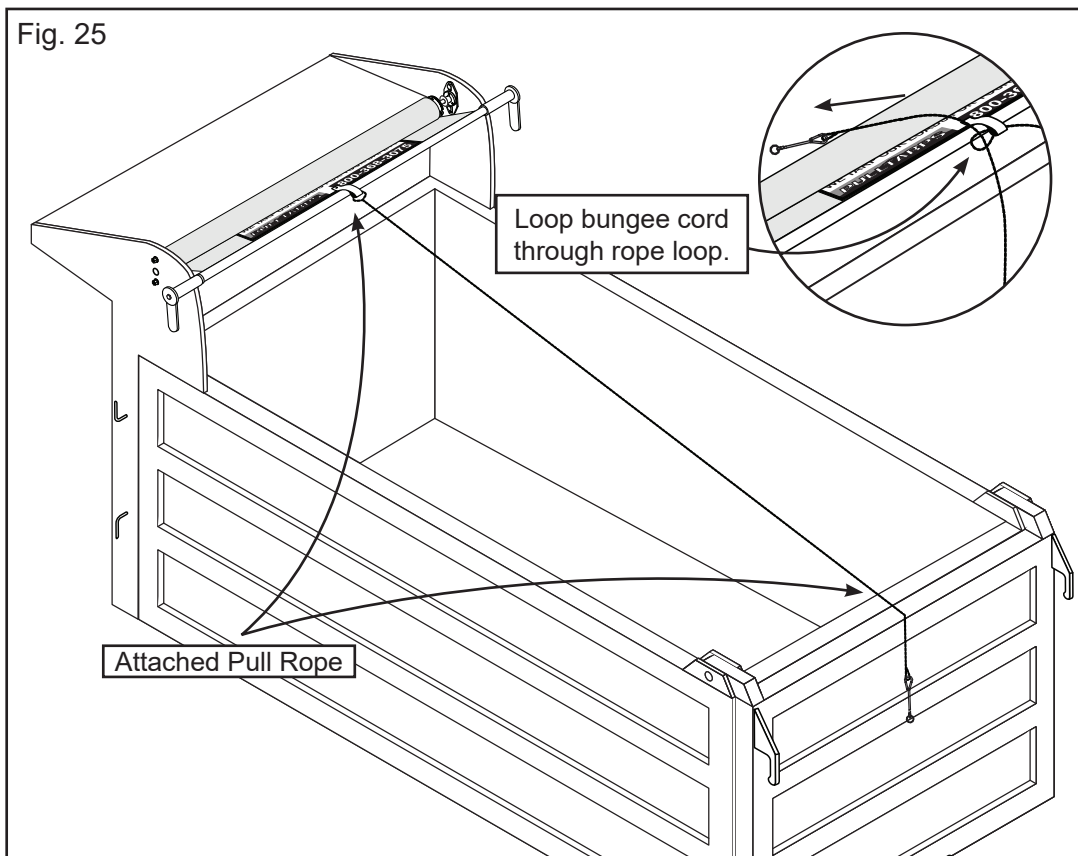
Attached Pull Rope

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).
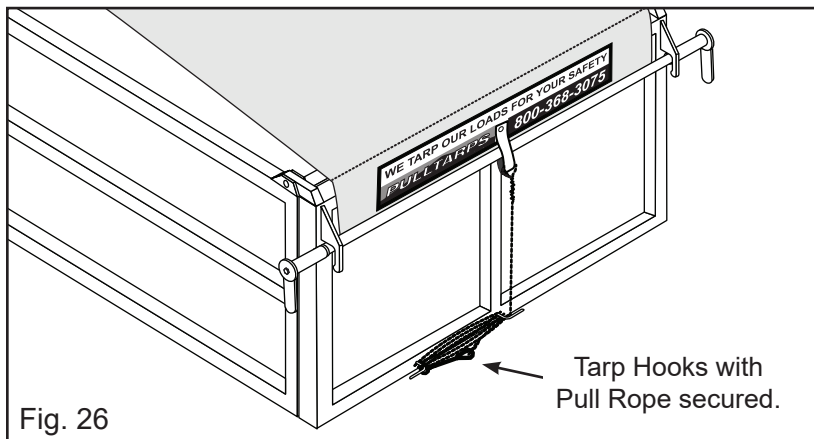
OVER THE TOP APPLICATION

Attaching Tarp to Roller Tube Assembly - Over The Top

Fig. 27
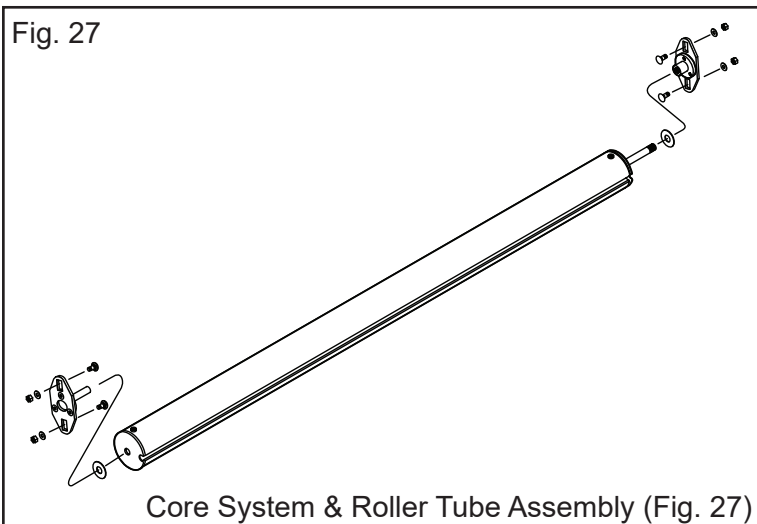
Core System & Roller Tube Assembly (Fig. 27)

Fig. 28A

Facing end of tarp.

