



1200 lb Vertical PWC Boat Lift Assembly Instruction Manual Safety & Warranty Information for Model 10PWC, 2013 Series



Proudly Made in Michigan
by
NuCraft Metal Products
402 Southline Rd.
Roscommon, MI 48653

Rev 04/14
A-MH-10PWC-13manual

Manuals and drawings also available online at www.craftlander.com



IMPORTANT: ONLY PERSONS THAT HAVE READ THE MANUAL AND SAFETY STICKERS AND UNDERSTAND THE DANGERS OF OPERATION SHOULD OPERATE.

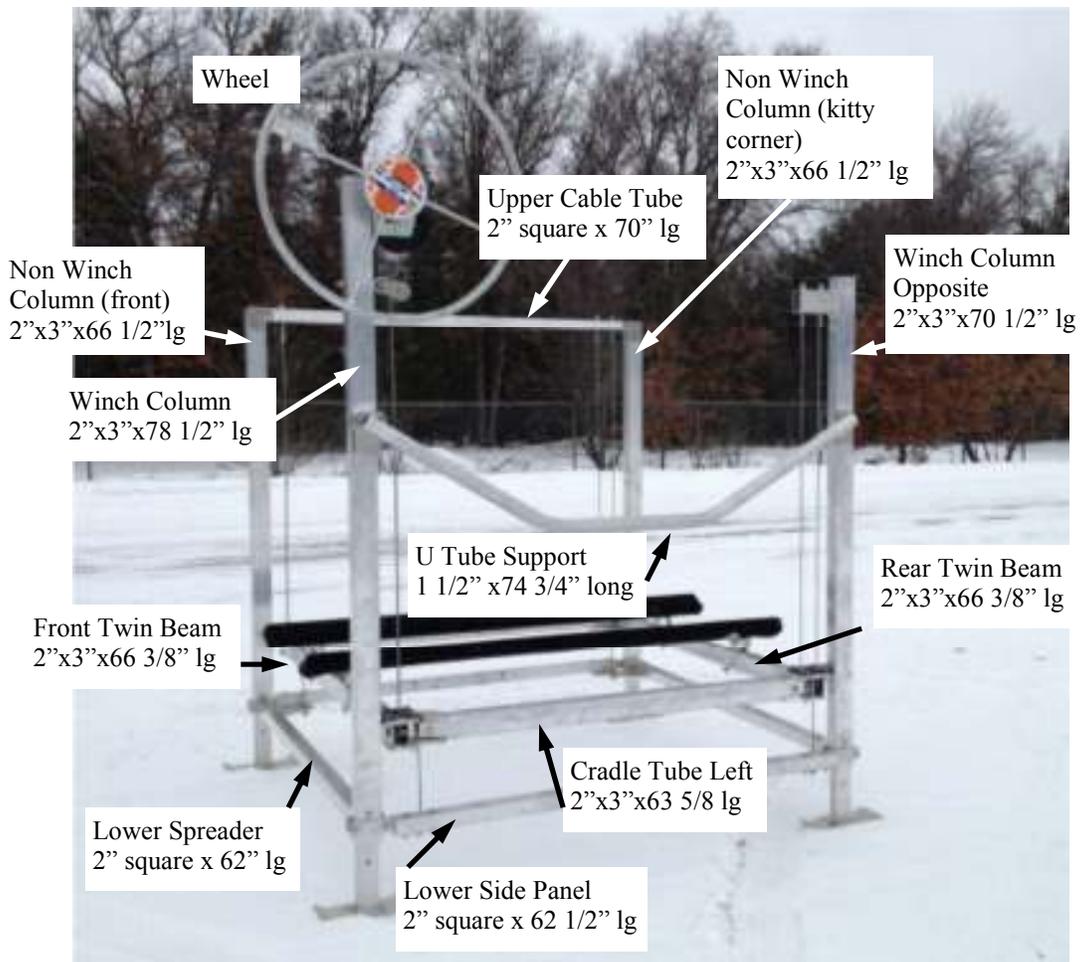
This manual has been created to help you in the assembly process. Every effort has been made to simplify the process. Should you have any questions please contact your dealer for help. If needed the dealer will contact the factory and have one of our experts call and assist you.

Please read this manual completely before beginning. This will help you get an understanding of how best to complete the job.

This hoist can be put together by yourself, however we recommend you enlist the help of a friend.

If you have purchased an optional power assist ask your dealer for installation instructions. Improper installation may result in hoist failure and possible personal injury.

