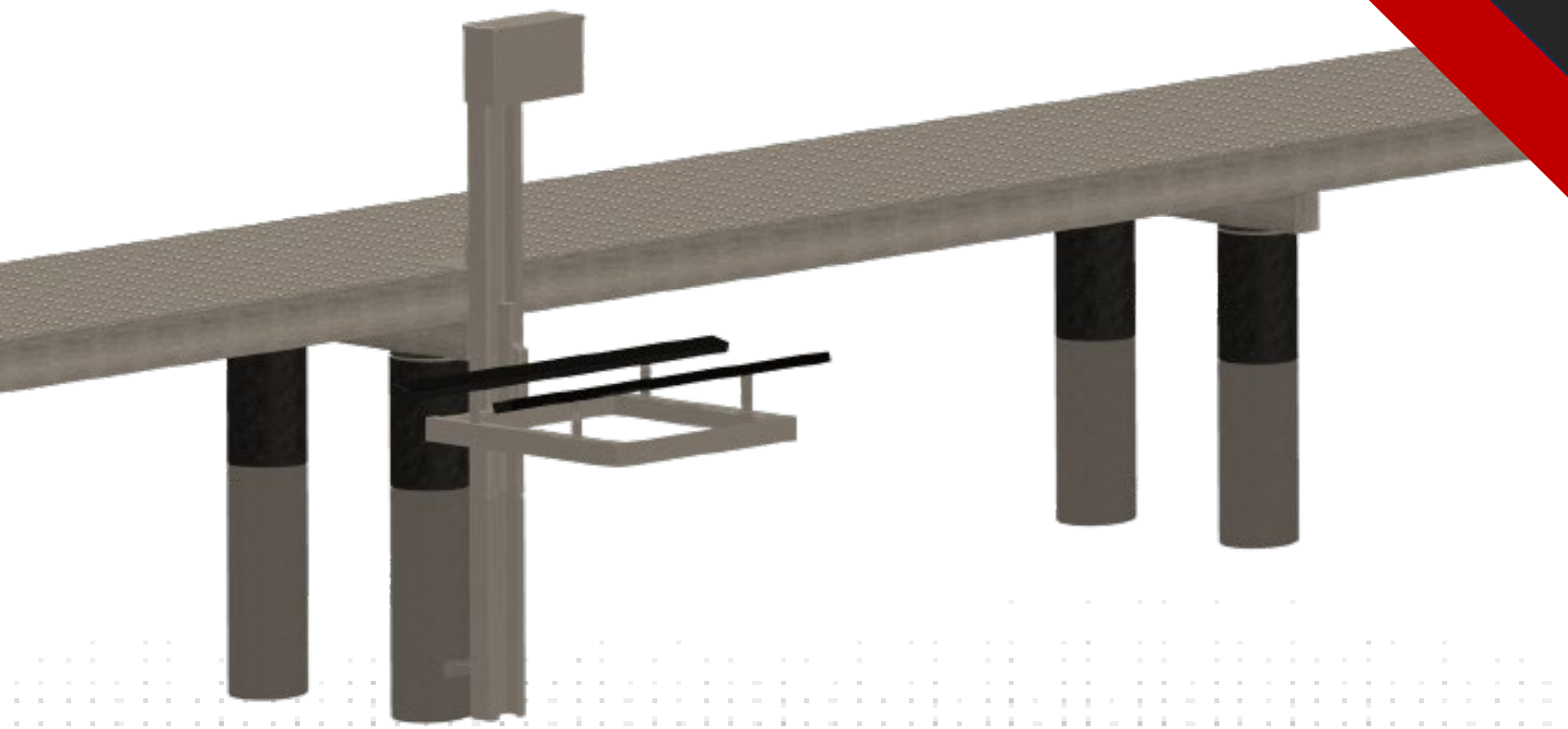
SHORELINE
PILE DRIVING & BOAT LIFTS

USER MANUAL

PERSONAL WATERCRAFT LIFT - 1,760LBS



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SHORELINE PERSONAL WATERCRAFT LIFT (PWC)

Congratulations on your new purchase of the Shoreline Pile Driving & Wharf Construction Personal Watercraft Lift! Your new system comes equipped with several user-friendly features that you should familiarize yourself with before attempting to operate it. However, before we dive into the details, let's discuss the most critical aspect - safety! Please take the time to read through all the safety tips below and remember to use your common sense when operating the boat lift system.

SAFETY FIRST

1. The Owner acknowledges and agrees that the owner shall use the dock and boat lift(s) at their own risk and the owner will be responsible for all acts and omissions of guests. Boatlifts are a heavy-duty piece of equipment. It is important that the Owner that may operate this unit have read and understood the owner's manual. Given the inherent dangers of heavy machinery, your boat lift deserves respect, and good judgment is required in its operation. Before allowing others to operate the unit be certain that they understand the proper operating procedures. Do not allow children to operate the lift.

