



7000 LBS.
CAPACITY ATLAS
HYDRAULIC
BOAT LIFT

Assembly Guide

ATLAS LIFTS ARE BASED ON A TIME TESTED DESIGN,
PROVIDING QUALITY PRODUCTS AND A WIDE
VARIETY OF ACCESSORIES TO CUSTOMIZE TO YOUR
SPECIFIC NEED



Date Of Purchase: / /

www.atlasboatlifts.com

Tools Needed:

Tape Measure	(2) 9/16" Wrench	(2) 3/4" Wrench	(2) 1/2" Wrench
(2) 15/16" Wrench	Crescent Wrench	Rubber Mallet	(4) 4' Boards (Recommended)
Ladder	Knife		

Step #1 Count and Sort Hardware**Parts:**

(4) Legs	(1) Pump Box	(2) Side Spreader Beams 154"	(2) Front/Back Spreader Beams 118"	(2) Cradle I Beams	(2) Flat Cradle Tubes
(1) Hydraulic Winch Tube	(1) V Brace Tube 131"	(1) Accessories Parts Box	**Bunks and Accessories Sold Separately**		

It is very important to have all the hardware needed to assemble this boat lift. Open the box that has the hardware in it. Then sort the hardware and the other components by size to avoid confusion. Each bag of parts corresponds to a step of the building process.

**Assembly Time:****1 Person- 5 Hrs****2 People- 3 Hrs**

Step #2 Assemble the Foot Pads

Parts Needed:

(4) Foot Plates

(4) Foot Plate U Brackets

(8) 3/8 - 16 x 25 Carriage Bolts

(8) 3/8 -16 Brass Lock Nuts



Collect 2 carriage bolts (3/8-16 x 25) and 2 lock nuts (3/8 - 16) for each foot pad. Align the holes on the foot pad and the channel clamp and insert the bolts from the bottom of the foot pad into the corresponding holes in the channel clamps. Place the nut on the bolt and tighten the nut down. Repeat for all 4 of the foot pads. Use the illustration below (2-1) to see the orientation of each part.



(2-1)

Step #3 Align Clamps on Legs

Parts Needed:

(4) Legs

Each leg has a clamp that must be oriented specifically when assembling the boat lift. The brackets on the bottom of the legs must form a square when placed into the final assembly position. Flipping the brackets on some of the legs may be required to ensure the proper assembly of the bottom frame.

Step #4 Assemble the Foot Pads to the Leg

Parts Needed:

(4) 1/2 -120 Bolts

(4) 1/2 -13 Nut

(4) Legs

(4) Assembled Foot Pads

Align the hole on the foot pad bracket with the hole on the leg, and slide the bolt through. Secure the bolt with the brass nut. Use the illustration (4-1) below to help.

Note: The legs have adjustable tubes inside of them to level the boat lift once installed. To adjust the length of the leg, remove the pin and reinsert into hole of desired height.



(4-1)

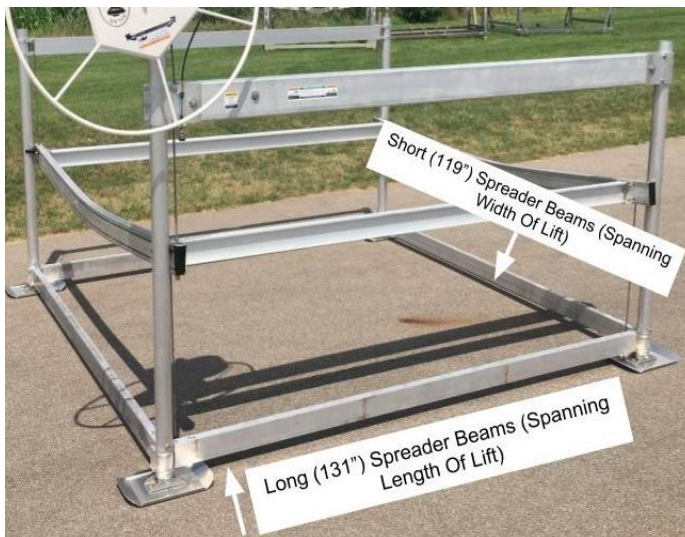
Step #5 Assemble the Lower Frame

Parts Needed:

- (2) Side Spreader Beams 2"x8"x154"
- (2) Front/Rear Spreader Beams 2"x8"x118"
- (16) 3/8-228 Stainless Bolt
- (16) 3/8 -16 Brass Lock Nuts
- (32) 3/8 Flat Washer



To assemble the bottom frame, spread the legs out in a rectangle so the clamps align. The long spreader beams will connect the front and back, and the short will run from side to side, as pictured below(5-1). Slide a washer on each bolt, and install in the two holes closest to the leg. Then add a washer below the spreader beam and tighten with the lock nut. See image (5-2) below.