Back of tarp

Shown: Over the Top Installation

Front of tarp with Wear Patch

WE TARP OUR LOADS FOR YOUR SAFETY
800-368-3075

Fig. 28B

Back of tarp

Fig. 28C

Fig. 29

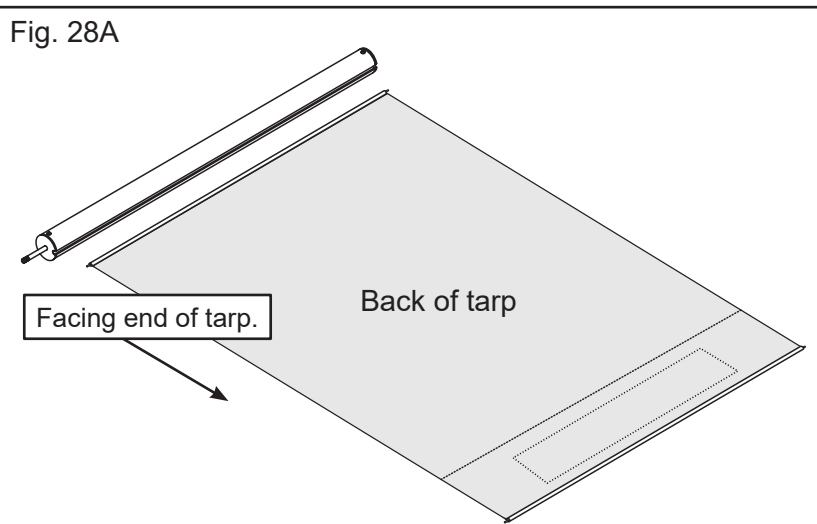Slide tarp into Roller Tube groove
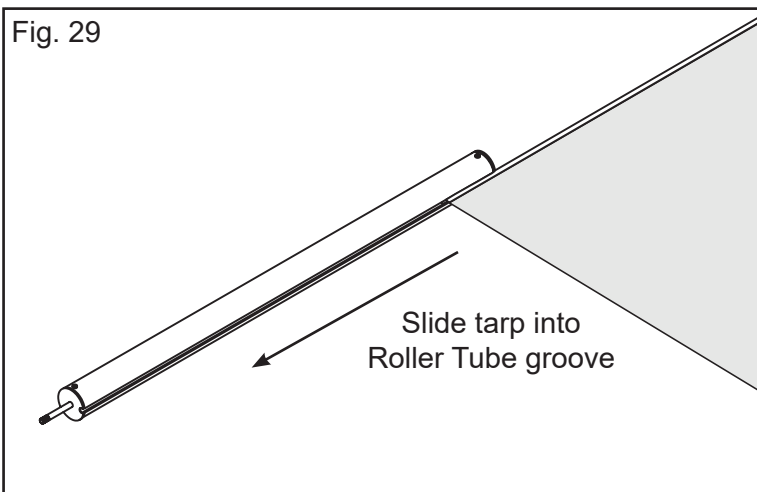
Step 1: Place tarp on the ground or large table and unroll flat. The back of the tarp should be facing up, showing only the Wear Patch stitching (Fig. 28A - 28C). At the opposite end of the wearpatch, place the roller tube on the ground with the roller tube spring assembly end on right side, facing the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

Roll up tarp.

Fig. 30

Fig. 31

Apply tape to keep tarp in place.

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).

