

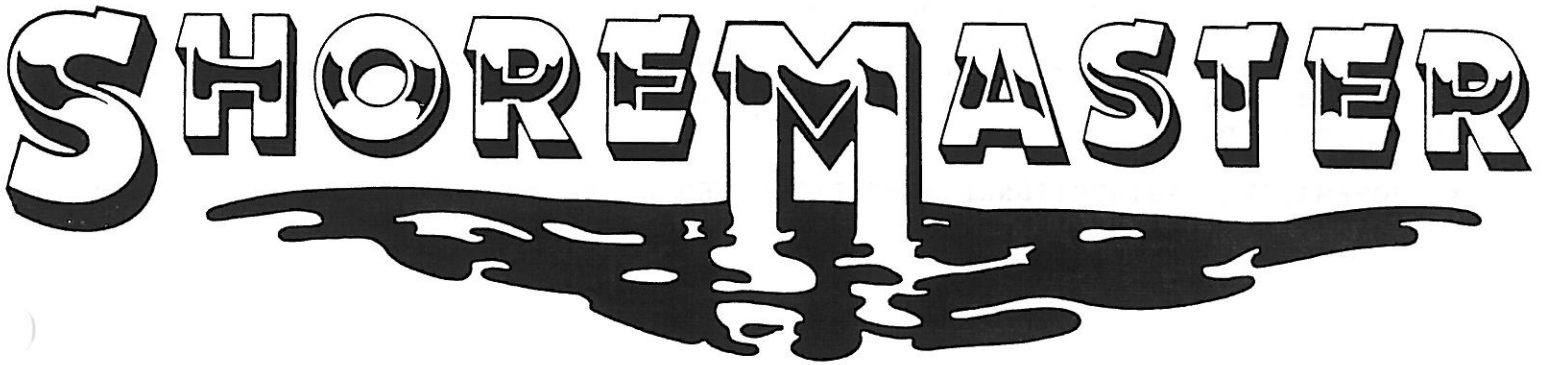
36966 VERTICAL LIFT INSTRUCTIONS

OWNER'S MANUAL/ 36966 VERTICAL LIFT INSTRUCTIONS

EFFECTIVE 1-1-92

Before attempting to operate the lift, read this owners manual thoroughly.

# SHOREMASTER

The word "SHOREMASTER" is written in a large, bold, blocky font. The letters are white with a thick black outline. Below the letters, there is a large, dark, irregular shadow that appears to be cast by the text, giving it a three-dimensional appearance.

PLEASE KEEP THIS FOR FUTURE REFERENCE

The following parts list, operating/safety procedures, assembly instructions, and maintenance schedule is for your ShoreMaster boat lift. Please read through the manual entirely before attempting to operate the lift. Pay close attention to all safety related material. If you have any questions contact your dealer or call ShoreMaster toll-free (800) 328-8945.

**\*\*IMPORTANT\*\*** - Grease pulleys and winch when it is new and every spring and fall. Not doing so will invalidate your warranty.

## VERTICAL PARTS LISTS

All ShoreMaster vertical boat lifts have these same general parts. Although they differ in size from one model to another, the general design is the same.

- 4 - Legs (2 front & 2 rear)
- 2 - Sides (V-side & opposite V-side)
- 2 - Bottom Beams (front & back)
- 2 - Rack Sides (left & right)
- 2 - Rack Beams (front & rear)
- 4 - Side Braces ( (2) left & (2) right )
- 1 - Wheel (large or small pad)
- 1 - Winch Box (assembly hardware, winch, bolts, etc.)

Various accessories are available to be mounted on your ShoreMaster lift. Please refer to your brochure or contact your dealer for details and current pricing.

\*\* SHOREMASTER INSTRUCTIONAL ASSEMBLY VIDEO'S ARE AVAILABLE FOR PURCHASE OR RENT AT YOUR LOCAL DEALER.

ELECTRIC POWER UNIT SAFETY

\*\* WARNING \*\*

1. Always turn off MAIN POWER SUPPLY when moving or working on or around lift.
  2. It is recommended that power be shut off or motor unplugged when not in use to preserve the life of the motor.
  3. Proper care should be exercised in regard to wires which are exposed to wave or wind oscillations. Kinks or breaks in wire could occur, resulting in SERIOUS INJURY!
  4. It is recommended that an electrician do the installation and final inspection of this Electric Power Unit.
- \*\* Not complying with the above recommendations may invalidate the warranty or result in personal injury.

"NEW STYLE" 36966 VERTICAL HARDWARE

<u>QUANTITY</u>	<u>DESCRIPTION</u>
8	3/8" X 1" MACHINE BOLTS
18	3/8" X 2 3/4" MACHINE BOLTS
4	3/8" X 5 1/2" MACHINE BOLTS
2	3/8" X 3" CARRIAGE BOLTS
2	3/8" X 5 1/2" CARRIAGE BOLTS
34	3/8" NUTS
8	3/8" WASHERS

\*\*\*\*\*

1	SM WHEEL KIT
2	#1 BLUE CAPS
2	#2 BLUE CAPS
1	SHOREMASTER 5000 WINCH
1	WARRANTY CARD
1	INSTRUCTION SHEET

**\*\* DO NOT ATTEMPT TO OPERATE LIFT WITHOUT FIRST STUDYING THE FOLLOWING \*\***

OPERATING & SAFETY

1. After assembly (and yearly), check to be sure that all nuts and bolts are tightened as required. Check pulley sheaves, cable, winch, and lift rack to see that they are all operating freely.
2. Make all possible adjustments to lift legs, cradles, EPU's, and other accessories before installing lift in the water. Adjusting lift parts while in the water is more difficult and potentially more dangerous. NEVER make any adjustments with the boat in the lift.
3. Test to see that the winch is working properly by winding up cable on hub by turning the wheel (or handle) clockwise. The winch should be making a clicking sound. A brake will activate automatically when you stop, allowing you safe and controllable use.
4. **\*\*\* IF AT ANYTIME THE WHEEL (OR HANDLE) SPINS UNCONTROLLABLY DO NOT ATTEMPT TO STOP IT !! \*\*\***
5. Never attempt to operate lift unless winch is functioning properly. IMPORTANT: **\*\*IT IS RECOMMENDED THAT ANYONE OPERATING THE LIFT FIRST THOROUGHLY STUDY THE OWNERS MANUAL.** Study winch maintenance, instructions, and safety tips located in your owners manual.
6. Never allow rack to be in a fully lowered position with the boat in it (winter storage etc.). Damage may result to the rack (this applies to cantilever models only).
7. Be sure that the boat is properly balanced and centered on the lift before attempting to raise the rack. Generally, the boat should be as far forward in lift as possible for proper balance.
8. It is recommended that the lift be operated in at least (3) feet of water. This will allow for easier raising of the wheel (or handle) and less strain on the winch (cantilever models only).
9. Do not raise the rack past the recommended height (over center on a cantilever). Doing so could damage the lift or cause the winch or cable to break.
10. DO NOT turn the wheel (or handle) counter-clockwise to the point where the cable begins to develop slack. Doing so may allow the cable to jump the spool and cause personal injury and damage to the winch.
11. If at anytime there is more than the normal resistance when operating the wheel (or handle) and winch, do not attempt to force it. Lower the lift and check for possible problems with winch or other lift parts.

12. NEVER exceed the recommended weight capacity of the lift. Doing so could result in personal injury or irreparable damage to the lift. Also, it would invalidate the lift's warranty.

13. Pull drain plug from boat when not in use. Failing to do so may result in water accumulating and the load exceeding recommended lift capacity.

14. Lock your wheel (or handle) and rack in place by chain and padlock when unattended. This will help prevent theft or possible spin down of wheel (or handle) and rack.

15. Check cable and pulleys for any signs of wear or failure. If this is the case, replace them immediately.

16. Never allow anyone (especially children) on or around lift when in a raised position or when being raised or lowered.