(5-1; 5000lb Cable Lift shown above)



(5-2)

Step #6 Mount Cable Gusset Plates

Parts Needed:

(4) Cable Gusset Plates

(8) 5/8-250 Stainless Bolts

(8) 5/8-11 Brass Lock Nuts

(16) 5/8 Flat Washer



Add a 5/8 flat washer to the bolt and slide into the third hole in the aluminum frame beam. Slide the cable gusset plate onto the bolt below the frame, add another washer, and tighten with a 5/8 lock nut. See image (5-2) above for reference.

Step #7 Assemble Corner Guides

Parts Needed:

(4) Corner Guides

(2) Cradle Tubes

(4) 3/8-55 Carriage Bolt

(4) 3/8 -16 Brass Lock Nuts

(4) 3/8 Flat Washer



Lay 4 boards across the corners of the base of the lift. Then, rest the Cradle Tubes on the front and rear of the lift, across the boards. See image (6-1) below. The Cradle Tube has a cable going out the top, and one out the bottom. The cable going out the bottom of the tube should be positioned on the same side that the pump box will be. Add the carriage bolts, washers, and lock nuts to the Corner Guide. Slide the Corner Guide into the top channel on the Cradle Tube so it can partially wrap around the leg. The plastic guide should stick above the cradle frame. Do not tighten the lock nuts at this time. See image (6-2) below.



(6-1)

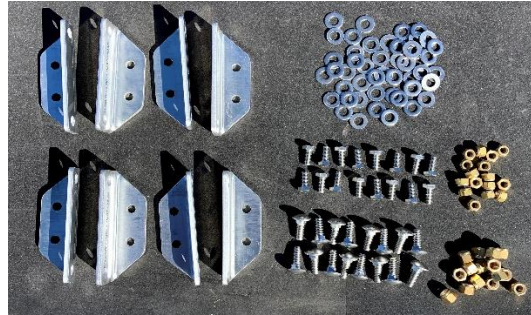


(6-2)

Step #8 Assemble Side Cradle I Beams

Parts Needed:

- (2) I Beams
- (8) Brackets
- (16) 3/8 -25 Carriage Bolts
- (16) 3/8 Flat Washer
- (16) 3/8 -16 Brass Lock Nuts
- (16) 5/16 -18 Bolt
- (16) 5/16-18 Brass Lock Nuts
- (32) 5/16 Flat Washers



Insert 2 Carriage Bolts in the inside top track of the Cradle Tube for the bracket to be bolted to. Loosely attach the bracket with washers and locknuts. Slide the bracket down at least 3" from the end. Tighten the bracket in the top track of the Cradle Tube at the desired measurement. Repeat for all the remaining top brackets on each corner of the cradle. Loosely add all lower brackets to the lower track of the V Cradle Tube. See image (7-1) below.

Attach the Cradle I Beam to the top bracket using the 5/16 bolt, a washer on each side, and a brass lock nut. The side of the I Beam that faces up has ridges. Do not tighten yet. Slide the lower bracket into position and fasten to the I Beam with 5/16 bolts, washers, and lock nuts. Leave loose. Repeat on the other end of the I Beam. Then tighten all the 5/16 bolts with a 1/2" wrench. See image (7-2). Then tighten the 3/8 carriage bolts holding the bottom bracket to the cradle.



(7-1)



(7-2)

Step #9 Add Spacer Brace Tube

Parts Needed:

- (1) V Brace Tube
- (4) Clamp Brackets
- (4) 3/8 - 51 Bolt
- (4) 3/8 - 95 Bolt
- (8) 3/8 - 16 Brass Lock Nut
- (8) 3/8 Flat Washer



Mount two clamp brackets to each end of the brace tube using two 3/8 -95 bolts, two washers, and a lock nut. Then add the 3/8 -51 bolts to the furthest holes with two washers and a lock nut. See image (8-1) below.

