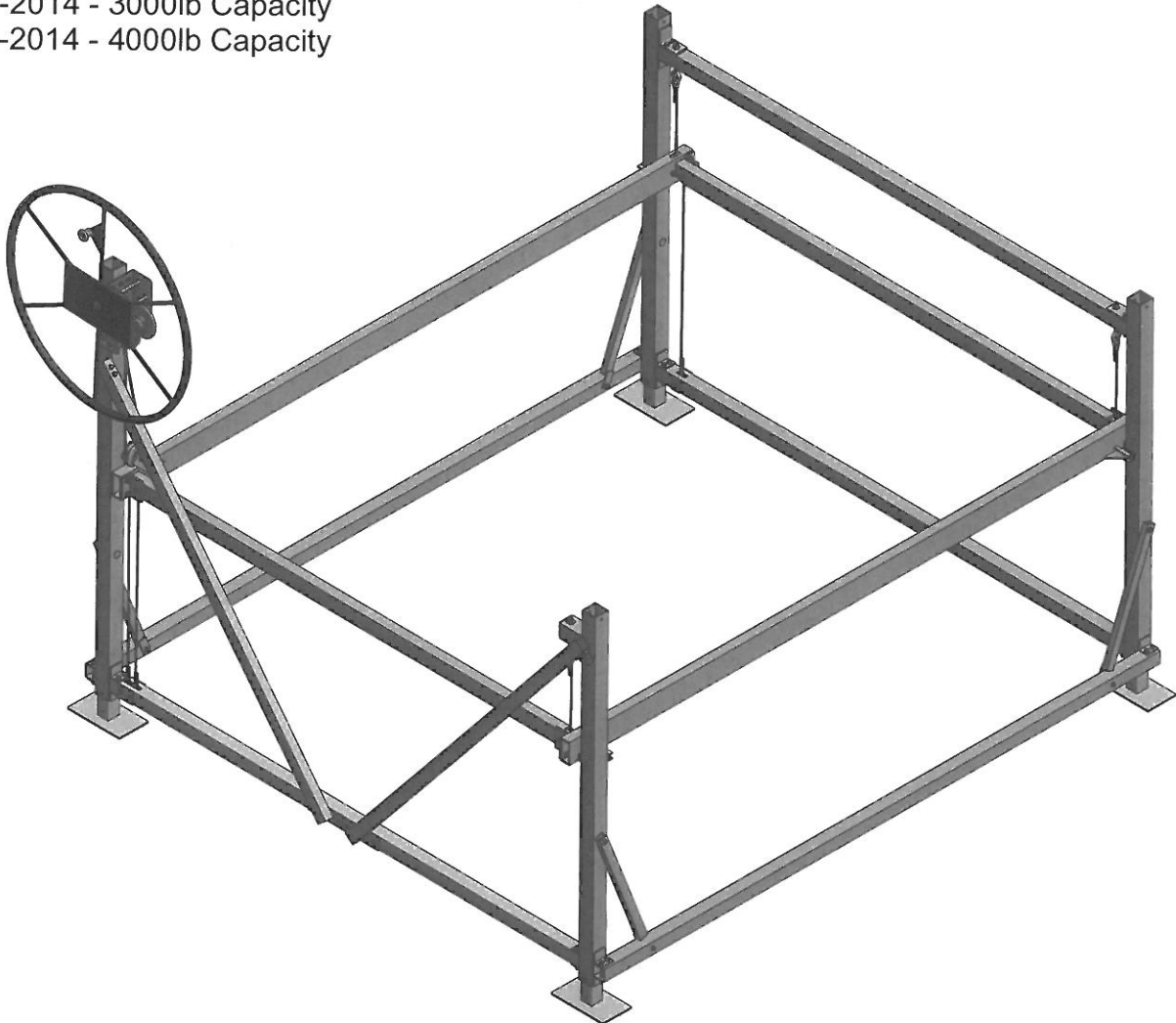


Shoreline Industries Shoreline Vertical Lift



www.Shoreline-Ind.com
Complete Lift Assembly Instructions
Model 309-2014 - 3000lb Capacity
Model 410-2014 - 4000lb Capacity



CAUTION - PUT SAFETY FIRST!

1. Before attempting to install or operate this hoist, study and fully understand the proper operating procedures and safety precautions outlined in this owner's manual.
2. Never exceed the recommended weight capacity of your lift. The lifted weight will include hull, engine, fuel, battery, and added accessories or gear. Weigh your fully loaded boat at a certified scale to be absolutely sure of the total weight.
3. Do not allow anyone on, in, or under the lift while operating.
4. NOT COMPLYING WITH THE PROCEDURES AND PRECAUTIONS OUTLINED IN THIS MANUAL, WILL INVALIDATE THE WARRANTY AND MAY RESULT IN PERSONAL INJURY OR DEATH.
5. If you have any questions about assembly, installation, operation or suitability of this product; contact an authorized dealer or Shoreline Industries.
www.shoreline-ind.com

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Cable Placement and Adjustment.....	10 , 12
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INSTALLATION TOOLS NEEDED

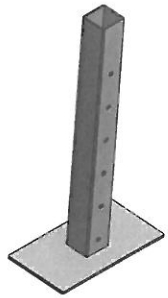
Your safety is the most important issue related to this product.

- ⊕ Fully read and understand each step before proceeding with that step.
- ⊕ Wear protective gloves, clothing and eyewear when assembling and installing lift.
- ⊕ Do not assemble, install or use this product if items are missing or damaged.

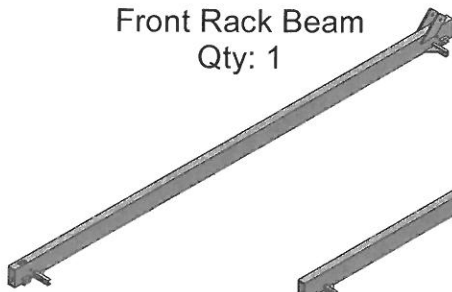
For ease of assembly, find a flat area with plenty of room to assemble lift. The following tools will be needed for assembling lift:

- 1) Two 9/16" wrenches
- 2) Two 3/4" wrenches
- 3) Two 5/16" wrenches
- 4) 3/8" Wrench
- 5) Vise Grip
- 6) Tape Measure
- 7) Hammer
- 8) Square
- 9) Screw Gun with 3/8 Socket