## WINCH INSTRUCTIONS, SAFETY & MAINTENANCE

### WINCH INSTRUCTIONS

Thread the wheel (or handle) on to the drive shaft turning clockwise until a clicking sound is heard and the rack begins to raise. Making sure the wheel (or handle) remains in firm contact with the brake pads and ratchet gear install the wheel kit to prevent the wheel (or handle) from backing off the winch driveshaft (step 6). Wind cable on winch hub being sure that it raps uniformly to prevent fraying or binding.

Wind cable off the hub by turning counter-clockwise (no noise will be produced). The wheel (or handle) will then remain in position when the wheel (or handle) is released. Sufficient load must be applied to lift for brake mechanism to activate properly, otherwise turning the wheel (or handle) will only remove the wheel (or handle) from the shaft. Always satisfy yourself that the winch brake is holding the load before releasing the wheel (or handle). If it is not, rapid spin down could occur. DO NOT attempt to stop wheel (or handle) if this should happen.

If at anytime the wheel (or handle) turns down with great difficulty, the brake may not have released. The brake pads may be worn or not smooth enough to allow brake to release. It is important that the wheel (or handle) and shaft threads are greased periodically. DO NOT, however, grease any part of the brake mechanism.

#### \* IMPORTANT \*

NEVER wind cable off the winch hub so that excess slack occurs in the cable. Excess slack in the cable could allow the cable to slip off the winch hub or pulleys and cause damage to your lift or winch and may cause personal injury.

### SAFETY

The winch for this lift is strickly for lifting operations. It is not to be used as a method of supporting or transporting people, or for loads over areas where people may be present.

Check winch for proper operations on each use. If it is damaged in anyway do not attempt to operate.

Never allow children or those unfamiliar with the operation of the lift to use it.

Never exceed recommended lift capacity. Personal injury may result.

Never apply load to winch with cable fully extended. There should be at least four full turns of cable on the hub.

## WINCH MAINTENANCE

It is recommended that the winch be inspected periodically (twice yearly). Necessary preventive maintenance is required for maximum performance of the winch.

1. Remove all of load from the lift until cable BEGINS to slack. Remove wheel kit and wheel (or handle) from shaft.
2. Remove clutch plates and ratchet gear from shaft. Sand off any rust or corrosion on these parts. DO NOT grease the clutch mechanism.
3. Replace clutch plates and ratchet gear on the shaft. One clutch plate should be on each side of the ratchet gear. Replace wheel (or handle) and wheel kit.
4. Check to be sure that ratchet pawl and spring are aligned on the ratchet gear. You can do this by turning the wheel (or handle) clockwise. A clicking sound should be heard. If it is not functioning properly, check to see that your spring is in place. There must be tension in the springs for pawl to ratchet properly.
5. Check to see that gears, shafts and chains are attached and turning freely. Grease all bearings and gear teeth with good wheel bearing grease.
6. Replace winch cover. Check mounting of winch to be sure that it is secure and properly aligned. Also, check cable to make sure it is secure and there is no abnormal stiffness or broken strands.
7. Replace any worn or broken parts with authorized ShoreMaster parts available at your local dealer or ShoreMaster.

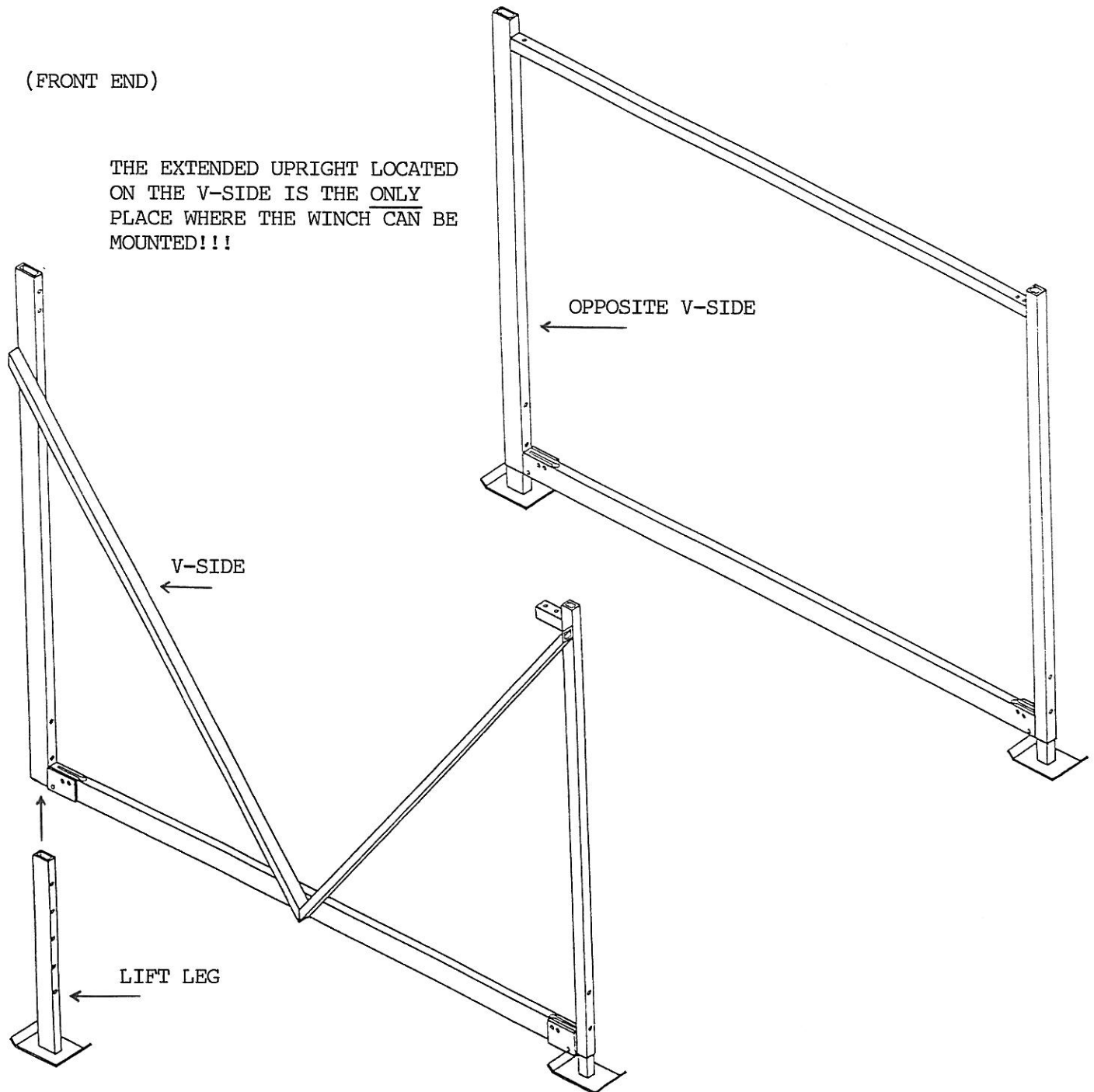


STEP 1

**\*\*IMPORTANT\*\***

DO NOT FULLY TIGHTEN THE NUTS & BOLTS UNTIL YOU ARE FINISHED WITH ASSEMBLY.

- (1) INSERT ALL (4) LEGS INTO THE LIFT SIDE FRAMES AS SHOWN AND BOLT THE FRONT (2) LEGS IN PLACE USING 3/8" X 5 1/2" MACHINE BOLTS AND THE REAR (2) LEGS IN PLACE USING 3/8" X 2 3/4" MACHINE BOLTS.
- (2) PLACE THE LIFT SIDE FRAMES ABOUT 9' APART.

