



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



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

Rev 02/11/11
A-MH-10PWCmanual

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.

Make sure you have all needed tools before you begin. It will cut down on the frustration level! (see list below)

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

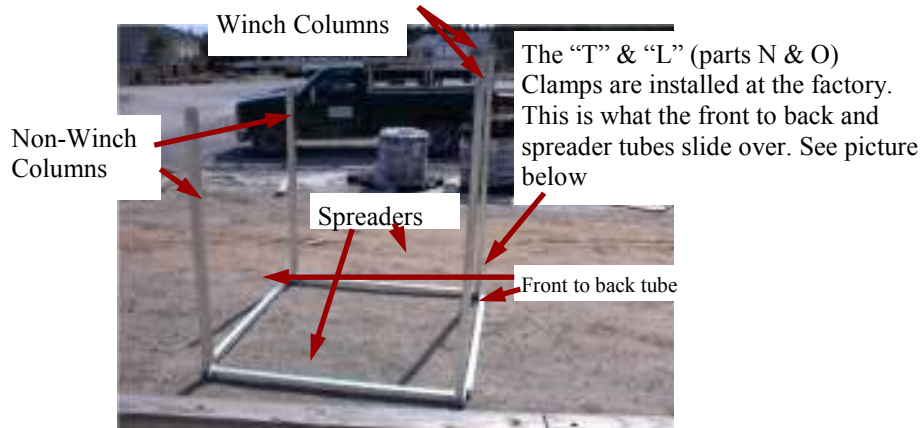
If you have purchased an optional power assist ask your dealer for installation instructions. Improper installation may result in hoist failure and possible personal injury.

Tool List: 3/8", 7/16", 1/2", 9/16", 5/8" wrenches, 3/8" drive sockets of same size, 3/8" drive ratchet and 4" extension, regular and phillips screwdrivers, hammer, adjustable pliers and wrench. If you have a well stocked tool box you probably have what's needed in sets.

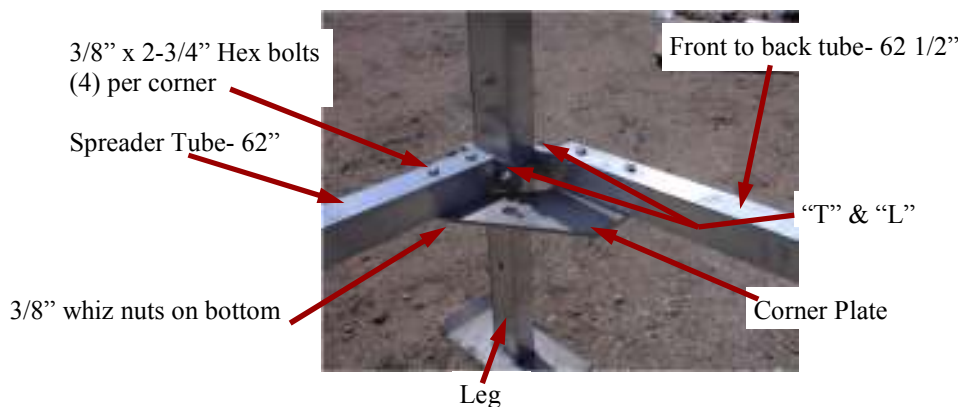


10PWC Vertical Hoist Assembly Instructions

Layout 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 column that has the "T" and "L" clamps attached, secure with a 3/8" x 2-3/4" bolt & whiz nut using the bottom hole on the column (see below). Repeat for each column.