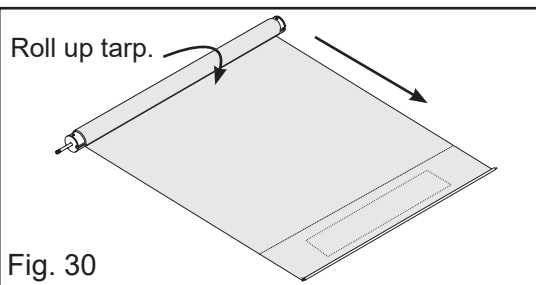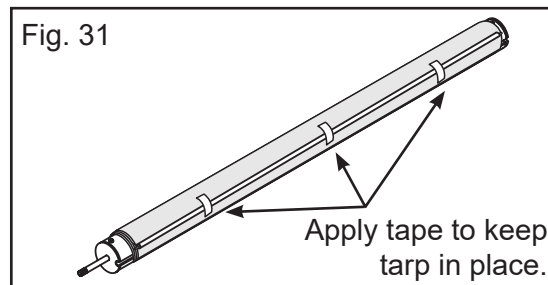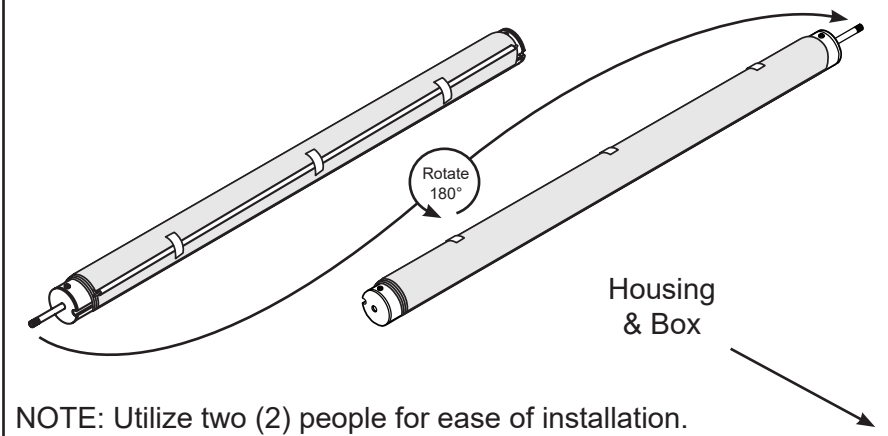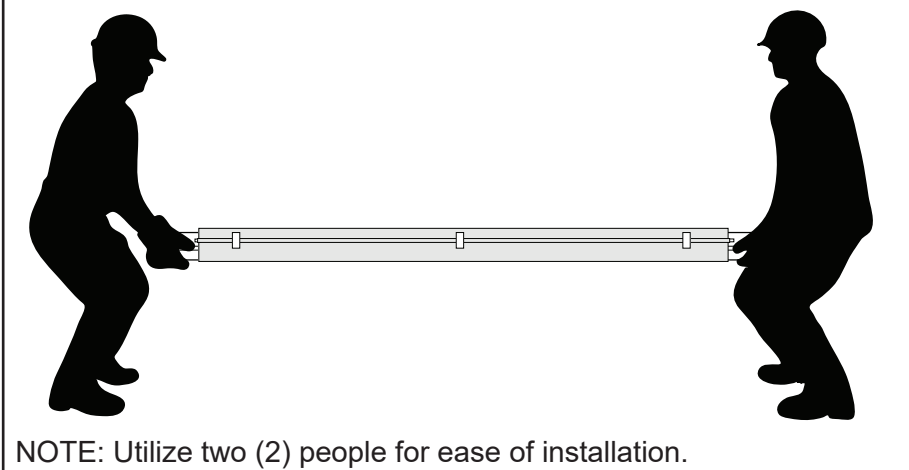## Installing Roller Tube, Adding Spring Tension & Attaching Pullrod

Fig. 32

Rotate 180°
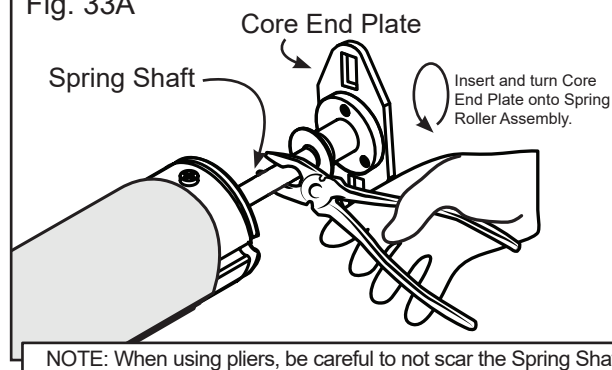
Housing & Box

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

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

Fig. 33A

Core End Plate

Spring Shaft

Insert and turn Core End Plate onto Spring Roller Assembly.

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

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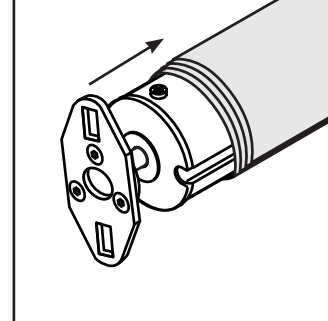
Step 6B: Next, insert the Universal Bolt Stud on the female side of the Roller Tube (Fig. 33B).

Fig. 34

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

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
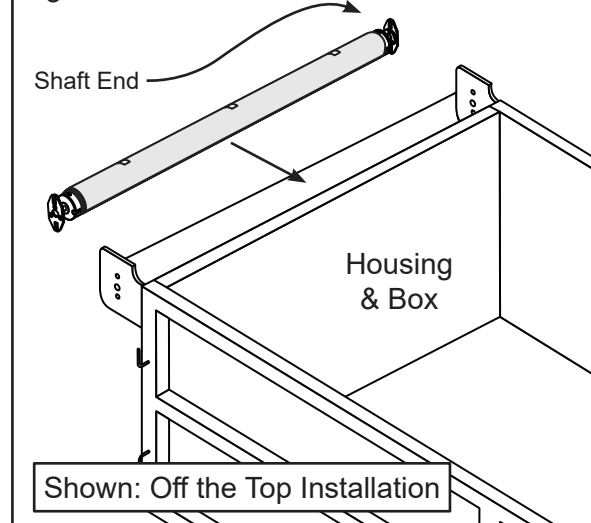
Shaft End

Housing & Box

Shown: Off the Top Installation

Installing Roller Tube, Adding Spring Tension & Attaching Pullrod

Fig. 36A

Slide tube & bracket into housing

Fig. 36B

Slide tube & bracket into housing

Fig. 37

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).

