

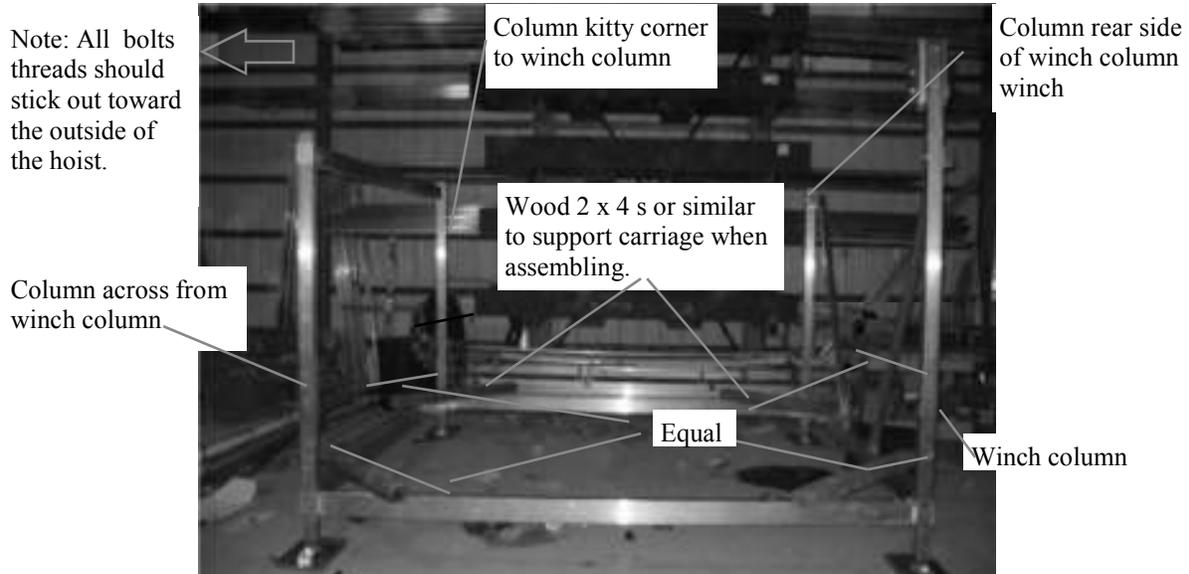
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**4500 lb Vertical Boat Lift manual and pictures for assembly help.**

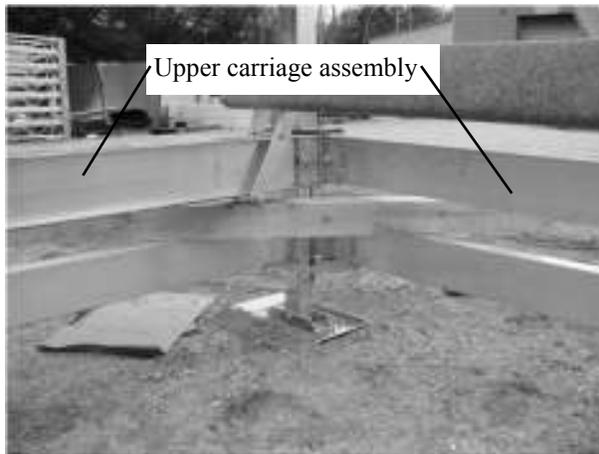


Caution: Cables should not be real tight. Loose enough to shake around a little.

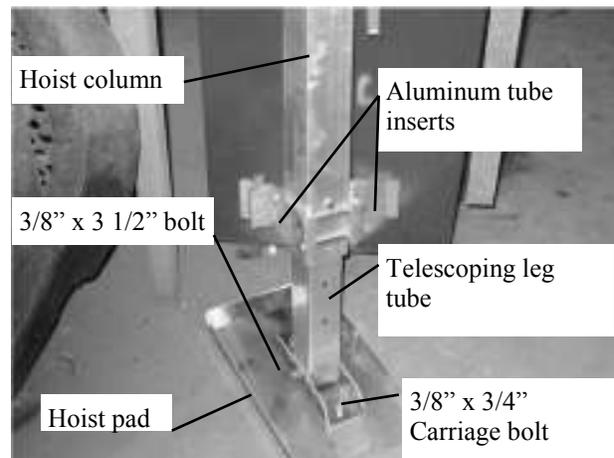
Suggestion: Below after lower frame assembly is done put boards kitty corner on the frame to assemble upper carriage.