Install the tube between the 2 legs opposite of the pump box. The top of the clamps should be positioned 5.5" from the top of the leg. Be sure the clamps are level before tightening all four bolts. See image (8-2) below.



(8-1)



(8-2)

Step #10 Add the Hydraulic Winch Tube

Parts Needed:

- (1) Hydraulic Winch Tube
- (4) Clamp Brackets
- (6) 3/8 -51 Bolt
- (6) 3/8 Brass Lock Nut
- (12) 3/8 Flat Washer
- (6) 1/2 -138 Bolt
- (6) 1/2 -13 Brass Lock Nuts
- (12) 1/2 Flat Washer



Mount the clamp brackets to the ends of the hydraulic winch tube using three 1/2 -138 bolts through the tube, with two washers and a lock nut on each. Leave them loose. Add the 3/8 -51 bolts to the outer holes on the clamps with two washers and a lock nut each. Leave them loose.

Lift the winch tube and slide it down the winch leg and adjacent leg so the top of the clamp bracket is 5.5" from the top of the leg. See image (9-1). **This is a 2-3-man job.** Once at the height, tighten the 1/2 bolt with a 3/4" wrench, and then tighten the 3/8 bolts with a 9/16" wrench.



(9-1)

Step #11 Install Pump Box

Parts Needed:

- (1) Pump Box
- (2) Hydraulic Hoses
- (4) Hydraulic Fittings
- (8) Small bolts
- (8) Small Washers
- (2) Small Screws



Using a ladder, lift the pump box so it sits on top of the hydraulic winch tube. The box door should be on the outside of the lift. Slide the box to the far left of the tube so the mounting brackets on the bottom of the pump box line up with the corresponding holes on the winch tube. Thread the small bolts with a washer through the bottom mounting bracket and into the mounting holes on the tube. Tighten with a wrench. See figure (10-1) for reference.

Remove any shipping plugs from the hydraulic pump and hydraulic cylinder in the winch tube. Add the hydraulic fittings to the threads on the cylinder and pump where the plugs were removed. Tighten the fittings very snug with a crescent wrench. **Do not use any thread tape or pipe dope, as it could clog internal valves.** See figure (10-2) and (10-3) for reference.

Attach each of the hydraulic hoses to connect the pump to the cylinder. There are ports labeled “A” and “B”, so be sure the hoses are connected correctly. The hoses should pass through the rubber cutout in the bottom of the box. They should be routed cleanly without any bends or kinks. Tighten the hoses very snug with a crescent wrench.



(10-1)



(10-2)



(10-3)



(10-4)

Step #12 Adding Hydraulic Fluid

Parts Needed:

(2.5) Gallons of Biodegradable Hydraulic Fluid

Enviorn 46 or Equivalent

(1) Funnel

Remove the top cap from the hydraulic fluid reservoir and add approximately 2.5 gallons of biodegradable hydraulic fluid, or till the fluid is near the “MAX” line.

Once the correct amount of fluid is added, attach the corded remote to the right plug on the underside of the pump box. Connect 2 batteries in series so that the positive terminal of one battery is connected to the negative of the other. Then use the positive and negative terminals that are left to hook up the motor.

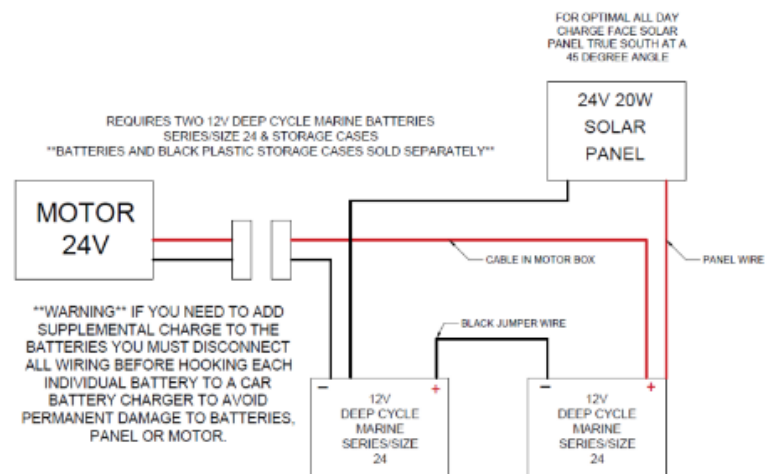
Once the motor has power, use the corded or wireless remotes to lower the cables from the winch tube down to the cradle. After operating the lift multiple times, check the hydraulic fluid level and add fluid if needed.

