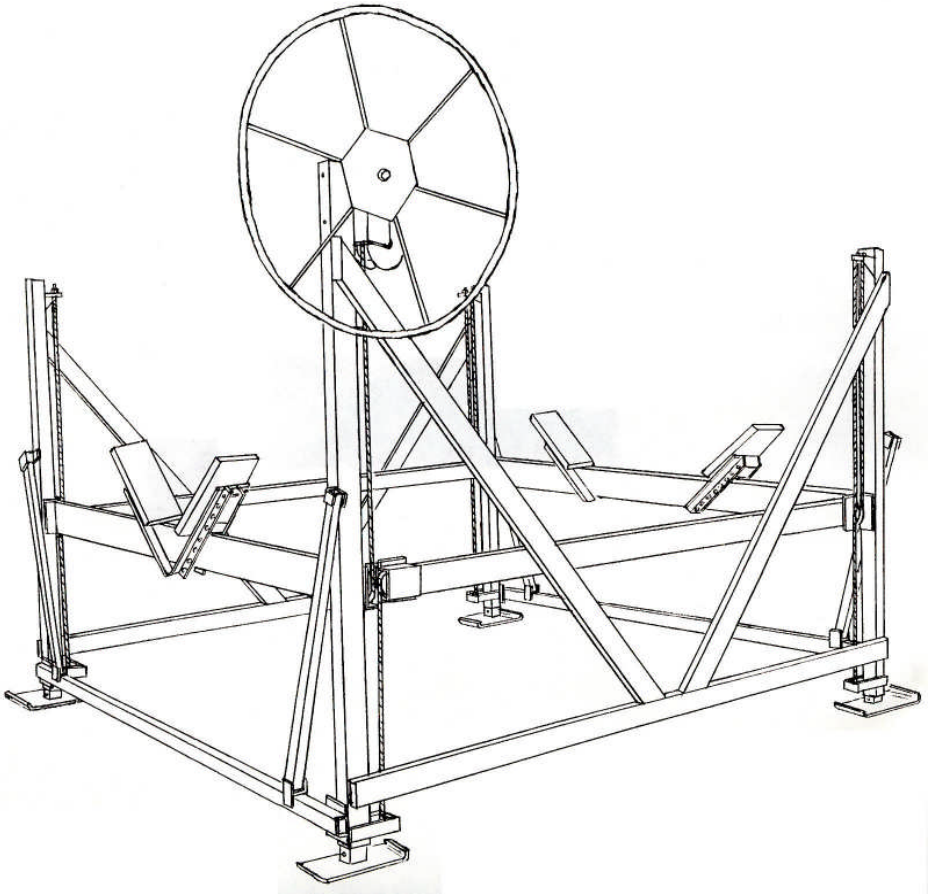
Assembly Instructions

- Vertical Lifts



Winch Instruction Page

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 at least 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

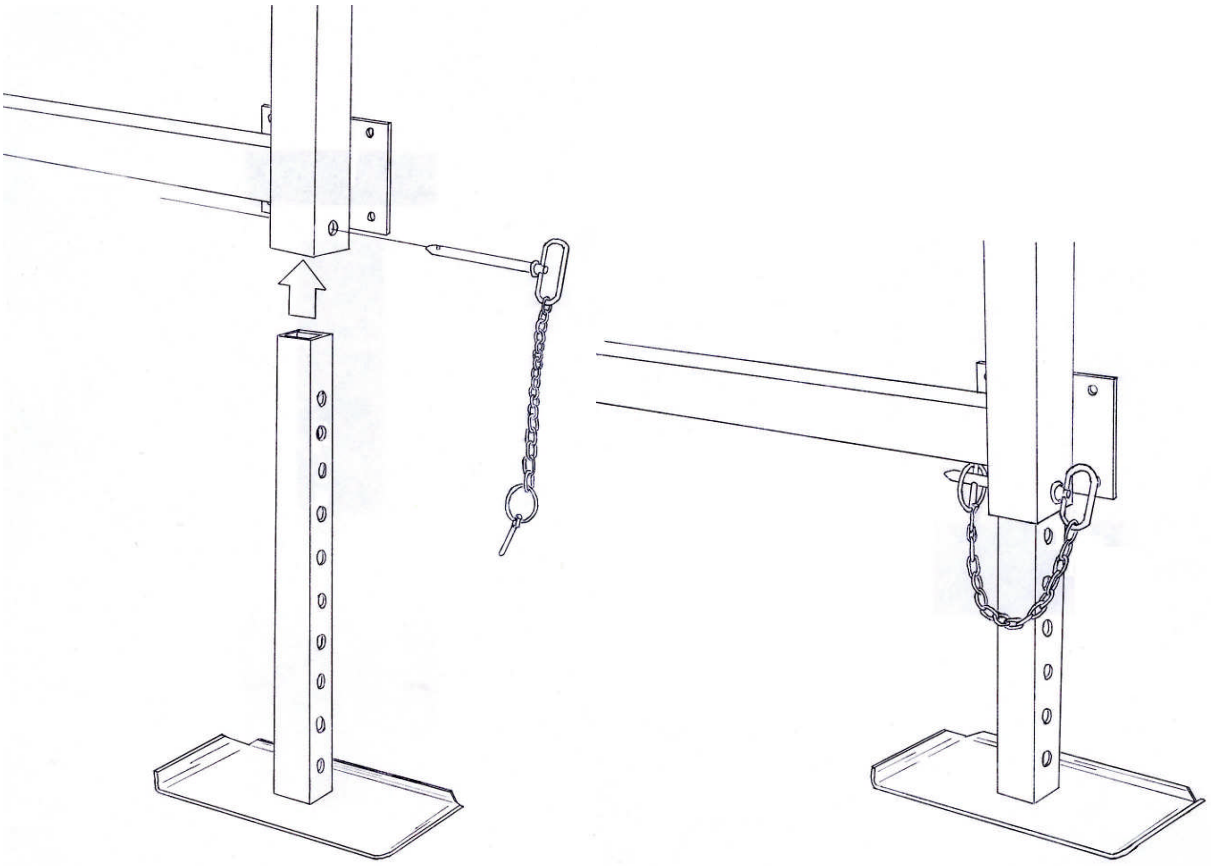
Thread the winch wheel onto the winch drive shaft, be certain that a clicking sound is produced when the winch wheel is turned clockwise. Install the spring, shaft extension, washer and bolt on the end of the drive shaft. These parts may appear to serve no function, but they provide several important 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 released. 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 satisfy yourself that the winch is holding the load before releasing the winch wheel.

Procedure 1

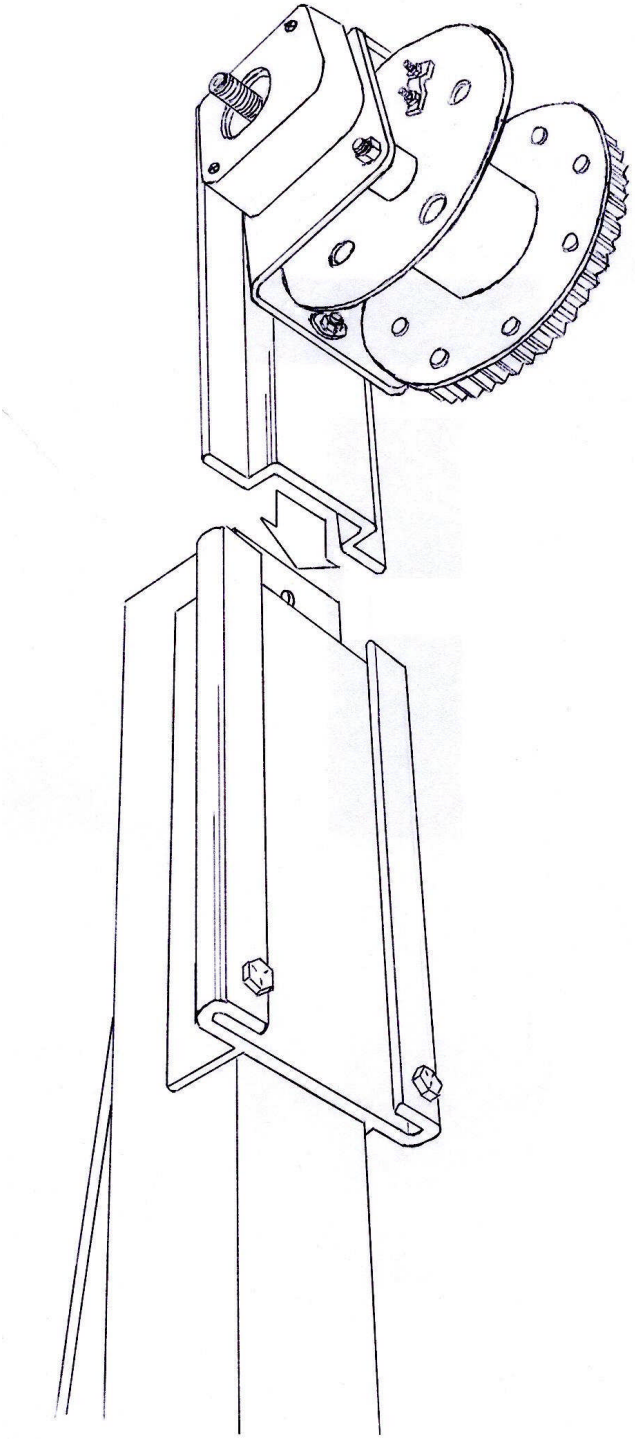
(Step 1) Insert the adjustable lift legs in the bottom of the lift side frames. To adjust the legs, lift the side frame to the desired height and insert the pin. Clip the spring loaded lock on the pin to keep it from falling out, as shown below.