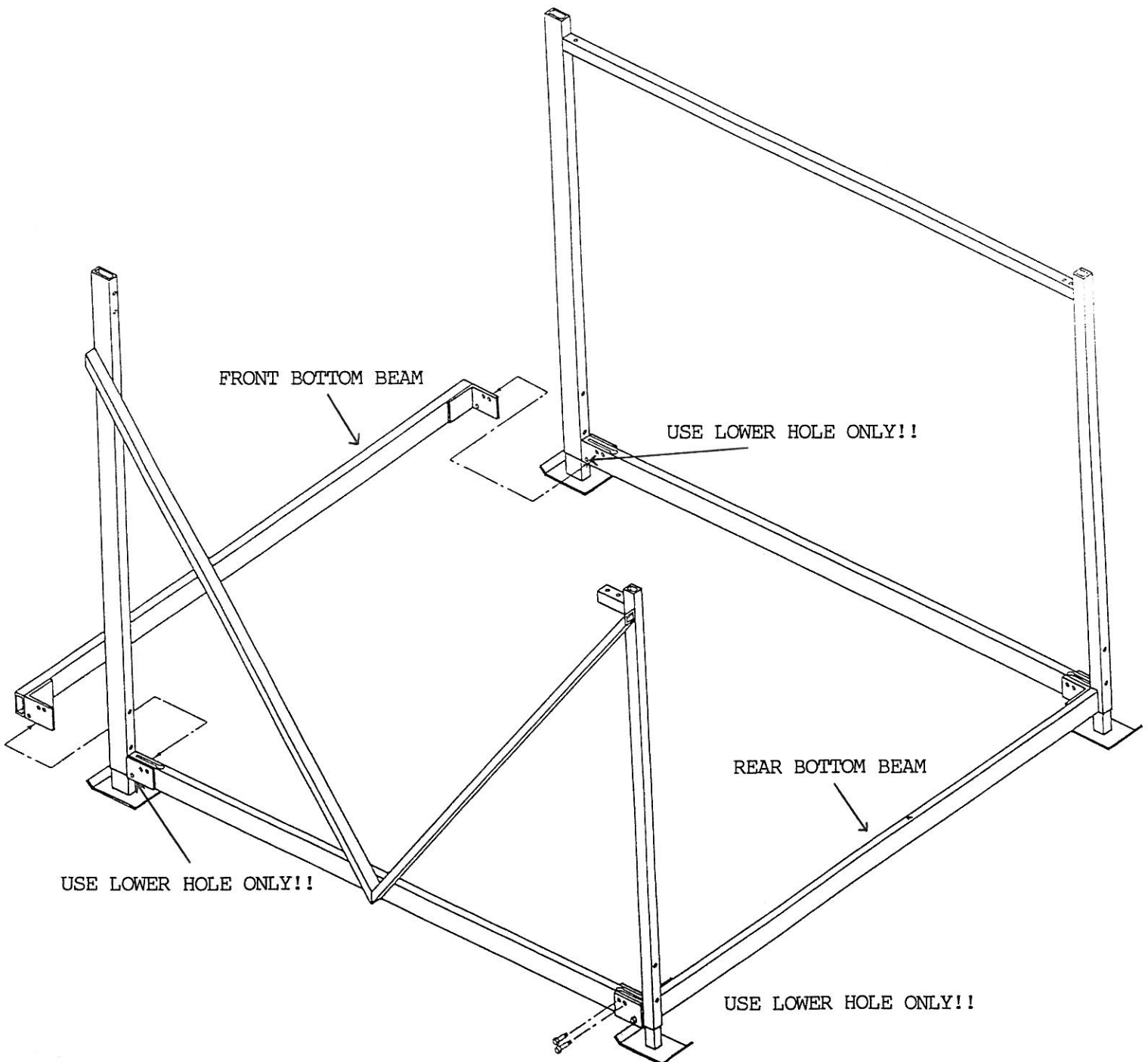


STEP 2

- (1) BOLT THE FRONT & REAR BOTTOM BEAMS TO THE LIFT SIDE FRAMES AS SHOWN USING 3/8" X 2 3/4" MACHINE BOLTS.

**\*\*NOTE\*\***

ONLY BOLT THE BOTTOM BEAMS IN PLACE USING THE LOWER HOLES AT THIS TIME. YOU WILL ATTACH THE UPPER HOLE NUTS & BOLTS AFTER THE CABLES ARE IN PLACE.

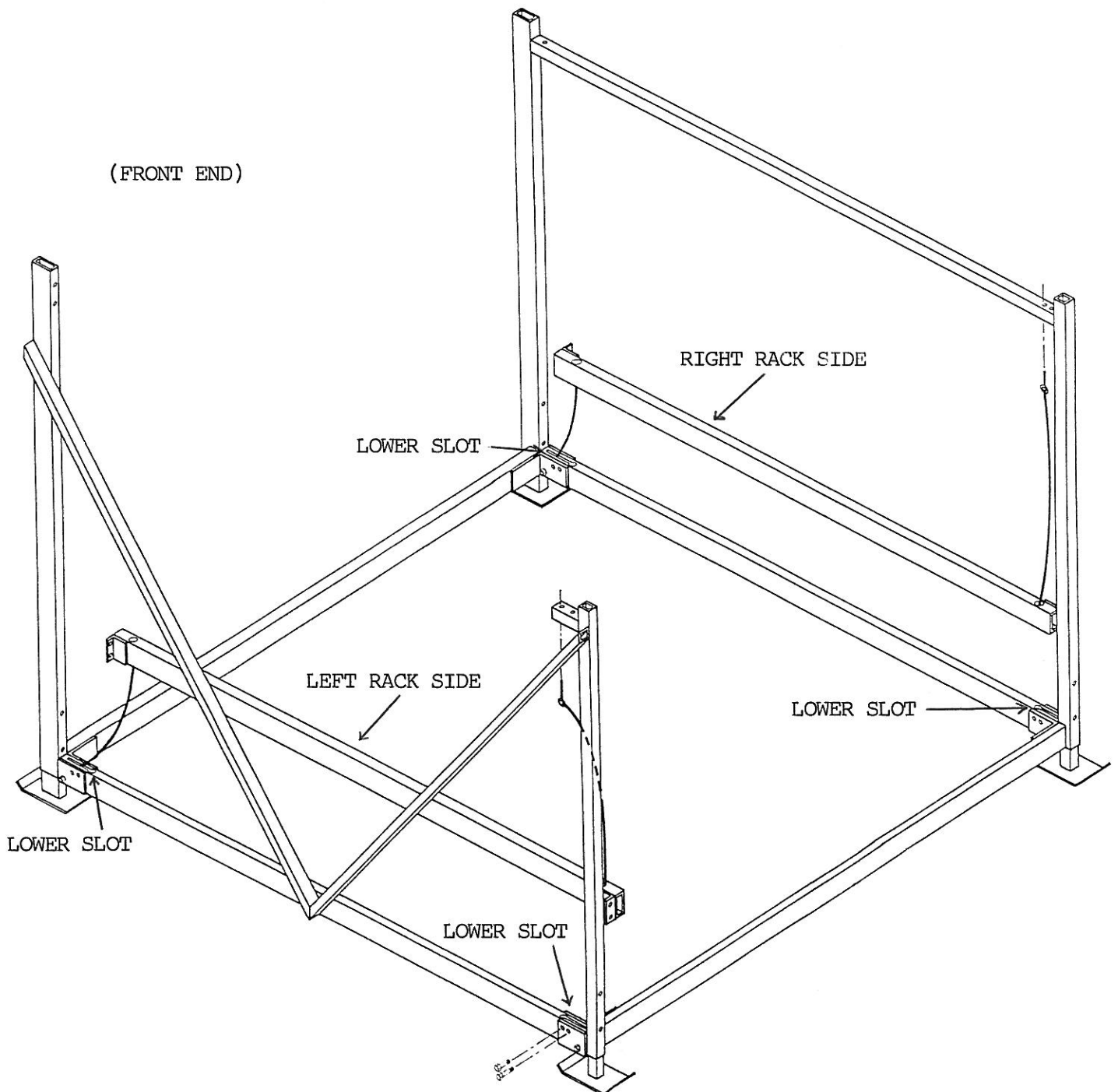


STEP 3

- (1) SLIDE THE CABLES OF THE LEFT & RIGHT RACK SIDES INTO THE LOWER SLOTS LOCATED NEAR THE FRONT OF EACH LIFT SIDE FRAME. **\*\*SEE STEP 3B\*\***
- (2) AFTER THE CABLES HAVE BEEN PLACED IN THE SLOTS AS SHOWN, UTILIZE THE UPPER BOLT HOLES USING 3/8" X 2 3/4" MACHINE BOLTS.

