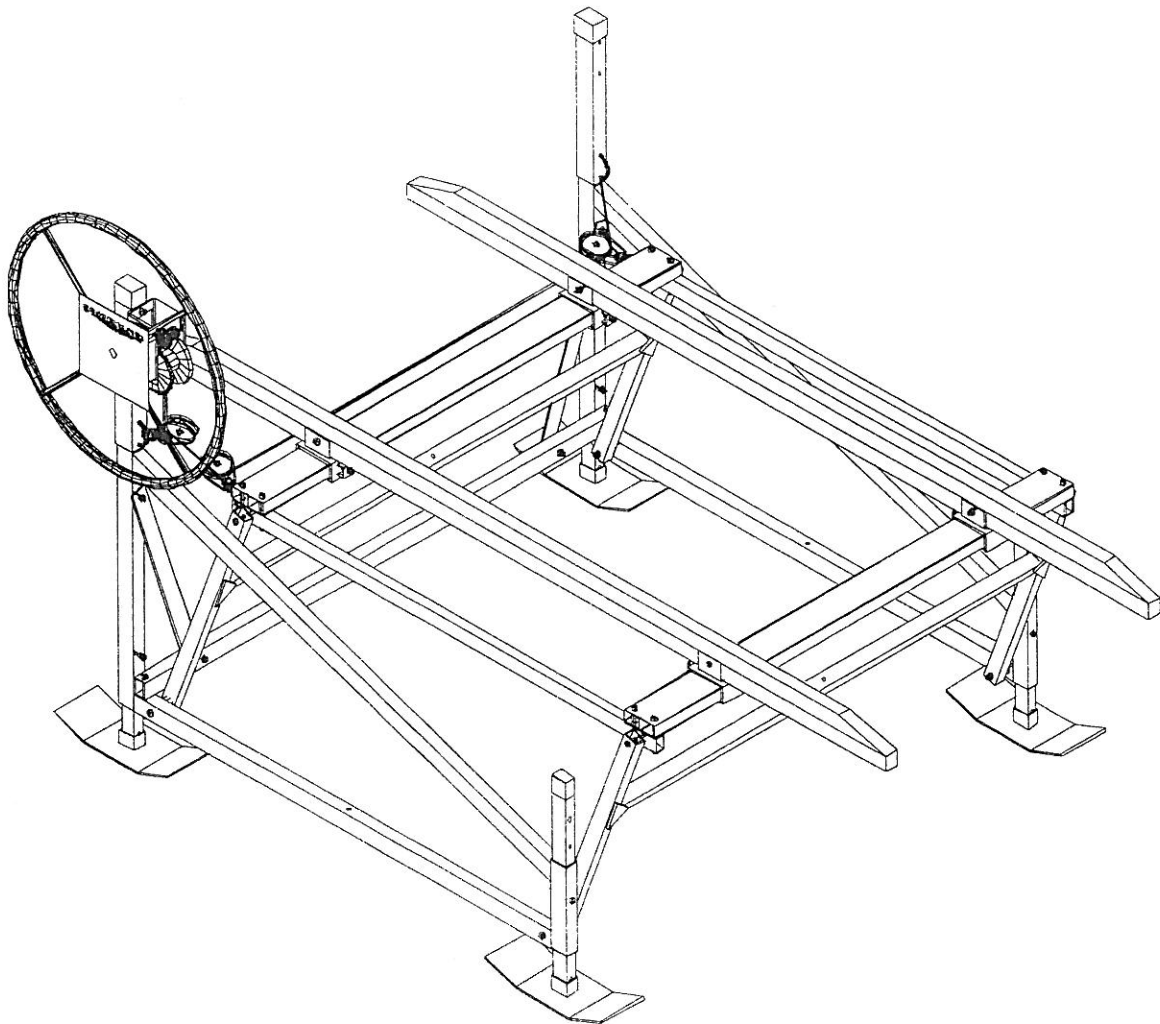


855 SHOREMASTER PERSONAL WATERCRAFT LIFT

- OWNER AND OPERATORS MANUAL - Model 855

Maximum Load 800 Pounds - Inside Lift Width 55"



855 Personal Watercraft Lift
Manufactured by ShoreMaster Inc.
Revision No. (5) 01-29-01
ShoreMaster Inc.

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Fergus Falls, MN 56538-0358

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 E-mail – quality1@shoremaster.com

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INTRODUCTION

ShoreMaster 855 lifts will lift your personal watercraft up and out of the water for dockside storage. The 855 is designed to rest on a stable, shallow water lake bottom. The lifts are available in a single 855 model or an 855 Add On. The 855 Add On can only be used in combination with an 855 lift. 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 craft in the lift and it will rise 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 an authorized ShoreMaster dealer or ShoreMaster toll-free 1-800-328-8945.**

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 craft includes the hull, engine, fuel, gear and added accessories. The dry weight reported by the manufacturer usually includes only the basic watercraft. The craft manufacturers reported weights could be understated by 10% or more! This is before you add fuel, fluids, accessories, etc.! Weigh your craft at a certified scale to be sure of the total weight. You will be lifting 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. Call ShoreMaster if you have questions.
 - ✂ Wear proper protective clothing and eyewear 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 craft to splash into water, it should not damage your craft! 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 craft, resulting in a crushing or falling injury or death!
- ✂ Do not allow people on craft when craft is on lift in raised position.
 - ✂ Do not make alterations or adjustments to lift or accessories when watercraft 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.

855 LIFT PARTS LIST

Before assembly remove all parts from the boxes, bags and bundles and identify. This will confirm that all parts are present and allow you to follow the directions easily.

855 Winch Box & Bolt Bag:

<u>Part ID</u>	<u>Qty.</u>	<u>Description</u>
AA	2	Pulley with 3 Link Chain
BB	1	Pulley with 2 Link Chain
CC	1	Cable (3/16" x 12')
DD	1	Winch (1202 Dutton)
EE	2	#6 Blue Caps
FF	2	#3 Blue Caps
GG	1	Wheel to Winch Bolt Kit & Winch Rope Clamp Bag

Bolt Bag:

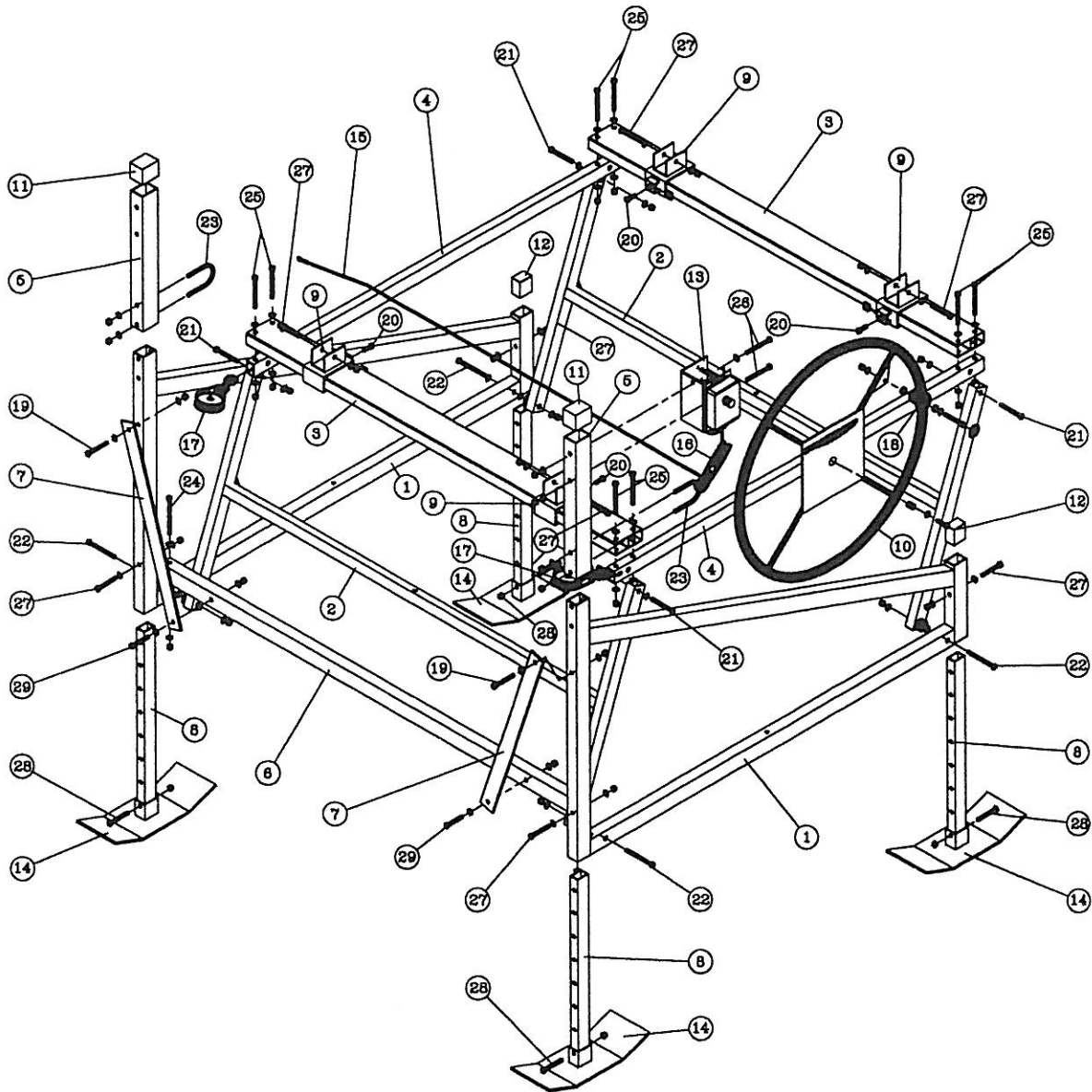
2 - 3/8" x 4" U-Bolts
2 - 3/8" x 2 1/4" Hex Bolts
12 - 3/8" x 2 1/2" Hex Bolts
2 - 3/8" x 2 3/4" Hex Bolts
2 - 3/8" x 3 1/4" Hex Bolts
8 - 3/8" x 4" Hex Bolts
2 - 3/8" x 4 1/2" Hex Bolts
4 - 1/2" x 3 1/2" Hex Bolts
4 - 1/2" x 4 1/2" Hex Bolts
4 - 1/2" x 1 1/4" Square Head Bolts
32 - 3/8" Nuts
8 - 1/2" Locking Nuts
4 - 1/2" Square Nuts
52 - 3/8" Washers
16 - 1/2" Washers