Procedure 2

(Step 2) Slide the winch into the winch slide brackets, as illustrated below, 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 3

(Step 3) Using the 3/8" x 1" bolts, mount the two spreader bars to the two side frames. Be sure that the tabs for the support arms are facing in the upright position, as shown in figure "A".
(Step 4) Place the support arm into the tabs on the spreader arm and the tabs on the side frames, as shown in figure "B". Tighten the support arm with two 3/8" x 2 ½" bolts. Repeat this procedure on all four corners.

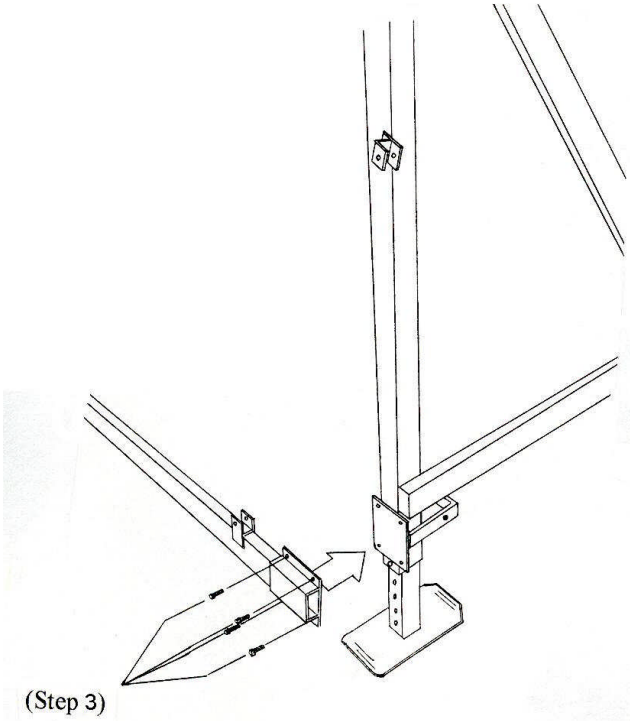
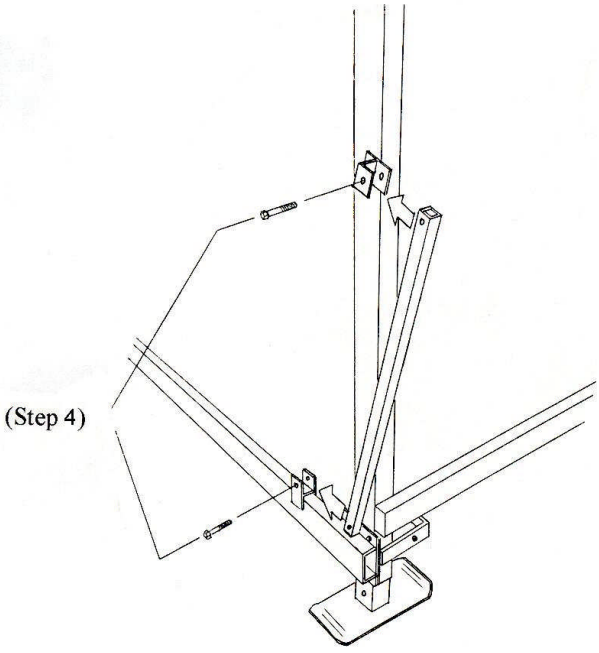


Figure A

Figure B

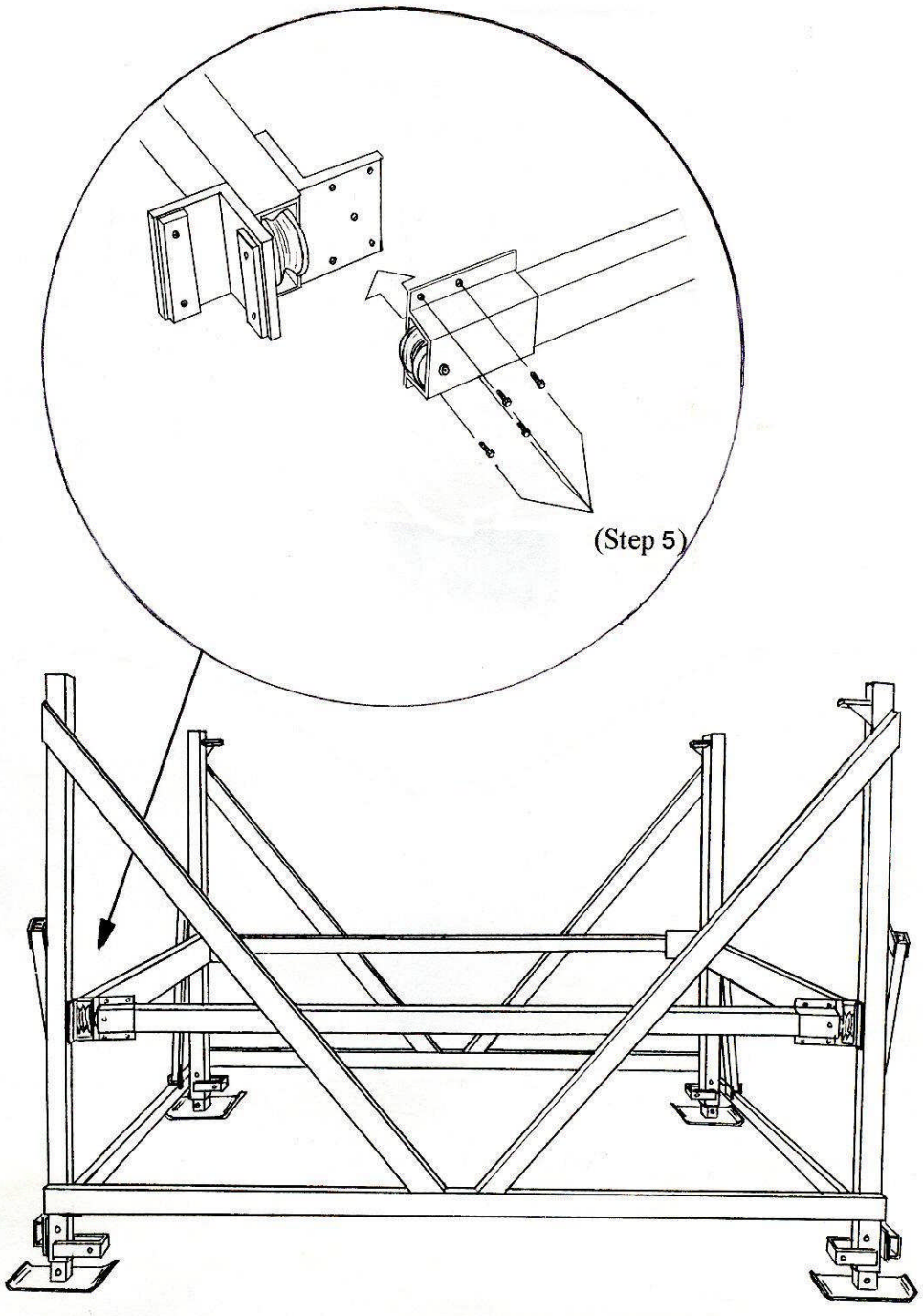


*****Do not tighten bolts until the assembly is finished.*****

Procedure 4

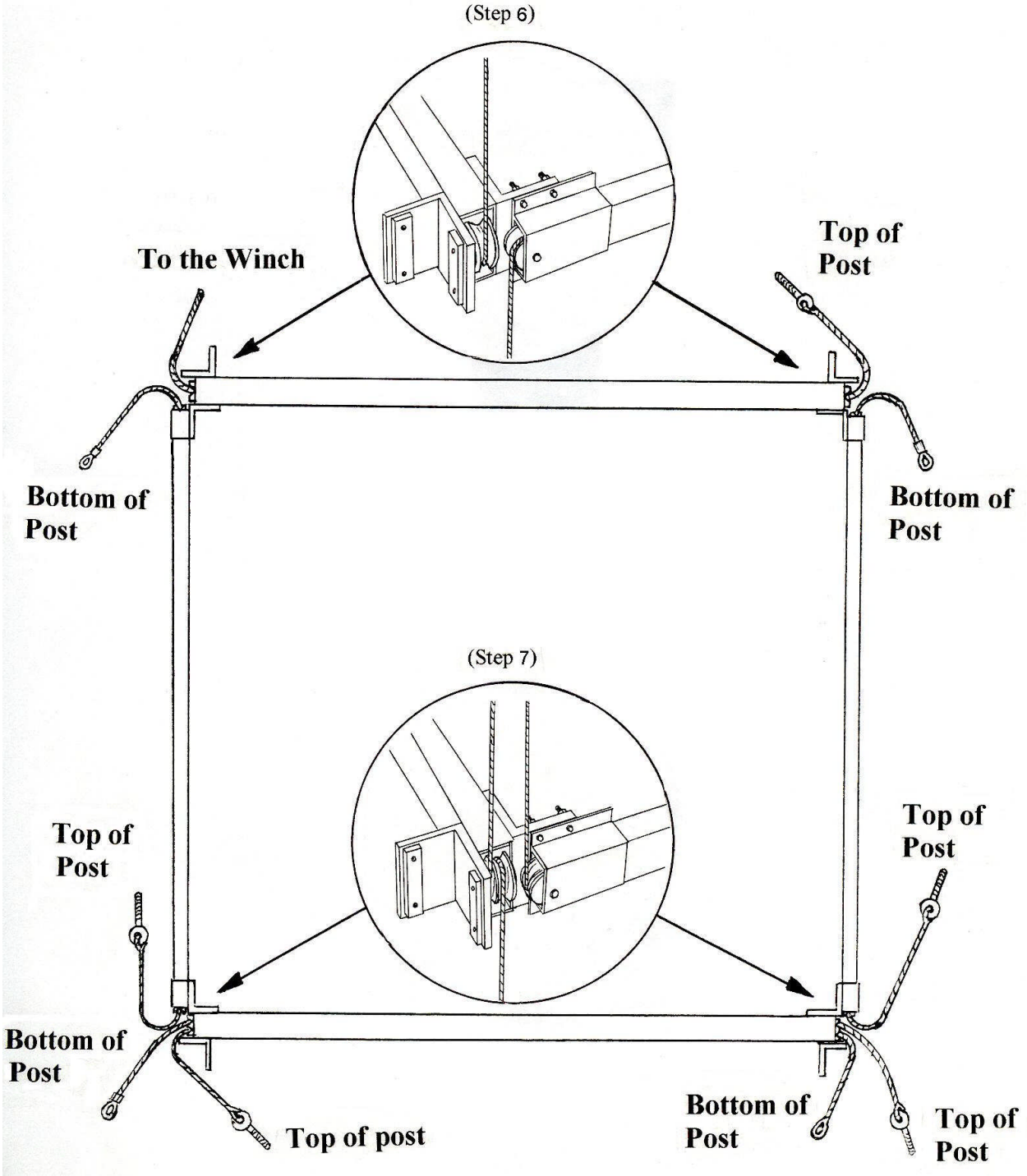
(Step 5) Using the 3/8" x 1 ½" bolts, mount the two runners to the two load bearing cross beams, as shown in figure "C". When bolting these together be sure to assemble inside the frame of the lift that is already put together. To ensure that the corners of the platform match up to the corners of the lift frame, each corner will have a colored dot sticker. Just match the colored dot on the platform with the dot on the frame.

