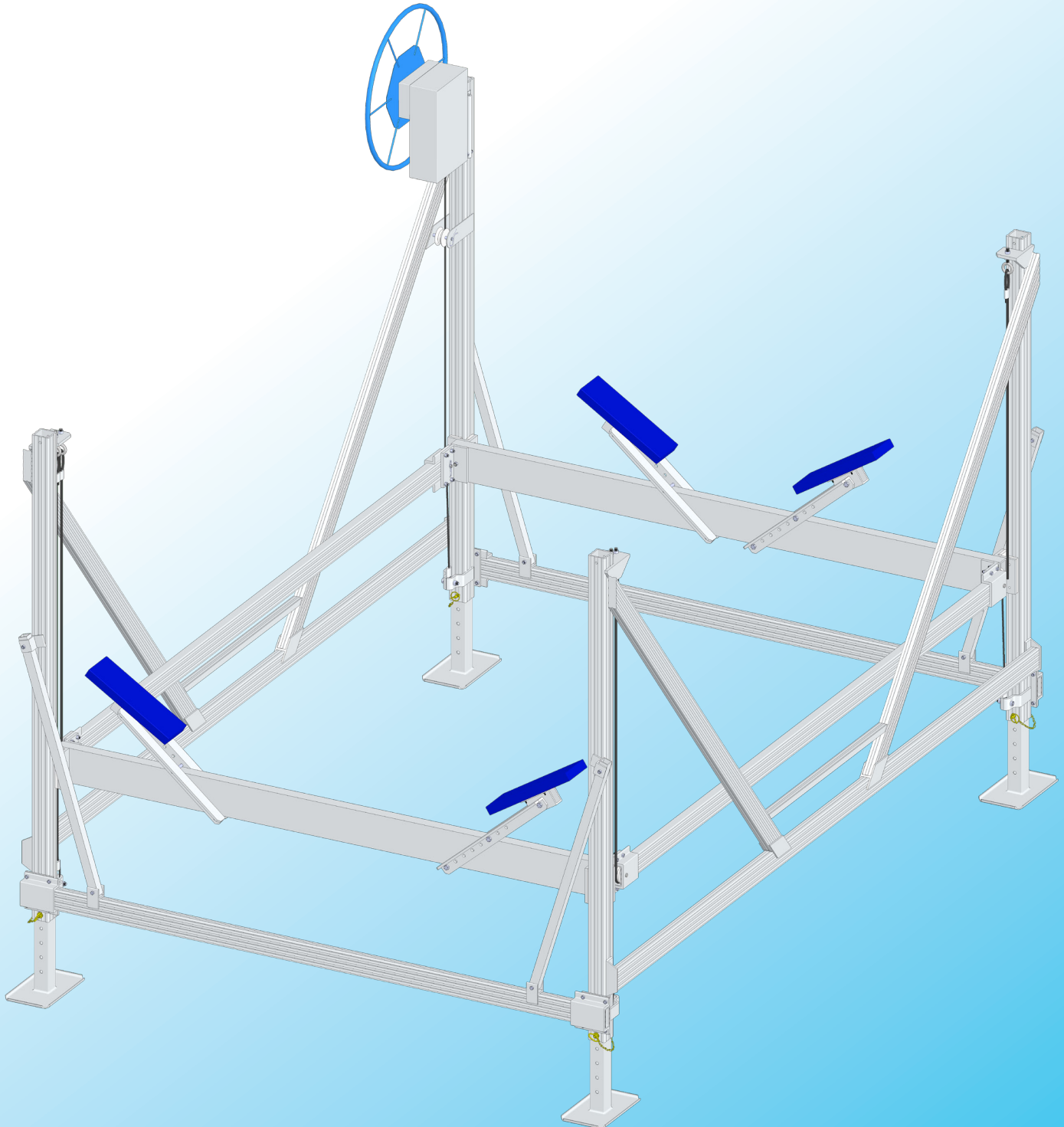


ASSEMBLY INSTRUCTIONS

Vertical Lift



Winch Instructions

Safety Information

1. The winch is built for the multipurpose of hauling and lifting operations. It is not to be used as a hoist for lifting, supporting, or transporting people, or for loads over areas where people could be present.
2. The winch should be operated and maintained in accordance with the instructions. Never allow children or anyone who is not familiar with the operation of the winch to use it. A winch accident could result in injury.
3. Check the winch for proper operation on each use. Do not use if damaged and seek immediate repairs.
4. Never exceed the rated capacity. An excess load could cause failure and may result in injury.
5. Never apply a load on the winch with the cable fully extended. Keep atleast three full turns of cable on the reel.
6. Secure load properly.

Winch Mounting

When mounting the winch to the Vibo lifts, be sure that the winch wheel hub is facing out away from the lift. Slide the winch on using the easy to use winch slide brackets as illustrated further in the instructions.

Assembly

Thread the winch wheel onto the winch drive shaft, be certain that a clicking sound is produced when the winch wheel is turned clockwise. Install the spring, shaft extension, washer and bolt on the end of the drive shaft. These parts may appear to serve no function, but they provide several important fail-safe features and should not be altered or removed.

Operating Instructions

Wind the cable on the winch reel by turning the winch wheel in a clockwise direction. This should produce a sharp loud clicking sound. The load will remain in position when the winch wheel is release. Wind cable off the winch reel by turning the winch wheel counter-clockwise (no noise will be produced). The load will remain in position when the winch wheel is released, but for extra security it is recommended that the wheel be turned clockwise at least two clicks. This will add extra tightness to the brake mechanism. Always assure yourself that the winch is holding the load before releasing the winch wheel.

Tools Required

- Pair of $\frac{9}{16}$ " Wrenches
 - $\frac{5}{32}$ " Alan Wrench
- Pair of $\frac{3}{4}$ " Wrenches

Procedure 1A

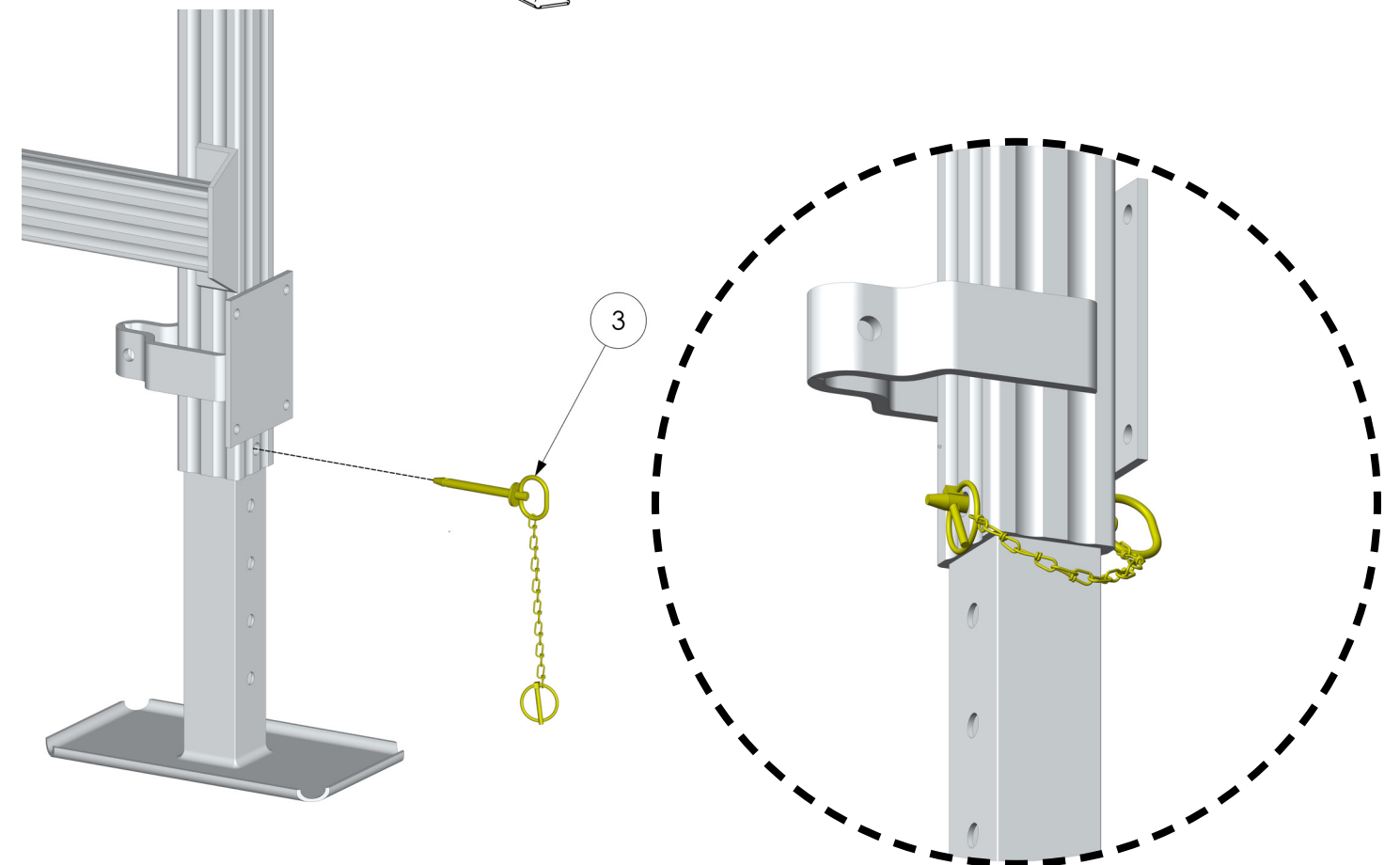
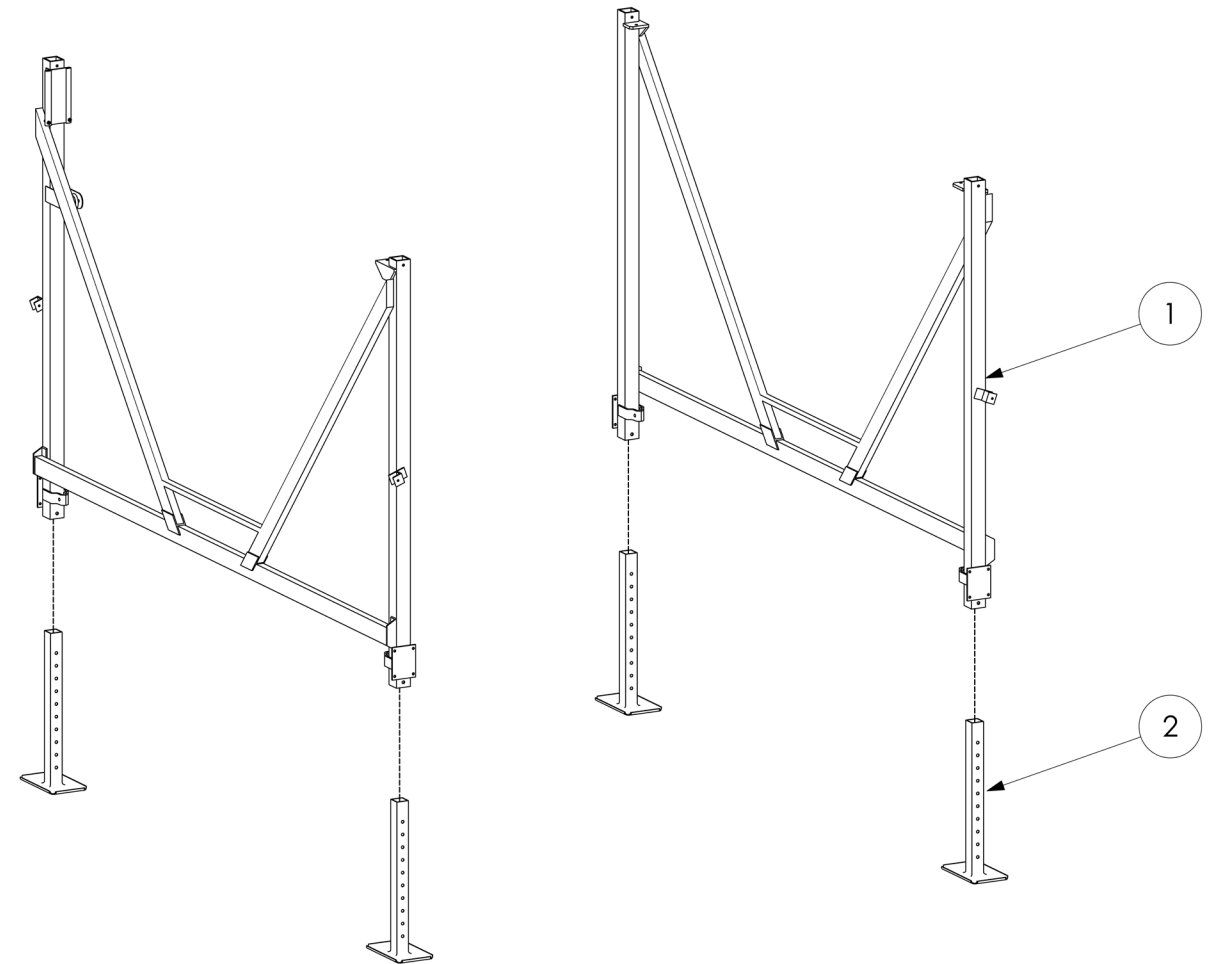
Lift Legs

If your lift has screw jacks, skip to **PROCEDURE 2A.**

(STEP 1A) Insert the lift legs (*item #2*) into the bottom of the lift side frames (*item #1*).

(STEP 2A) To adjust the legs, lift the side frame to the desired height and insert the pin (*item #3*). Clip the spring loaded lock on the pin to keep it from falling out, as shown in the figure.