Tools Needed For Assembly

2 - 9/16" Combo Wrench
2 - 3/4" Combo Wrench
1 - 7/16" Combo Wrench

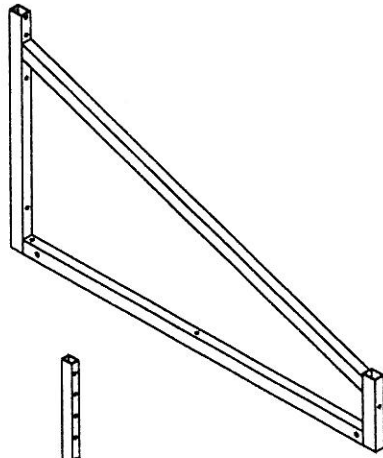
MODEL 855

Reference Drawing for 855



#	DESCRIPTION
1	LIFT SIDE - 54", (2)
2	I - BEAM - 55", (2)
3	RACK PLANK BEAM - 54 1/2", (2)
4	RACK SIDE BEAM - 54 3/4", (2)
5	UPRIGHT EXTENSION - 17 1/2", (2)
6	FRONT BOTTOM BEAM - 61 1/2", (1)
7	LIFT BRACE - 24", (2)
8	2' LIFT LEG POST, (4)
9	855 CRADLE BRACKET, (4)
10	LIFT WHEEL - SMALL, (1)
11	#3 BLUE CAP, (2)
12	#6 BLUE CAP, (2)
13	1202 D.L. WINCH, (1)
14	DETATCHABLE LIFT PADS B-2, (4)
15	3/16" x 12' STAINLESS STEEL CABLE, (1)
16	PLASTIC PULLEY COMPLETE - 2 LINK, (1)
17	PLASTIC PULLEY COMPLETE - 3 LINK, (2)
18	SPINNER KNOB ASSEMBLY, (1)
19	(1) 3/8" x 2 3/4" MACHINE BOLT, (2) 3/8" WASHERS, (1) 3/8" NUT, (2 PLACES)
20	(1) 1/2" x 1 1/2" SQUARE HEAD BOLT, (1) 1/2" SQUARE HEAD NUT, (4 PLACES)
21	(1) 1/2" x 3 1/2" MACHINE BOLT, (2) 1/2" WASHERS, (1) 1/2" NYLOCK NUT, (4 PLACES)
22	(1) 1/2" x 4 1/2" MACHINE BOLT, (2) 1/2" WASHERS, (1) 1/2" NYLOCK NUT, (4 PLACES)
23	(1) 3/8" x 4" U-BOLT, (2) 3/8" WASHERS, (2) 3/8" NUTS, (2 PLACES)
24	(1) 3/8" x 4 1/2" MACHINE BOLT, (2) 3/8" WASHERS, (1) 3/8" NUT, (2 PLACES)
25	(1) 3/8" x 4" MACHINE BOLT, (2) 3/8" WASHERS, (1) 3/8" NUT, (8 PLACES)
26	(1) 3/8" x 3 1/4" MACHINE BOLT, (2) 3/8" WASHERS, (1) 3/8" NUT, (2 PLACES)
27	(1) 3/8" x 2 1/2" MACHINE BOLT, (2) 3/8" WASHERS, (1) 3/8" NUT, (8 PLACES)
28	(1) 3/8" x 2 1/2" MACHINE BOLT, (1) 3/8" NUT, (4 PLACES)
29	(1) 3/8" x 2 1/4" MACHINE BOLT, (2) 3/8" WASHERS, (1) 3/8" NUT, (2 PLACES)

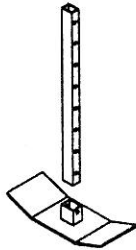
LIFT SIDE
QTY 2



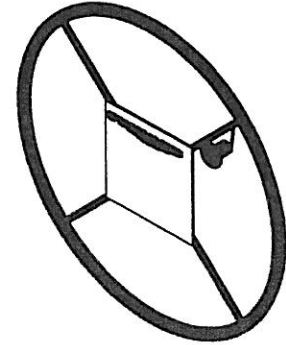
BRACE
QTY 2



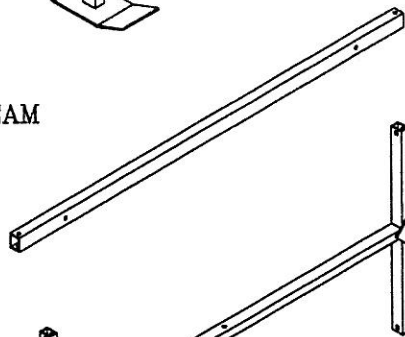
LEG & PAD
QTY 4



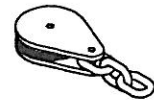
WHEEL
QTY 1



FRONT BOTTOM BEAM
QTY 1



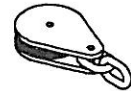
PULLEY WITH
3 LINK CHAIN
QTY 2



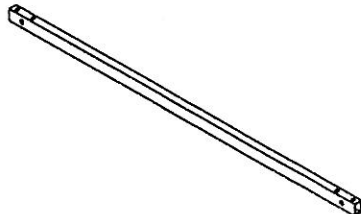
I-BEAM
QTY 2



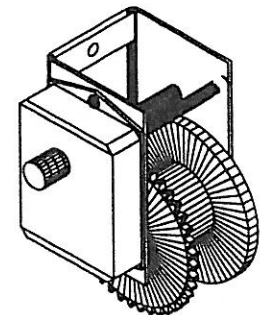
PULLEY WITH
2 LINK CHAIN
QTY 1



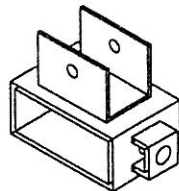
RACK SIDE
QTY 2



D.L. 1202 WINCH
QTY 1



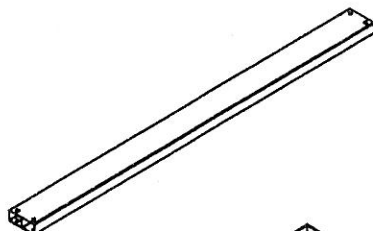
CRADLE BRACKET
QTY 4



#6 BLUE CAP
QTY 2



RACK PLANK
QTY 2



#3 BLUE CAP
QTY 2



EXTENSION TUBE
QTY 2



** The following instructions are for assembling an 855 lift only.

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

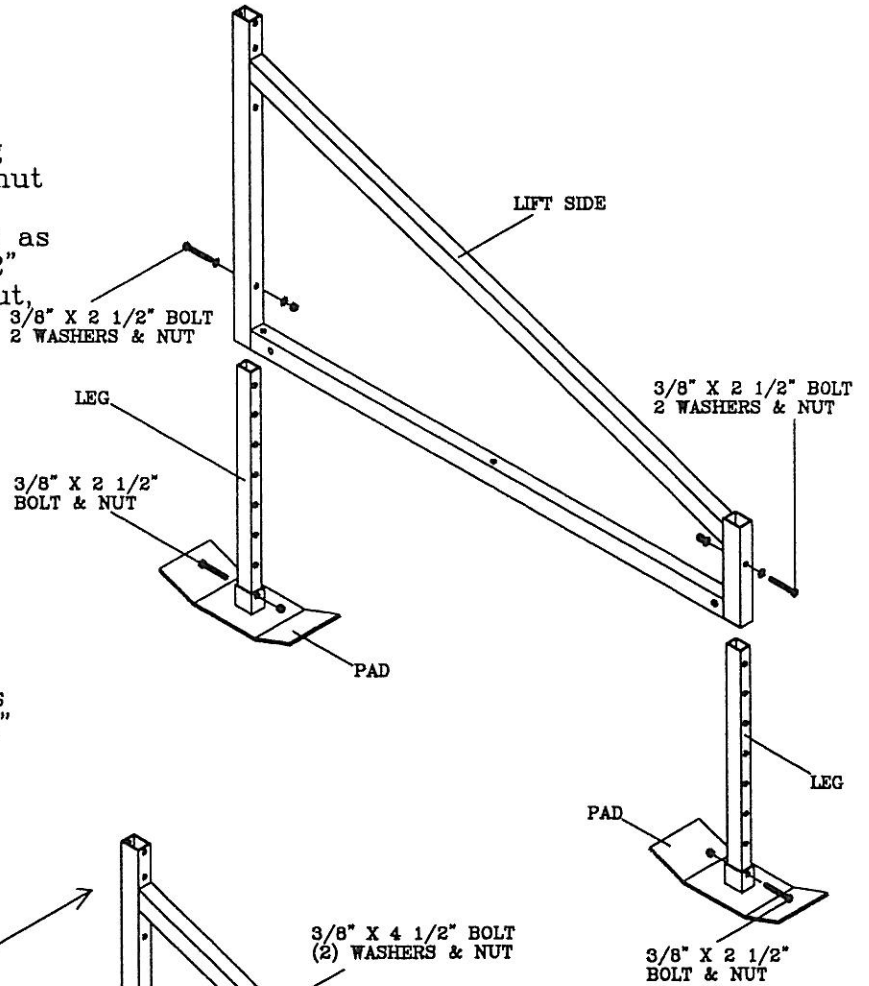
** Only hand tighten nuts and bolts until lift is completely assembled.