Figure C



Procedure 5

(Step 6) Take the open end cable and attach to the winch. 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. Take those cables and attach to the bottom of the side frame posts.
(Step 7) Take the cables with the eye-bolts and fasten them to the tops of the side frame posts. The cables with the loops are then attached to the bottoms of the side frame posts.



Procedure 6

(Step 8) Attach the cable to the winch as illustrated in figure “D”. Be sure to tighten down the clamp so that the cable doesn’t slip out.
(Step 9) To mount the winch wheel, 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 5/16” x ¾” bolt and washer to bolt the wheel to the winch. See figure “E” for example.

Figure D

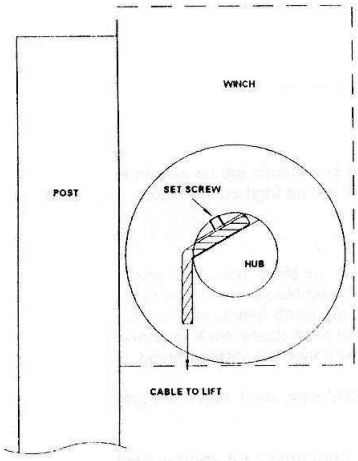
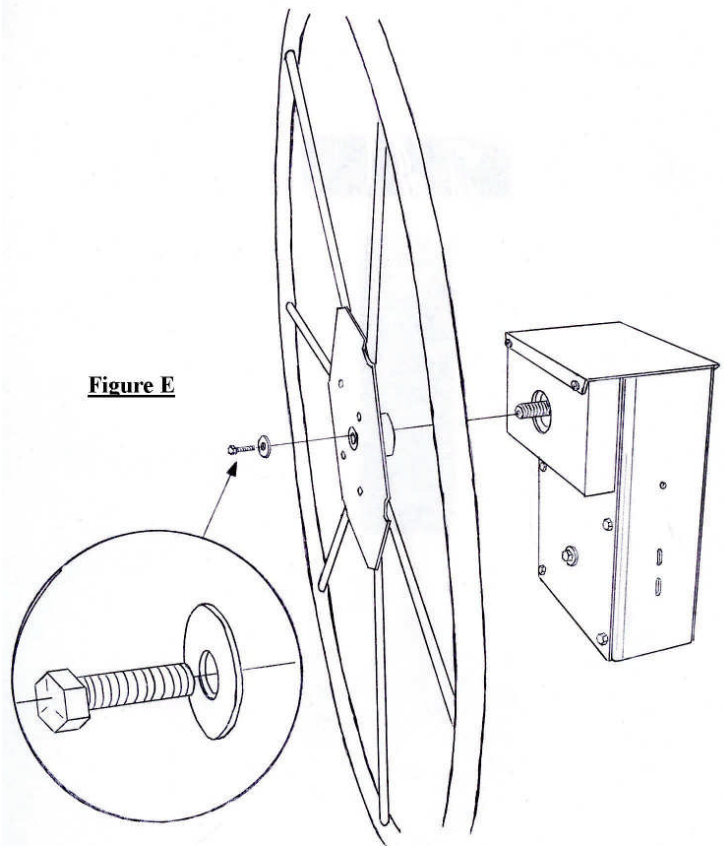
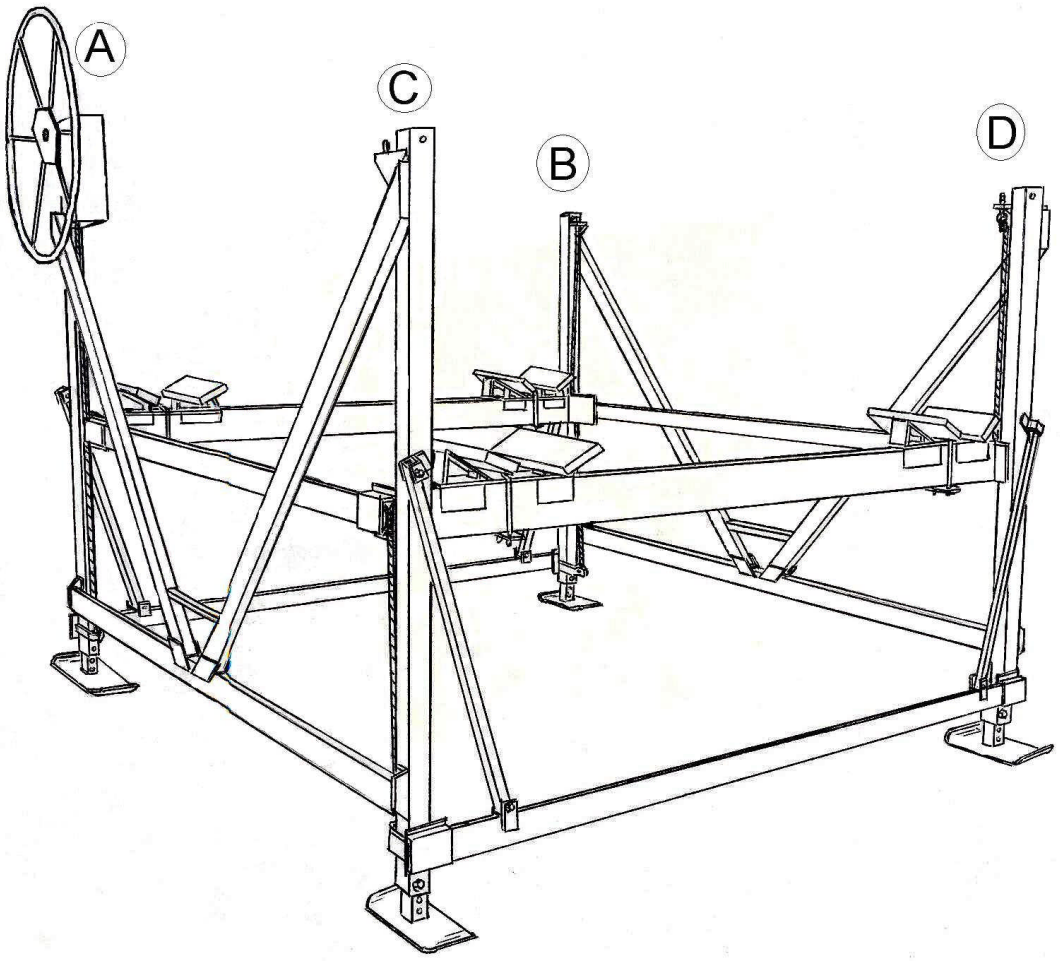