2. Never operate this lift system while under the influence of alcohol, mind-altering drugs, or medication.

3. This product is for lifting unoccupied boats. Do not ride in your boat or on the lift during operation. Always attend the controls when operating the lift and watch carefully to have others stand clear. Keep hands, feet, and clothing away from all moving parts.

4. Your lift is operated by electricity; therefore, additional care must be taken. It must be wired by a licensed electrician, and it must be installed with an approved ground fault interruption device. If you observe severed or damaged wiring, it must be repaired immediately by an electrician. When properly installed and maintained, electrical devices such as this lift are completely safe. However, any electrical device used in and around a water environment must be treated with great respect to prevent accidental electrocution. All electrical maintenance and service to this lift must be done by a licensed electrician.

5. While operating your lift, routinely look at all cables for fraying, damaged ends, or loose strands. A damaged cable must be replaced immediately. Make sure that all pulleys are turning properly. Routinely look over cables to make sure that they are winding properly. Look for signs of extreme wear and unusual corrosion, as well as, exposed or damaged electrical wires. If you find any of the above, have the problem repaired immediately.

6. Do not work on your boat or lift while the boat is hoisted. When working on your lift, keep your hands, feet, and clothing away from all moving parts. Exercise great care if chains or gearing are exposed. Never work underneath a raised lift, and do not walk or stand on a raised lift. Always disconnect electrical power when working on any part of the lift.

7. Be careful not to exceed the rated capacity of the lift. To determine the total weight of your equipment to be lifted, study the boat manufacturer's literature to determine its weight. Be sure to add enough extra weight to compensate for your added accessories, including water and fuel. Gasoline weighs about 6 lbs. per gallon and water weighs about 8 lbs. per gallon.

8. If you plan to leave your lifted boat unattended for several weeks, it is important that you remove the drain plug in the boat to prevent it from filling with rainwater. Accumulated rain, snow or other water in your boat can rapidly become heavy enough to exceed the capacity of a lift, causing personal injury or damage to the boat and lift.

Now that you have read and comprehended the safety tips mentioned above, let's shift our focus to the fantastic features of your new Shoreline Pile Driving & Wharf Construction PWC Lift System. The next two pages will provide you with all the necessary information to safely operate your new lift system.

ABOUT

Our Personal Watercraft Lifts are built with a simple deck-mounted design that prioritizes strength and reliability. These lifts were created to be user-friendly and require minimal maintenance. Constructed from powder-coated steel, galvanized steel fasteners, and heavy-duty stainless-steel cables, our lifts offer exceptional durability and resistance to corrosion.

LIFT SPECIFICATIONS

• Maximum Lift Capacity	1,760 lbs
• Power Requirements	120V / 12 Amp
• HP Rating (HP)	1.80HP

STEPS FOR OPERATING YOUR NEW PWC LIFT:

Step 1 - Press and hold the down button to lower the cradle until the bunks are about 6 inches underwater, then release the button. The motor will stop automatically when the button is released. Be careful not to let the cable go slack.

Step 2 - Gently float your PWC onto the lift, making sure the weight is centered on the cradle. Avoid driving your PWC onto the lift, as this can cause the back pile support to shift.

Positioning Personal Watercraft

As shown in the photo above, the personal watercraft is positioned on the lift with its center of gravity aligned with the PWC mast.

Step 3 - Once your PWC is securely on the lift, press the up button until the cradle reaches the top of the mast or your desired height above the water, then release the button.

Important: If the cradle begins to rise when you press the down button, release it immediately and refer to Troubleshooting #4.

TROUBLESHOOTING GUIDE

1. **PWC Lift Not Moving:** If the lift is not moving up or down, first check the power supply.

2. **Power On, But No Movement:** If the lift has power but there is no sound from the motor, the limit switch may have been triggered or jammed.

3. **Cradle Not Coming Up All the Way:** If the cradle does not rise immediately, there may be too much slack in the cable. Use a glove to apply tension to the cable and then press the up button. Failing to apply tension can cause the cable to tangle on the spool, potentially damaging it.

4. **Cradle Going Up When Down Button is Pressed:** If the cradle rises when you press the down button, the cable may have reached the end of the mast. The motor may start winding back up in reverse. Release the button and press the up button to reverse the motor and cable direction. The cradle should then begin to lower. Continuing to hold the down button may cause the cradle to keep rising, potentially damaging the limit switch. (This issue only occurs with PWC cables that have been cut to the length of the mast.)

5. **Cradle Sticking or Jumping:** If the cradle is chugging or sticking inside the mast, it could be due to uneven weight distribution. Reposition the PWC on the cradle to correct this.

6. **Lift is Leaning:** If the lift is leaning, the PWC mast support may have shifted.

