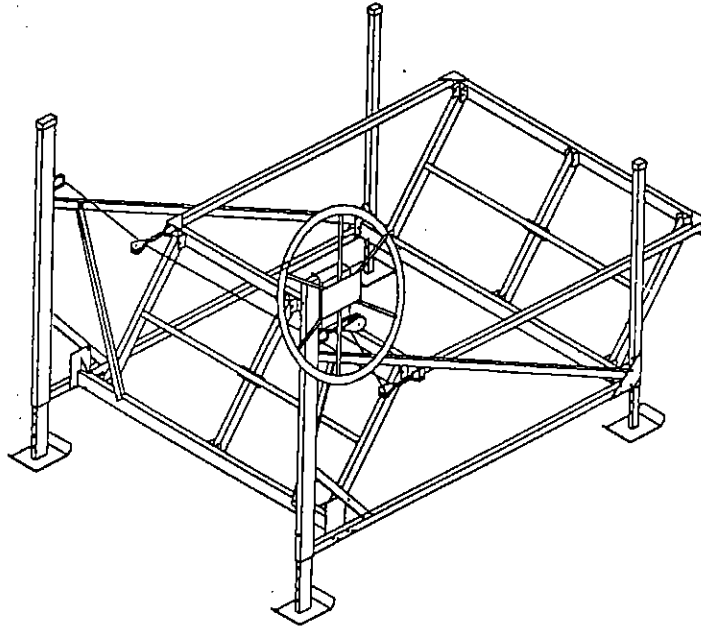


FEIGHNER CANTILEVER STYLE LIFT

OWNER AND OPERATORS MANUAL

Model 3,000/ maximum load of 3,000 pounds

Model 3,600/ maximum load of 3,600 pounds



Cantilever

Manufactured by & for:
The Feighner Company, Inc.
6620 E. Scott Rd.
Nashville, MI. 49073
Phone (517)852-0959
Fax (517)852-0961

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INTRODUCTION

An aluminum cantilever lift will lift your boat up and out of the water for dockside storage. The lift is designed to rest on a stable lake bottom. This lift works best in non-fluctuating water with depths of over 2 ½ feet. There are maximum allowable water depths for the lift depending on leg lengths and location. A properly positioned lift provides safe, convenient, quick mooring for your craft.

The lift functions by turning the lift hand wheel clockwise to raise the lift. Properly position your boat in the lift and it will raise with the lift rack. The wheel is turned counterclockwise to lower the lift.

Information in this manual is not all inclusive and cannot cover all unique situations. If you have questions about assembly, installation, operation or suitability of this product contact your dealer or call (517)852-0959.

WARNINGS AND SAFETY

Your **SAFETY** is the most important issue related to this product. It is critical that all assemblers, installers and users read and fully understand the warnings and safety information contained throughout this manual before using this product.

Safety Instructions

Never exceed recommended weight capacity of your lift. The weight of your boat includes the hull, engine, fuel, gear, battery, and added accessories. The dry weight reported by the manufacturer usually includes only basic boat and engine. The manufacturers reported weights can be understated by 10 -30%! This is before you add fuel, fluids, batteries, accessories, etc.! Weigh your boat at a certified scale to be absolutely sure of the total weight. You will be lifting 20 - 50% more than the reported dry weight when everything is considered.

- ✂ A properly educated or trained person is needed for assembly and installation of this product.
- ✂ Wear proper protective clothing and eye wear when assembling or installing lift.
- ✂ Do not assemble, install or use this product if items are missing or damaged.
- ✂ If fast spin down of wheel occurs do not touch wheel or attempt to stop. Allow your boat to splash into water, it should not damage your boat! Placing hands or feet on spinning wheel can cause broken or cut limbs.

✂ **WARNING** - Stay clear of lift (facing wheel) while operating. Do not allow anyone on, in or under lift. A cable or lift part failure can cause a sudden drop of boat, resulting in a crushing or falling injury or death!

- ✂ Do not allow people on boat when it is on lift in raised position.
- ✂ Do not make alterations or adjustments to lift or accessories when boat is on lift.
- ✂ Check cables for frays, corrosion or breaks at least once a month. A cable breaking while boat is in lift could damage boat or lift. Severe bodily injury could also occur.

PARTS LIST

Before assembly, identify each part. Remove parts from boxes, bags and bundles.

Winch Box & Bolt Bag:

<u>Description</u>	
2	Pulley with 3 Link Chain
1	Pulley with 2 Link Chain
1	Cable (1/4" x 24')
1	Winch
2	Caps
2	Caps
1	Wheel to Winch Bolt Kit
1	Cable Guide

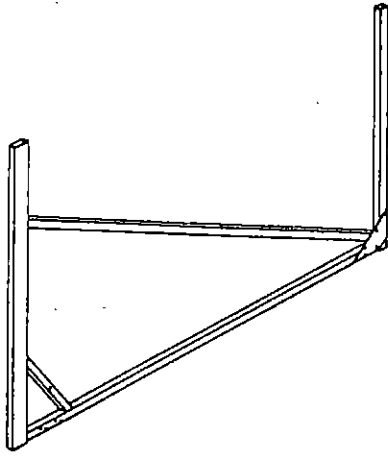
Tools Needed For Assembly

- 2 - 9/16" Combo Wrench
- 1 - 7/16" Combo Wrench
- 1 - 3/16" Allen Wrench
- 2 - 6' Pieces of Strong Nylon Rope

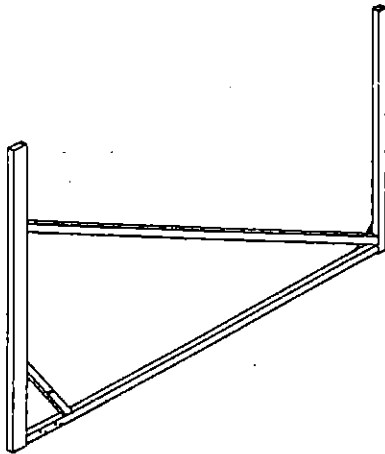
Bolt Bag:

- 4 - 3/8" x 2 3/4" Hex Bolts
- 16 - 3/8" x 3" Hex Bolts
- 8 - 3/8" x 3 1/2" Hex Bolts
- 2 - 3/8" x 5" Hex Bolts
- 2 - 3/8" x 5 1/2" Hex Bolts
- 12 - 1/2" x 4 1/2" Hex Bolts
- 2 - 7/16" x 7" U-Bolts
- 2 - 7/16" Off Set U-Bolts
- 2 - 1/4" Cable Clamps
- 34 - 3/8" Nuts
- 8 - 7/16" Nuts
- 12 - 1/2" Locking Nuts
- 6 - 3/8" Washers
- 8 - 7/16" Washers