**Note: Nylock nuts should not be reused. If a Nylock nut is removed it must be replaced with a new Nylock nut.

STEP #1

Insert legs into pads and secure using (1) 3/8" x 2 1/2" bolt, and (1) 3/8" nut on each pad.

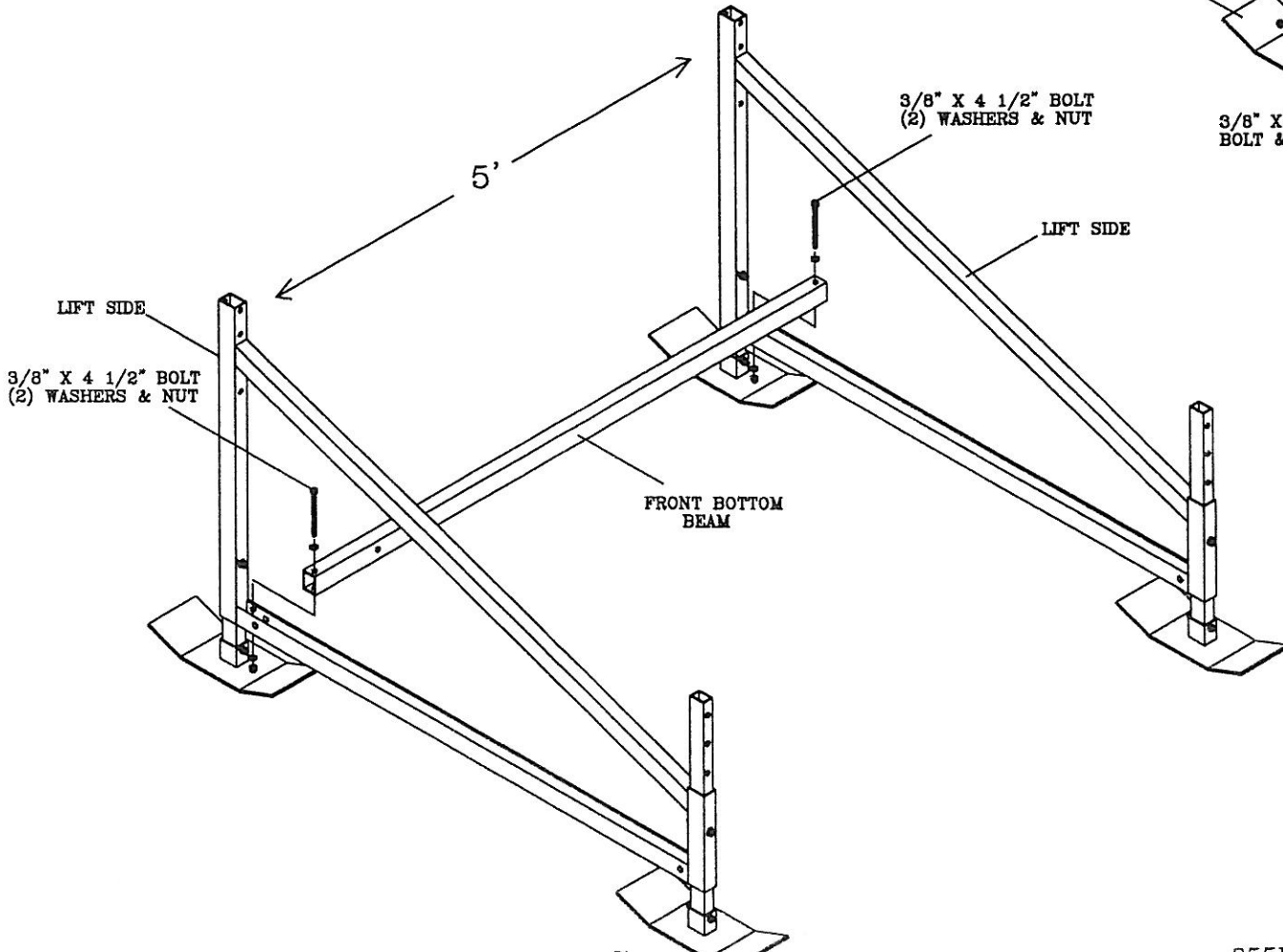
Insert the four legs into the lift sides as shown. Secure with, (1) 3/8" x 2 1/2" bolt, (2) 3/8" washers and (1) 3/8" nut, on each leg.



STEP #2

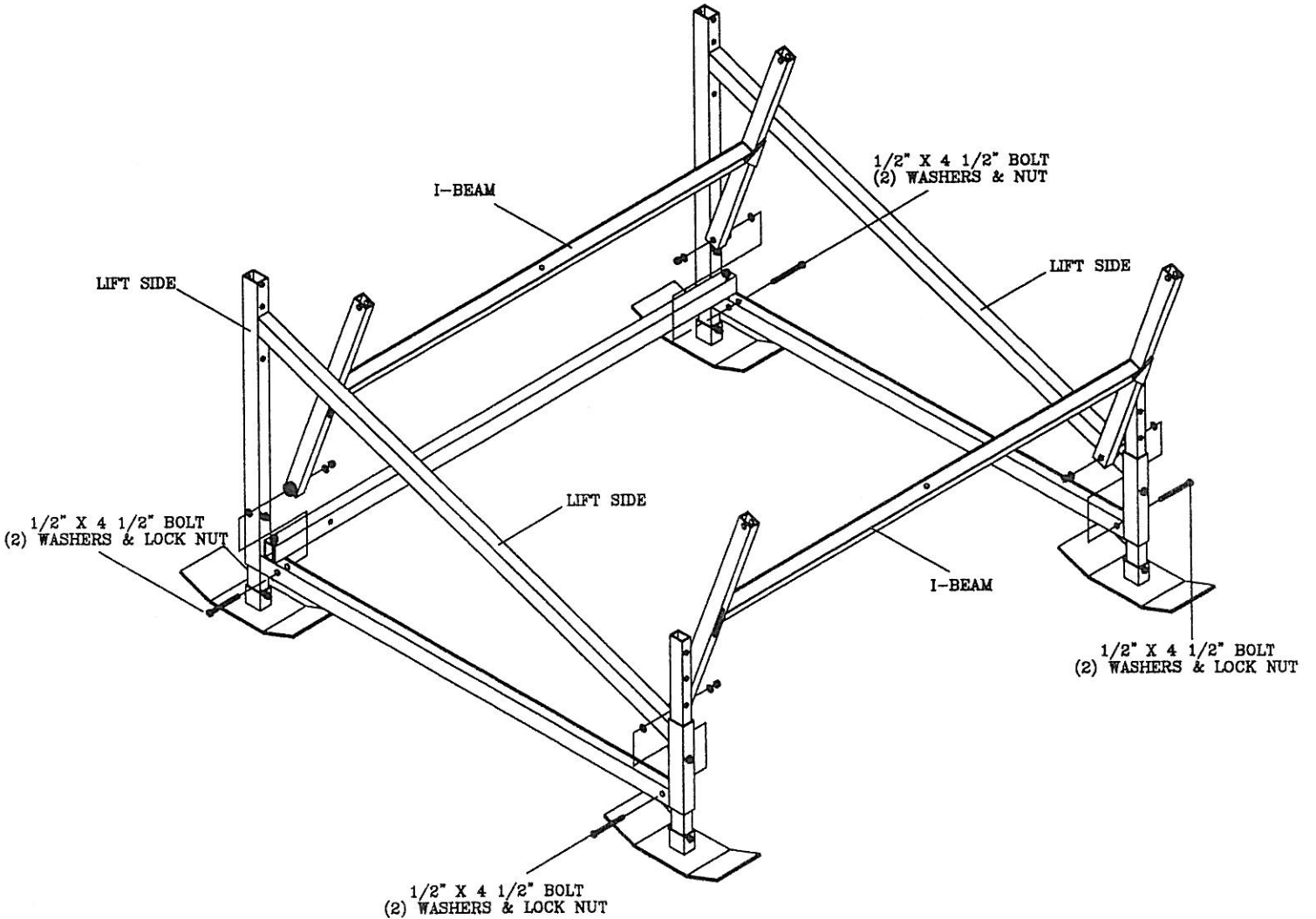
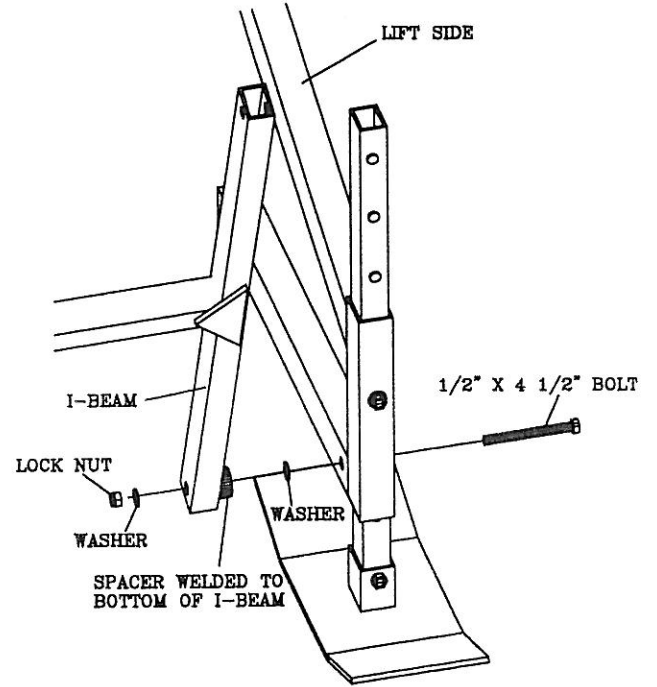
Place lift sides about five feet apart.

