

# **CANTILEVER BOAT LIFT ASSEMBLY MANUAL**



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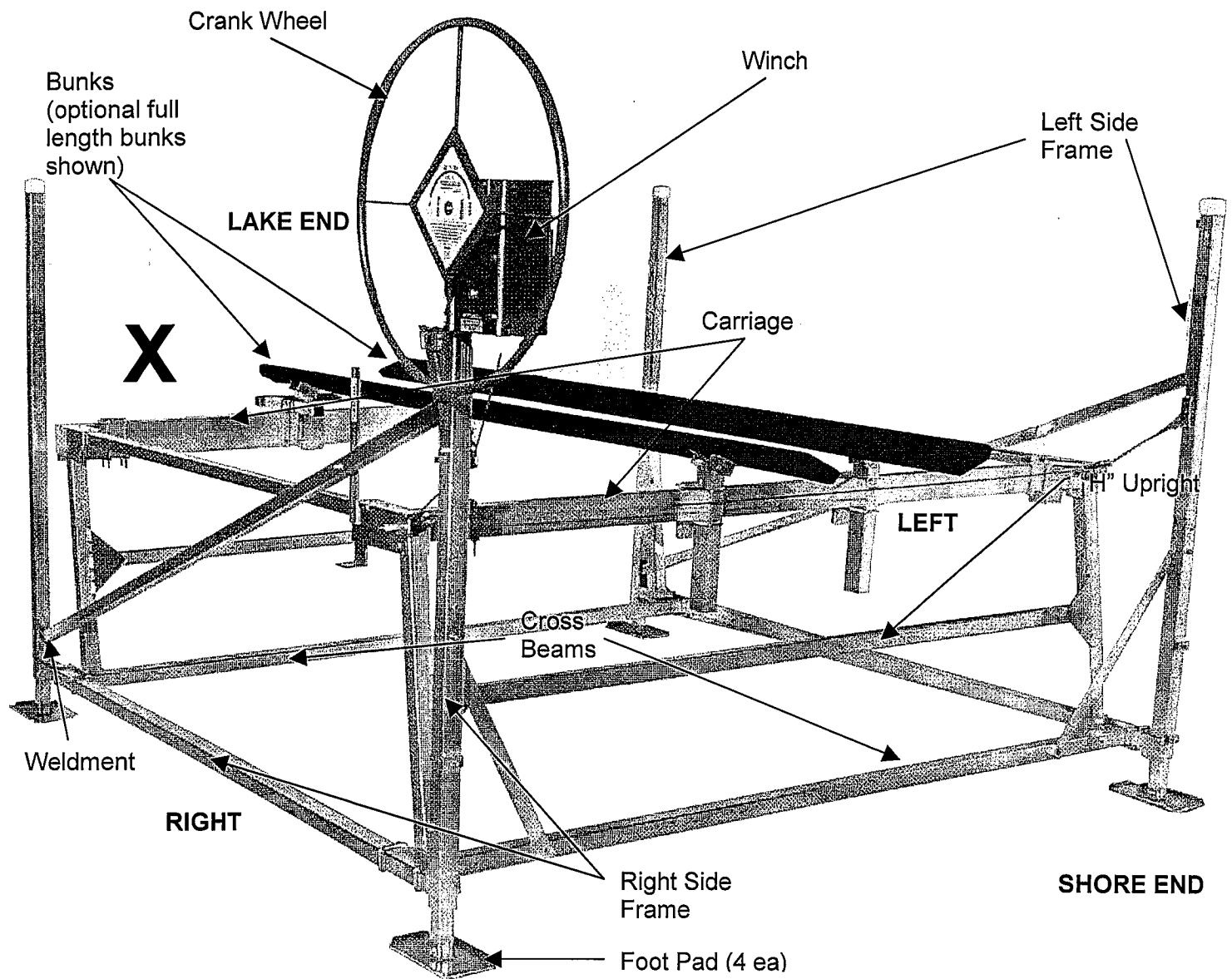


FIG. 1

**TIPS ON HOW TO SPEED UP YOUR ASSEMBLY**

It is recommended to review the parts identified in FIG. 1 before proceeding with the assembly instructions. **A good understanding of part names and shapes will greatly speed the assembly process.**

Note the "X" in FIG. 1 at the lake end of the lift. If a left or right direction is given in the instructions, it is given from this position, as if you were driving a boat onto the lift.

Also note the terms "Lake End" and "Shore End" (See FIG.1). These two terms will also be used as directional tools. When the assembled lift is placed in the water, the shore end of the lift will be closest to the shoreline.

**EXAMPLE OF USING LEFT/RIGHT AND SHORE END/LAKE END IN ASSEMBLY STEPS.**

During the side frame assembly step, you would want to take a minute before completing the step and make sure that you are positioning your parts correctly as to shore end/lake end. Also look at the photo for positions of weldments and brackets for positioning as to left/right. This would be accomplished as follows: Locate the two side frames in FIG. 1. There is a right side frame and a left side frame. Note their shape in relationship to lake end vs. shore end. Also note that on lake end of the right and left side frame, there is a triangular shaped weldment located on the *outside* of the part. Once you understand the correct position of the part, then proceed to assemble it. In summary, **Take a minute before and after each step View the position of parts as shown in photos compared to your assembly. This will eliminate mistakes and greatly speed up your assembly process.**

## UNPACK ITEMS

Locate a level surface and unpack items from truck/trailer. Review part identification in FIG. 1 on preceding page. Do not proceed with assembly until you have a good understanding of part identification.

## ASSEMBLE SIDE FRAMES AND CROSS BEAMS

1. Connect the shore end cross beam (See FIGS. 2, 3, 4) to the left side frame. Note position of shackle on cross beam (See FIG. 3). The shackle should face the lake end of the lift (See FIG. 3). Note the weldment on the inside edge of each side frame (See FIG. 3, 4). The crossbeam needs to be positioned against the weldment as shown in photos. Firmly tighten in place using 2 each 3/8" U-bolts, and 4 each 3/8" flange nuts. Note: Assemble the U-bolt with the nuts and washers on the inside of the side frame.