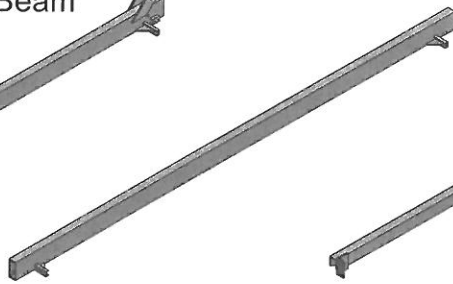
PARTS AND COMPONENTS



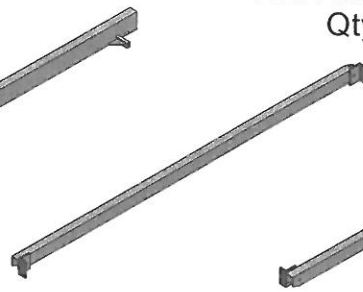
Welded Foot Pad
Qty: 4



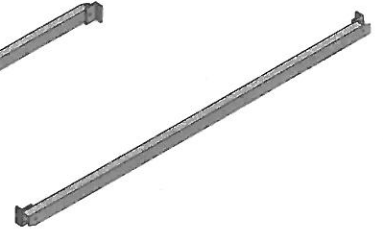
Front Rack Beam
Qty: 1



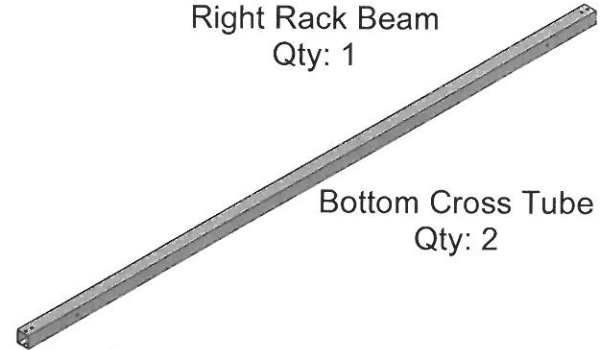
Rear Rack Beam
Qty: 1



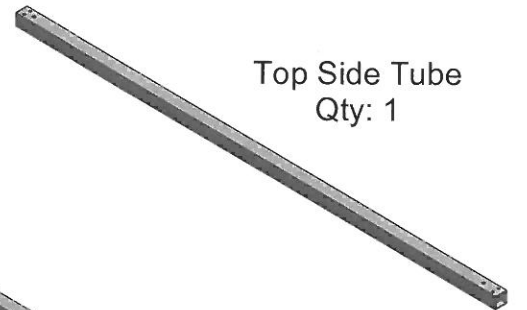
Left Rack Beam
Qty: 1



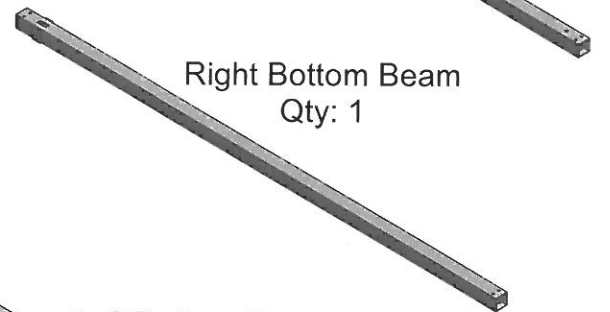
Right Rack Beam
Qty: 1



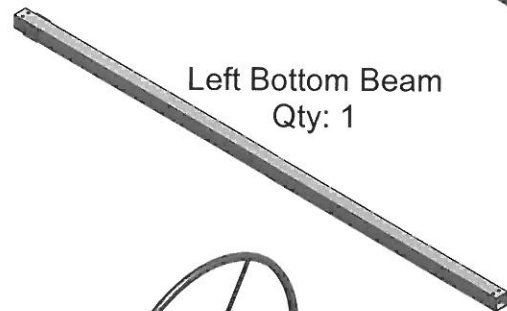
Bottom Cross Tube
Qty: 2



Top Side Tube
Qty: 1



Right Bottom Beam
Qty: 1



Left Bottom Beam
Qty: 1

Front Right Leg
Qty: 1



Rear Right Leg
Qty: 1



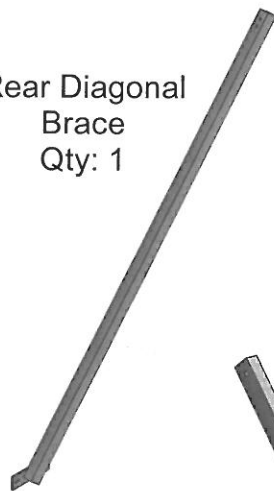
Rear Left Leg
Qty: 1



Winch Leg
Qty: 1



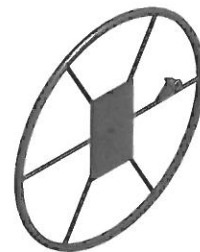
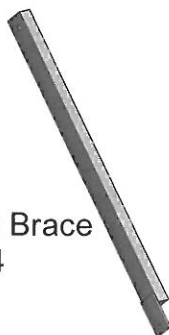
Rear Diagonal
Brace
Qty: 1



Winch Diagonal
Brace
Qty: 1



Vertical Leg Brace
Qty: 4

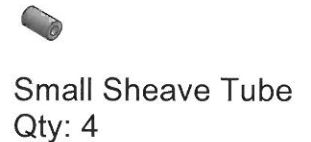
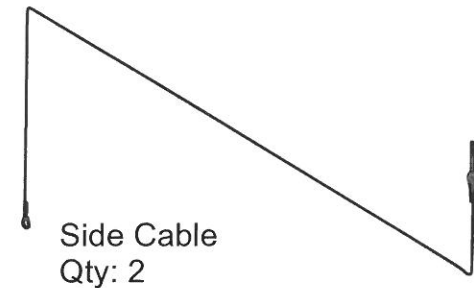
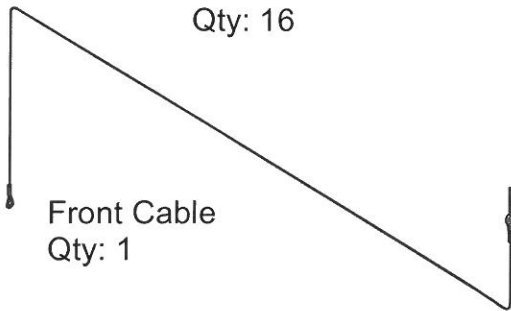
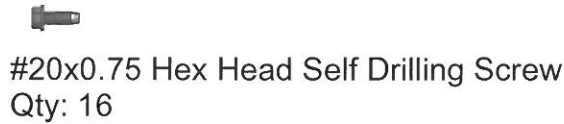
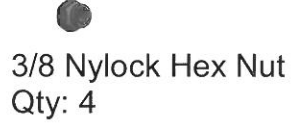
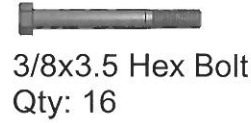


Winch Wheel
Qty: 1

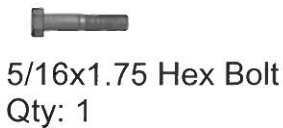
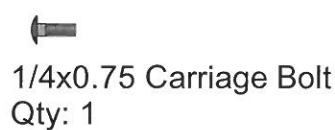


Winch
Qty: 1

Lift Hardware



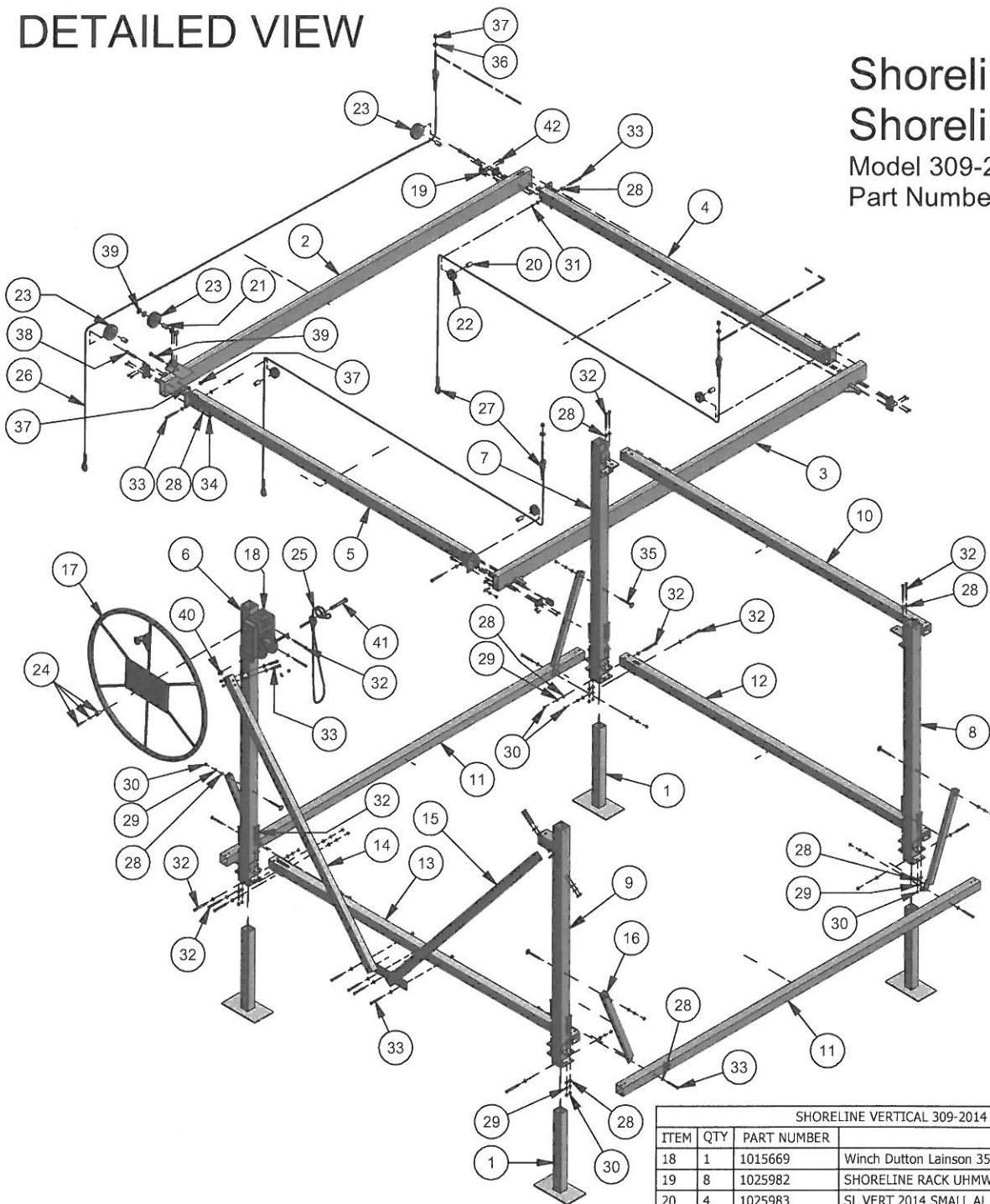
Wheel and Winch Hardware



DETAILED VIEW



Shoreline Industries
Shoreline Vertical Lift
 Model 309-2014
 Part Number: 1026033