ITEM NUMBER	PART NUMBER	QUANTITY
1	Side Frame	2
2	Lift Leg	4
3	Pin	4

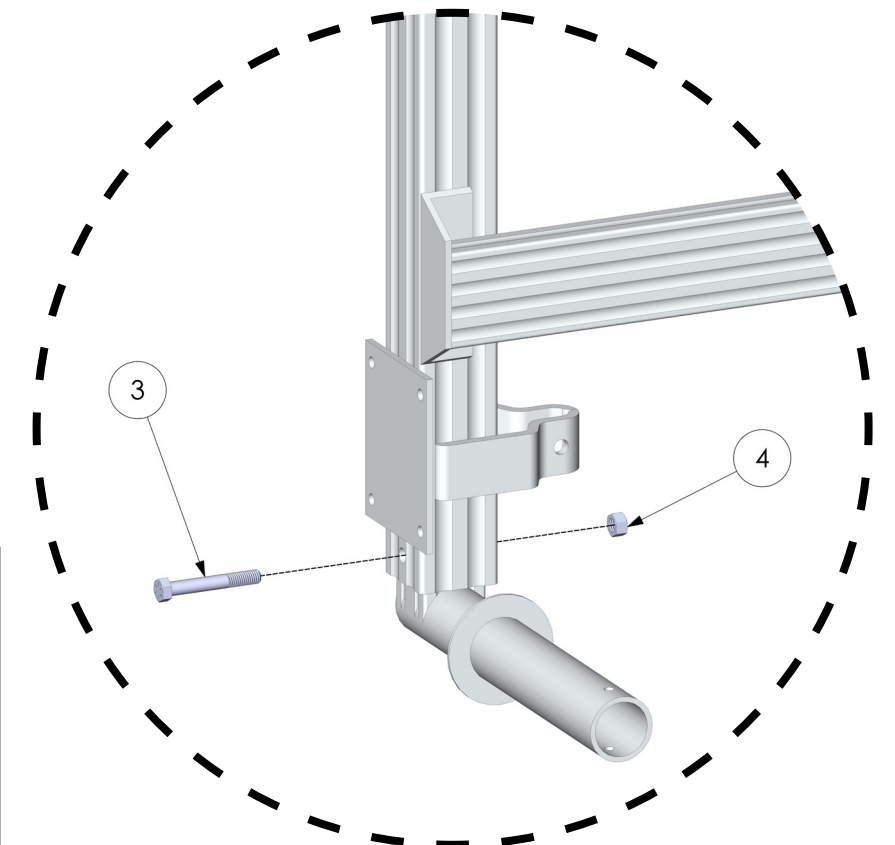
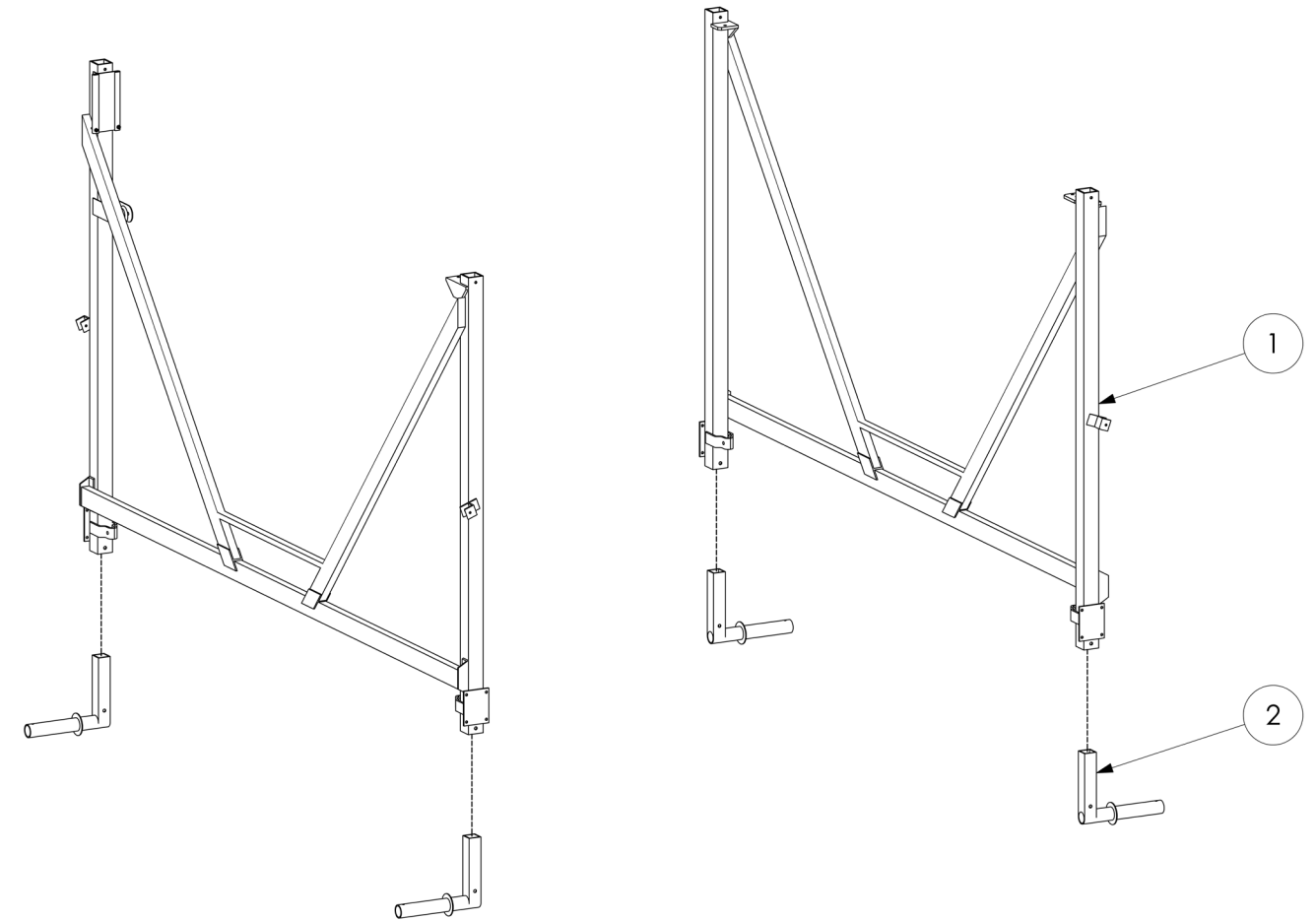


Procedure 1B

Stub Axles

(STEP 1B) Insert the stub axles (*item #2*) into the bottom of the lift side frames (*item #1*). Ensure the axles are pointed towards the outside of the lift.

(STEP 2B) Insert four $\frac{1}{2}$ " x 3 $\frac{1}{2}$ " bolts (*item #3*) through the holes in the lift posts, through the holes in the stub axles, and fasten with four $\frac{1}{2}$ " nuts (*item #4*).

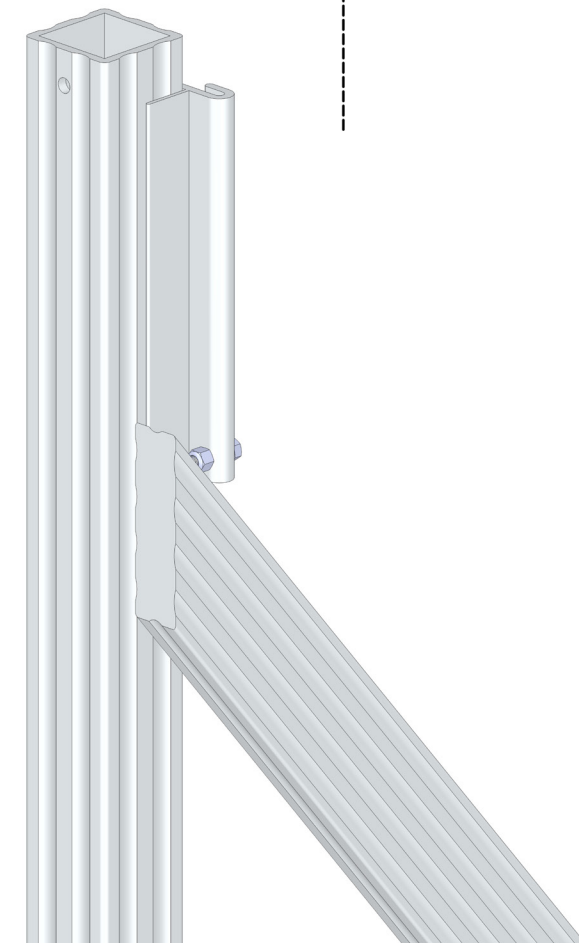


ITEM #	PART NUMBER	Qty.
1	Side Frame	2
2	Stub Axle	4
3	$\frac{1}{2}$ " x 3 $\frac{1}{2}$ " Bolt	4
4	$\frac{1}{2}$ " Nut	4

Procedure 2

(STEP 3) Slide the winch into the winch slide bracket as illustrated in the figure, and be sure that the winch shaft hub is facing the outside of the lift. For ease of assembly, it is best to mount the winch onto the side frames **BEFORE** raising the lift side frames into upright position.

**FOR CHAIN DRIVE WINCH FOLLOW SAME
PROCEDURE**



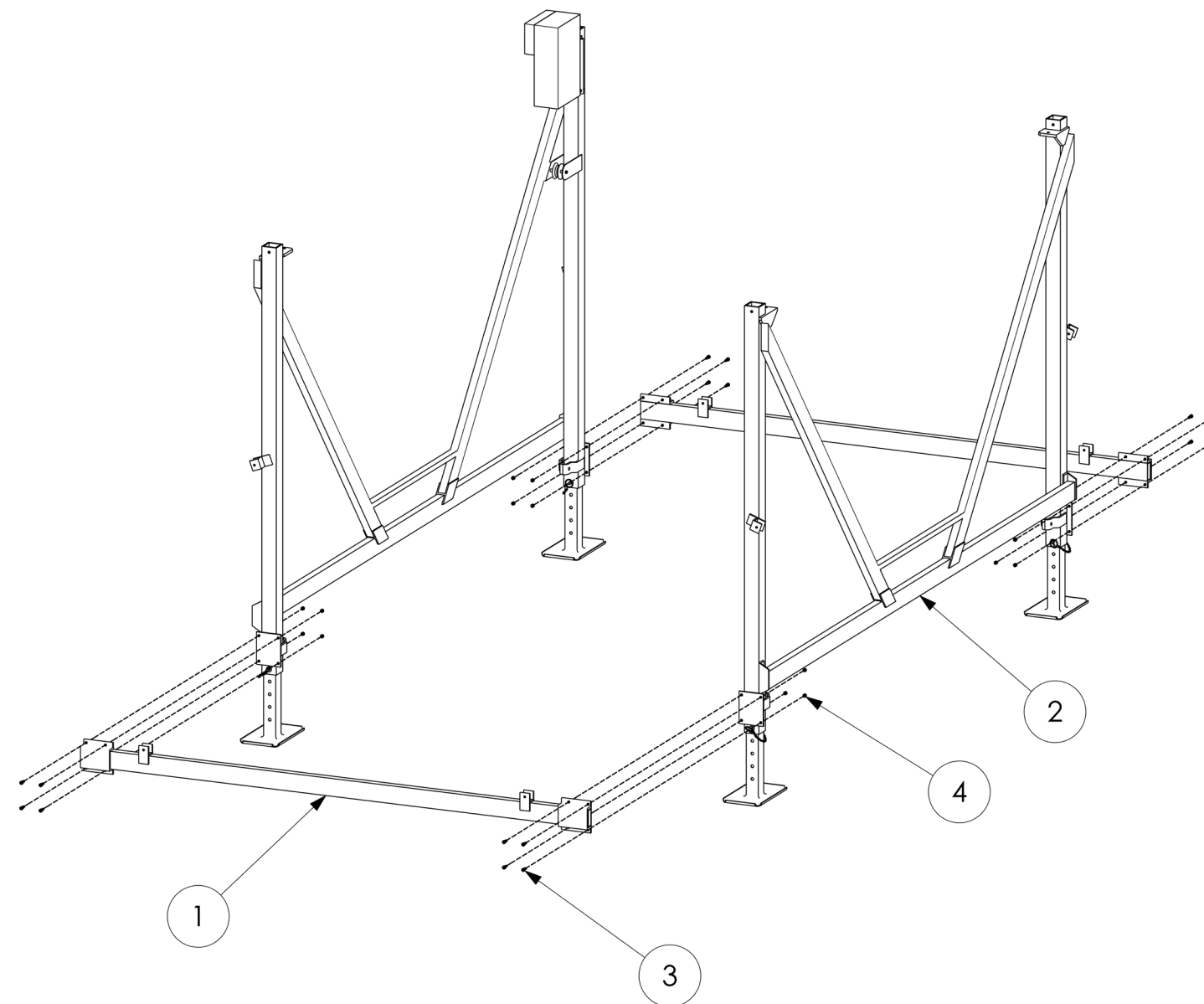
Procedure 3A

Lift Legs

If your lift has screw jacks, skip to
PROCEDURE 3B

(STEP 4A) Using the sixteen $\frac{3}{8}$ " x 1" bolts (item# 3) and corresponding $\frac{3}{8}$ " nuts (item #4), mount the two spreader bars (item #1) to the two side frames (item #2). Be sure that the tabs for the support arm are facing in the upright position as shown in the figure.

*****DO NOT TIGHTEN BOLTS UNTIL ASSEMBLY IS COMPLETED*****



ITEM NUMBER	PART NUMBER	QUANTITY
1	Spreader Bar	2
2	Side Frame	2
3	$\frac{3}{8}$ " X 1" Bolt	16
4	$\frac{3}{8}$ " Nut	16

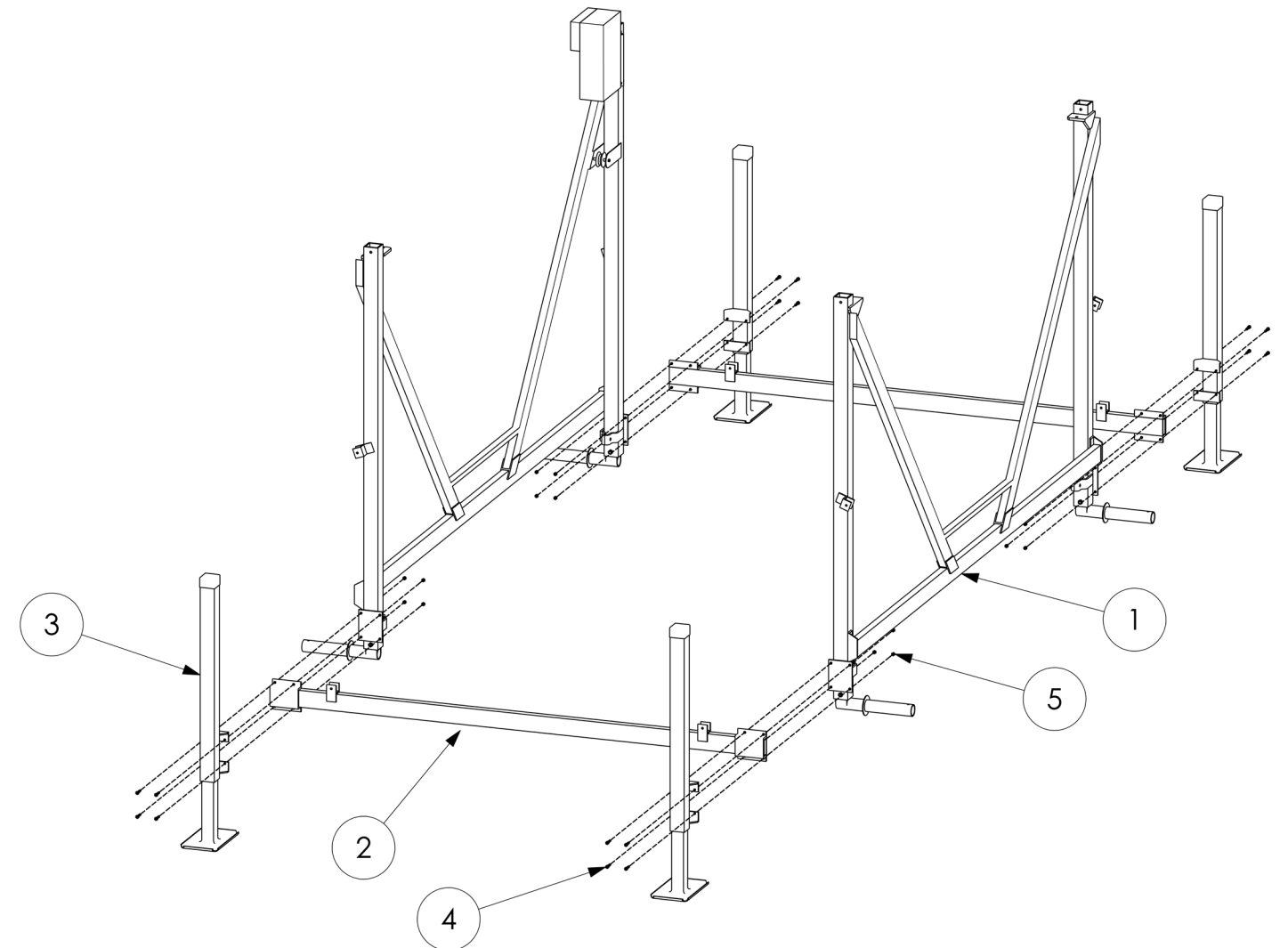
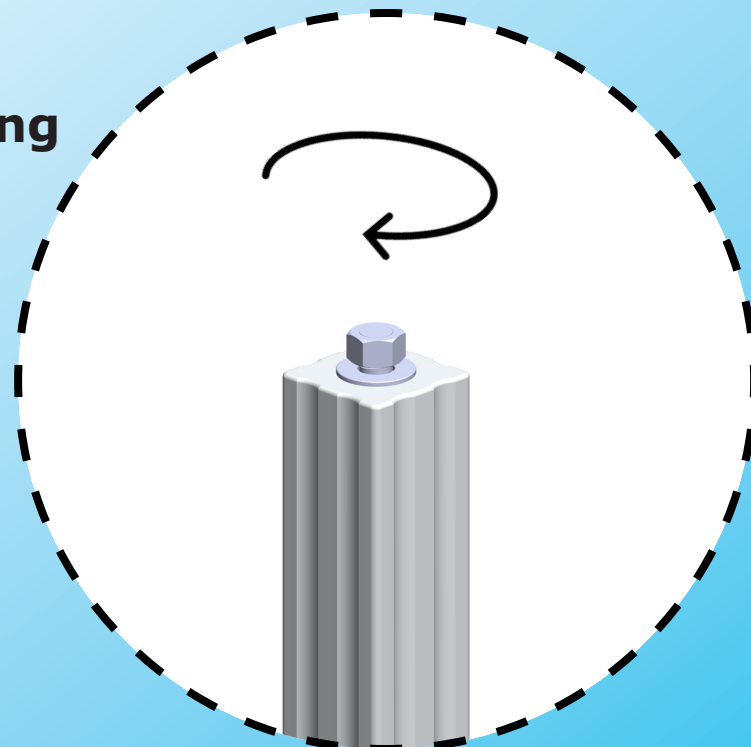
Procedure 3B

Screw Jacks

(STEP 4B) Using the sixteen $\frac{3}{8}$ " x 1 $\frac{1}{2}$ " bolts (item #4) and sixteen $\frac{3}{8}$ " nuts (item #5), mount the two spreader bars (item #2) to the two side frames (item #1) along with the screw jacks (item #3). Be sure that the tabs for the support arm are facing in the upright position as shown in the figure.