Attach front bottom beam to lift sides using (2) 3/8" x 4 1/2" bolts, (4) 3/8" washers and (2) 3/8" nuts.



STEP #3

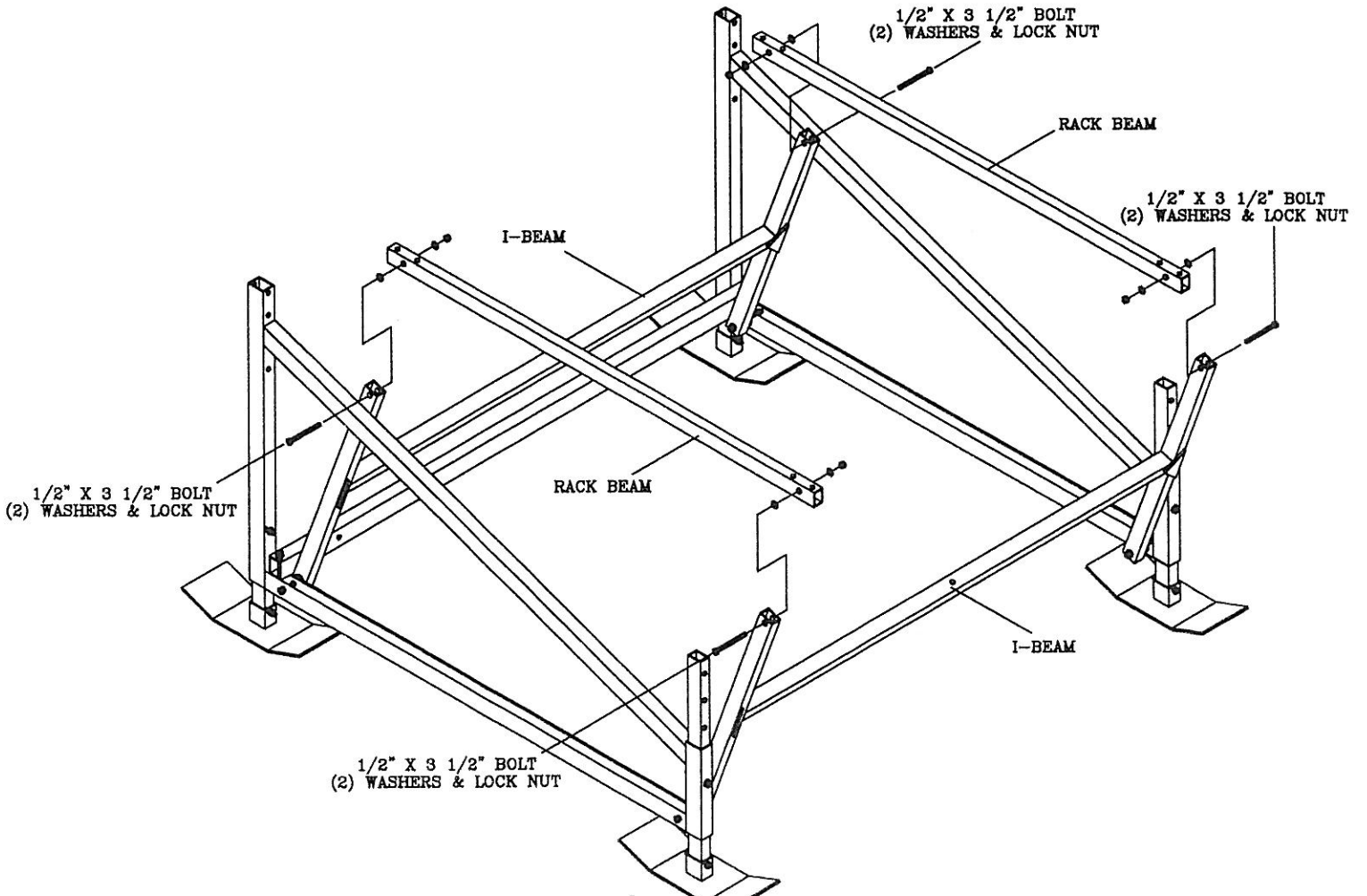
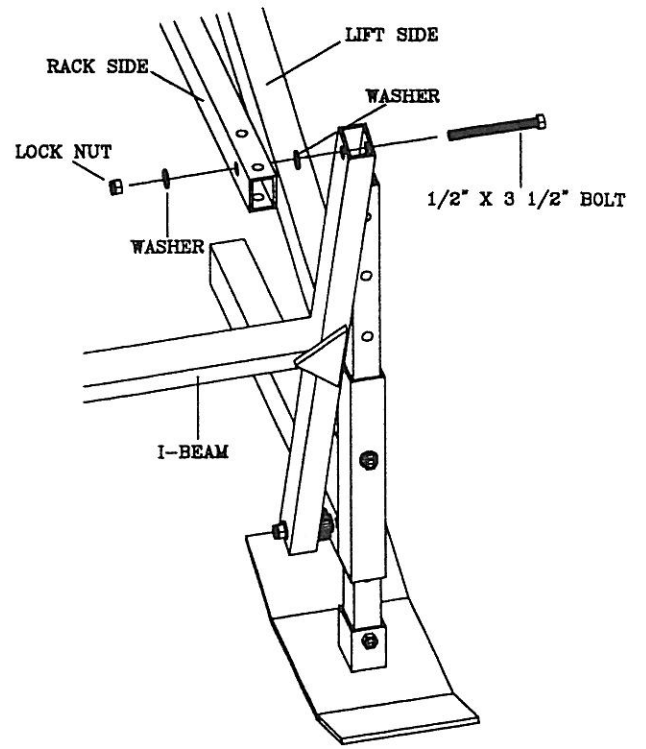
Attach the two I-beams to the two lift sides using (4) 1/2" x 4 1/2" bolts, and (8) 1/2" washers and (4) 1/2" lock nuts.



STEP #4

Attach rack sides to upper holes in I-beams with (4) 1/2" x 3 1/2" bolts, (8) 1/2" washers and (4) 1/2" lock nuts.

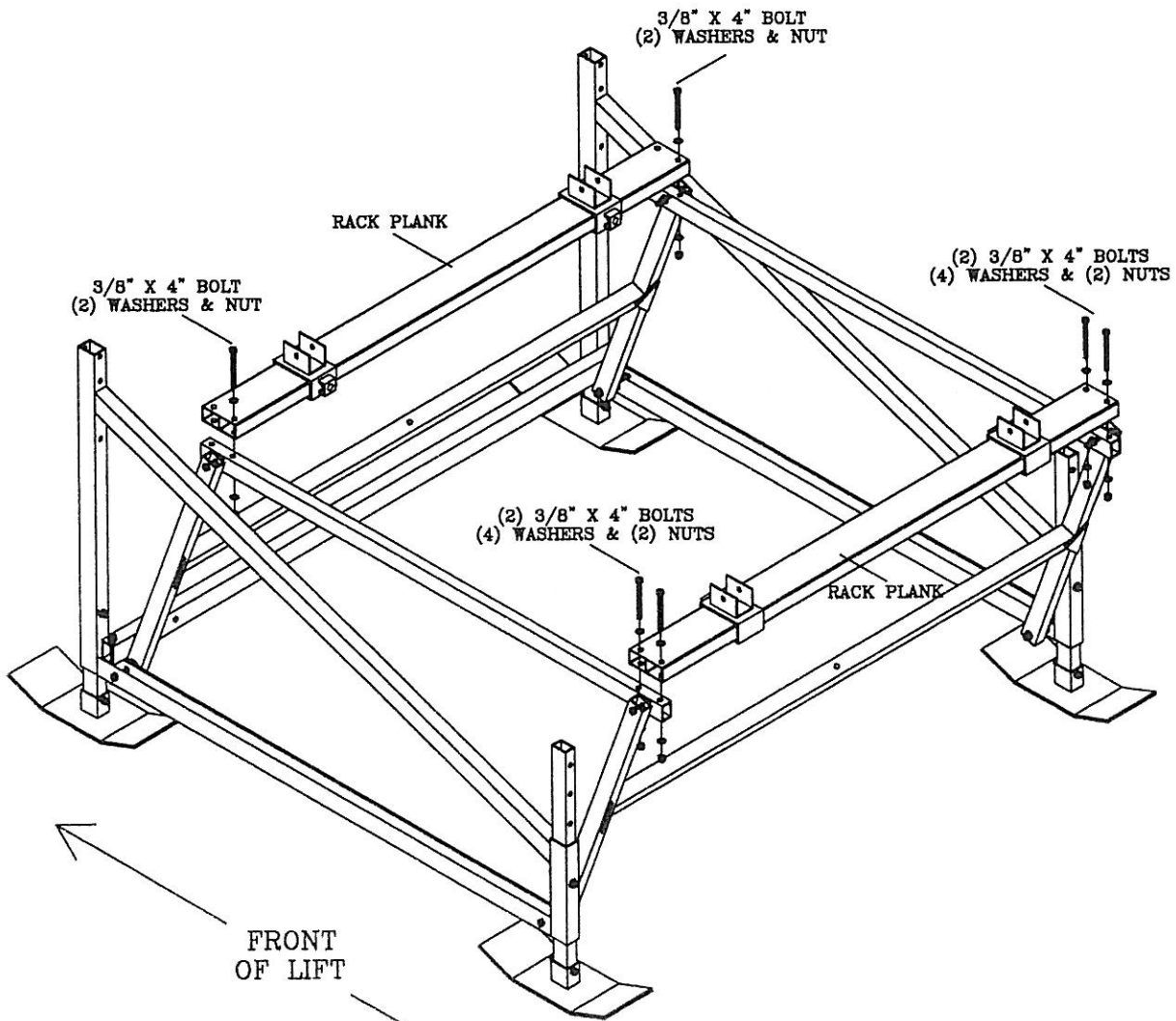
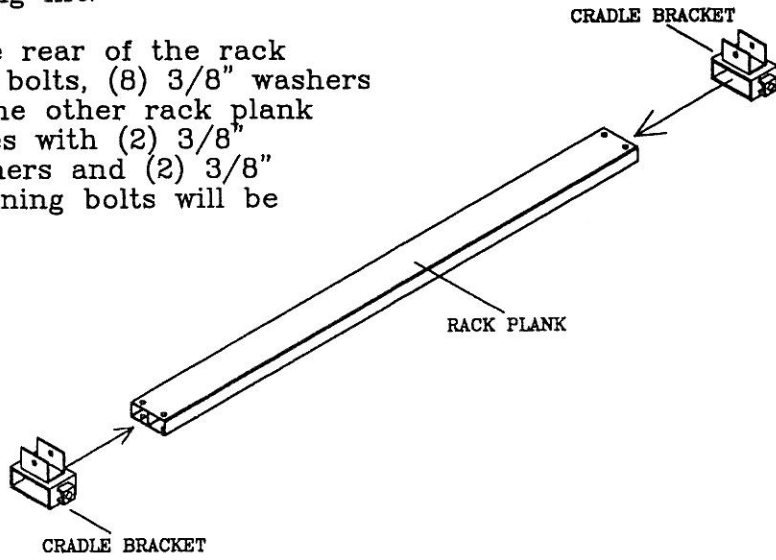
Note: Do not overtighten lock nuts. This connection must move freely.