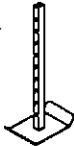
Part A
Left Lift Side
Qty 1



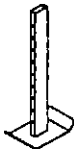
Part B
Right Lift Side
Qty 1



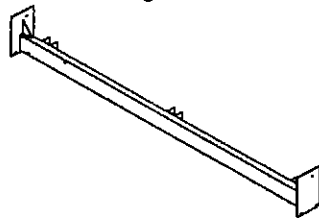
Part C
Rear Legs
Qty 2



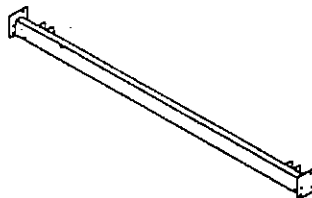
Part D
Front Legs
Qty 2



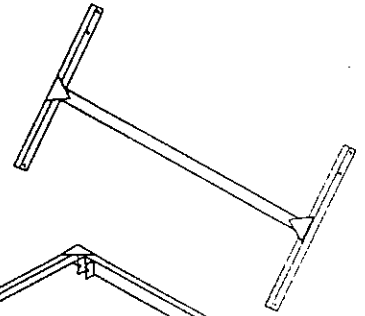
Part E
Front Bottom Beam
Qty 1



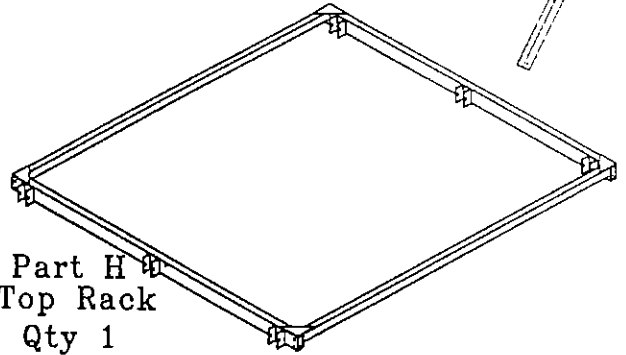
Part F
Rear Bottom Beam
Qty 1



Part G
I Beam
Qty 2



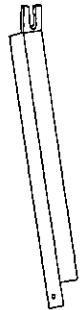
Part H
Top Rack
Qty 1



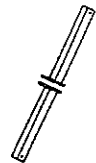
Part I
Left Side Brace
Qty 1



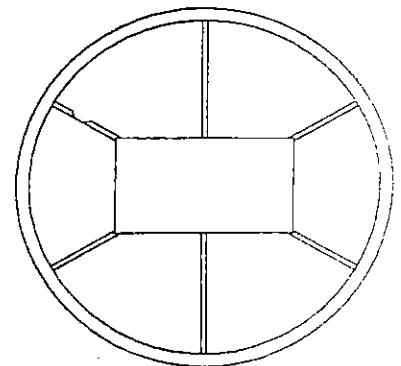
Part J
Right Side Brace
Qty 1



Part K
Middle Leg
QTY 2 Pair



Part L
Wheel
Qty 1



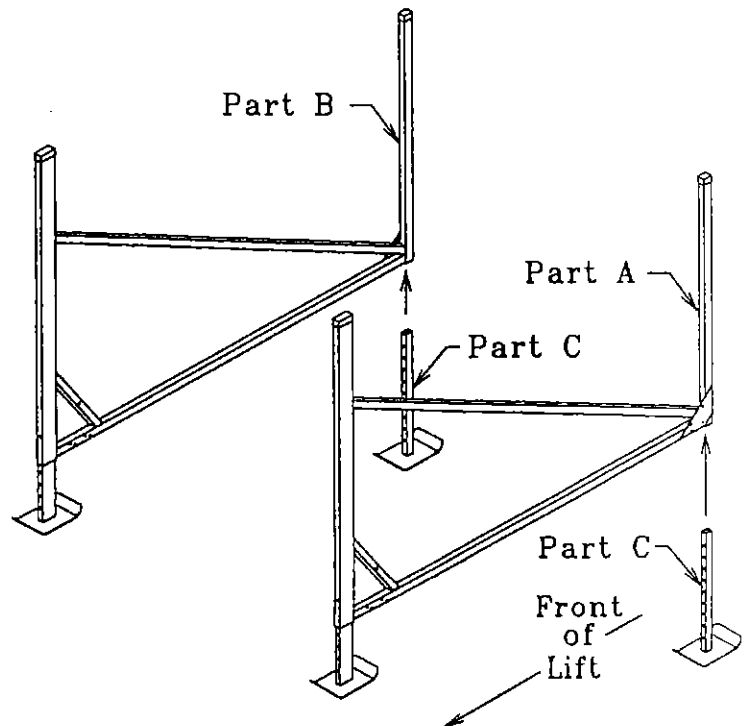
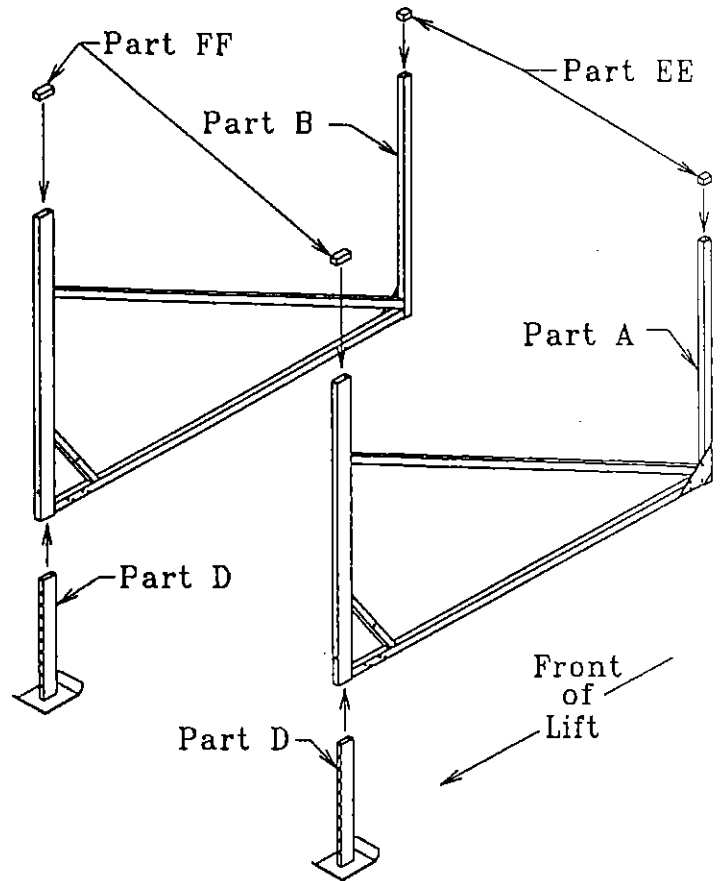
ASSEMBLY

****Fully read and understand each step before proceeding with that step.**

****Only hand tighten bolts and nuts until lift is completely assembled.**

#1 Slide FF parts and EE parts (black caps) on uprights as shown.

