

2500 lb Vertical Boat Lift Assembly Instruction Manual, Safety & Warranty Information, year 2010



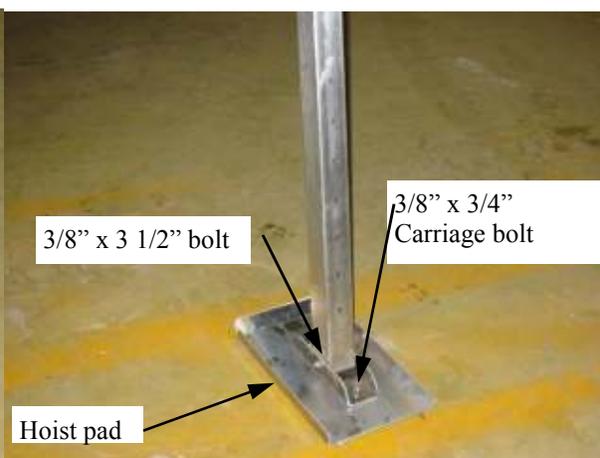
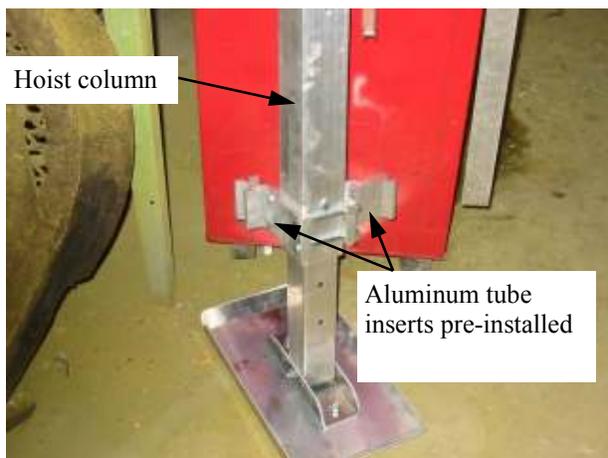
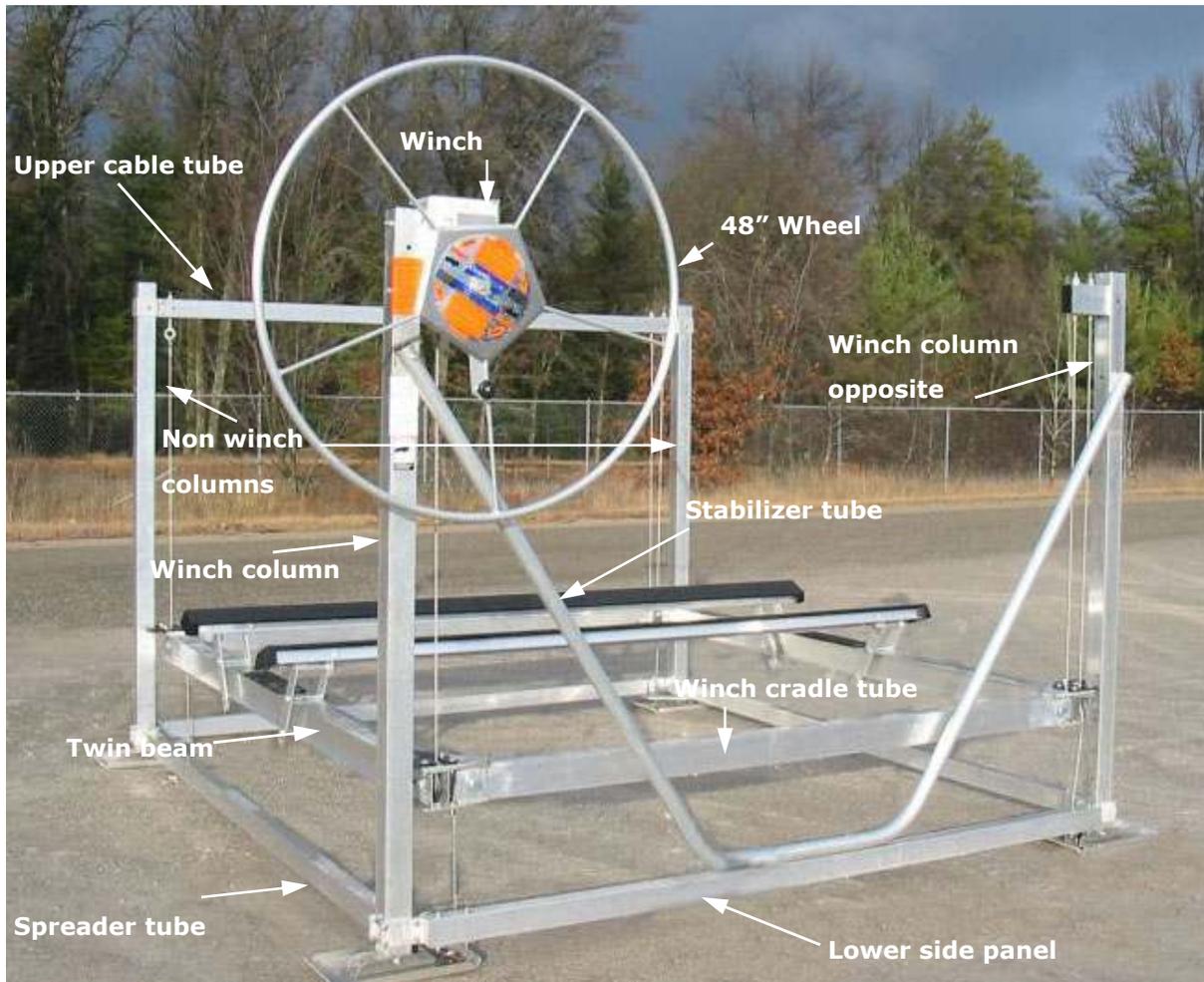
Proudly Made in Michigan
By
NuCraft Metal Products
402 Southline Rd.
Roscommon, MI 48653