Step #13 Hooking Up Batteries

Parts Needed:

(2) Series 24 Deep Cycle Marine Batteries

(1) Battery Jumper Wire



First, attach one end of the jumper wire to the positive terminal on the first battery. Then, connect the other end of the jumper wire to the negative terminal of the second battery. Attach the positive cable from the pump to the positive terminal of the second battery. Finally, attach the negative terminal from the pump to the negative terminal on the first battery. The batteries are now wired in series so they provide 24v to the pump.

Step #14 Attaching Cradle Cables

Parts Needed:

(6) 5/8 -11 Nuts

(6) 5/8 Flat Washers



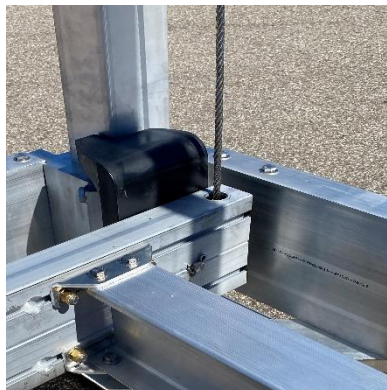
On the side of the lift opposite to the pump box, cables come out the top of the cradle tube. Run the cable from the top of the cradle tube up through the V Spreader bar above. Add a washer and thread the nut halfway down the threads. View image (12-1) for reference.

On the pump box side of the boat lift, run the cables out the bottom of the winch tube down through the bottom corners of the Cradle Tubes. Insert the cables through the outermost hole in the tube. Add a washer and nut. (12-2)

On the pump box side of the boat lift, run the cables out the bottom of the Cradle Tube down through the plates in the bottom corners of the base, near the legs. Insert them through the holes closest to the sides of the boat lift. Add a washer and a nut. (12-3)



(12-1)



(12-2)



(12-3)

Step #15 Install Safety Stop

Parts Needed:

(1) Cradle Stop Bracket

(1) Pump Stop Switch

(2) 3/8 -25 Carriage Bolt

(2) 3/8 -16 Lock Nut

(2) 3/8 Flat Washers

(2) Small Screws

(2) Small Flat Washers



Add a Carriage Bolt to the inside top and bottom track of the Cradle Tube under the pump box. Slide the Cradle Stop Bracket onto the bolts so the bracket hangs off the edge of the cradle tube and will hit the pump stop switch. (13-1) Be sure the bracket does not rub on the cable running up to the Winch Tube. Then tighten with locknuts and washers.

Fasten the pump stop switch to the bottom of the winch tube under the winch box using the small screws and flat washers. The switch should be positioned so the cable sits between the notches on the switch, and bumps the cradle stop bracket. (13-2)



(13-1)



(13-2)

Step #16 Install Leg and Cradle Caps

Parts Needed:

(4) Square Leg Caps

(4) Rectangle Cradle Caps

Use a rubber mallet to push the caps into the tops of the legs. Skip this step if installing a canopy.

Use a rubber mallet to push the caps into the ends of the Cradle Tubes.

Before installing lift into water, insure all parts are tight and correctly installed. Failure to do so may result in serious injury.

The length of the legs should be adjusted when adding the lift to the lake. Pull the pin in the legs to allow the legs to adjust. It should be raised high enough that the cradle is out of the water when raising the boat. The lift should be level when done installing.

Your Local Atlas Dealer is:

Dealer Sticker/Stamp Here



Atlas Boat Lifts

121 W. Stocker St Angola, IN 46703

(260) 410-7965

Atlasboatlifts@bomaggroup.com

www.atlasboatlifts.com

Revision: 02052021EKBM