

# SHOREMATE®

*FIRST BY DESIGN*

## BOAT LIFTS & DOCKS

## Assembly Instructions Hydraulic Lift



NOTE: Annual inspection of the lift, pump, hoses, and fittings is required. Inspect all lift bolts to assure nothing has loosened up, tighten if required. Inspect pump, hoses, and fittings for leaks and take required corrective action of tightening parts or replacing damaged parts.

Inspect the seals of the hydraulic cylinders annually (more depending on water conditions) to make sure they are not damaged or leaking. When the lift is removed from the water, be sure to clean the cylinders of any debris. Chemical deposits like lime, iron, calcium etc. may require the rods be cleaned. In the event of hard deposits on the rod, cleaning may require very fine steel wool. Deposits should be removed to prevent premature failure of cylinder seals. Should other items require maintenance, or replacement, please contact your Shore-Mate Dealer or contact Shore-Mate Directly.

**CAUTION: Never allow anyone on or underneath the lift while operating, or while the lift is in the raised position.**

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Before assembling this hoist, please familiarize yourself with this manual, as it will lead to a much easier installation process. The following items are a suggested list of tools that will be helpful when assembling this hoist.

- Hammer
- Locking Pliers
- Level
- Tape Measure
- 1/2", 9/16", 5/8", 11/16", 3/4", 7/8" Open End Wrench
- 1/2", 9/16", 5/8", 11/16", 3/4", 7/8" Deep Well Sockets
- Ratchet

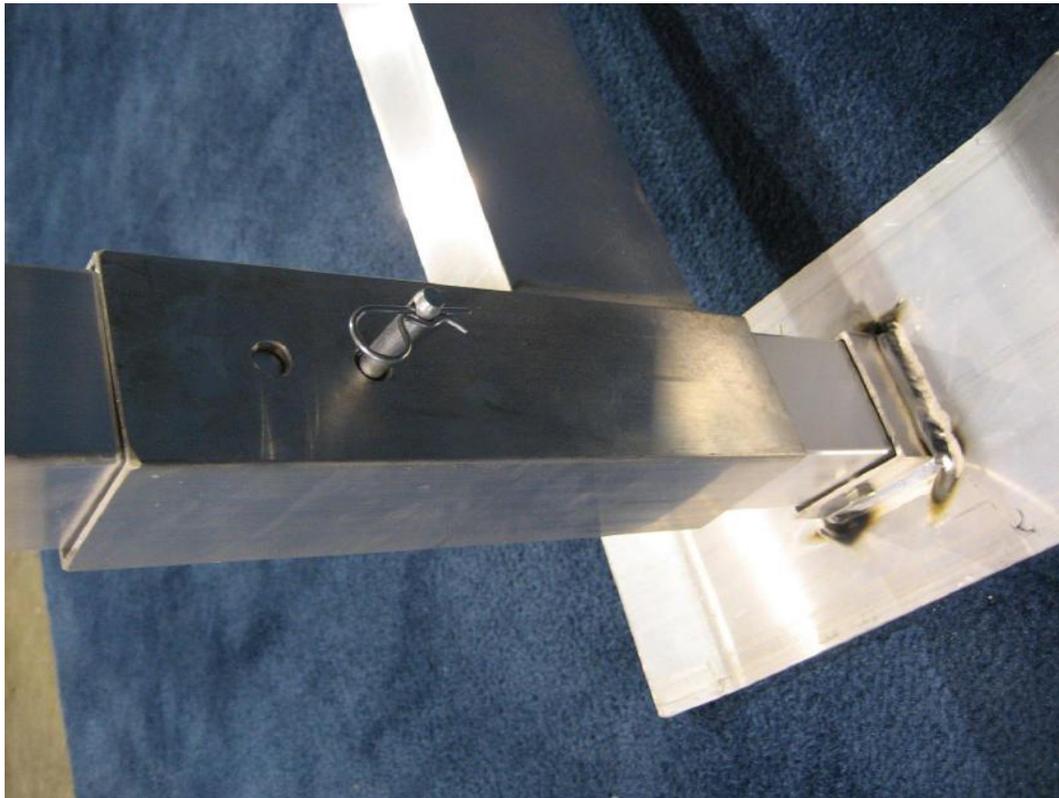
#### Step 1: Assembling Lift Legs

Take the 3' Lift Leg and attach the foot pad using the 3/8" x 3 - 1/2" inch bolt and the 3/8" flange nut. Repeat this step for the other three remaining legs.