It helps when assembling the frame keeping 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.



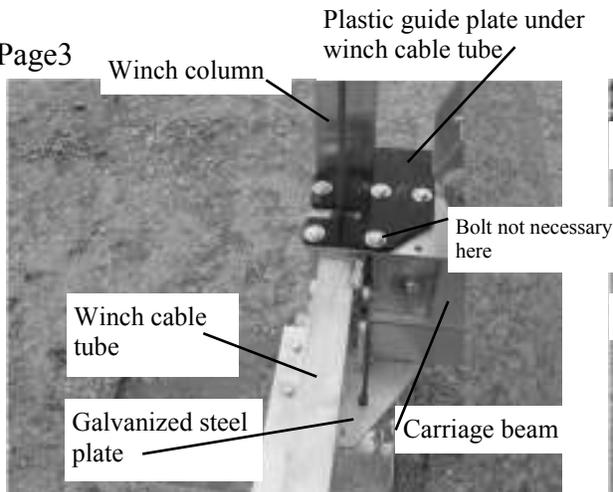
Close up showing wood in the corner of a hoist for upper carriage assembly, used in four corners to help installation.



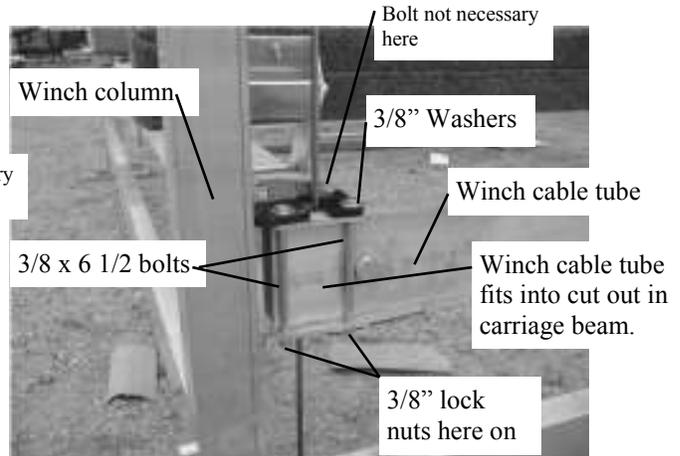
Hoist telescoping leg in hoist column. Aluminum tube inserts pre attached so they can side into lower 5 x 2 tubes making lower frame work.

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

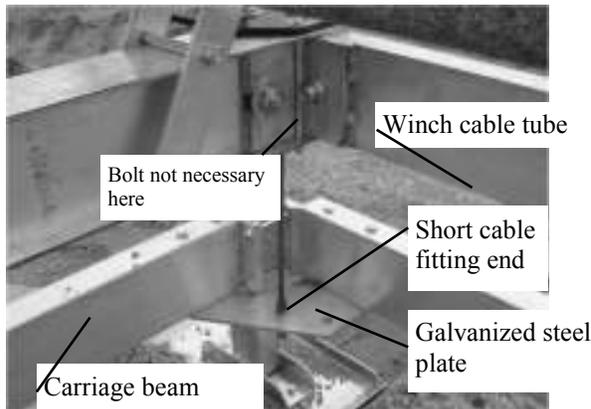
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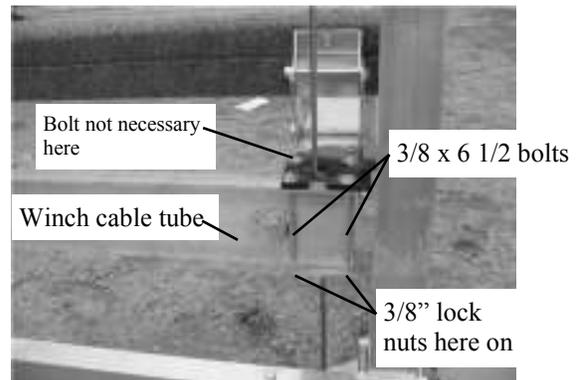
View of winch column area carriage connection showing aluminum spacers between beam flanges



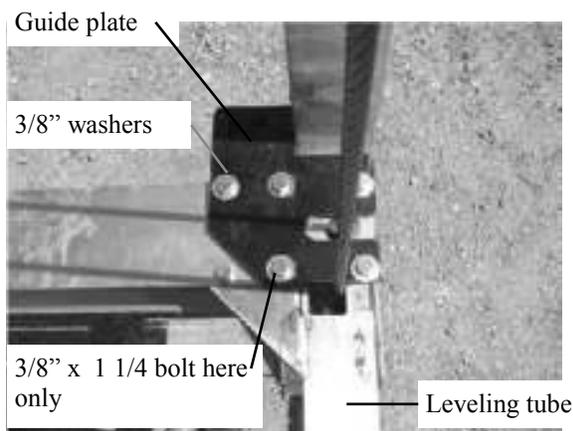
View winch column and lower galvanized steel plate with carriage tube cables attached with shorter threaded fitting.