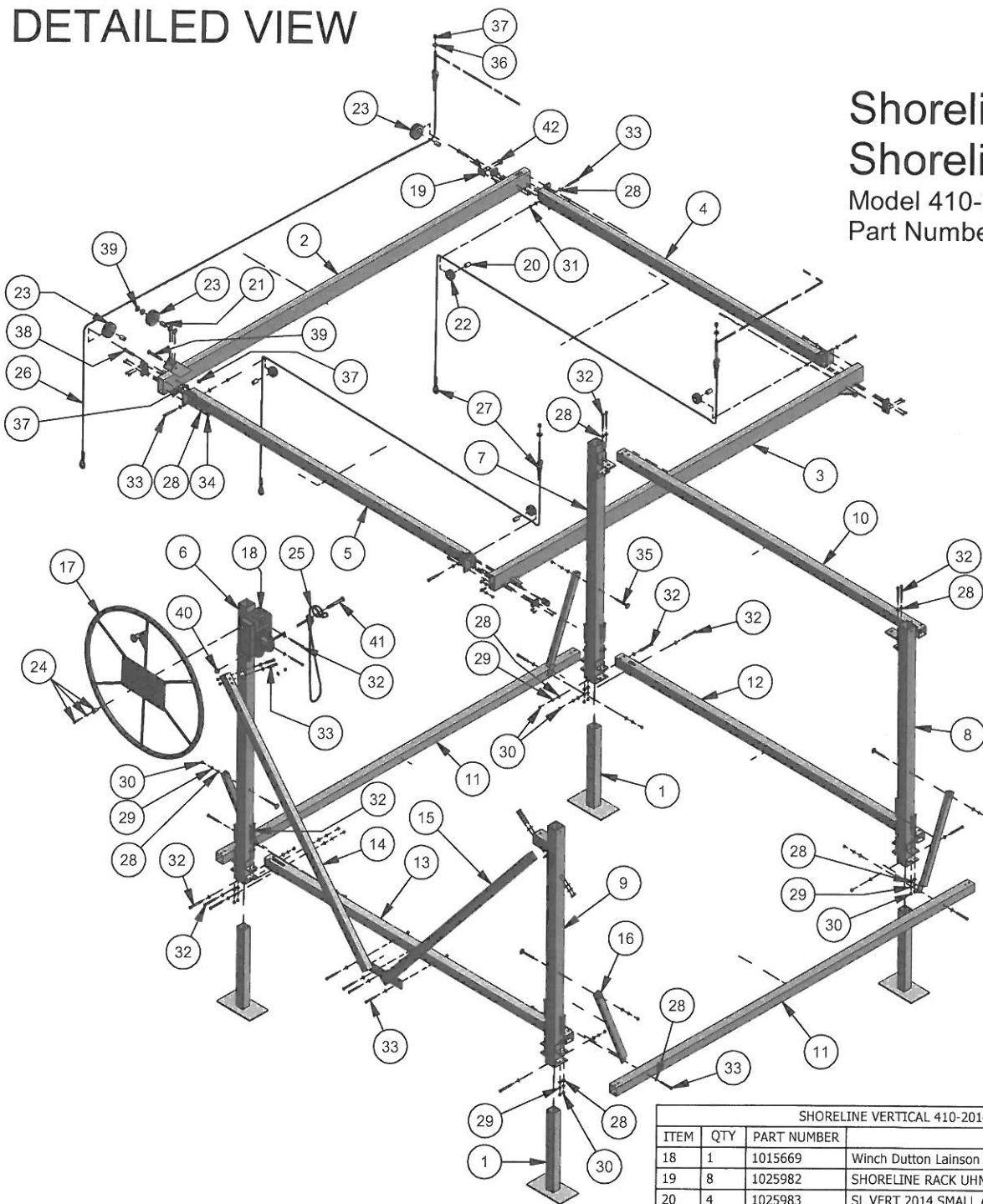
SHORELINE VERTICAL 309-2014 BUNDLE			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	1024610	Wdmt 24.0" LEG with foot pad
2	1	1026042	WDMT SHORELINE VERTICAL FRONT RACK BEAM 309-2014
3	1	1026044	WDMT SHORELINE VERTICAL REAR RACK BEAM 309-2014
4	1	1025986	WDMT SHORELINE VERTICAL RACK SIDE - RIGHT 2014
5	1	1025987	WDMT SHORELINE VERTICAL RACK SIDE - LEFT 2014
6	1	1026027	WDMT SHORELINE VERTICAL WINCH LEG 2014
7	1	1026048	WDMT SHORELINE VERTICAL 3K FRONT RIGHT LEG 2014
8	1	1026050	WDMT SHORELINE VERTICAL 3K REAR RIGHT LEG 2014
9	1	1026049	WDMT SHORELINE VERTICAL 3K REAR LEFT LEG 2014
10	1	1026009	PRT SHORELINE VERTICAL TOP SIDE TUBE 2014 - 107.25
11	2	1026045	PRT SHORELINE VERTICAL BOT CROSS TUBE 309-2014 - 113.50
12	1	1026005	WDMT SHORELINE VERTICAL RIGHT BOT BEAM 2014
13	1	1026000	WDMT SHORELINE VERTICAL WINCH SIDE BOT BEAM 2014
14	1	1026010	WDMT SHORELINE VERTICAL WINCH DIAG BRACE 2014
15	1	1026011	WDMT SHORELINE VERTICAL REAR DIAG BRACE 2014
16	4	1026015	WDMT SHORELINE VERTICAL LEG BRACE 2014
17	1	1017399	Wheel Painted Large Green - ShoreLine Complete

SHORELINE VERTICAL 309-2014 HARDWARE BOX			
ITEM	QTY	PART NUMBER	DESCRIPTION
18	1	1015669	Winch Dutton Lainson 3503
19	8	1025982	SHORELINE RACK UHMW RUB BLOCKS - 2014
20	4	1025983	SL VERT 2014 SMALL AL SHEAVE TUBE-.4375 ID-.875 OD
21	3	1025984	SL VERT 2014 LARGE AL SHEAVE TUBE-.53 ID-.875 OD
22	4	1024621	SHORELINE VERTICAL small sheave GSM NYALTRON
23	3	1024620	SL VERTICAL Large sheave GSM NYALTRON
24	1	1013137	Wheel Spacer Kit - DL
25	1	1024642	WINCH CABLE SL VERTICAL 12'-6" THIM-BURN
26	1	1026035	CABLE SHORELINE 309-2014 FRONT - 179.00" END TO END
27	2	1026034	CABLE SL 3K/4K-2014 VERTICAL SIDES - 166.00" END TO END
28	110	1024623	WASHER FLAT 3/8 - ZINC
29	53	1024624	WASHER LOCK SPRING 3/8 - ZINC
30	53	1024625	NUT HEX 3/8-16 - ZINC
31	4	1011715	Nut Nyloc 3/8-16 Zinc
32	29	1024626	BOLT HEX 3/8-16 X 4.0 GRADE 5 - ZINC
33	16	1025978	Bolt Hex 3/8-16 x 3.5 Zinc
34	8	1024627	BOLT HEX 3/8-16 X 1.5 GRADE 5 - ZINC
35	4	1024628	BOLT ELEVATOR 3/8-16 X 4 - ZINC
36	8	1002285	Washer Flat 1/2 Zinc
37	6	1024639	NUT HEX, NYLOCK 1/2-13 - ZINC
38	2	1025979	Bolt Hex 1/2-13 x 3.0 Zinc
39	1	1002364	Bolt Hex 1/2-13 x 4.0 Zinc
40	1	1024634	NUT HEX, NYLOC 5/8-11 - ZINC
41	1	1024637	BOLT HEX 5/8-11 X 5 GRADE 5 - ZINC
42	16	1026074	Screw Flange Head Self-Drilling #14x 3/4

DETAILED VIEW



Shoreline Industries
Shoreline Vertical Lift
 Model 410-2014
 Part Number: 1025980



SHORELINE VERTICAL 410-2014 BUNDLE			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	1024610	Wdmt 24.0" LEG with foot pad
2	1	1025991	WDMT SHORELINE VERTICAL FRONT RACK BEAM 410-2014
3	1	1025990	WDMT SHORELINE VERTICAL REAR RACK BEAM 410-2014
4	1	1025986	WDMT SHORELINE VERTICAL RACK SIDE - RIGHT 2014
5	1	1025987	WDMT SHORELINE VERTICAL RACK SIDE - LEFT 2014
6	1	1026027	WDMT SHORELINE VERTICAL WINCH LEG 2014
7	1	1026028	WDMT SHORELINE VERTICAL 4K FRONT RIGHT LEG 2014
8	1	1026030	WDMT SHORELINE VERTICAL 4K REAR RIGHT LEG 2014
9	1	1026029	WDMT SHORELINE VERTICAL 4K REAR LEFT LEG 2014
10	1	1026009	PRT SHORELINE VERTICAL TOP SIDE TUBE 2014 - 107.25
11	2	1026008	PRT SHORELINE VERTICAL BOT CROSS TUBE 410-2014 - 125.50
12	1	1026005	WDMT SHORELINE VERTICAL RIGHT BOT BEAM 2014
13	1	1026000	WDMT SHORELINE VERTICAL WINCH SIDE BOT BEAM 2014
14	1	1026010	WDMT SHORELINE VERTICAL WINCH DIAG BRACE 2014
15	1	1026011	WDMT SHORELINE VERTICAL REAR DIAG BRACE 2014
16	4	1026015	WDMT SHORELINE VERTICAL LEG BRACE 2014
17	1	1017399	Wheel Painted Large Green - ShoreLine Complete

SHORELINE VERTICAL 410-2014 HARDWARE BOX			
ITEM	QTY	PART NUMBER	DESCRIPTION
18	1	1015669	Winch Dutton Lainson 3503
19	8	1025982	SHORELINE RACK UHMW RUB BLOCKS - 2014
20	4	1025983	SL VERT 2014 SMALL AL SHEAVE TUBE-.4375 ID-.875 OD
21	3	1025984	SL VERT 2014 LARGE AL SHEAVE TUBE-.53 ID-.875 OD
22	4	1024621	SHORELINE VERTICAL small sheave GSM NYALTRON
23	3	1024620	SL VERTICAL Large sheave GSM NYALTRON
24	1	1013137	Wheel Spacer Kit - DL
25	1	1024642	WINCH CABLE SL VERTICAL 12'-6" THIM-BURN
26	1	1026036	CABLE SHORELINE 410-2014 FRONT - 189.00" END TO END
27	2	1026034	CABLE SL 3K/4K-2014 VERTICAL SIDES - 166.00" END TO END
28	110	1024623	WASHER FLAT 3/8 - ZINC
29	53	1024624	WASHER LOCK SPRING 3/8 - ZINC
30	53	1024625	NUT HEX 3/8-16 - ZINC
31	4	1011715	Nut Nyloc 3/8-16 Zinc
32	29	1024626	BOLT HEX 3/8-16 X 4.0 GRADE 5 - ZINC
33	16	1025978	Bolt Hex 3/8-16 x 3.5 Zinc
34	8	1024627	BOLT HEX 3/8-16 X 1.5 GRADE 5 - ZINC
35	4	1024628	BOLT ELEVATOR 3/8-16 X 4 - ZINC
36	8	1002285	Washer Flat 1/2 Zinc
37	6	1024639	NUT HEX, NYLOCK 1/2-13 - ZINC
38	2	1025979	Bolt Hex 1/2-13 x 3.0 Zinc
39	1	1002364	Bolt Hex 1/2-13 x 4.0 Zinc
40	1	1024634	NUT HEX, NYLOC 5/8-11 - ZINC
41	1	1024637	BOLT HEX 5/8-11 X 5 GRADE 5 - ZINC
42	16	1026074	Screw Flange Head Self-Drilling #14x 3/4

ASSEMBLY INSTRUCTIONS

Your safety is the most important issue related to this product.

