

Synergy Boatlifts Owner's Manual



Inside:

- Parts Breakdown
- Introduction
- Operation
- Maintenance
- Troubleshooting
- Warranty and Registration
- Lien release Information



Above: Cradle end
& Guide Mount



Synergy Gearbox and
motor (Cover removed)



Above: Aluminum Plate Drive
with "Clamshell Cover"

Due to our constant improvements some parts or components may vary from what is shown in this manual. However they are equal or better than the originals

Specifications

Component	6,000#	8,000#	10,000#	13,500#	16,000#	16,000# Long	20,000#	24,000#
Top Beams	5" DT* Channel	5" DT* Channel	5" DT* Channel	7" DT* Channel	9" DT* Channel	9" DT* Channel	9" DT* Channel	9" DT* Channel
Top Beams Length	12'6"	12'6"	12'6"	12'6"	Custom	15'	15'	15'
Drive Shaft (galv)	1.94" Sch 40	1.94" Sch 80	1.94" Sch 80	1.94" Sch 80	1.94" Sch 80	1.94" Sch 80	1.94" Sch 80	1.94" Sch 80
Winders	2.375"x 15.5"	2.375"x 15.5"	2.375"x 15.5"	2.375"x 15.5"	2.375"x 15.5"	2.375"x 15.5"	2.375"x 21"	3.0"x 18.5"
Cables (stainless)	.316" 1-part	.316" 2-part	.316" 2-part	.316" 2-part	.316" 2-part	.316" 2-part	.316" 3-part	.316" 3-part
Top Bearings	Extruded Polymer	Extruded Polymer	Extruded Polymer	Extruded Polymer	Extruded Polymer	Extruded Polymer	Extruded Polymer	Extruded Polymer
Cradle "I" Beams	6"x 4"x .29"x 11'	6"x 4"x .35"x 11'	8"x 5"x .35"x 12.5'	8"x 5"x .35"x 12.5'	10"x 6"x .41"x 16'	10"x 6"x .41"x 16'	10"x 6"x .50"x 16'	10"x 6"x .50"x 16'
Fasteners & Axles	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Welds	Mig (no structural)	Mig (no structural)	Mig (no structural)	Mig (no structural)	Mig (no structural)	Mig (no structural)	Mig (no structural)	Mig (no structural)
Motors	.75 H.P.	.75 H.P.	.75 H.P.	1 H.P.	1 H.P.	1 H.P.	1 H.P.	1 H.P.
Pilings per Beam	2	2	2	2	2	3**	3**	3
	*Dovetail	** Opt. 2 Piles						

www.synergyboatlifts.com e-mail info@synergyboatlifts.com

Introduction:

Thank you for purchasing a Synergy Boatlift. The word Synergy means a finished product that equals more than it's parts (2+2=5). We feel we have lived up to this challenge, by creating a lift that is so easy to build and install. We have been able to concentrate on using the best components, while maintaining a very competitive price structure.

Operation:

Switches;

Manual switches, There is one switch per motor, and they run the motors independently. If you notice the boat is a bit out of level stop the lift, and run one motor up or down to level. If you feel you have a switching problem contact us or the manufacturer@ www.heftyhoist.com.

Remote Control:

First determine if you have a GEM remote or a Tiger-Shark. You should have been given an owner/user manual by the installer. If one is not available: you can contact us, or for a GEM www.gemremotes.com or for a Tigershark www.tigershark.tele-radio.com. Both companies provide excellent support.

If there is a potential depth Issue It's a good idea for the installer to mark the cable that lifts the corner of the cradle that would bottom out first. The best way is to wrap electrical tape around the cable at the point it exits the bottom of the top beam.

Warning: Since we are not building elevators which are certified to raise or lower people, we must advise you that no one should ride up or down in the boat, or be in the boat or under the boat, when it is on the lift.

Raising the Boat: (The Installer should have reviewed the following steps with you.)

Now it's time to lift the boat. We are assuming the boat has already been lifted at least once by the installer, and the bunks and guide pole assemblies have been properly adjusted. If this has not been done: **DO NOT RAISE THE BOAT, CALL THE INSTALLER OR THE FACTORY**) Position the boat in the proper location fore and aft, as directed by the installer, and start the lift's upward travel. Take notice of the attitude of the boat as the lift engages the hull. It should be fairly level Port to Starboard, if necessary, level it using the switches. As the boat comes up there should not be any particular signs of strain. It should raise relatively quietly, and smoothly. We recommend not lifting the boat any higher than is necessary to get the cradle beams clear of a good strong high tide.

Lowering the Boat: Turn on the lift in the down position. As the boat lowers keep an eye on that marked cable. If it looks like the cradle will bottom out before the boat floats, stop the lift, and wait for higher tide*. When the boat is floating, stop the lift and board. If you are going to be out for more than a couple of hours, or if your slip is subject to severe waves or wakes we advise you to raise the cradle clear of the water. If not, it is OK to leave it in until you return

* If you have a frequent depth issue, keep a current Tide Chart handy. If you anticipate too little water when you want to go boating, unload the boat when the tide is high enough, and tie it up so it will be ready when you want to go out.

Maintenance:

We have tried to make these lifts as maintenance free as possible, but there are a few things that need to be done. The first line of defense is observation. Look and Listen. If anything looks or sounds abnormal, **CALL THE FACTORY**. It may be nothing, but better safe than sorry.