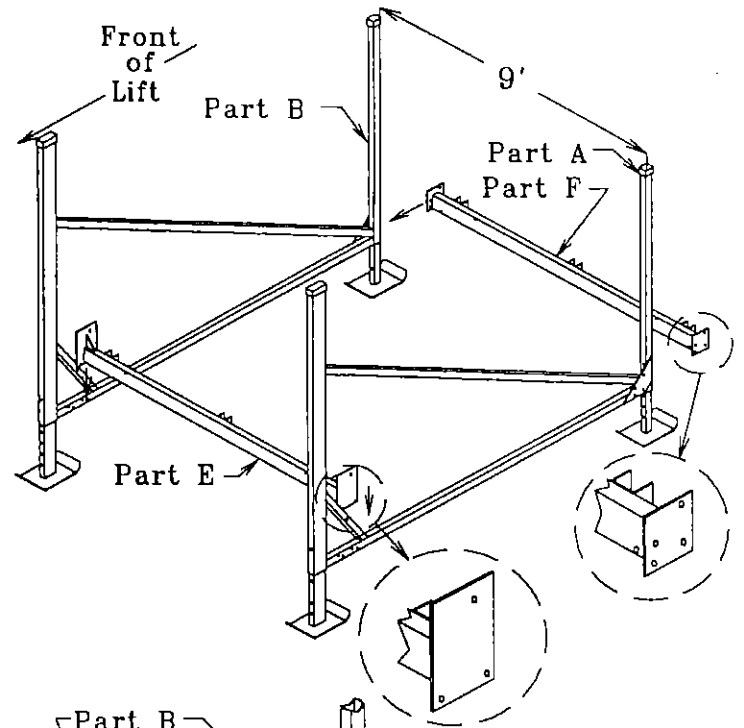
#2 Insert two C parts (rear legs) into parts A & B (Left & Right Lift Sides) as shown. Use (2) 3/8" x 5" hex bolts and (2) 3/8" nuts. Insert (2) D parts (front legs) into parts A & B (left & right lift sides) as shown. Use (2) 3/8" x 5" hex bolts & (2) 3/8" nuts.



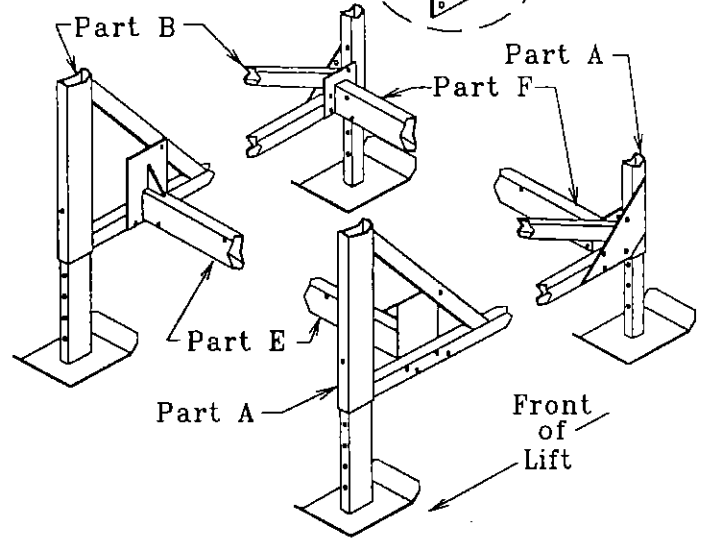
#3 Place A part (left side) and B part (right side) about nine feet apart as shown. Attach part E (front bottom beam) to A & B parts as shown. Use (3) 3/8" x 3" hex bolts with 3/8" nuts at each end.

Note: The triangular plate welded to the lift sides must face outward to properly attach bottom beams.

Note: The front bottom beam has rectangular shape plates welded on the ends. The rear bottom beam has (nearly) square plates.

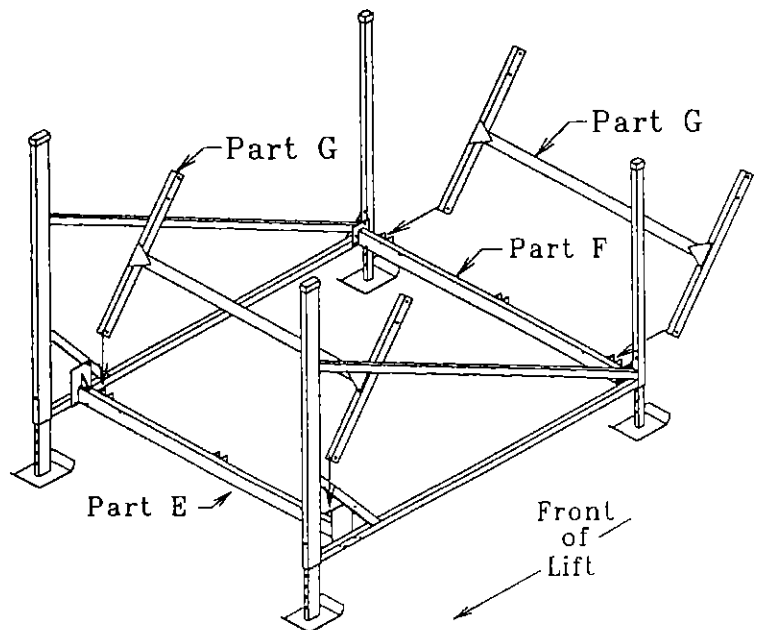


#3B Attach part F (rear bottom beam) to A & B parts as shown. Use (4) 3/8" x 3" hex bolts with 3/8" nuts at each end.



#4 Attach G parts (I-beams) to part E & part F as shown. Use (2) 1/2" x 4 1/2" hex bolts and 1/2" lock nuts per part.

Note: Do not over tighten lock nuts. This connection must move freely during operation.

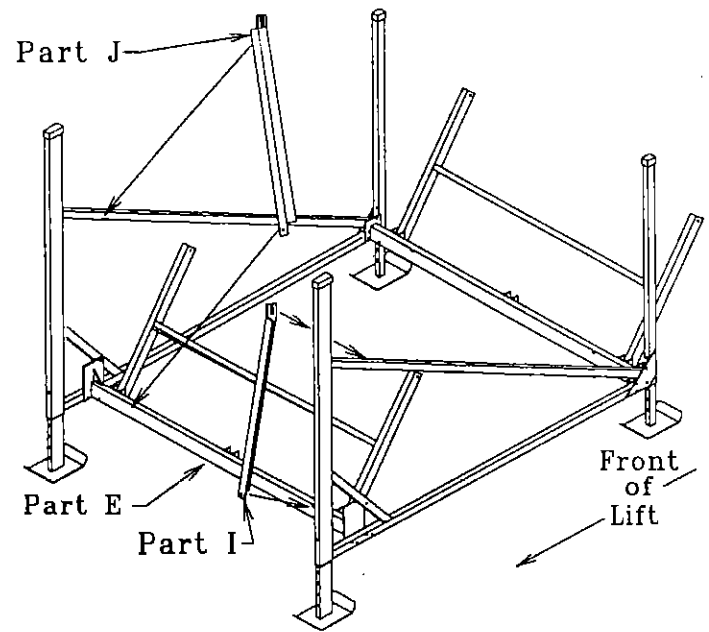


#5 Attach part I (left side brace) & part J (right side brace) to part E (front bottom beam) and to parts A & B (sides) as shown. Use (2) 3/8" x 2 3/4" hex bolts, (1) 3/8" washer and (2) 3/8" nuts for each brace. Bolts should face thread side out.