- ⊕ Fully read and understand each step before proceeding with that step.
- ⊕ Wear protective gloves, clothing and eyewear when assembling and installing lift.
- ⊕ Do not assemble, install or use this product if items are missing or damaged.

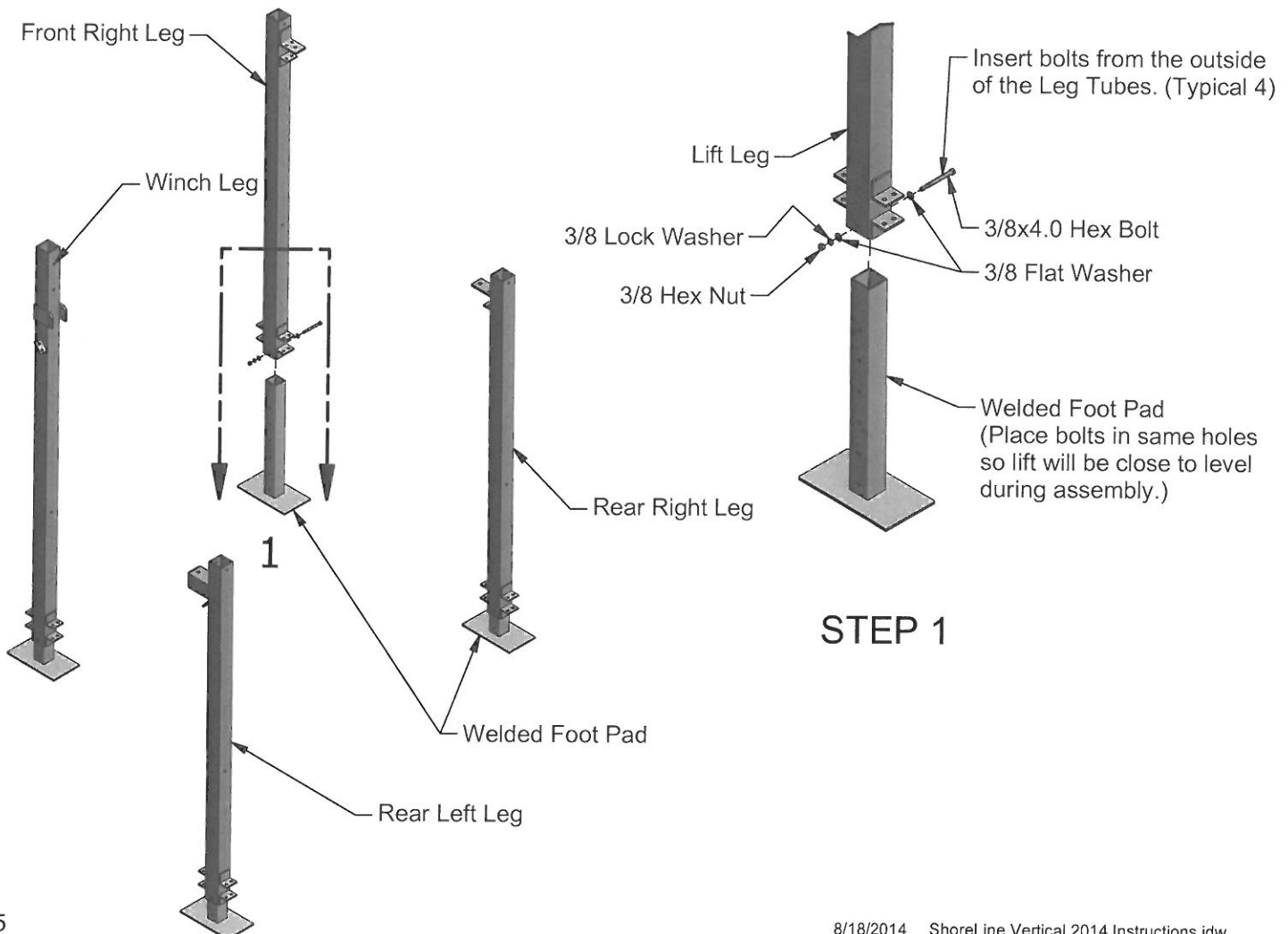
For ease of assembly, find a flat area with plenty of room to assemble lift. The following tools will be needed for assembling lift:

- 1) Two 9/16" wrenches
- 2) Two 3/4" wrenches
- 3) Two 5/16" wrenches
- 4) 3/8" Wrench
- 5) Vise Grip
- 6) Tape Measure
- 7) Hammer
- 8) Square
- 9) Screw Gun with 3/8 socket

Only Tighten Bolted Connections Finger Tight Until Lift is Completely Assembled, UNLESS Instructed Otherwise.

STEP 1

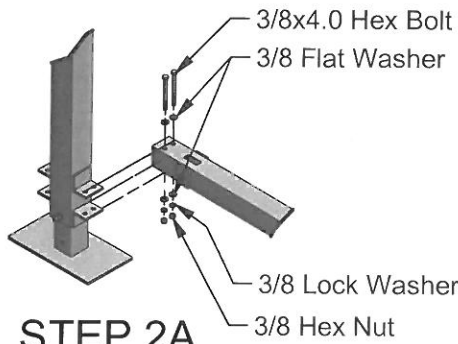
Insert Welded Foot Pad into each of the Leg Tubes and tighten with one 3/8x4.0 Hex Bolt, two 3/8 Flat Washers, one 3/8 Lock Washer and one 3/8 Hex Nut as shown in STEP 1 detail.



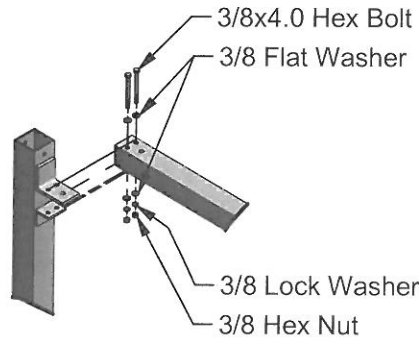
ASSEMBLY INSTRUCTIONS

STEP 2

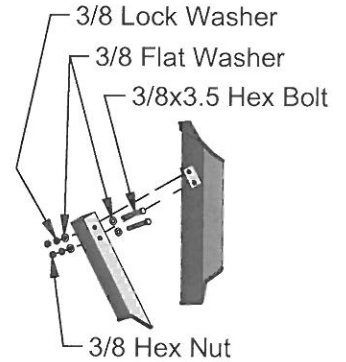
Assemble the sides of the lift laying flat on the ground. Insert both ends of the Right Bottom Beam and Top Side Tube into the slots of the Front Right Leg and the Rear Right Leg. Finger tighten with one 3/8x4.0 Hex Bolt, two 3/8 Flat Washers, one 3/8 Lock Washer and one 3/8 Hex Nut as shown in STEP 2A and STEP 2B. Insert both ends of the Winch Bottom Beam into the slots of the Winch Leg and the Rear Left Leg. Finger tighten with one 3/8x4.0 Hex Bolt, two 3/8 Flat Washers, one 3/8 Lock Washer and 3/8 Hex Nut as shown in STEP 2A.



STEP 2A
(Right Bottom Beam and Winch Bottom Beam)

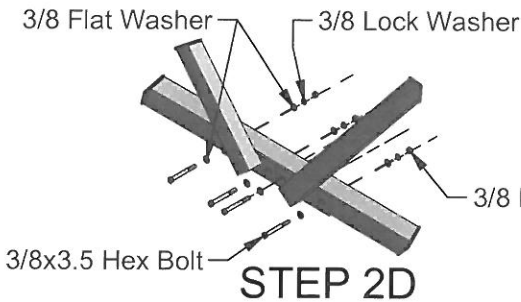


STEP 2B
(Side Top Beam)



STEP 2C
(Winch Side Diagonal Braces)