Note: There are several extra holes on the cross-beams and side frames. These holes are located throughout the lift to allow the lift to fill with water.

2. Connect the other end of the shore end cross-beam to the right side frame as described in the previous step.
3. Connect the lake end cross-beam to the left and right side frames using the procedures outlined in steps 1 and 2 for the shore end cross beam (See FIG.2).
4. Firmly tighten all flange nuts on the shore end and lake end cross beam U-bolts.

FIG. 2

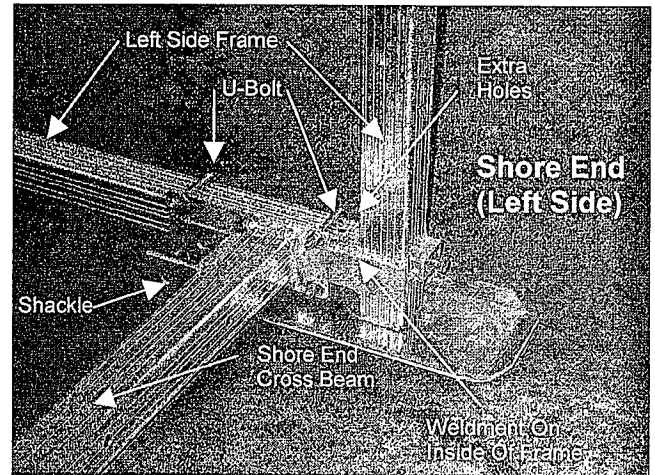


FIG. 3

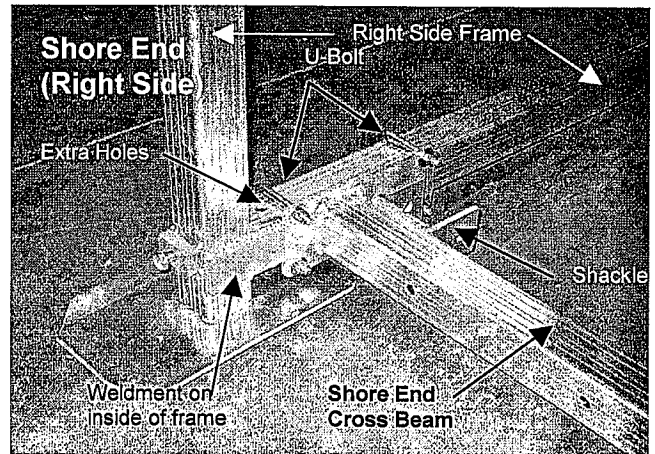
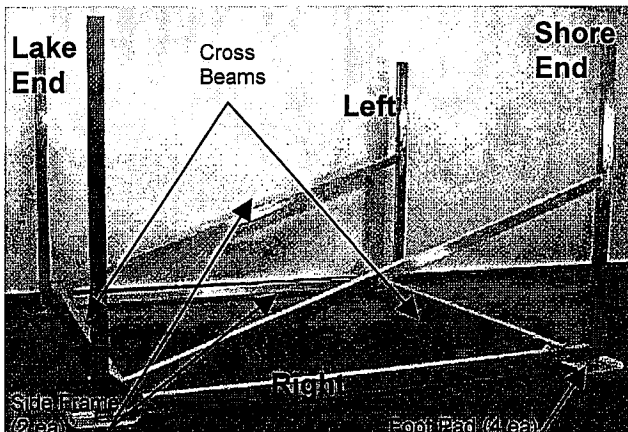


FIG. 4



## ATTACH "H" UPRIGHTS

Note: From the previous steps, the shackles on both cross beams should be facing towards the lake end of the lift. Reassemble if needed before attaching "H" uprights.

1. Locate one of the 2 "H" uprights (they are identical). Attach one upright to the shore end cross beam shackle as follows (See FIG.5, 6, 7, 8, 9). Slide the plastic bushing into the sleeve on the "H" upright as shown in FIG. 6. Place the "H" upright into the shackle and slide the clevis pin through the shackle and bushing (See FIG. 7). Then install the locking ring into the hole on the end of the clevis pin (See FIG.8 and 8A). Repeat the above procedures on the other side of the shore end "H" upright.
2. Attach the lake end "H" upright to the lake end cross beam using the same procedures in preceding step.

