

IMPORTANT: READ MANUAL AND STICKER SAFETY WARNINGS BEFORE USING THE HOIST

6000 lb Vertical Boat Lift

Assembly Instruction Manual,
Safety & Warranty Information
for models 60120V and 60132V

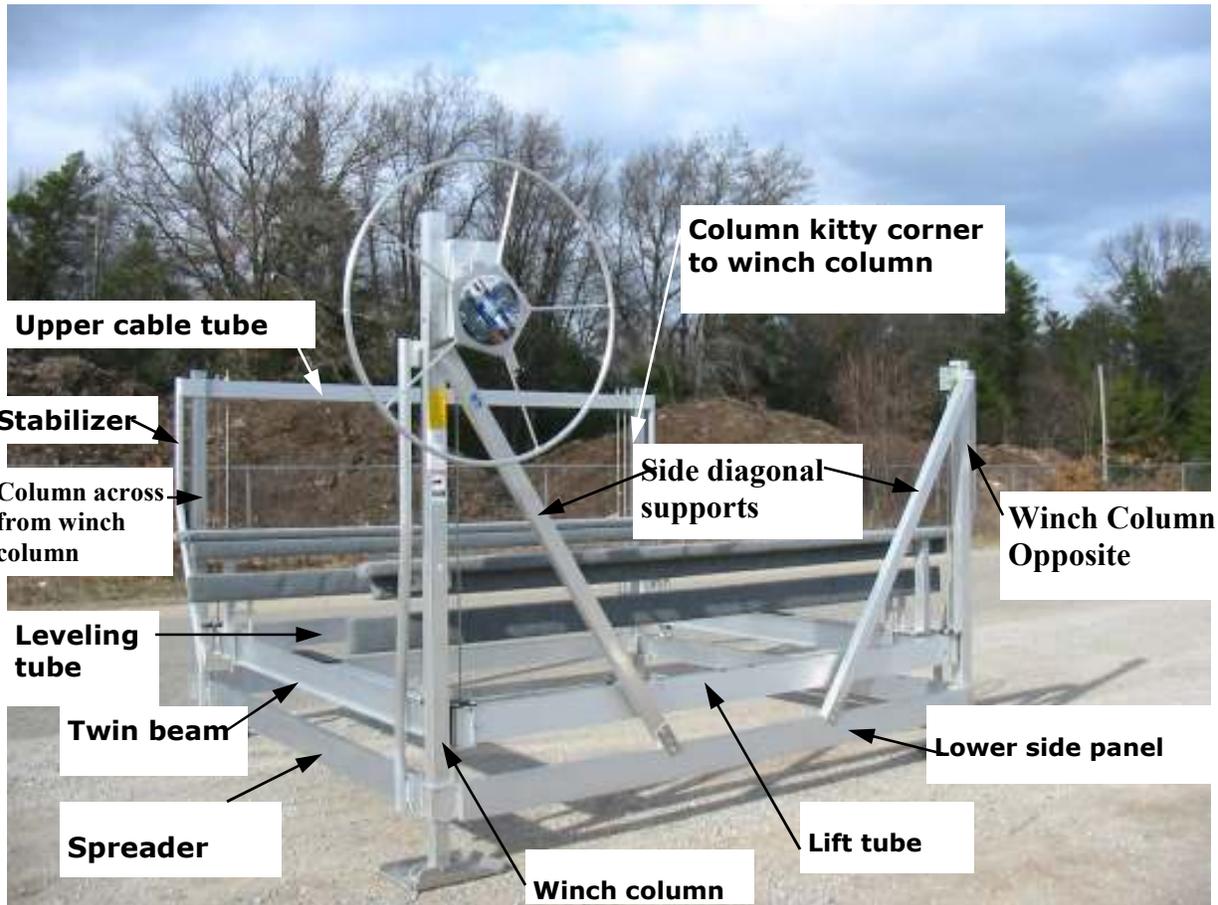


Proudly made in Michigan
By
NuCraft Metal Products
402 Southline Rd
Roscommon, MI 48653

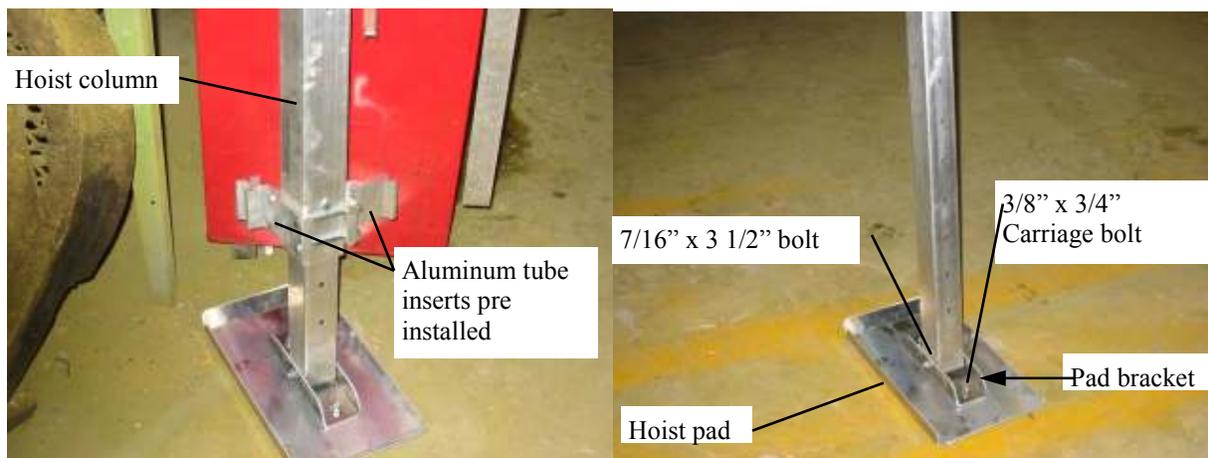
A-MH-V60manual
Rev: 8/2/10

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

Visit www.youtube.com/craftlander for additional assembly help



Hoist with common names used for part reference.



Assemble telescoping leg in hoist column, aluminum tube inserts pre-attached for lower tube frame.

View of hoist pad, pad bracket and telescoping leg.