### Step 2: Attaching the Lift Legs to the Lift Beams

Slide the assembled lift legs into two pockets on the front and rear beams. Insert the hitch pins in through the pockets on the beams and through the leg, use the cotter pins to secure the legs. Make sure that the pins are in the same hole on each leg, you will level the lift at a later time.



### Step 3: Attaching the Front and Rear Beams to the Lift Cradle

Set the cradle on the beams as shown in this picture:



Measure the beams and center the beams on the cradle as best as possible. Using the  $3/8''$  x  $6 - 1/4''$  x  $3 - 3/4''$  U-Bolts attach the front and rear beams by using the  $3/8''$  flange nuts as shown in the picture below:

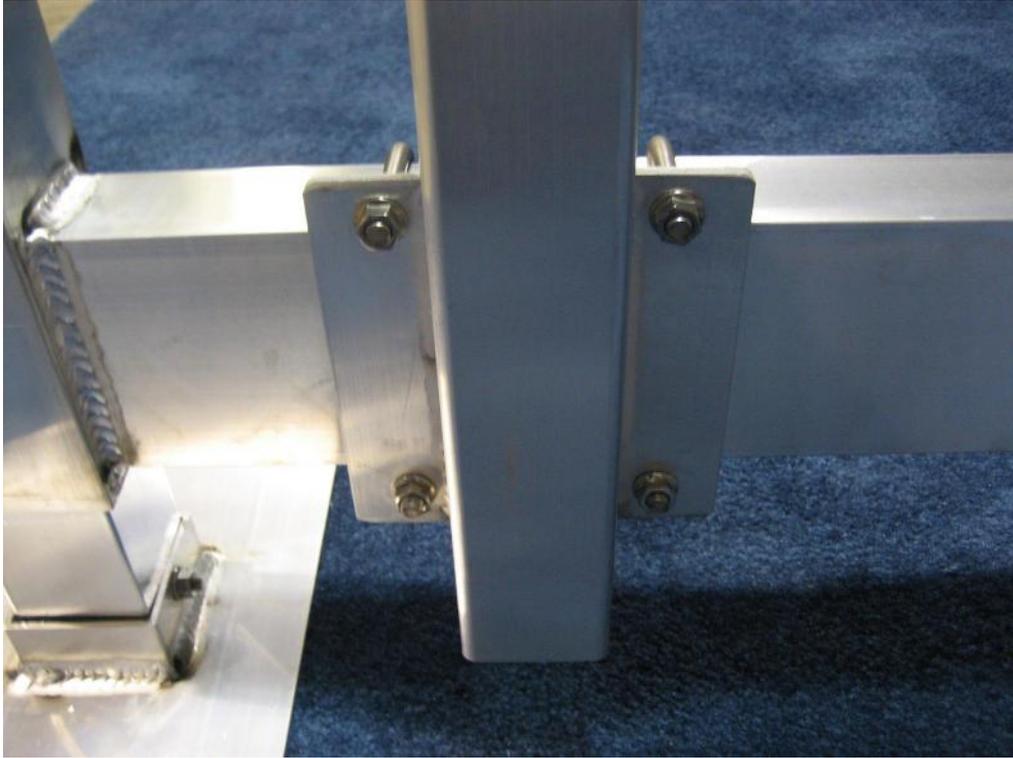


This is what your lift should like up to this point:



#### Step 4: Attaching the Side Guides (optional)

This step optional depending on if you purchased a set of side step guides or not. Attach the side guide brackets so that the brackets are facing one another in the inside of the bed beams. Use the  $3/8'' \times 2 - 3/4'' \times 4 - 1/2''$  U-Bolts to attach the side guide brackets to the beam. Tighten the U-Bolts using the  $3/8''$  flange nut as shown in the picture on the next page.