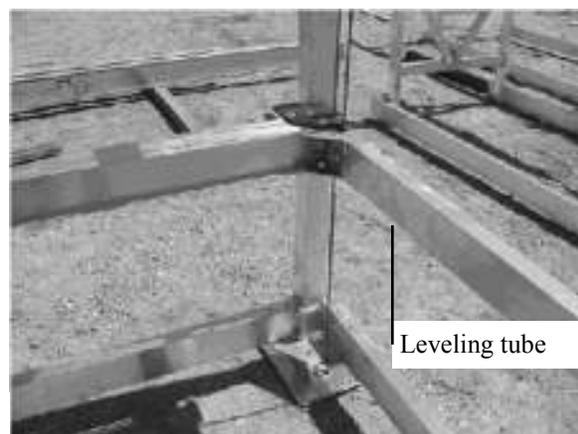
Rear side of winch column corner. Showing cable fitting short end. From carriage beam attached to galvanized steel plate.



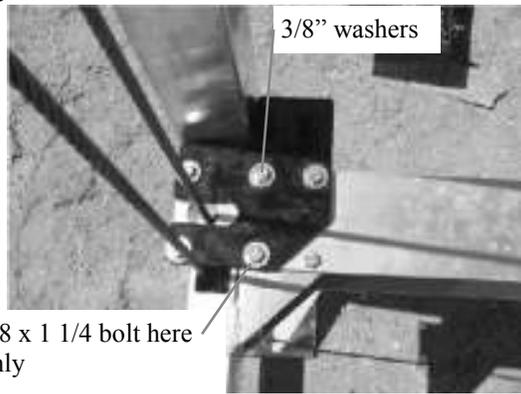
View of rear column, same side as winch column.



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

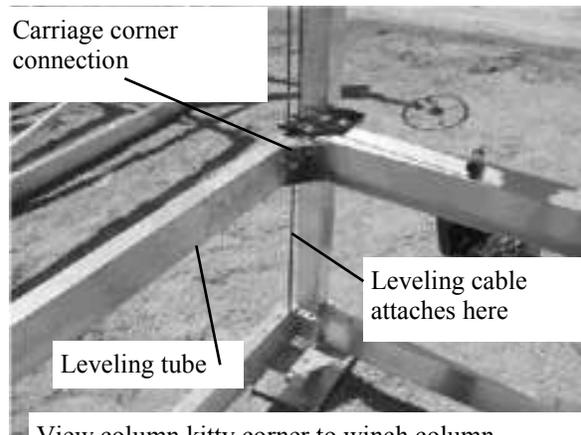


View of column across from winch column showing lower corner with galvanized steel plate and attached cables for the leveling tube.



3/8 x 1 1/4 bolt here only

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



Carriage corner connection

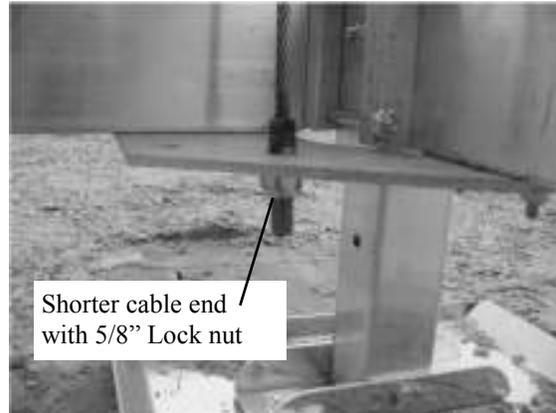
Leveling tube

Leveling cable attaches here

View column kitty corner to winch column showing upper carriage connection and lower hoist frame connection. Lower cable comes from leveling tube and bolts to steel plate.