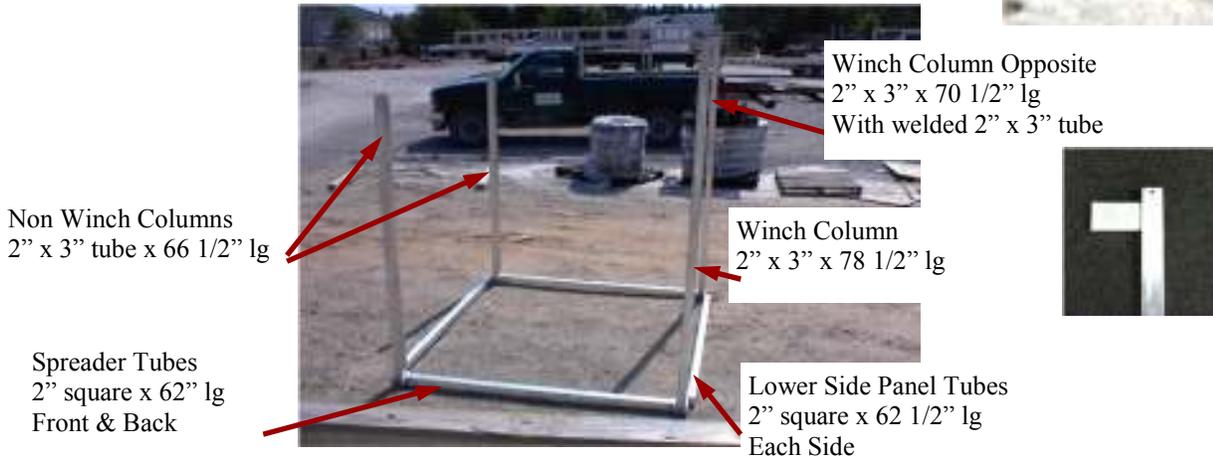
Required tools for assembly of this hoist would be 3/4", 9/16", 1/2", 7/16" wrenches and a flat head screwdriver. Read over this manual and gather any extra tools you may need. If you happen to have a few 4x4's they will come in handy for assembling the carriage of the hoist.



(1) Lay out all parts to make sure you have everything needed to assemble your hoist. Refer to the assembly drawing in the bolt bag for parts list. Once you have done this, find a level spot to put the hoist together. Insert the leg tube in the end of the each column that has the "T" and "L" clamps attached, secure with a 3/8" x 2-1/2" bolt & whiz nut using the bottom hole on the column (see below). Repeat for each column.



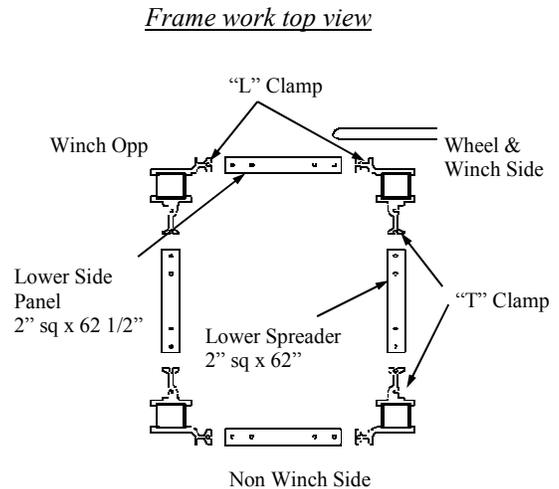
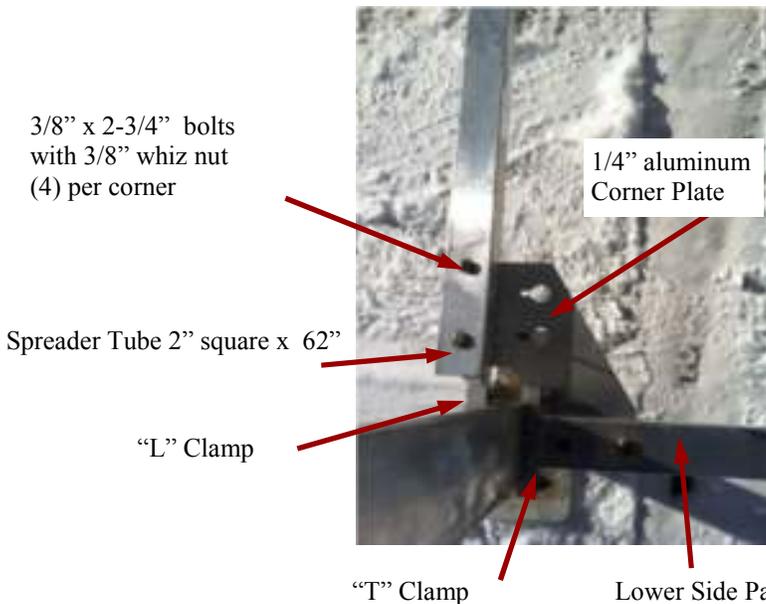
Note: The "L" & "T" Clamps are pre-installed on the columns at the factory.



(2) Begin assembling your hoist by locating the columns, side panel tubes and spreader tubes. Start with one of the winch columns, stand it upright and slide the side panel tube over the "L" clamp. The smaller of the two clamps. Put (2) 3/8" x 2-3/4" bolts in the holes. See lower frame top view below.

(3) Now slide one of spreaders over the "T" clamp. Put (2) 3/8" x 2-3/4" bolts thru the tube Repeat this procedure for the other (3) corners. Note: Make sure your hoist has the winch column and winch column opposite on the same side and (2) non winch columns on the opposite side. See above drawing for part lengths. Install the corner plates on the bottom of the tube as shown below, install (2) 3/8" whiz nuts to the bolts coming through the Spreader and Side Panel Tubes and finger tighten. Do not tighten all the way as some adjustments will be required when 'squaring' the hoist in the next step.