Below is also in smaller picture on assembly drawing. Good information before starting. Top view of hoist frame

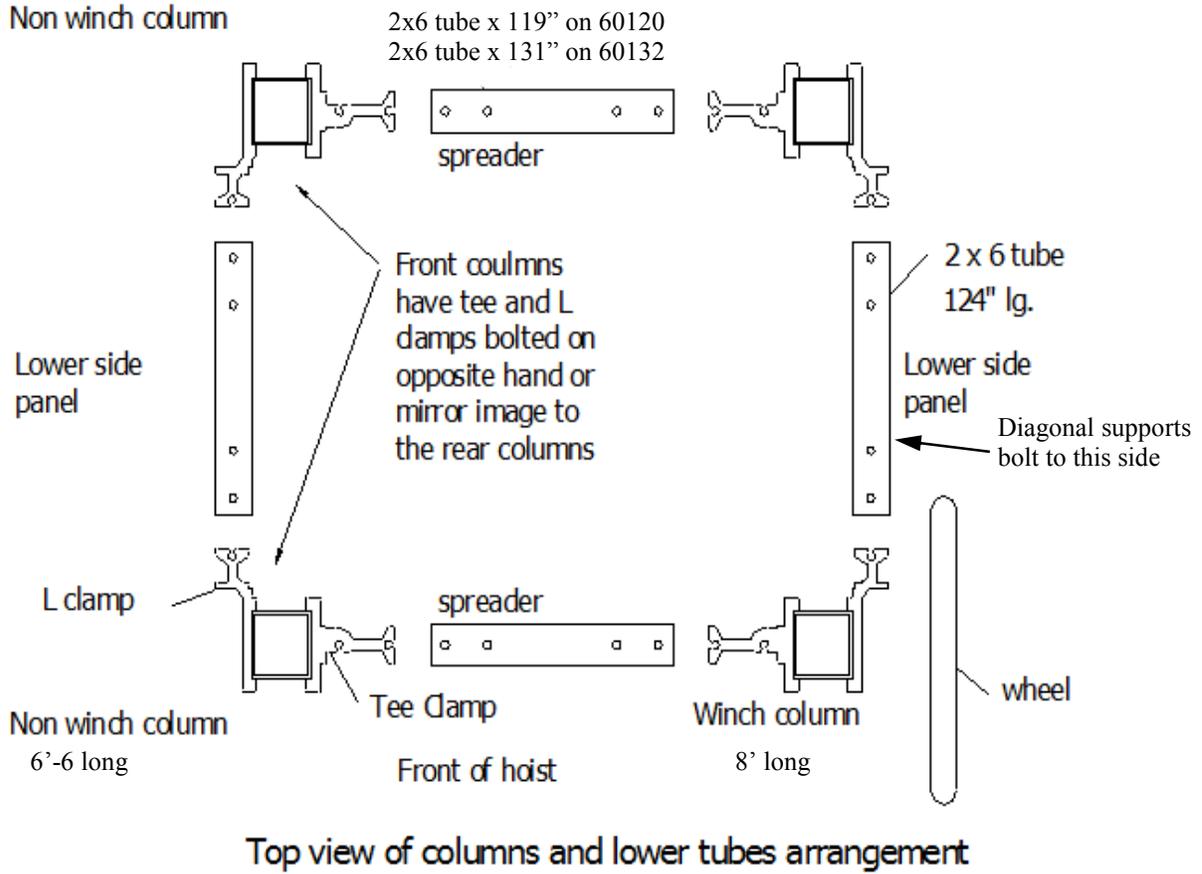
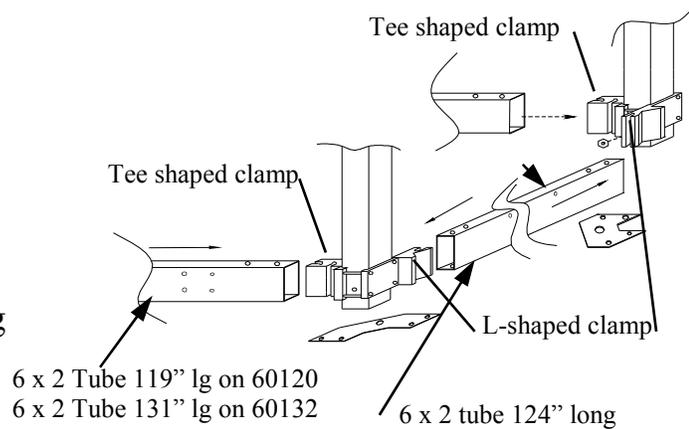
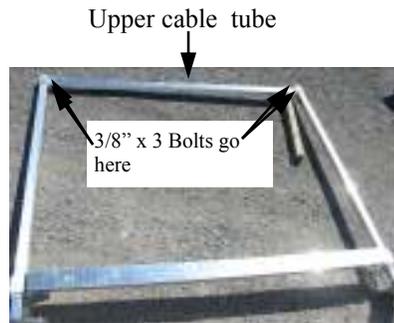


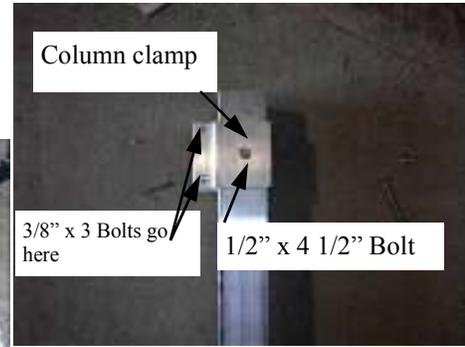
Illustration showing lower framing components.



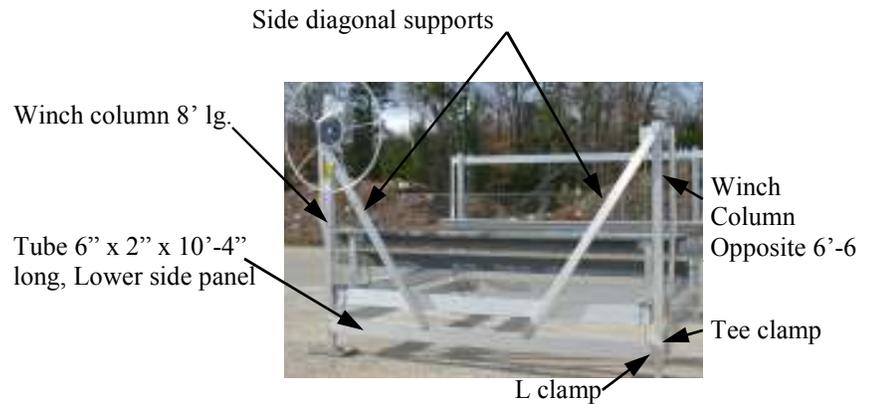
Next, find the column clamps 3" square inside x 4" long. Slide one over each column (one right hand one left hand see drawing on page 2) on top side facing toward inside of columns. Line hole up in columns and put a 1/2" x 4 1/2" bolt through from the top going down. The nut will be on far side, or on the hoist outside. (less likely to damage boat by sticking bolt toward the outside of hoist). Repeat on other column. Next, insert the upper cable tube size 4" x 2" x 10'-6" long into the column clamps and put 2- 3/8" x 3" bolts through from top going down, bolt on each side. Now you have the side opposite the winch (non winch) side panel together.