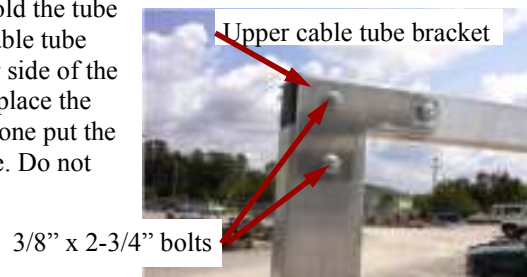


Begin assembling your hoist by locating the columns, front to back and spreader tubes. Start with one of the winch columns, stand it upright and slide the front to back tube over the "L" clamp. The smaller of the two clamps. Put (2) 3/8" x 2-3/4" hex bolts in the holes. Install the corner plate on the bottom of the tube as shown below, install (2) 3/8" whiz nuts finger tight. (whiz nuts have the serrated washer attached)

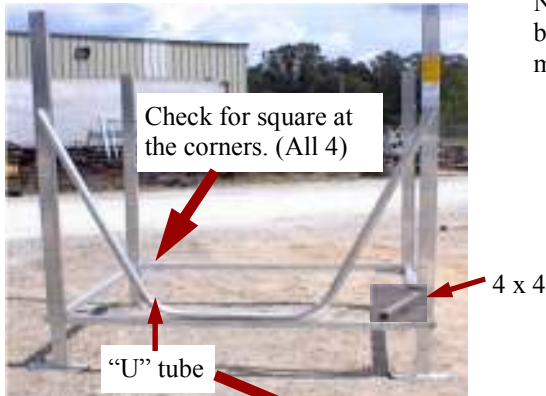


Now slide one of spreaders over the "T" clamp. Put (2) 3/8" x 2-3/4" hex bolts thru the tube and the corner plate. Finger tighten only. Your hoist will now look like the picture above. Repeat this procedure for the other (3) corners. Note: Make sure your hoist has (2) winch columns on the same side and (2) non winch columns on the opposite side. See drawing for part lengths.

Locate the upper cable tube (part H), (4) upper cable tube brackets (part L), (2) 7/16" x 3" hex bolts, (2) 7/16" std. nuts, (4) 3/8" x 2-3/4" hex bolts and (4) 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, place the 3/8" whiz nut on loosely. Repeat this for the other end. Once done put the remaining 3/8" x 2-3/4" bolts and whiz nuts in the proper place. Do not tighten! Leave the 7/16" bolt out for now.

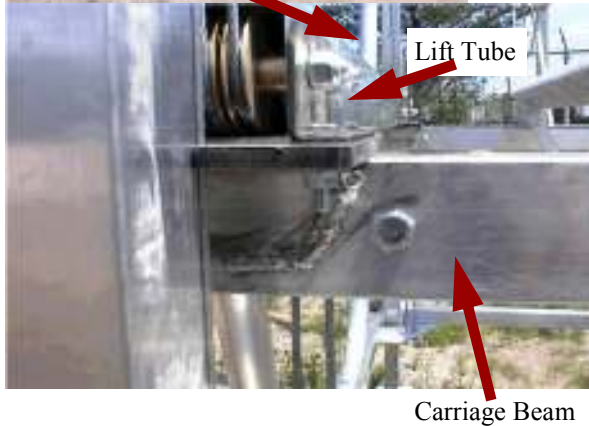


Get the "U" (part E) tube support, (4) 3/8" x 4 1/2" hex bolts, (4) 3/8" nylon lock nuts. On the winch column side place the "U" tube on the front to back tube, align the bolt holes then put the 4 1/2" long bolts thru placing the nylon lock nuts on finger tight. Align the bolt holes on the top of the tube with the ones on the winch columns. Push the remaining 4 1/2" bolts thru putting the lock nuts on finger tight. Bolt ends to outside of hoist. You can now go back and tighten the bolts. Make sure the hoist is as square as possible. A framing square would work well for this.

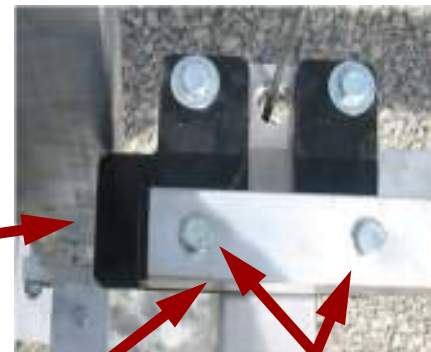


Now is a good time to get (4) 4 x 4's or any 4 equal size boards and place them diagonally across each corner. This will make it easier to put the lift carriage together.