When finished each corner should look like the picture shown here.



(4) To 'square', or tram the hoist you will need to measure the distance between each Column from inside corner to inside corner as shown below. You may need some help to hold the tape measure. If the two measurements are not equal you can push or pull on the Columns to adjust them accordingly. Once they measure equally go ahead and tighten the bolts and nuts that connect the aluminum corner plates that were assembled in the previous step. See picture on right.



Picture shown of V4500 unit. Assembly of the 10PWC is similar.

(5) Attach the U-Tube support tube to the winch column and the winch column opposite by inserting (2) 3/8" x 1" flat head bolt with (2) 3/8" whiz nut into each welded plate. One plate will be welded on the winch column and winch column opposite and the other plate will be welded on both ends of the U-Tube support. See pictures below.



Welded connection plate on columns and U-tube



U-Tube Support

Picture shown is of an allen head bolt connection. Please note this will be a flat head connection. Shown here.



Upper cable tube bracket

3/8" x 2-3/4" bolts

(6) Locate the upper cable tube which is 2" square x 70" long, (4) upper cable tube brackets, (6) 3/8" x 2-3/4" bolts and (6) 3/8" whiz nuts. Hold the tube up at the top of the non winch columns. Get (2) of the upper cable tube brackets and a 3/8" x 2 3/4" bolt, placing one bracket on either side of the tube and align bolts holes. Push the bolt thru to the other side, facing out. Place the 3/8" whiz nut on loosely, do not tighten. Repeat this for the other end. See picture on right.



(7) Lay (4) 4 x 4's or any 4 equal size boards diagonally across each corner. This will make it easier to put the lift carriage together in the next step.



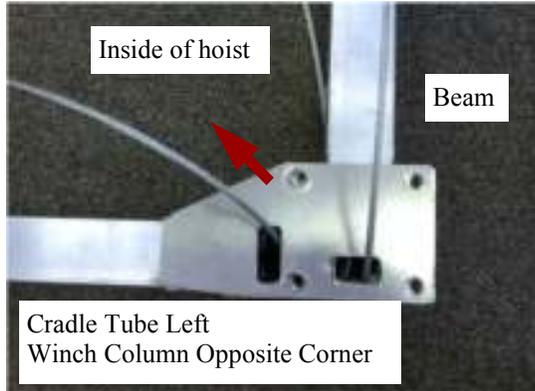
Welded plate shown on top of Beam



View of rear Beam with (2) cable/sheaves pre-installed. Front Beam will have only one.

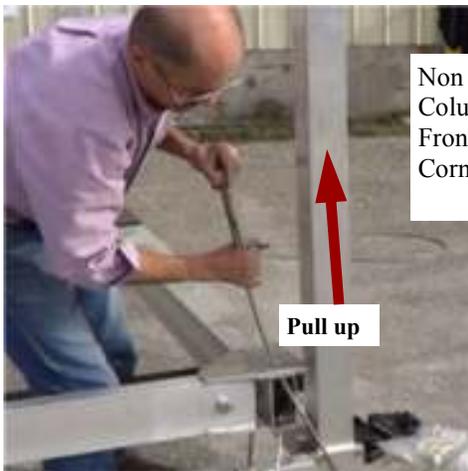
(8) Locate the front and rear Beams. Each Beam will have a welded plate on the top and bottom of it and will be 2" x 3" x 66 3/8" long. The front Beam has been pre-assembled with (1) cable/sheave in it. One end of the cable will have a long threaded stud and the other will not have a fitting. This is the cable used to attach to the winch. The rear Beam will have (2) cables/sheaves coming out of it. Each cable will have a long threaded stud on one end and a 3/4" button stop on the other. See picture above center and above right. Lay your beams across the 4 x 4's.

(9) The Cradle Tube Left and Right are 2"x3"x 63 5/8" lg and will have one cable coming out of them. Each end will have a welded connection plate on the top and bottom. The larger plate will be the top of the tube. Align the holes in Cradle Tube brackets with the holes in the beam brackets. The larger plate should be on the top and the angle portion of the connection plate should be facing the inside of the hoist. Do this on all four corners.



(10) Starting with the Non-Winch front corner you will need to pull the cable coming from the Beam through the corresponding hole in the Right Cradle Tube. The cable with a long threaded end coming out of the front Beam will be pulled through to attach to the Upper Cable Tube. The cable coming out of the Cradle Tube Right with the 3/4" button end will go down to the corner plate, fastened to the lower frame.

(11) Continue on to the Winch corner. The Cable coming out of the end of the front Beam will not have a threaded end. This end will be connected to the Winch Box in a later step. The cable coming out of the Left Cradle Tube will have a 3/4" button end and will go down to be attached to the corner plate on the lower frame.



(12) Move on to the corner opposite of the Winch corner. There will be two cables coming out the rear Beam. The one closest to the column with the long threaded end will be pulled through to be attached to the welded tube at the top of the column. The other one with the 3/4" button end will go down through the hole of the welded bracket on the Left Cradle Tube to be attached to the lower frame. The cable with the long threaded end coming out of the Left Cradle Tube will go up through the hole in the top of the bracket to also be attached to the welded bracket at the top of the column.