Figure E



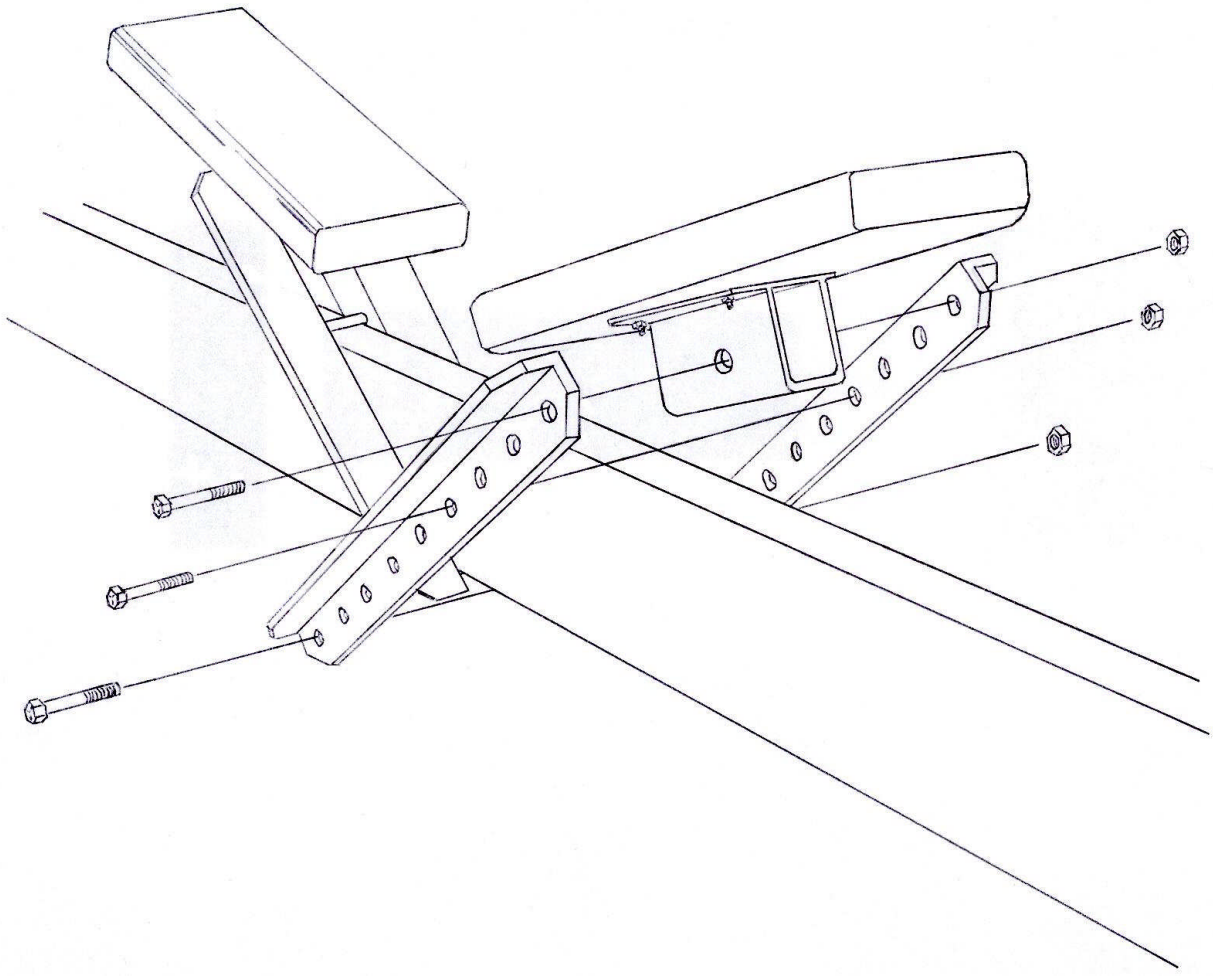
Procedure 7

(Step 10) Prop up the platform on a pair of sawhorses. Connect all the looped ends of the cables to the bottoms of the upright posts with the ½ x 3" bolts. Attach all the eye bolts to the top of the upright posts. Insert the open end cable into the winch and tighten the set screw inside the winch.
(Step 11) Turn the winch wheel clockwise until the platform starts to raise then remove the sawhorses.
(Step 12) 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. Next, repeat the same process with the side beam cable that runs from upright A to upright C. Once the cables are adjusted, hold the bottom nut in place and tighten a second nut down to hold the position.
(Step 13) 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. Guide cables should be adjusted to be slightly looser than the other load 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 14) **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. **Check to see if the lift and the platform are level with the water regularly.**



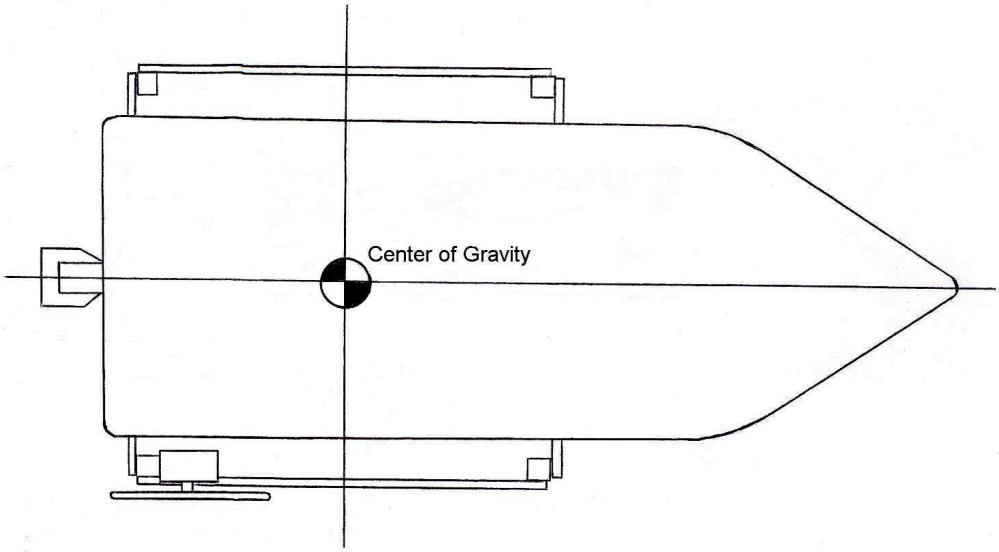
Procedure 8

(Step 15 for boat) To mount the carpeted bunks, clamp the load beam and the bunk together using the angle brackets. Use the ½" x 3 ½" bolts to connect together and leave the bolts loose. Move the bunk into the desired position on the load beam where the boat will fit firm and snug lift. After the adjustments have been made, tighten the bolts on the bunks.
(Step 15 for pontoon) Lay the bunk flat on the lift platform with the bolts facing down. Bolt the two holed plate on the underside of the lift to create a clamp and hold the bunk on firmly.

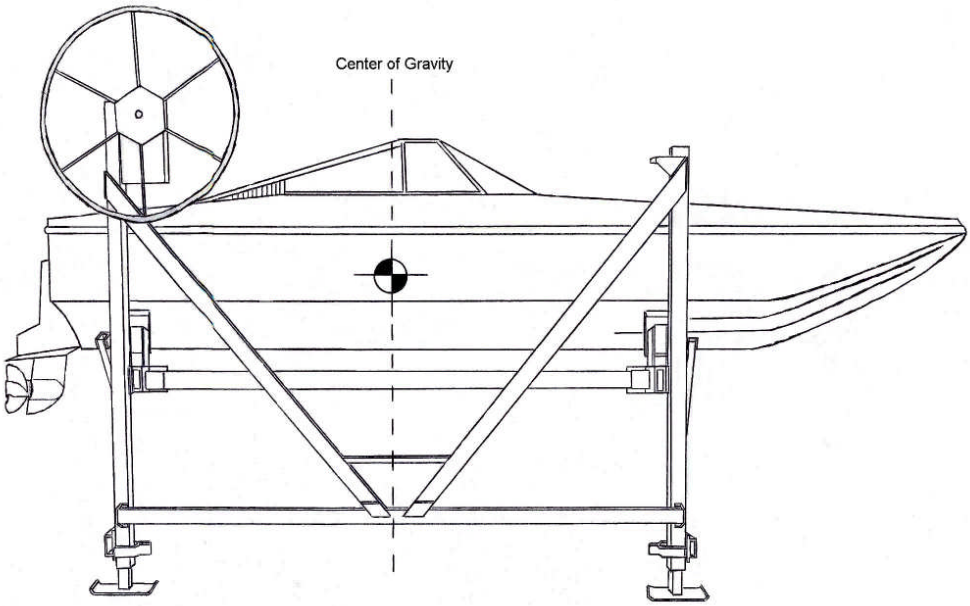


Procedure 9

(Step 16) The winch does not move from upright A. The lift can be rotated to work on both sides of the dock.



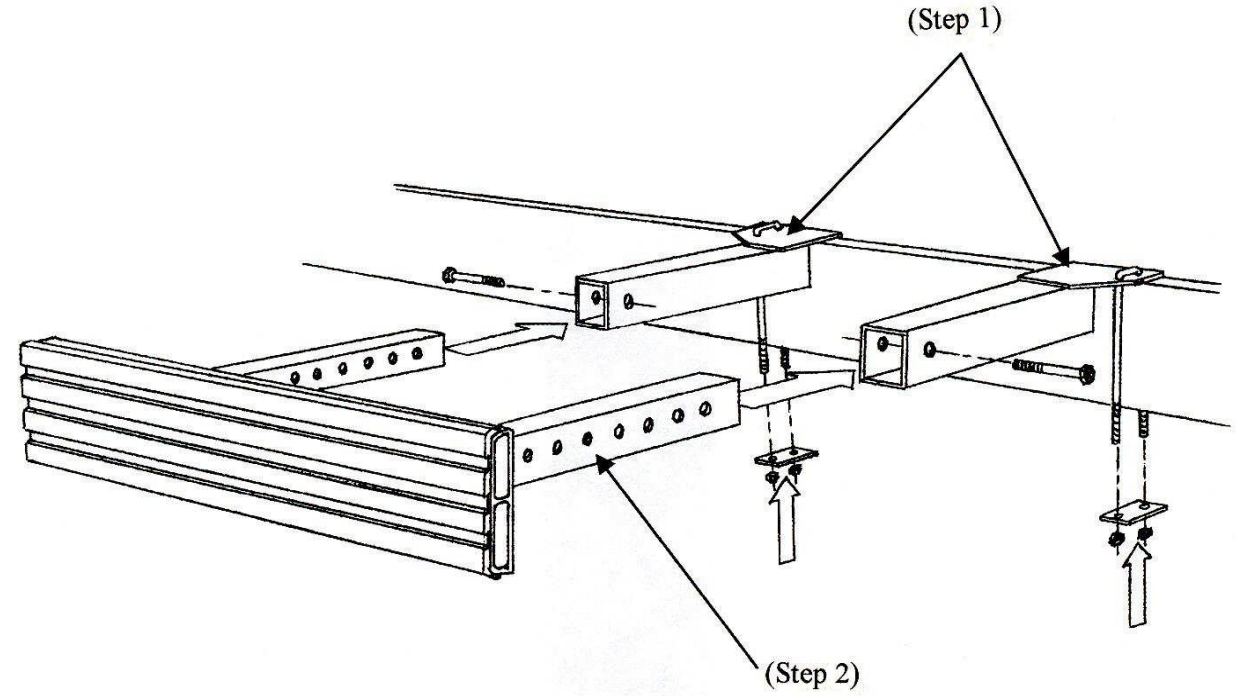
(Step 17) Most of the boats weight is in the rear of the vessel. Try to position the boat with the center of the weight in the center of the lift. It is important to have an equal amount of the weight on both the front and rear load beams. If the weight is not equally dispersed on the load beams the platform could bind with the upright beams and cause damage.

