



EAST COAST BOAT LIFTS, INC. • P O BOX 473, 510 LORD MOTT ROAD, URBANNA, VA 23175 • 800-718-5737

Dear Boat Lift Customer,

First, we would like to thank you for purchasing an *East Coast* boat lift. We at *East Coast Boat Lifts, Inc.* take pride in handcrafting each lift, and we use only the highest quality materials.

We want to keep our customers safe and hope the following information is valuable in that effort.

Please feel free to call with any questions. Congratulations on your lift and we hope you enjoy our product.

Best Regards,

Larry S Shores, Jr.
President
East Coast Boat Lifts, Inc.

Date of Purchase _____ Marine Contractor _____

Lift Capacity _____ Type of Lift _____

Comments: _____

See enclosed warranty registration card. Please take the time to read your owner's manual and learn more about the care and operation of your *East Coast* boat lift.

We recommend you fill out the top of this page for your own reference and return the enclosed warranty registration card to *East Coast Boat Lifts, Inc.* so that we may better serve you should you need our assistance in the future.

ABOUT OUR LIFTS

1. All of our Lifts at *East Coast Boat Lifts, Inc.* are fabricated from Aluminum or Hot Dipped Galvanized Steel
2. Aluminum Lifts - Our aluminum lifts are constructed out of T6061 structural aluminum and are **BOLTED** together to ensure long life and the ability to replace parts if needed.

Caution must be taken when welding aluminum due to the effects of heat on the strength of welded aluminum alloys. The welds are heat affected areas and therefore are subject to loss of strength and cracking.

3. Galvanized Steel Lifts - The Hot Dipped Galvanizing process, using 850 degree heat, creates a metallurgical bond between zinc and steel. The galvanizing becomes part of the steel it protects.

Zinc sacrifices itself to protect the base metal.

Hot Dipped Galvanized steel has a bending strength three times that of aluminum, resulting in considerable reduction in twist, buckling and sagging under load. Research has shown that Hot Dip Galvanizing does not affect the strength of welds or steel around welds.

STAINLESS STEEL CABLES

East Coast Boat Lifts, Inc. uses stainless steel cables on all lifts. We use 7 x 19 cables which mean 7 strands of 19 wires.

Stainless steel cables are made from individual wires and strands formed, during manufacture, into the final shape they have in the finished cable. This process eliminates internal stresses and results in stronger, more pliable, and easier handling cable. It does not unlay or open when cut and requires no wrapping or seizing before cutting.

It is also resistant to corrosion. Tough construction resists crushing under heavy loads. It is used where flexibility and good resistance to wear is required.

- | | |
|---------|--|
| • 3/16" | Breaking Strength: 3,700 lbs. per cable |
| • 1/4" | Breaking Strength: 6,400 lbs. per cable |
| • 5/16" | Breaking Strength: 9,000 lbs. per cable |
| • 3/8" | Breaking Strength: 12,000 lbs. per cable |

CHECK FOR WEAR OR DAMAGED CABLES BEFORE EACH USE.

MOTORS AND GEAR PLATES

East Coast Boat Lifts, Inc. only uses Aqua Marine (Hefty Hoist) gear systems. They are manufactured for the sole purpose of lifting boats.

Flat Plate Drive: The Open Gear Flat Drive has worked successfully for over 60 years. This system has proven to provide extremely low liability along with the ability to maintain wear points preventing surprise failure. The ability to inspect and lubricate these areas is a tremendous asset and contributes to a longer, safer operation of the drive unit.

E-Drive (e-gear): The E-drive (totally enclosed flat plate system) is driven by a state of the art oil bath gear reducer. Through the two reduction stages, the motor input torque is transmitted to a much greater output torque. The output is a hollow shaft design that is sized to accommodate a 1 ½" drive pipe with spacer sleeve or a standard 2" pipe. The connection to the pipe utilizes the cross bolt identical to the current Flat Plate design. This design provides a maintenance free service without grease lubrication intervals or belt drive adjustments.

The Motors are totally enclosed to keep out insects, birds, salt spray, etc. and can be wired for 120 volts or 240 volts. The switches that come with each Hefty Hoist Unit have stainless steel contacts to ensure longer life. All electrical components are UL approved. The motors can be purchased as painted or stainless steel. The electrical wiring harness is designed specifically for the boatlift industry.

In conjunction with requirements from the U.S. Consumer Product Safety Commission our lifts have Ground Fault Interrupters (GFI's) built into the electric motor units by the motor manufacturer. A warning label is attached to the gear plate, advising electricians to take appropriate steps to ensure proper grounding. Another label is attached to the wiring that connects the motor to the control switch. These reminders are intended to make our customers aware of the importance of proper electrical grounding as an important safety precaution. Because of the wet environment, there is a potential hazard for electrical shock.