(13) Continue on to the Non-Winch rear corner. This will be done the same way as step #12.

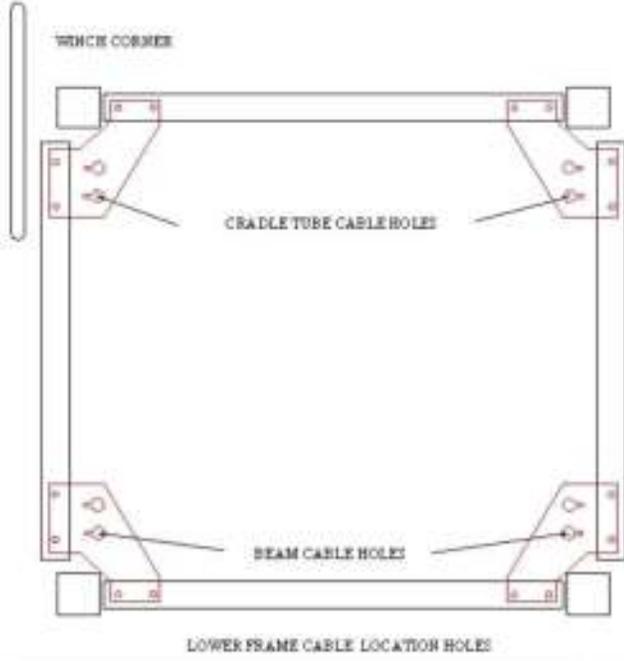


View of cable connection to welded bracket

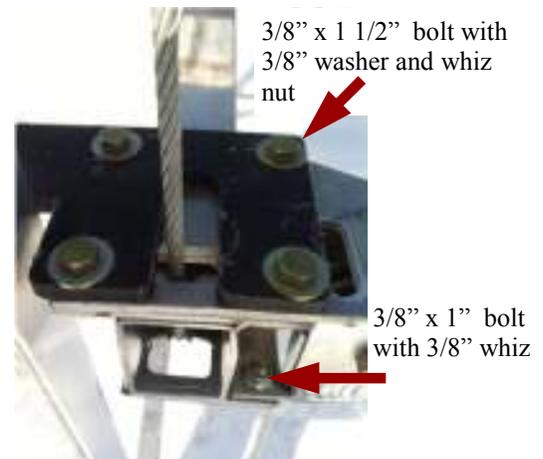


Please Note: Some pictures on this page are of the vertical 4500 lb lift. Size and appearance of tubes are somewhat different but cable and corner connections are similar.

(14) On every corner there will be a cable with a 3/4" button end going down. Pull the cable down through the hole in the aluminum corner plate. In the rear of the lift the hole will be closest to the column. In the front of the lift the hole you will use will be the one farthest away from the column. See diagram below for positions. Make sure the cables are going straight down. Slide the cable end fitting through the keyhole and over to the smallest part of the slot and insert a 1/2" x 1 1/2" bolt with a 1/2" washer through the largest part of the hole. Secure with a 1/2" nut. Do this on all four corners.



(15) Next, attach the black polypro guide plates in each corner. Insert (4) 3/8" x 1 1/2" bolt with washer and 3/8" whiz nut into each hole in the guide plate. You will also need to insert (2) 3/8" x 1" bolt in the bottom holes on the inside of the beam and secure with a 3/8" whiz nut. The washer is not required for these bolts. Do this on all four corners. Picture below.



(16) Starting in the Non Winch Column rear corner, pull the two cables with the long threaded end out far enough to reach the holes in the Upper Cable Support Tube. One will be coming out of the beam and the other will be coming out of the cradle tube right. Attach them on the top with (2) 1/2" washers and (2) 1/2" nylon lock nuts. Do not tighten down at this point. Picture below.



(18) On the Non Winch Column front corner the cable with the long threaded stud will go through the hole in the Upper Cable Support Tube that is closest to the column. Attach with a 1/2" washer and 1/2" nylon lock nut. No picture shown.

(17) Continue on to the Winch Column Opposite and attach the two cables with the long threaded stud to the welded tube at the top of the column with (2) 1/2" washers and (2) 1/2" nylon lock nuts. Picture to right.



Winch Column Opposite

(19) Using a 3/4" ratchet and a 1/2" wrench go around to each corner and tighten the nylon lock nuts. Leave a little slack but not too much. You should be able to grab them and move them back and forth freely. Having the cables too tight will inhibit the hoist from going down freely.

(20) Locate the 1/2" Eye Pulley and a 1/2" washer and insert into the third hole down on the Winch Column. Use another 1/2" washer and a 1/2" nut and tighten. Be sure the pulley assembly is facing the inside of the hoist.