*****DO NOT TIGHTEN BOLTS UNTIL ASSEMBLY IS COMPLETED*****

NOTE: To adjust the resting height of the lift, remove the blue rubber caps on the screw jacks and rotate the jack nut using a 1 $\frac{1}{4}$ " SOCKET. Clockwise to raise the lift and counterclockwise to lower.



ITEM NUMBER	PART NUMBER	QUANTITY
1	Side Frame	2
2	Spreader Bar	2
3	Screw Jack	4
4	$\frac{3}{8}$ " X 1 $\frac{1}{2}$ " Bolt	16
5	$\frac{3}{8}$ " Nut	16

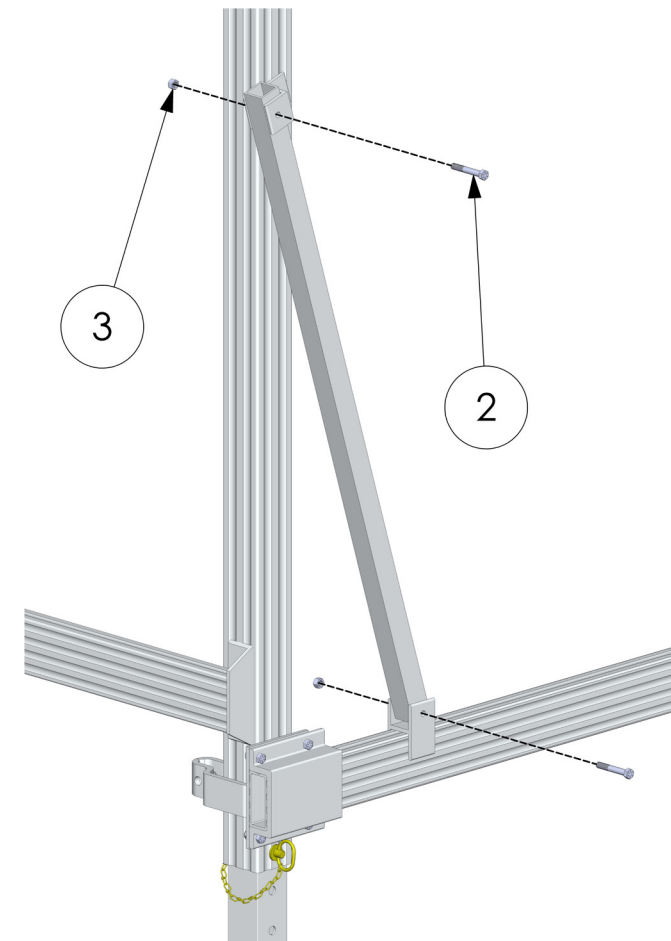
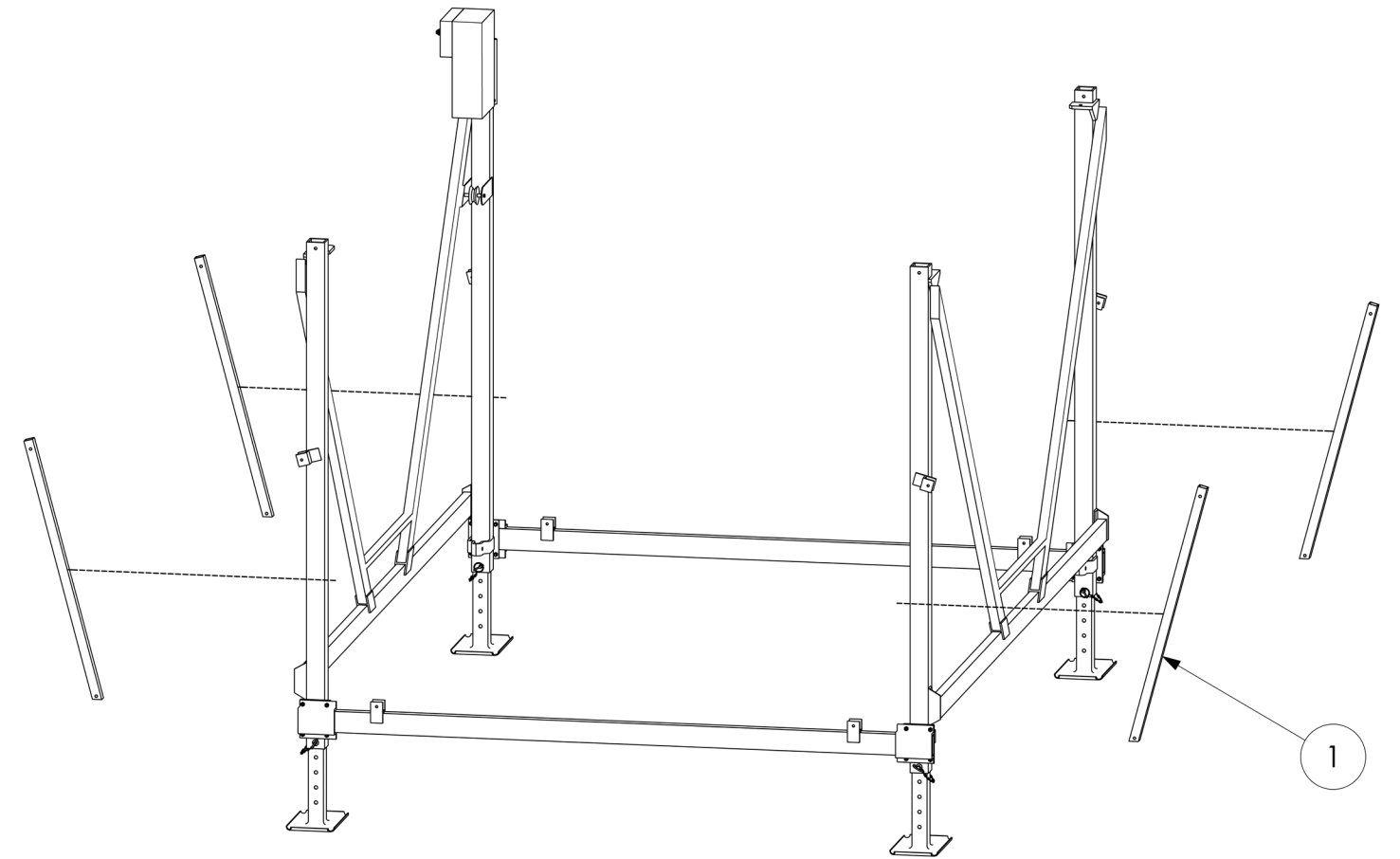
Procedure 4 Support Bars

(STEP 5) Place the support bars (*item #1*) into the tabs on the spreader arm and the tabs on the side frames as shown in the figure.

Fasten each support arm with two $\frac{3}{8}$ " x 2 $\frac{1}{2}$ " bolts (*item #2*) and two $\frac{3}{8}$ " nuts (*item #3*).

Repeat this procedure on all four corners.

*****DO NOT TIGHTEN BOLTS UNTIL ASSEMBLY IS COMPLETED*****



ITEM #	PART NUMBER	Qty.
1	Support Bar	4
2	$\frac{3}{8}$ " X 2 $\frac{1}{2}$ " Bolt	8
3	$\frac{3}{8}$ " Nut	8

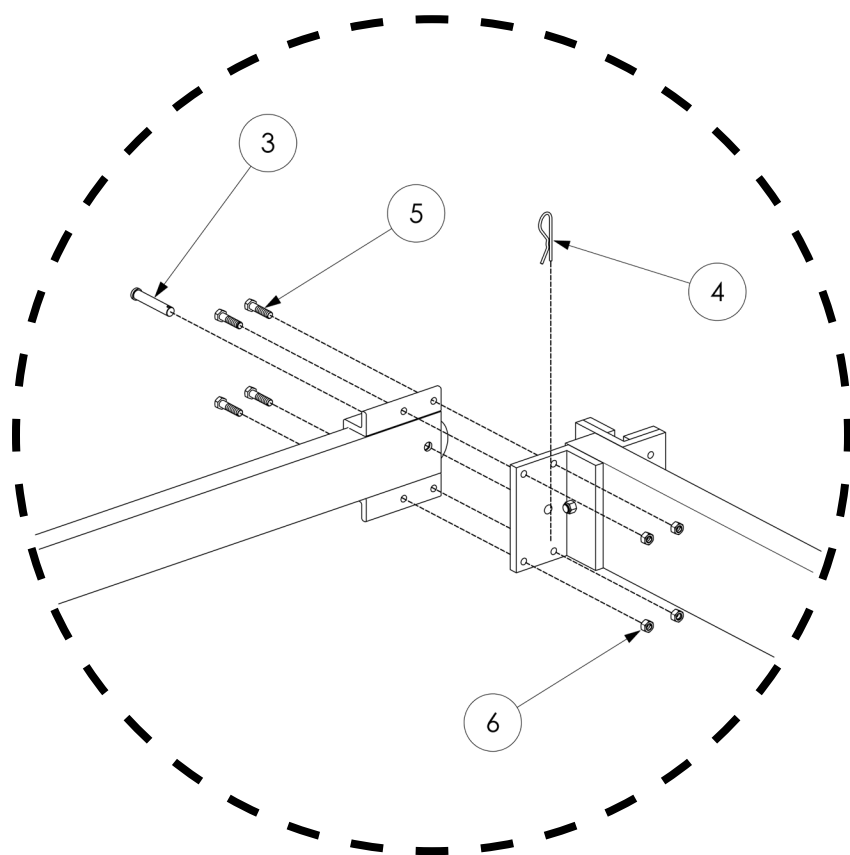
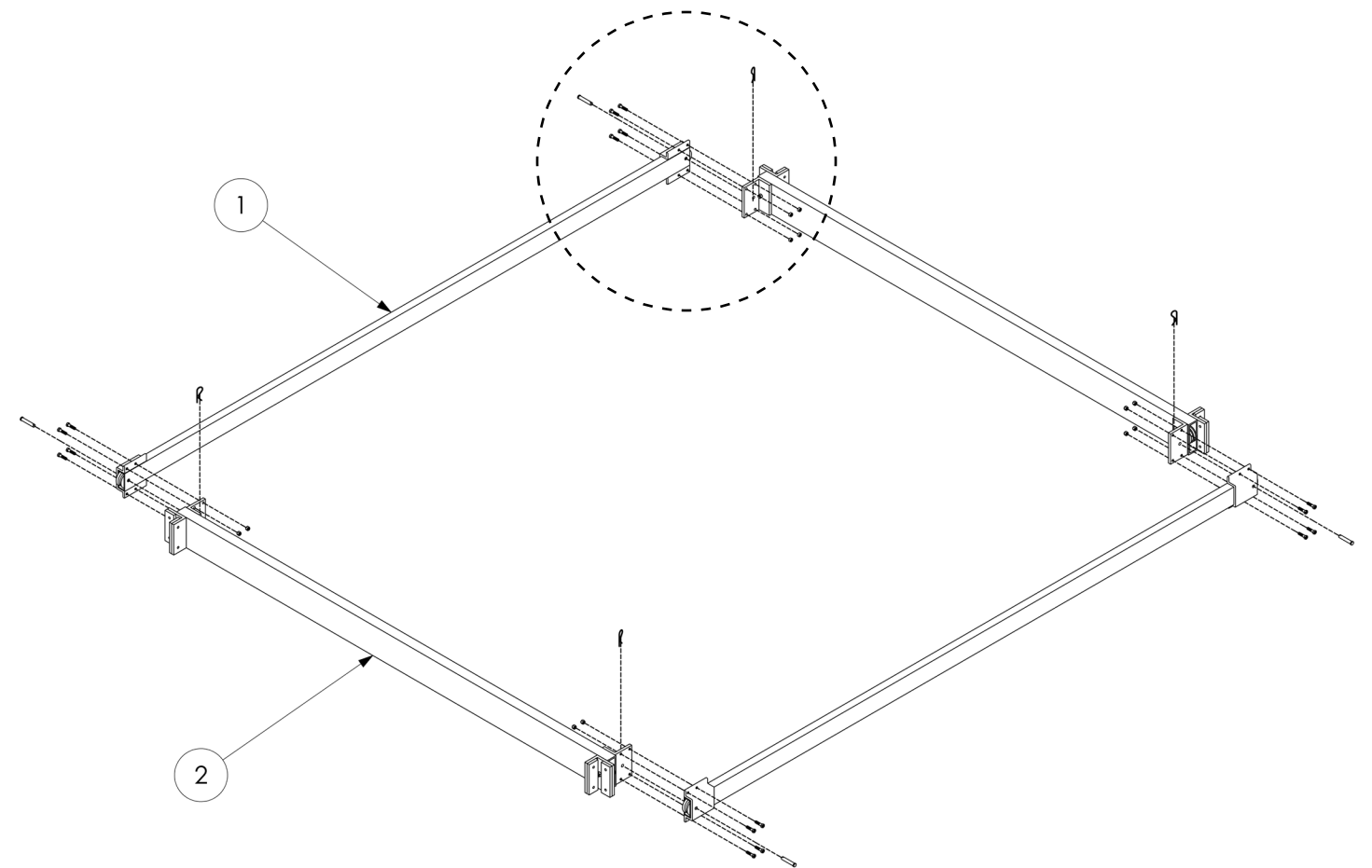
Procedure 5

Load Beam Section Assembly

(STEP 6) When assembling the load beam section be sure to **ASSEMBLE INSIDE THE FRAME OF THE LIFT** that is already put together. To ensure that the corners of the platform match up to the corners of the lift frame, each corner will have a colored dot sticker. Match the colored dot on the platform to the colored dot on the frame.

Hold the end of the runners (*item #1*) up to the end of the load bearing cross beam (*item #2*) and insert the clevis pin (*item #3*), then secure the pin in place with the cotter pin (*item #4*). Once the pins are in, insert the $\frac{3}{8}$ " x 1 $\frac{1}{2}$ " bolts (*item #5*) and fasten using $\frac{3}{8}$ " nuts (*item #6*). Once all the bolts are in, tighten.

*****NOTE: ENSURE THAT THE OPEN END CABLE IS PLACED BELOW THE WINCH*****



ITEM #	PART NUMBER	Qty.
1	Runner	2
2	Load Bearing Cross Beam	2
3	Clevis Pin	4
4	Cotter Pin	4
5	$\frac{3}{8}$ " x 1 $\frac{1}{2}$ " Bolt	16
6	$\frac{3}{8}$ " Nut	16

Procedure 6

Winch Assembly

(STEP 7) Attach the cable (*item #1*) to the winch using the cable clamp as illustrated in the figure.