STEP #5

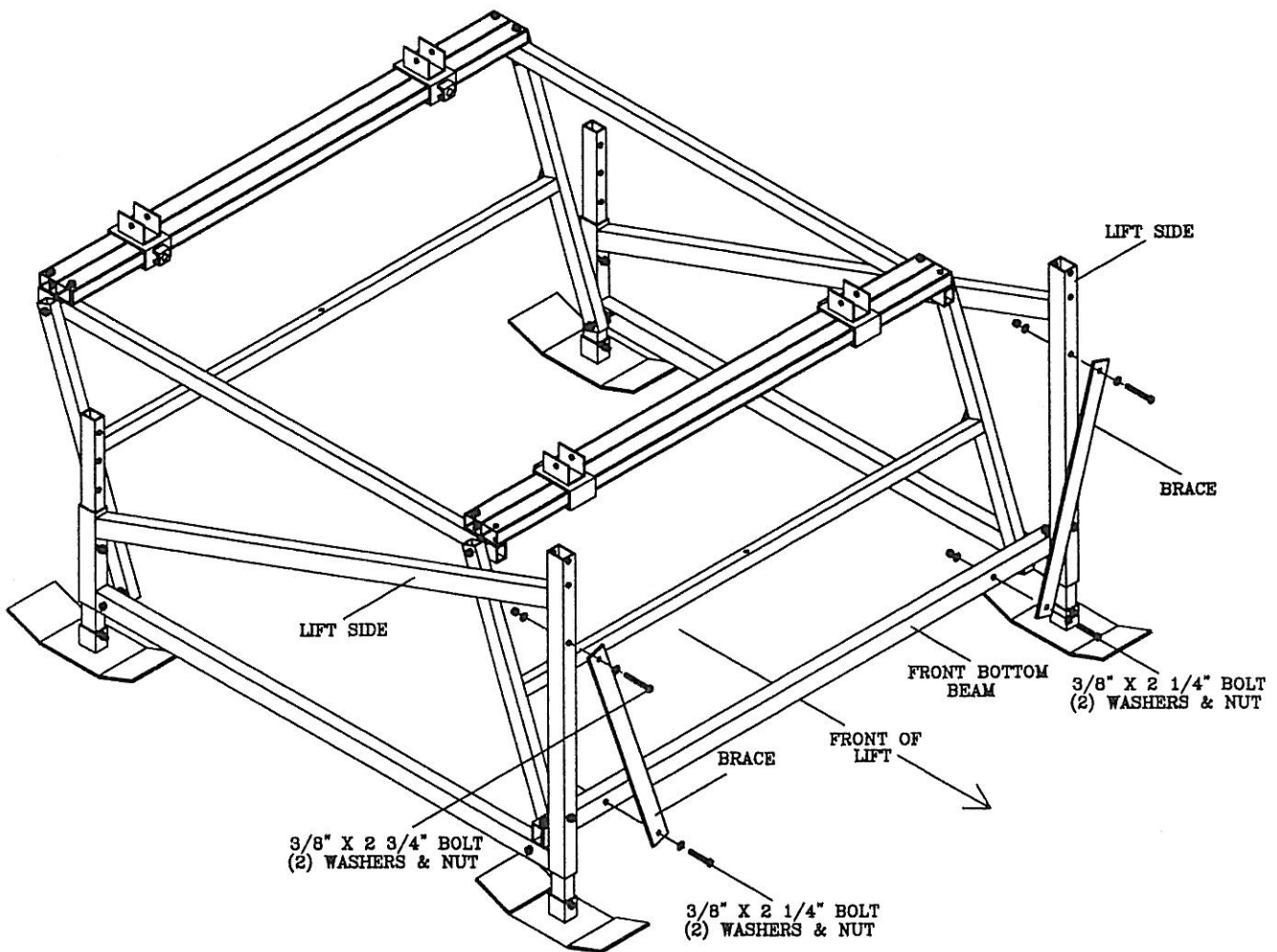
Slide 2 cradle brackets onto each rack plank. The nutholders on the cradle brackets should face the inside of the lift to prevent any damage to craft when entering lift.

Attach one rack plank to the rear of the rack sides with (4) 3/8" x 4" hex bolts, (8) 3/8" washers and (4) 3/8" nuts. Attach the other rack plank to the front of the rack sides with (2) 3/8" x 4" hex bolts, (4) 3/8" washers and (2) 3/8" nuts as shown. The 2 remaining bolts will be installed in step 7.



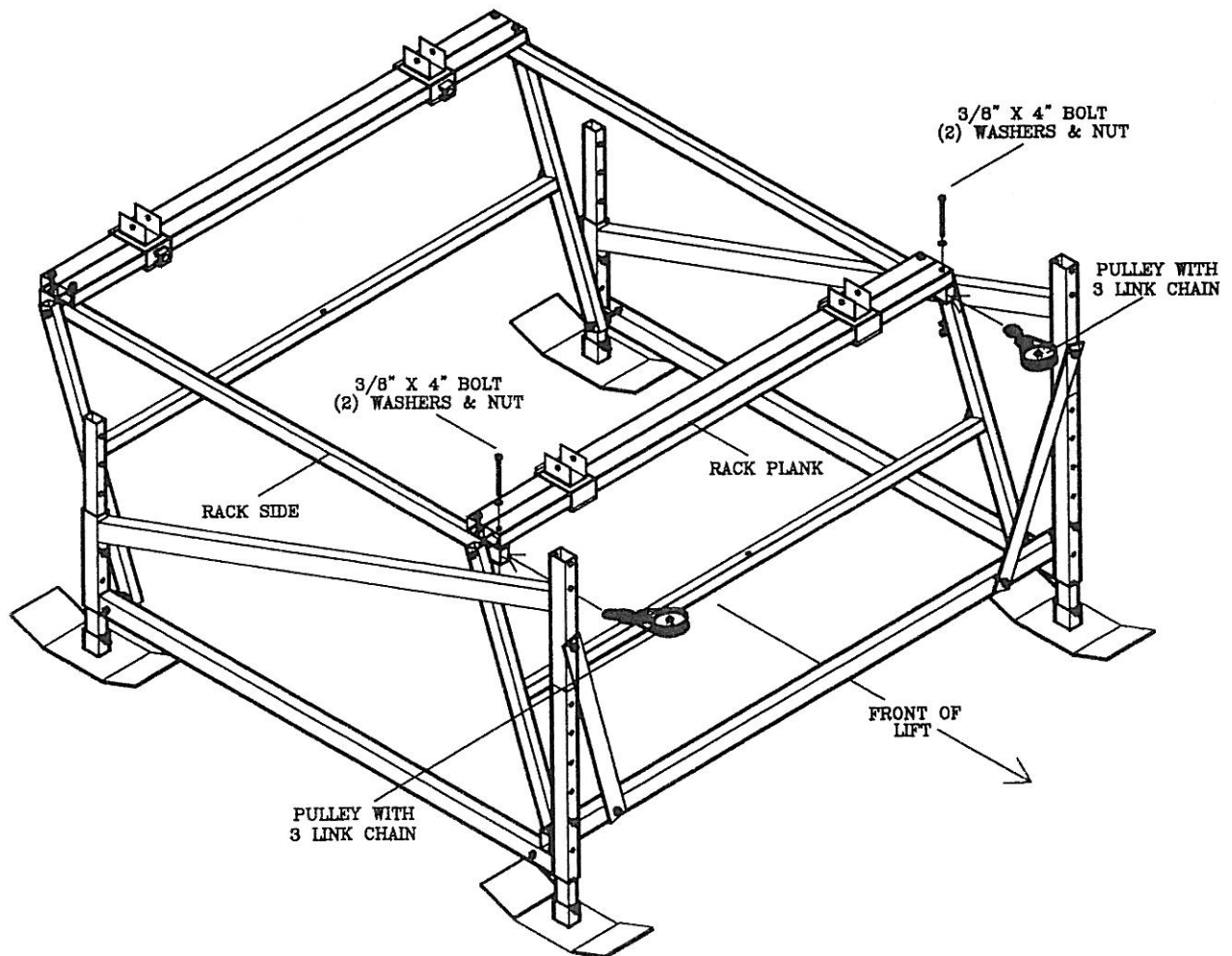
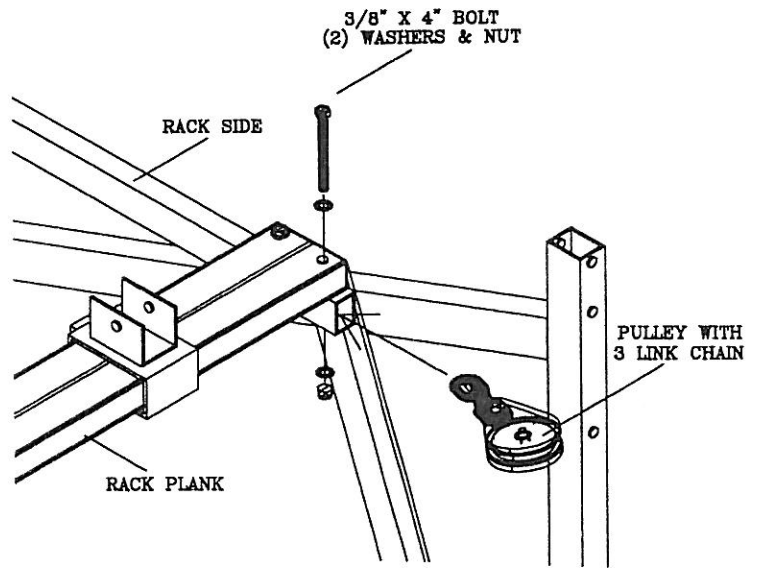
STEP #6