(21) Get the DL winch (see picture below), (2) 3/8" x 4" hex bolts, (2) 3/8" whiz nuts and (1) 3/8" washer. Hold the winch as shown in the picture. Place the winch over top of the pulley and put one of the 4" bolts with a washer on it thru the slot in the winch body and the top hole on the winch column. Finger tighten with a 3/8" whiz nut. Put the other 4" bolt thru the bottom center hole in the winch and thru the column. Put the other whiz nut on and tighten both being careful not to bend the column.



Winch mounts to the column as shown.



DL Winch

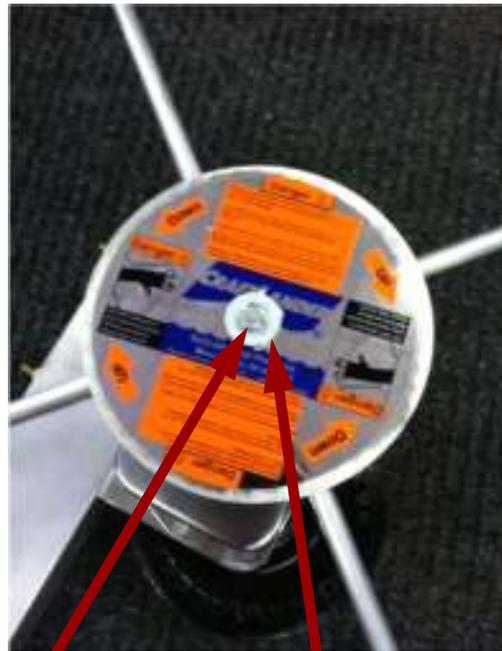


Cable Guide

NOTE:
Do not use the spring that comes in the box when you put the wheel on. Throw the spring away!



(22) Thread the 30" wheel on the winch shaft as far as it will go making sure it's tight against the winch, when the wheel makes contact on winch brake pad you will hear a clicking noise when wheel turns clockwise.



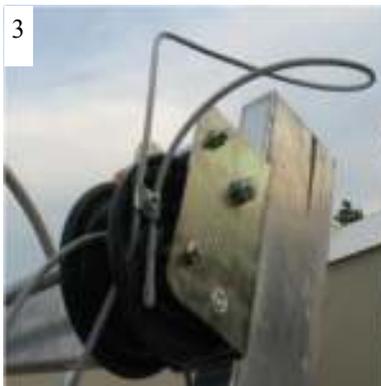
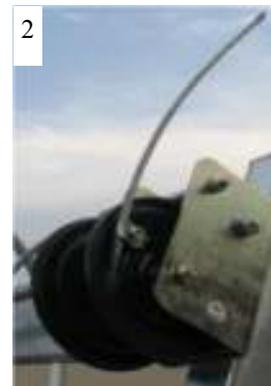
(22) Put the 5/16" hex bolt and flat washer that came in winch box into the winch shaft and tighten. When done there will be a small gap between the washer and the wheel. This allows the wheel to back off the brake in the winch so the hoist will go down. Note: Down is counter clockwise.

Before attaching cable to winch stretch it out to check for any kinks and to make sure it's not tangled

(23) Insert the winch cable coming from the front beam up through the cable pulley guide and into the bottom of the winch box. Pull all the slack out. Refer to the picture to the below.



(24/1-5) Install the cable clamp assembly using the square hole on the side of the winch. Only thread nut on just far enough to prevent clamp from coming off. Put free end of cable thru hole in side of winch below the clamp, push cable thru one side of the clamp, make a large loop then push cable back thru the other side of the clamp. Carefully pull the loop out as shown in step 4. Leave the end about 1" beyond the clamp then tighten securely.

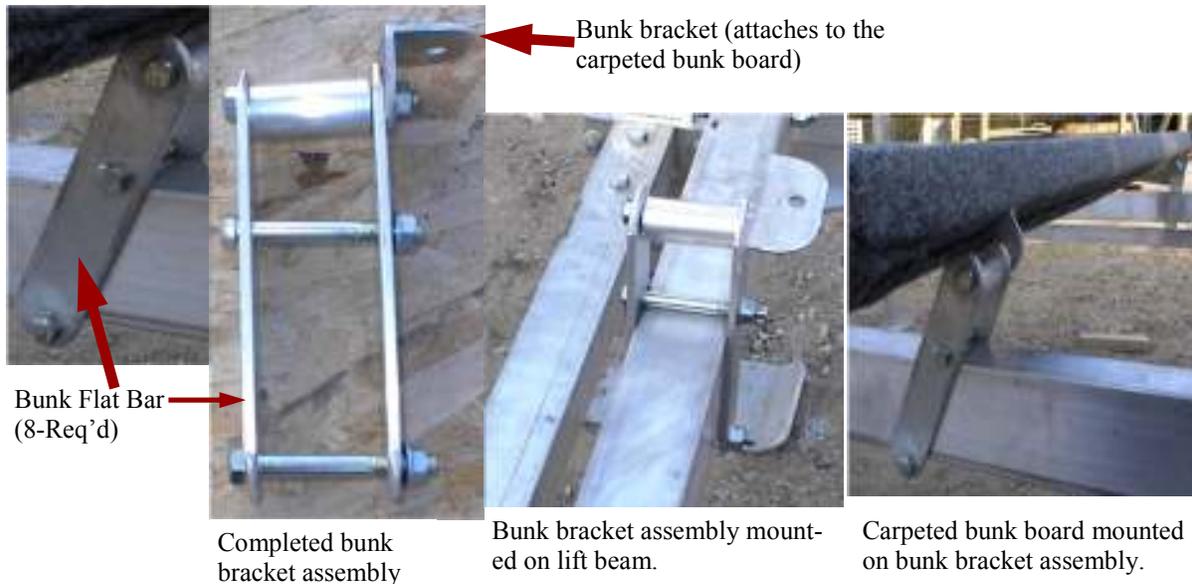


Please note: These pictures were taken from a different hoist that uses the same winch. Even though it looks different the procedure and the results are the same.