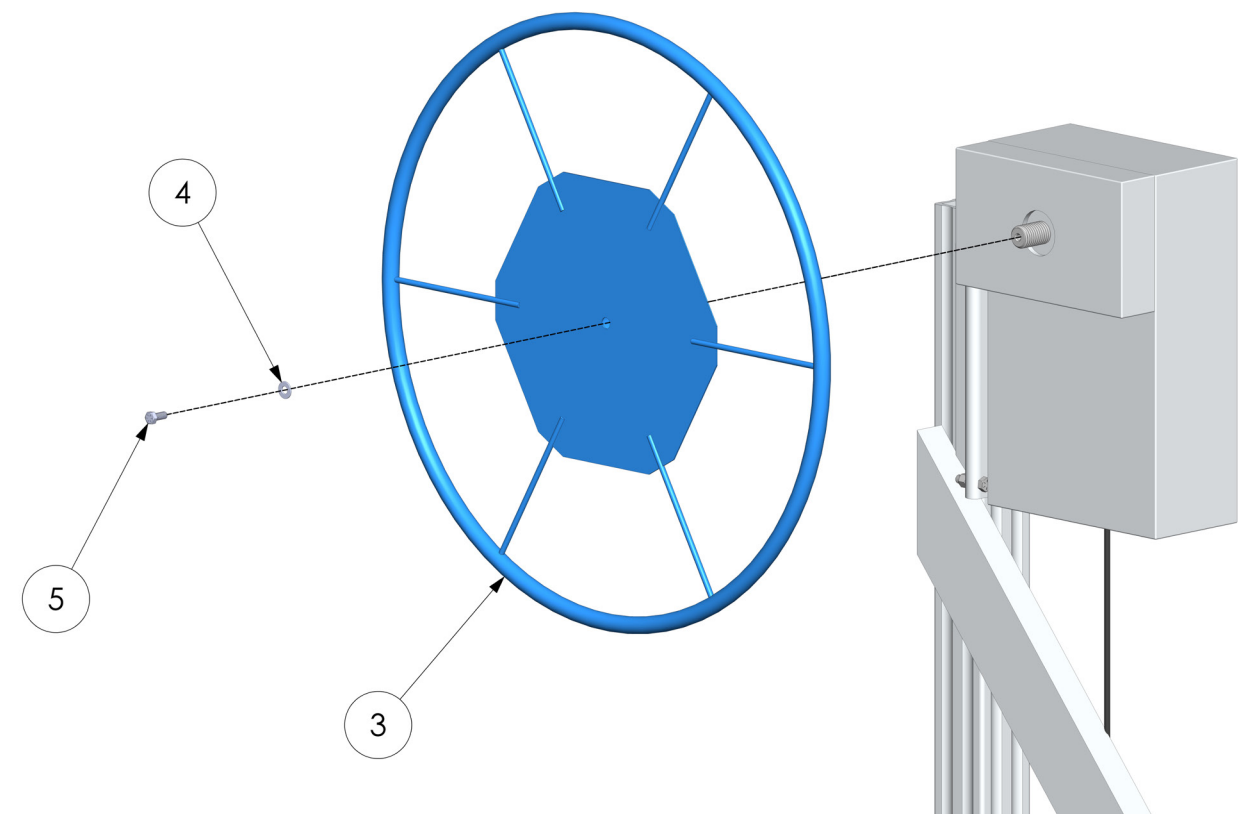
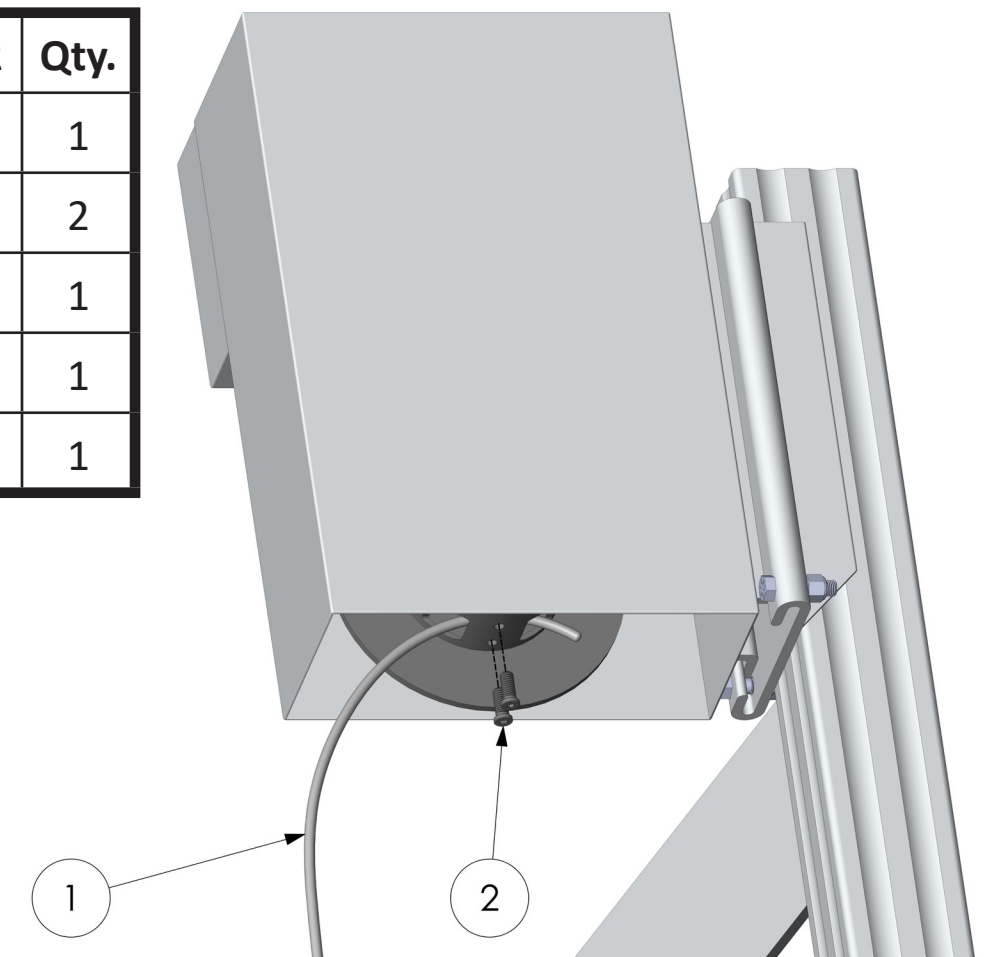
Tighten down the clamp screws (*item #2*) using a $\frac{5}{32}$ " drive alan wrench.

Pull down on the cable to ensure that the cable is clamped securely in place.

(STEP 8) To mount the winch wheel (*item #3*), place the wheel on the shaft of the winch and turn the wheel in a clockwise direction until the winch starts to make a clicking sound. After the wheel is attached to the winch, use a $\frac{5}{16}$ " x $\frac{3}{4}$ " bolt (*item #5*) and $\frac{5}{16}$ " washer (*item #4*) to attach the wheel to the winch. Reference the figure for proper procedure.

*****NOTE: WINCH MAY NOT START TO CLICK UNTIL WEIGHT IS APPLIED*****

ITEM #	PART NUMBER	Qty.
1	Winch Cable	1
2	Clamp Screw	2
3	Winch Wheel	1
4	$\frac{5}{16}$ " Washer	1
5	$\frac{5}{16}$ " x $\frac{3}{4}$ " Bolt	1

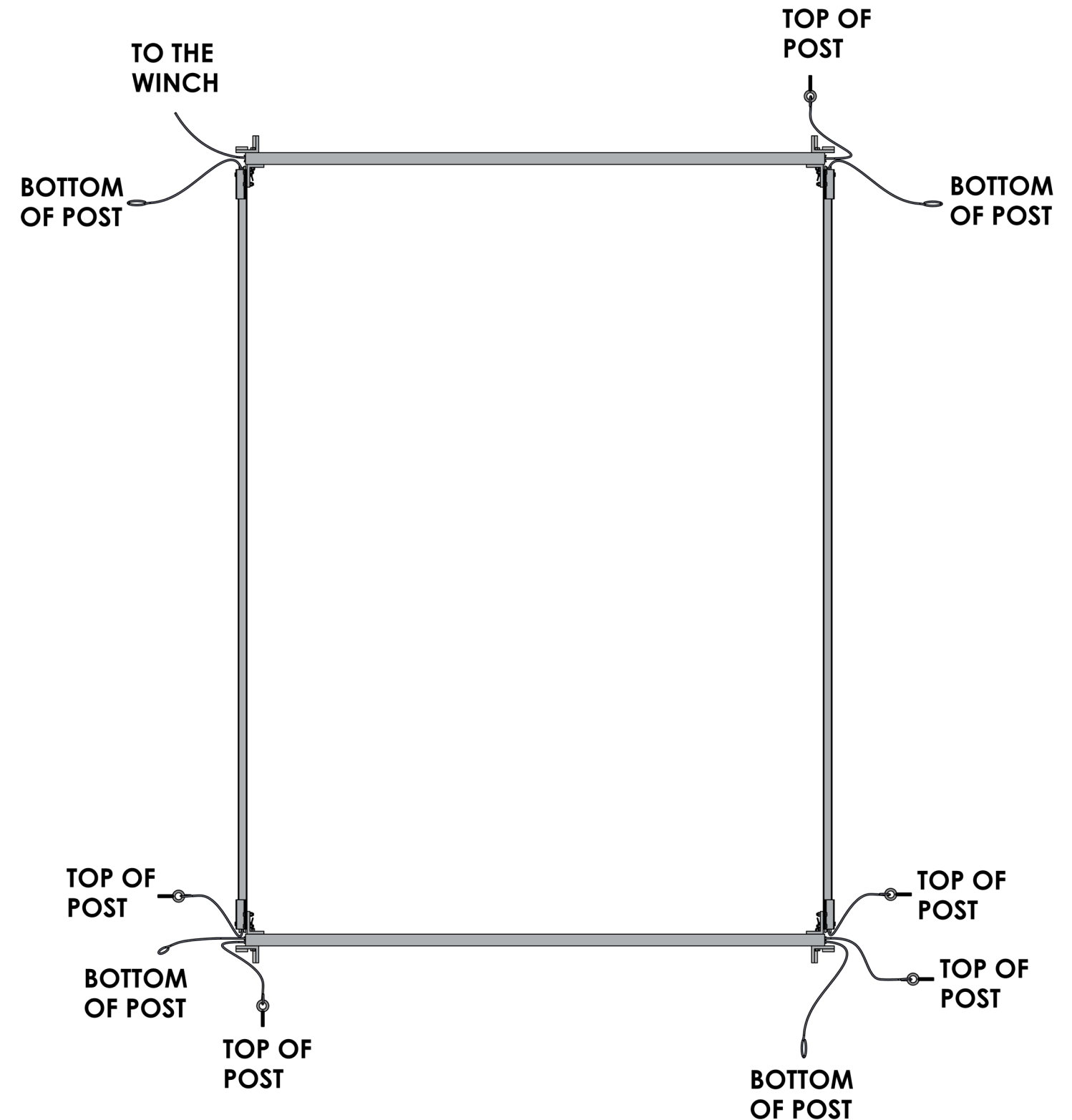


Procedure 7A

(STEP 9A) Ensure the open end cable is attached securely to the lift winch (*see PROCEDURE 6*).

On the opposite side of the lift, bolt the eye-bolt to the top of the side frame post. On both sides notice that there are cables with a loop on the end. Take those cables and attach to the bottom of the side frame posts (*see PROCEDURE 7B*).

*****IMPORTANT: BEFORE TIGHTENING HARDWARE AND PUTTING TENSION ON CABLES, LOOK DOWN THE LOAD BEAM WITH THE DOUBLE PULLEYS AND ENSURE THAT THE TWO CABLES INSIDE ARE NOT CROSSED. FAILING TO DO SO MAY CAUSE DAMAGE TO THE CABLES AND POSSIBLY THE REST OF THE LIFT*****

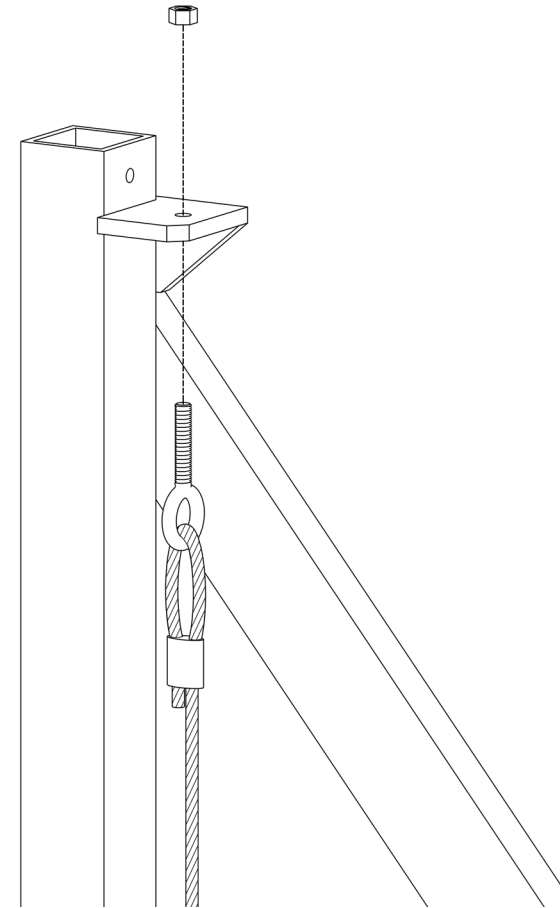


Procedure 7B

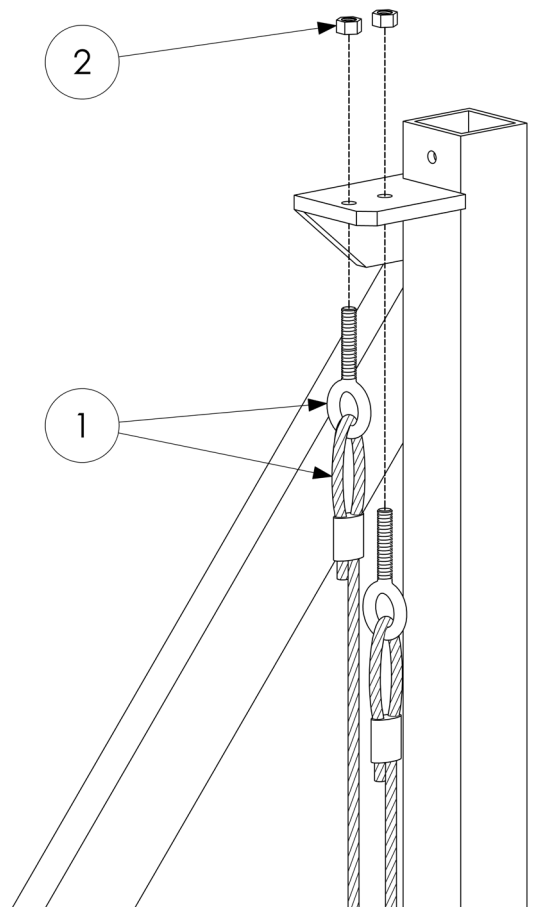
(STEP 9B) Take the cables with the eye-bolts (*item #1*) and fasten them to the tops of the side frame posts using one 1/2" nut (*item #2*) on each eye-bolt.

(STEP 10B) The cables with the loops (*item #3*) are then attached to the bottom of the side frame posts using a 1/2" x 2 1/2" bolt (*item #4*) and a 1/2" nut.

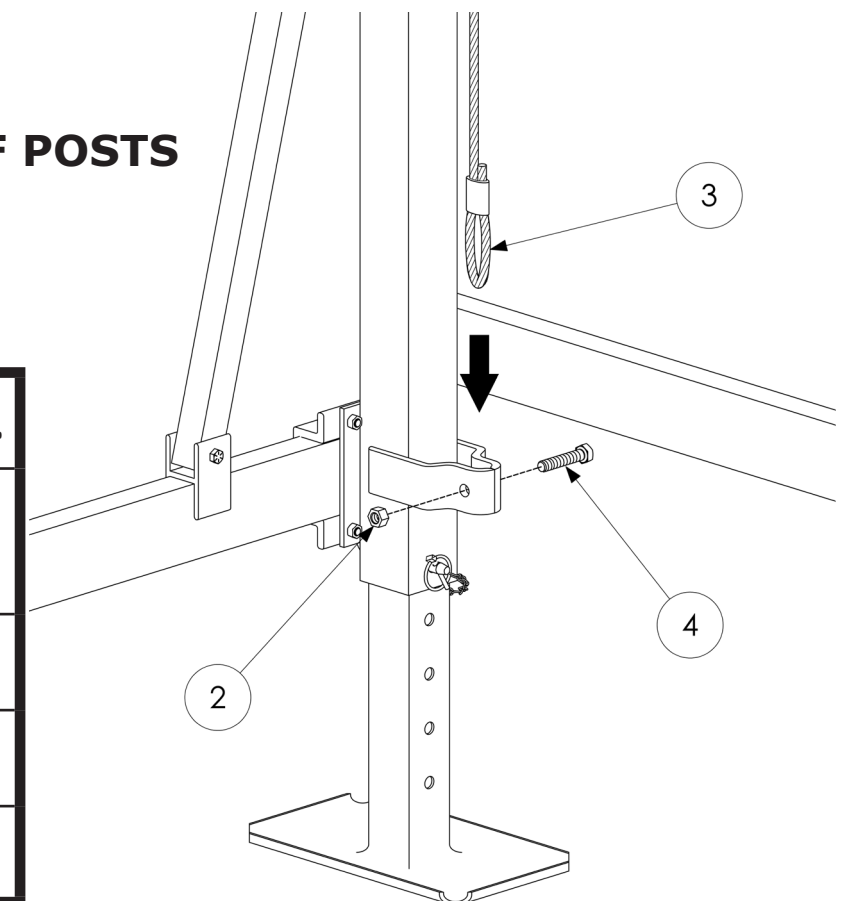
TOP OF POST B



TOP OF POSTS C & D



BOTTOM OF POSTS



ITEM #	PART NUMBER	Qty.
1	Cable With Eye-Bolt	5
2	1/2" Nut	9
3	Cable With Loop	4
4	1/2" x 2 1/2" Bolt	4

