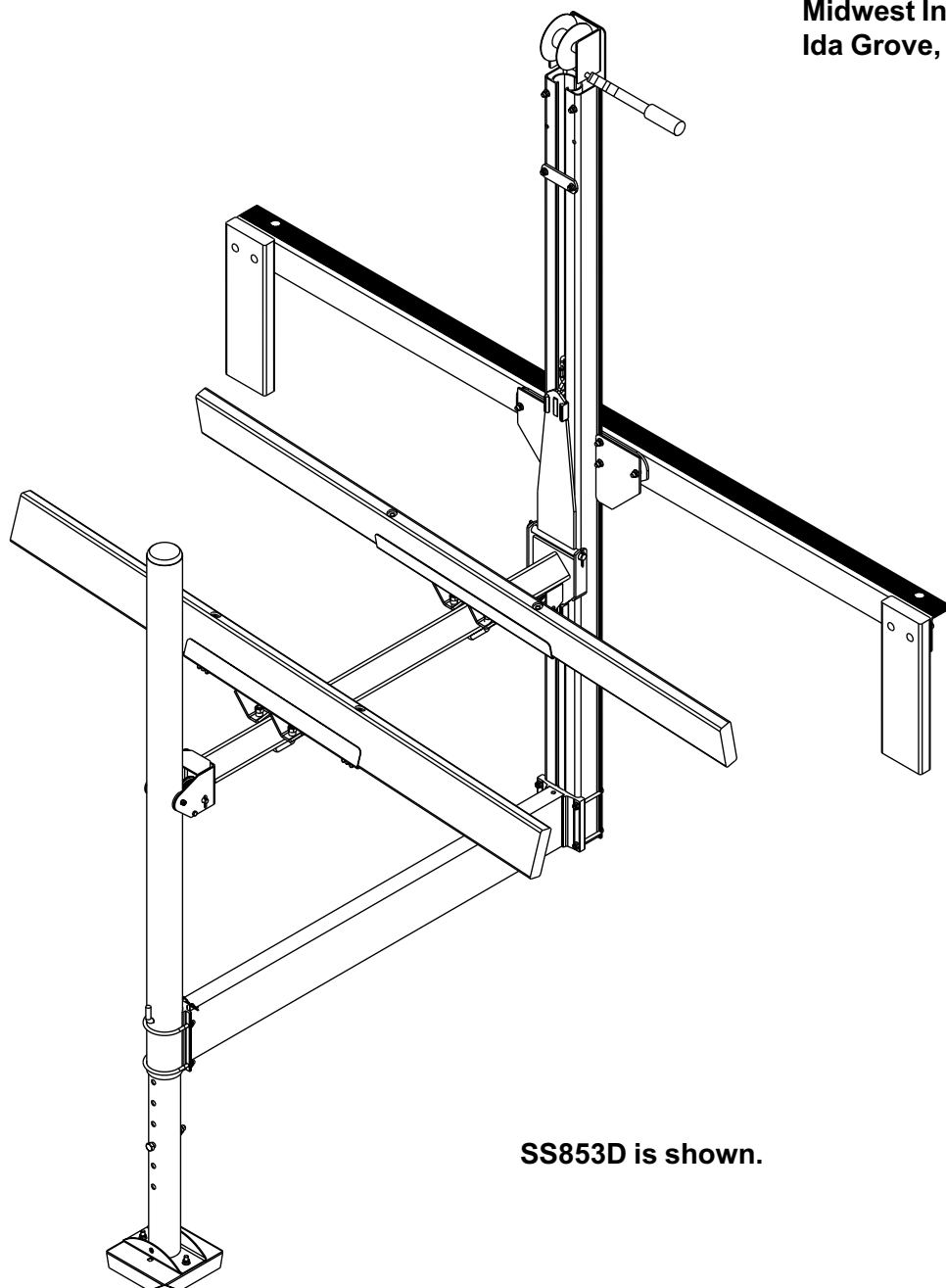


SS853D / SS8531D Dock Mount Hoist

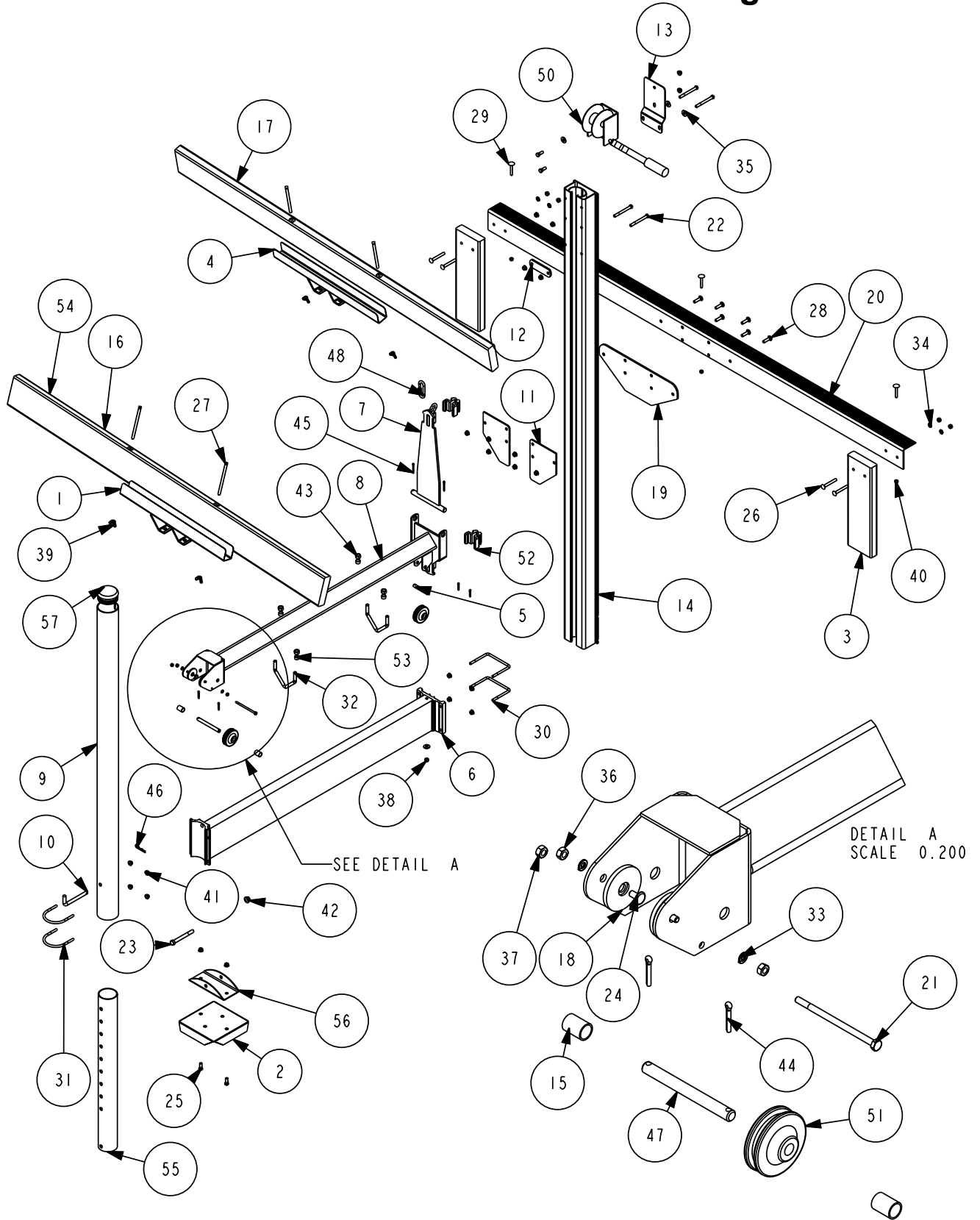
Your **Shore-Station** PWC Boat Hoist is designed to give years of dependable service. Following the instructions in the operator's manual will insure its dependability and more important, **YOUR** safety. Read through this entire operator's manual before attempting to operate your hoist. Our goal is your safety - help us help you by knowing and observing the operating precautions and limitations you will find listed herein. If you do not understand any of these instructions, please ask your dealer for his personal attention to your questions.

Midwest Industries, Inc.
Ida Grove, IA 51445



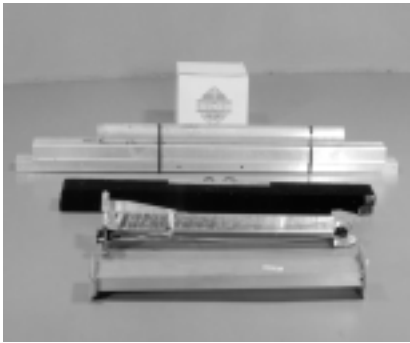
SS853D is shown.