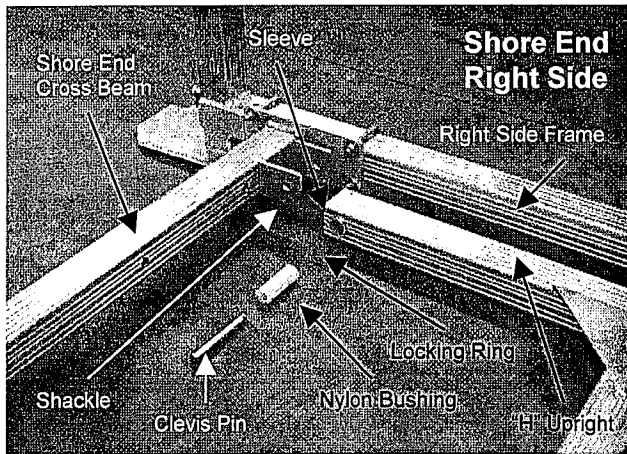


FIG.5

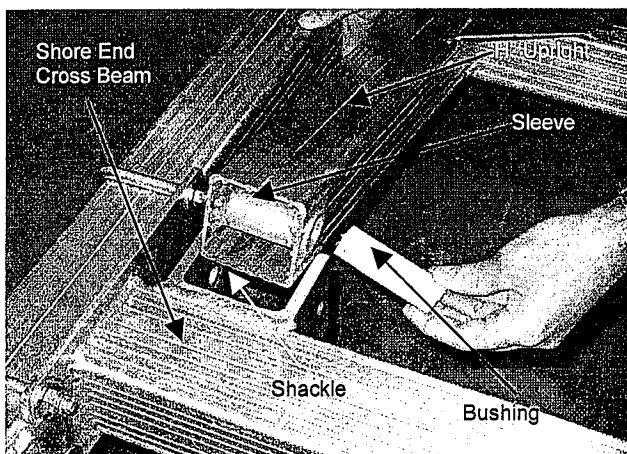


FIG.6

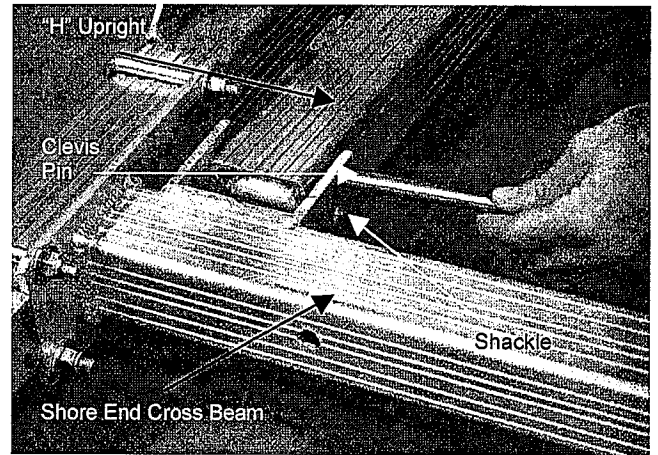


FIG.7

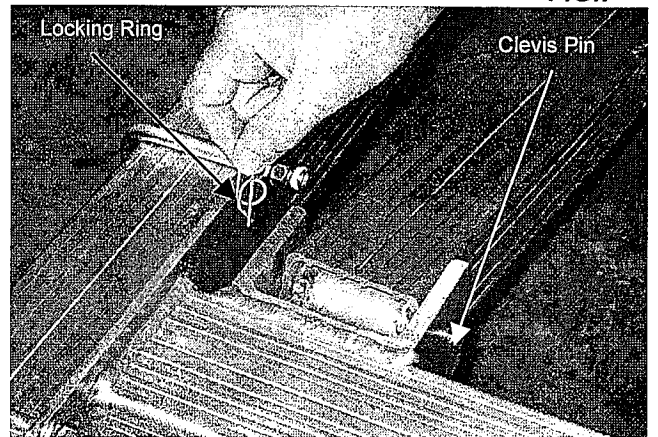
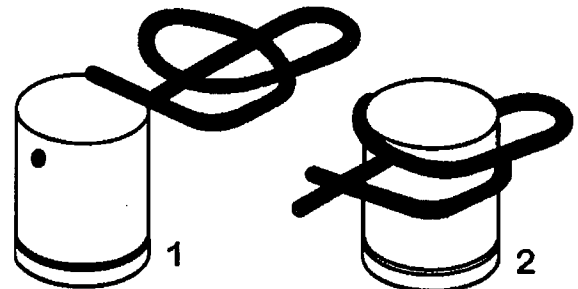


FIG.8



How Locking Ring Installs On Clevis Pin

FIG.8A

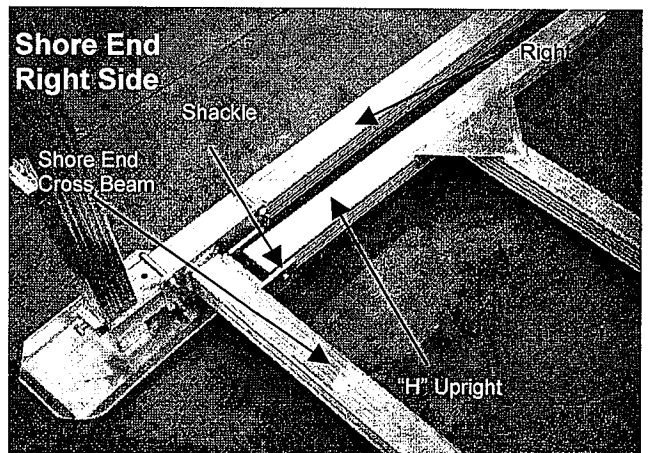


FIG.9

## ATTACH CARRIAGE CROSS BEAMS

1. Locate shore end carriage cross beam (See FIG.11). The shore end carriage cross beam has the angle stop (See FIG.11). Mount the shore end carriage cross beam onto shore end "H" upright as follows: Slide the white plastic bushing into the sleeve on the top end of the "H" upright (See FIG.12,13). Place the end of the "H" upright in line with the lower hole on the shore end carriage cross beam and slide clevis pin through the bushing and bottom hole on the shore end carriage cross beam. Place the locking ring through the hole on the end of clevis pin (See FIG.13, 13A).
2. Repeat the previous step on the other side of the shore end carriage cross beam.
3. Repeat the previous steps on the lake end carriage cross beam (See FIG.11&14).
4. Once both carriage cross beams have been mounted to "H" uprights, install carriage side tubes using four 3/8" or four 1/2" hex bolts and four flange nuts per side tube (See FIG. 14 and 15). Repeat on other side.
5. When assembled, manually raise and lower the carriage to ensure that it is firmly attached to the uprights, yet will swing freely on shackle pivots. Adjust accordingly if necessary.

Note: Always mount your clevis pin with the clevis pin bolt head on the outside of the frame and the locking ring on the inside of the frame (See FIGS. 12, 13.)