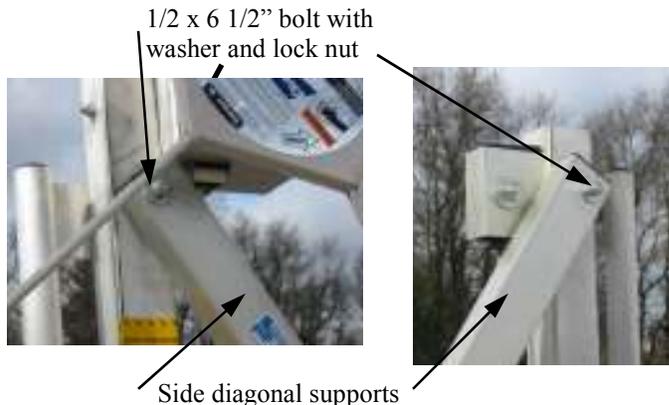
View of non winch side panel assembled



Upper column with column clamp attached



Next, you will need the winch column 3" square tube 8'-0 long, and the winch column opposite 3" square 6'-6 long, lower side panel tube 6" x 2" x 10'-4" long, two side diagonal supports. The above picture shows the Tee clamps that goes toward the inside of hoist and winch column on the right. Bolts need to be put in from the near side toward the outside of the hoist. Put the lower tube into the "L" clamps like was done with the other panel and drop some bolts through tube. The diagonal supports has one 1/2" hole at square cut end. Use the 1/2 x 6 1/2" bolt with 2- 1/2" washers and 1/2" lock nut. Lay the wide part of support on the winch column, line up holes and put 1/2" x 6 1/2" hex bolt with washer though the winch column from the back side though the column and brace. Put another washer over the bolt then lock nut, do not over tighten. The other support end bolts to the 6 x 2 tube on bottom with 3- 3/8" x 2 3/4" bolt and 3/8" whiz nuts. (see below picture) Remember all bolts stick toward the outside of the hoist. The other diagonal brace bolts to the rear column similarly.



Close up of winch column brace connection.

Close up of rear column brace connection



View of 1/4 x 3 x 6" long flat bar (4-req'd) on diagonal braces secured with 3/8 x 2 3/4 hex bolts and 3/8 whiz nuts. (6-req'd)

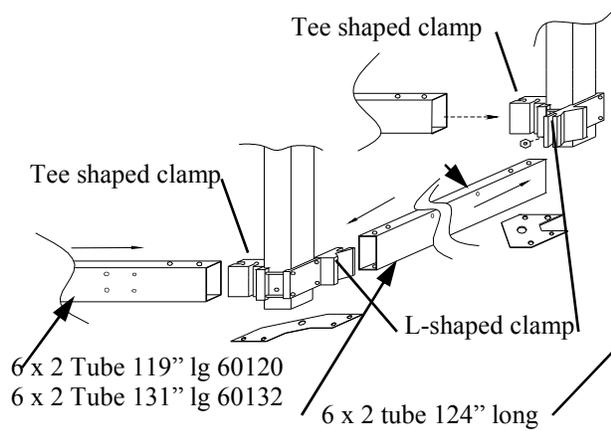
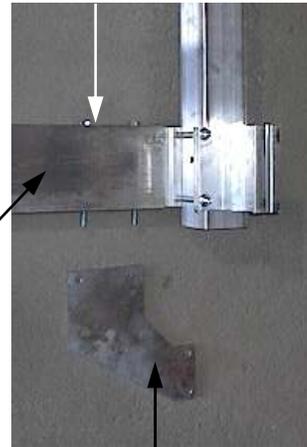
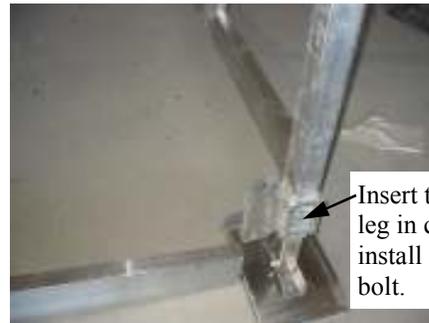


Illustration showing lower framing components.

3/8" x 7" Bolts



Find the 1/4" steel lower corner plates.

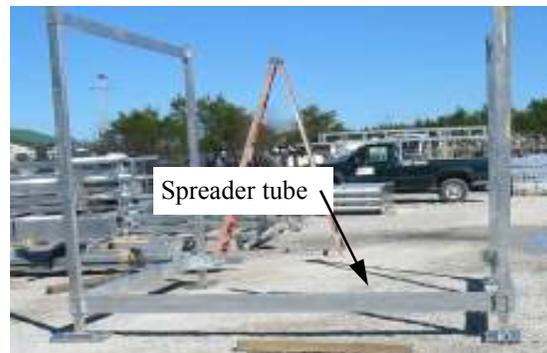


Insert telescoping leg in column and install 7/16 x 3 1/2" bolt.

View of column kitty corner to winch column showing telescoping leg inside of column.