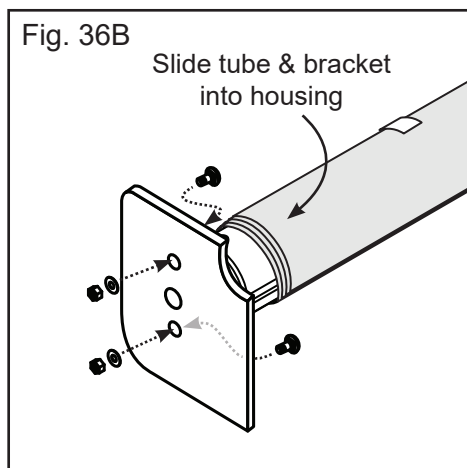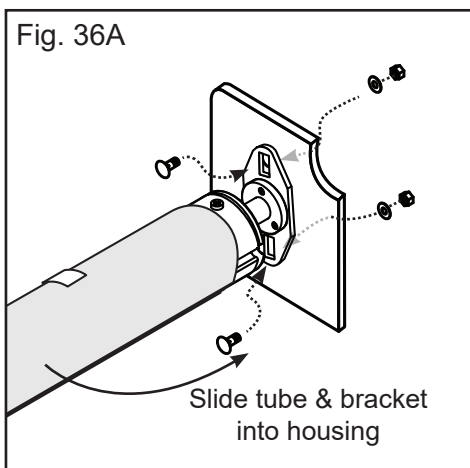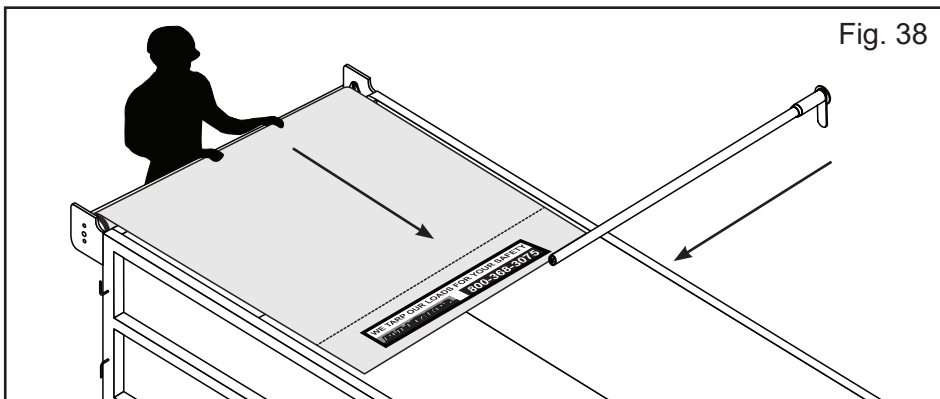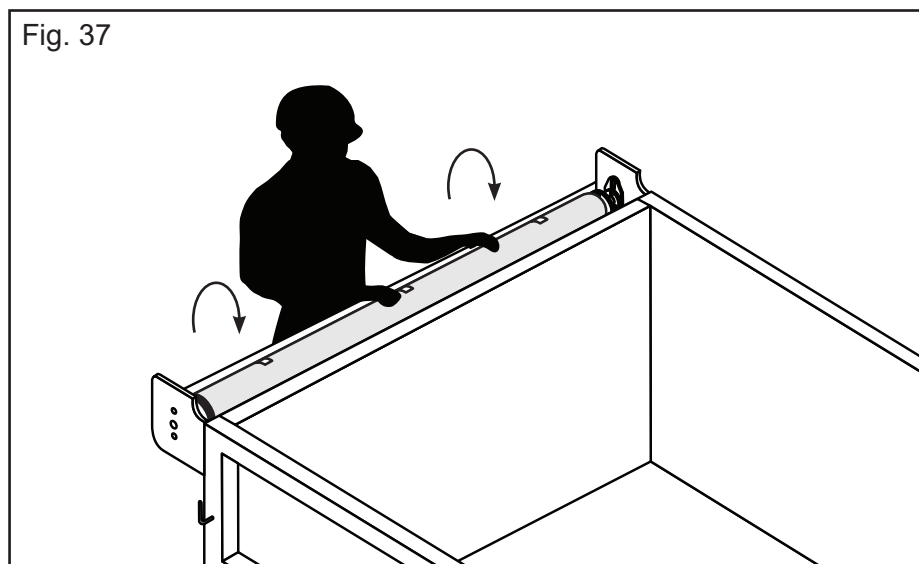**Step 10:** While holding roller tube tightly, begin rolling tube and tarp in the direction of the container/box. Wind the roller tube a minimum of 12 times to increase the spring tension in roller tube (Fig. 37).

Fig. 38

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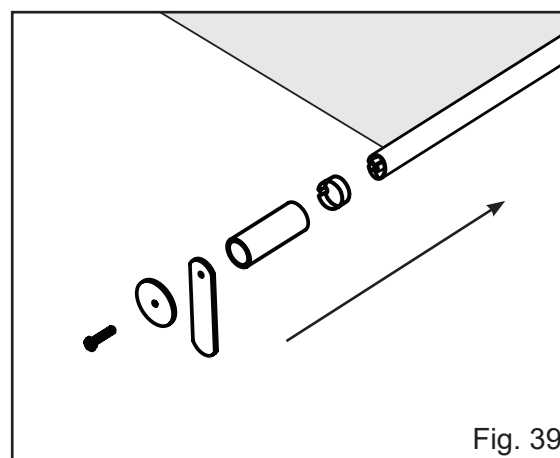
Step 12: With the pullrod fully installed, now attached the Pullrod Hardware kit (Fig. 39).