Each unit comes with a 1 year warranty on electrical components and a 5 year warranty on the gear system.

STAINLESS STEEL SHEAVES

Our Stainless Steel Sheaves are made from 303 stainless steel for maximum corrosion resistance and durability. These sheaves are ideal for the marine industry.

NYLON SHEAVES

Our sheaves are made of cast nylon. They contain finely divided particles of molybdenum disulfide solid lubricant dispersed throughout. This provides extra surface lubricity without sacrificing the premium properties of the basic material.

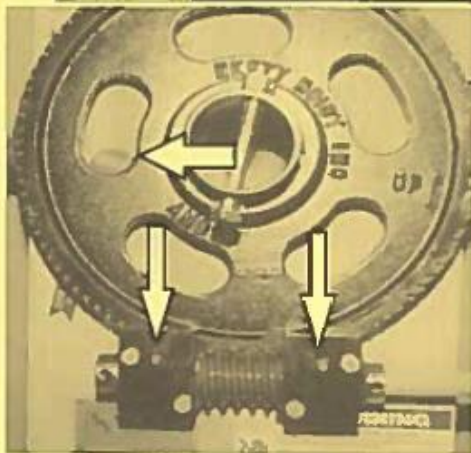
Nylons have long records of outstanding service as a multitude of parts in materials handling. Some properties are: high fatigue resistance, wear resistance, corrosion resistance, low friction, lightweight, high tensile strength, and excellent impact resistance.

PRECAUTIONS BEFORE OPERATING LIFT SYSTEM

- FOR USE BY ADULTS ONLY
- KEEP HANDS AWAY FROM ALL MOVING PARTS
- BOAT LIFTS ARE NOT INTENDED TO LIFT PEOPLE
- DO NOT RIDE IN BOAT WHILE USING LIFT
- NEVER LEAVE RUNNING UNATTENDED
- BE SURE THE LIFT BEAMS STAY LEVEL WHEN RAISING OR LOWERING THE LIFT
- WHEN NOT IN USE TURN OFF YOUR POWER SUPPLY
- DAMAGE OR INUJURY COULD RESULT IF LIFT IS LEFT RUNNING
- NEVER LET CRADLE BEAMS TOUCH THE BOTTOM ALLOWING CABLES TO BECOME SLACK
- IF THE CABLES GO SLACK, BE SURE TO REALIGN AND TIGHTEN THE CABLES BEFORE LIFTING BOAT
- MAKE SURE NO ONE IS UNDER OR STANDING ON THE LIFT DURING OPERATION
- DEATH OR BODILY INJURY COULD RESULT IF YOU IGNORE ANY OF THE ABOVE WARNINGS

CHECK WIRE SIZE TO INSURE FULL POWER

	Minimum Size copper wire For Full Power									
	0 - 50 Feet		50 - 100 Feet		100 - 200 Feet		200 - 300 Feet		300 - 400 Feet	
	115V	230V	115V	230V	115V	230V	115V	230V	115V	230V
Motor HP										
1/2 HP	12	-	8	-	6	-	4	-	4	-
3/4 HP	12	14	8	10	6	10	4	10	3	6
1 HP	10	12	8	10	4	10	3	8	2	6
1-1/2 HP	8	12	6	8	3	8	1	6	1/0	4
R-11/98	Maximum Voltage drop 4% for Full power									



Important Lubrication Information

All three fittings must be well greased at all times. ALSO teeth of main gear must have heavy grease at all times.

-NOTICE- DO NOT USE THIS UNIT AS A LOAD SUPPORTING BEARING

EAST COAST BOAT LIFT OPERATION

- Before lowering your boat lift, inspect your lifts cables, sheaves, belts, etc. for damage or deterioration, also double check that your drain plug is in your boat. Make sure power is available (breaker or disconnect is on).
- Confirm GFI ground fault interrupter is not tripped.
- Do not ride in boat while lowering or raising your lift.
- Activate the 2 manual switches at the same time to lower the boat into the water, stop the lift when the boat begins to float.
- Ensure bunks are clear of the boats hull.
- Carefully float or power your boat off the lift
- After backing your boat off the lift, we recommend that you lift the cradles out of the water. This will help prevent deterioration of the cradle from corrosion and electrolysis, which can cause structural damage.

STEERING & RAISING YOUR BOAT ON THE LIFT

- Lower lift sufficiently so your boat will float over the cradles.
- **Do not let cradles touch the bottom.**
- Slowly position your boat over the cradles ensuring the center of gravity of your boat is in the center of the 2 lifting beams.
- Use your PVC guide posts to assist you in this action.
- It is the sole responsibility of the owner/operator to obtain the boats specific center of gravity from the boats manufacturer.
- Raise lift until the weight of the boat is on the wooden or aluminum runners.
- Inspect the boat to insure proper alignment. Make any necessary adjustments.
- Once the boat is in position, continue to lift the boat for storage.
- **Do not ride in boat while lowering or raising your lift.**
- Remove drain plug to prevent excess weight from water accumulation.
- Turn power off at main breaker after each use.