**\*\*NOTE\*\***

LEAVE THE END OF THE CABLE WITH THE I-BOLT UNATTACHED FOR NOW.



STEP 3B

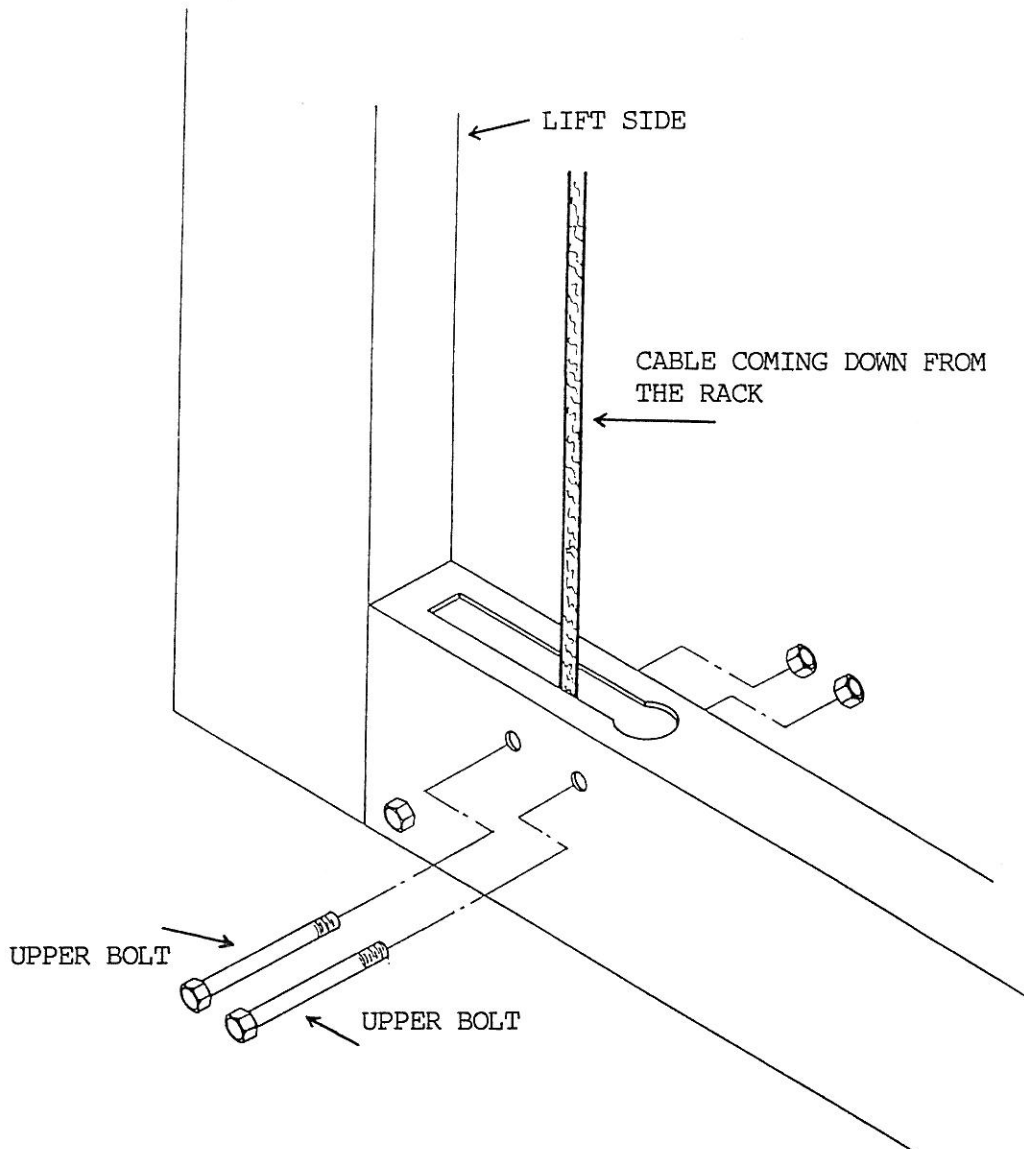
AFTER SLIDING THE CABLES INTO THE LOWER SLOTS LOCATED NEAR THE FRONT & REAR OF EACH LIFT SIDE, THE UPPER BOLTS CAN BE PUT IN PLACE. HOWEVER, BEFORE THE BOLTS ARE PUT IN PLACE, THE CABLES COMING DOWN FROM THE RACK MUST BE IN SUCH A POSITION SO THEY ARE AS STRAIGHT UP & DOWN (VERTICAL) AS POSSIBLE. DEPENDING ON YOUR LIFT, THE CABLES MAY GO BEHIND THE UPPER BOLTS OR BETWEEN THE UPPER BOLTS TO GET THE BEST VERTICAL FIT.

**\*\*NOTE\*\***

NEVER PUT THE CABLES IN FRONT OF THE UPPER BOLTS!!!

**\*\*IMPORTANT\*\***

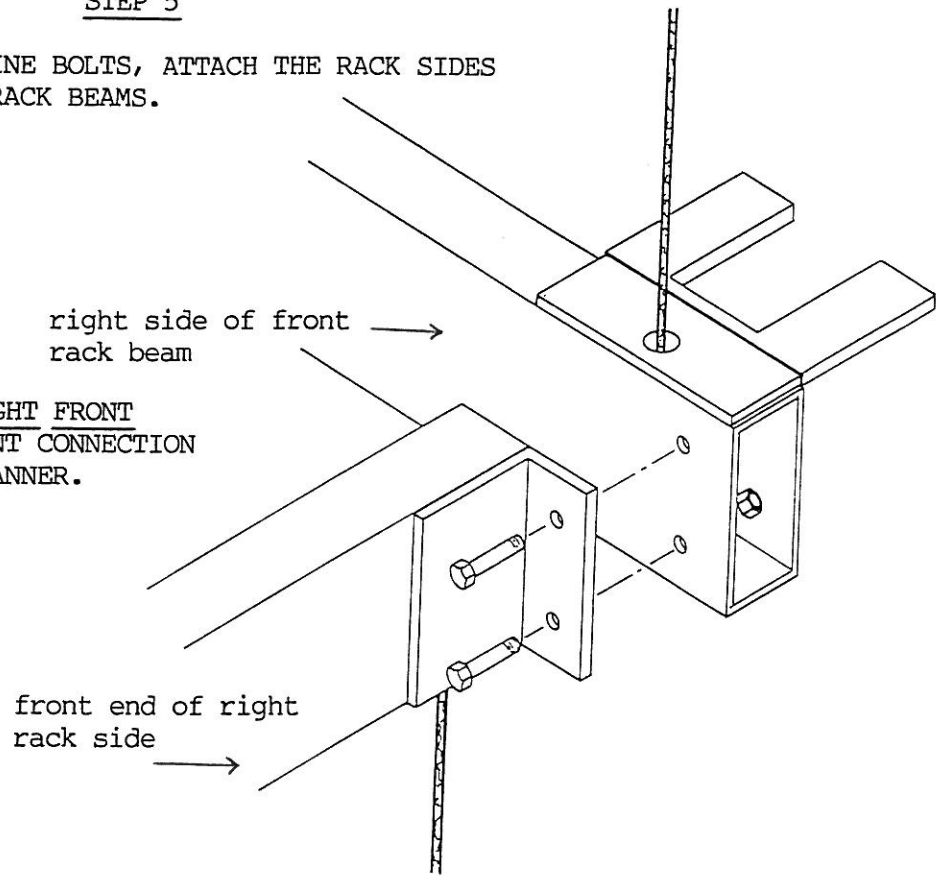
BY MAKING SURE THE CABLES ARE AS STRAIGHT UP & DOWN (VERTICAL) AS POSSIBLE YOU WILL ASSURE FREE MOVEMENT OF THE CABLES AND REDUCE FRICTION ON THE CABLES.