Fig. 39

Adding Pull Rope

Fig. 40

Roller Tube Assembly

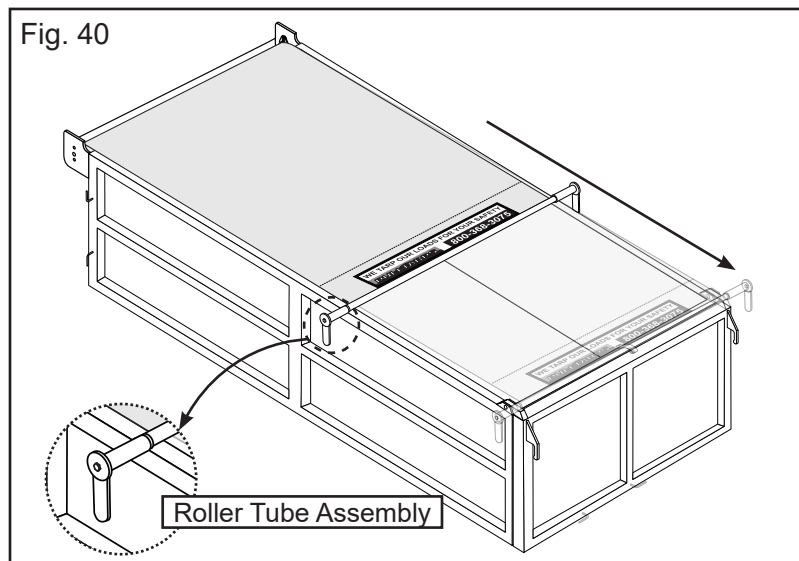**Step 13:** With a team member on each side, hold the roller tube assembly and extend tarp fully, to test the spring tension. Add additional turns if needed (Fig. 40).

Fig. 42

Tarp Hooks with Pull Rope secured.

Fig. 41

Loop bungee cord through rope loop.
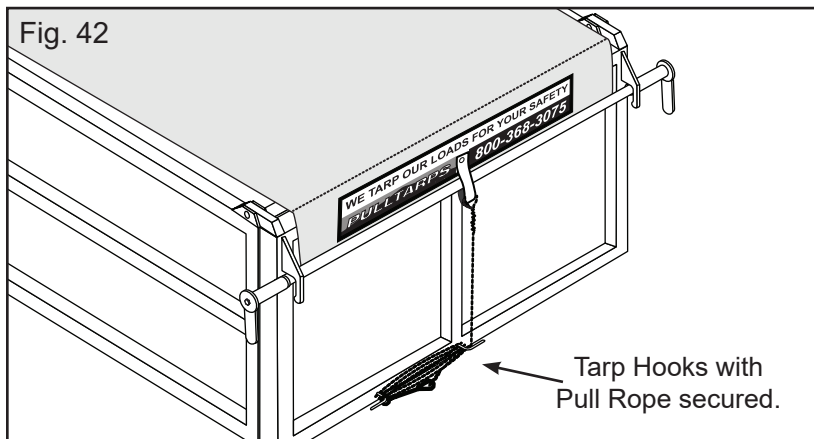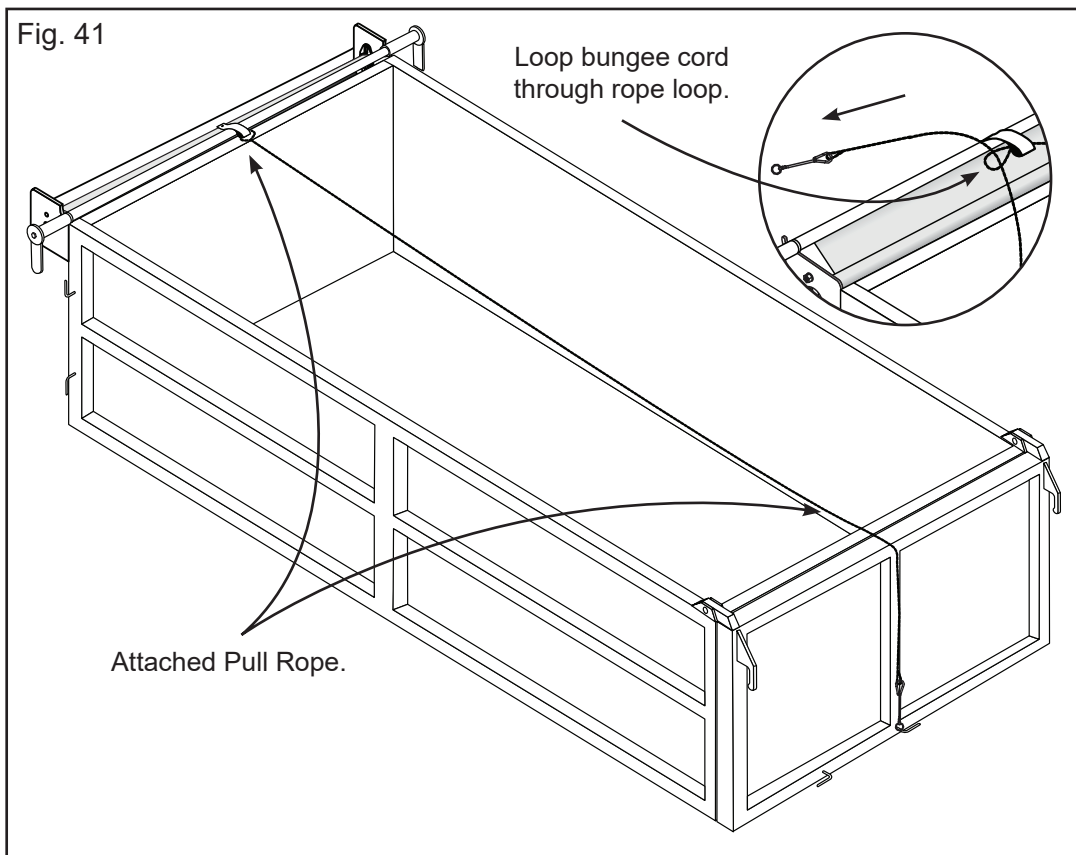
Attached Pull Rope.