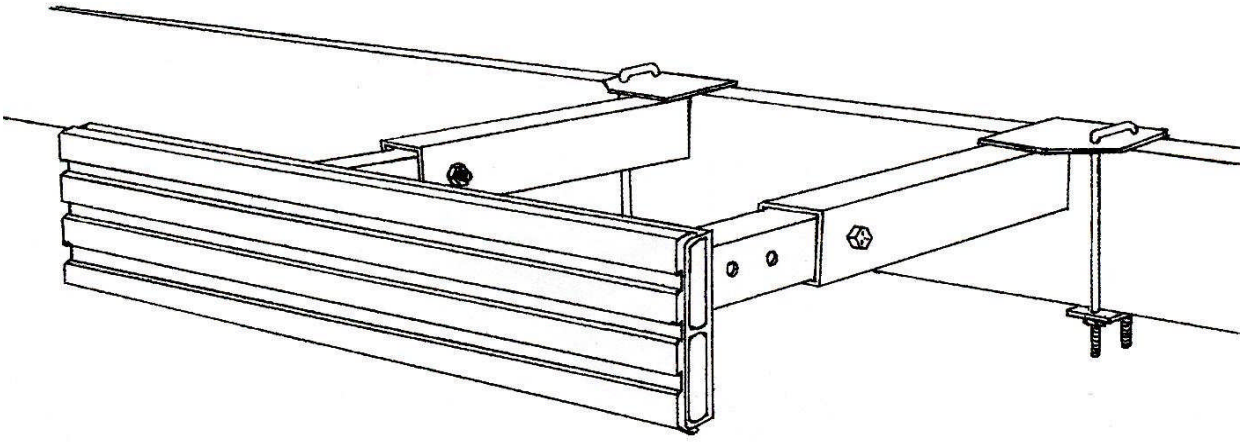


Vertical Motor Stop

Lift Accessory

(Step 1) Place the motor stop in the middle of the load beam on the lift and insert the U-bolts, as shown below in step 1. Slip the two clamping plates onto the U-bolts and tighten with four 3/8" nuts.
(Step 2) Adjust the motor stop in or out accordingly to the position you would like your boat to stop at. Insert the two ½" x 3" bolts and tighten.

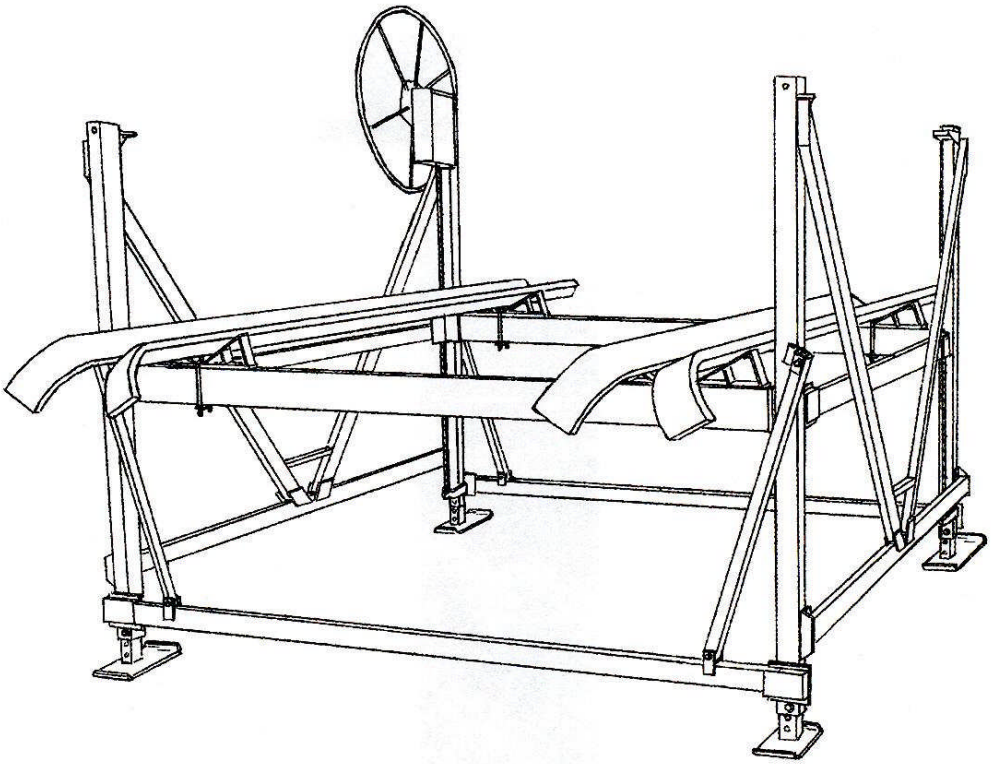


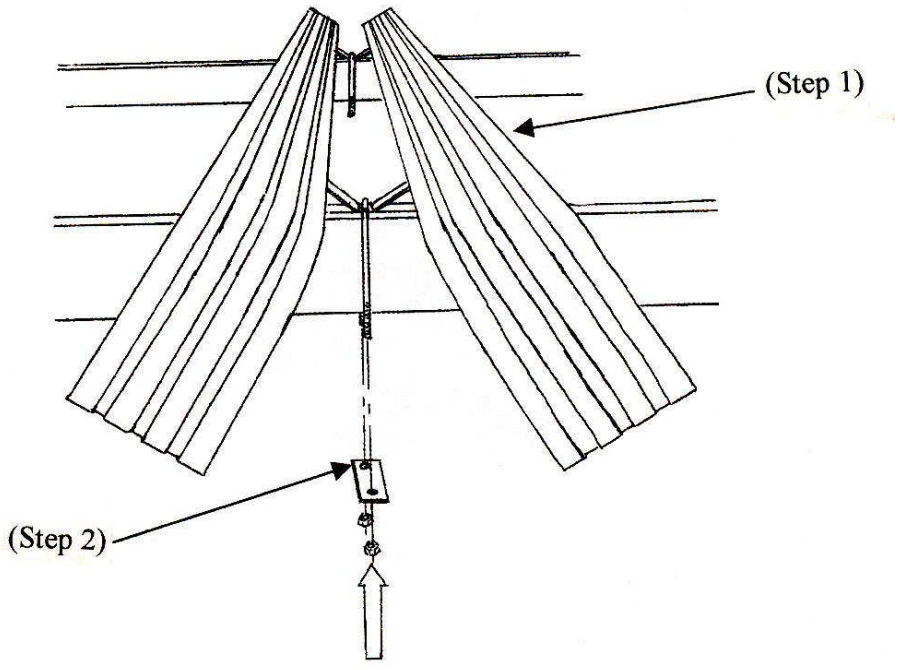


Long Pontoon Bunks

Lift Accessory

(Step 1) Place bunks on the vertical lift platform accordingly to where your pontoon floats will rest.
(Step 2) Slip the U-bolt onto the bracket as shown below, place clamping plate on U-bolt and tighten with two 3/8" nuts.

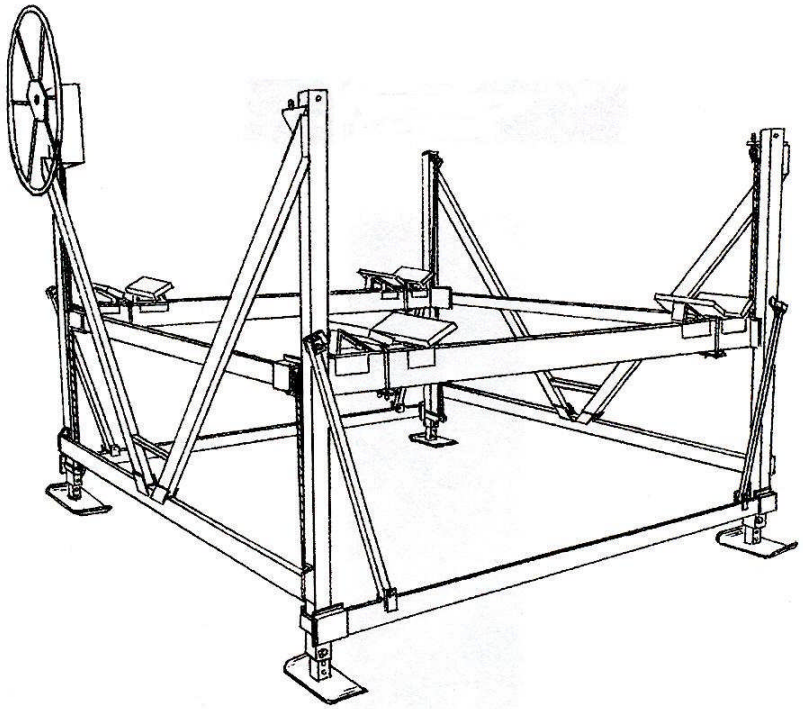


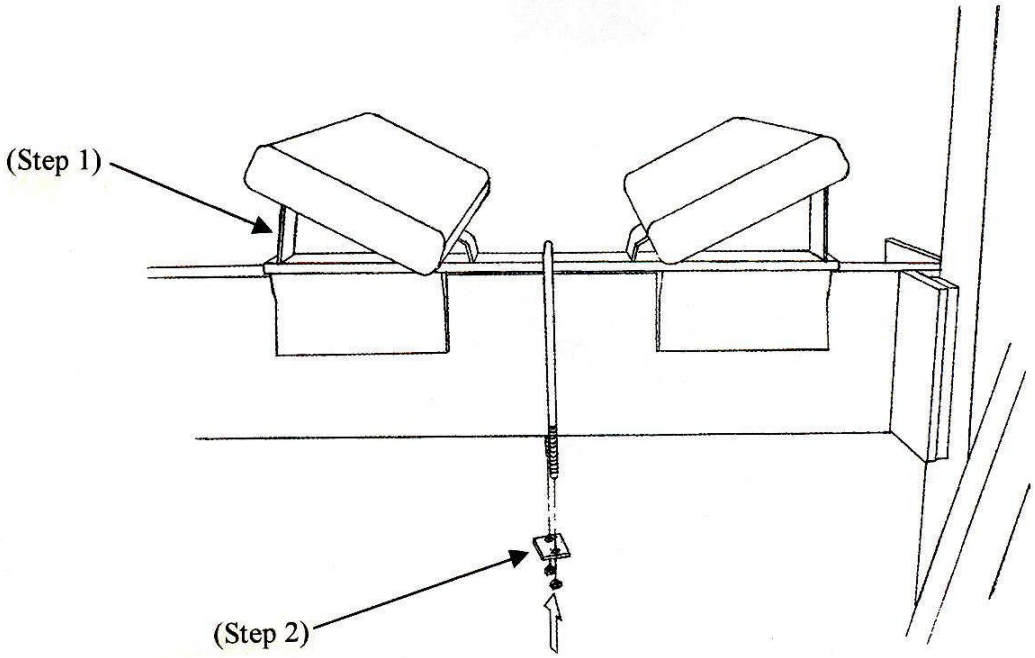


Pontoon V-Bunk

Lift Accessory

(Step 1) Place V-bunks on the vertical lift platform accordingly to where your pontoon floats will rest.
(Step 2) Slip the U-bolts onto the brackets, as shown below, place the clamping plate on the U-bolt and tighten with two 3/8" nuts.