Note: The washers are used on forked end of brace. Forked ends attach to sides. Place between bolt head and brace.

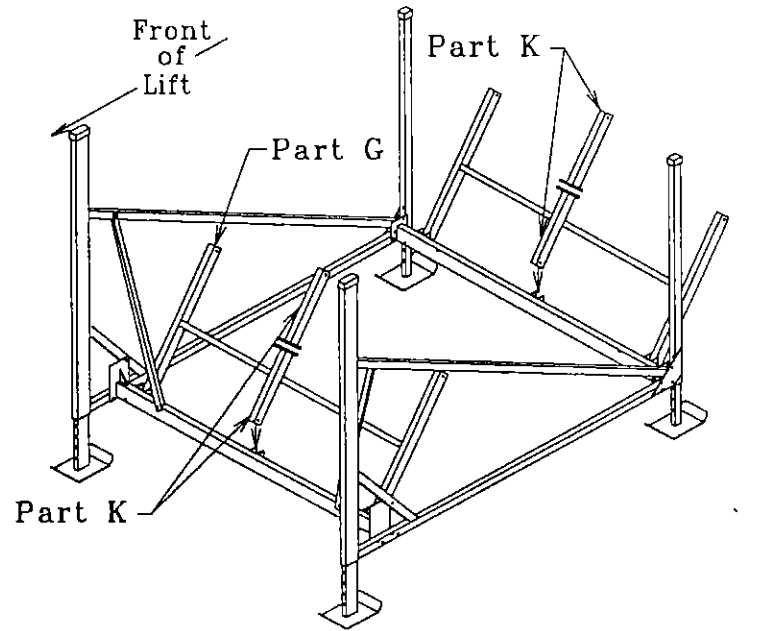
Note: If lifting a wide pontoon, float boat or deck boat you often cannot use standard braces. They could interfere with your boat fitting in the lift properly.

Note: Lift sides should be at a 90-degree angle to your bottom beam after attaching braces.



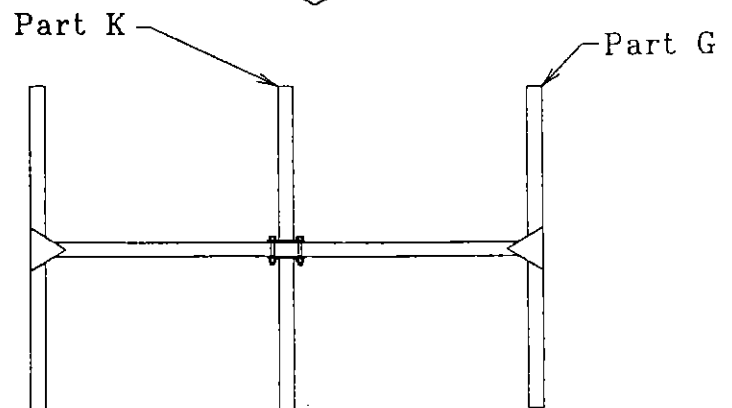
CAUTION

Bolt should be placed so threaded side faces out. This prevents cable from catching under bolt threads should you allow slack in cable during use. Not doing this could result in cable fraying from rubbing on bolt threads.



#6 Attach K parts (middle legs) to parts E & G (front bottom beam and I-beam) and to parts F & G (rear bottom beam and I-beams) as shown. Use (4) 3/8" x 3 1/2" hex bolts and nuts for attaching each pair together. Then attach to bottom beams using 1/2" x 4 1/2" hex bolts and 1/2" lock nuts.

Note: Do not over tighten lock nuts. This connection must move freely during operation.



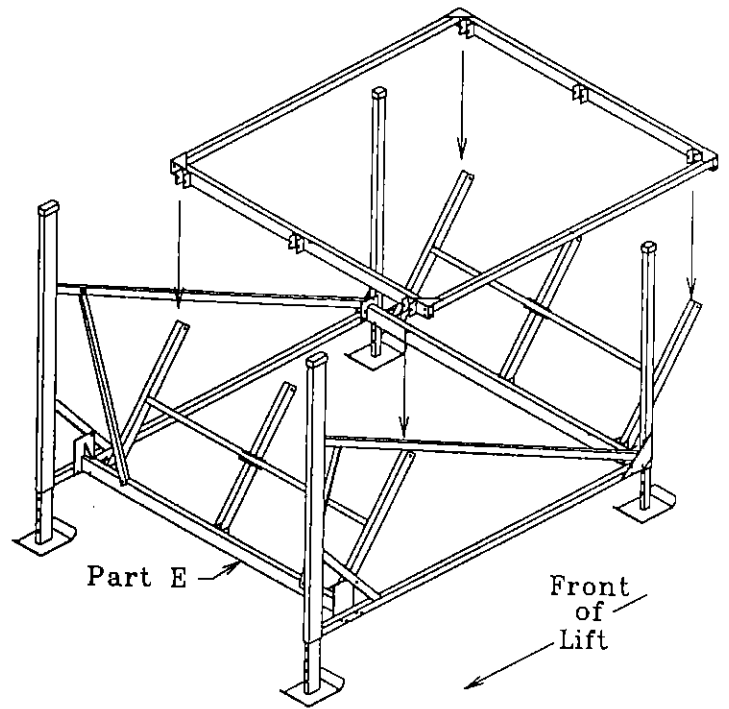
#7 Attach part H (top rack) to parts G & K as shown. Use (6) ½" x 4 ½" hex bolts with ½" lock nuts.

Note: Be sure part H is attached exactly as shown. Do not attach upside down or backwards.

Note: Do not over tighten lock nuts. This connection must move freely during operation.

Note: You may want to shorten G parts if you are in permanently shallow water and have a boat that does not draft much water and your craft weighs close to your lift capacity.

*** This is accomplished by cutting 8" off top of G parts, about 1" above hole already drilled in G parts. This will make your lift easier to operate. However, you only have 32" of lift height instead of 40" normally provided.



#8 Determine where you will position your lift alongside your dock. The side facing your dock is where the winch and wheel attachment will be mounted.

#9 Tie ropes from part H (lift rack) to parts A or B (side upright) in opposite corners. This prevents rack from pivoting during remaining assembly and during installation.

CAUTION

A freely pivoting lift rack could cause a pinching or cutting injury during installation. Be sure lift rack is properly secured when installing. Never move or lift your boat lift by grabbing the lift rack or I-beams.

#10 Attach BB part (pulley with two link chain) to part A or part B, as determined in step #8. Use (1) 7/16" x 7" U-bolt, (2) 7/16" washers and (2) 7/16" nuts to attach.

Note: The BB part must be attached to the proper side. Attach pulley to the side you will be mounting your winch on.

Note: The washers are placed next to nut when attaching.

#11 Attach two AA parts (pulleys with three link chain) to Part H (top rack) as shown. Use a 7/16" offset U-bolt, (2) 7/16" washers and (2) 7/16" nuts to attach each U-bolt.