A-MH-V25-10manual
Rev: 2/5/10

The manuals and drawings are also on the web at www.Craftlander.com

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

Suggested frame assembly method shown below



1.) Assemble telescoping legs in hoist columns. Aluminum tube inserts pre-attached for lower tube frame.

View of hoist pad, pad bracket and telescoping leg.



2.) Insert lower side panel tube over “L” shaped clamp on a column. See below. Note **DO NOT OVER TIGHTEN BOLTS ON TUBES WITH NO SUPPORT INSIDE OF TUBING.** One bolt on “L” clamp locations is one of those places.

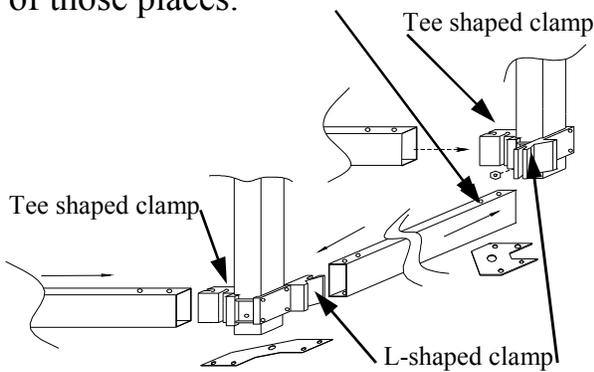
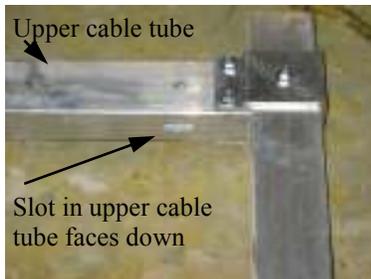
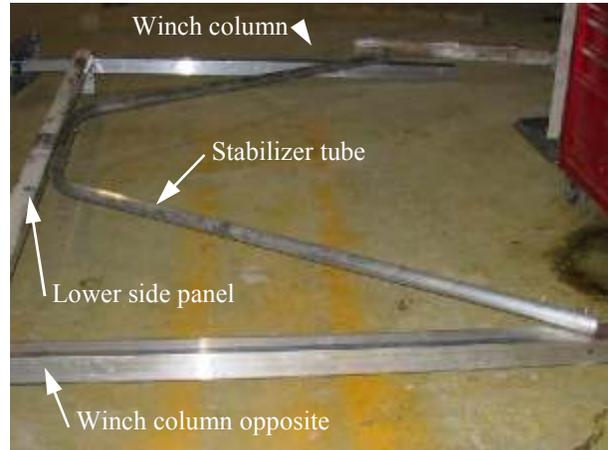


Illustration showing lower framing components.

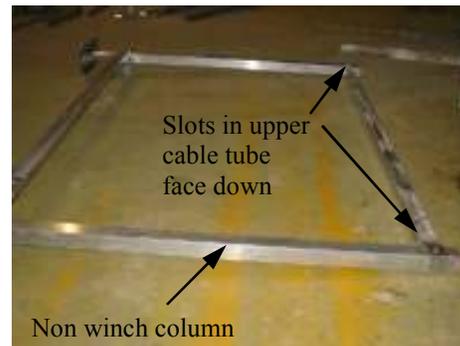


View of column clamp on upper cable tube side.