Attach the 2 braces to the front bottom beam and the lift sides as shown. Connect the drilled end of the brace to the front bottom beam with (1) 3/8" x 2 3/4" bolt, (2) 3/8" washers and (1) 3/8" nut. Connect the slotted end of the brace to the lift side with (1) 3/8" x 2 1/4" bolt, (2) 3/8" washers and (1) 3/8" nut.



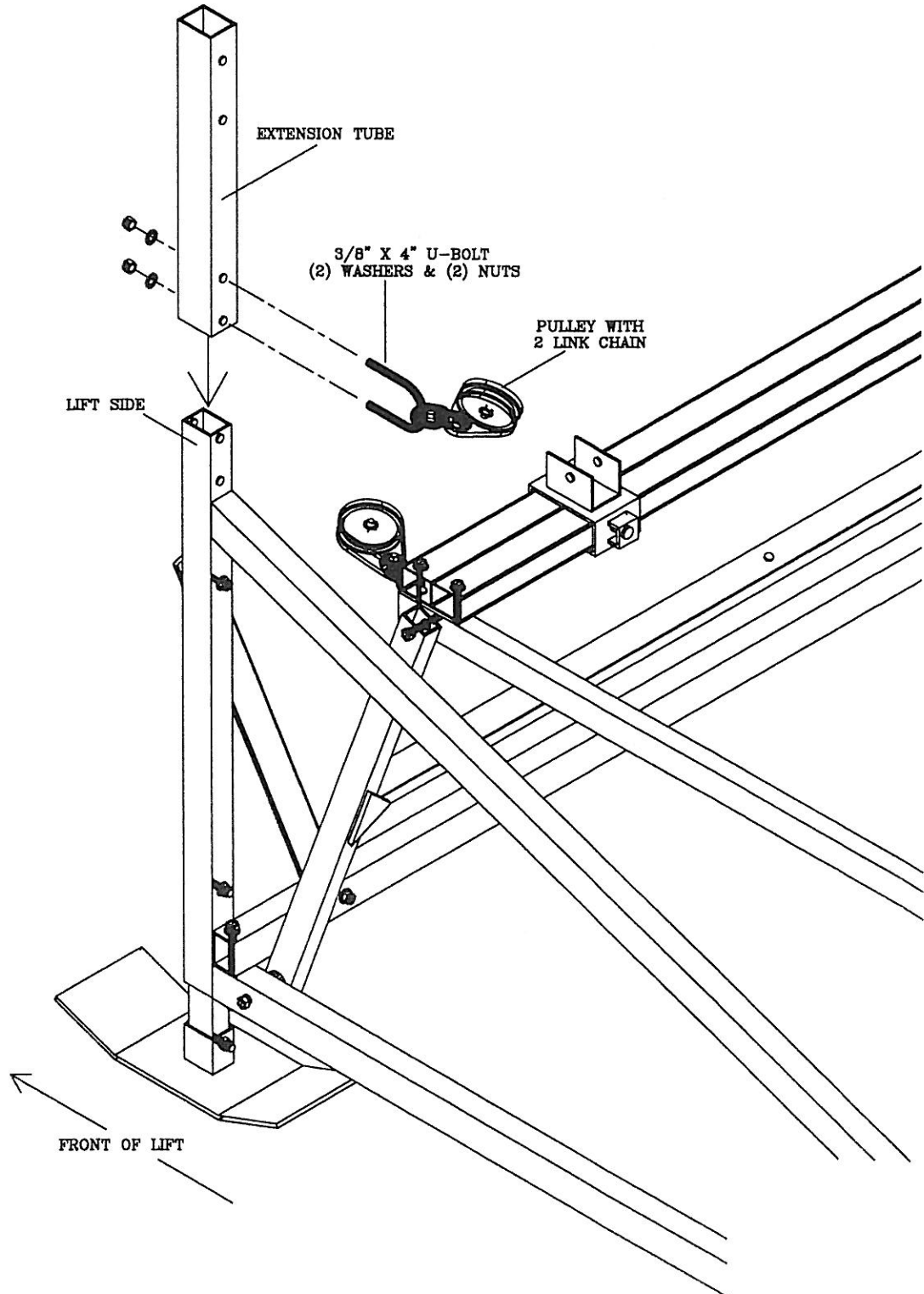
STEP #7

Attach each of the pulleys with 3 link chains to the front of the rack sides with (1) 3/8" x 4" bolt, (2) 3/8" washers and (1) 3/8" nut.



STEP #8

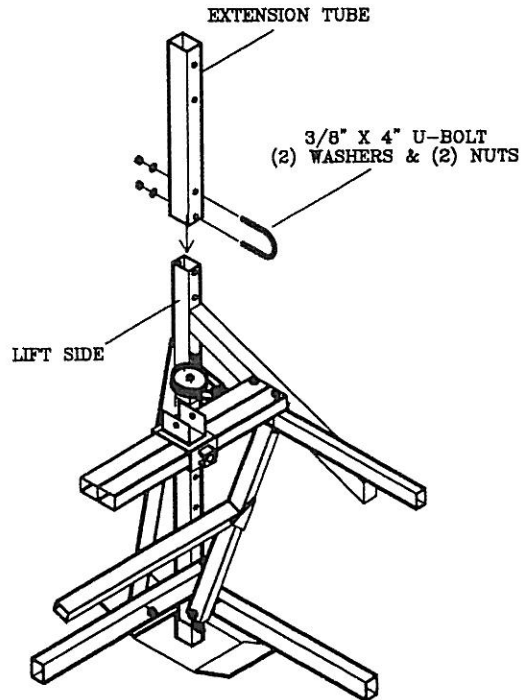
Choose which side of the lift the winch will be on.
Attach the pulley with 2 link chain and one
extension tube to this side with (1) 3/8" x 4"
U-bolt, (2) 3/8" washers and (2) 3/8" nuts.



STEP #9

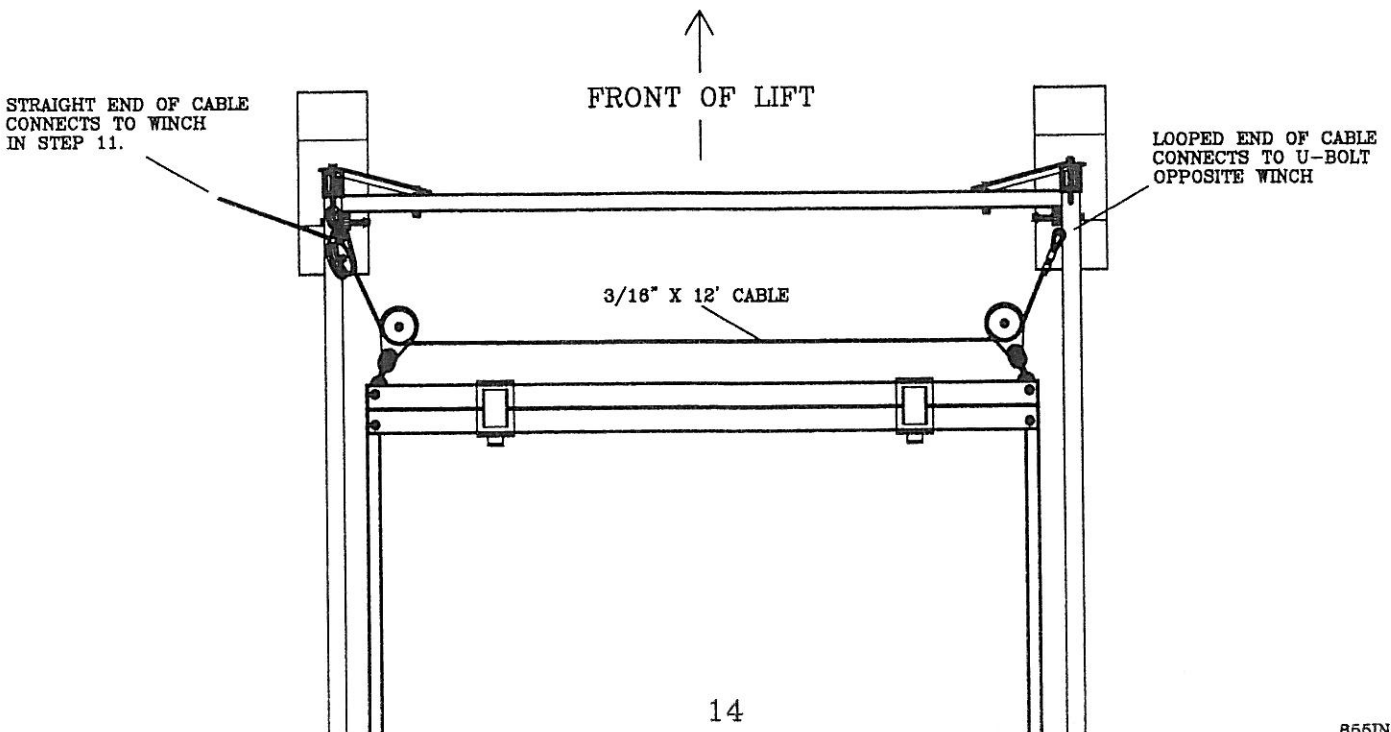
Attach the remaining extension tube to the other lift side with (1) 3/8" X 4" U-bolt, (2) 3/8" washers and (2) 3/8" nuts.