Pontoon Rail Kit

Lift Accessory

(Step 1) Place the lower portion of the rail kit brackets on the load beam of the vertical lift. Slip a U-bolt on either side of the bracket, as shown in figure "A". Attach the two clamping brackets on the U-bolt with the 3/8" nuts.
(Step 2) Adjust the height of the rail kit to the size of your pontoon floats and fasten with two 3/8" x 3" bolts.
(Step 3) On the clamp, shown in figure "B", insert the 3/8" x 4" bolts, but do not tighten.
(Step 4) Place the rails into the brackets and on top of the bolts. Now tighten the bolts, this will cause the brackets to close in on the runners and hold them in place.

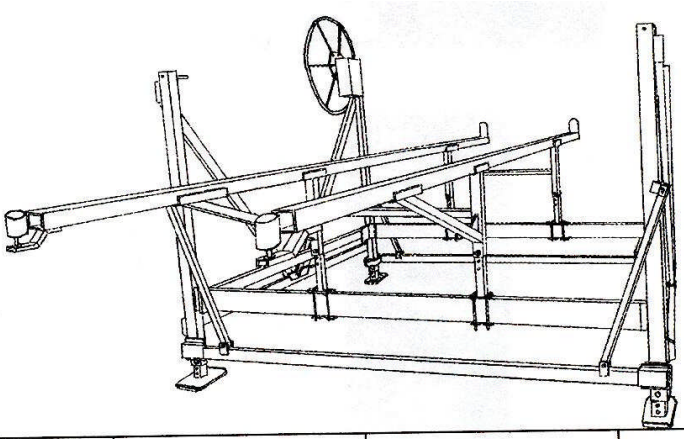


Figure A

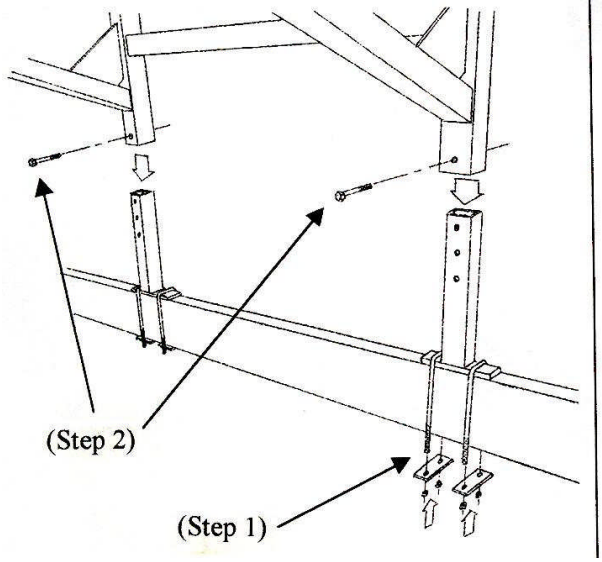
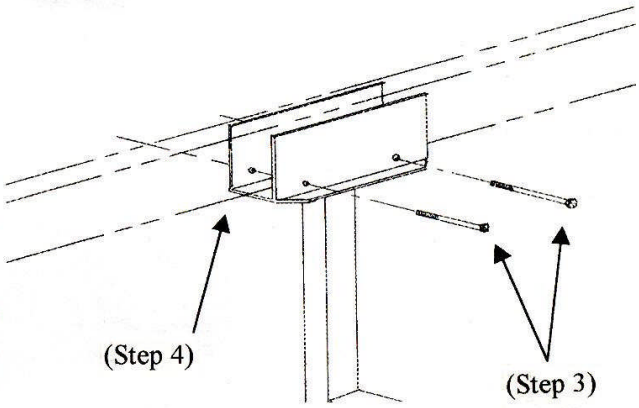


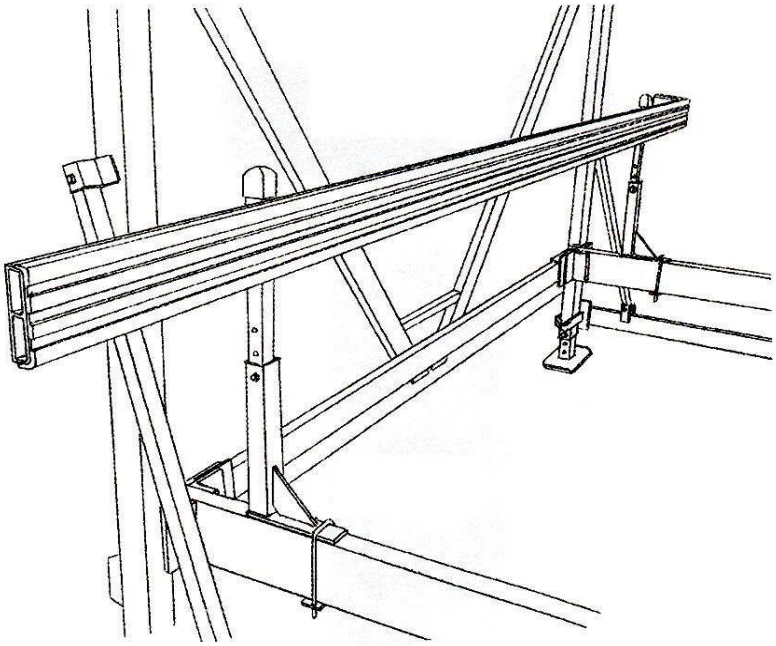
Figure B

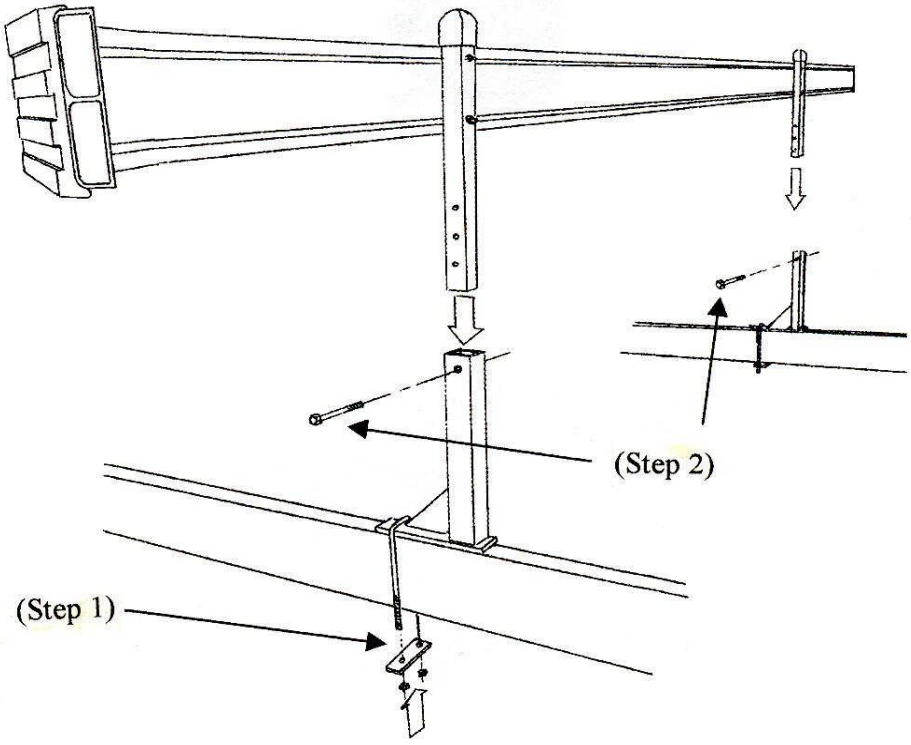


Side Guide Rails

Lift Accessory

(Step 1) Place side guide on the vertical lift platform in the desired location, remember to keep the leg of the brackets facing the inside of the lift. Slip the U-bolt on the bracket, as shown below. Place clamping plate on U-bolt and tighten with two 3/8" nuts.
(Step 2) Adjust the guide rails to the desired height and insert the 3/8" x 2 ½" bolt.