5.) Stand assembled side up and insert spreader tube over tee clamp on column. Repeat on other side assembled.



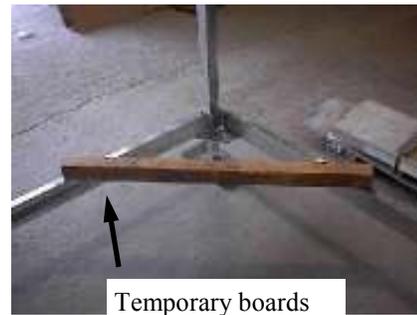
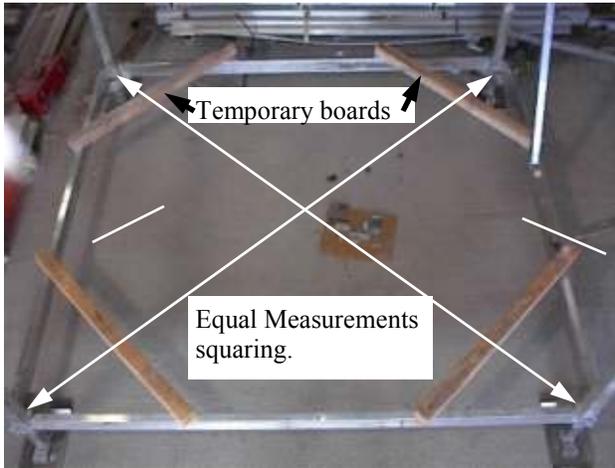
3.) Insert lower side panel tube with “L” shaped clamp on winch column (has winch holes toward top of column). Repeat on winch column opposite (has welded cable connection tube). Clamps will be bolted on opposite to one another. See below



4.) Assemble lower side panel, non winch columns, and upper cable tube next. Similar to step 3



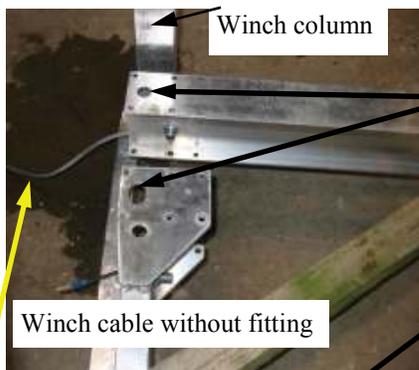
Below: Laying twin beams on the temporary boards



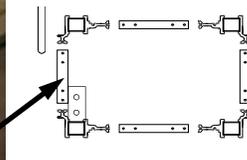
Another picture of diagonal use of the temporary boards.

After squaring hoist frame, tighten bolts. To help further installation lay boards across the corners of the frame diagonally. They will support the carriage when assembling. (Like shown in the picture)

Find the twin beams. The twin beam that has one cable in it goes on front winch corners of hoist. The Winch cable without fitting goes on the winch side. The cable end with fitting goes on front corner. The winch cable end without fitting goes up through hole on twin beam and front to back member after the front to back member is slid over the twin beam. See pictures below. Larger plate on front to back member is the top.



Winch column view of twin beam.

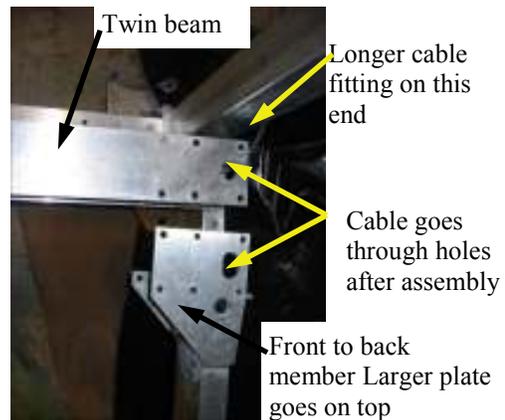


Top View drawing



Winch column view of twin beam and front to back member together.