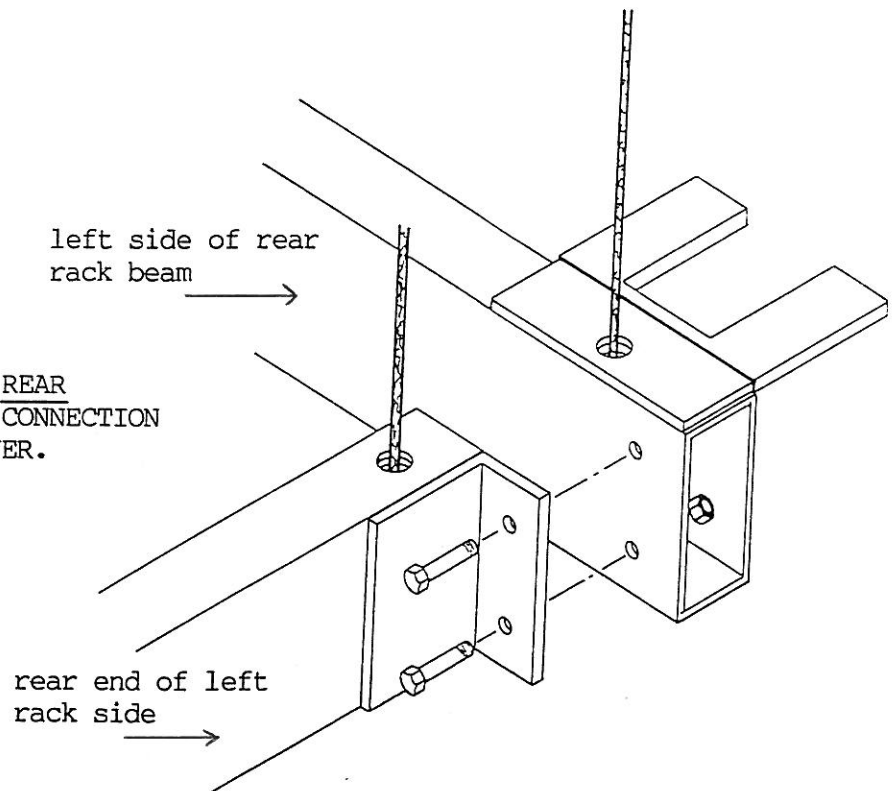
STEP 5

- (1) USING 3/8" X 1" MACHINE BOLTS, ATTACH THE RACK SIDES TO THE FRONT & REAR RACK BEAMS.

THIS PICTURE SHOWS THE RIGHT FRONT CONNECTION. THE LEFT FRONT CONNECTION IS ATTACHED IN THE SAME MANNER.



THIS PICTURE SHOWS THE LEFT REAR CONNECTION. THE RIGHT REAR CONNECTION IS ATTACHED IN THE SAME MANNER.



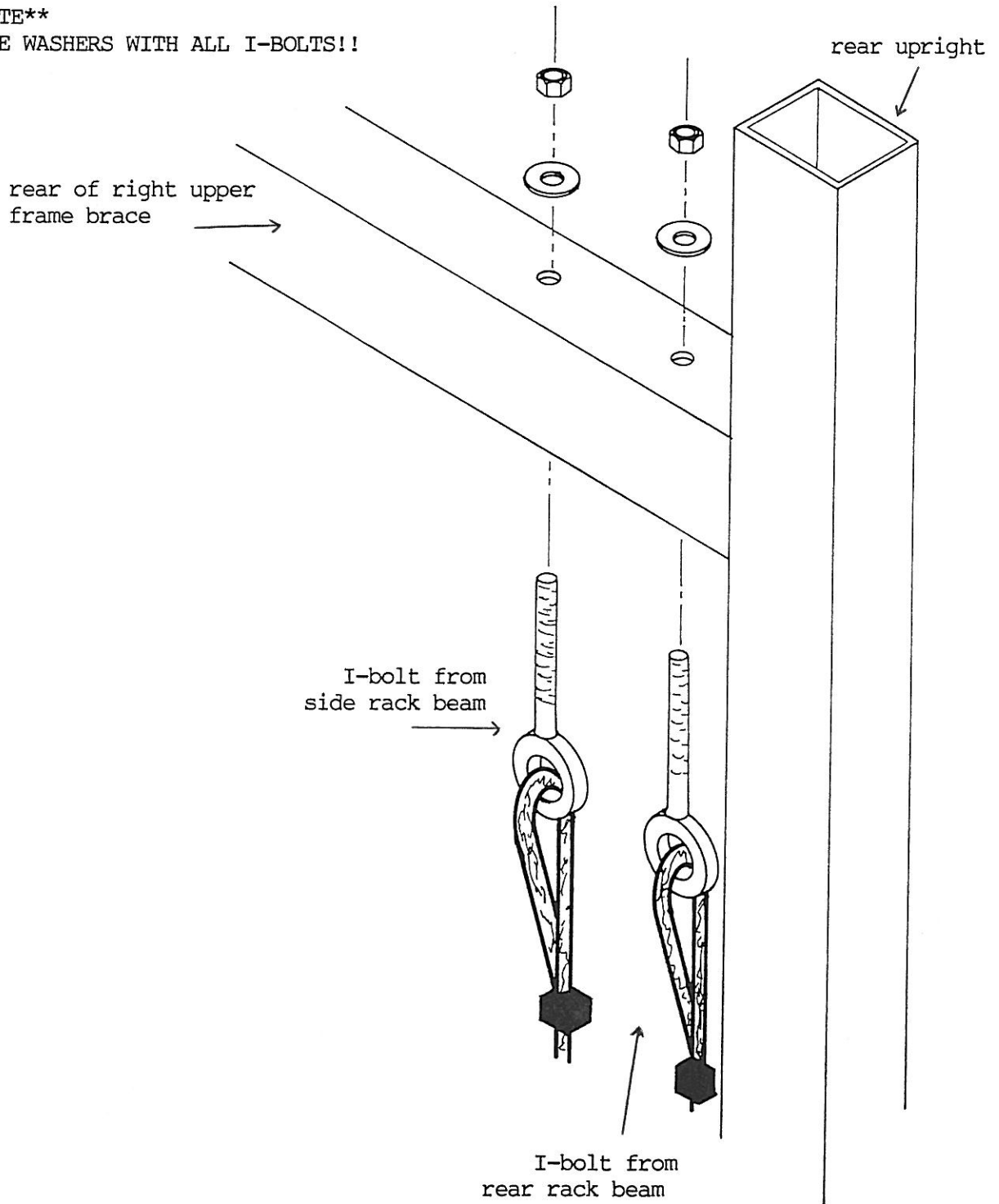
STEP 6

**\*\*IMPORTANT\*\***

BE SURE TO SCREW THE NUTS ONTO THE I-BOLTS SO PART OF THE I-BOLT IS STICKING ABOVE THE NUT. YOU DO NOT NEED TO TIGHTEN THESE I-BOLTS DOWN BECAUSE YOU WILL NEED TO USE THESE I-BOLTS TO MAKE ADJUSTMENTS SO YOUR RACK CAN BE AS LEVEL AS POSSIBLE.

**\*\*NOTE\*\***

USE WASHERS WITH ALL I-BOLTS!!