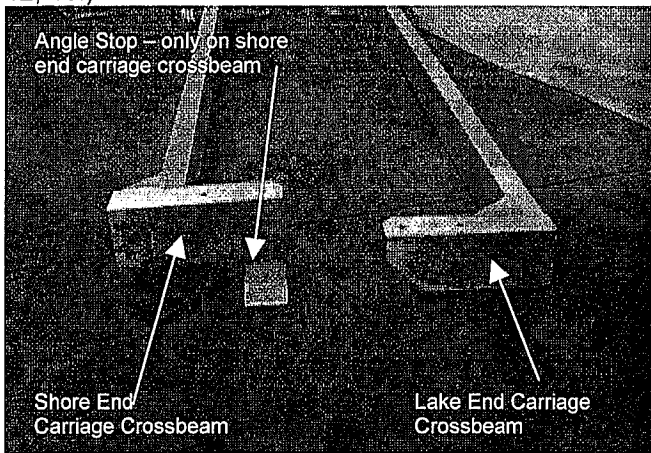


FIG.11

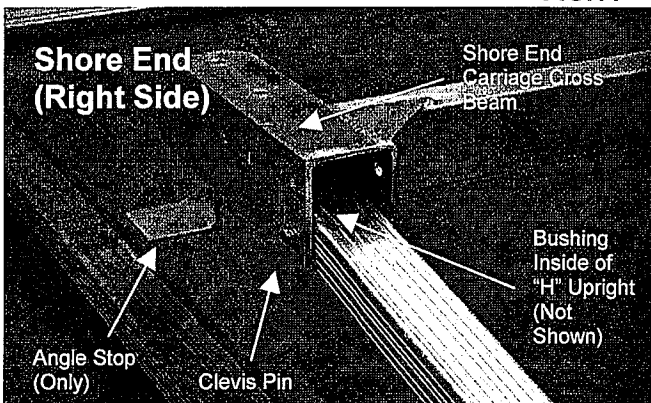


FIG.12

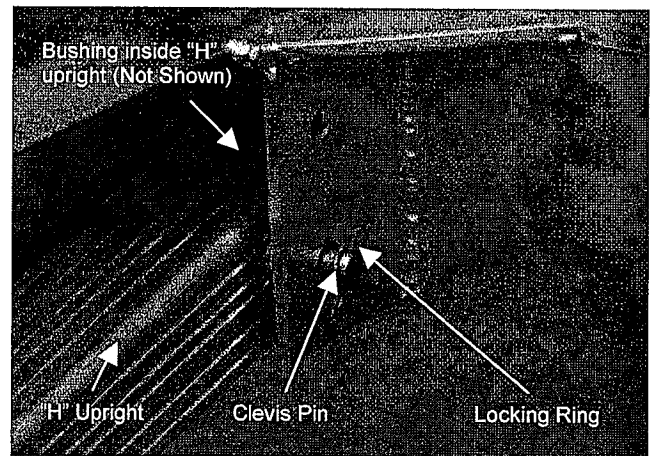
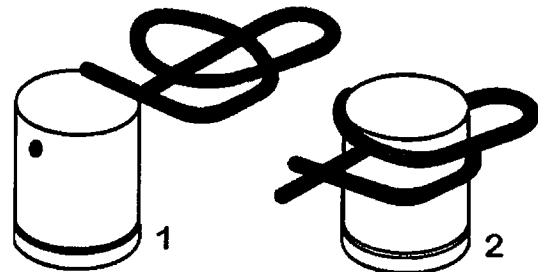


FIG.13



How Locking Ring Installs On Clevis Pin

FIG.13A

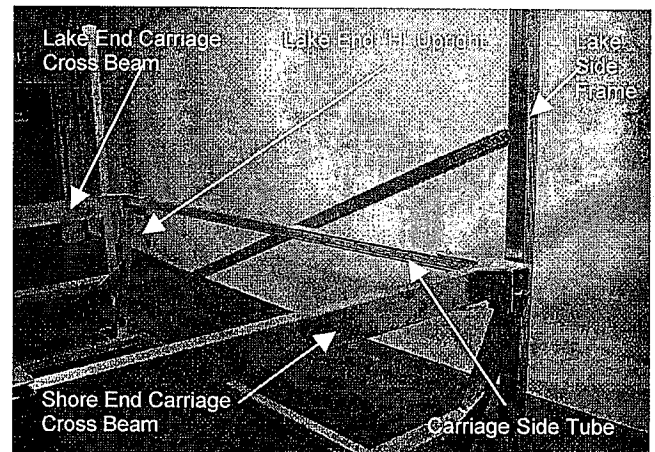


FIG.14

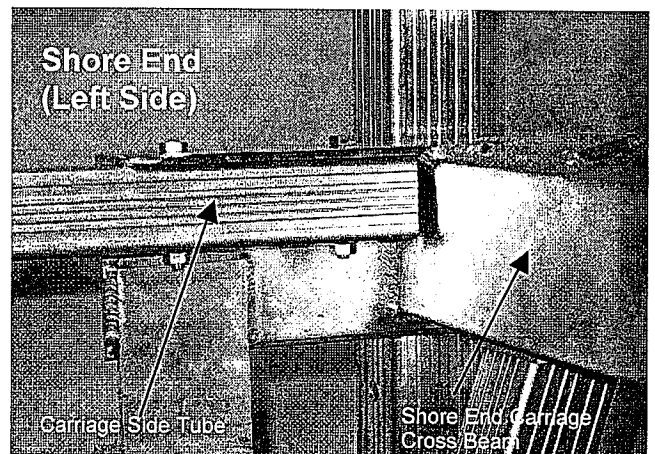


FIG. 15



## INSTALL THE CABLE PULLEY BRACKETS

1. Assemble the pulley block assembly as shown in FIG. 16 and 17.

Note: The hex head bolt and nut that hold the pulley in place should be tightened so that it firmly captures the bronze bushing in the pulley block.

2. Repeat the preceding step on the other corner of the shore end of the carriage cross beam.
3. Locate the side frame leg that the winch is going to be mounted on. Attach the nylon pulley with keeper bracket (See FIG. 19).