SS853D / SS8531D Parts Drawing

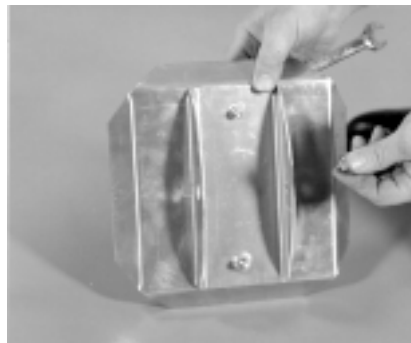


DWG: SS853D_MANUAL | REV: 1.5

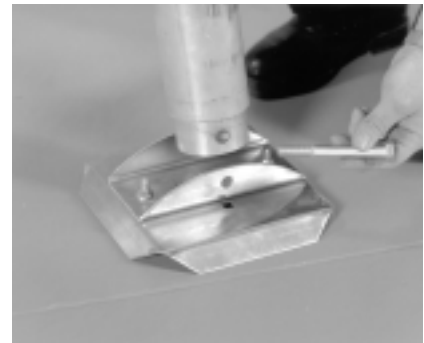
**SS853D is shown in the parts
break-down drawing**



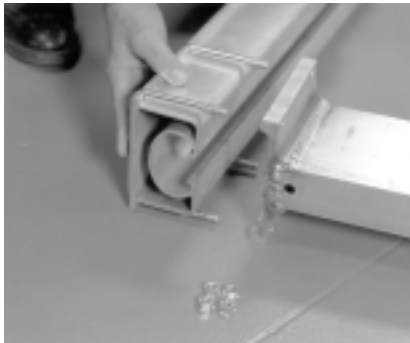
1. Bundles as shown.



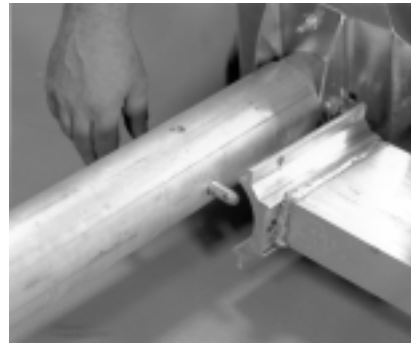
2. Install the aluminum base pad channel clamp to the base pad using two (2) 3/8" X 1" hex bolts and two (2) 3/8" flange lock nuts.



3. Mount the adjustable leg to the base pad channel using a 1/2" X 4-1/2" hex bolt and secure with a 1/2" flange lock nut.



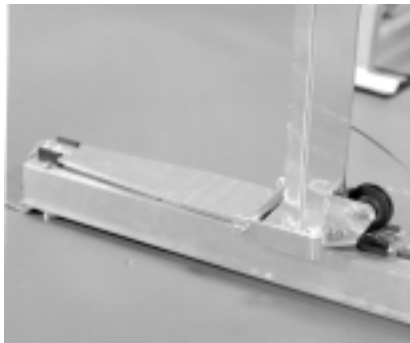
4. Mount the lower frame weldment (Ref.#6) to the winch post extrusion (Ref.#14) using two (2) 3/8" X 5-3/16" X 3-7/8" square u-bolts (Ref.#30) as shown. Secure with 3/8" flange lock nuts.



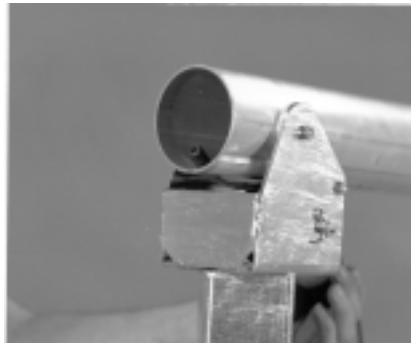
5. Mount the guide post tube (Ref.#9) to the opposite end of the lower frame weldment using a leg adjustment pin (Ref.#10). Secure with a hitch pin clip (Ref.#46).



6. Also mount the guide post tube to the opposite end of the lower frame tube using two (2) 3/8" X 3-7/8" X 3-7/8" SUB's. Secure with 3/8" flange lock nuts.