PWC COMPONENTS

DESCRIPTION	QUANTITY
Mast	1
Cradle with side guide receivers	1
Motor Box	1
Motor Bar	1
Winch (880/1760lb) - Prepped	1
Motor Box Lid	1
Bunk Assembly LH	1
Bunk Assembly RH	1
Cradle Wheels (sheaves)	4
Side Guide Posts (2')	2
Side Guide Sleeves (PVC)	2
Mast Bottom Rod, w/Nuts and Washers	1
Aluminum Pile Tie Back	1

REQUIRED HARDWARE	QUANTITY
DOCK MOUNTING HARDWARE	
• CARRAIGE BOLT, ½" X 12" LG	2
• CARRAIGE BOLT, ½" X 5" LG	2
• NUT ½"	8
• WASHER ½"	4
MOTOR BOX MOUNTING HARDWARE	
• HEX BOLT 3/8-16 X 1.5" LG	2
• NUT 3/8"	2
• WASHER 3/8"	4
MOTOR BOX LID HARDWARE	
• SCREW RND HD 1/4"-20 X 1" LG	2
BUNK HARDWARE	
• HEX BOLT, 1/2"-13 X 1.5" LG	4
• NUT ½"	4
• WASHER ½"	4
PILE TIE BACK SUPPORT	
• HEX BOLT, 1/2"-13 X 3" LG	1
• NUT ½"	1
• WASHER ½"	2
BOTTOM OF MAST	
• HEX BOLT, 1/2"-13 X 14" LG	1
• NUT ½"	1
• WASHER ½"	1

Hardware for mounting the mast to the dock will vary depending on the application. A typical timber dock installation will require (2) ½" X 10" and (2) ½" X 5" carriage bolts with washers and double nuts. This will change depending on the framing and backing used.

INSTALLATION INSTRUCTIONS

1. **Select Installation Location**: Choose the appropriate spot for the lift, ensuring it will be installed over a piling to provide the necessary support for the mast.
2. **Mark Mounting Holes:** Mark the locations for the four holes needed to bolt the mast to the dock. You can use the mast itself or create a template from the mast to make marking easier.
3. **Drill Holes:** Drill 9/16" holes through the decking and framing to accommodate the ½" mounting bolts.
4. **Measure for Pile Tie Back Support:** Using a level and tape measure, determine the required length for the pile tie back support. Place the level on the edge of the pile to ensure it is plumb, then measure the distance back to the mast and record the length.
5. **Prepare Tie Back Support:** Based on the length determined in the previous step, measure and cut the pile tie back support. It's recommended to add 1-2 inches to this length to allow for a slight batter in the mast.
6. **Install Tie Back:** Insert the tie back into the lowest available receiver on the back of the mast. Drill a ½" hole through the brace and secure it with a ½" x 3" bolt.
7. **Install Bottom Rod and Sleeve:** Ensure the bottom rod and sleeve are in place in the bottom holes of the mast.
8. **Position the Mast:** Place the mast in position and install the front two bolts that secure the mast through both the frame and decking. For the rear bolts, add bracing under the decking to distribute the load adequately, typically using 3x8 on most docks. For aluminum docks, weld the backing in place before installation, ensuring all four bolts pass through this bracing.
9. **Install Rear Bolts:** Hold the brace in place under the back two holes of the mast, drill 9/16" holes, and install the rear bolts.
10. **Prepare Cradle for Installation:** Install the bunks on the cradle, determining the direction the machine will be loaded as the bunks are direction-specific. The middle set of holes on each side generally works well, but any holes can be used depending on the specific machine being loaded.
11. **Install Rollers:** Place the rollers in position before lowering the cradle into the mast. It's also recommended to secure the cradle at dock height with a strap or rope during installation.
12. **Install Motor Box:** Once the cradle is in place, bolt the motor box into position.

13. **Insert the Motor Bar:** Slide the motor bar through the straps on the motor and lower the assembly into the cradles within the motor box. Ensure the power and remote cables are lowered through the opening next to the mast during installation.

14. Power the Motor: Once the motor is in place, power it up to lower the hook and attach it to the ring on the cradle. After securing the hook, lift the cradle slightly and remove the previously installed rope or strap.

15. Secure the Wiring: Coil the wiring for the remote and power cord to the desired length and secure them to the motor bar using cable ties. It's suggested to position the remote just above the dock, but the height can be adjusted to your preference.

16. Install the Motor Box Lid: Install the motor box lid and secure it in place using ¼" x 1" screws.

17. Install the Side Guides: Complete the installation by attaching the side guides. Optional foam sleeves may also be added for additional protection.

Installation of your new lift is now complete!

Please note: The electrical requirements for this lift are 120VAC/12A. It's recommended to install a PVC junction box on the backside of the mast, with a weather-tight cover and a GFCI outlet for safety.

Thank you for choosing our PWC lift! We are confident that its simple and convenient design will provide you with years of reliable service and enjoyment. We appreciate your trust in our product and hope it enhances your time on the water. If you have any questions or need support, we're here to help. Enjoy your new lift and the ease it brings to your waterfront experience!

Sincerely,

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