Note: Put one flat washer on both sides of the nylon pulley and one flat washer next to nut on outside of frame. Tighten bolt so it firmly captures the bronze bushing between the keeper bracket and the side frame leg.

Note: Photos show keeper bracket with pulley on the shore end right side. Depending on position of lift to your dock you may reverse installation as to what is shown in photos. The keeper bracket with pulley must be installed on the shore leg that the winch is to be mounted on.

4. On side frame opposite of winch, attach keeper bracket (See FIG. 18). This is the area where the cable will be tied off.
5. The keeper brackets on both sides should be installed at a slight angle so that the cable does not rub on the keeper bracket (See FIGS. 18 and 19).

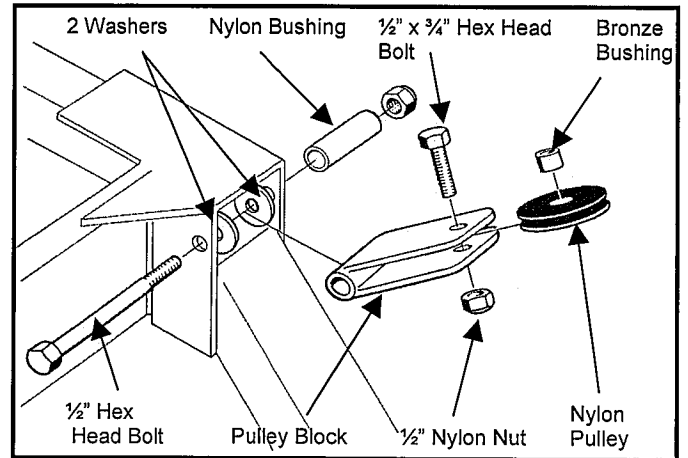


FIG. 17

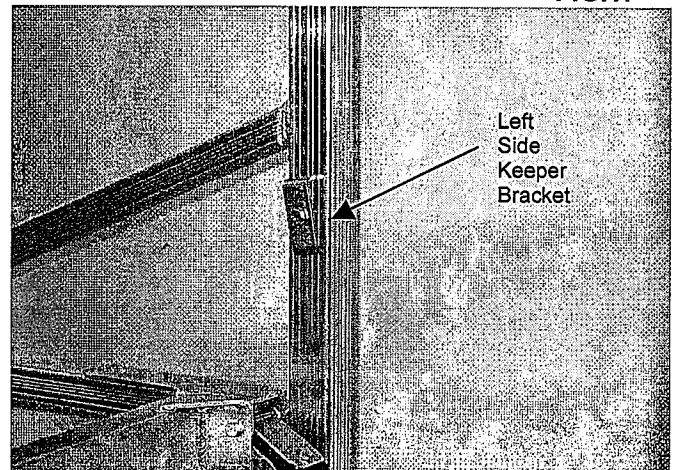


FIG. 18

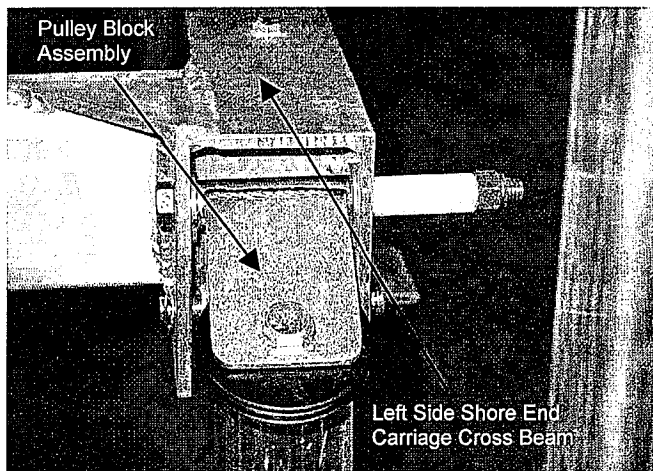


FIG. 16

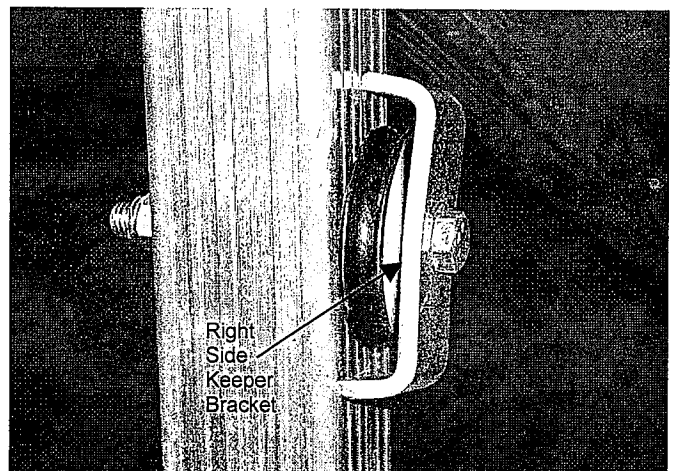


FIG. 19

## INSTALL WINCH

Remove top cover plate and install top U-Bolt with nut onto winch as shown in Fig. 21. Lift winch into position, sliding U-bolt over side frame tube. Tighten nuts on U-bolts. Next, install bottom U-bolt into winch and tighten into position. Re-install top cover plate. Note: Winch always gets mounted on front edge of the side frame (See FIG.23).

## MOUNT CABLE TO CUSTOM CHAIN DRIVE WINCH

Feed one end of cable up through bottom of winch frame and into the hole in cable spool (but not protruding beyond the spool hole). Firmly tighten the cable to the winch spool using a 5/32" allen wrench provided. The setscrew is located through access hole in backside of winch (See FIG 22). You may have to rotate cable spool to line up setscrew with allen wrench. (See FIG. 22).