7. Slide the platform assembly (Ref.#7 & 8) into the winch post extrusion (Ref.#14) as shown.



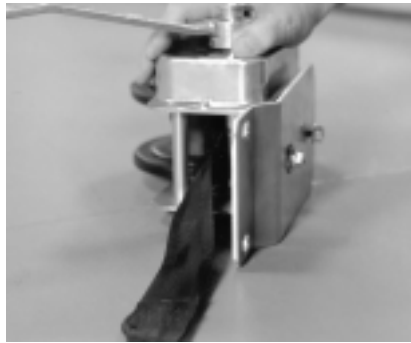
8. Slide the opposite end of the platform assembly over the guide post tube as shown. **Note: Be sure that the cable end is in the notch in the end of the guide post.**



9. Run the threaded end of the cable through the lower frame weldment as shown.



10. Secure the cable end to the under side of the lower frame weldment with a 3/8" flat washer and 3/8" hex nut.



11. Mount the winch mounting plate (Ref.#13) to the winch assembly (Ref.#50) using two (2) 3/8" X 1" hex bolts and two (2) 3/8" flat washers. (One washer goes on the inside oblong hole and the other washer goes on the outside of the winch) Secure with 3/8" flange lock nuts. NOTE: The winch strap must be positioned between the long guide bushing and the winch mounting plate as show.



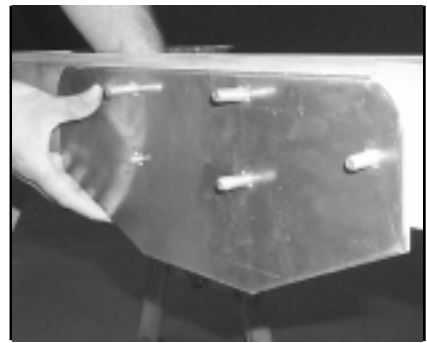
12. Mount the winch assembly on winch mounting plate to the winch post extrusion using two (2) 3/8" X 3-3/4" hex bolts (Ref.#22). Secure with 3/8" flange lock nuts. **NOTE: Be sure that the strap is inserted into the winch post extrusion straight. This cannot be twisted in any way!**



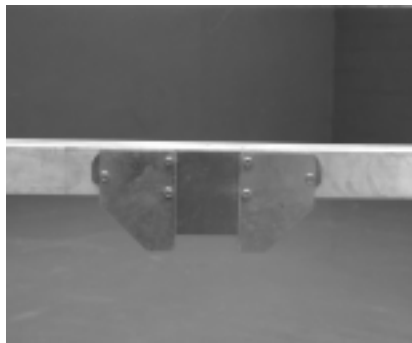
13. Connect the end of the winch strap to the platform weldment assembly as shown. **NOTE: The strap must be free of any twisting.**



14. Mount the stop plate (Ref.#12) to the winch post extrusion using two (2) 3/8" X 3-3/4" hex bolts (Ref.#22). Secure with 3/8" flange lock nuts.



15. Place the winch post mounting plate (Ref.#19) to the dock angle using six (6) 3/8" X 1-1/2" carriage bolts (Ref.#28).



16. Mount the hoist attach plate (Ref.#11) to the winch post mounting plate over the six (6) 3/8" X 1-1/2" carriage bolts as shown. Secure with 3/8" flange lock nuts.



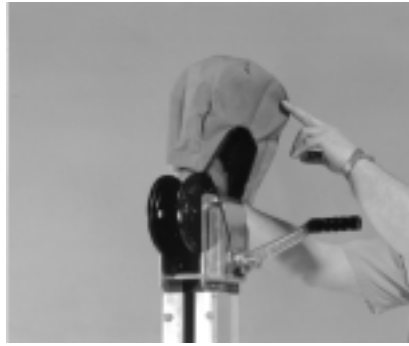
17. Lay the dock mounting angle (Ref.#20) onto the dock. (Do not secure to the dock until step 18 has been done.) Mount the dock bumpers (Ref.#3) and secure with 3/8" medium lock washers (Ref.#34) and 3/8" hex nuts (Ref.#38).