Attach cable to U-bolt before installing.



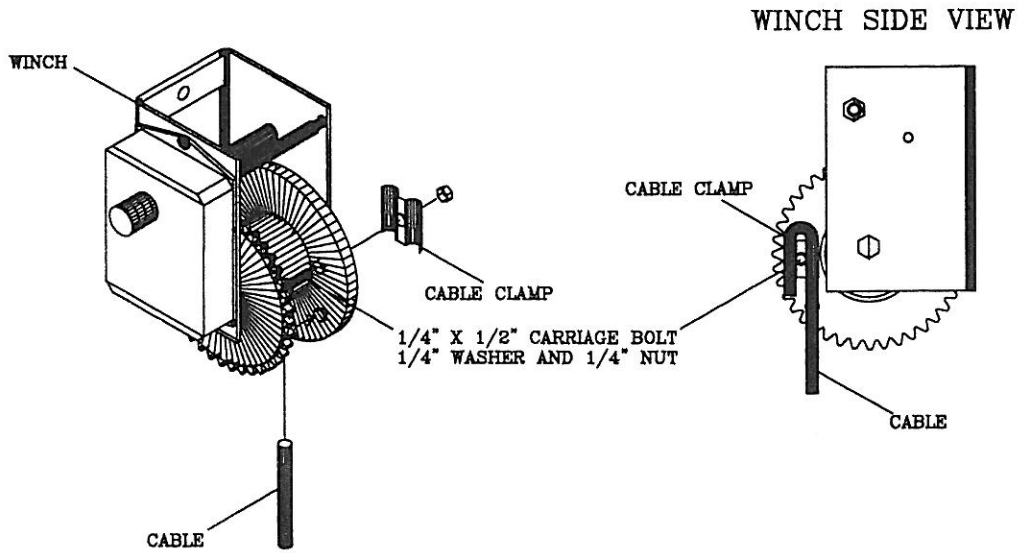
STEP #10

Thread the 3/16" x 12' cable through all three pulleys as shown.



STEP #11

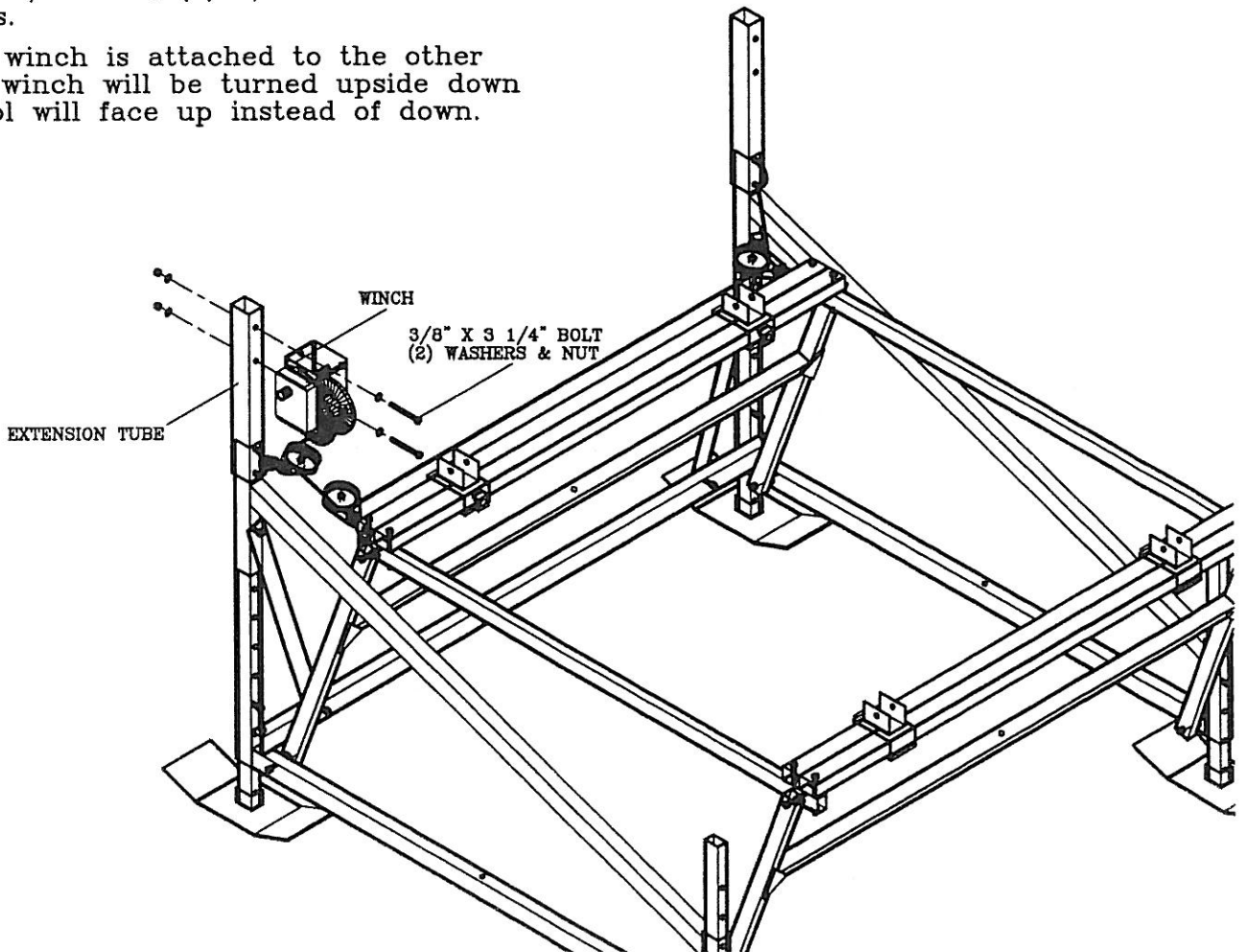
Attach the cable to the winch with (1) cable clamp
(1) 1/4" x 1/2" carriage bolt, (1) 1/4" washer and
(1) 1/4" nut.



STEP #12

Attach the winch to the extension tube with
(2) 3/8" x 3 1/4" bolt, (4) 3/8" washers and
(2) 3/8" nuts.

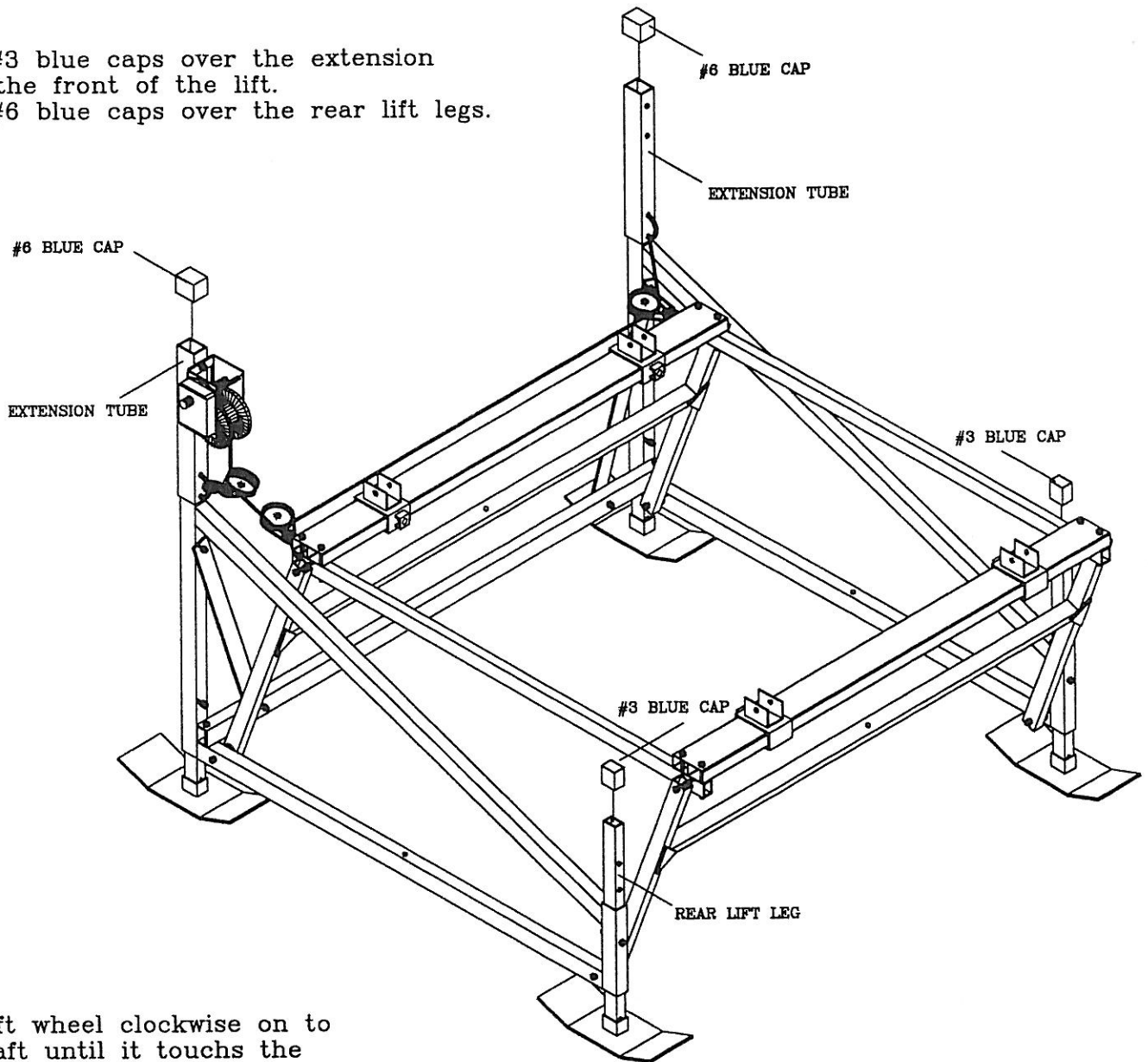
NOTE: If the winch is attached to the other
upright, the winch will be turned upside down
and the spool will face up instead of down.