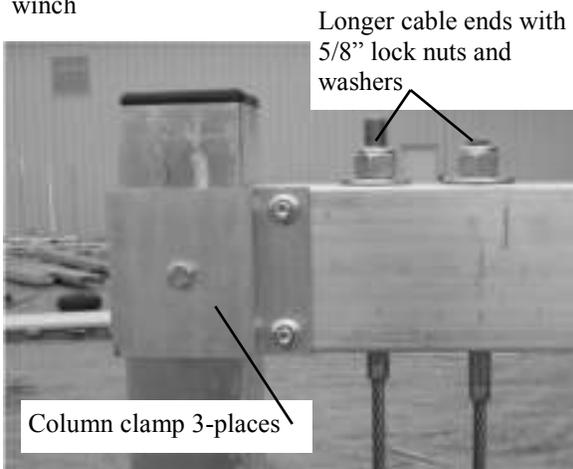


View looking from the front at the side without the winch



Shorter cable end with 5/8" Lock nut

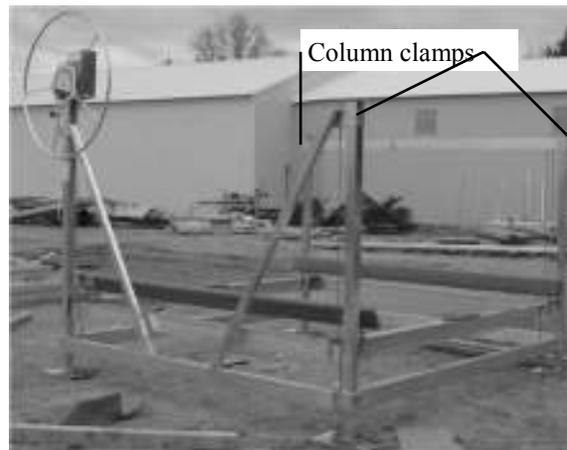
Lower cable end bolted to lower galvanized plate.



Longer cable ends with 5/8" lock nuts and washers

Column clamp 3-places

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



Column clamps

View of assembled hoist.



*View of winch on column.*

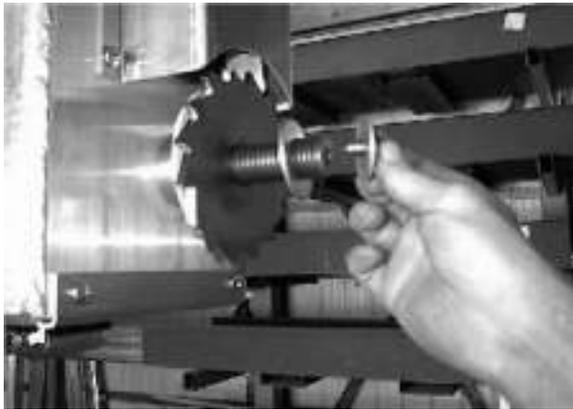
O.K. it's time for the winch. Take 2- 3/8" x 4" bolts with 2 -3/8" washers and whiz nuts. Put the bolts through the winch column like above or from the inside out. Doesn't matter. Line up the bolts with the holes. Use washers on column none required on inside of winch.



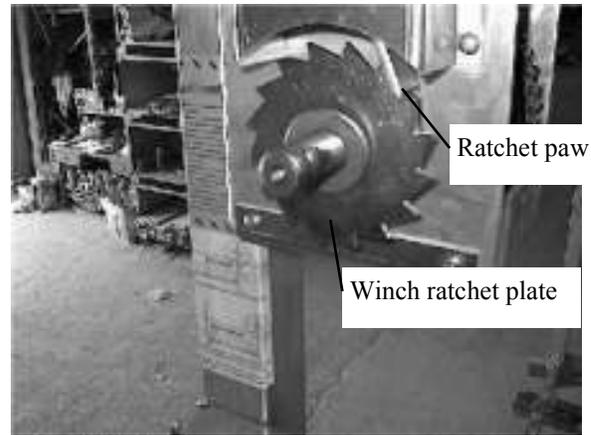
Tighten bolts like above pictures 9/16" socket on inside and 9/16" open end wrench on outside.



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 a open end 9/16" wrench to hold the nut by the knob and tighten the nut on the back side of wheel plate.