## MOUNT CABLE TO STANDARD WINCH

Use cable retainer. Follow instructions provided on package (See FIG.24).



FIG.21



FIG. 22



FIG. 23

## INSTALL STANDARD WINCH OR CUSTOM WINCH MODEL 18

Refer to the separate assembly sheet.

### ATTACH WINCH WHEEL

Remove tape protecting the threaded shaft. Mount winch wheel onto the threaded shaft. Firmly lock in place using a 5/16" x 1" bolt, 5/16" lock washer and 5/16" washer (See FIGS. 25, 26).

### INSTALL WHEEL STOP

See separate sheet for assembly & installation instructions.

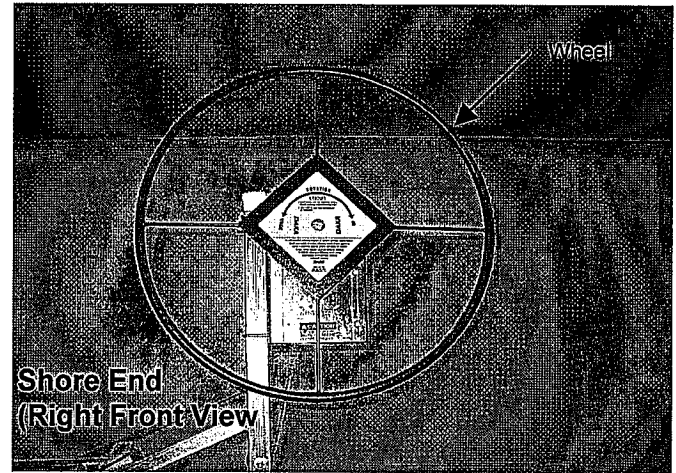


FIG. 26

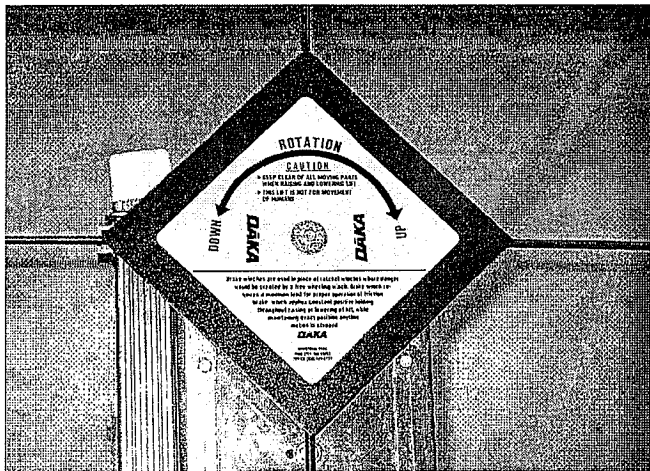


FIG. 25



**THREAD CABLE THROUGH PULLEY BRACKETS**

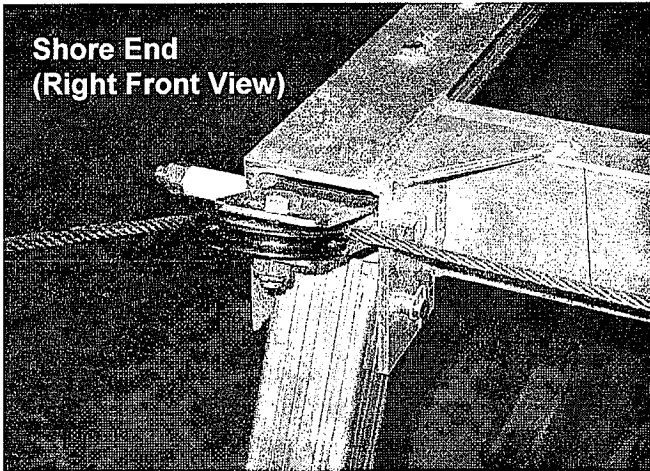
1. One end of the cable has been mounted into the winch assembly. Thread the other end of the cable through the keeper bracket on the right front shore end leg. (The leg with the winch mounted on it) (See FIG.29).
2. Continue threading the cable through the two pulley block assemblies on the front edge of the shore end carriage cross beam (See FIG. 27 & 30).
3. Thread the cable around the keeper bracket (See FIG. 28 & 31).
4. Tie cable off using two cable clamps (See FIG. 28). Always place cable clamps over dead end of cable, and clip saddle over live end (See FIG. 28).

Note: Always place U-bolt over the dead end of cable and the clip saddle over live end of cable (See FIG. 28).

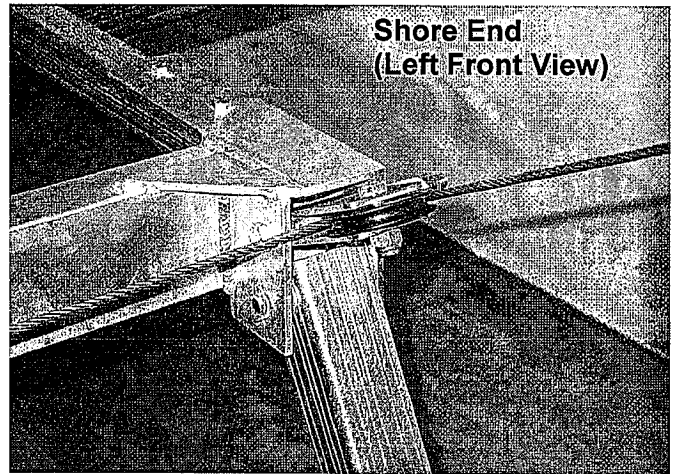
5. Rotate winch wheel until all cable slack has been removed