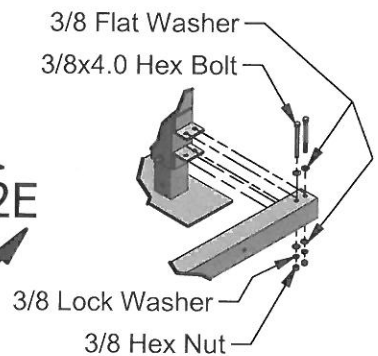
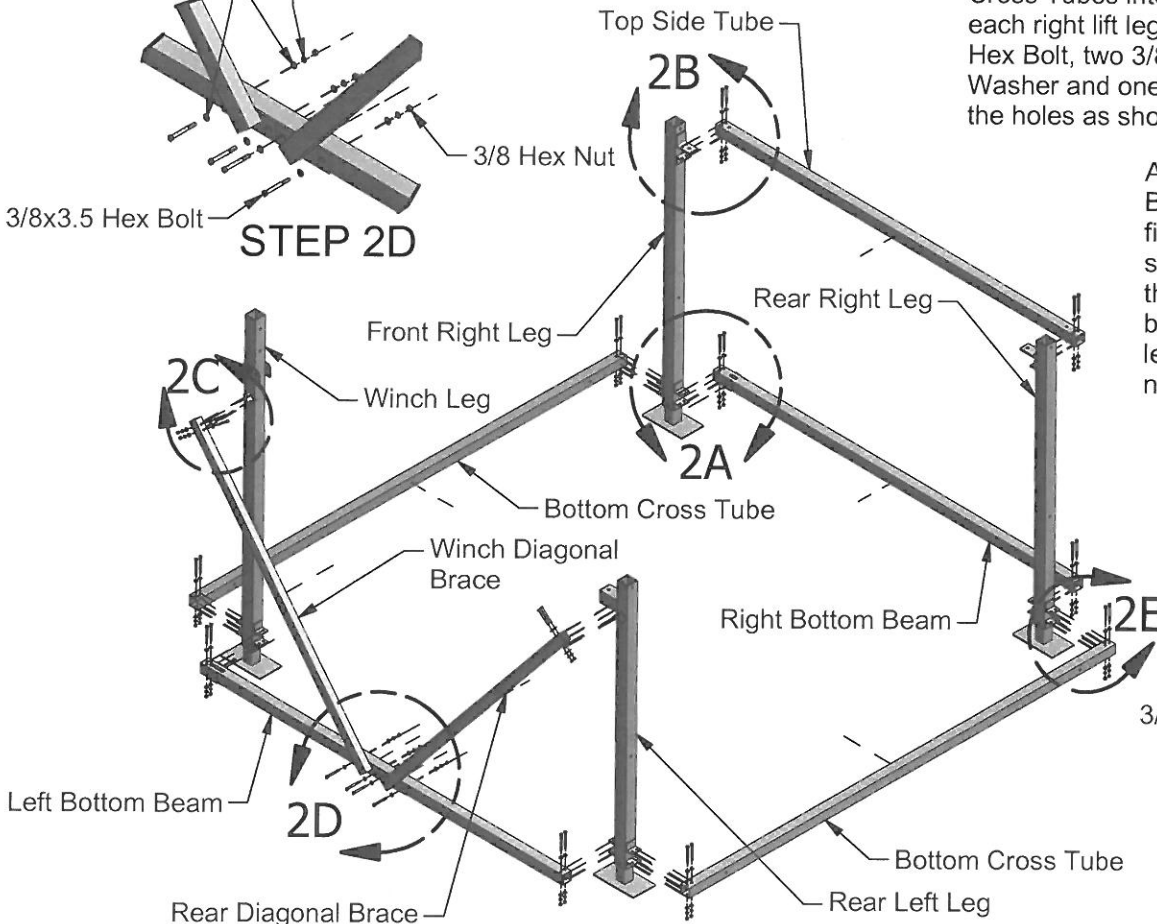
Align the Winch Diagonal Brace and the Rear Diagonal Brace into position and finger tighten with one 3/8x3.5 Hex Bolt, two 3/8 Flat Washers, one 3/8 Lock Washer and one 3/8 Hex Nut for each hole on the top ends of the brace tubes, as shown in STEP 2C. Insert and finger tighten one 3/8x3.5 Hex Bolt, two 3/8 Flat Washers, one 3/8 Lock Washer and one 3/8 Hex Nut through each hole that connect the bottom plates of the Diagonal Braces to the holes in the side of the Left Bottom Beam as shown in STEP 2D.



STEP 2D

Stand one of the lift sides up and insert Bottom Cross Tubes into the tabs on the bottom of each right lift leg. Finger tighten one 3/8x4.0 Hex Bolt, two 3/8 Flat Washers, one 3/8 Lock Washer and one 3/8 Hex Nut through each of the holes as shown in STEP 2E.

After the right side has the Bottom Cross tubes attached finger tight, stand the winch side of the frame up and place the tubes into the slots on the bottom the the winch side legs. Finger tighten bolts as noted in the instruction above.

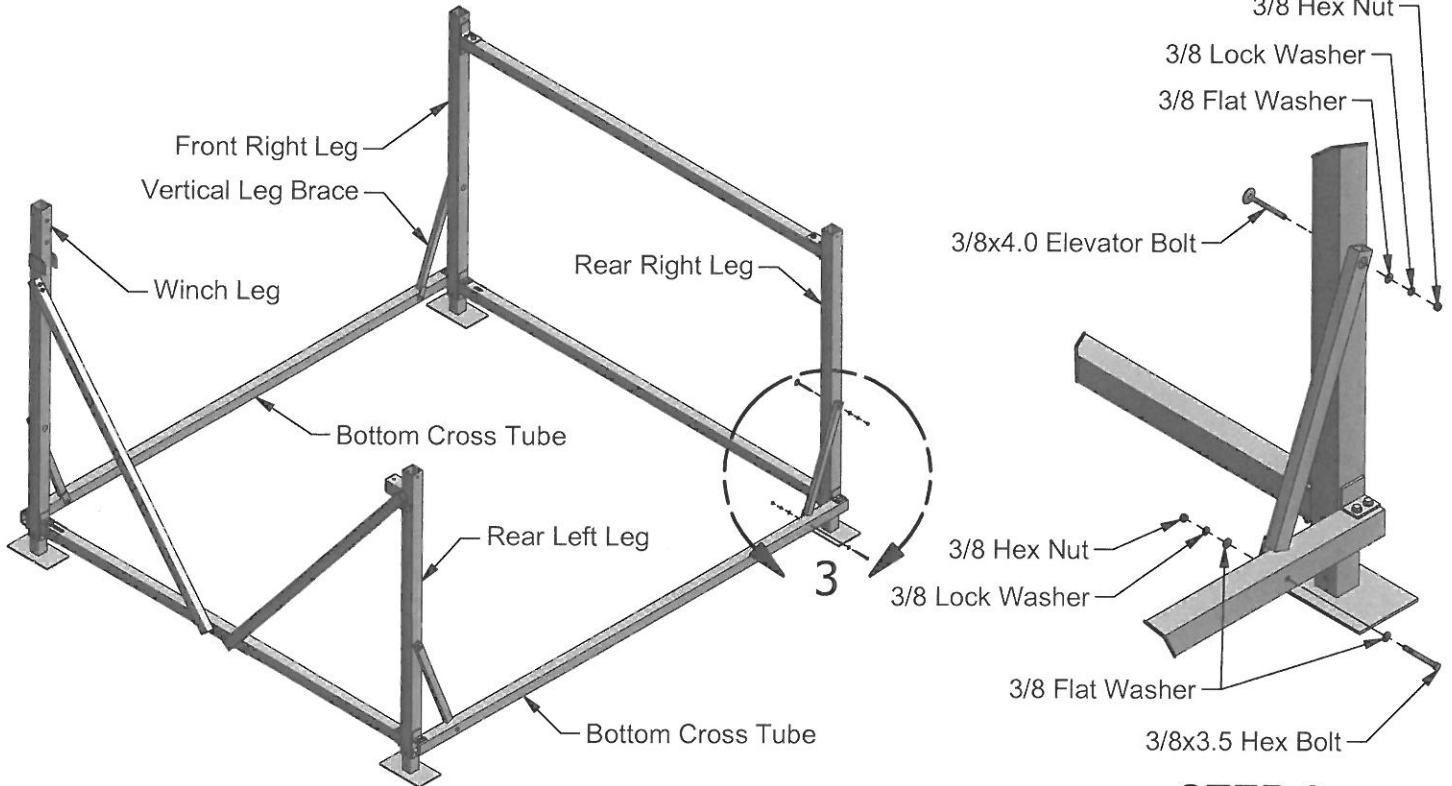


STEP 2E

ASSEMBLY INSTRUCTIONS

STEP 3

Connect the Vertical Leg Braces from the Bottom Cross Tubes to each of the Lift Legs. Insert one 3/8x3.5 Elevator Bolt through Lift Leg and finger tighten with one 3/8 Flat Washer, one 3/8 Lock Washer and one 3/8 Hex Nut (turn the head of the elevator bolt to help start the threading of the nut). Finger tighten one 3/8x3.5 Hex Bolt, two 3/8 Flat Washers, one 3/8 Lock Washer and one 3/8 Hex Nut to fasten the bottom tab of the Vertical Leg Brace to the Bottom Cross Tube. Repeat the above instructions for the remaining three Lift Legs.

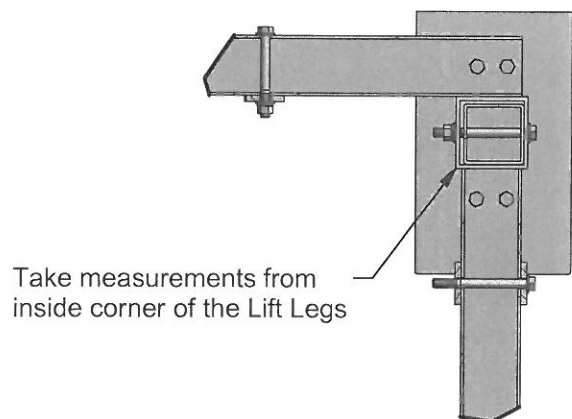
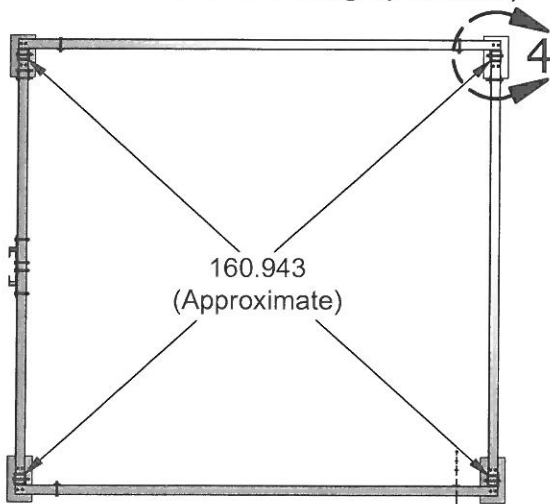


STEP 4

Square the lift. Use a tape measure and measure diagonally across the bottom of the inside corners of the lift legs. Both diagonal measurements should be the same and the lift will be square.