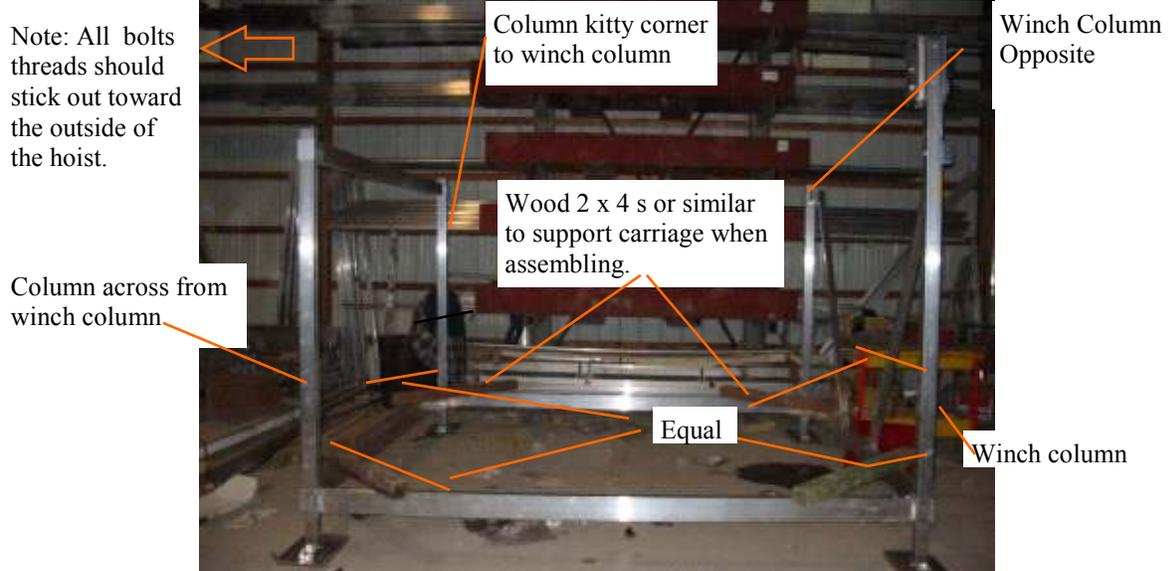
Next, put the galvanized lower corner plate on the corners of the assembled sides. Leave 3/8" x 7" bolts loose to help install the lower spreader into the TEE clamps. Use 3/8" whiz nuts on bottom. Important note: One of the L clamp area bolt holes has no member under it. **Do not over tighten this, as it could damage the aluminum tube.**



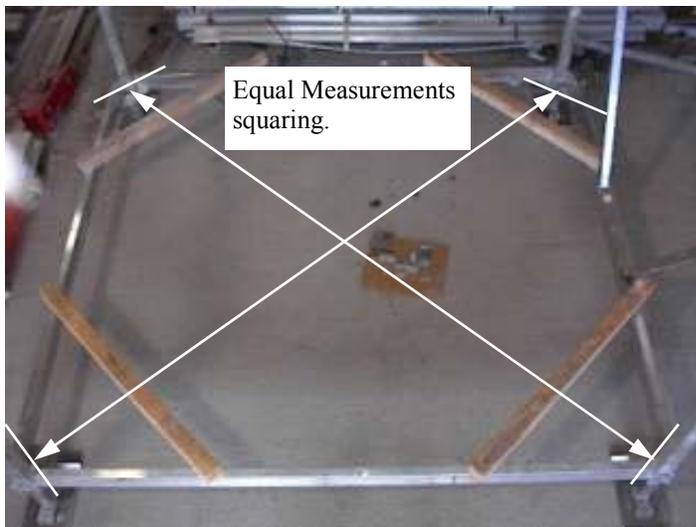
Next stand the side panels upright and lay the spreader tubes 6 x 2 tube (Length is 1" shorter than beam on hoist. Example: 120 wide hoist tube is 119" lg.) in between them. You may want someone to hold them while you are assembling. Insert the lower spreader tube into the TEE clamps each side use 3/8" x 7" bolts with whiz nuts.

Caution: Cables should not be real tight. Keep loose enough to shake around a little.

Suggestion: After lower frame assembly is done put boards kitty corner on the frame to assemble upper carriage.

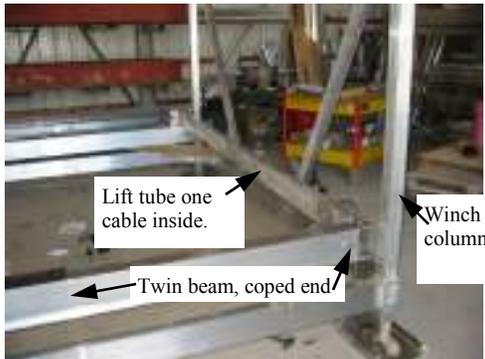


It helps when assembling the frame to keep the bolts loose until the aluminum bottom parts and galvanized plates are attached to the lower corners. Then square the hoist (tram) from column to opposite column diagonally with equal measurements then tighten.



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)



Set twin beams on the wood temporary supports with coped end on winch side of hoist. Lift tube on winch side of hoist, bare cable end at winch column.



View of winch column, lift tube and twin beam. Cable from twin beam fastens below. Cable in lift tube goes into winch then through hole in twin beam.



Set leveling tube on wood temporary supports on opposite side of winch. Welded angle clips face inside of hoist. It has 2-cables inside.



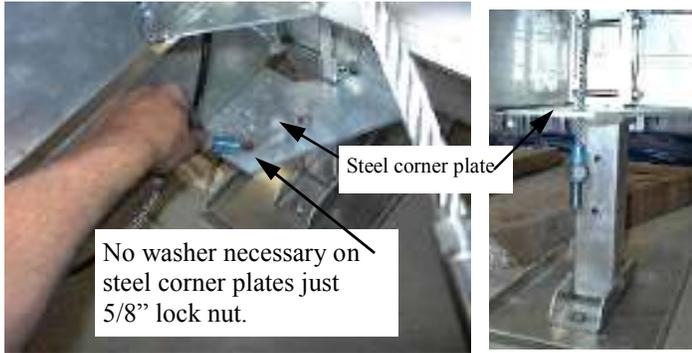
View of winch column opposite. Twin beam cable anchors below. Lift tube cable 5/8" threaded stud fastens above with 5/8" Lock nut and washer, going through hole in twin beam.



View of column kitty corner to winch column. Leveling tube and twin beam. Cable in twin beam fastens above with 5/8" lock nut and washer. 2-Cable ends in leveling tube, long threaded end up, short threaded end down. Loosen 3/4" sheave nut to slide through coped clip on leveling tube.