Locate parts D (carriage beam qty 2), F (lift tube qty 1), G (carriage tube qty 1), M (black plastic guide plates qty 4), (10) 3/8" x 1-1/2" hex bolts, (4) 3/8" x 3", (4) 3/8" flat washers and (10) 3/8" locknuts. Place one of the carriage beams on the 4 x 4's so the hole on the tube faces down on the "U" tube side of the hoist. This allows the cable to go down to the corner plate on this side of the hoist. Repeat this for the other end of the hoist. Place the black plastic guide plates on top of the carriage beams so that they fit around the columns on two sides. Refer to picture below. Place the lift tube on top of the black plastic plates on the "U" tube side of the hoist with the end with the cable that has the eye bolt assembly on it opposite the winch. The other end of the cable will have one end with nothing attached to it (this end goes to the winch). Now place the carriage tube on the opposite side, it doesn't make any difference how you place the tube on the plastic so long as the four holes line up. Put f (4) 3/8" x 3" hex bolts thru the tube, plastic and the plate welded on top of the beam. Use (4) 3/8" whiz nuts here, finger tighten.

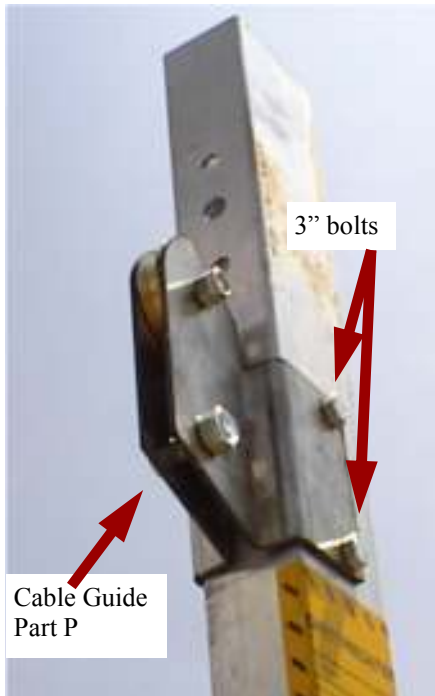


Put (4) 3/8" x 1 1/2" bolts with washers in the other holes using 3/8" whiz nuts, finger tight. Refer to picture below.



Carriage Tube 3/8" x 3" bolts

The carriage assembly is now together. Square carriage and tighten bolts.



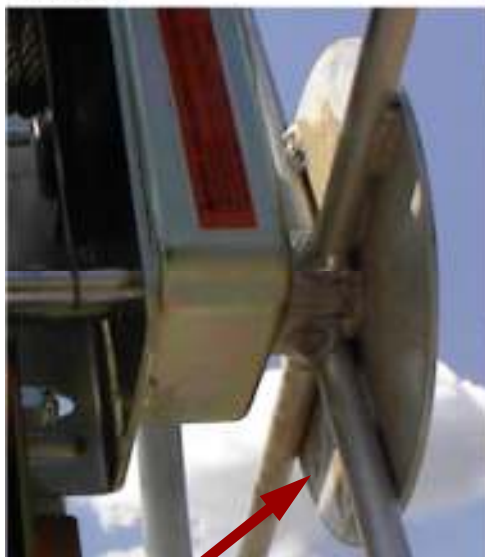
Winch mounts to the column as shown.

DL Winch

Find the Winch Pulley Bracket (part P, this part comes pre-assembled) (2) 3/8" x 3" bolts and (2) 3/8" lock nuts. Install the guide on the winch column that is on your right as you are on the side with the "U" tube. Install the 3" bolts and lock nuts. You can tighten these being careful not to bend the column or guide. Now get the DL winch (part U) (see picture), (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 bracket 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, putting a 3/8" whiz nut finger tight on. 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 again being careful not to bend the column. When you are finished it will look like the picture below.