Tighten all bolted connections done in the previous steps except for the Foot Pads, Foot Pad adjustment will be done in the installation process. When tightening the bolts, start on the bottom connections and work your way around the lift before doing the top bolted connections.

⊕ Elevator Bolts need to be tightened until the bolt is flush with the outside corners of the Lift Legs.
(Rub Pads need to rub over during operation.)



STEP 4

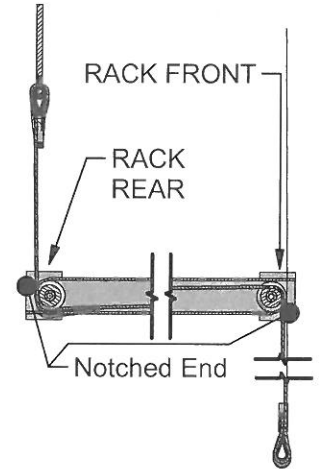
ASSEMBLY INSTRUCTIONS

STEP 5A

-Route the Side Cables through both Rack Side Beams. Note the orientation of each side of the beams and whether the cable will run either over or under the pulleys as shown in the CABLE ROUTING details. After Side Cable are routed properly, insert Small Sheave and Small Sheave Tube into the ends of the tube. (The cable will need to be in the sheave's channel for proper operation.) Tighten pulley in place with one 3/8x3.5 Hex Bolt, two 3/8 Flat Washers and one 3/8 Nylock Hex Nut on each end.

-The Front Cable will enter and exit the beam through the rectangular slots found on the top and bottom of the Front Rack Beam. Refer to CABLE ROUTING details for proper cable routing. In order to insert the Large Sheave and Large Sheave Tube the Front Cable needs to be pulled out of the tube to create a loop for the sheave and sheave tube to be inserted into then placed in the Front Rack Beam. Tighten into place with one 1/2x3.0 Hex Bolt and one 1/2 Nylock Hex Nut on each end.

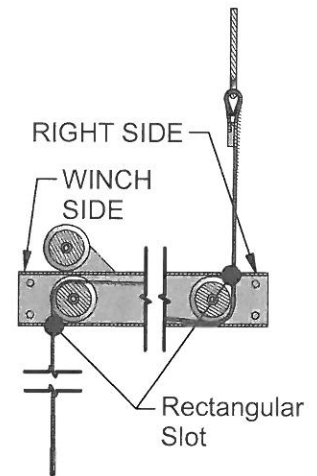
-Install the Large Sheave, Tube and four 1/2 Flat Washers between the tabs on the top of the Front Rack Beam as shown in detail STEP 5A. Tighten with one 1/2x4.0 Hex Bolt and one 1/2 Nylock Hex Nut. *Tighten all of the Sheaves' Nylock Hex Nuts at this time.*



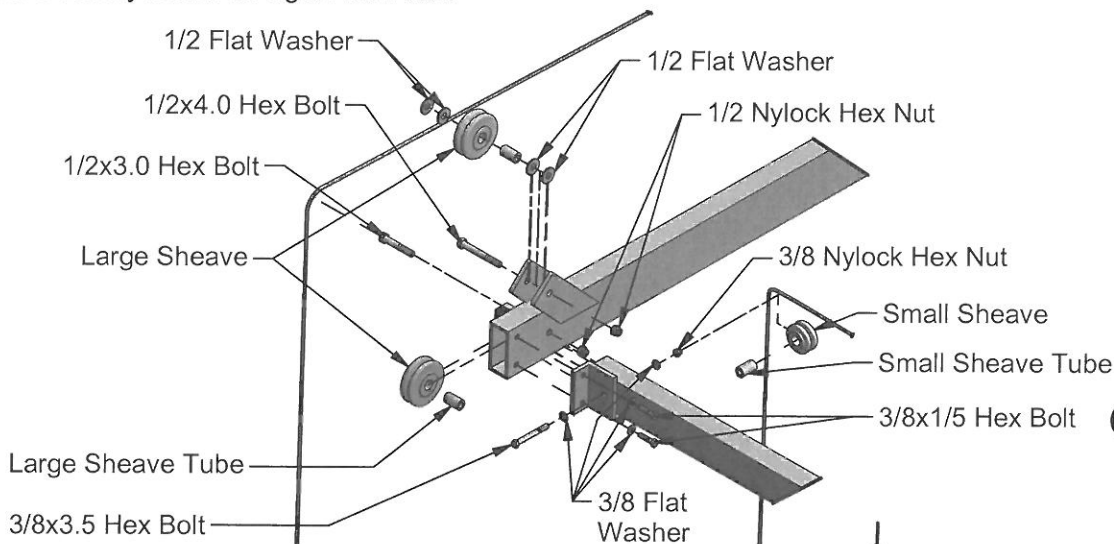
CABLE ROUTING
SIDE RACK BEAMS

STEP 5B

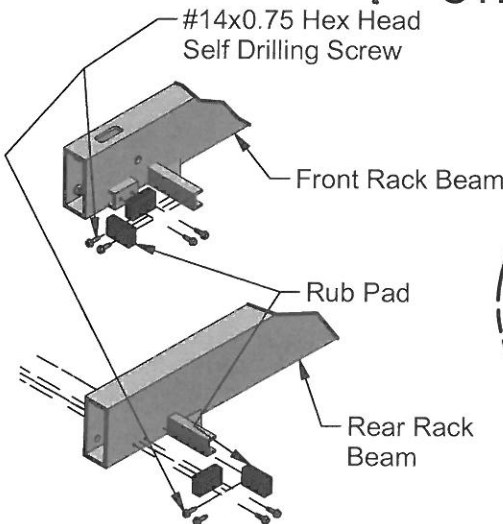
Install the Rub Pads to the Front and Rear Rack Beams. There are two Rub Pads installed on each end of the beams. Refer to STEP 5B detail below. Hold Rub Pad into place over the pilot holes found on the outside ends of the beams. Use a screw gun and screw two #14x0.75 Hex Head Self Drilling Screws through the holes in the Rub Pad and into the pilot holes of the rack beams. Securely fasten all eight Rub Pads.