- (1) ATTACH I-BOLTS AS SHOWN. THE CONNECTIONS AT THE REAR OF EACH SIDE WILL UTILIZE (2) I-BOLTS & CABLES.
- (2) THE CONNECTION AT THE FRONT UPRIGHT OPPOSITE WINCH SIDE WILL UTILIZE (1) I-BOLT & CABLE.

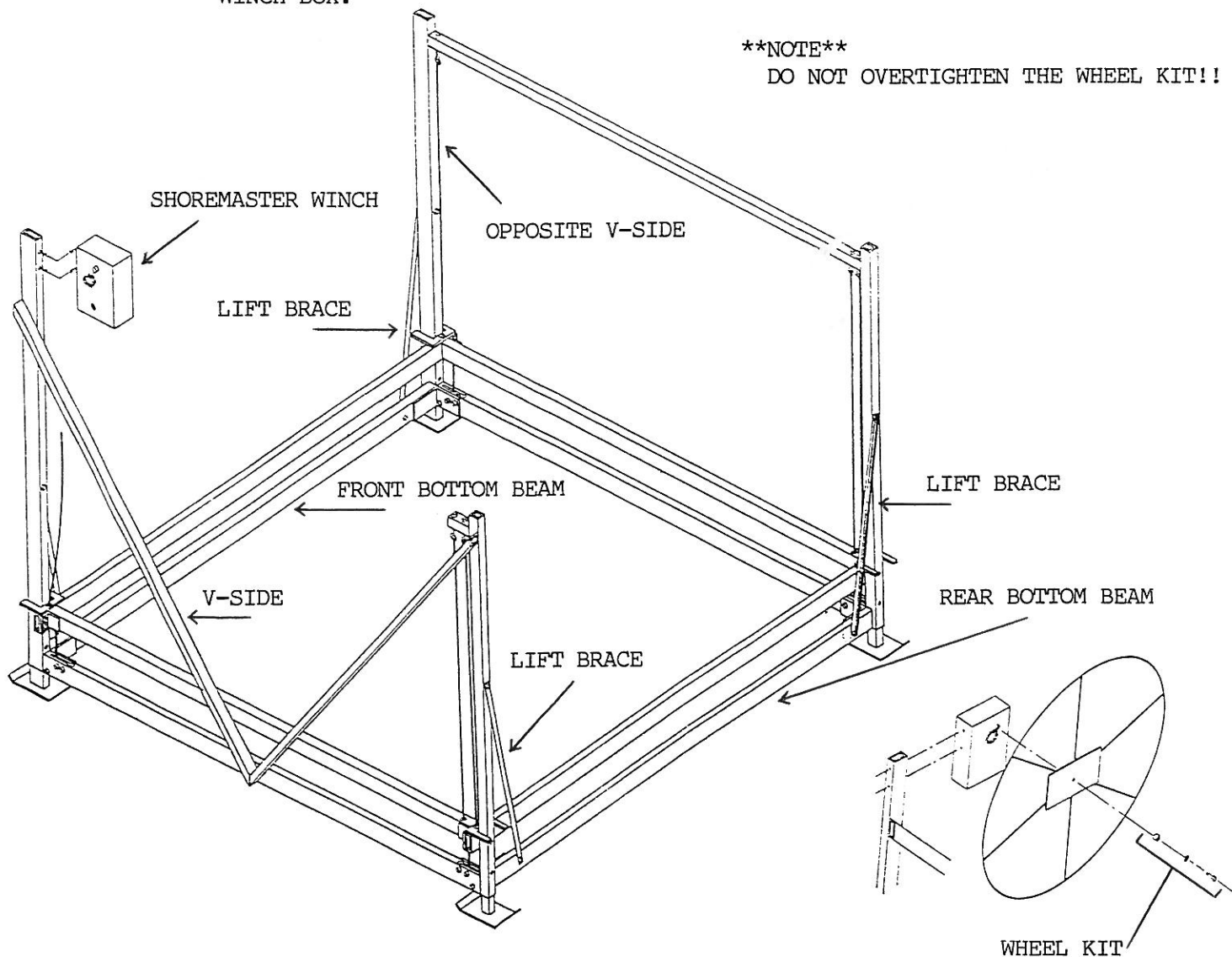
## STEP 7

- (1) ATTACH ALL (4) LIFT BRACES TO THE LIFT. THE SLOTTED OR FORKED END OF THE BRACES BOLT TO THE FRONT & REAR BOTTOM BEAMS USING 3/8" X 2 3/4" MACHINE BOLTS & WASHERS. THE OTHER END OF THE BRACES BOLT TO THE FRONT UPRIGHTS USING 3/8" X 5 1/2" CARRIAGE BOLTS AND TO THE REAR UPRIGHTS USING 3/8" X 3" CARRIAGE BOLTS.

**\*\*IMPORTANT\*\***

NOT HAVING THESE BRACES IN PLACE WILL INVALIDATE YOUR WARRANTY!!!

- (2) FASTEN THE LIFT CABLE TO THE WINCH HUB. THERE IS AN OPENING IN THE HUB OF THE SHOREMASTER WINCH FOR WHICH TO SLIDE THE CABLE THROUGH AND SECURE BY TIGHTENING THE HEX OR SET SCREW.
- (3) ATTACH THE WINCH TO THE EXTENDED UPRIGHT ON THE V-SIDE LIFT SIDE USING 3/8" X 5 1/2" MACHINE BOLTS & WASHERS. PLEASE MAKE SURE THE WINCH IS AS STRAIGHT UP AND DOWN AS POSSIBLE WHEN SECURING TO THE LIFT SIDE.
- (4) SPIN THE LIFT WHEEL ONTO THE WINCH DRIVESHAFT. MAKING SURE THE LIFT WHEEL REMAINS SNUG AGAINST THE CLUTCH PADS, ATTACH THE WHEEL KIT TO THE WINCH DRIVESHAFT. THE WHEEL KIT IS USED TO PREVENT YOUR LIFT WHEEL FROM SPINNING OFF THE WINCH DRIVESHAFT. THE WHEEL KIT CONSISTS OF A SPACER, WASHER, AND LOCK BOLT. THE WHEEL KIT CAN BE FOUND IN THE WINCH BOX.

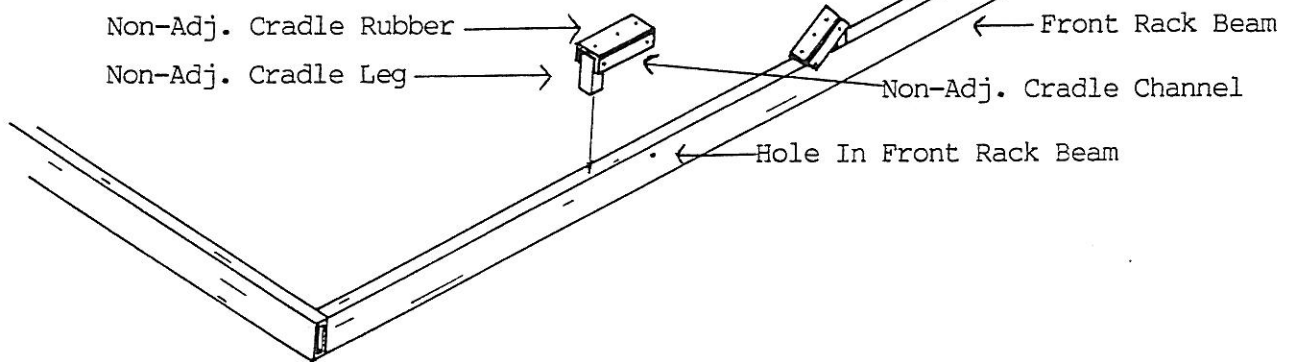


### NON-ADJUSTABLE CRADLES

1. Bolt the cradle leg and rubber onto the cradle channel as shown in the picture. NOTE - Bolt the cradle leg to the cradle channel using the small hole in the cradle channel.
2. Straddle the cradle channel over the top of the front rack beam, line up the large hole in the cradle channel with the hole in the front rack beam and bolt in place.
3. The cradle leg sits on top of the front rack beam.