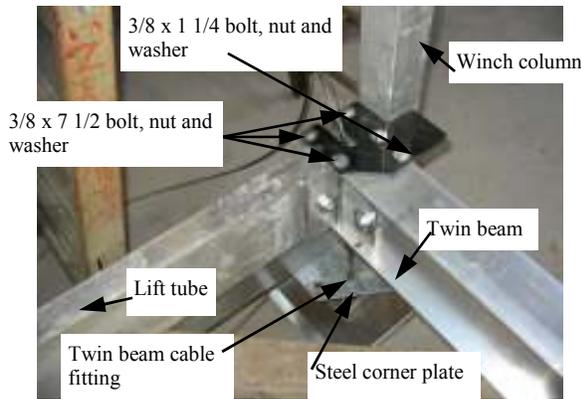
View of column across from winch column, leveling tube and twin beam. Twin beam cable fastens above with 5/8" lock nuts and washer. 2-Cable ends in leveling tube, long threaded end up, short threaded end down. Loosen 3/4" sheave nut to slide through coped clip on leveling tube.



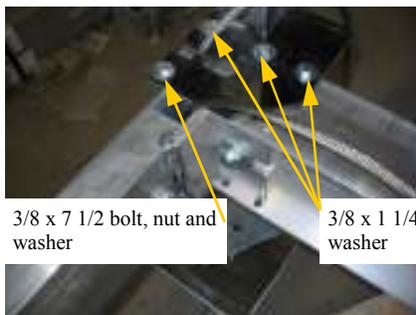
No washer necessary on steel corner plates just 5/8" lock nut.

View of non winch column (across from winch column front of hoist)

Next take the short cable fitting coming out of the leveling tube beam on non winch column front side of hoist and put it through the furthest hole to column. Put a 5/8" nylon insert lock nut on the back side and tighten so some threads are sticking out from the nut. Use a wrench on the cable machined flats to turn the nut. Repeat on the other end.



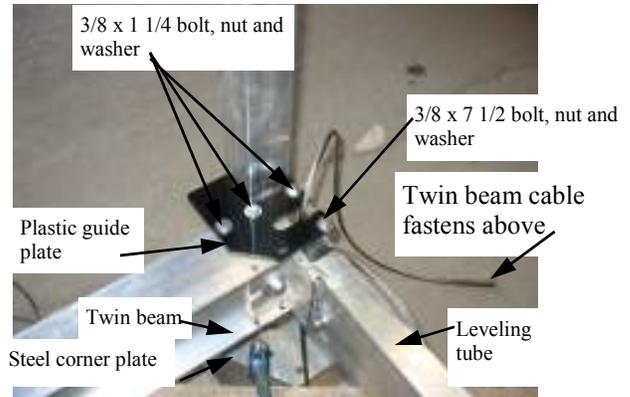
View of winch column. Fasten cable from twin beam below in steel corner plate and bolt plastic guide plate to twin beam top.



3/8 x 7 1/2 bolt, nut and washer

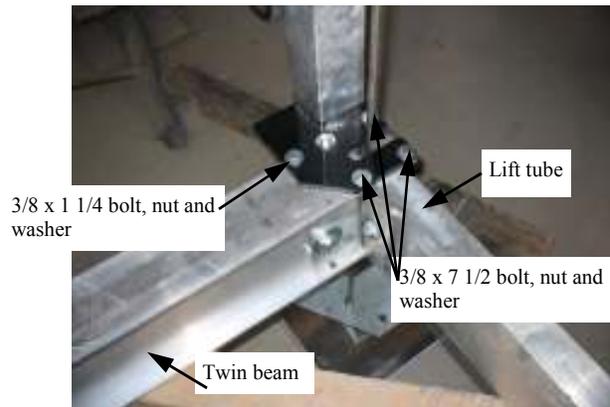
3/8 x 1 1/4 bolt, nut and washer

View column kitty corner to winch. Twin beam cable fastens above. 2-Cable ends in leveling tube. Long threaded end up, short threaded end down. Loosen 3/4" sheave nut to slide through coped clip on leveling tube and retighten. Fasten plastic guide plate to twin beam.

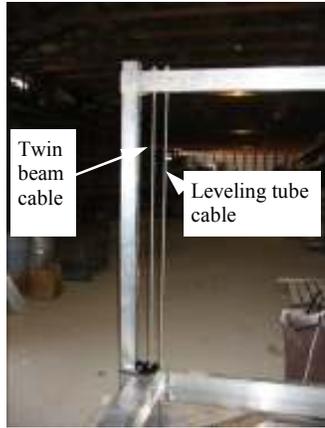


View of winch column across from winch. Bolt plastic guide plate to top of twin beam. Take cable coming out of top of leveling tube and bolt in upper cable tube above with 5/8" lock nut and washer. Same on other leveling tube end. Twin beam cable also fastens in upper cable tube.

NOTE: All upper cable connections require 5/8" lock nut and washer. No washer required on below steel corner plate connections.

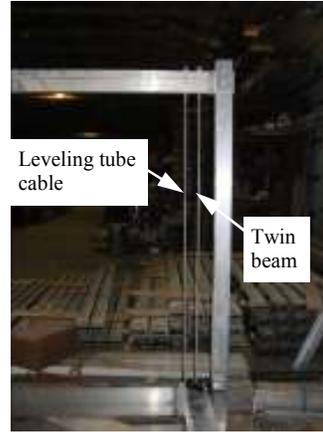


View of column rear of winch column. Cable in lift tube fastens above with long 5/8" threaded fitting with 5/8" lock nut and washer. Twin beam cable fastens below. Loosen 3/4" nut on twin beam sheave bolt, slide coped angle on lift tube over and retighten. Fasten plastic guide plate to twin beam.



View of column across from winch column.

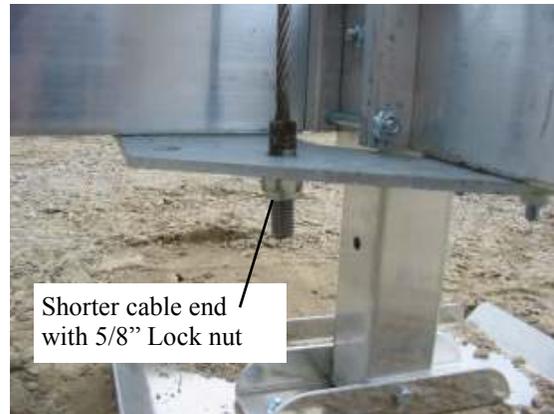
DO NOT OVER TIGHTEN CABLES. SHOULD BE A LITTLE LOOSE.