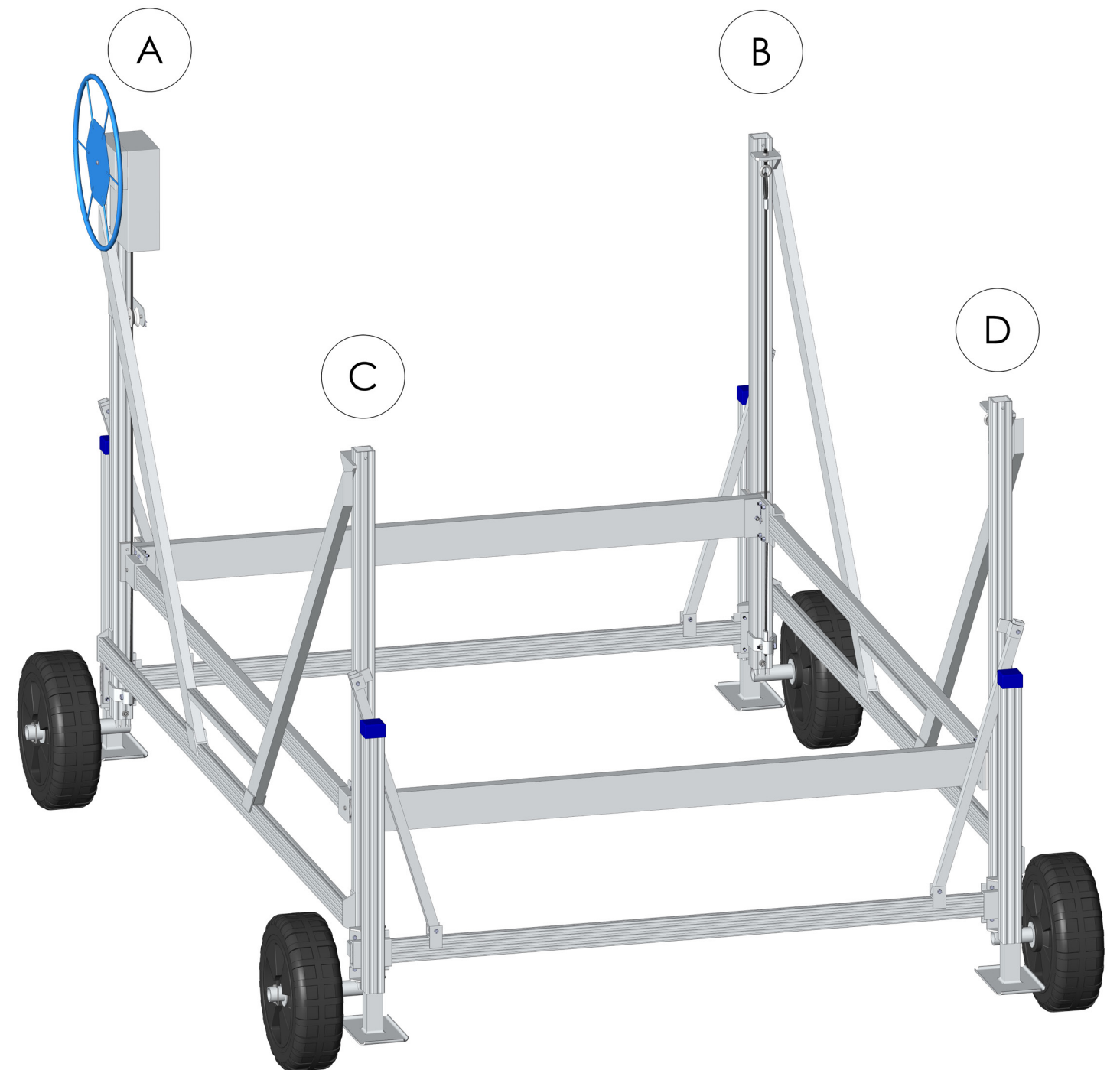
Procedure 8

(STEP 10) Turn the winch wheel clockwise until the platform starts to raise.

(STEP 11) Tighten the side beam cable that runs from upright B to upright D. Turn the nuts on the eyebolt end of the cable until the load beam C-D starts to raise. Repeat the same process with the side beam cable that runs from upright A to upright C.

(STEP 12) The guide cables are located in the load beam running from upright C to upright D. Guide cables are designed to keep the platform level. The guide cables should be adjusted to be slightly looser than the other cables. Tighten the two nuts on each eye bolt after adjusting. While the lift is under load, it is normal to have one cable tight while having the opposite guide cable loose. This will alternate when the load is being raised versus lowered.

(STEP 13) The platform of the lift must always be level with the main frame assembly of the lift in order to work properly. The lift must also be level with the water. To level the lift with the water, use the adjustable legs and the tape scale on the uprights of each corner. Verify that the lift and platform are level with the water regularly.



Screw Jacks

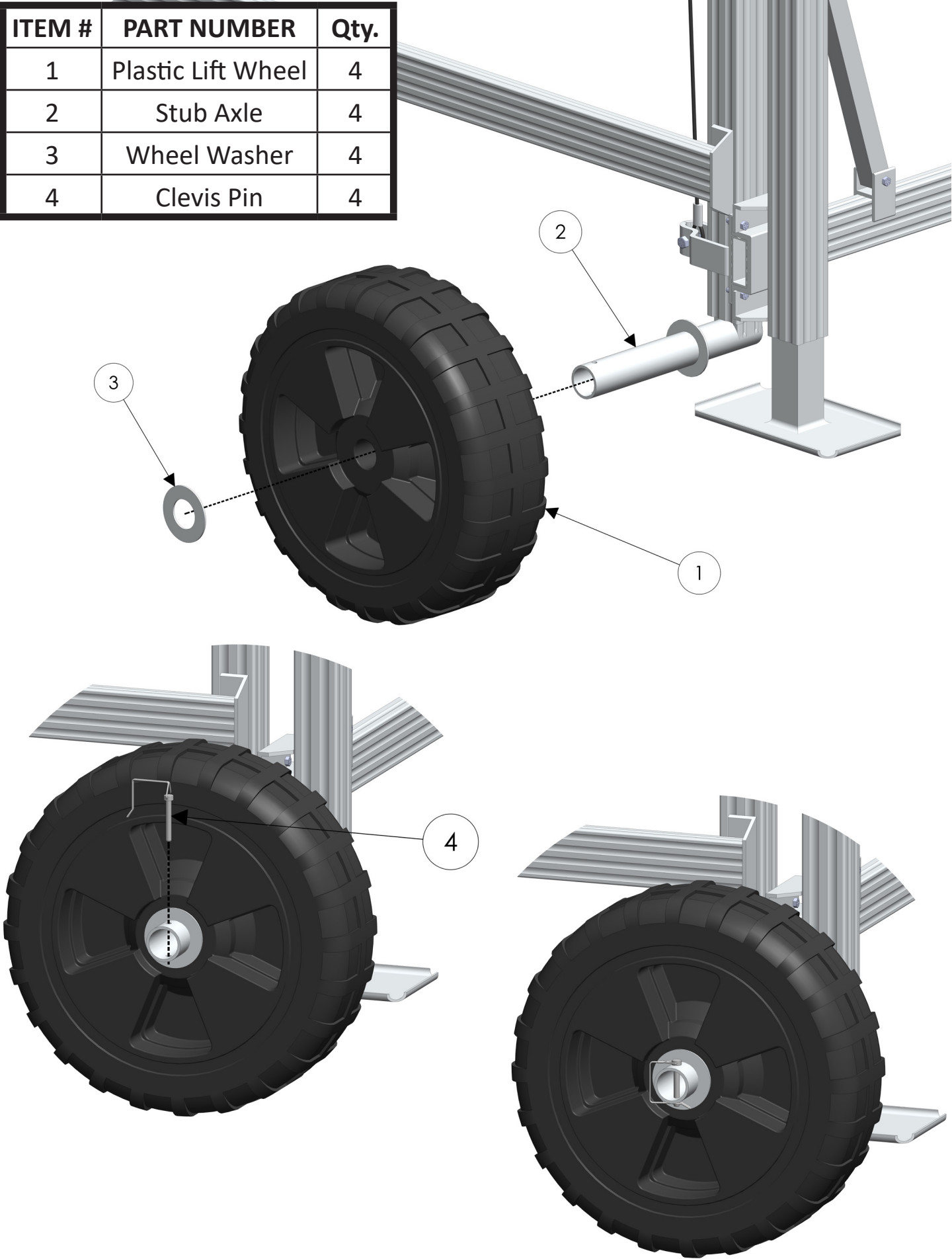
Wheel Assembly

(STEP 1) You may now attach the plastic wheels, this may be done with or without the canopy frame on the lift. Using the screw jack, raise the corner of the lift high enough to slide the wheel into place. Once the lift is elevated high enough off the ground, slide the plastic lift wheel (*item #1*) onto the stub axle (*item #2*) followed by a wheel washer (*item #3*). Ensure that the wheel is placed in the proper orientation (*see figure*).

(STEP 2) Insert the clevis pin (*item #4*) into the hole at the end of the stub axle and clip it securely into place.

*****NOTE: ONCE THE LIFT IS INSTALLED IN THE WATER, REMOVE THE PLASTIC WHEELS AND PUT THEM AWAY FOR STORAGE. THIS IS TO PREVENT DAMAGE TO THE WHEELS AND STUB AXLES*****

ITEM #	PART NUMBER	Qty.
1	Plastic Lift Wheel	4
2	Stub Axle	4
3	Wheel Washer	4
4	Clevis Pin	4



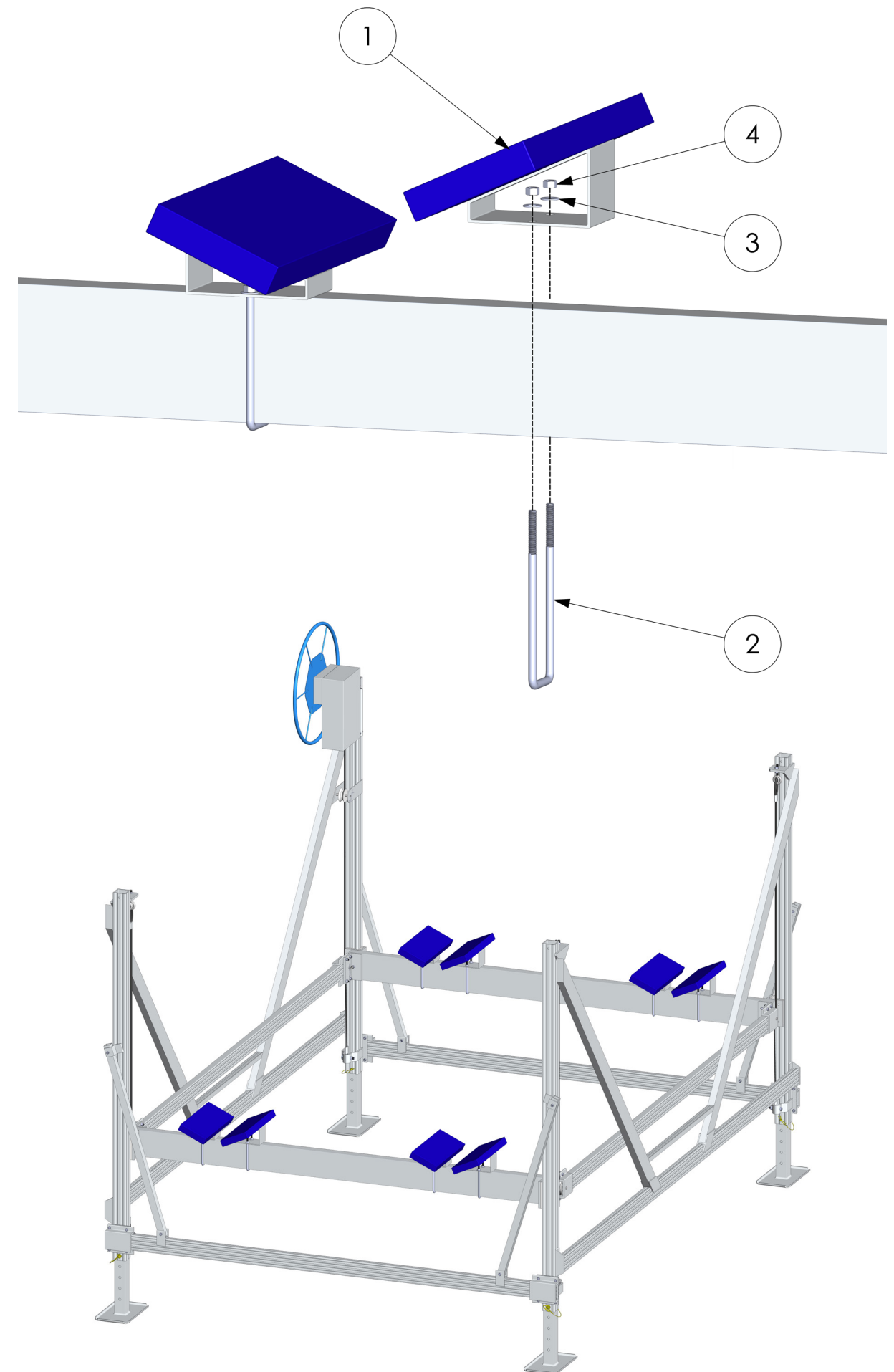
Pontoon V-Bunks

Lift Accessory

(STEP 1) Lay the carpeted bunk (*item #1*) flat on the load beam. Make sure the bunks are placed in a position such that they will hold the boat or pontoon firmly. This can be done by either measuring out the distance between your pontoon floats, or lining them up with the boat while the boat is in the water.

(STEP 2) Bolt the bunk to the load beam using a U-bolt (*item #2*) as shown in the figure. Insert the U-bolt through the holes in the bottom of the bunk bracket and then fasten with $\frac{3}{8}$ " nuts (*item #4*) and washers (*item #3*). Ensure the bunks are clamped securely to the load beam and all hardware is tightened.

ITEM NUMBER	PART NUMBER	QUANTITY
1	Carpeted Bunk	8 or 12
2	U-Bolt	8 or 12
3	Washer	16 or 24
4	$\frac{3}{8}$ " Nut	16 or 24



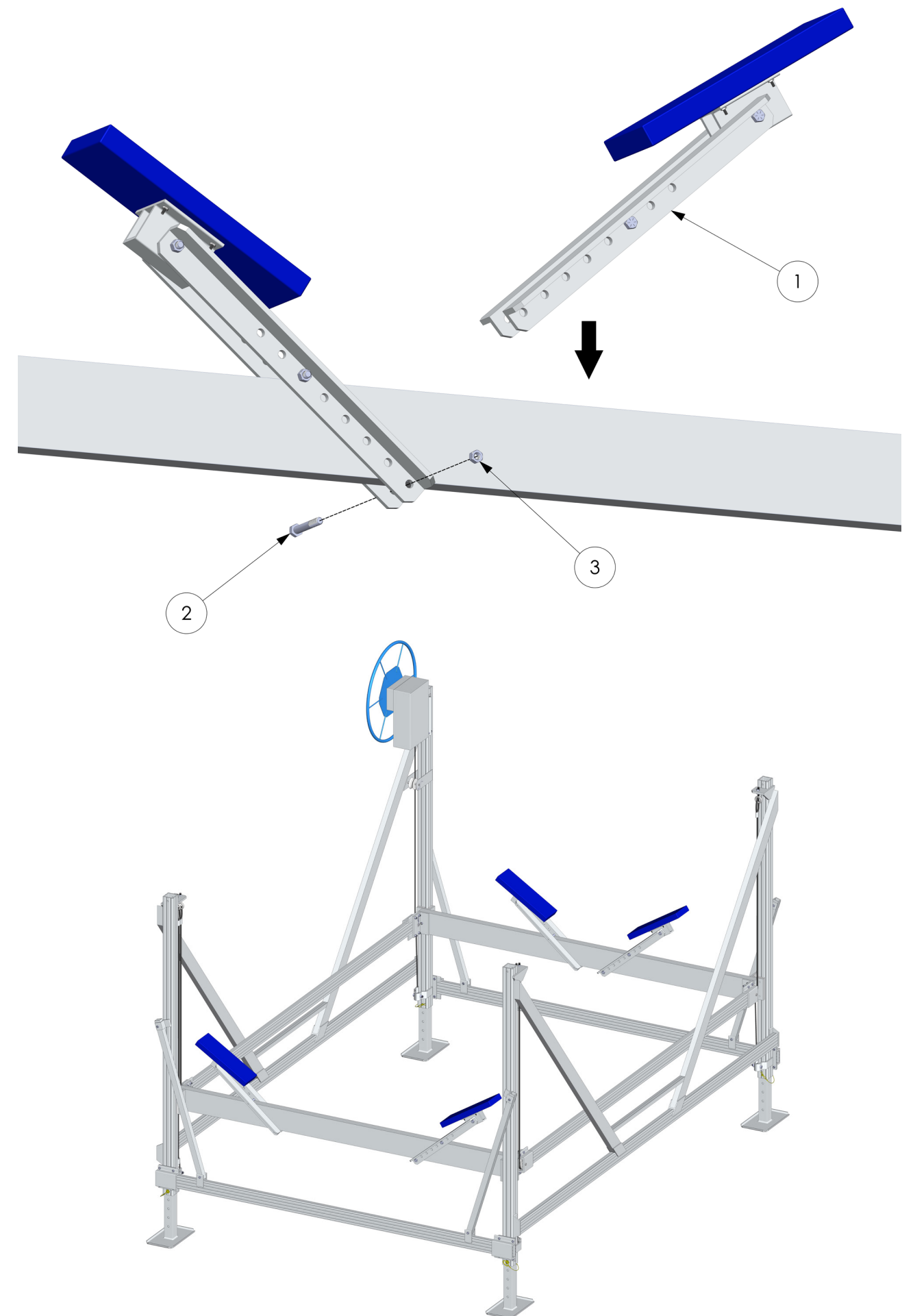
Boat Bunks

Lift Accessory

(STEP 1) To mount the vertical boat bunks (item #1), remove the bottom $\frac{1}{2}$ " x $3 \frac{1}{2}$ " bolt (item #3) and slip the boat bunks onto the lift load beam. Re-insert the bottom bolt and thread on the $\frac{1}{2}$ " nut (item #4) but leave hand tight.