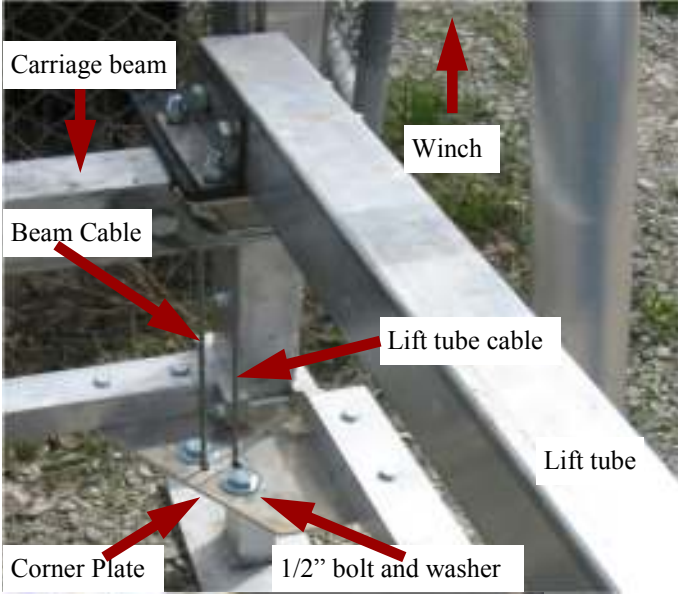


NOTE:
Do not use the spring that comes in the box when you put the wheel on. Throw the spring away!

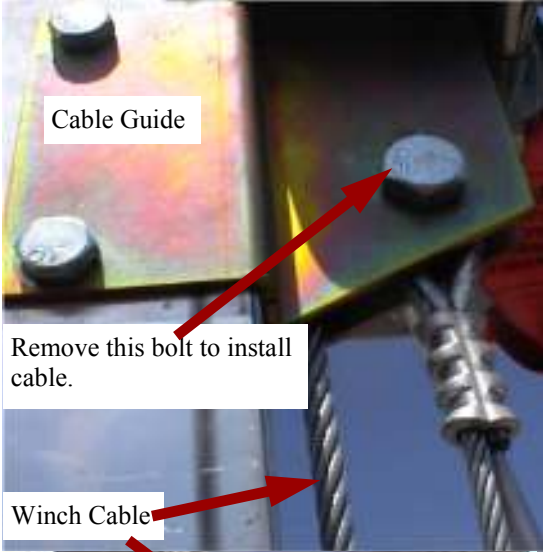


Thread the 30" wheel on the winch shaft as far as it will go making sure it's tight against the winch, when the wheel makes contact on winch brake pad you will hear a clicking noise when wheel turns clockwise.

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.



It's time to install the cables. Start at the column with the winch on it. The cables that will go to the corner plates have the copper stops and washers on them. Take the cable that comes out of the lift tube and place it thru the key hole slot in corner plate, making sure washer is thru hole and on bottom of plate, that is closest to the side of hoist pushing it to the narrow side of the slot. Put a 1/2" x 1 1/2" hex bolt and 1/2" washer thru the larger side of the slot installing a 1/2" nut on the bottom, tighten securely. Repeat this process for the cable that comes out of the carriage beam (the beam goes from side to side). Move the other end of the hoist and do the same process. The lift tube cable goes in the slot closest to the side of hoist and the beam cable in the other slot. **Warning: Make sure all cable stops are on the bottom side of the corner plates. Not doing so could result in hoist failure.** Please refer to assembly drawing for cable routing.



Attach the lift tube cable end that has the single loop on it to the cable guide by removing the 7/16" bolt then align the loop with the holes in the cable guide, put the bolt and nut back in and tighten. The other end of the lift tube cable has an eye bolt assembly with two cables attached. **This will be the last cable that is attached to the hoist.** The winch cable is next. That's the one with nothing attached to the end of it. Start by routing the cable thru the cable guide between the column and the brass pulley. Pull all the slack out. Refer to the picture below.

Now find the cable clamp and bolt.