Turn the winch wheel as if you were raising the hoist. Make sure the cable winds up on the drum evenly. Do this until the slack is out of the cable. If you have any questions concerning this please contact your dealer.

The lift is intended for the hand wheel and winch photos. If a electric winch is added to the lift the manual for it needs to read and understood by the user. Alteration to the wheel or winch could void the warranty and be a risk. A limit switch is recommended if available.

(25) The last step in the assembly process is installing the carpeted bunks. Find the bunk bolt package (this is the one with the aluminum flat bars in it, refer to picture below. Start by inserting a 3/8" x 3" hex bolt in the center hole on the flat bar then insert the bolt thru the center hole on another flat bar. Put a 3/8" whiz nut on finger tight. The top bolt gets a 1/2" x 2" alum tube and a bunk bracket as well. Place the assembly on the lift beam with the bunk bracket facing up and towards inside of the hoist. Put a 3/8" x 3" bolt and whiz nut thru the bottom hole on finger tighten. Install the remaining bunk flat bar assemblies in the same manner. Now place the carpets on the bunk brackets placing a 3/8" whiz nut on tightening securely. Once you get your hoist in the water with your personal watercraft on, you can adjust the bunks to the hull then tighten all the bolts.



It would be a good idea to start at the winch and check all bolts and nuts for tightness. If need be, repeat the process in order to be absolutely sure all bolts are tight. After you use your hoist a few times recheck all bolts for tightness.

Congratulations! You have succeeded in assembling one of the finest and more unique hoists on the market. By doing a few simple maintenance steps your Craftlander hoist will give you years of trouble free service.

Do's and Don'ts:

Do:

- Check cables every time you use the hoist for fraying and/or damage.
- Make sure the hoist operates properly up and down. Note: Clockwise you will hear a clicking sound.
- Clean dirt off pulleys and cables in the fall.
- Make sure hoist is level when you put it in the water.

Don't:

- Climb under hoist at anytime.
- Use your hoist and PWC as a patio.
- Raise or lower hoist with anyone on the PWC.
- Raise hoist rotating wheel counter clockwise.

Do not exceed the rated capacity of the hoist. Serious injury and/or death may result.

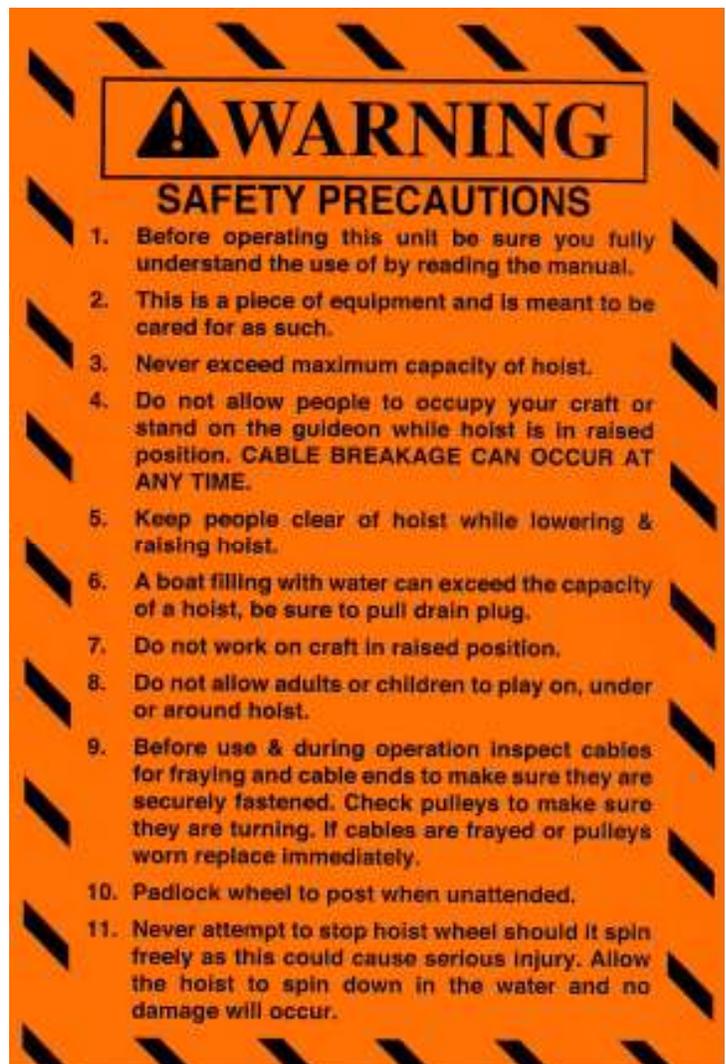


After the hoist installation is complete, it is important to check to see that the winch mechanism is functioning properly. You can do this by raising the empty platform up about a 1/3 of the way and releasing your grasp on the lift wheel. If the winch is operating properly, the clutch brake will automatically hold the platform (sometimes described as carriage). Repeat at higher locations. Next repeat this with your boat on the hoist. If the lift wheel begins to spin down freely 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 boat or hoist.