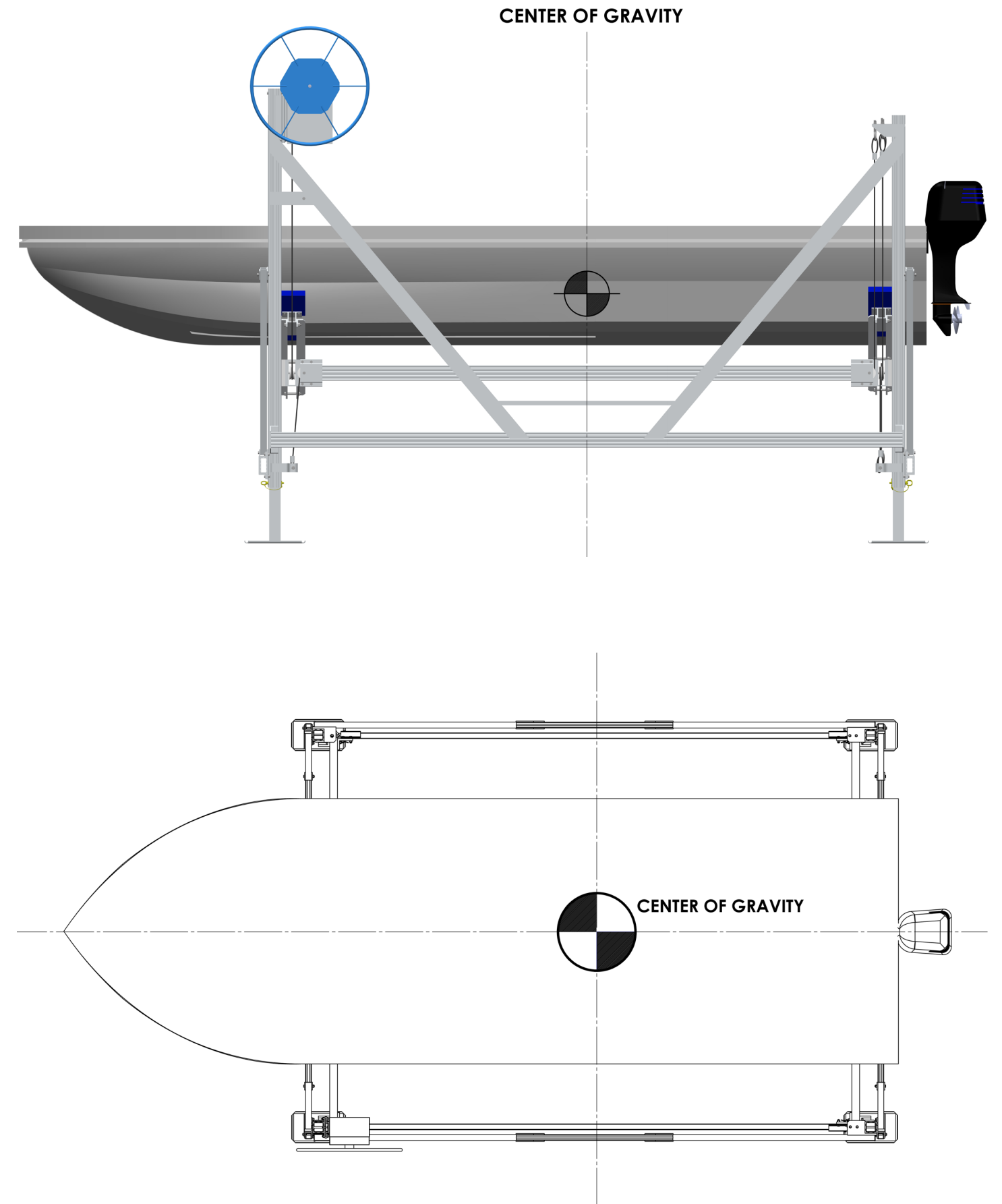
(STEP 2) Move the bunks to the desired position on the load beams where the boat will fit firm and snug on the lift. Once these adjustments have been made, tighten all hardware.

ITEM NUMBER	PART NUMBER	QUANTITY
1	Vertical Boat Bunk	4
3	$\frac{1}{2}$ " x $3 \frac{1}{2}$ " Bolt	12
4	$\frac{1}{2}$ " Nut	12



Procedure 11

(STEP 16) The winch does not move from upright A. The lift can be rotated to work on both sides of the dock. Most of the boat's weight is in the rear of the vessel. Try to position the boat with the CENTER OF GRAVITY IN THE CENTER OF THE LIFT. It is important to have an equal amount of the weight dispersed on both the front and rear load beams. If the weight is not equally dispersed on the load beams, the platform could bind with the upright beams and cause damage.



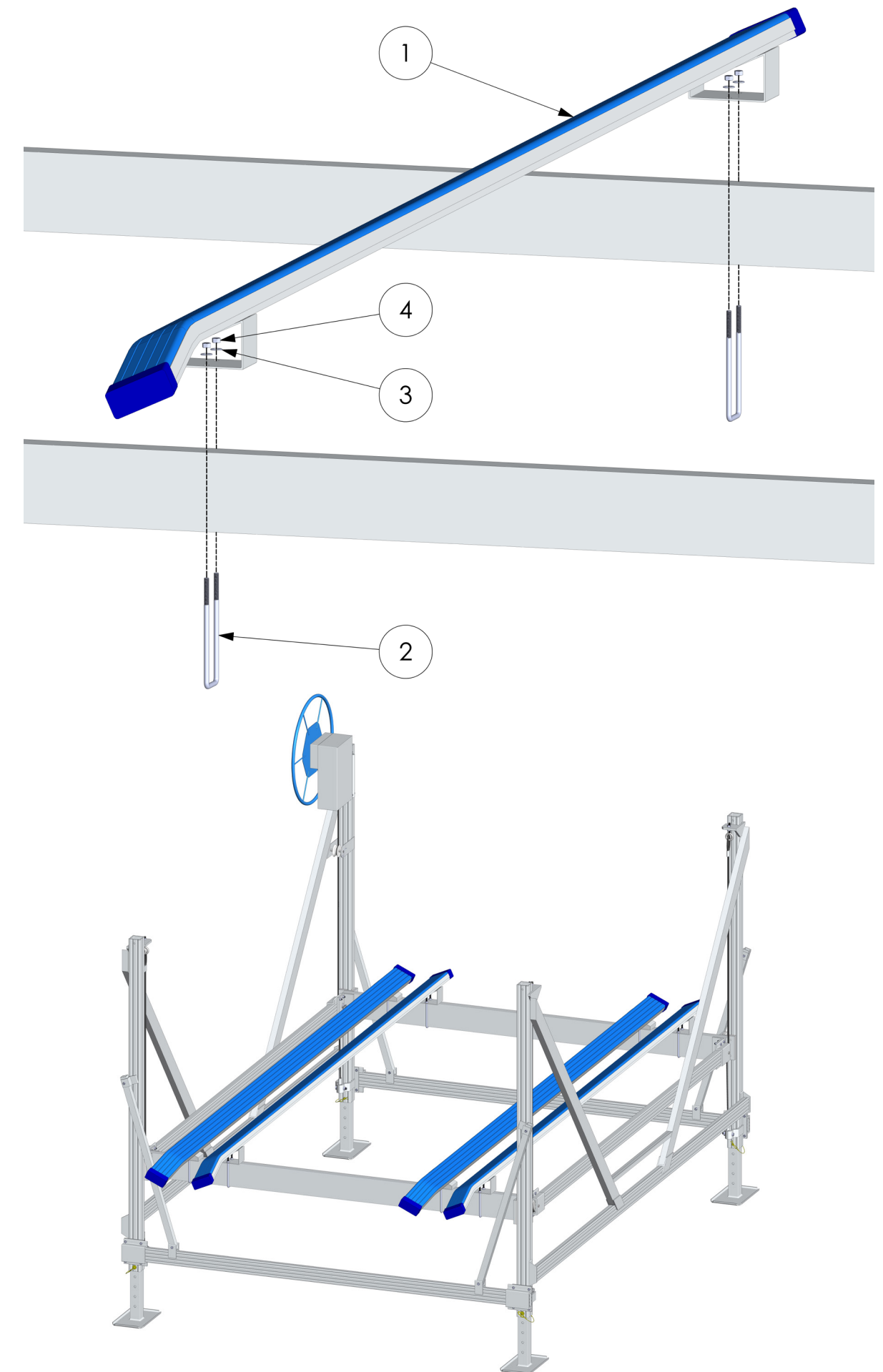
Long Pontoon Bunks

Lift Accessory

(STEP 1) Lay the pontoon bunks (*item #1*) flat on the load beam. Make sure the bunks are placed in a position such that they will hold the pontoon firmly. This can be done by either measuring out the distance between your pontoon floats, or lining them up with the boat while the boat is in the water.

(STEP 2) Bolt the bunk to the load beam using a U-bolt (*item #2*) as shown in the figure. Insert the U-bolt through the holes in the bottom of the bunk bracket and then fasten with $\frac{3}{8}$ " nuts (*item #4*) and washers (*item #3*). Ensure the bunks are clamped securely to the load beam and all hardware is tightened.

ITEM NUMBER	PART NUMBER	QUANTITY
1	Long Pontoon Bunk	4 or 6
2	U-Bolt	8 or 12
3	$\frac{3}{8}$ " Washer	16 or 24
4	$\frac{3}{8}$ " Nut	16 or 24

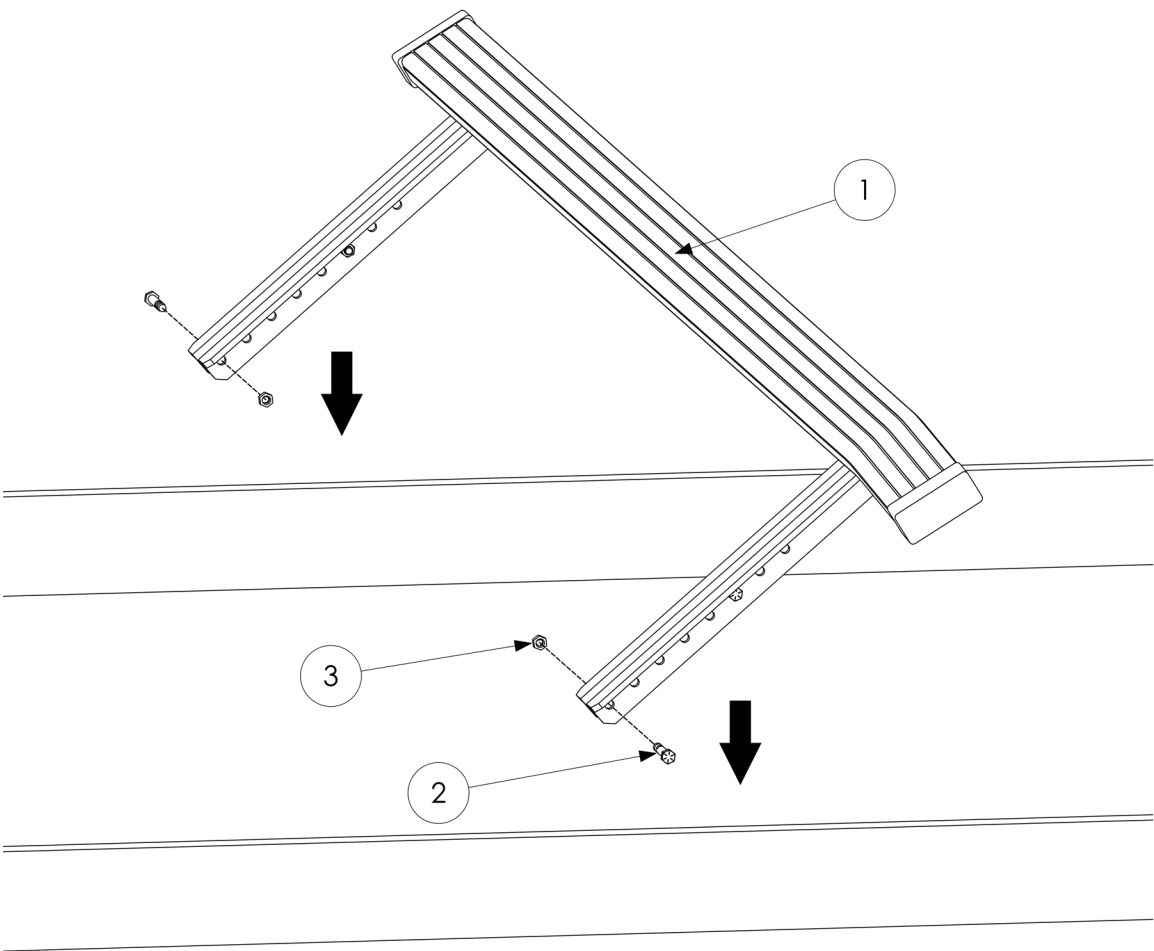


Long Boat Bunks

Lift Accessory

(STEP 1) Remove the bottom bolt and nut on the long boat bunk bracket. Now slide the long boat bunks (*item #1*) onto the load beams. Make sure the bunks are placed in a position such that they will hold the boat firmly. This can be done by either measuring the width of your boat, or lining them up with the boat while the boat is in the water.

(STEP 2) Bolt the bunk to the load beam by re-inserting the 1/2" x 3 1/2" bolts (*item#2*) and then fastening with the 1/2" nuts (*item #3*). Once all adjustments are made, ensure the bunks are clamped securely to the load beams and all hardware is tightened.