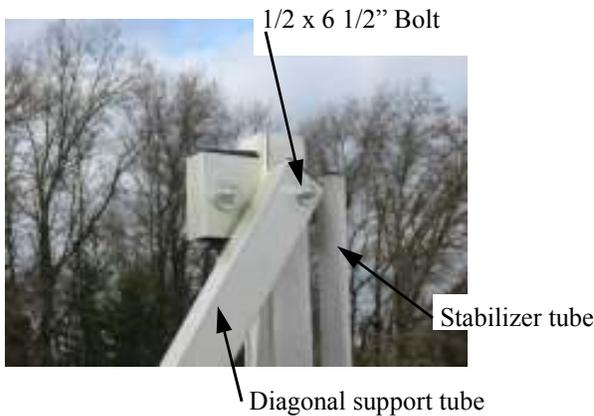
View of column kitty corner to winch column.



View of side opposite of winch.



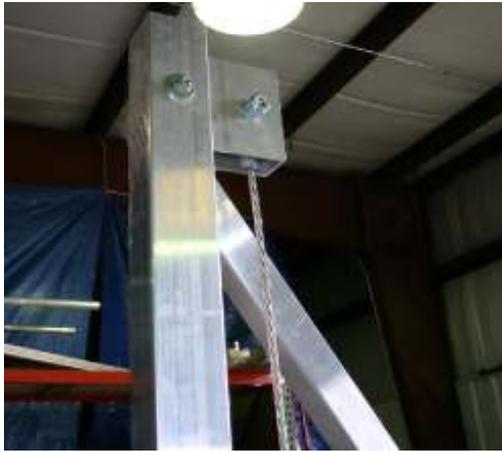
Lower cable end bolted to lower galvanized plate.



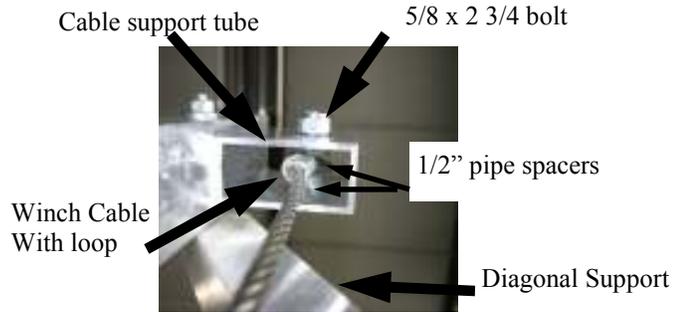
View of column rear of winch column.



Next bolt the stabilizers to hoist. There will be 2-left hand parts and 2-right hand parts. Use 3/8 x 2 3/4 inch bolts on the bottom and 1/2 x 4 1/2 inch bolt on top. Use 1/2 x 6 1/2 inch on winch column.



*View of winch side, winch column opposite.
Viewed from inside of the hoist.*

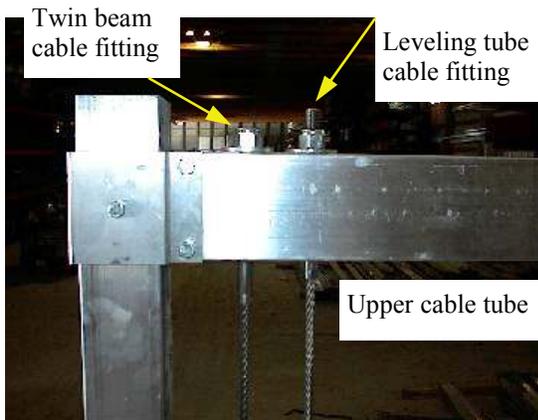


View of winch side, rear corner of hoist.

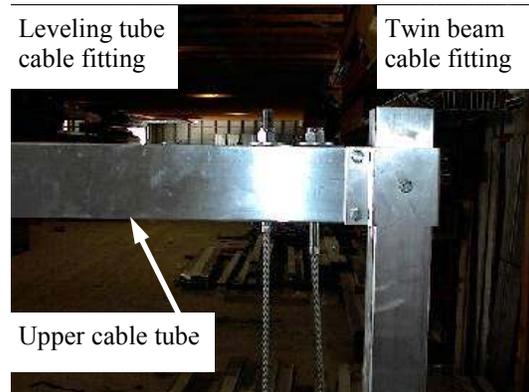
Take the long cable with the looped end coming out of lift tube on the rear of the hoist and put it in the bottom of the cable support tube inserting the 5/8 x 2-3/4 bolt through the loop having a 1/2" pipe spacer each side of the loop end to center cable loop. Install a 5/8 lock nut and tighten.



View of winch end with diagonal support



View of non winch column front side.



View of non winch column front

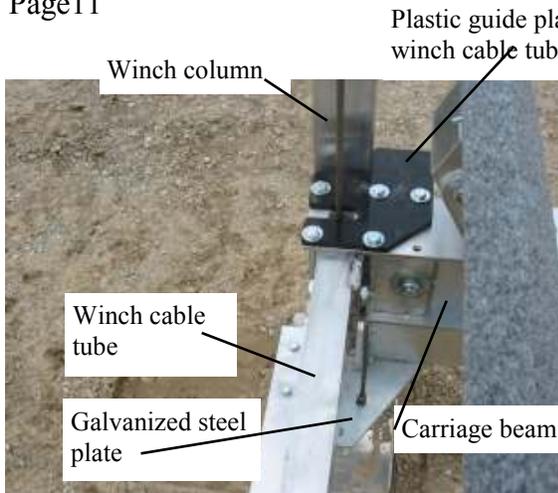
Next take the twin beam long cable fitting ends, if not already done, and attach to upper cable tube with 5/8" washer and nylon insert lock nut. Tighten so cables are not tight but not real slack either. Use the holes on the outer edge of tube. If cables are too tight it will inhibit the hoist to go down freely. Repeat on the other end.

Next 2 pages assembled hoist photos for more help.