If for some reason your winch mechanism does not function as described call you local Craftlander dealer. Do not tamper with winch mechanism.

It is recommended that your Craftlander be thoroughly inspected at least once a season. Tighten all bolts. Check all pulleys and make sure they are turning freely. Inspect all cables for fraying, wearing or deteriorating. If any signs appear, replace cables. Check frame thoroughly. Grease the winch drive chain. Turn lift wheel off shaft. Remove washer and grease threads on winch—**do not grease clutch plate on winch**. Check for rust on clutch plate. Sand and clean off if needed. Install wheel back on lift with retaining bolt and washer and follow the raising instructions in this manual.

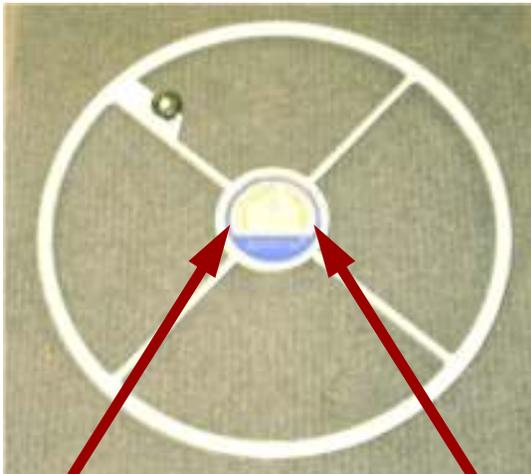
This is a typical safety precaution sticker that is applied to our hoists. If your sticker is not legible be sure to contact your Craftlander dealer for a new one.



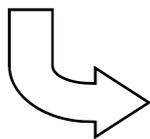
Safety Precautions!!!

In order to prevent possible injury to both the operator and equipment it is extremely important that the lift wheel is always turned clockwise when raising the platform. Close attention should be paid to the decal on wheel raise and lower arrows. (*clockwise raises, counter clockwise lowers*) If cable is unwound counter clockwise and continued to turn counter clockwise the hoist will begin to raise which will cause winch damage. The **brake will not work** which could cause injury. Under no circumstances should one raise the platform by turning the wheel counter clockwise. Never raise counter clockwise, as this will cause uncontrollable spin.

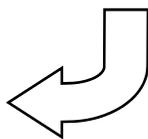
Also the warning sticker which appears below



Lower (counter clockwise) Raise (clockwise)



Lower



Raise

Winch

These stickers are similar to ones on the hoist wheel and column. Wheel brake works when cranking in the up direction only.

Stickers say:

Failure to follow below instructions will result in **uncontrolled spin down** and possible **personal injury** and or hoist damage.

Lift wheel must be turned clockwise for lifting. Do not raise hoist by turning wheel counter clockwise/down direction.

Possible personal injury and or hoist damage may result.

DO NOT work or play around or under hoist with boat on.

Do NOT leave hoist unattended without first securing wheel.

DO NOT reach through hoist wheel. Serious personal injury may result.

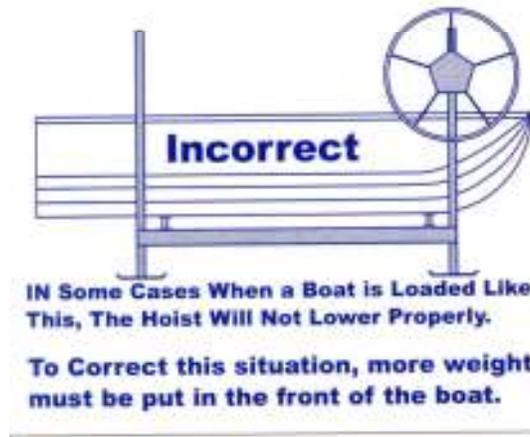
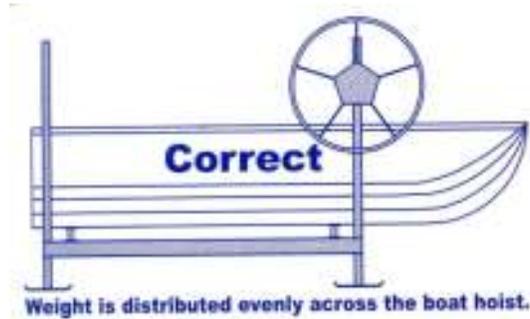
DO NOT attempt to stop spinning wheel. Serious injury may result.