Winch cable without fitting



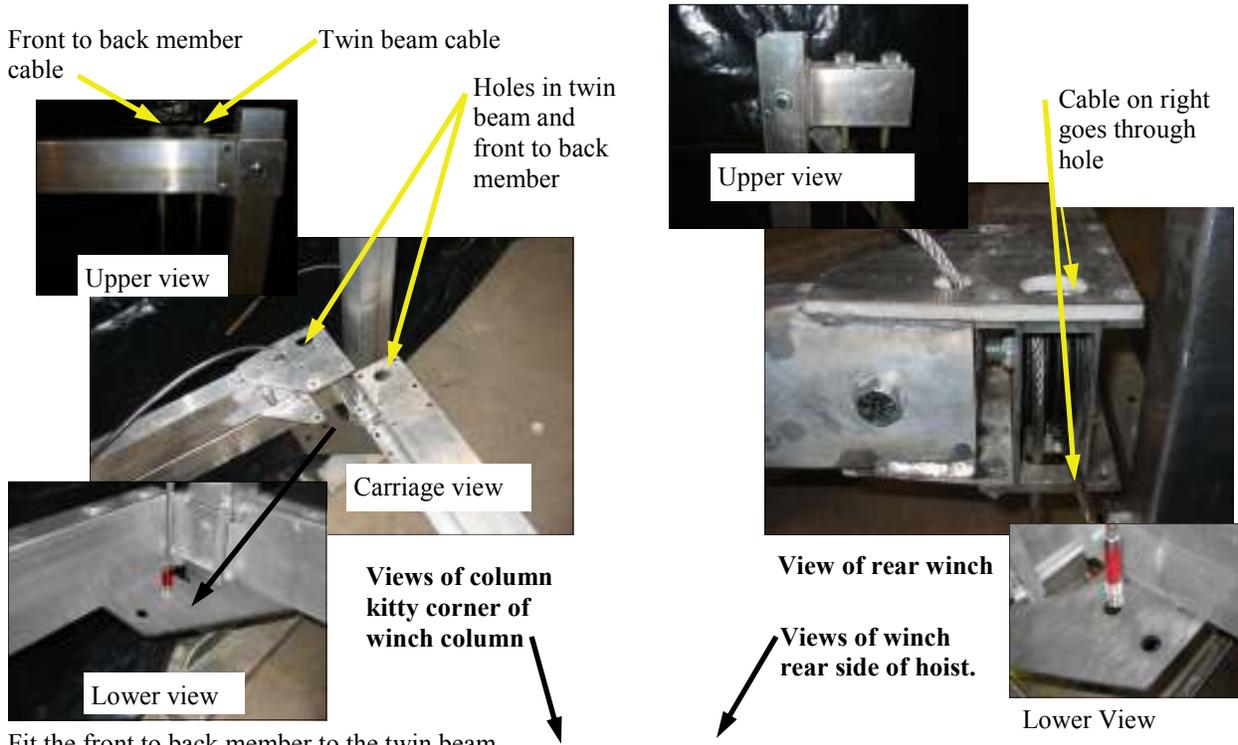
Non winch front of hoist corner above.

The cable fitting with threaded stud goes through hole in twin beam and front to back member. After the two are slid together the cable connects above in the upper support cable tube.

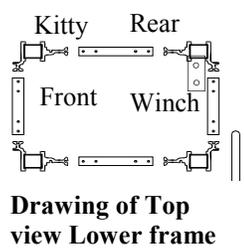
Non winch front of hoist corner. Parts are fit together.



Next, lay the rear twin beam the beam with 2 cables in on the temporary boards on rear of hoist. The cables that go up (longer cable fittings) are closest to outside of hoist. The cables that go down (shorter cable fittings) will be closest to inside of hoist.



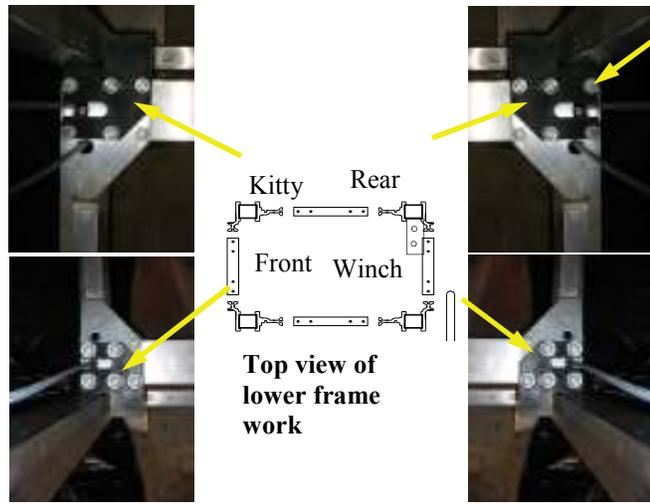
Fit the front to back member to the twin beam. Feed the cable in twin beam with the longer cable fitting through the holes in the twin beam and front to back member upward. The cable end on the front to back member goes up and fastens to the upper support cable tube. The cable coming out of the front to back member also fastens to the upper support cable tube. The Twin beam also has a cable with shorter fitting that's on the inside of the hoist that fastens to steel plate on the bottom with 5/8" lock nut.



Drawing of Top view Lower frame

The cable on right with longer cable fitting goes up though hole in twin beam and clip on front to back member and has longer cable fitting on it.