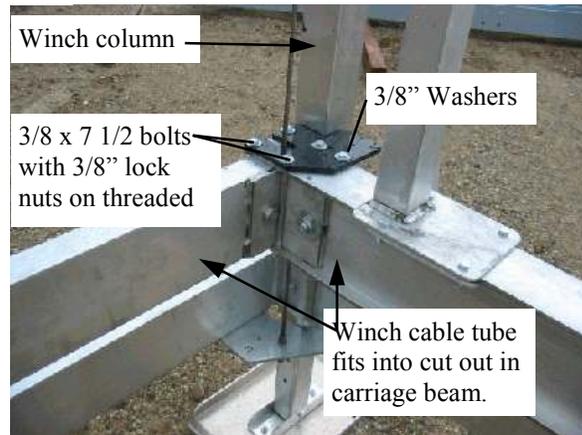
More pictures of assembled 6000 vertical hoist

Note: All shorter cable ends attach to galvanized steel plates on lower hoist frame.

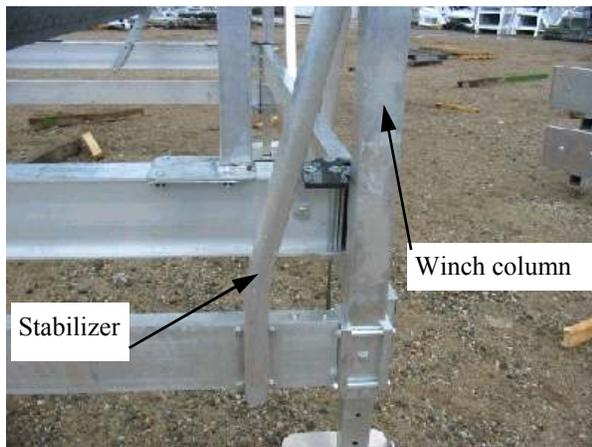
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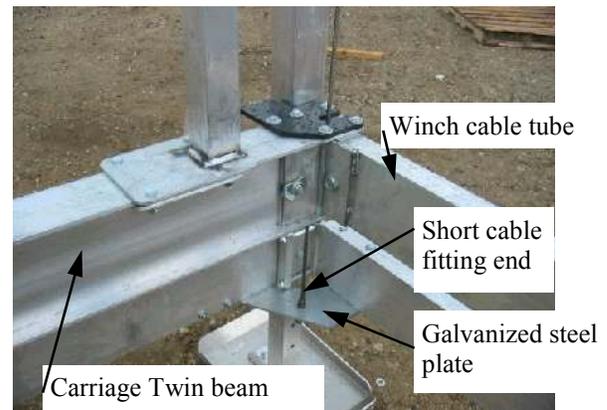
View of winch column area carriage connection showing aluminum spacers between beam flanges



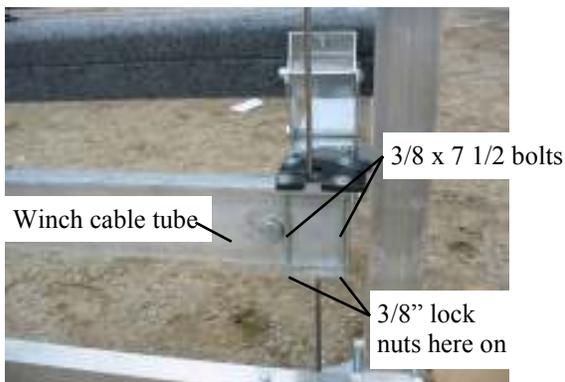
View of winch column and lower galvanized steel plate with carriage tube cables attached with shorter threaded fitting.



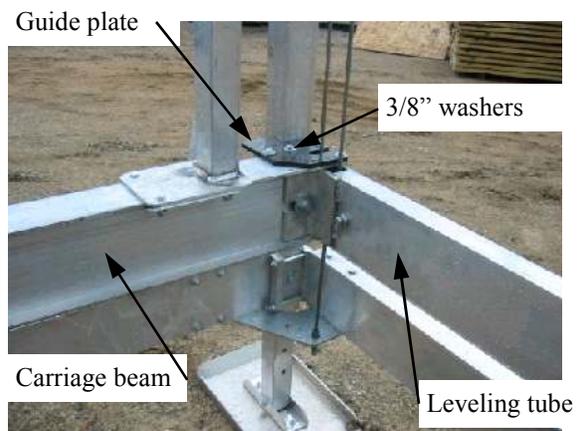
Outside front view of winch column.



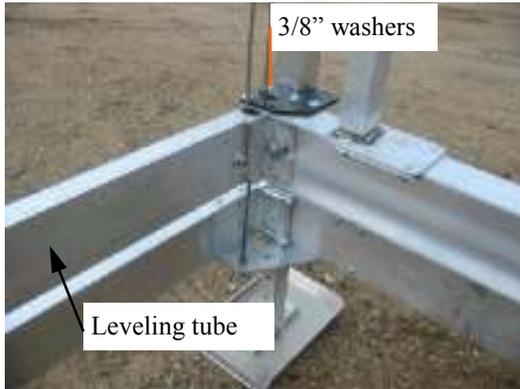
Rear side of winch column corner. Showing cable fitting short end.



View of winch column opposite (same side as winch column rear side) from outside of hoist.



View of column across from winch column. All bolts holding guide plate 3/8" x 1 bolts.



Top view of column kitty corner to winch column. All bolts holding guide plate are 3/8" x 1.



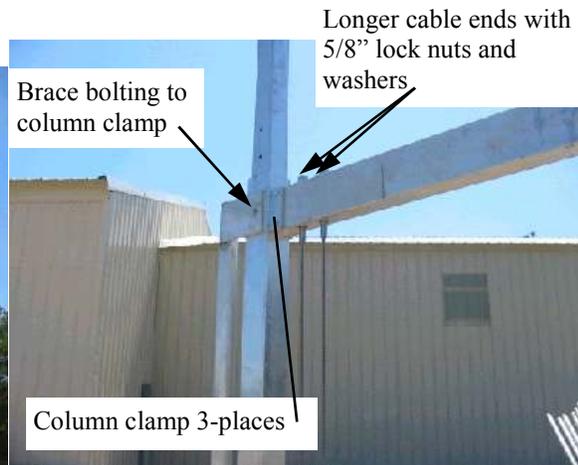
View of assembled hoist



Lower cable end bolted to lower galvanized plate.



View of upper tube kitty corner to winch side showing cable with lock nuts and washers.



View of upper tube opposite winch side showing cable with lock nuts and washers.



View of winch on column.

O.K. it's time for the winch. Take 2- 1/2" x 4" bolts with 2 -1/2" washers and nuts. Put the bolts through the winch column like above or from the inside out, it 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 9/16" socket on inside and 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.