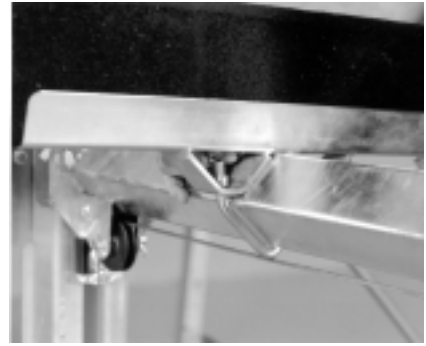
18. Secure the dock mounting angle (Ref.#20) onto the dock with three (3) 5/16" X 2-1/4" carriage bolts (Ref.#29) and three (3) 5/16" hex nuts (Ref.#40).



19. Insert the black plastic cap (Ref.#57) into the guide post tube as shown.



20. Slide the blue cover over the winch assembly as shown. This cover is used as an elements protection for winch assembly.



21. Mount the bunk with brackets onto the platform weldment using two (2) 1/2" v-shaped u-bolts (Ref.#32), two (2) spacers (Ref.#53) and two (2) 1/2" hex lock nuts (Ref.#43) per bunk as shown. **Note: The short end of bunk from galvanized mounting channel goes to the right of the winch handle.** Repeat on other bunks. Bunks should be spaced to fit your watercraft before tightening. Bunks should also be angled toward the center of the platform. **NOTE: To enter the dock hoist from the other end - reverse the bunk assembly.**

Safety Tips

“The best insurance policy is safety”

After the hoist installation is complete, it is important to next check and see that the winch mechanism is functioning properly. This is easily accomplished by raising the empty platform about one-fourth the way up and releasing your grasp on the lift handle. If the winch is operating properly, the clutch brake will automatically hold the platform at any position. Perform this same test in the half, three-fourths and full lift positions. Next, repeat this same procedure with your boat on the hoist. If the lift handle begins to freely spin down from any of these test positions, at no time should you attempt to prevent it from doing so. Such action could result in injury to arms and hands. Instead simply let the platform spin down into the water. Doing so will neither damage your hoist nor your watercraft.

If for some reason your winch mechanism does not function as described call your authorized Shore Station dealer. Do not tamper with the winch mechanism.