Below top views of corners with plastic guide plates on



Top view of lower frame work

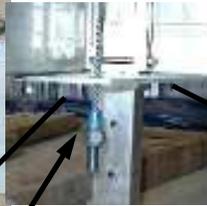
3/8 x 1 1/2 bolt with washer and nut.

Next put the plastic guide plate on top of the twin beam. Bolt with 3/8" x 1 1/2", 3/8" washer and 3/8" whiz nut. Tighten. Next page has more top view of connections. Repeat on the other ends.

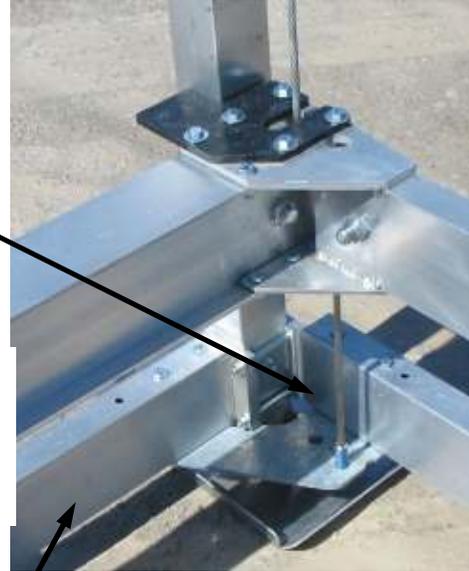
Note when putting nuts on cables the lower cable fittings do not need washers but the upper longer fittings do. **Do not tighten cables very much.** You should be able to grab the cable after putting nuts on and move from side to side some. Cables over tightened can prevent the hoist from going down freely



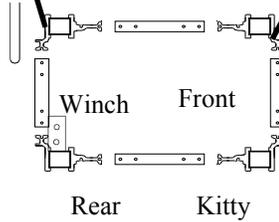
Winch column area assembled view



5/8" Lock nut on cable fitting on bottom side, no washer necessary here



Front Column area assembled view



Rear Column area assembled



Kitty corner to winch column area assembled view

Top cable connections



Next, we will be doing the upper cable connections. The long cable fittings will be going through tubes with washer and 5/8" lock nut. See next picture.

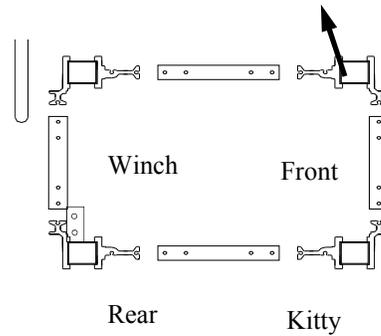
The winch cable in the twin beam goes up and fastens here with 5/8" lock nut and washer



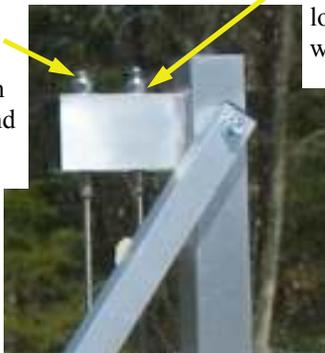
View of non winch front column



View of winch end with diagonal support next page will show assembly.



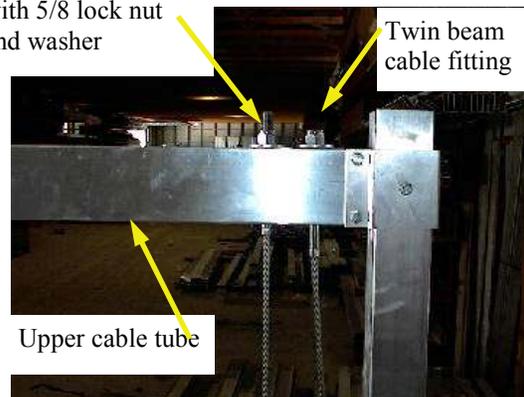
Front to back member cable long fitting with 5/8" lock nut and washer



View of winch side, rear corner of hoist.