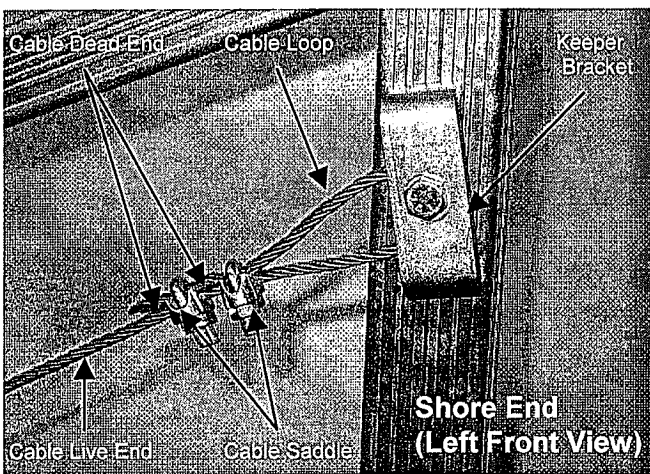
**FIG. 29**



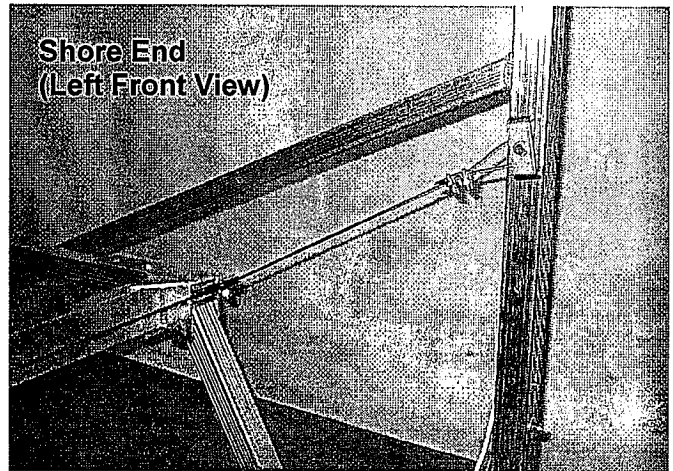
**FIG. 27**



**FIG. 30**



**FIG. 28**



**FIG. 31**

### INSTALL FRONT ANGLE BRACES.

Mount the two front angle braces between the end cross beams and side frames (See FIGS. 32 and 33). The angle braces have 2 mounting holes for either a normal boat lift as shown in FIG. 32 or for a pontoon lift as shown in FIG. 33. Firmly mount using 1/2" carriage bolts, and 1/2" flange nuts.

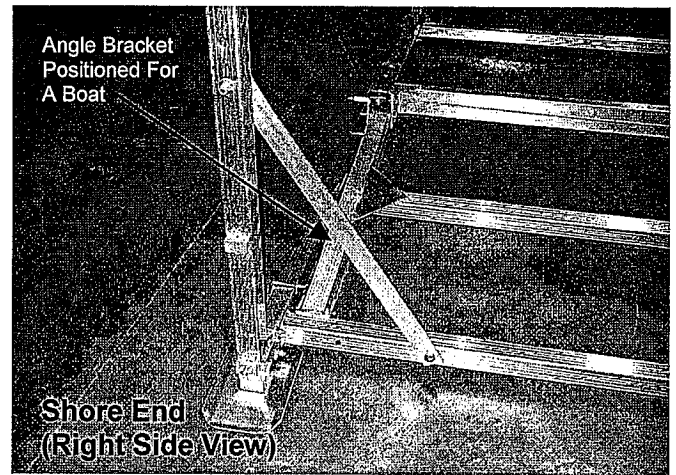


FIG. 32



FIG. 33

## DOUBLE CHECK ALL ASSEMBLIES

Once lift is fully assembled:

1. Double check tightness of all bolts.
2. Fully lower and raise lift.
3. Make sure the boat carriage hits stops.
4. Check top bolt on bunks, make sure that they are loose enough to allow the bunks to pivot.
5. Correct all problems before placing lift in water.

## LEVELING FOOTPADS

A leveling footpad has been mounted at the factory in each of the 4 corners of the lift. The footpads are locked in position by the leg set bolt. (See FIG. 37). The set bolt is mounted in the lower position at the factory. This position is for deeper water installations. The upper position is for shallow water installations. Remount the set bolt if required for your installation. (See FIG. 37).

## INSTALL BUNKS

Refer to the separate assembly sheet.

## PLACE LIFT IN LAKE

Place lift in lake and complete the following steps:

1. Place lift in a minimum of 30" of water at lake end of lift.
2. Level the lift by adjusting the footpads accordingly.
3. Readjust bunk height and position on carriage to match boat bottom.

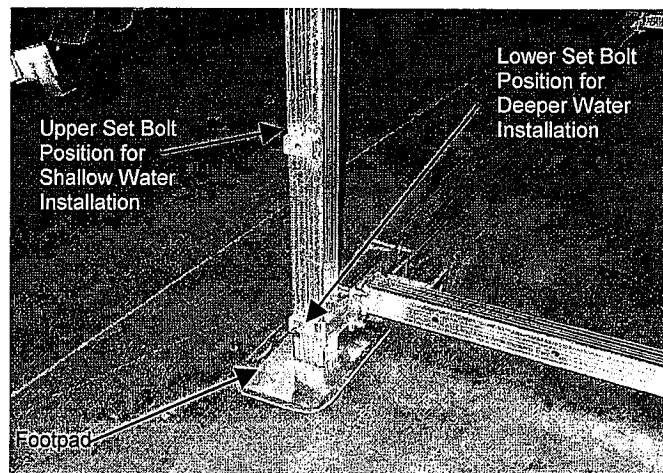


FIG. 37

**⚠ Caution:**

**Do Not Exceed Maximum Lifting Capacity!!**

**⚠ Caution:**

**Do Not Enter Boat When In Raised Position!!!**  
**Lower Boat Lift Before Entering Boat!!!**

**⚠ Caution:**

**Do Not Let Children Play On Or Around Lift!!**

**⚠ Caution:**

This product is not a toy. It is capable of lifting very heavy objects. The lift should be respected as power equipment. High forces are created when using a lift, creating potential safety hazards. Never allow children or anyone who is not familiar with the operation of the lift to use it.