This picture is showing the brackets from the inside of the lift. The brackets on the other side should face inward like these brackets.

#### Step 5: Attaching the Side Guides to the Brackets

Take the 12' carpeted side step guides and attach them to the side guide brackets by using the 3/8" x 3" bolts and the 3/8" flange nuts as shown below:



This is what the side guide will look like on all four posts.

This is what the finish product will look like:



**Pump Attachment:** The hydraulic hoses come already attached to the cylinders of your hydraulic lift. The two long hoses attached to your cylinders should be placed through the hole either in the side or on the back of the black plastic box containing the pump. Place the hose with the larger (female end) through the hole first and then the hose with the smaller (male end). Next attach the female end to the male end on the pump and the male end to the female end on the pump. A couple drops of fluid may leak out while making the connections, but that is nothing to be worried about. Be sure to screw on the fittings as far as physically possible. It will be necessary to tighten the fittings with tools to ensure the fittings are 100% connected. Next, connect your battery, a Marine Deep Cycle 27 Series is suggested. The hydraulic system has been pre-charged at the factory, and now is ready for use. All hydraulic pumps are shipped from the factory with the flow control valve completely closed and will not operate the lift. The flow control valve is located on the bottom hose fitting of the pump. The valve is about 1" square by 3" long. The adjustment knob is located on top side. Once you have the lift operating correctly you will need to adjust the valve to your boat's weight. Loosen the Allen screw and open the valve two turns counter clockwise (further adjustment may be needed depending on your boat). Once the lift is operating

smoothly be sure to tighten the Allen screw back down to set the flow control valve. If the lift jerks on the way down then the valve needs to be turned clockwise a 1/2 turn until smooth. Adjust the valve a 1/2 turn at a time.

## **Final Inspection, Testing of Hydraulic System & Installation of the Lift:**

1. Survey the area you wish to set your lift and be sure that there are no obstructions, such as rocks, stumps, etc. If necessary you may need to relocate your lift.
2. Be sure to check all of the nuts and bolts to make sure they are tight. If your lift legs need adjusting for the contour of the bottom, make those adjustments prior to putting the boat on the lift.
3. Raise the bunks so that they are even with the water.
4. Adjust the lift legs until the bunks are all even with each other. If you should happen to require longer lift legs then please contact your dealer you purchased the lift from.
5. Once again inspect the lake bottom to ensure that only the four foot pads are resting on the lake bottom. Remove any obstructions if need be.
6. Be sure to test the system by running it up and down
7. Lower the lift to its lowest position.
8. Float your boat on to the lift and check is there are any obstructions when raising the lift.
9. Raise the lift until the bunks touch the hull of your boat. STOP. Again, check for any obstructions.
10. Raise the lift 6" and wait. Depending on your lake bottom the lift may settle and cause the lift to not be level. Lower the lift and remove your boat.
11. Repeat steps 3-7 until the lift is settled and level. Remove your boat and tighten the bunks. The bunks should have swiveled to contour the bottom of your boat.

## ***REMINDER***

- **Never allow anyone under on on the lift, especially when in use.**

***Do NOT attempt to operate this lift without reading and UNDERSTANDING the following safety checklist***

- **Never allow anyone on or underneath the lift while operating, or while in the raised position.**
- **Never operate the lift while there are people in the boat.**

- **Assemble the lift completely and according to the instruction before attempting to operate.**
- **Be sure that anyone operating this lift fully understands the proper operating procedures first.**
- **Inspect hoses, cables, and fittings annually. Replace if worn. Clean cylinder shafts annually.**
- **Do not exceed the maximum capacity that your lift is designed to hold. (Your warranty will be voided for damage caused by excess weight) Please note that water adds significant weight to your boat. Please make certain that all water is drained from your boat before operating.**
- **Although it may seem convenient, never allow anyone to clean the boat hull or make repairs while the boat is on the lift or the boat is in the raised position.**