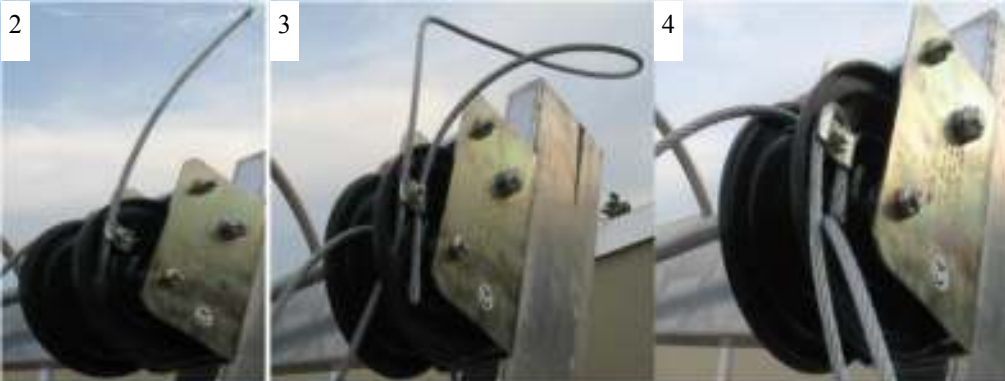
Install on the winch cable from inside of drum to outside of drum loosely. You will need enough room to get the cable thru. See picture.



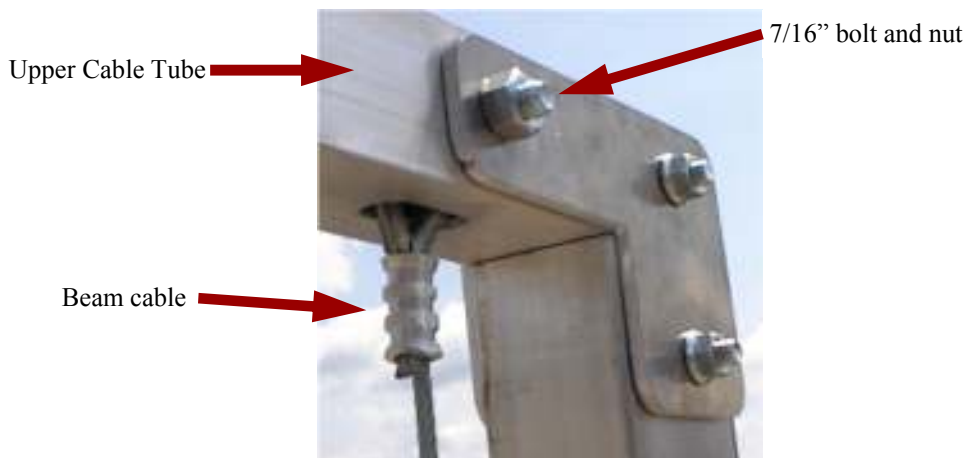
Before attaching cable to winch stretch it out to check for any kinks and to make sure it's not tangled.



1 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. Sometimes it's difficult to do this, be patient and it will work.



5 **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. You are done with this side of the hoist for now, it's time to install the cables on the other side of the hoist. Pick up one of the cables coming out the beams (it doesn't matter which one) attach it to the Upper cable tube by installing the 7/16" x 3" bolt. Put the looped end of the cable thru the slot in the bottom of the tube, align with the holes on the side of the tube and put the 7/16" bolt and nut back in. Tighten securely then do the same for the other end of the hoist.





Now find the 1/2" x 4" bolt with a short piece of pipe welded to it (item 8), it looks like a pipe. You will also need a 1/2" lock nut and (2) 1/2" washers. Put one washer on the bolt then put it thru the center hole, slide the other washer and nut on and tighten securely. Make sure the short pipe is aligned with the column.

1/2" lock nut and washer

Insert the eyebolt with the two cables attached to it and put a 1/2" washer and 1/2" lock nut on and tighten until the slack in the cable is out. To check for correct tension grab the 3/16" cable as if you were making a fist placing your thumb on the cable (it will look like you are giving the thumbs up signal!). If you can easily flex the cable then the cables should be adjusted correctly. Remove the 4 x 4's and operate the hoist up and down. The carriage should move without binding, if it binds the cables are too tight. Adjust them by loosening the 1/2" lock nut. This is the only place you have to adjust all the cables on your 10PWC!

1/4" Cable

3/16" Cable

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 tight. 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.