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).

PULLTARPS®

1404 N. Marshall Ave. El Cajon CA. 92020

FLAP TARP, ROPE & HOOK INSTALLATION

Optional Flap Tarp, Rope and Hook Installation

Parts:

Tie Down Hooks (Steel or Alum.)

Pull Down Hook
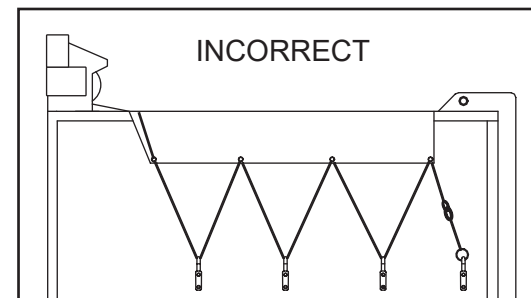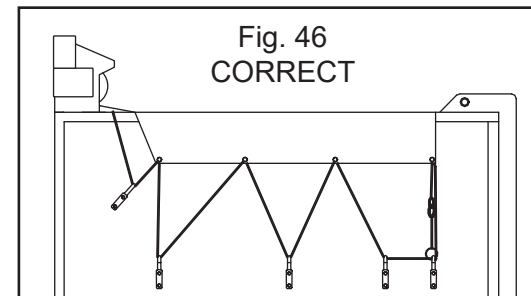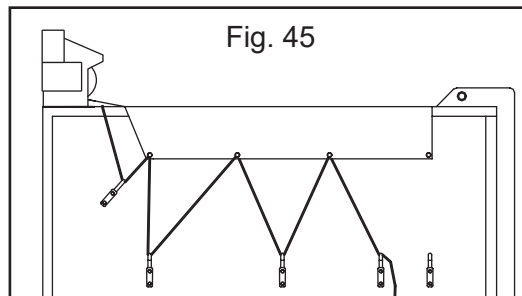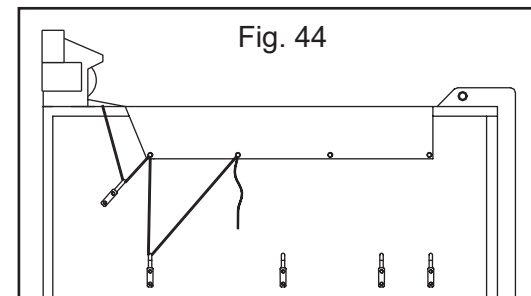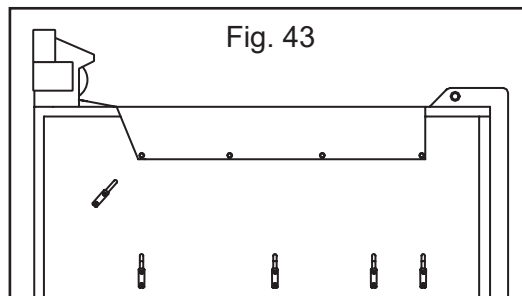
Note: The Location Of The Tie Down Hooks Is Critical!

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.

Fig. 43

Fig. 44

Fig. 45

Fig. 46
CORRECT

INCORRECT

Bungee Cord Installation

Parts:

2 Bungee Cords

2 Oval Compression Sleeves

1 Snap Clip

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.
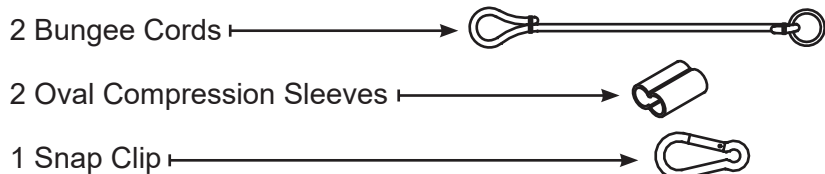
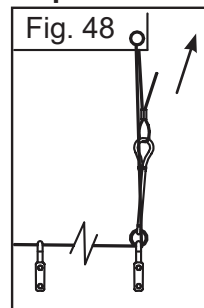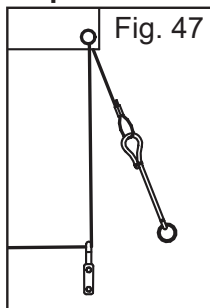**Step 2:** After side hooks are installed, the tie down rope must be installed and cut to proper length. It is important to get all of the slack out of the rope to prevent blowing and rubbing of flaps in windy conditions.