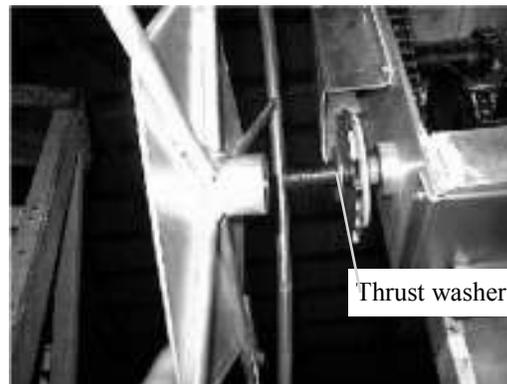
Next take the 3/8" x 1 bolt out of the winch threaded shaft and steel washer. As shown above.



Next it's a good idea to put a little grease on the threads. 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 not to work properly.



Wheel sticker covering also covers the hole for the winch threaded shaft to go through so the sticker needs to be cut out in the hole area.



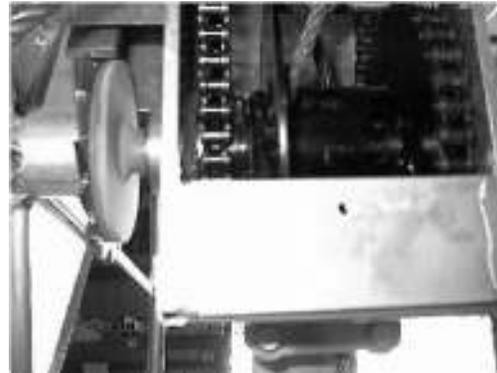
Next lets take the wheel and thread it on the winch clockwise. Thread it on until it comes in contact with the thrust washer. At this point when the wheel turns you should here the ratchet paw clicking on the ratchet plate.



*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 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.

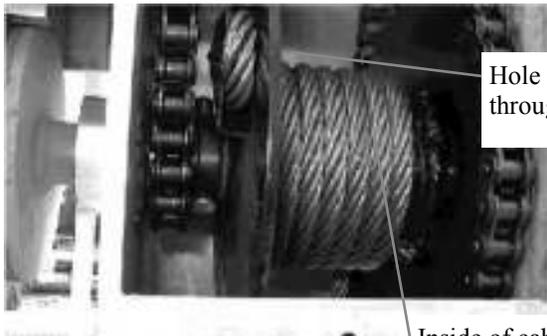


Place the cable wedge in the loop then pull cable tight and lock wedge in tight cable loop



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

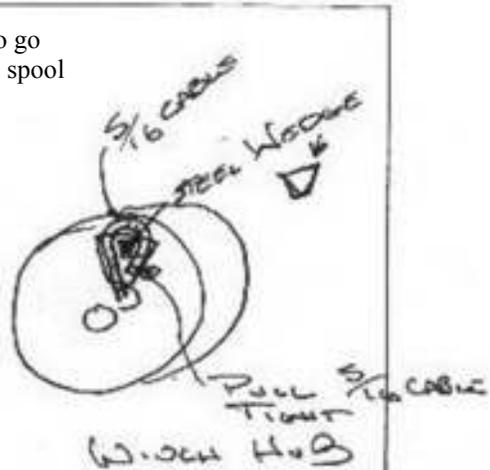
View looking from the front at the side with the winch



Hole for cable to go through in cable spool

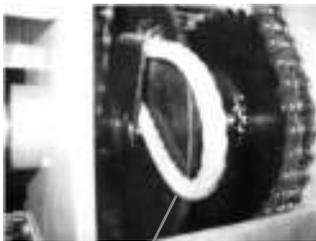
Installing winch. Take cover off and bolt spool column with 2 - 3/8" x 4 bolts if not already. Take the winch cable end (end without fitting) and thread through the bottom of the winch and through the hole on the inside of the cable spool. Pull cable out and make a loop and put the end of the cable in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