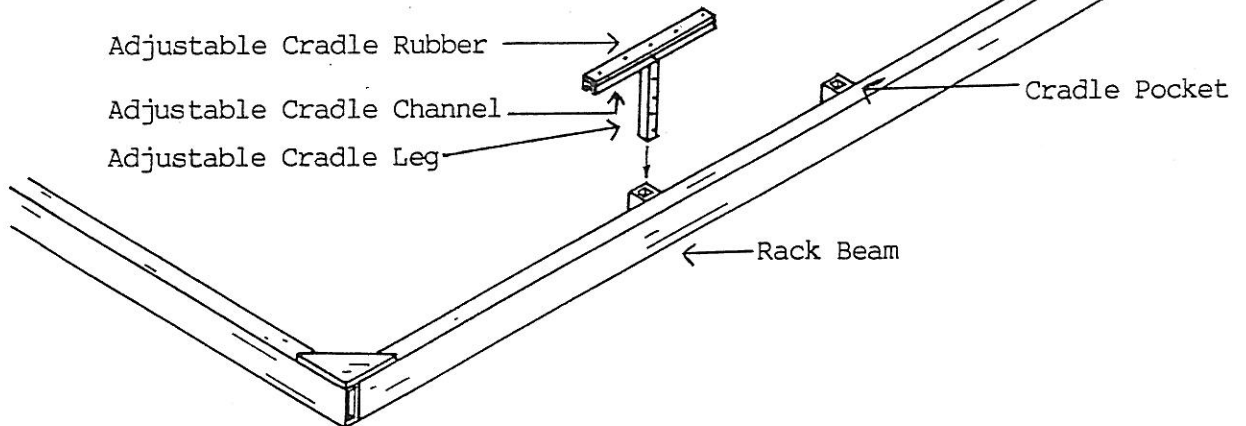
\*\* NOTE \*\*

The cradle pockets are not used with non-adj. cradles.



### ADJUSTABLE CRADLES

1. Bolt the cradle leg and rubber onto the cradle channel as shown in the picture.
2. Lower the cradle leg into the cradle pocket and bolt into place at the desired height.
3. Adjust the cradle channel to the desired angle and tighten securely into place.



\*\* NOTE \*\*

The cradle channel is adjustable so the adjustable cradle can run either perpendicular or parallel with the boat.

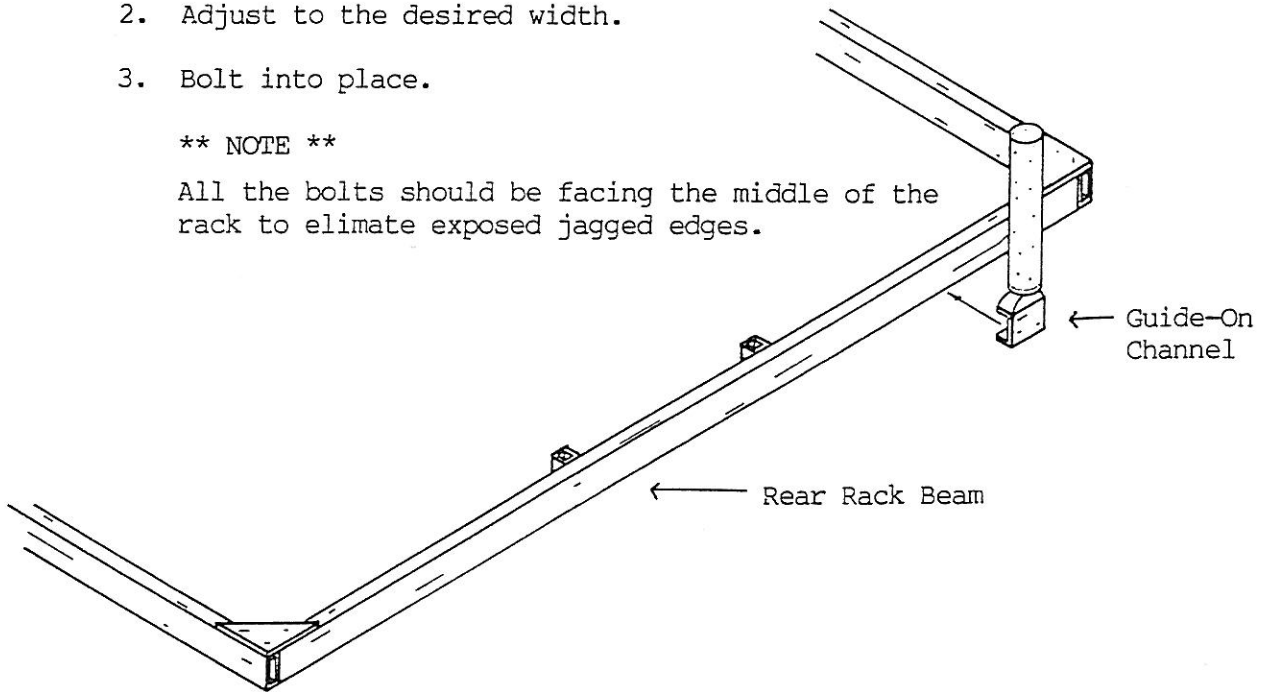


### GUIDE-ONS

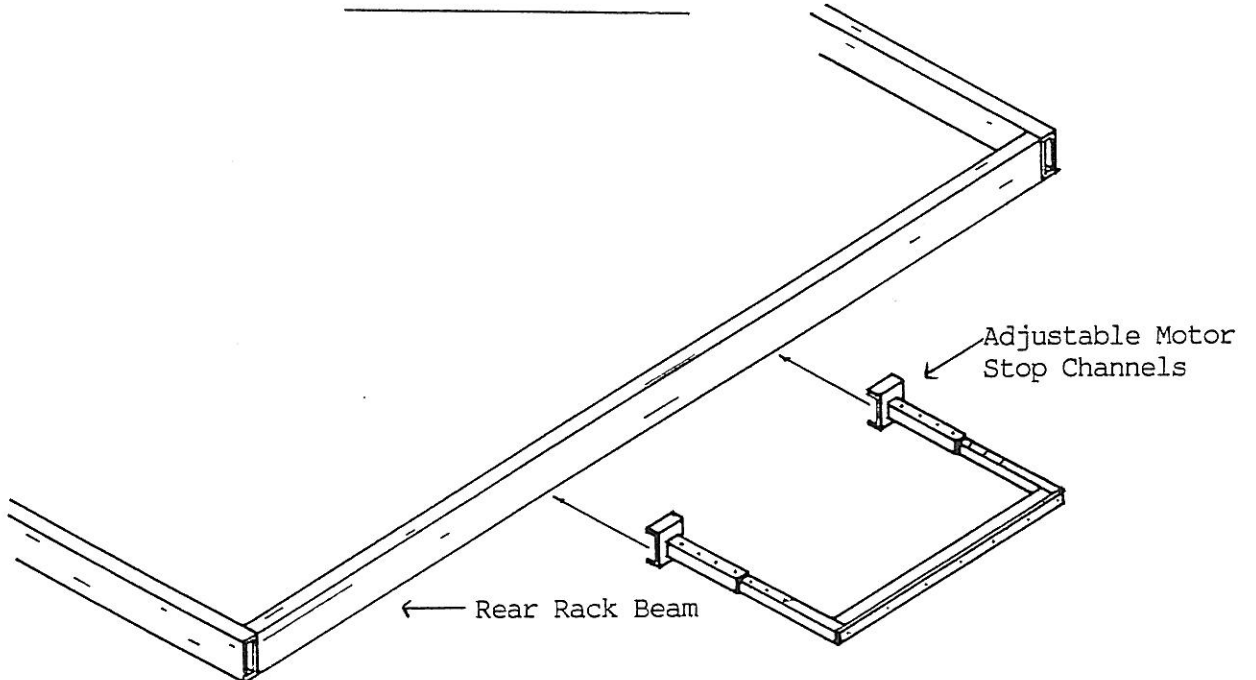
1. Place the guide-on channel over the front and/or rear rack beam from the outside.
2. Adjust to the desired width.
3. Bolt into place.