Tarps with Side Flaps

Fig. 47   Fig. 48

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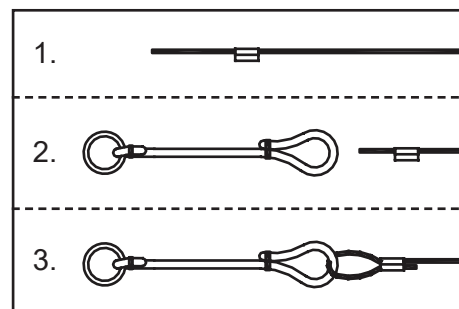
Note: Check for proper placement of rope through the last two hooks.

Excess Rope

Fig. 50

Snap Clip Installation

Fig. 49

Tailgate

2nd Snap Clip

1st Snap Clip   Top View
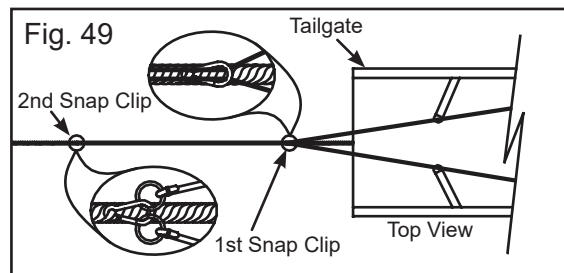
Flip the rope back on top of the tarp, making sure to hold the bungee at all times. The first snap clip is factory installed 5'-6" from the pullrod. Open the clip and enclose the rope. Weave the second clip through the main pullrope where the ends of the bungee cords meet the main pullrope. Make sure the rope is taught when clipped (Fig. 49).

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

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).

PARTS & TOOLS

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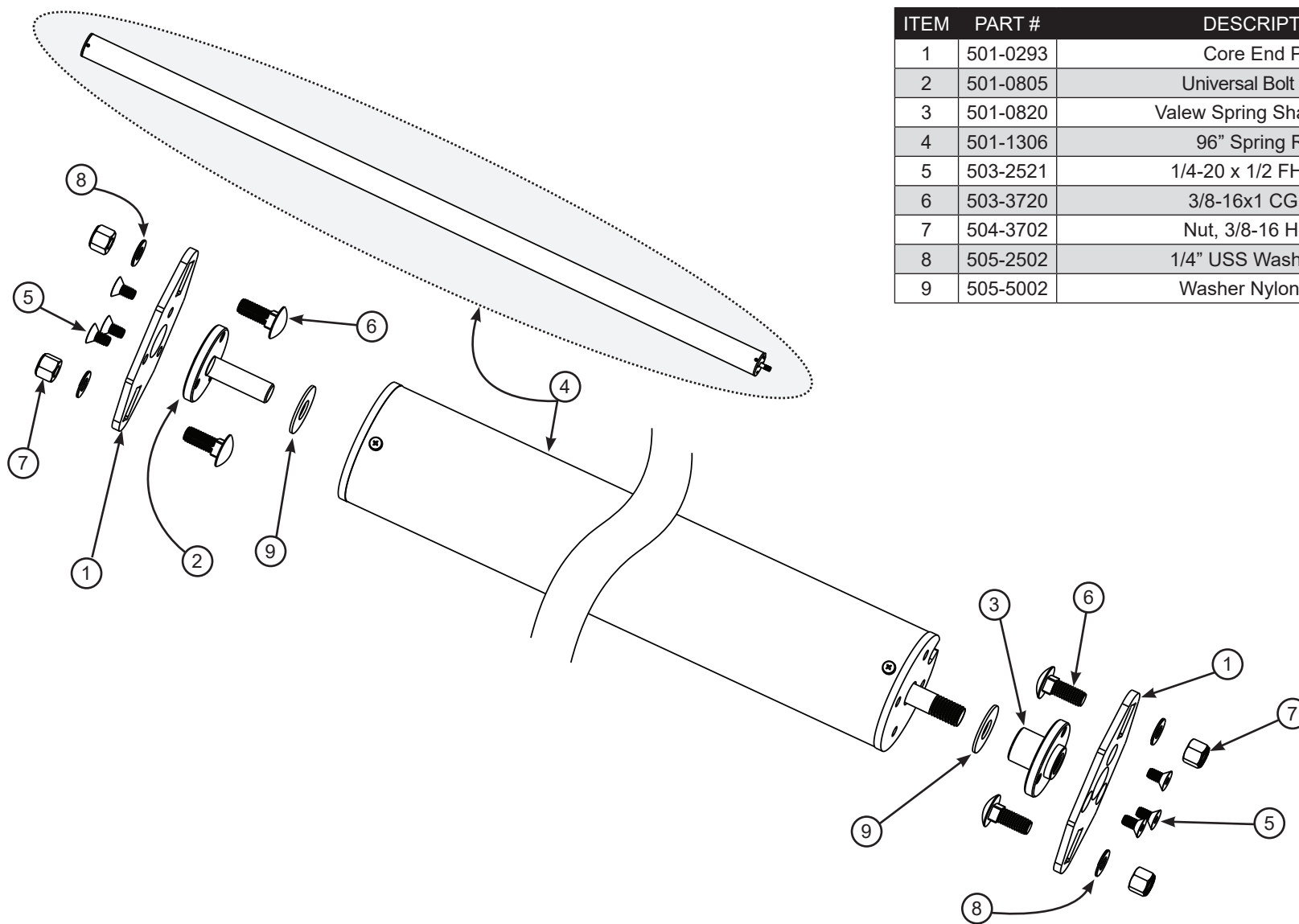
ITEM	PART #	DESCRIPTION	QTY
1	501-0293	Core End Plate	2
2	501-0805	Universal Bolt in Stud	1
3	501-0820	Valew Spring Shaft Anchor	1
4	501-1306	96" Spring Roller	1
5	503-2521	1/4-20 x 1/2 FH Socket	6
6	503-3720	3/8-16x1 CGE Bolt	4
7	504-3702	Nut, 3/8-16 Hex Nut	4
8	505-2502	1/4" USS Washer 5/16"	4
9	505-5002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