PARTS NEEDING SPECIAL CARE

CABLE

- Cable has a limited operating life and may need to be periodically replaced
- Inspect cables and swedges on a monthly basis for any signs of wear or damage
- If any signs of wear or damage appear, replace the cables immediately
- Inspect all cables before each use
- Rinse off cables and the rest of the boat lift with fresh water after each use

WOODEN BUNKS

- Bunks will need periodic replacement
- Inspect for wear and rotting

ALUMINUM BUNKS

- Prefabbed Bunks have a vinyl pad attached with aluminum rivets
- Inspect periodically that rivets haven't loosened

DRIVE UNITS

- Keep worm gear, drive gear and all bearings or bushings greased on a monthly basis
- Make sure to grease all grease fittings on gear plate including fitting located between plate and large gear on a regular basis
- Make sure pulley belt is tightened
- Check all set screws on bearings regularly

SHEAVES

- Inspect pulleys on a monthly basis for wear
- Make sure all nuts and bolts are tight

THINGS TO REMEMBER

- ALWAYS TURN OFF THE POWER AT THE MAIN BREAKER TO PREVENT OTHERS FROM USING YOUR LIFT.
- KEEP ALL PEOPLE AWAY FROM THE LIFT WHILE IT IS IN OPERATION.
- DO NOT LET THE CRADLE BEAMS TOUCH THE BOTTOM; THIS WILL RESULT IN THE CABLES BECOMING SLACK AND REWINDING IMPROPERLY.
- INSPECT ALL CABLES AND SHEAVES BEFORE OPERATING.
- VESSEL MUST BE CENTERED PROPORTINATE TO WEIGHT, NOT LENGTH TO ENSURE PROPER OPERATION OF YOUR BOAT LIFT.
- BE SURE TO DISCONNECT DOCK POWER TO BOAT BEFORE OPERATING.
- REMEMBER TO REMOVE DRAIN PLUG AFTER YOUR BOAT IS OUT OF THE WATER.
- REMEMBER TO REPLACE DRAIN PLUG BEFORE YOUR BOAT IS RETURNED TO THE WATER.
- KEEP LIFT GREASED.

***VERTICAL WATERCRAFT LIFT OWNERS* In addition to the above information**

YOU SHOULD UNPLUG THE LIFT AFTER EACH USE TO PREVENT ELECTROLYSIS TO THE TRACK

LIMITED WARRANTY: *East Coast Boat Lifts, Inc.*

Seller (*East Coast Boat Lifts, Inc.*) warrants, to the original retail buyer only, each of its manufactured products that such products are free from defective materials and workmanship for a period of two (2) years from date of purchase by Buyer when purchased from seller or an authorized dealer of *East Coast Boat Lifts, Inc.* There is a three (3) year structural warranty on all PWC lifts. There is a five (5) year structural warranty on all four (4) piling galvanized lifts and a ten (10) year structural warranty on (4) piling aluminum lifts.

This limited warranty shall not be effective, and shall be void, if the products are not installed or used under normal conditions as recommended by seller, when subjected to abuse, neglect, or carelessness, when altered or repaired by anyone not authorized by seller during the term of this limited warranty or if the product has been subjected to lift dead weight in excess of factory stated rating capacities. This limited warranty does not cover, and seller in no way warrants, any cables, hooks, shackles, radio controls or other parts or components manufactured by someone other than seller.

Buyer shall establish its claim by returning the defective product to seller at 510 Lord Mott Road, Urbanna, VA 23175, transportation prepaid, within the period of this limited warranty. The return of a product must include proof of purchase, the make model, and the date on which the product was installed, the name of the party installing the product, and a statement in clear and concise terms setting forth the basis of the warranty claim.

This limited warranty shall not include that cost of labor for the repair, replacement, removal or reinstallation of any product covered herein. Such costs shall be the sole responsibility of the buyer.

At its option, seller may repair or replace the defective product. Repair or replaced products are warranted for the remaining portion of this original limited warranty period at the time the product was purchased by the buyer.

This limited warranty shall not be valid except when delivered by an authorized representative of seller and buyer, shall not be entitled to rely on any other warranty or representation, whether same is oral or written, except as provided in this limited warranty.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES IMPLIED BY LAW, INCLUDING WARRANTIES OF FITNESS OR MERCHANTABILITY FOR A PARTICULAR PURPOSE, IS IN EFFECT ONLY DURING THE DURATION OF THE EXPRESS WARRANTY SET FORTH HEREIN, SELLER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR INSTALLATION OF ITS PRODUCTS.

This warranty gives you specific legal rights and may also have other rights which may vary from state to state.