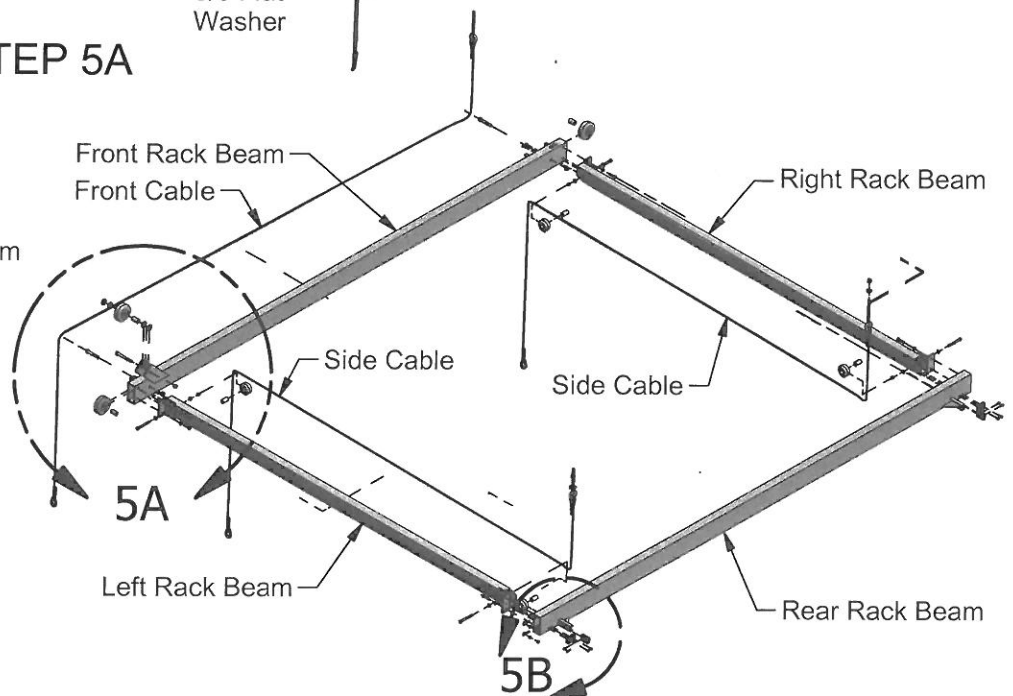
CABLE ROUTING
FRONT RACK BEAM



STEP 5A



STEP 5B

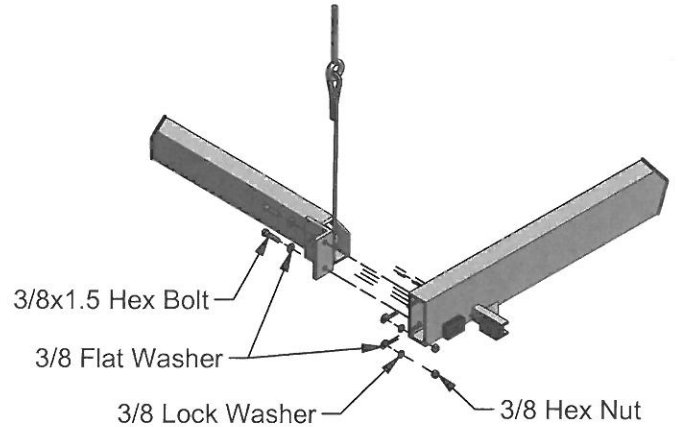
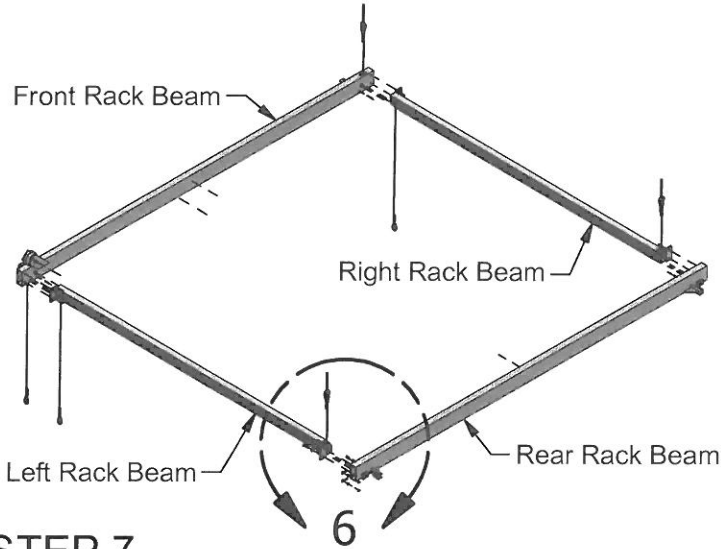


ASSEMBLY INSTRUCTIONS

STEP 6

Assemble Rack Frame inside of Lift frame. Finger tighten one 3/8x1.5 Hex Bolt, two 3/8 Flat Washers, one 3/8 Lock Washer and one 3/8 Hex Nut through each of the holes in the frames as shown in STEP 6 detail. Repeat for the rest of the three corner connections.

Tighten all four corners until the Lock Washers are flat. Hold and straighten the Side Tubes as the bolted connections are tightened.



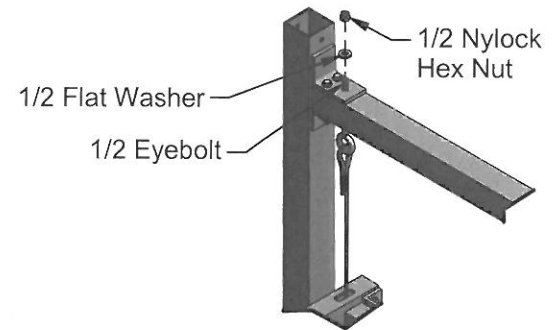
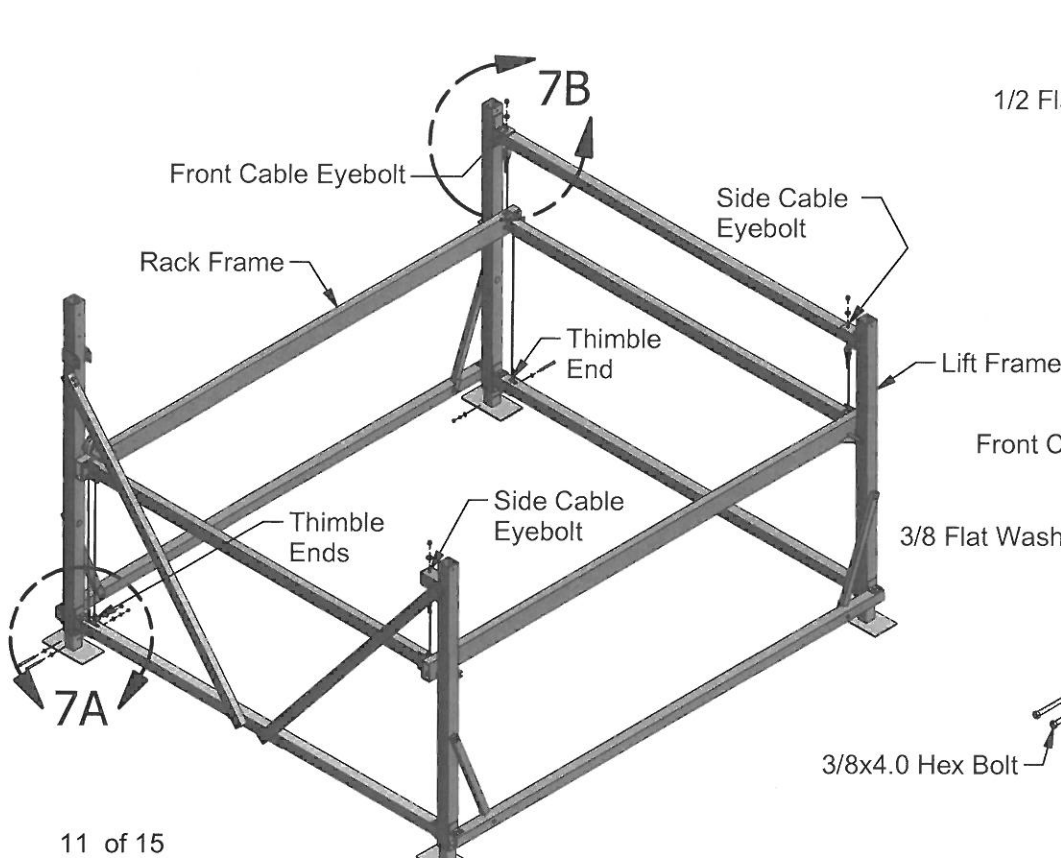
STEP 6

STEP 7

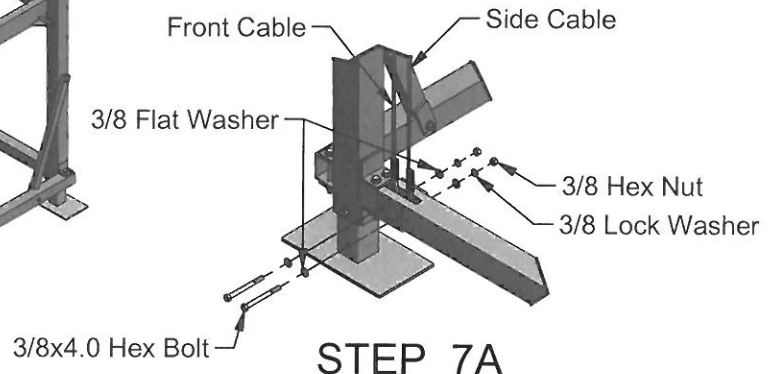
Attach the Front Cable and Side Cables to the Lift Frame. Use a block of wood to raise the Rack Frame up from the Lift Frame to allow for clearance to fasten the thimble end of the cable to the Right Bottom Beam and Left Bottom Beam as shown in STEP 7A detail. Fasten with one 3/8x4.0 Hex Bolt, two 3/8 Flat Washers, one 3/8 Lock Washer and one 3/8 Hex Nut at each location. Remove block of wood, if used.

Insert the proper eyebolt into the holes noted in the diagram below. Fasten with one 1/2 Flat Washer and one 1/2 Nylock Nut on top of each eyebolt as shown in STEP 7B.

Tighten the bolts that connect the thimble end of the cable to the Lift Frame. Tighten the 1/2 Eyebolt ends of the cables until there is at least 1/4" of threads above the 1/2 Nylock Nut.