Front to back cable with 5/8 lock nut and washer

Twin beam cable fitting

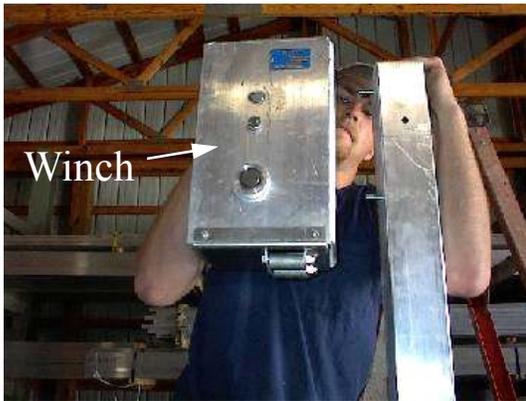


Upper cable tube

View column kitty corner to winch column

Next take the twin beam long cable fitting ends and attach to upper cable tube with 5/8" washer and nylon insert lock nut. Tighten so cables are not tight but not real slack either. Use the holes on the outer edge of tube. If cables are too tight it will prevent the hoist from going down freely. Repeat on the other end. The front to back cables fasten similar (see above for locations).

Note: We use a 11:1 Winch on this Hoist



View of winch on column.

O.K. it's time for the winch. Take 2- 3/8" x 4" bolts with 2 -3/8" washers and whiz nuts. Put the bolts through the winch column like above or from the inside out. Doesn't matter. Line up the bolts with the holes. Use washers on column, none required on inside of winch.



Tighten bolts like above pictures with a 9/16" socket on inside and a 9/16" open end wrench on outside. Grip with the wrench and tighten with the socket.



The wheel is missing the knob yet. Find a 3/8" x 2 1/2" bolt and 2- 3/8" whiz nuts. Put the bolt through the knob and spin one of the whiz nuts on. Don't spin the nut all the way to the knob or else it won't turn freely, leave a small gap. Put the rest of the bolt through the hole in the wheel plate and put a nut on the back side. Use an open end 9/16" wrench to hold the nut by the knob and tighten the nut on the back side of wheel plate.



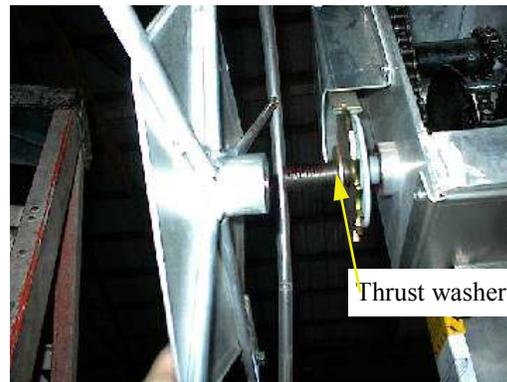
Next, take the 3/8" x 1" bolt out of the winch threaded shaft and steel washer. As shown above.



Next, it's a good idea to put a little grease on the threads (often times grease will already be on the threads). Just enough so the wheel can move on the threads and won't freeze up on them. Corrosion between the shaft and wheel prevents the winch brake from working properly.



The wheel sticker covers the hole for the winch threaded shaft to go through so the sticker needs to be cut out in the hole area.



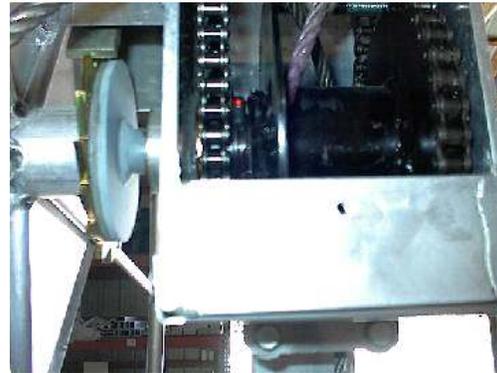
Next lets take the wheel and thread it on the winch clockwise. Thread it on until it comes in contact with the thrust washer. At this point when the wheel turns you should hear the ratchet paw clicking on the ratchet plate.



View of wheel on winch.



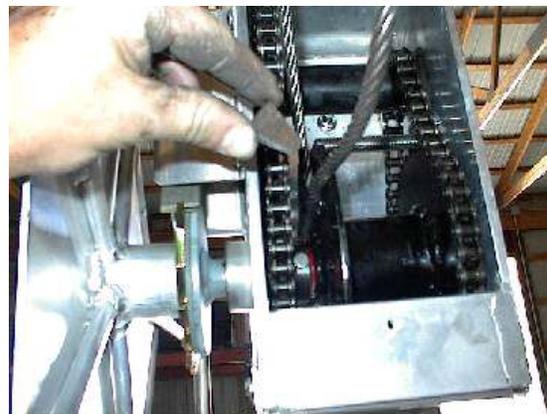
Put the 3/8" x 1" or 3/4" bolt and heavy 3/8" washer back on winch and tighten.



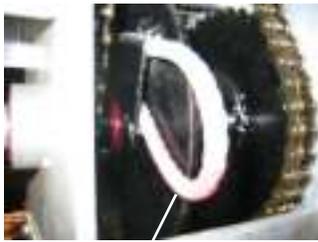
Installing the winch- Take cover off and bolt to winch column with 2 -3/8" x 4" bolts if not already done. Take the winch cable end (end without fitting) and thread through the bottom of the winch and through the hole on the inside of the cable spool.