STEP #13

Place 2, #3 blue caps over the extension tubes at the front of the lift.

Place 2, #6 blue caps over the rear lift legs.



STEP #14

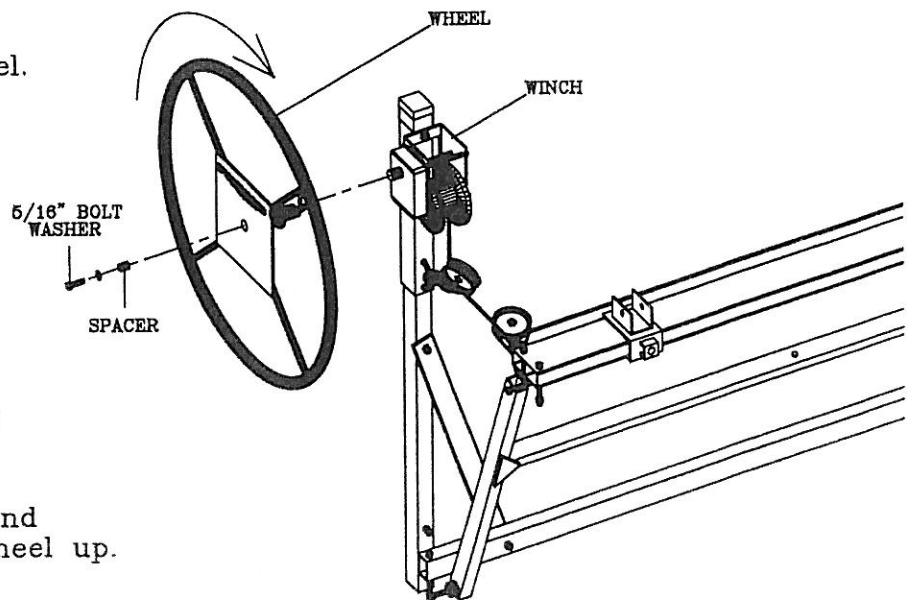
Thread lift wheel clockwise on to winch shaft until it touches the brake pads. Secure in place with (1) 5/16" bolt, (1) 5/16" washer and (1) spacer.

NOTE: Spring located in wheel kit is not used with this lift model. Do not use when attaching the wheel.

NOTE: You will need to cut a small round hole in the middle of the wheel sticker to attach the bolt.

NOTE: Over tightening this bolt could cause the bolt to break or the brake to malfunction.

NOTE: The wheel must be threaded all the way onto the winch shaft. The wheel hub must be in contact with the brake pad. A clicking sound must be heard when turning the wheel up.



STEP #15

Thread excess cable onto winch hub by turning wheel clockwise. To develop proper cable wrap, hold cable tight while turning wheel up.

STEP #16

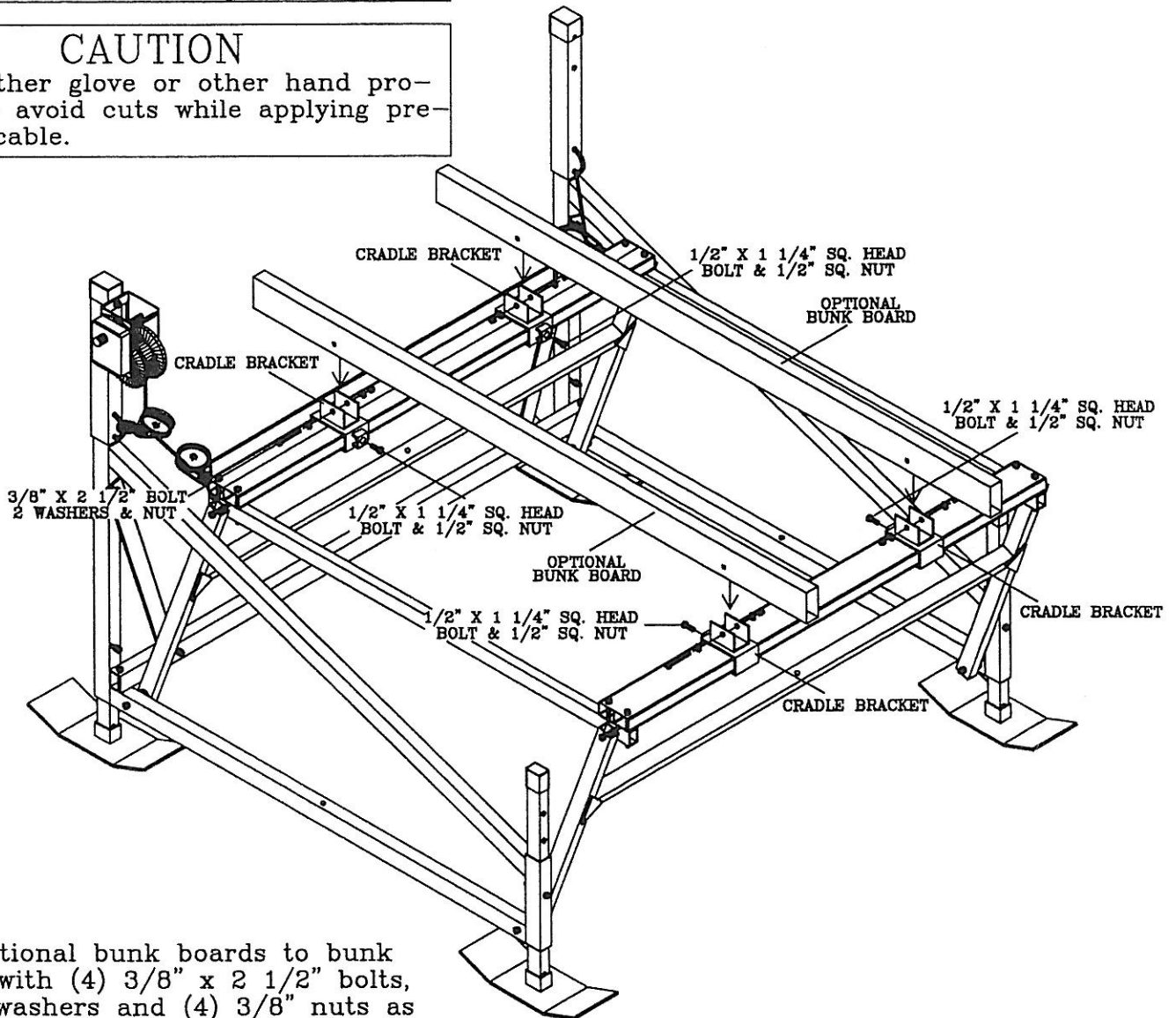
Position bunk brackets to fit watercraft. Secure with (1) 1/2" x 1 1/4" square head set screw and (1) 1/2" square nut on each bracket.

CAUTION

Be sure cable wraps tight and uniformly on hub. Do not allow cable to stack on one side of hub or 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 while applying pressure to cable.



STEP #17

Attach optional bunk boards to bunk brackets with (4) 3/8" x 2 1/2" bolts, (8) 3/8" washers and (4) 3/8" nuts as shown.

NOTE: ShoreMaster offers carpeted bunk boards or your dealer may supply bunk boards. Contact your dealer for details.

STEP #18

Firmly secure nuts and bolts at this time. Do not over tighten connections

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 watercraft when installing.

CAUTION

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

#1 Measure water depths 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 watercraft can float into position before raising, while also allowing high enough position so the watercraft can be fully raised up and out of water.

Note: Lift rack must always be in partially raised position before any weight is applied. Lift rack must never rest flat when in 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.

#3 Tie lift rack securely to upright. 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 boatlift 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 operated 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-

**WARRANTY DOES NOT
APPLY IF IMPROPER
LOADING CAUSES DAMAGE!!**

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 craft floating into position.

CAUTION

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

CAUTION

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

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

-Raising Lift-

#1 Make sure craft 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 lifts (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 craft, 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 craft, 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 craft 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 lift upright to secure craft from cable or winch failure.

CAUTION

Do not allow people on craft when in a raised position on lift. Entering craft 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.

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 craft is in lift could damage craft 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.

#5 ShoreMaster dealers usually offer service visits. Please contact them if you are unable or unwilling to perform maintenance or service to lift.

REMOVAL & STORAGE (winterizing)

****ShoreMaster does not warrant this product against any damage caused or related to ice!!**

CAUTION

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

#1 Tie lift rack securely to upright. This will prevent rack from pivoting when moving lift out of water.

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 boatlift 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.