ITEM #	PART NUMBER	Qty.
1	Long Boat Bunk	2
2	1/2" x 3 1/2" Bolt	12
3	1/2" Nut	12

Vertical Motor Stop

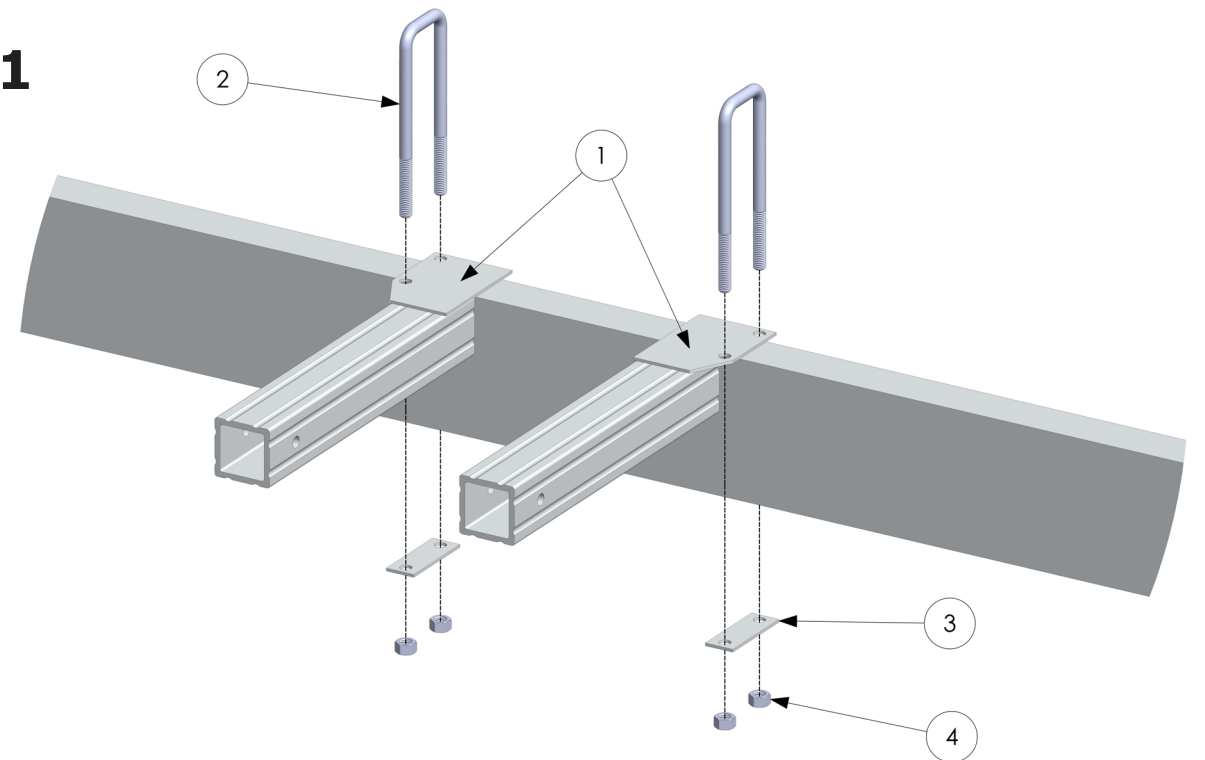
Lift Accessory

(STEP 1) Place the motor stop mounts (*item #1*) in the middle of the load beam on the lift and insert the U-bolts (*item #2*) as shown in the figure. Slip the two clamping plates (*item #3*) onto the U-bolts and tighten with four $\frac{3}{8}$ " nuts (*item #4*).

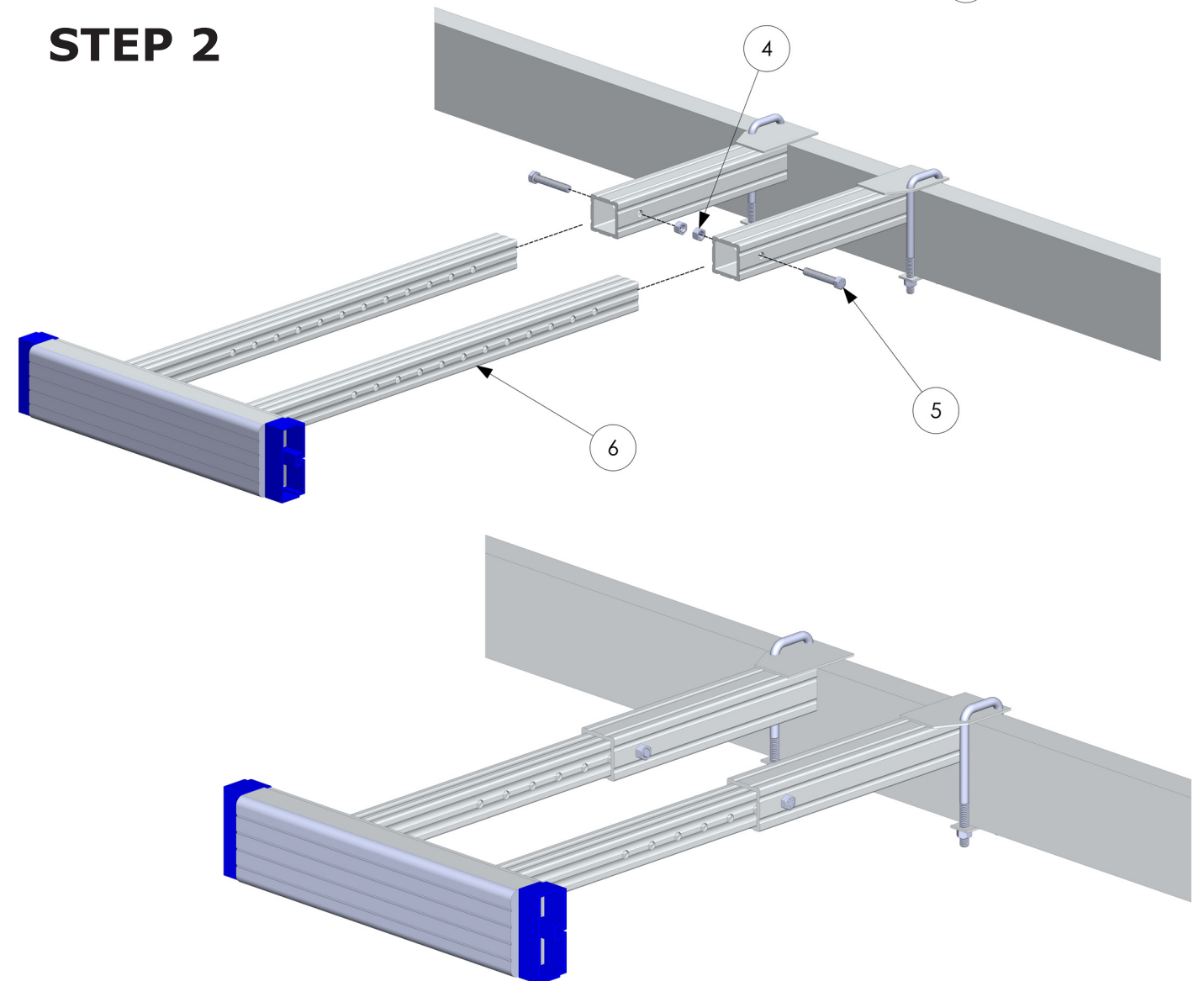
(STEP 2) Adjust the motor stop (*item #5*) in or out according to the position you would like your boat to stop at. Insert the two $\frac{1}{2}$ " x 3" bolts (*item #6*) and fasten using two $\frac{3}{8}$ " nuts (*item #4*).

ITEM NUMBER	PART NUMBER	QUANTITY
1	Motor Stop Mounts	2
2	U-Bolt	2
3	U-Bolt Clamping Plate	2
4	$\frac{3}{8}$ " Nut	6
5	$\frac{1}{2}$ " x 3" Bolt	2
6	Motor Stop	1

STEP 1



STEP 2



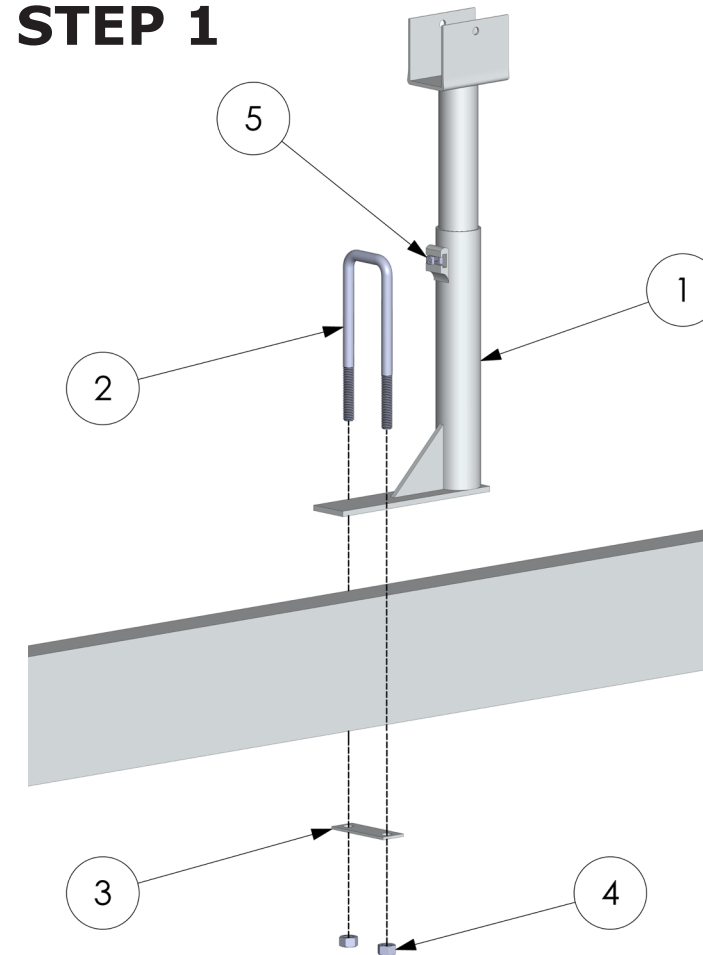
Side Guide Rail

Lift Accessory

(STEP 1) Place side guide brackets (*item #1*) on the vertical lift load beam in the desired location, remember to keep the leg of the brackets facing the inside of the lift. Slip the U-bolt (*item #2*) over the bracket as shown in the figure. Place the clamping plates (*item #3*) onto the U-bolts and tighten with two $\frac{3}{8}$ " nuts (*item #4*). Adjust the bracket to the desired height and tighten the set screw (*item #5*).

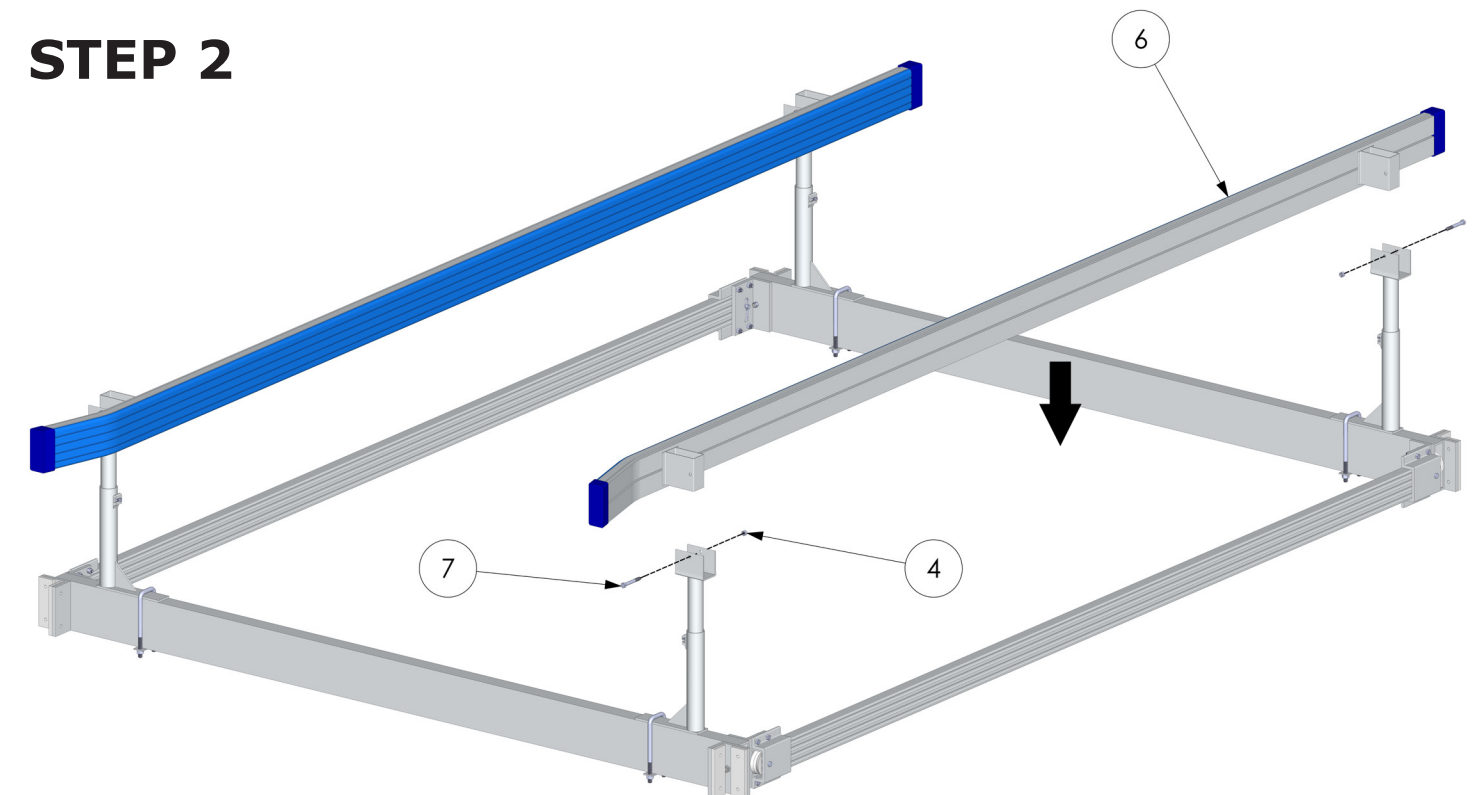
(STEP 2) Now place the side guide rail (*item #6*) onto the brackets you've just installed. You may have to adjust the sliders on the guide rail, to do this simply loosen the nut on the slider, move them to the appropriate position, and tighten the nuts. Once the guide rail is set on the brackets, bolt it in place using the two $\frac{3}{8}$ " x 3" bolts (*item #7*) and $\frac{3}{8}$ " nuts (*item #4*).

STEP 1



ITEM #	PART NUMBER	Qty.
1	Side Guide Bracket	4
2	U-Bolt	4
3	Clamping Plate	4
4	$\frac{3}{8}$ " Nut	12
5	Set Screw	4
6	Side Guide Rail	2
7	$\frac{3}{8}$ " x 3" Bolt	4

STEP 2



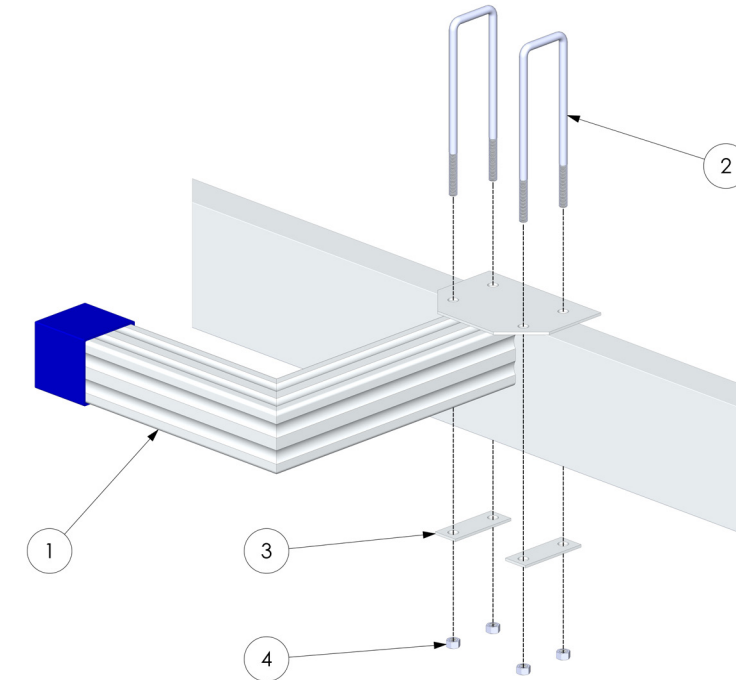
Guide-On Bumper

Lift Accessory

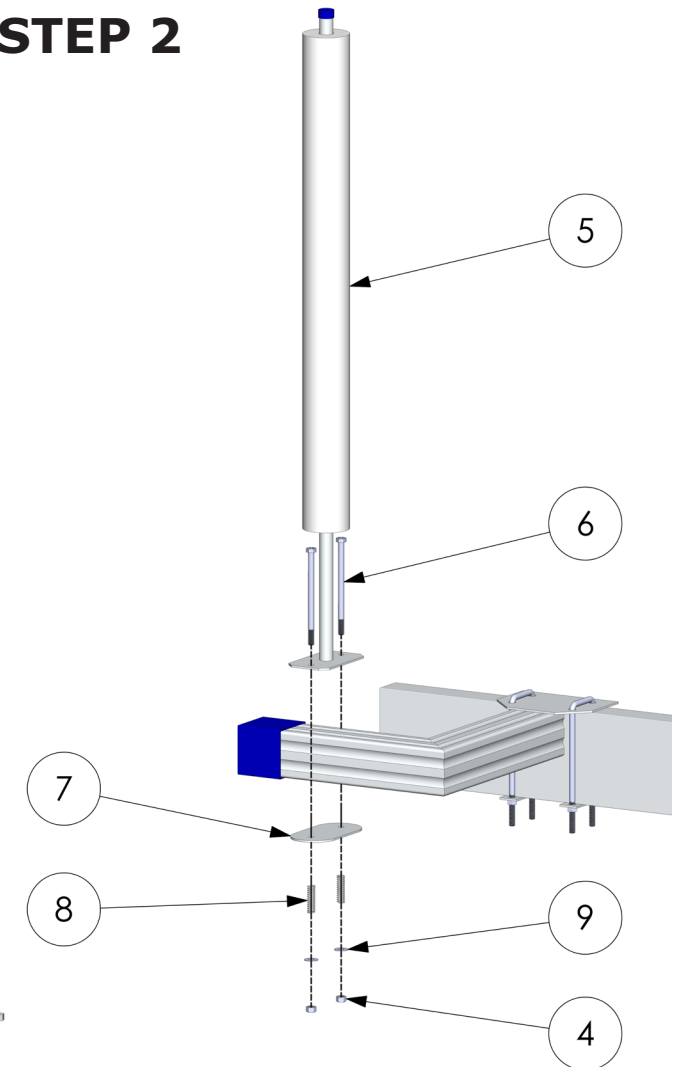
(STEP 1) Place the guide-on arm (*item #1*) onto the load beam with the arm facing outwards from the lift. Insert the U-bolts (*item #2*) and clamp the guide arm onto the load beam using the clamping plates (*item #3*) and four $\frac{3}{8}$ " nuts (*item #4*) as shown in the figure.