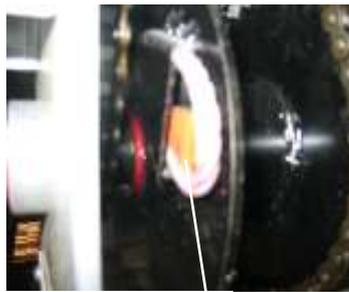
Pull cable out and make a loop and put the end of the cable in the cable holder on the outside of the spool.



Place the cable wedge in the loop then pull cable tight and lock wedge in tight cable loop



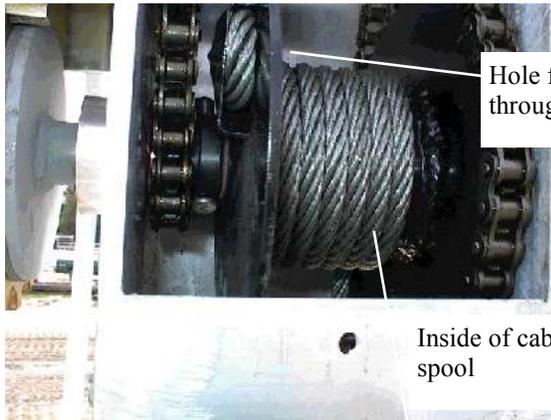
Loop cable



Insert cable wedge



Then pull cable tight through bottom of winch.



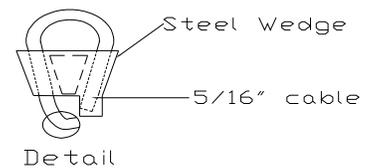
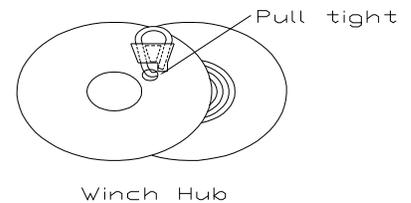
Hole for cable to go through in cable spool

Inside of cable spool

Level wind the cable in the winch spool like above by turning the wheel clockwise. A clicking should be heard when you brake racket paw against ratchet disk. At some point the hoist carriage will lift off the wood on the corners of the hoist. The platform should stay put when the wheel is let go. Sometimes the carriage needs some more weight on it to stay though. See below for more information. Install cover back in place.

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, clutch brake will automatically hold the platform (described as carriage sometimes). 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.



If everything is done right, your hoist should look like the picture on the front cover.

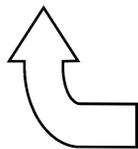
Safety Precautions!!!

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 causing winch damage and **brake will not work** which could cause injury. Under no circumstances should one raise the platform by turning the wheel counter clockwise. Never flip the ratchet located at the lower left corner of the winch box up or raise counter clockwise, as this will cause uncontrollable spin.

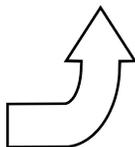


Raise clockwise

Lower (counter clockwise)



Raise



Lower



Ratchet, never lift up as this will cause uncontrollable spin

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 clock wise/down direction.

Possible personal injury and or hoist damage may result.