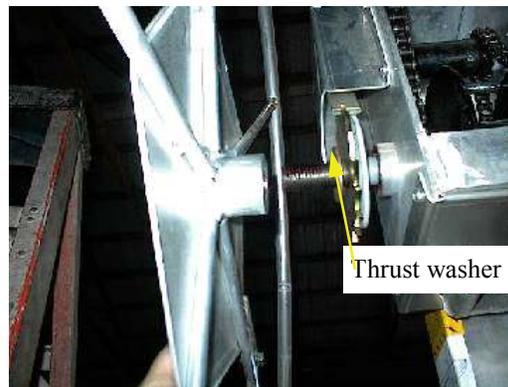
The wheel sticker covers the hole for the winch. The threaded shaft will go through so the sticker needs to be cut out in the hole area.



View of wheel on winch.



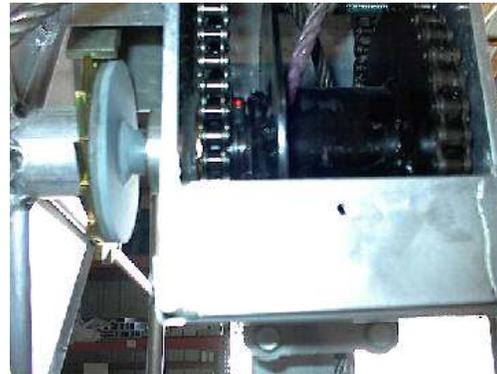
Next, it's a good idea to put a little grease on the threads (often times grease will already be on the threads). Use just enough so the wheel can move on the threads and won't freeze up on them. Corrosion between the shaft and wheel will cause the winch brake to not work properly.



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 here the ratchet paw clicking on the ratchet plate.



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



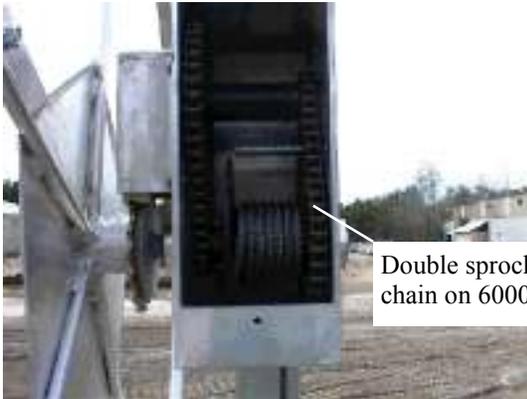
Installing the winch: Take cover off and bolt to winch column with 2 -3/8" x 4 bolts if not already done. Take the winch cable end (end without fitting) and thread through the bottom of the winch and through the hole on the inside of the cable the spool.



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

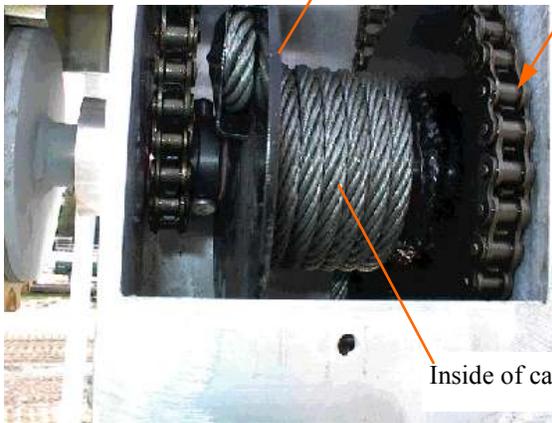


Winch bolted to hoist with wheel assembled. Cable goes through bottom of winch.

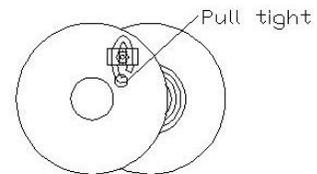


View looking from the out of the 6000 hoist at winch column winch and wheel.

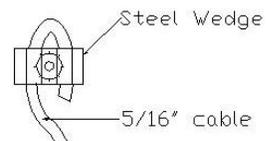
Hole for cable to go through in cable spool



Double chain and sprocket on 6,000 lb lift



Winch Hub



Detail

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.

Safety Precautions!!!

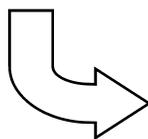
In order to prevent possible injury to both the operator and equipment it is extremely important that the lift wheel is always turned clockwise (clicking of ratchet should be heard) when raising the platform. Close attention should be paid to the decal on the wheel with raise and lower arrows (*clockwise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



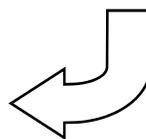
Sticker on wheel

Lower (counter clockwise)

Raise (clockwise)



Lower



Raise

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 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



Column sticker



Wheel sticker



Blow up of sticker (see right) on hoist.

Follow instructions on the hoist stickers and in the manual. Do not disregard.





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 (described sometimes 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 damage neither your boat or hoist.

If for some reason your winch mechanism does not function as described, call your 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**. 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.

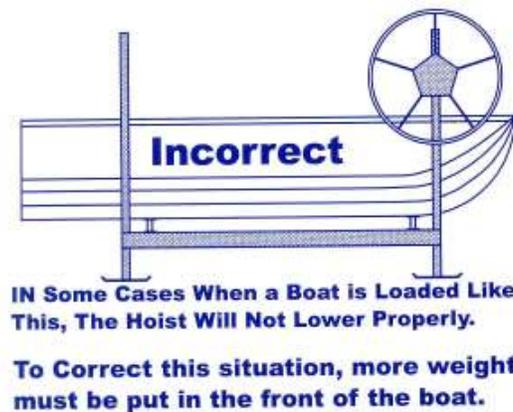
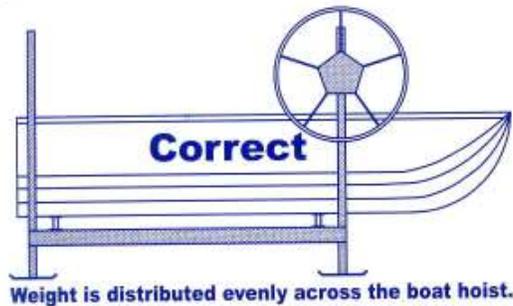


SAFETY PRECAUTIONS

- 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 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 as weight injury could result). When the hoist is down remove the weight and reload load the hoist with better weight distribution.



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
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