Bunk Flat Bar (8-Req'd)



Completed bunk bracket assembly



Bunk bracket assembly mounted on lift beam.



Carpeted bunk board mounted on bunk bracket assembly.

Bunk bracket (attaches to the carpeted bunk board)

The last step is 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 pulley's 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.



Completed 10PWC

If you need help or replacement parts please contact your local Craftlander dealer for assistance.



After the hoist installation is complete, it is important to next check and 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 up 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.

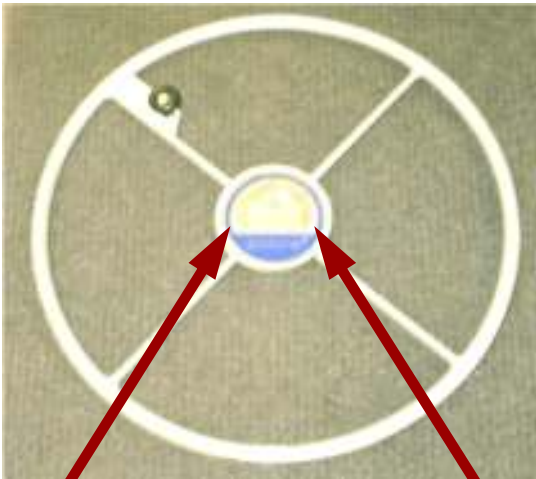
It is recommended that your Craftlander be thoroughly inspected at least once a season. Tighten all bolts. Check all pulleys and make sure they are turning freely. Inspect all cables for fraying, wearing or deteriorating. If any signs appear, replace cables. Check frame thoroughly. Grease the winch drive 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.

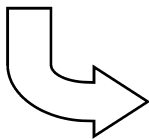


Safety Precautions!!!

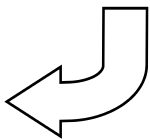
In order to prevent possible injury to both the operator and equipment it is extremely important that the lift wheel is always turned clockwise when raising the platform. Close attention should be paid to the decal on wheel raise and lower arrows. (*clockwise raises, counter clockwise lowers*) If cable 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.



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.



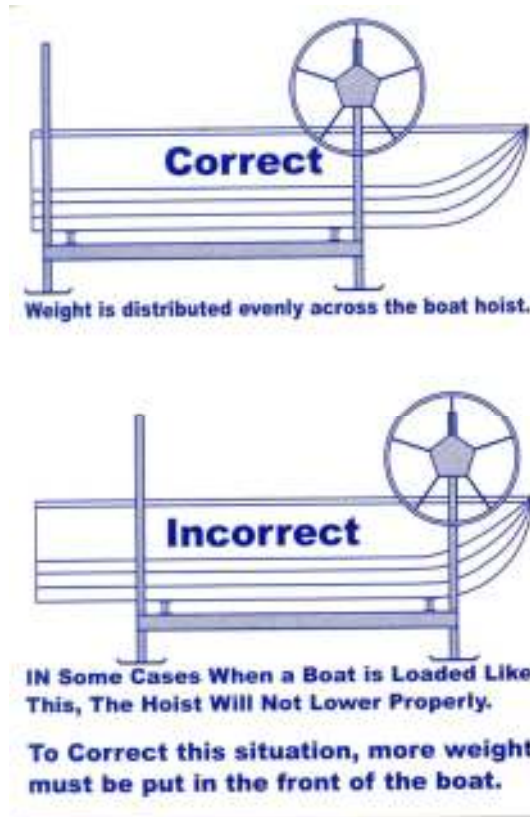
Wheel sticker



Column sticker



Hoist loading sticker. On all vertical hoists.



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 not work properly 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 and labor needed to repair or replace any NuCraft supplied item that proves defective in material, workmanship or factory preparation. These repairs or replacements (parts and labor) will be made 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 and labor needed to repair any item on your aluminum Craftlander hoist that is defective in material, workmanship or factory preparation. You pay nothing for these repairs.

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.

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. They do not cover the cost of lubrication, replacing cables or fasteners unless done as the result of repair covered by your 2-year “Basic Warranty”.

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; or 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 service. 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
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Roscommon, MI 48653