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PULLTARPS ®

1404 N. Marshall Ave. El Cajon CA. 92020

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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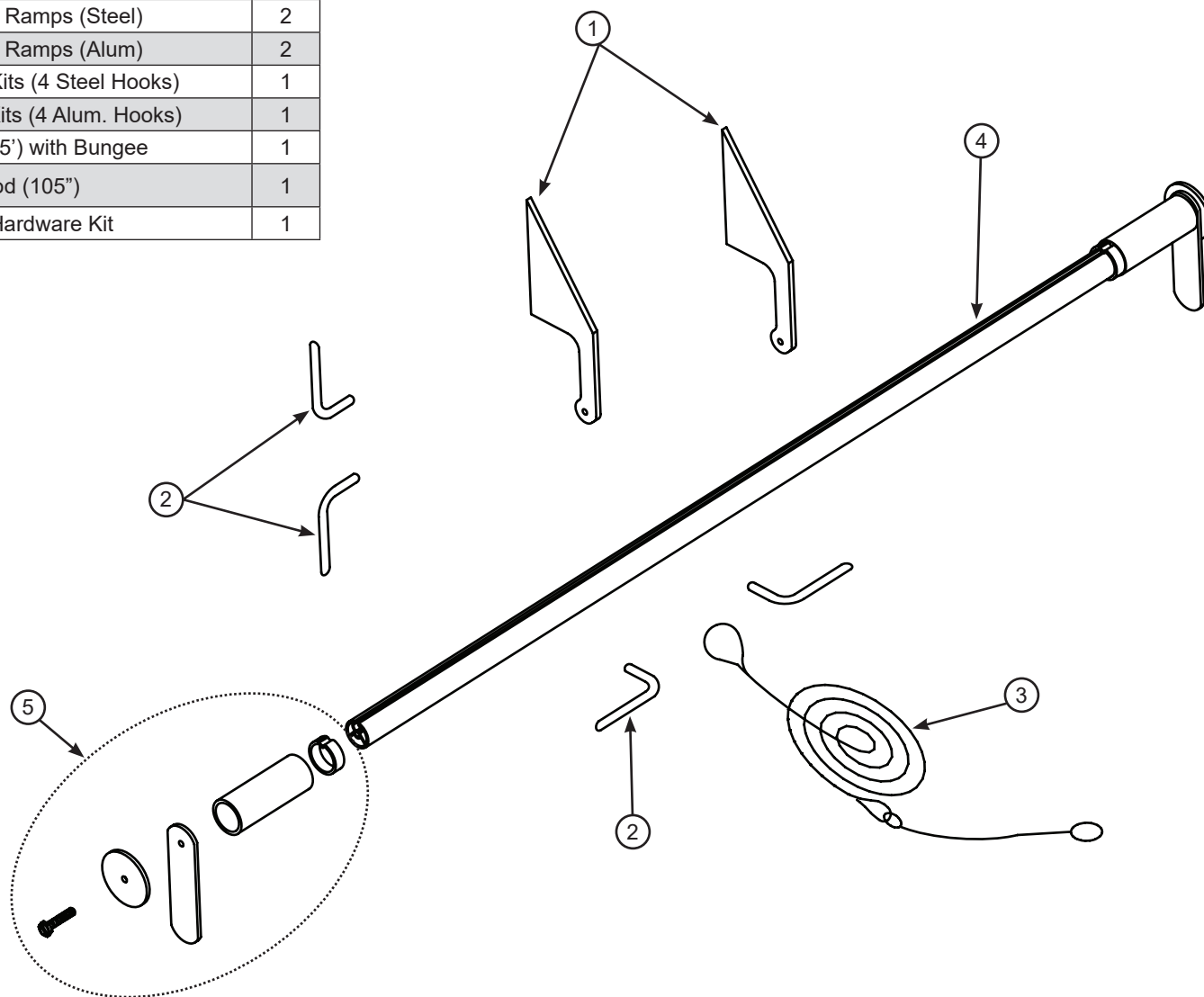
Required Tools

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

WLH 03/19/18