**⚠ Caution:**

Not for moving of humans. This product is not a hoist. Never use in application where persons could be positioned on or under the load.

**⚠ Caution:**

Keep the lift area free of all persons. Never stand between load and lift.

**⚠ Caution:**

Keep hands and fingers clear of all moving parts.  
(i.e. winch, crank wheel, cables)

Boat lift should be placed in a minimum of 30" of water at lake end of the lift.

**- Maintenance -**

Before installing lift in the spring and after removing lift in the fall, lightly oil cables and pulleys. Check all cables and bolts for deterioration. Replace if necessary.

**Note:** If winch wheel is hard to turn when trying to lower lift, place hand on winch wheel and quickly jerk wheel in a counter clockwise direction to loosen brake mechanism.

## LIMITED WARRANTY

DAKA Corporation warrants its boat docks and boat lift components purchased new by the original owner to be free of defects in material or workmanship, from the date of sale for the periods of time set forth below:

New DAKA built aluminum boat docks and lifts carry a 15 year conditional warranty on all aluminum and aluminum welds, and a 5 year pro-rated warranty on canopy tops, excluding fading.

New DAKA built steel boat docks carry a 10 year conditional warranty on steel and steel welds. There is no warranty on paint and/or finish.

DAKA Corporation further warrants all other parts, excluding wood, used on DAKA built lifts, boat docks and accessories, purchased new by original owner, to be free from defects in the material and workmanship under normal use for a period of 24 months from the date of purchase (excluding components and options which carry their own manufacturer's warranty, wherein that warranty will apply). Excluded from this warranty are all paint and/or finishes, and wood decking. There is no other express warranty. DAKA Corporation is not liable for incidental or consequential damages or injuries of any kind due to installation, removal, use, misuse, snow or ice, electrolysis, severe weather, acts of God, misapplication, or improper selection of one of our purchased or displayed products. DAKA agrees to repair or replace only defective parts returned to the factory (prepaid) and deemed defective by DAKA. Warranty is void when misuse or neglect is the cause. Specifications are subject to change without notice.

DAKA is not responsible for removal, dismantling or reinstallation cost. This warranty is void if the boat lift or dock is used in other than normal residential service, or installed in salt water. *For commercial boat dock and lift warranty, see Commercial Warranty.*

For services under this warranty, contact selling dealer or DAKA Corporation, Customer Services Department, 955 Industrial Street, N.E., Pine City, Minnesota 55063; Telephone (320) 629-6737.

Implied warranties including that of merchantability are expressly limited in duration of this warranty. DAKA Corporation disclaims any liability for incidental or improper selection, removal, use, misuse, misapplication, neglect or improper selection of our product. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages so this limitation and exclusion may not apply to you.

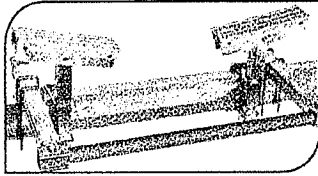
This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This is our exclusive written warranty.

Effective 09/03  
Revision 1: 11-1-07

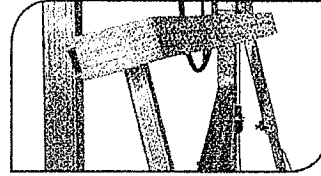


## Lift Accessories



### Motor Stop

The adjustable Motor Stop helps land the boat perfectly every time, so the weight is centered on the lift carriage. (2015)



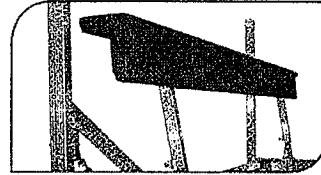
### Vinyl Guide-ons

Full-length Vinyl Guide-ons center a boat as you drive onto the lift, while providing a non-marring vinyl surface that protects the boat from the lift uprights. (2075)



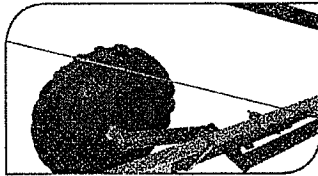
### Stationary Wheel Kit

Add a bolt-on Stationary Wheel Kit to make moving your lift easy. Just clamp the polyethylene wheels to the lift frame. (2020)



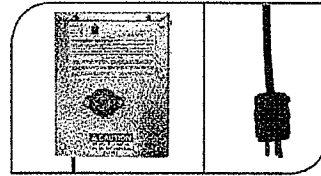
### Carpeted Guide-ons

Protect your boat from damage by the lift uprights with Full-length Carpeted Wood Guide-ons that keep the boat centered as you drive on. (2075WC)



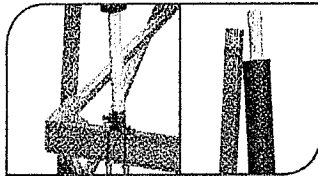
### Lifting Wheel Kit

Installation is made simple with a Lifting Wheel Kit. Polyethylene wheels attach to the cantilever lift frame without inhibiting the lift carriage. (2022)



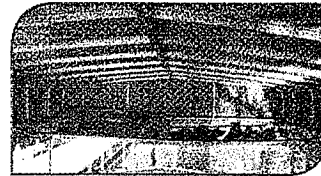
### Electric Lift Motor

Eliminate the manual labor of raising and lowering a lift by adding the 12V or 110V Electric Lift Motor to do the cranking for you.



### PVC Guide-ons

Land a boat perfectly with foamed-covered PVC Guide-ons. Even in rough water, guide-ons align your boat over the bunks and guide it into place. (2070)



### Canopy Cargo Net

Avoid the clutter of water toys and equipment. Add a Canopy Cargo Net to stow and protect skis, ropes and lifejackets. (2090/2095)



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