Wheel sticker



Hoist Loading Sticker



This is a typical sticker put on our vertical lifts. If a boat is loaded on the hoist with too much weight on one end it may cause the lift to improperly when going down. The lift may bind and only one end will go down. If this situation happens, more weight needs to be placed on the light end of hoist to relieve pressure on the cables leveling it in that direction. (Do not put people in the boat, weight injury could result). When the hoist is down remove the weight and reload load the hoist with better weight distribution.





Since 1979

Craftlander Boat Hoists

Your Craftlander Hoist Limited Warranties

During the terms of the Limited Warranties on your aluminum Craftlander hoist, NuCraft Metal Products, Inc. (hereafter referred to as "NuCraft") covers the cost of all parts needed to repair or replace any NuCraft supplied item that proves defective in material, workmanship or factory preparation. These replacement parts will be supplied by your dealer at no charge using new or remanufactured parts.

Your Legal Rights Under NuCraft's Limited Warranties

All of the NuCraft Limited Warranties stated in this booklet are the only express written warranties made by NuCraft applicable to the aluminum Craftlander hoist. These Limited Warranties give you specific legal rights and you may also have other rights which vary from state to state. You may have some implied warranties, depending on the state in which your aluminum hoist is registered.

For example, you may have:

1. An "implied warranty of fitness for a particular purpose;" (that your hoist is reasonably fit for the general purpose for which it was sold);
2. An "implied warranty of fitness for a particular purpose;" (that your hoist is suitable for your special purposes; if your special purposes were specifically disclosed to NuCraft itself-not merely to the distributor or dealer-prior to purchase.)

These implied warranties are limited, to the extent allowed by law, to the time period covered by the written warranties set forth in this publication. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

SUBSEQUENT BUYER/OWNER

This Warranty is extended only to the first buyer/owner of the hoist. This is defined as the first legal owner of a NuCraft aluminum Craftlander other than an authorized Distributor or Dealer who has bought the hoist from NuCraft for resale to the public.

HOIST ALTERATION

This warranty does not cover alteration of the aluminum Craftlander hoist, or failure of hoist components caused by such alteration.

PRODUCTION CHANGES

NuCraft and its distributors/dealers reserve the right to make changes in aluminum Craftlander hoists built and/or sold by them at any time without incurring any obligation to make the same or similar changes on hoists previously built and/or sold by them.

Your 2-Year Basic Limited Warranty

WHAT IS COVERED:

The 2-Year "Basic Warranty" covers every NuCraft supplied part on your aluminum Craftlander hoist and aluminum canopy support frame.

The “Basic Warranty” begins on your hoist’s Warranty Start Date. The Warranty Start Date is the earlier of (1) the date you take delivery of your new aluminum Craftlander hoist, OR (2) the date the hoist was first put into service (for example, as a dealer “demo” or as a NuCraft company hoist). The “Basic Warranty” lasts for 2 years (24 months) from this date.

The “Basic Warranty” covers the cost of all parts needed to repair any item on your aluminum Craftlander hoist that are defective in material, workmanship or factory preparation.

Your 15-Year Fabricated Frame & Extrusion Warranty

WHAT IS COVERED:

The “Frame and Extrusion Warranty” covers these parts and components of your aluminum Craftlander hoist frame for 15 years counted from your hoist’s Warranty Start Date:

Extruded Aluminum: columns, rails, spreaders, crossmembers, “Twin Beams”, legs, stands, extensions, canopy inserts, bows, rails, and clamps.

Fabricated: hoist wheel, winch, corner brackets, column guide plates, and footpads.

What your NuCraft Limited Warranties Do Not Cover

Vinyl canopy covers are covered by a 5-Year Limited Warranty by the material manufacturer.

Your NuCraft Limited Warranties do not cover the costs of repairing damage caused by environmental factors or acts of God. “Environmental factors” include such things as airborne fallout, chemicals, tree sap, salt, electrolysis, ocean spray, and water hazards. “Acts of God” include such things as hailstorms, windstorms, tornadoes, sandstorms, lightning, floods and earthquakes. Some water situations may require Anodes to be placed on your Craftlander hoist. Please check with your dealer or local marina for additional information as damages done by electrolysis is not covered under warranty.

Your NuCraft Limited Warranties do not cover the costs of repairing damage caused by poor or improper maintenance.

Your NuCraft Limited Warranties do not cover the costs of normal/scheduled maintenance of your aluminum Craftlander hoist.

Your NuCraft Limited Warranties do not cover the costs of repairing damage or conditions caused by fire or accident; by abuse or negligence; by misuse; by tampering with parts; by improper adjustment or alteration; by any changes made to your aluminum Craftlander hoist; the cost of rental hoist or slip; gasoline, telephone, travel or lodging; the loss of personal or commercial property; the loss of revenue, etc. NOTE: Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

How To Get Warranty Service for Your Hoist

Please contact the dealer from whom you bought the hoist for warranty claims. When contacting your dealer, please provide them with your hoist’s model number, hoist serial number, date of purchase and the nature of the problem. If contact with the dealer is not feasible, please contact NuCraft Metal Products for further assistance.

Proudly Made in Michigan
By
NuCraft Metal Products
402 Southline Rd.
Roscommon, MI 48653