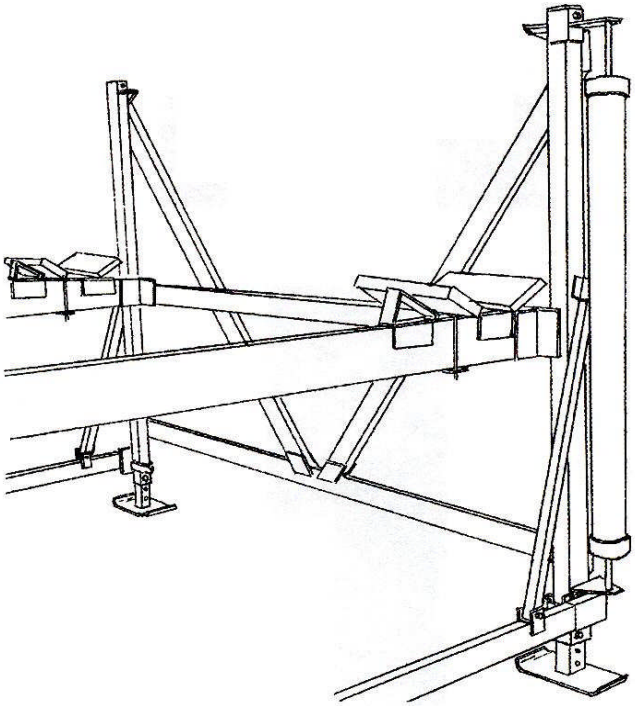


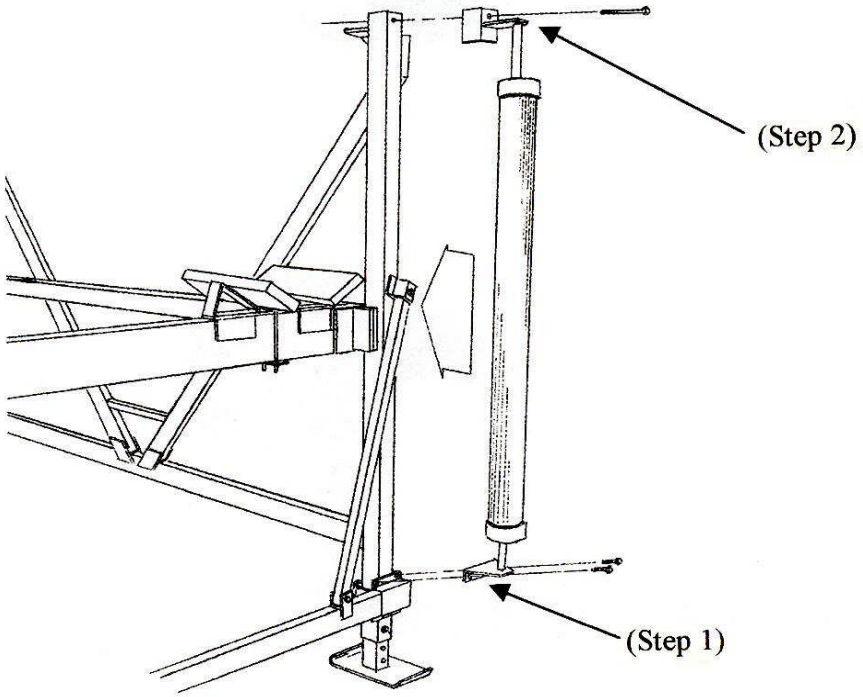


Guide Roller

Lift Accessory

(Step 1) Remove the 3/8” x 1” bolts on the top of the spreader bars facing the lake. Place the guide roller into position on the lift and install two 3/8” x 1 ½” bolts in the place of the two bolts that were just removed, as shown below.
(Step 2) On the top section of the roller install the 3/8” x 4” bolt through the roller bracket and the lift upright.

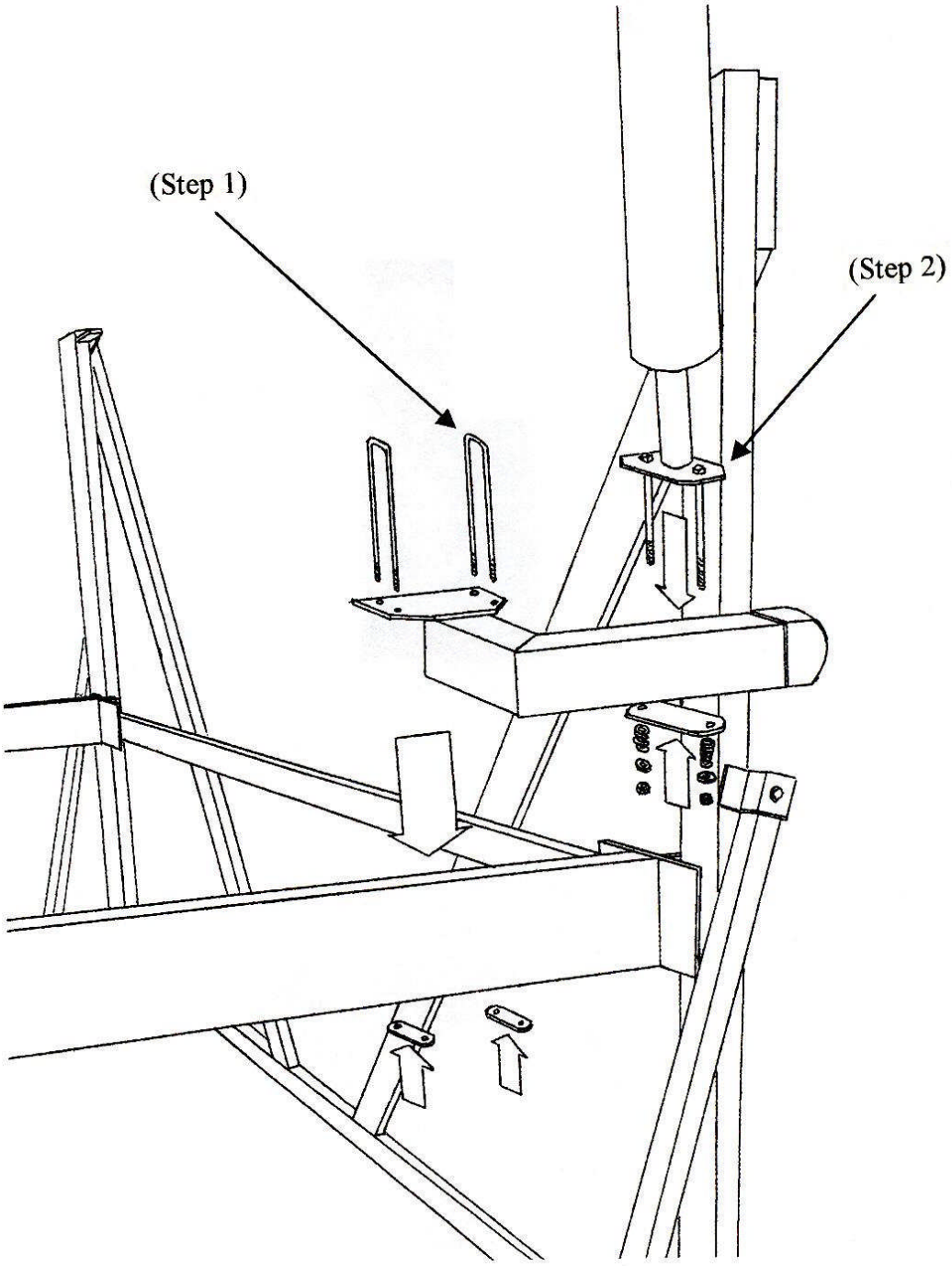




Guide-On Bumper

Lift Accessory

(Step 1) Place guide-on arm on the load beam with the arm outwards from the lift. Insert the U-bolts and fasten with the clamping plates and 3/8" nuts, as shown below.
(Step 2) Attach the guide-on bumper to the guide-on arm, which is already fastened to the lift. Slip on the plate first, then the springs, the washers and then the 3/8" nuts. Adjust the bumper to the desired location on the arm and tighten.



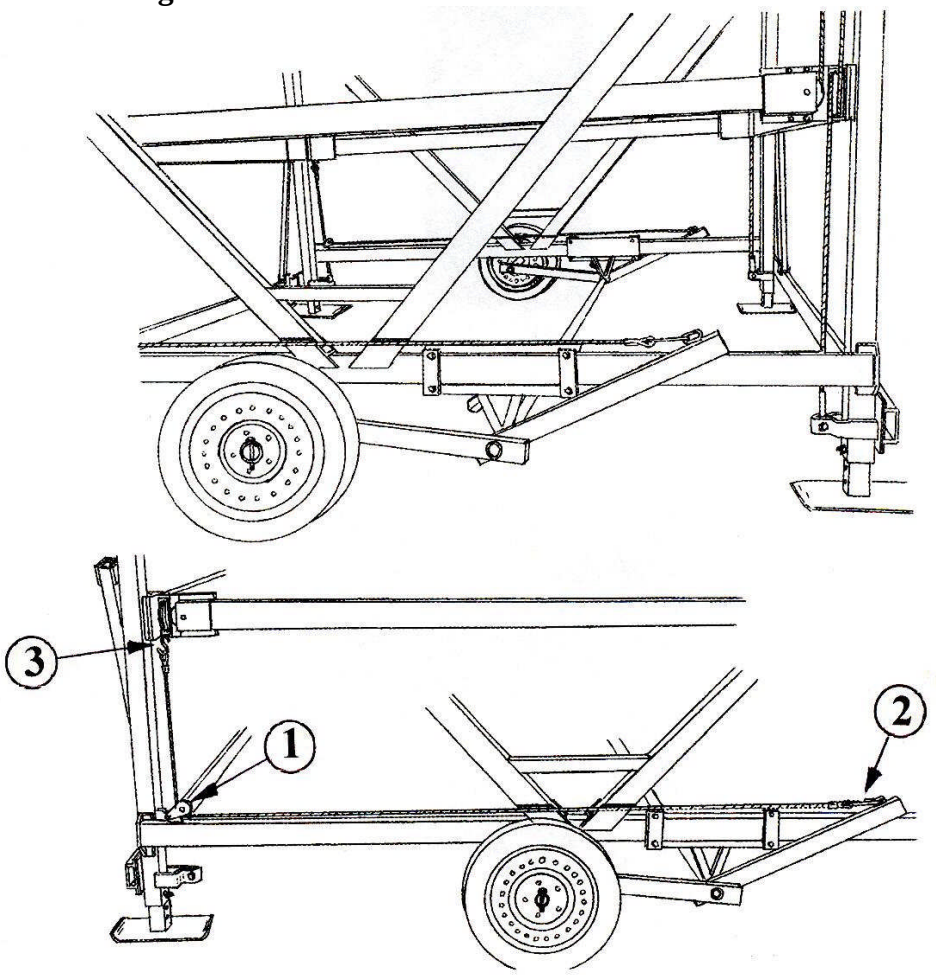
Wheel Kit

Lift Accessory

(Step 1) Place wheel kit assembly underneath the vertical lift with the wheel end of the axle closest to the winch end of the lift. The center of the wheels should be as close as possible to the center of gravity of the lift. Connect wheel kit to the lift by bolting the connecting plate with the two clamp plates, make sure that the carriage bolt heads are facing the inside of the lift.
(Step 2) Attach the tires to the part of the axle sticking out beyond the lift. Bolt the pulley with the cable strung through it, in the corner of the lift labeled (1) shown below, on both sides of the lift.
(Step 3) Lower the lift into the down position. Hook the snap hook end of the cable to the wheel kit arm with a cable link welded on, labeled (2). Connect the open hook to the hole drilled on the load beam labeled (3). When this has been done on both sides then you can raise the lift by cranking the winch wheel in the clockwise direction.