Drive Units:

Single Plate: Remove the White covers. On the front of the drive plate there are 2 grease fittings, behind the large gear there is one fitting. These should be lubed with a good grade Marine Grease twice a year. Don't spare the grease. After greasing, run the lift and grease again. Inspect the drive belt. It should not be cracked or frayed. It should be tight enough so that finger pressure on the belt will not deflect it more than 1/8". If the belt needs to be adjusted or replaced, before you loosen the motor bolts, mark the position of the motor on the plate with a pencil. Loosen the bolts, slide the motor up, and remove the belt. Reposition the motor on the plate slightly lower than the original spot, and secure the bolts. Place the belt around the small pulley, and engage it on the large pulley. Being very careful not to pinch your fingers, manually rotate the large pulley to run the belt on. If there seems to be too much resistance, position the motor slightly higher. If necessary, repeat this process until the desired tension is achieved. Tighten motor bolts

Gear Drive, The Synergy direct gear drive is a maintenance free device. There are ports to add grease if needed. It would be very rare to have a leak, however a visual inspection would indicate this. Occasionally there will be a "sweat" of lube on the surface. This is nothing to worry about. If there is a drip. Contact the factory. Gear Drive lifts should be run up and down at least once per month.

Cable Sheaves (Pulleys) If your lift is equipped with cable sheaves they will need to be lubed. They are equipped with fittings, and should be serviced twice a year. Use a good grade of Marine grease. To allow the grease to flow properly the boat should be off of the lift.

Cables: Boatlift cables should be replaced at least every 5 years, sooner if there are any signs of wear or fraying. **Changing the cable size or material will void any warranty, and will likely cause a failure.**

Other; If the lift is a "Track Elevator" check and replace the Zincs (on small cables attached to the lift).

The cradle on all the lifts should be rinsed off regularly with fresh water.

Troubleshooting: Check in the order they are listed

Problem: One or both motors start improperly or just hum.

Fix: Low Electrical supply **Consult your electrician.**

Problem Neither Motor will run. When you switch the lift on nothing happens.

Fix: Check Circuit Breaker in your electrical panel, or the GFCI at switches (if equipped). If above did not solve the problem call your electrician,

Problem One Motor will not run

Fix: Check the GFCI at each switch (if equipped)

If above did not solve the problem call your electrician,

Problem Motors run, but one or both sides of lift will not raise.

Fix: Belts need to be adjusted or replaced.

Problem Loud noise coming from top beam, usually worse going down.

Fix: Cable Sheaves not properly greased. I know it sounds like the top beam bearings, but that is **HIGHLY UNLIKELY.**

Drive Unit needs to be greased.

Lube lift as needed.

If above did not solve problem **CALL THE FACTORY**

Problem Cable sheaves will not take grease.

Fix: Remove Boat from Lift

Using a large wrench rotate sheave axle bolt 90 degrees.

If the above did not work it may be necessary to remove the grease fitting, and clean out the passage. In extreme cases the axle and sheave have been so clogged with salt they need to be removed, and cleaned or replaced. This operation should be performed by a qualified person. This situation is caused solely by neglect, and is not covered under warranty.

- B. The Company shall not be responsible for incidental or consequential damages, included, but not limited to, damages to property, loss of use, lost profits, or expenses for inconvenience.
- C. Some states do not allow the exclusions or limitation of incidental or consequential damage, so the limitations or exclusions may not apply to you.

6. The Company's Responsibilities:

- A. The Company agrees to provide all necessary parts and materials to correct any warranted defect providing written notice is received by the Company within the applicable warranty period.

7. The Owner's Responsibilities:

- A. It is the responsibility of owner to ensure that each product is fit for its intended purpose and that the conditions it will be used in are suitable.
- B. The product may require periodic maintenance, which is not covered by warranty. While the seller may be equipped to handle your service needs, periodic maintenance may be performed by anyone qualified to do so.
- E. A reasonable time for repairs must be allowed.

8. If you have questions or problems:

- A. Should the Owner encounter a problem, which might be, recovered by this limited warranty, the Owner must contact the Company in writing within the applicable warranty period. The company's e-mail address for receipt of notice is: info@synergyboatlifts.com
- B. The owner should provide the following information in its written notice: The type of product purchased, the purchase date, event dates, dealer names, the problem or question, and any other comments.
- C. This warranty gives you specific rights and you may also have other rights, which vary from state to state.

***Additional Warranty for Solar Powered Lift:**

All of the data above applies to Solar lifts,

Solar Additions:

Batteries:

AGM (dry cell batteries provided by Synergy) 12 Months free replacement

Solar panels, and regulator 2 yr.

Gem Remote Controls 1 yr. Excluded are Lightning, and electrician errors

WARRANTY REGISTRATION

First Name _____ Last Name _____
Street Address _____ City _____ State ____ Zip _____
Work Phone _____ Home Phone _____
Installed By _____ Phone _____
Electrician _____ Phone _____
Lift Model _____ Date installed _____
_____ Date of Purchase _____
Boat: Manufacturer _____ Year _____ Model _____
Engine Type : Outboard ____ Inboard ____ Gas ____ Diesel ____

I have studied the information in this booklet and understand the use of my lift and any precautions to be taken.

Signature _____ Date _____

Please fill out online Registration and Email within 10 days of delivery.
info@synergyboatlifts.com

Lien Release

We highly recommend you contact Synergy for a lien release. This certifies that YOU have paid for the lift, and WE have in turn, been paid for the lift. This document will prevent any possible future liens on your property relating to the lift equipment. This may seem unimportant, but there have been countless horror stories caused by suppliers not being paid. This can also be a valuable document when you sell your property. There is no charge for this, and it would be foolish not to take advantage of it.

**Synergy strives to stay as Green as possible
Please direct inquiries to :info@synergyboatlifts.com
or call 239-462-2908**