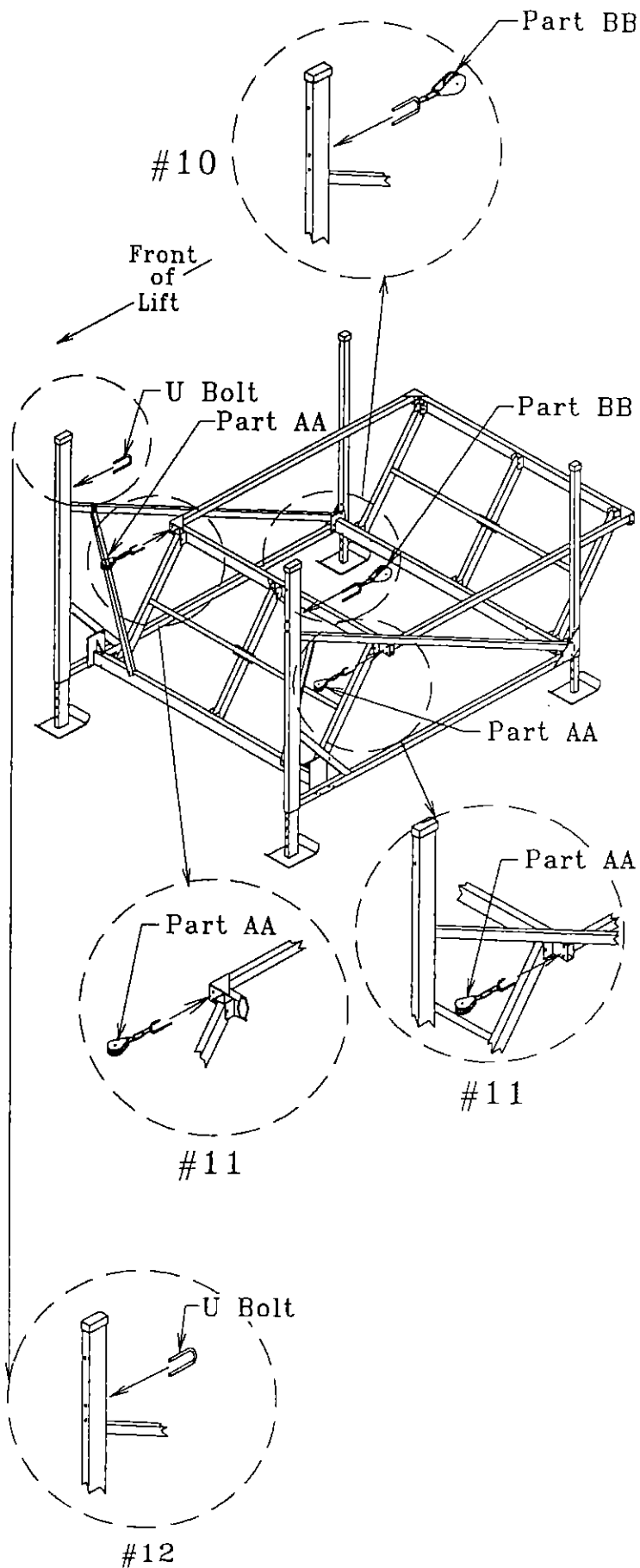
Note: The washers are placed next to nut when attaching.

Note: The long end of offset U-bolt is underneath.

#12 Attach the other 7/16" x 7" U-bolt to the opposite lift side using (2) 7/16" washers and (2) 7/16" nuts.

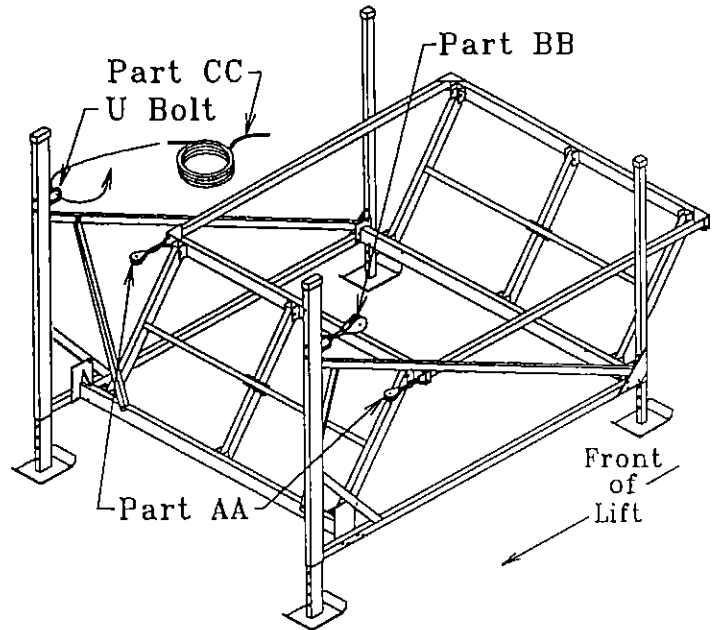
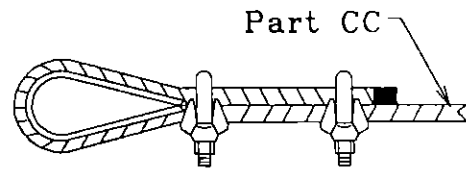
Note: This U-bolt must be attached to the proper side. Attach it to the side you will **not** be mounting your winch on.

Note: The washers are placed next to nut when attaching.

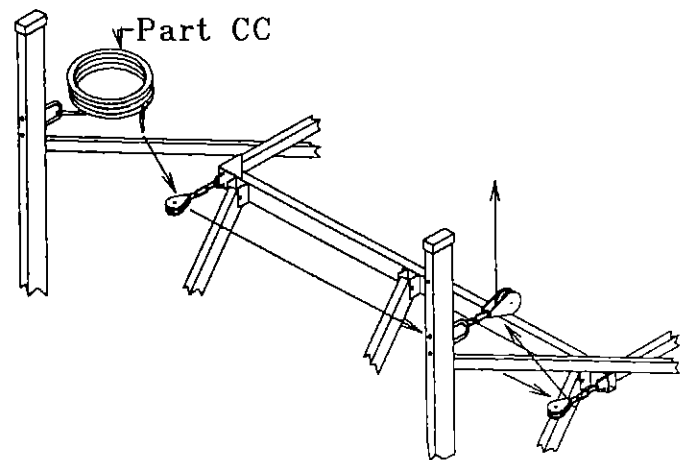


#13 Attach one end of CC part (cable) as shown, to the U-bolt you just attached. Use (2) ¼" cable clamps.

Note: The proper way to attach clamps is as shown. Saddle of clamp must be against cable leading to pulleys.