(STEP 2) Attach the guide-on bumpers (*item #5*) to the guide-on arms which are already fastened to the lift. Insert the $\frac{3}{8}$ " x 6" bolts (*item #6*) and then slip on the spring plate (*item #7*) first, followed by the springs (*item #8*), $\frac{3}{8}$ " washers (*item #9*), and two $\frac{3}{8}$ " nuts (*item #4*). Adjust the bumper to desired location on the arm and tighten all hardware. When the guide bumper is secured, place the cover over it and velcro securely.

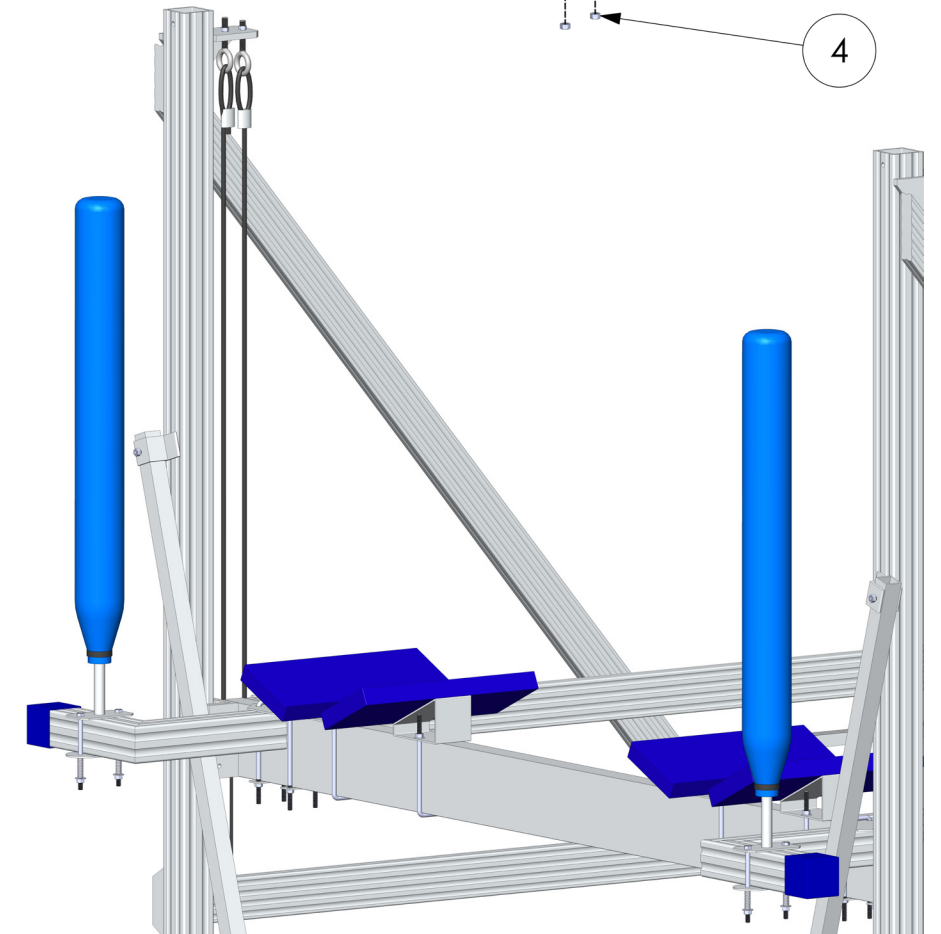
STEP 1



STEP 2



ITEM #	PART NUMBER	Qty.
1	Guide-On Arm	2
2	U-Bolt	4
3	U-Bolt Clamping Plate	4
4	$\frac{3}{8}$ " Nut	8
5	Guide-On Bumper	2
6	$\frac{3}{8}$ " x 6" Bolt	4
7	Spring Plate	2
8	Spring	4
9	$\frac{3}{8}$ " Washer	4



Lift Step

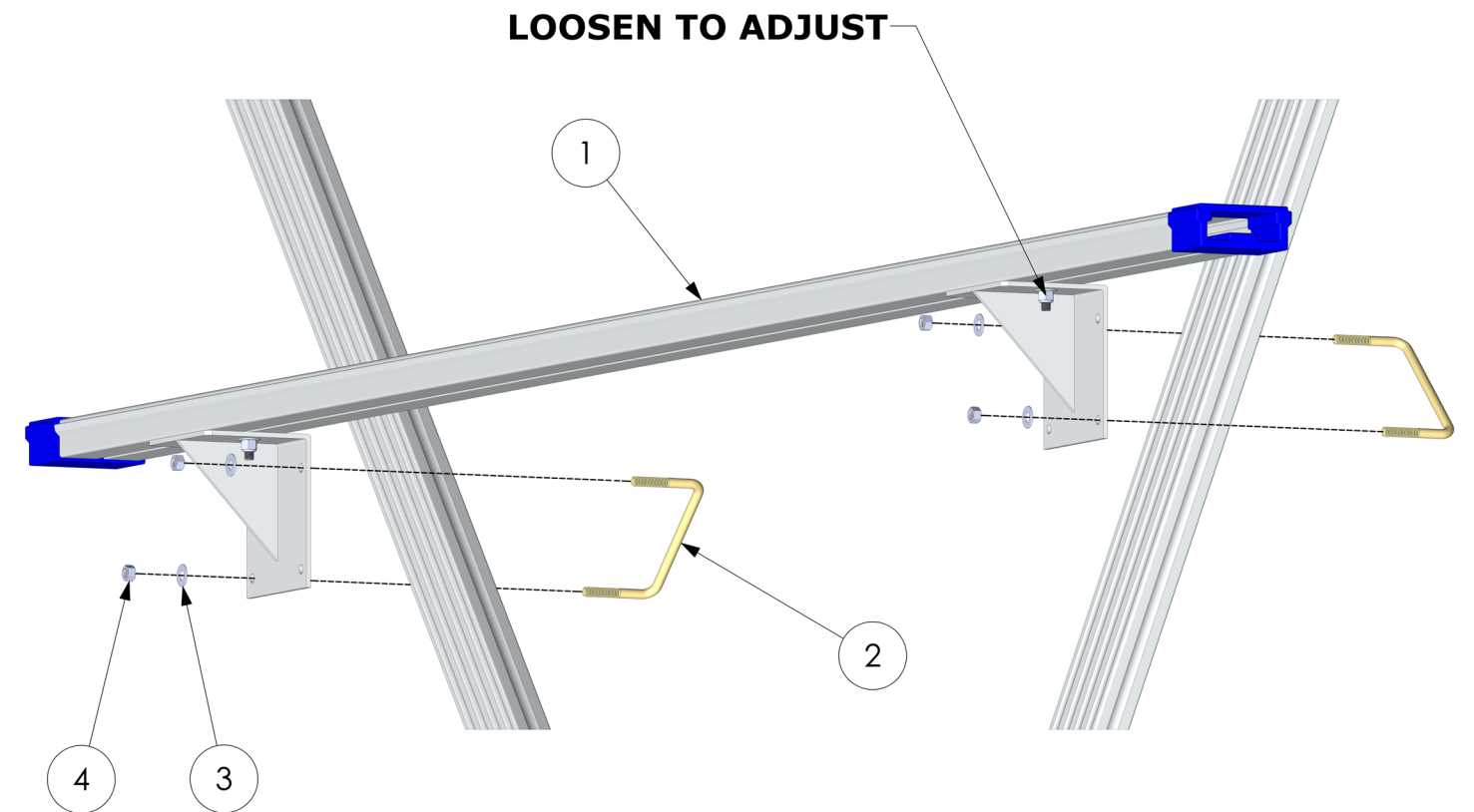
Lift Accessory

(STEP 1) Position the lift step (*item #1*) to the desired height on the side of the lift. Loosen the brackets on the step and slide to meet up with the 45 degree angled uprights.

(STEP 2) Using the two U-bolts (*item #2*), clamp the upright with the brackets on the step. Fasten with $\frac{3}{8}$ " nuts (*item #4*) and washers (*item #3*).

*****BE SURE TO TIGHTEN ALL HARDWARE BEFORE USE*****

ITEM #	PART NUMBER	Qty.
1	Lift Step	1
2	U-Bolt	2
3	$\frac{3}{8}$ " Washer	4
4	$\frac{3}{8}$ " Nut	4



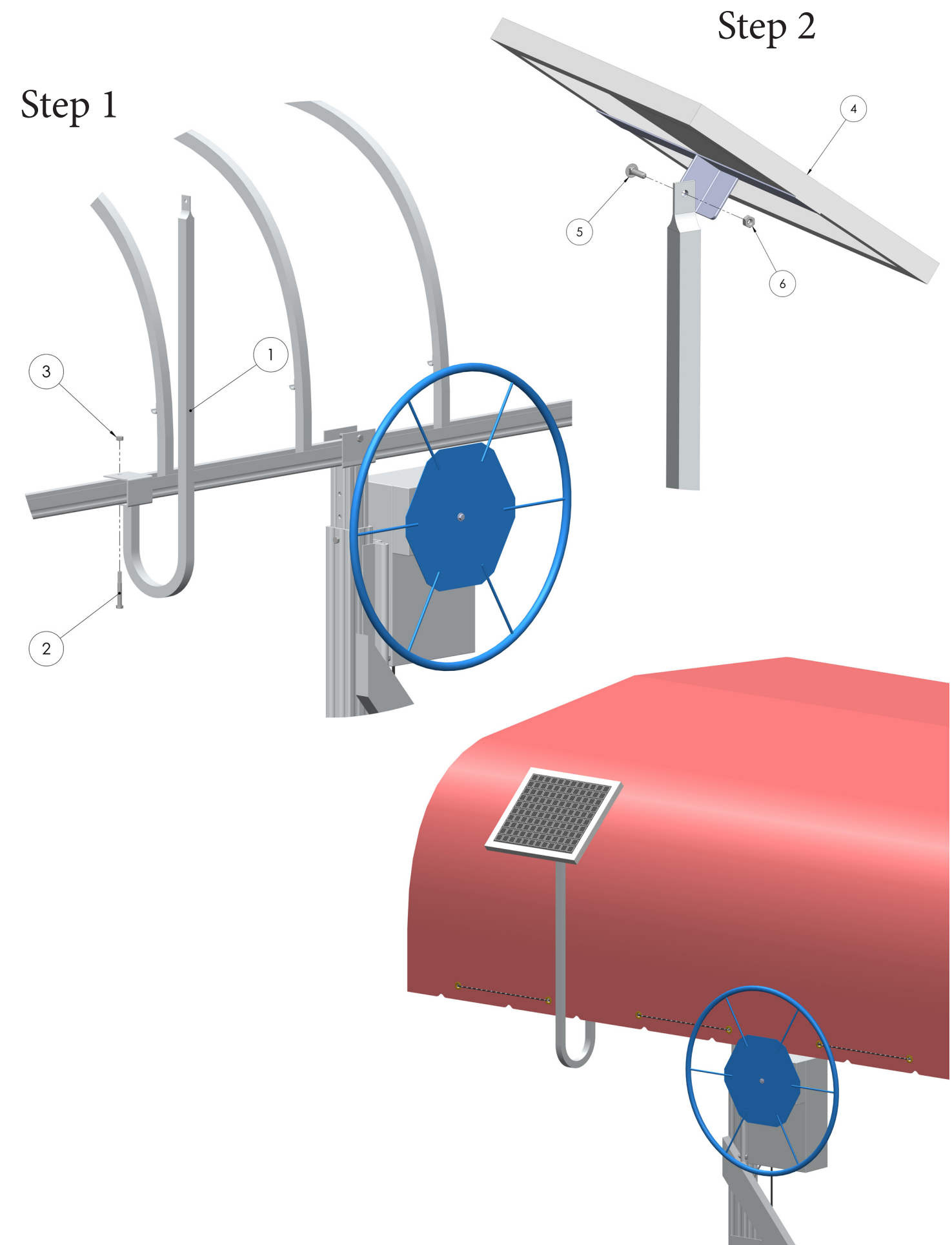
Solar Charger Panel

Lift Accessory

(STEP 1) Slip the solar panel arm (*item #1*) onto the canopy frame near the winch and fasten using a $\frac{3}{8}$ " x 3" bolt (*item #2*) and $\frac{3}{8}$ " nut (*item #3*).

(STEP 2) Mount the solar panel (*item #4*) to the arm using a $\frac{1}{4}$ " x 1 $\frac{1}{2}$ " carriage bolt (*item #5*) and $\frac{1}{4}$ " nut (*item #6*). Proceed to connect the solar panel's electrical connections to the winch.

ITEM NUMBER	PART NUMBER	QUANTITY
1	Solar Panel Arm	1
2	$\frac{3}{8}$ " x 3" Bolt	1
3	$\frac{3}{8}$ " Nut	1
4	Solar Panel	1
5	$\frac{1}{4}$ " x 1 $\frac{1}{2}$ " Carriage Bolt	1
6	$\frac{1}{4}$ " Nut	1





Product Warranty

Vibo Marine warrants all equipment purchased new by original owner, to be free of defects in the materials and workmanship under normal use from the date of purchase for the period of time set below.

New Vibo Marine aluminum docks and lifts carry a 10 year conditional warranty on all aluminum, aluminum welds and workmanship.

Vibo Marine further warrants all other parts used on Vibo lifts, docks and accessories, purchased new by original owner, to be free from defects in the materials and workmanship under normal use from the date of purchase for 24 months (excluding components and options which carry their own manufacturer's warranty, wherein that warranty will apply.) Excluded from this warranty are parts, such as hardware, pulleys, and cable accessories that wear from normal use. There is no other express warranty. Vibo Marine is not liable for incidental or consequential damages or injuries of any kind due to installation, removal, use, misuse, snow or ice, electrolysis, severe weather, acts of God, misapplication, or improper selection of one of our purchased or displayed products. Vibo Marine agrees to repair or replace only defective parts returned to the factory (shipping costs paid by the customer) and deemed defective by Vibo Marine. Warranty is void when misuse or neglect is the cause.

Vibo Marine is not responsible for removal, dismantling or re-installation cost. This warranty is void if the boat lift or dock is used in other than normal residential service, or installed in salt water.

Vibo Marine warrants canopy covers from the date of purchase for 1 year, to be free of defects in materials and workmanship under normal use. Fading of cover, misuse, snow or ice, severe weather and acts of God are excluded from the warranty.

All returns must be made to Vibo Marine within 30 days from date of purchase. All returns must be in new condition and deemed in new condition by Vibo Marine. Vibo Marine does not accept returned electrical equipment for refund or exchange. All other returnable parts or products are subject to a 15% restocking charge.

Vibo Marine warranty does not cover O.E.M. manufactured products. Most manufacturer's have their own warranty time periods. The cargo net accessory is NOT intended for human use. Misuse may result in injury.

Stub axles are only intended for moving lift NOT to hold lift and vessel weight permanently. There is a 250 lb. maximum weight per axle.

All decking is warranted from the date of purchase for 1 year.

Vibo Marine warrants all lift wheel kits to be free of defects in the materials and workmanship under normal use from the date of purchase for 1 year.

Warranty is non-transferable. Prices and specifications subject to change without notice.

Aluminum Docks & Boat Lifts
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