SAFETY PRECAUTIONS

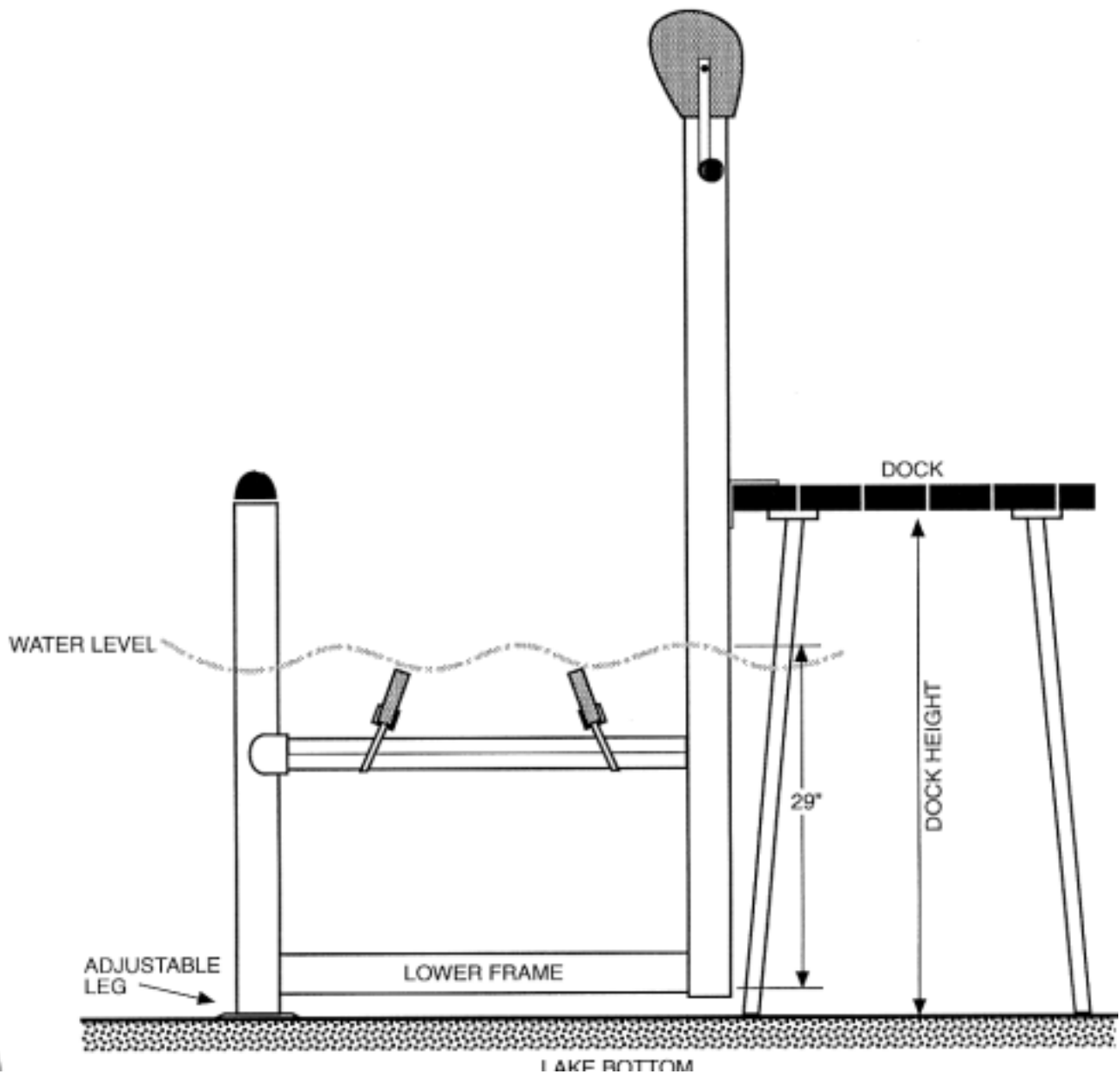
DO NOT OPERATE THIS HOIST WITHOUT FIRST STUDYING THIS OWNER’S MANUAL

1. See to it that you, your family, and anyone else who uses the hoist looks upon the unit not as a toy, but a piece of heavy equipment that deserves your respect and good judgment.
2. Before allowing anyone to operate the unit, be sure they fully understand the proper operating procedure.
3. Do not exceed maximum capacity unit, overloading may cause mechanical failure and serious personal injury.
4. All persons should stand clear and should not be allowed to board your watercraft when it is being raised or lowered.
5. If you choose to remove the winch cover and inspect or work on the winch, be sure the platform is completely lowered.
6. It is a good safety policy to restrict children, as well as adults, from playing on or near the hoist.
7. Service winch annually. **IMPORTANT:** Winch maintenance schedule must be followed to avoid possible failure and injury. See winch owner’s manual for instructions.
8. Check cable for wear or fraying and also stress on cable attaching ends. If this occurs, replace cable immediately.
9. Be sure the hoist is installed level, severe out of level installation may cause hoist hand up and serious personal injury.
10. Do not work on you watercraft or hoist with watercraft on the hoist.
11. Check all sheaves, make sure they are turning and operating properly.
12. Check fasteners on cable ends to be positive they are threaded properly (see setting up instructions).
13. If the winch handle begins to freely spin down for any reason, at no time should you attempt to prevent it from doing so. Such action could result in injury to arms and hands. Instead, simply let the platform spin down into the water. Doing so will neither damage your watercraft or hoist.
14. Never pick up on platform of hoist while trying to move, position, or transport hoist. Doing so may cause serious personal injury.
15. Never stand or walk on hoist platform while in any raised position. Doing so may cause serious personal injury.

SAFETY MAINTENANCE

It is recommended that your Shore Station hoist be thoroughly inspected at least once each season:

1. Tighten all bolts.
2. Check pulleys and make sure they are all turning freely.
3. Inspect all cables for fraying, wearing or deteriorating. If any signs appear, replace cables.
4. Check frame thoroughly.
5. Check winch as per manufacturer’s specifications.



After final assembly, you are now ready for installation. Once the location is determined you need to find the water depth and the dock height.

Using a pole or a 2X4, insert it into the water and locate solid bottom to water level. Mark both the water level and the top of the on the 2X4.

Remove the pole and measure the distance from solid bottom to water level.

You must allow 17" for the lower cross member and bunk height, then add floatation allowance plus the water distance to the top of the dock figure, dock mount tube should be set at this measurement. Subtract this measurement from the lake bottom to the top of the dock measurement to get the leg extension measurement. **NOTE:** Allowances may have to be made for uneven lake bottom in the leg setting measurement.

The distance of dock to water line plus 29" equals position to set the top of the dock mount tube.