STEP 7B



STEP 7A

ASSEMBLY INSTRUCTIONS

STEP 8

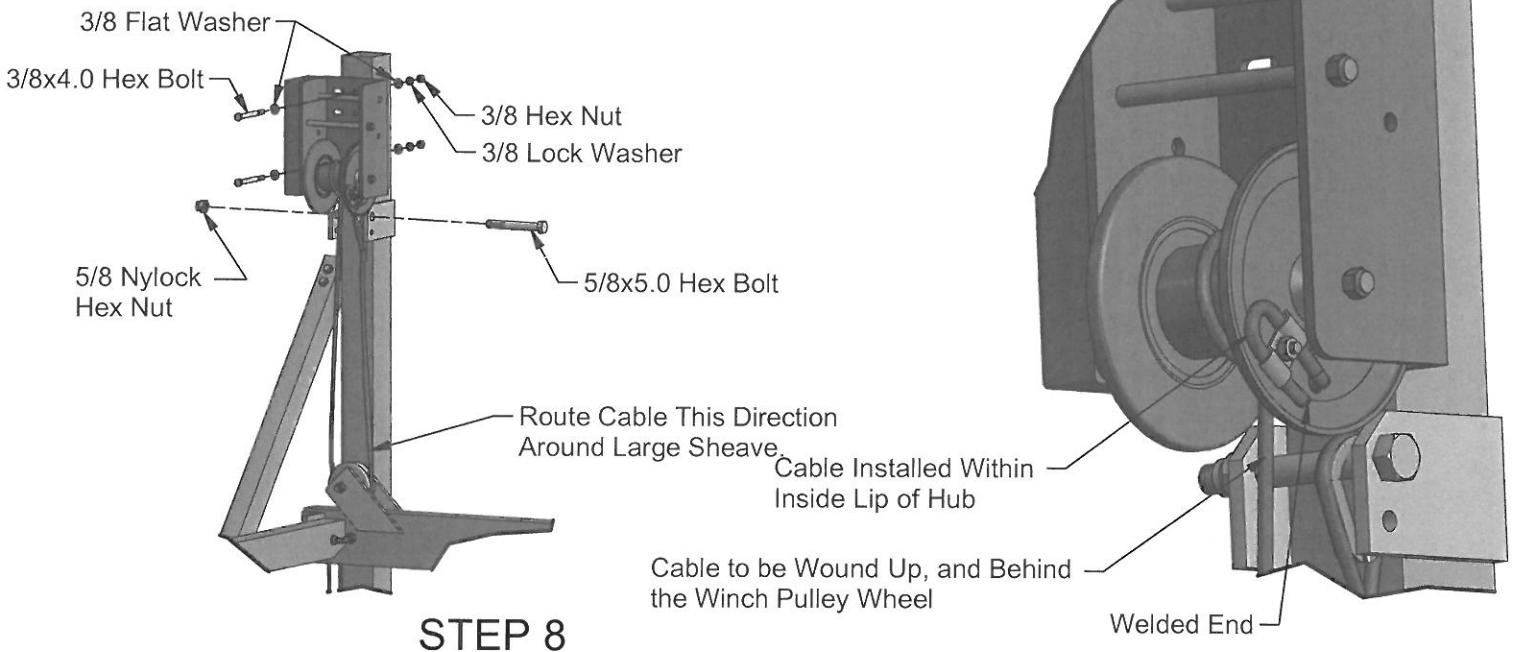
Pull cable through Large Sheave as shown on drawing below. Failure to run cable in this direction could cause the cable to bind. Fasten Cable to Winch Hub. Loosen the 1/4" nut on the cable clamp so it is just started on the bolt, allowing the cable to slide under cable clamp from the side. Thread the cable through the hole on the side of the hub and fasten a Vise Grip (if needed) to the welded end of the cable. (Pull cable up and slide under the inside part of clamp and pull over the bolt and slide under the outside part of the clamp. Maintain pressure through the cable and tighten the 1/4" nut tight.) Mount Winch (Dutton Lainson 3500) to Winch Leg. Insert one 3/8x4.0 Hex Bolt and one 3/8 Flat Washer through the top middle hole of the Winch and through the top hole of the Winch Leg and fasten with one 3/8 Flat Washer, 3/8 Lock Washer and 3/8 Hex Nut. Repeat insertion through the bottom slot and through the Winch Leg's bottom hole as shown in STEP 8 detail.

Tighten both bolted connections until lock washers are flat.

Fasten the thimble end of the Winch Cable to the Winch Leg using one 5/8x5.0 Hex Bolt and one 5/8 Nylock Hex Nut as shown in STEP 8 detail.

Tighten 5/8 Nylock Hex Nut until the nut comes in contact with the Winch Leg's plate.

REFER TO WINCH MANUAL FOR FURTHER INSTRUCTIONS.



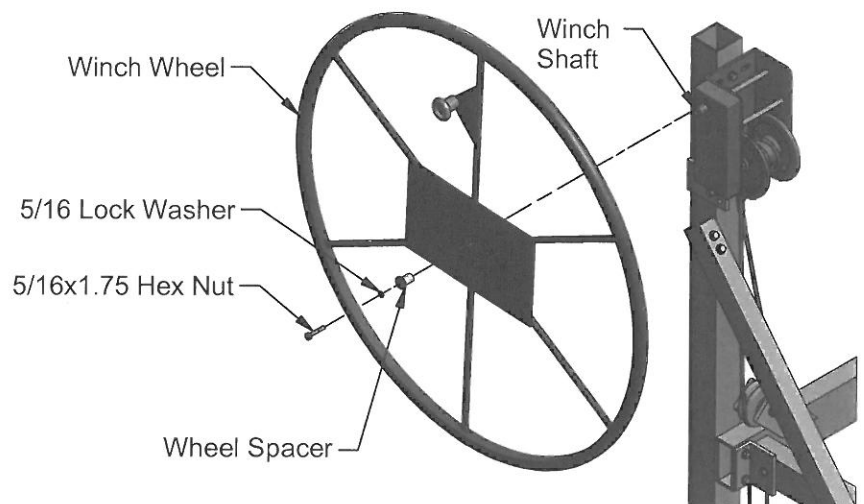
STEP 8

STEP 9

Screw on Winch Wheel to the Winch Shaft until the Winch clicks once. Insert the Wheel Spacer into the center hole of the Winch Wheel, followed by the 5/16 Lock Washer and 5/16x1.75 Hex Bolt and tighten until the Lock Washer is flat. Refer to the detail below.

STEP 10

Level the Rack frame. Wind up Winch Wheel until the corner the Winch Cable is connected to raises up from the Lift Frame. This will be your fixed measuring point. Start with the Front Cable and tighten each eyebolt so all four corners match the fixed measuring point. Now the Rack Frame is level.



DOUBLE CHECK ALL BOLTED CONNECTIONS TO MAKE SURE THEY ARE ALL TIGHT.

INSTALLATION INSTRUCTIONS

Do not under any circumstances, endanger yourself or risk damage to your lift or boat when installing.

- Situations will widely vary between installation sites. Shoreline recommends that your dealer or other trained boat lift installer train you and perform the initial installation.
- Wear protective gloves, clothing and eyewear when assembling and installing the lift.
- Do not assemble, install or use this product if items are missing or damaged.

The following are guidelines or suggestions for installation:

STEP 1

Measure the water depth of the position you want to locate the lift. Measurements should be taken at both the projected position of the end nearest shore and the end furthest from shore.

STEP 2

Before installing, adjust lift legs so the boat can float into position before raising, while still allowing a high enough position so the boat can be fully raised up and out of the water.

STEP 3

Carry, lift or slide the lift into position alongside the dock.

STEP 4

Ensure that your lift is level. Measure the distance from the top of the cross beam to the water surface. The distance at each of the four corners of the lift should be within two inches of each other. If they are not, adjust the legs accordingly.

Note: If the lift legs will extend 3 feet or more, Shoreline recommends deep water braces to stabilize and strengthen the lift. Ask your dealer for more information.

CAUTION

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

STEP 5

Position the Bunk Bracket to fit watercraft so that it does not come in contact with the frame of the lift. After loading and operation the lift, proceed to the operating instructions, remove the boat and recheck that the lift remains level.

OPERATING INSTRUCTIONS

CAUTION

When first using the boat lift after installation, the weight of the boat may cause the lift to settle and become unbalanced. Until you are certain the lift has stabilized, make sure people are not in the immediate vicinity of the lift.

Now that you have installed and leveled the lift, you are ready to raise your boat for the first time. Prior to use, see to it that anyone who may use the lift looks upon the unit not as a toy but a piece of heavy equipment that deserves your respect and good judgment.

- Before allowing anyone to operate the lift, be sure they fully understand the proper operating procedure.
- Do not exceed maximum capacity of the lift; overloading may cause mechanical failure and serious personal injury.
- Do not allow anyone who is in the water within six feet of the lift.
- Do not allow anyone on, in or under the lift while operating.

When operating the lift, the following procedures should be adhered to:

STEP 1

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

STEP 2

Properly balance and center the boat on the lift prior to raising. The boat should be positioned with the center of gravity near the middle of the lift. For most rear engine mounted boats, this requires you to position the boat somewhat forward in the lift.

STEP 3

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 may cause fast spin down of wheel.

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 boat, resulting in a crushing or falling injury or death!

CAUTION

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

STEP 4

Carefully bring the lift up until the bunks or cradles have secured the boat. Then, stop the lift and check to see that the bunks or cradles have automatically positioned themselves to the shape of the hull, as they are designed to do. If so, continue bringing the boat out of the water until it is about one foot above the surface. Stop the lift again and check the stability of the lift, particularly to see that it is fairly level and will not topple over. Finally, continue lifting the boat while paying close attention to the positioning of the lift until it is at its desired height.

STEP 5

After loading and operating the lift, remove the boat and recheck that the lift remains level. (See Step 4 of the Installation Instructions.) If the lift is not level, the legs should be adjusted accordingly. Because the lift may settle and become unbalanced, the lift levelness should be rechecked two weeks after installation and periodically as needed.

STEP 6

If lift is without a boat in it for more than one day, raise the rack (pulleys) fully out of the water to help prevent corrosion of these parts. At all times, make sure the boat is stored high enough out of the water to avoid wave action against the hull. A moving boat as a result of wave action will damage the lift and can take the boat off the lift.

CAUTIONS:

1. Do not over raise lift rack. Stop before top of rack hits cable loops attached to Eye Bolts. Over raising could cause damage to winch, cables or other parts.
2. Do not over lower rack 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. 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.
3. Properly cover your boat, or pull your boat's plug when the boat is in a raised position. Rain water accumulating in your bilge can quickly increase your gross weight over the capacity of the lift.
4. Do not leave lift, or boat on lift, in water if ice formation is possible. Ice can severely damage your boatlift.

SAFETY MAINTENANCE

Monthly Checks

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.

Spring and Falls Checks

1. Inspect nuts and bolts for damage, wear or loose connections. Tighten or replace parts as needed.
2. Inspect lift frame, pulleys, winch and pivot points for unusual wear, damage or bent parts. Replace or repair as needed.
3. Check that the rack is level with the bottom frame of your lift. Cable stretching or settling of lift could require you to adjust nuts on Eye-Bolts.
4. Lubricate winch and wheel threads. Do not get lubricant on brakepads! Brake will fail and wheel will spin down if brake pads are lubricated.
5. Check and lubricate pulleys to ensure that they are turning freely.
6. Check Eye-Bolts to make sure they are not working themselves loose.