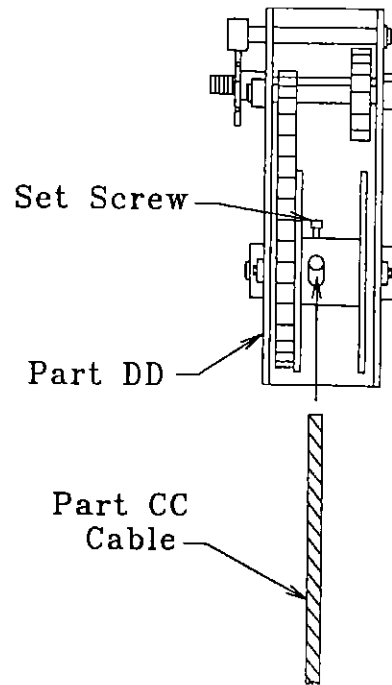
#14 Thread CC part through all three pulleys as shown.



#15 Attach CC part to DD part (winch) as shown. Slide cable end into slotted opening in winch hub. Tighten winch hub set screw to secure cable to winch hub.

Note: Cable must enter at slotted end of opening through hub as shown.

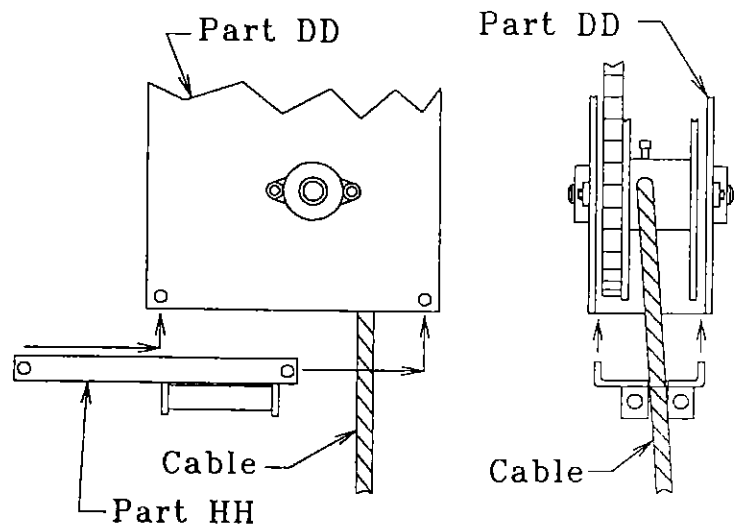
Note: Slide cable fully into hub opening. However, do not go so far that it sticks out other side of hole. This would interfere with proper cable wrapping.



#16 Attach HH part (cable guide) to bottom of winch housing. Use the bolts and nuts that come attached to the cable guide. This guide prevents stacking of cable on winch hub.

Note: Cable guide and cable must be positioned properly so cable is between rollers on cable guide.

Note: Cable guide **must** be installed properly. The end of the cable guide with the rollers **must** be attached to the side of the winch that the cable is winding **up** on the winch hub. **NOT DOING SO WILL VOID YOUR WARRANTY!!!**



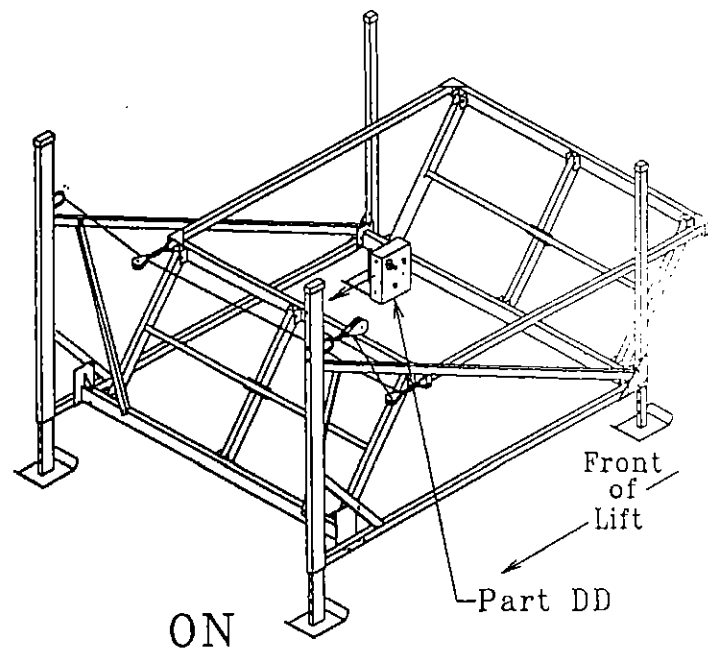
#17 Attach DD part (winch) to upright above BB part (pulley with two link chain) as shown. Use (2) 3/8" x 5 1/2" hex bolts, (4) 3/8" washers and (2) 3/8" nuts.

Note: You must remove winch cover to attach winch. Reattach cover when finished.

Note: Use two washers on each bolt. One against bolt head and one against nut.

CAUTION

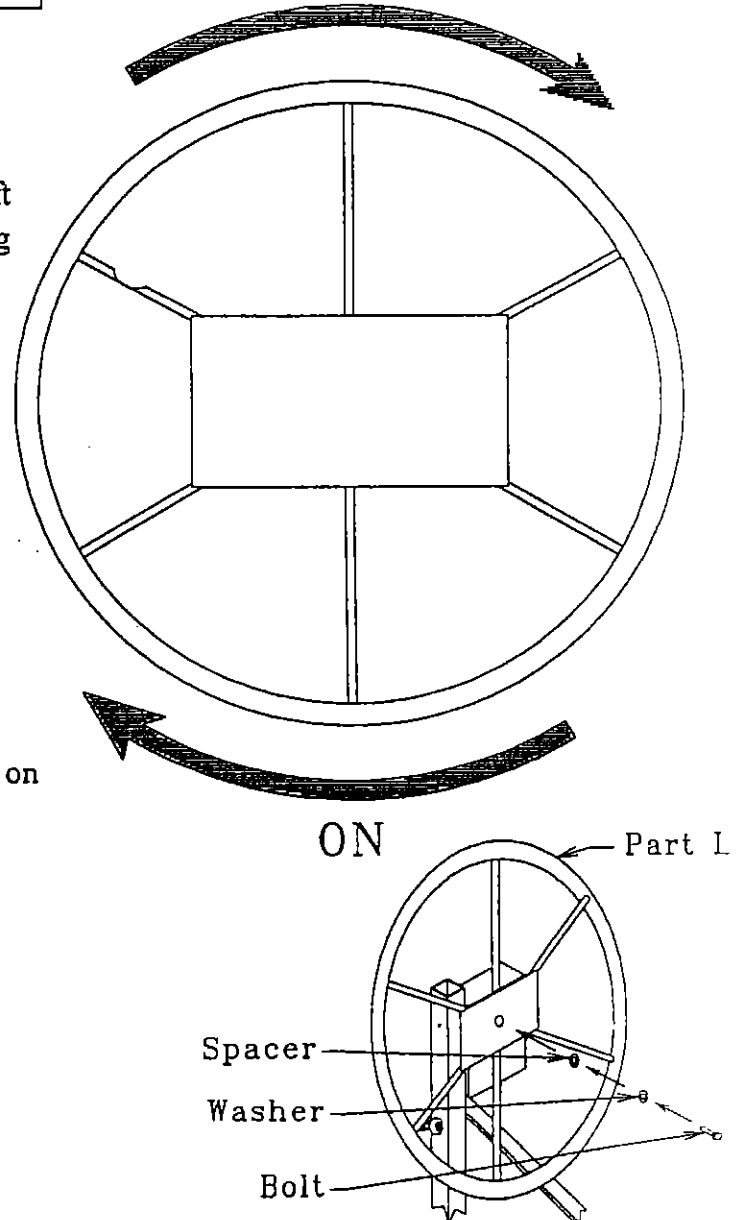
Be sure winch and winch hub are attached exactly vertical when tightening bolts and nuts. Attaching crooked could result in premature cable wear.