Inside of cable spool

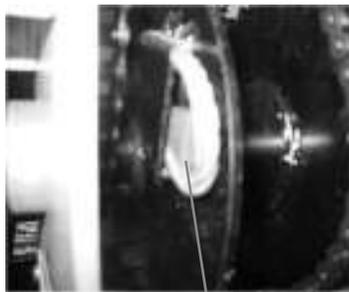


Cable wedge

Cable holder



Loop cable

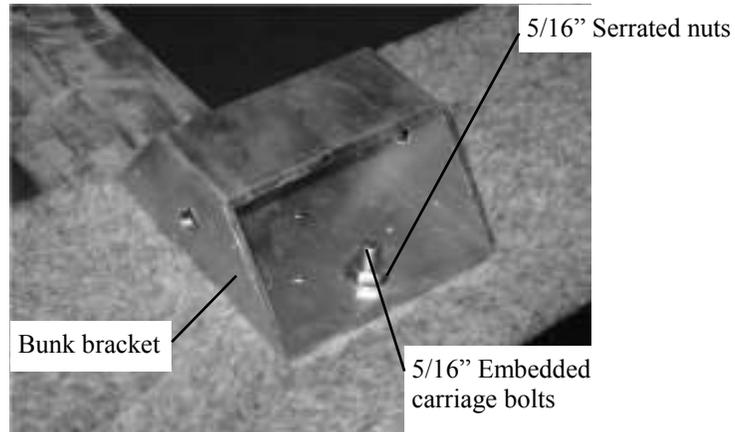


Insert cable wedge

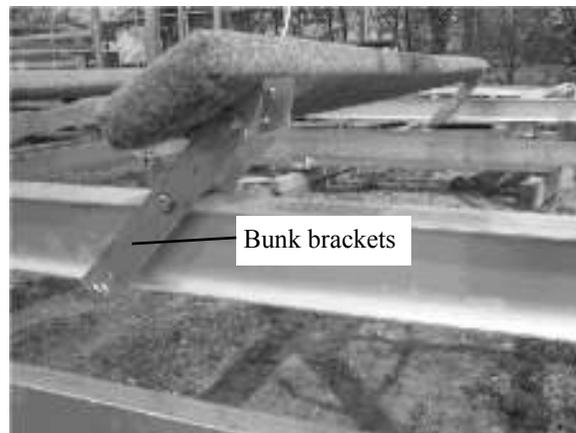
Then pull cable tight through bottom of winch.

DETAIL

## Carpeted bunk photos



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.

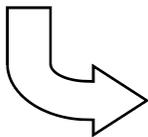
## Safety Precautions!!!

In order to prevent possible injury to both the operator and equipment it is extremely important that the lift wheel is always turned clockwise 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 continue to turn counter clock wise 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.

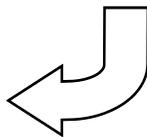


Lower (counter clockwise)

Raise clockwise



Lower



Raise



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.

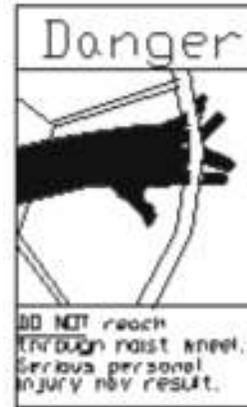
Possible personal injury and or hoist damage may result.

**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



Column sticker



Wheel sticker



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.

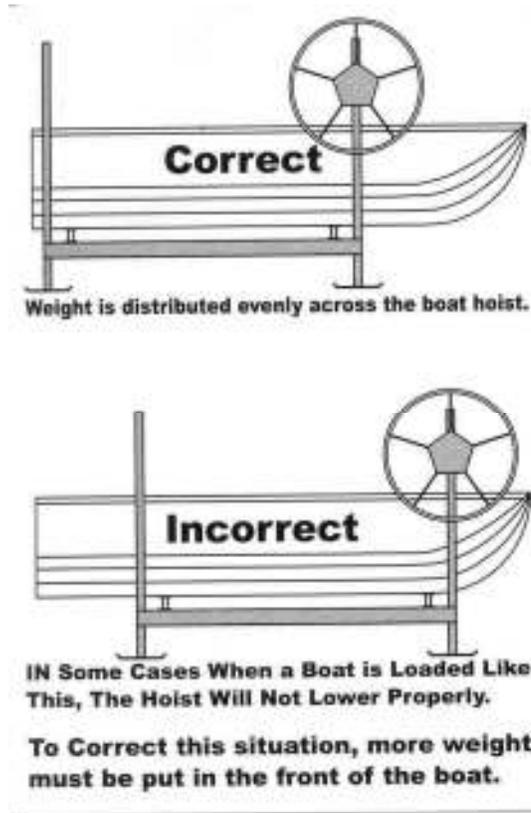
It is recommended that your Craftlander be thoroughly inspected at least once a season. Tighten all bolts. Check all pulleys and make sure they are turning freely. Inspect all cables for fraying, wearing or deteriorating. If any signs appear, replace cables. Check frame thoroughly. Grease the winch drive 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 with is applied to our hoists if your is not ledge able be contact your Craftlander dealer for a new one.





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 of the hoist it may cause the lift not work properly going down. The lift may bind and only one end 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 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 5-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 5 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