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

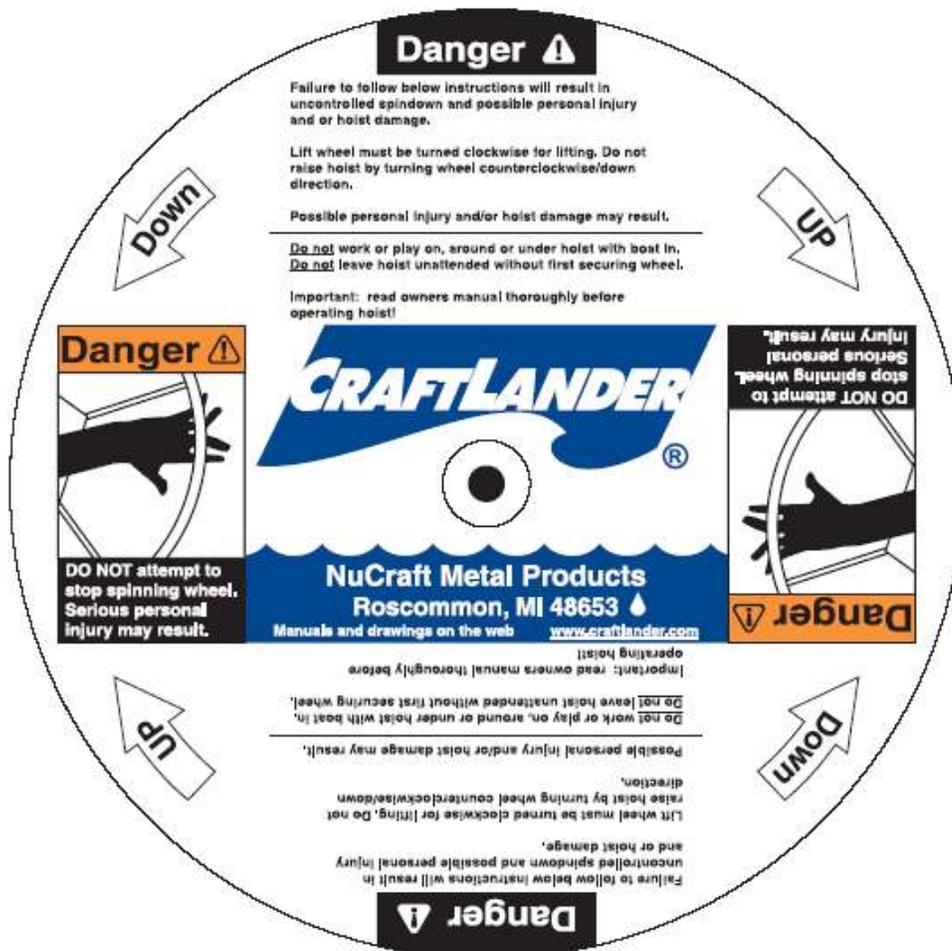
Do NOT leave hoist unattended without first securing wheel.

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

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



Column sticker



Wheel sticker

Hoists manufactured after January 2010 are supplied with vinyl covered aluminum bunks. Carpeted bunks are available upon request.

Vinyl Covered Aluminum Bunks



Carpeted Bunks



Back side of carpeted bunk with aluminum tube attachment.



Bunks shown assembled on the hoist. Fit and adjust to boat.
Boat weight should be loaded 100% on the bunks.



After the hoist is 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 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 (described as carriage sometimes). 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 the lift is cranked up as high as it will go and someone continues to crank the lift up the cable or boat lift will break at some point and boat will drop down. Only persons who have read the manual and understand the dangers of operation should use.

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 and 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.

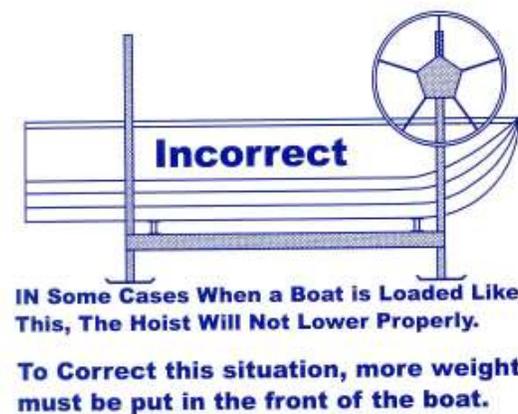
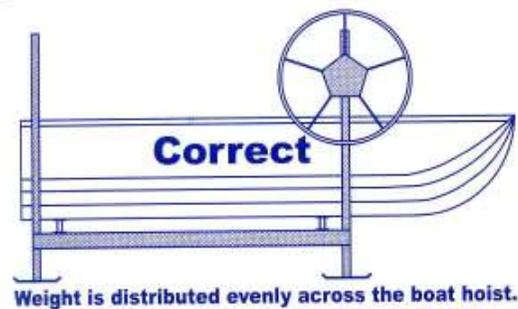


SAFETY PRECAUTIONS

- 1.) This is a piece of equipment and is meant to be cared for as such.
- 2.) Never exceed maximum capacity of hoist.
- 3.) Do not operate hoist with people on board.
- 4.) Keep people clear of hoist while lowering & raising hoist.
- 5.) A boat filling with water can exceed the capacity of a hoist, be sure to pull drain plug.
- 6.) Do not work on craft in raised position.
- 7.) Do not allow adults or children to play on, under or around hoist.
- 8.) Inspect cables for fraying and cable ends to make sure they are securely fastened. Check pulleys to make sure they are turning. If cables are frayed or pulleys worn replace immediately.
- 9.) Padlock wheel to post when unattended.
- 10.) Never attempt to stop hoist wheel should it spin freely this could cause serious injury. Allow the hoist to spin down in the water and no damage will occur.



Hoist loading sticker used 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 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 for weight injury could result). When the hoist is down remove the weight and reload 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, 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
402 Southline Rd.
Roscommon, MI 48653