#18 Thread L part (wheel) clockwise on to shaft of DD part. Secure in place as shown by attaching 5/16" hex bolt, washer and spacer located in GG part bag.

Note: Do not over tighten this bolt. You could break bolt if you over tighten or cause the brake to function improperly.

Note: You must thread wheel all the way on winch shaft. The wheel hub must be up fully against brake pad and a clicking sound must be heard when turning wheel up!



#19 Thread excess cable onto winch hub by turning wheel clockwise at this time. Applying tension to cable, by holding it tight when raising wheel, will help to develop proper wrap.

CAUTION

Be sure cable wraps tight and uniformly on hub.
Do not allow cable to wind up loosely on hub. Cables wrapping incorrectly will result in rapid cable wear.

CAUTION

Use a leather glove or other hand protection to avoid cuts when applying cable pressure.

#20 Firmly secure bolts and nuts at this time. Do not over tighten lock nut connections.

#21 Many accessories are available for use with this boat lift. See assembly instructions for each required accessory. Follow relevant safety instructions mentioned in this manual when attaching accessories.

INSTALLATION

The following are guidelines or suggestions for installation. Situations vary between installation sites. Common sense may dictate that other factors be considered in your situation. Your site may not allow for some of our suggestions to be used or followed entirely. Do not, under any circumstances, endanger yourself or risk damage to lift or boat when installing.

CAUTION

If you are unable to properly and safely install this boat lift, **please have a trained boat lift installer perform the installation.**

#1 Measure water depth of exact position you want to locate lift.

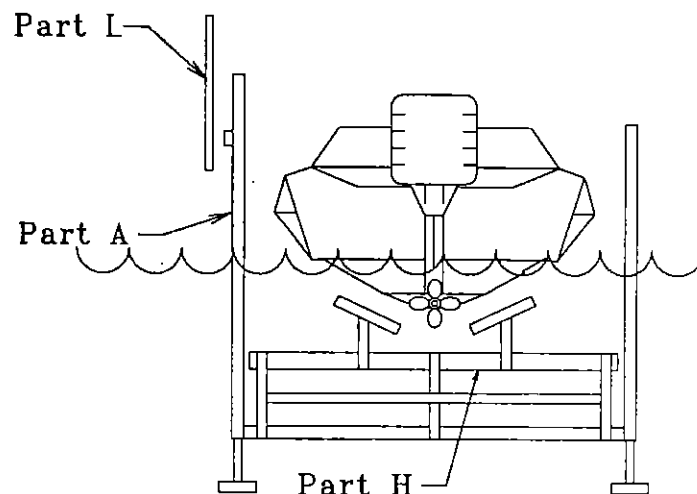
#2 Before installing, adjust lift legs so lift can be properly positioned in water.

Note: Lift must be positioned low enough so boat can float into position before raising, while also allowing high enough position so the boat can be fully raised up and out of water.

Note: Lift rack must always be in partially raised position (6" above rear bottom beam) before any weight is applied. Lift rack must never rest on rear bottom beam during use. Adjust lift legs down or move lift to deeper water if this is a problem!!!

CAUTION

Never apply weight on lift when top rack is in fully lowered position. Doing this will bend lift frame and cause permanent damage to lift.



REAR VIEW

#3 Be sure security ropes are still in place. This will prevent rack from pivoting when moving lift into position.

Note: Remove ropes when lift is in place.

CAUTION

A freely pivoting lift rack could cause a pinching or cutting injury during installation. Be sure lift rack is properly secured when installing. Never move or lift your boat lift by grabbing the lift rack or I-beams.

#4 Carry, lift, roll, float or slide lift into position. Position alongside dock so hand wheel can be easily turned from dock.

CAUTION

Lift must be resting on lake bottom in a level, secure and stable position for safe operation. An unstable lift installation could result in tipping of lift during operation, causing damage to watercraft, and crushing or pinching injury to operator.

OPERATION

-Loading of Watercraft-

CAUTION

Remove safety ropes before using lift. Be sure when removing that cable is wrapped tight. Winch up excess cable to avoid rack dropping when undoing ropes.

#1 Be sure lift rack and cradles or bunks are positioned below water surface so they will not interfere with boat floating into position.

CAUTION

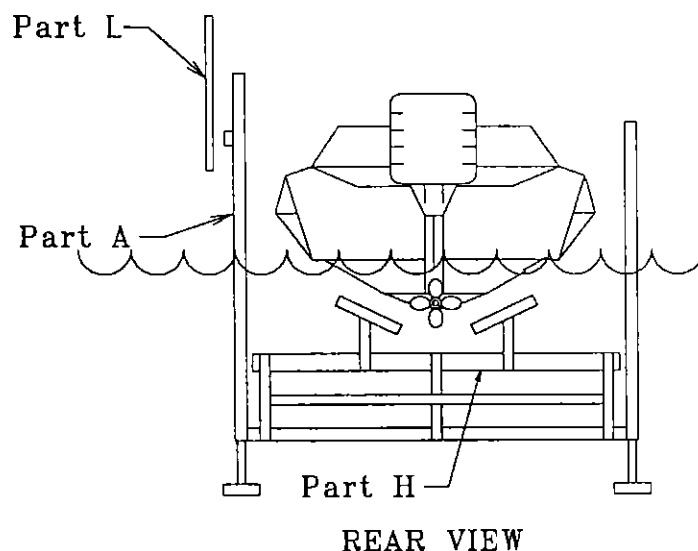
Be sure boat is properly balanced and centered on lift before raising.

CAUTION

If lift is without a boat in it for more than one day, raise the rack (pulleys and cable) fully out of the water to help prevent corrosion of these parts.

#2 Position boat with center of gravity near middle of lift. For most rear engine mounted boats, this requires you to position the boat mostly forward in the lift.

WARRANTY DOES NOT
APPLY IF DAMAGE IS
CAUSED BY IMPROPER
LOADING!!



-Raising Lift-

#1 Make sure boat is in proper position. Turn lift wheel clockwise (in direction of up arrow). Stop turning wheel when craft reaches desired height out of the water.

WARNING

Stay clear of lift (facing wheel) while operating. Do not allow anyone on, in or under lift. A cable or lift part failure can cause a sudden drop of boat, resulting in a crushing or falling injury or death!

CAUTION

Turn wheel in direction of arrow (clockwise) to raise lift. A clicking sound is heard when properly raising lift. Turning wheel and wrapping cable in wrong direction will cause fast spin down of wheel.