Warning:

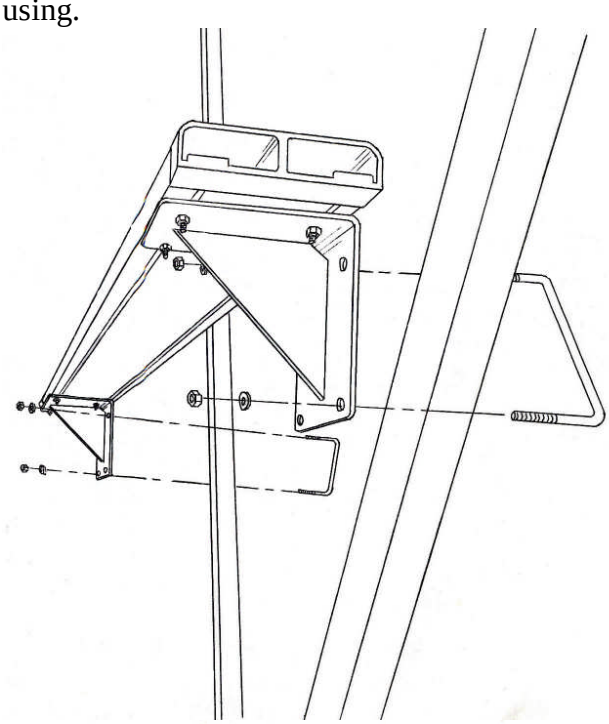
1. The weight capacity of the wheel kit is 600 lbs. Make sure that all four lift legs are worked free from the lake bottom before attempting to raise the lift with the wheel kit. Otherwise, you will bend or damage the wheel kit.
2. To avoid injury, do not raise the lift past the center of the tires.
3. Vibo Marine will not warranty any wheel kit that has been damaged due to failure to abide by these warnings.

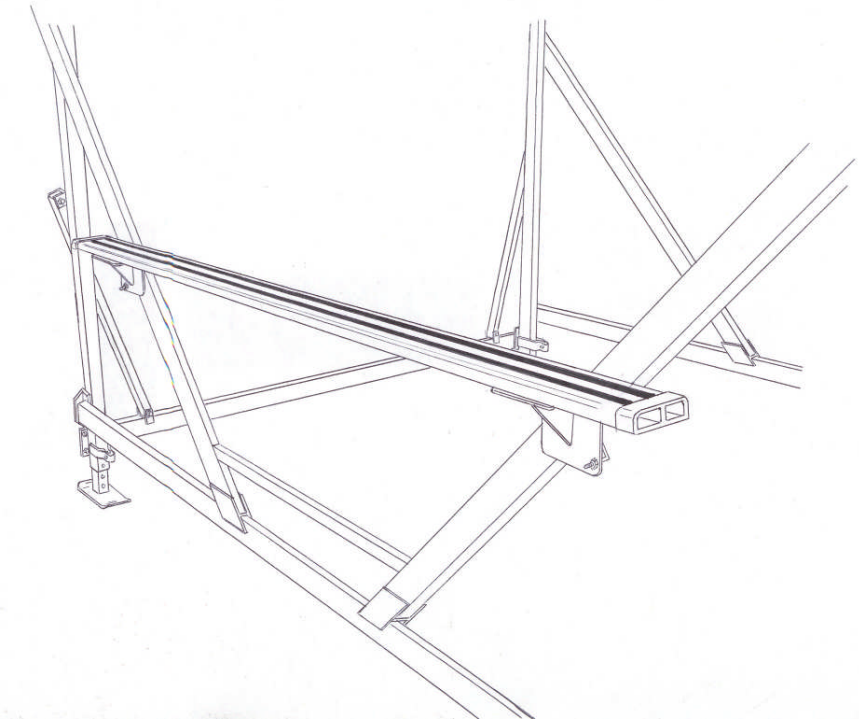


Lift Step

Lift Accessory

(Step 1) Position the lift step 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, clamp the upright with the brackets on the step. Be sure to tighten all bolts before using.

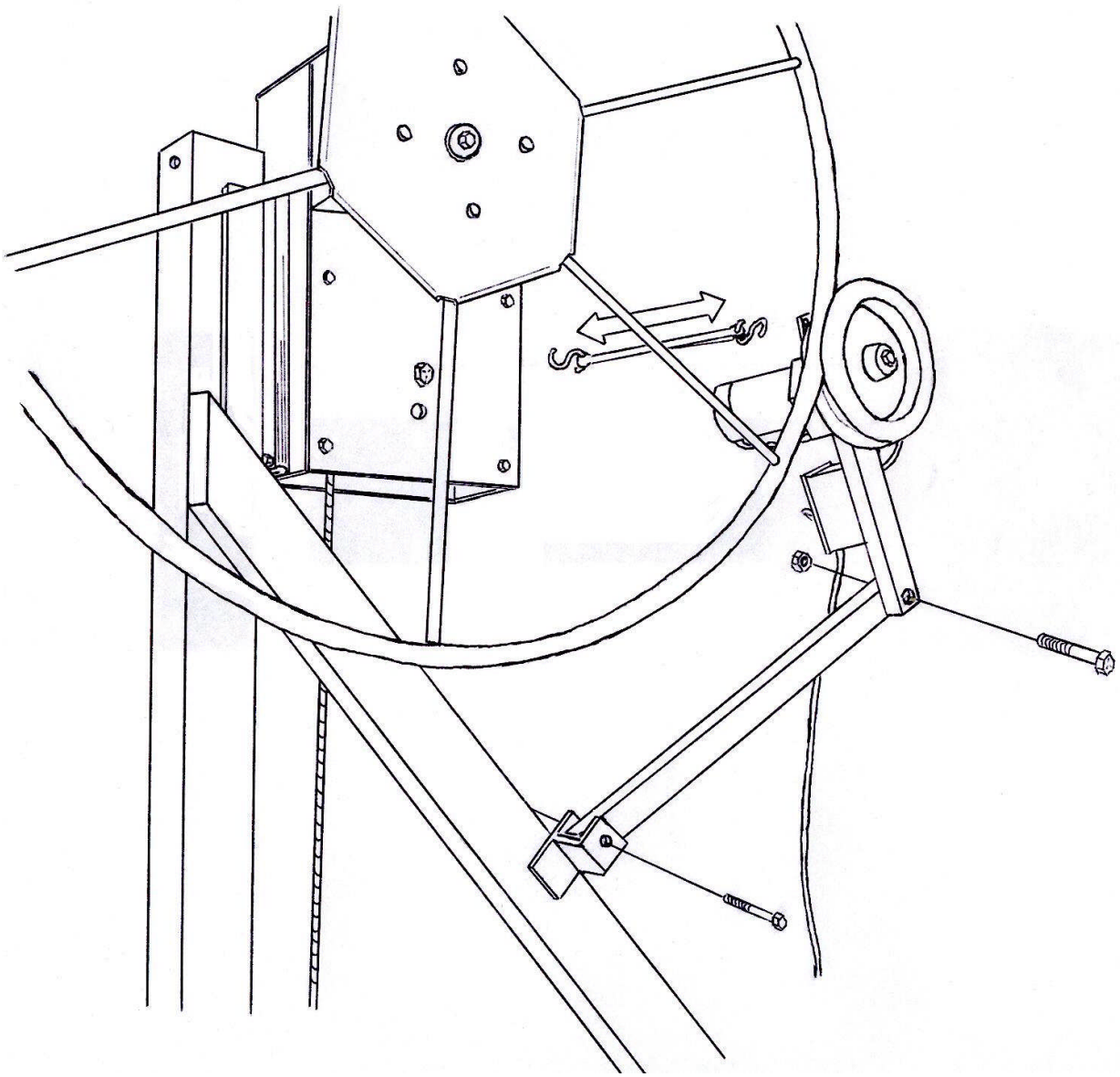




Lift Mate Elec. Drive

Lift Accessory

(Step 1) Bolt the 1 ½" x 1 ½"tube to the bracket located on the 45 degree upright under the winch using a 3/8" x 2 ½" bolt.
(Step 2) Connect the Lift Mate electric drive to this arm. Create tension to the winch wheel by using the bungee cord, as illustrated below. After Lift Mate is tight on the winch wheel connect the power source.



Solar Charger Panel

Lift Accessory

(Canopy Bracket Assembly) Attach the solar panel arm to the canopy bracket using the two 3/8" x 3 ½" bolts. Mount the solar panel to the arm using a ¼" x 1 ½" carriage bolt.
(Canopy Frame Assembly) Slip the solar panel arm onto the canopy frame and fasten down using a 3/8" x 3" bolt. Mount the solar panel to the arm using a ¼" x 1 ½" carriage bolt.