**\*\* NOTE \*\***

All the bolts should be facing the middle of the rack to eliminate exposed jagged edges.



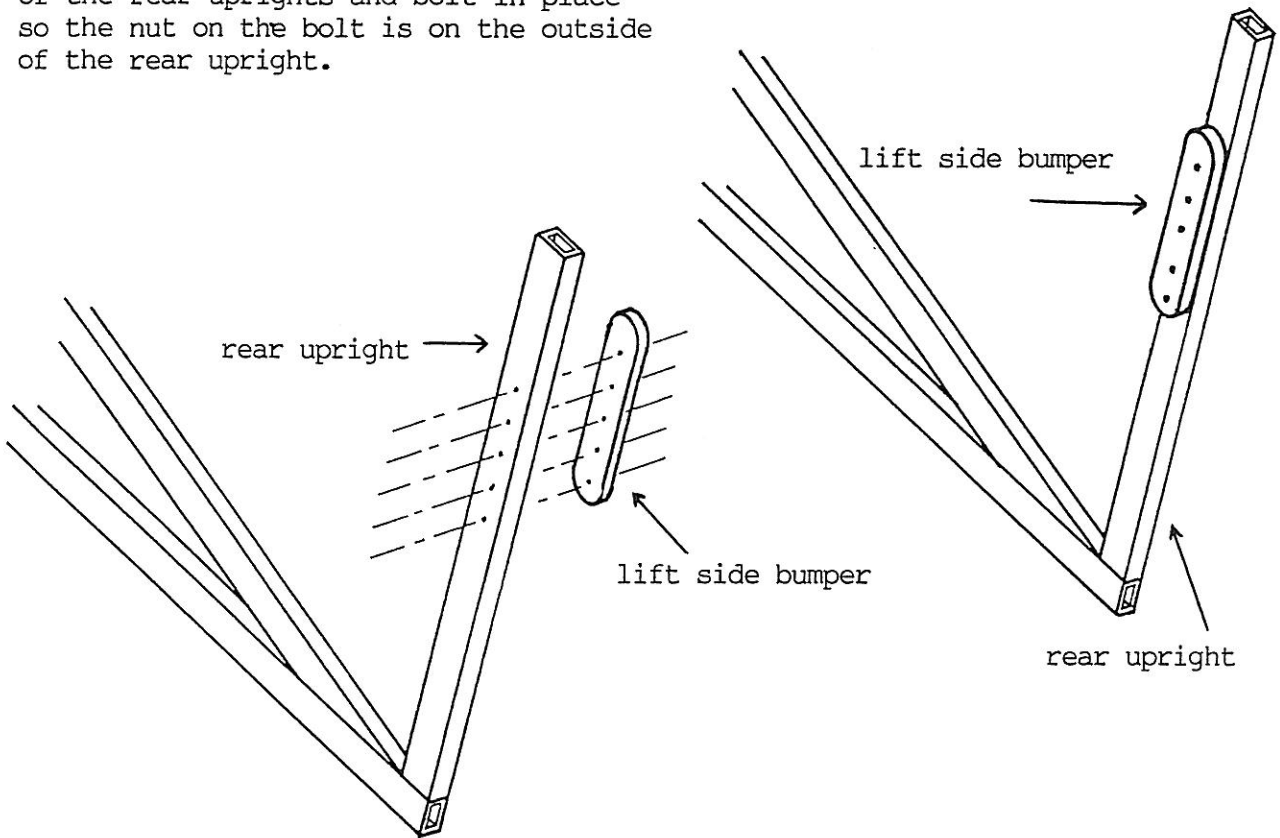
### ADJUSTABLE MOTOR STOP



1. Place the adjustable motor stop channels over the rear rack beam, center, and bolt into place.

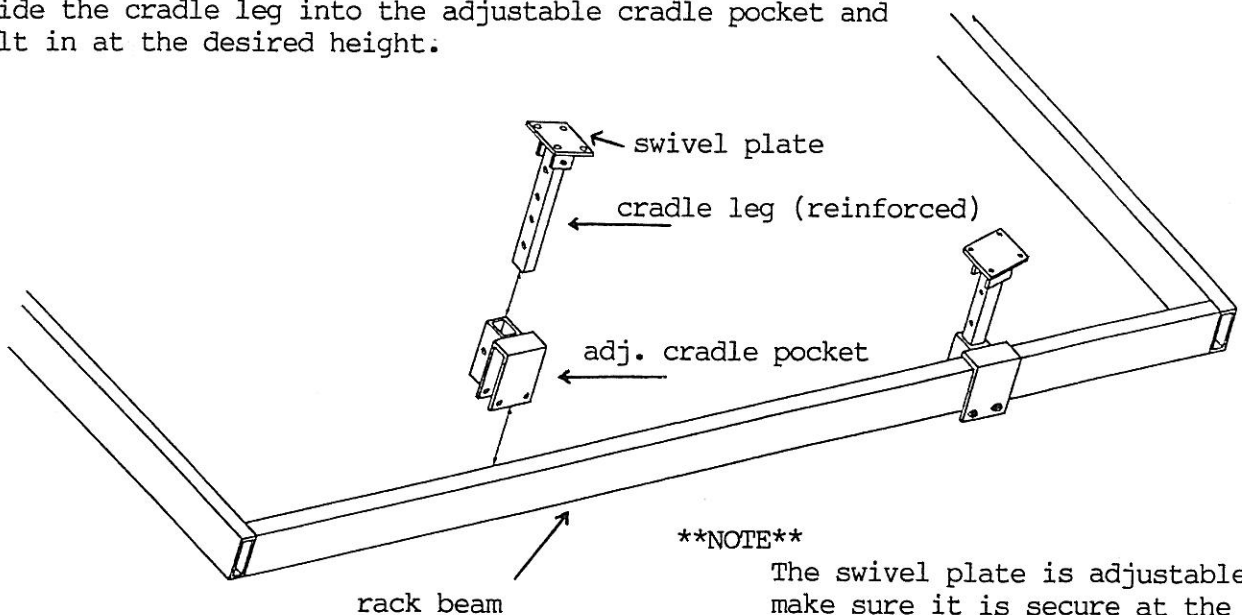
### LIFT SIDE BUMPER

- (1) Place each lift side bumper on the insides of the rear uprights and bolt in place so the nut on the bolt is on the outside of the rear upright.



### 18" BUNK BRACKET

- (1) Slide the adjustable cradle pocket over the front and/or rear rack beam and bolt in place.
- (2) Slide the cradle leg into the adjustable cradle pocket and bolt in at the desired height:



**\*\*NOTE\*\***

The swivel plate is adjustable so make sure it is secure at the desired angle.

"NEW" SHOREMASTER WINCH PARTS

effective date 1-20-92

<u>LETTER</u>	<u>PART DESCRIPTION</u>
A	SPROCKET SPOOL
B	SPROCKET SPOOL SPACER
C	CHAIN 40-26
D	CHAIN 40-18
E	3/4" CAST FLANGE
F	3/4" BALL BEARING & LOCKING COLLAR
H	SPROCKET 40B30
I	OILITE BUSHING
J	WINCH FRAME
K	SPROCKET 40B12
L	COUNTER SHAFT
M	DRIVESHAFT MOUNTING PLATE
N	DRIVESHAFT OILITE BUSHINGS
O	SPOOL SHAFT
P	MAIN DRIVESHAFT
Q	RATCHET PAWL SAFETY BAR
R	RATCHET PAWL
S	BRAKE PADS
T	RATCHET WHEEL
U	WINCH COVER
V	ROLL PINS
W	SET SCREWS