CAUTION

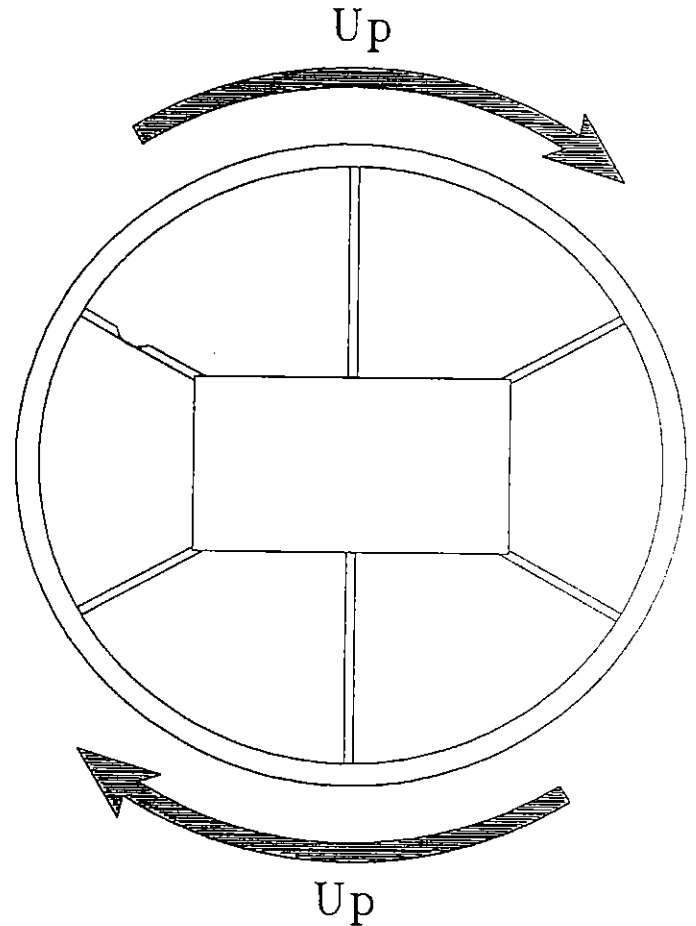
If fast spin down of wheel occurs do not touch wheel or attempt to stop. Placing hands or feet on spinning wheel can cause broken or cut limbs.

CAUTION

Properly cover your boat, when in raised position, if rain can gather in your craft. An inch of rain adds several pounds to lift. Added weight may result in boat being over capacity.

CAUTION

Do not over raise lift rack. If wheel is over rotated and rack is over raised it could cause damage to lift and may leave you unable to lower lift back down.



#2 Optional: Lock and chain wheel for security.
You may also lock and chain rack to both front lift
uprights to secure boat from cable or winch failure.

CAUTION

Do not allow people on boat when in a raised
position on lift. Entering boat when in the raised
position adds to lift load and is not safe! A falling
injury could occur should lift fail.

CAUTION

Do not allow anyone who is in the water within six
feet of the lift. A crushing injury could occur to
swimmer should cable, winch brake or lift part fail.

-Lowering Lift-

#1 Turn wheel counterclockwise (in direction of
down arrow).

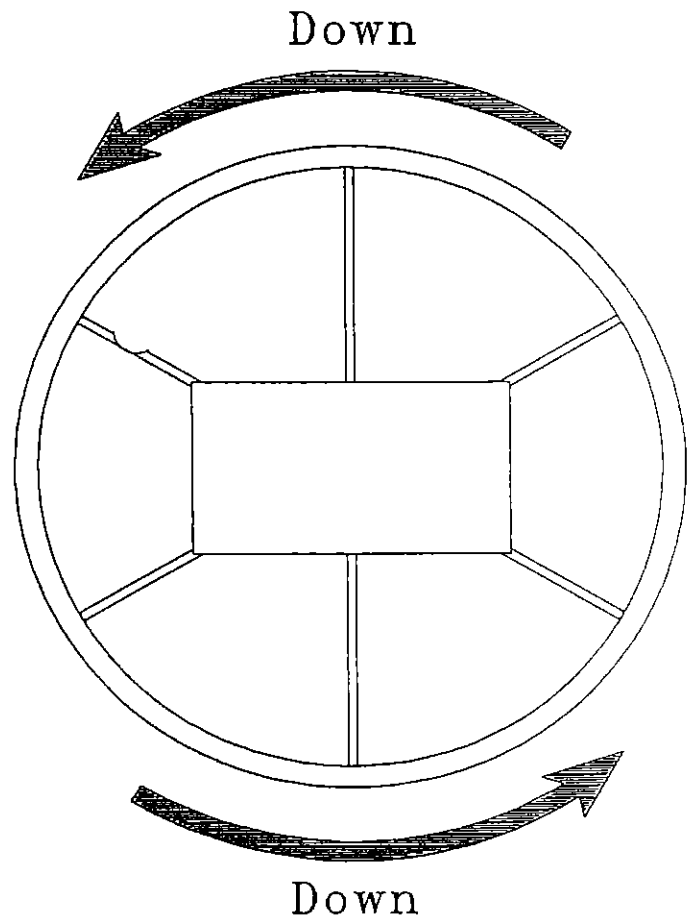
Note: Turn wheel down one or two turns
past point when craft begins to float (This must
always be at some point before lift rack is
contacting rear bottom beam). Then turn wheel up
slightly until clicking sound is heard to secure
wheel position and brake on winch.

CAUTION

Winch Safety - Never disconnect ratchet pawl, gear
or brake mechanism to lower lift wheel.
Disconnected or faulty brake parts will result in
rapid spinning of wheel.

CAUTION

Do not over lower wheel so slack develops in cable.
Doing this could cause cable to jump off winch
spool. This may result in sloppy wrapping of cable
next time you raise the lift, resulting in premature
wear or cable breaking.



REMOVAL & STORAGE (winterizing)

****Warranty does not apply for this product against any damage caused by or related to ice!!**

CAUTION

Ice can severely damage your boat lift. Do not leave lift, or boat on lift, in water if ice damage is possible.

#1 Tie lift rack securely to lift side uprights in opposite corners. This will prevent rack from pivoting when moving lift out of water.

Note: Remove ropes when lift is reinstalled.

CAUTION

A freely pivoting lift rack could cause a pinching or cutting injury during removal. Be sure lift rack is properly secured when removing. Never move or lift your boat lift by grabbing the lift rack or I-beams.

#2 Carry, lift, roll, float or slide lift out of water. Position safely away from potential ice build up.

SERVICE (Maintenance)

#1 Inspect nuts and bolts at least every six months for damage, wear or loose connections. Tighten or replace parts as needed.

CAUTION

Check cables for frays, corrosion or breaks at least once a month. A cable breaking while boat is in lift could damage boat or lift. Severe bodily injury could also occur.

#2 Inspect lift frame, pulleys, winch and pivot points at least every six months for unusual wear, damage or bent parts. Replace or repair as needed.

#3 Lubricate winch and wheel threads at least every six months.

Note: Do not get lubricant on brake pads! Brake will fail and wheel will spin down if brake pads are lubricated.

#4 Lubricate pulleys at least every six months.