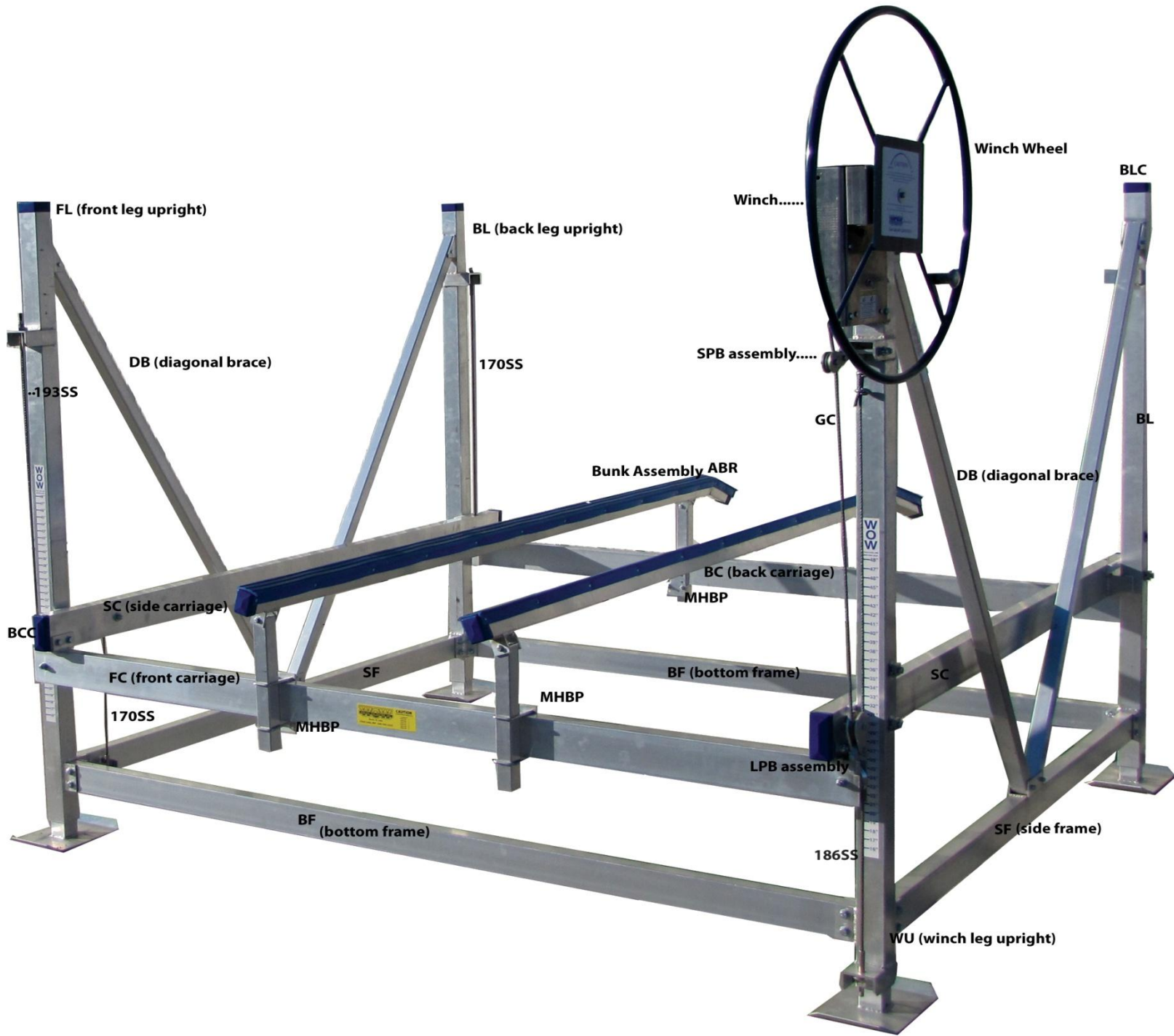




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## **PARTS LIST FOR 50115# VERTICAL BOAT LIFT**

- 2-Back Leg Uprights 1 right, 1 left (BL)
- 1-Front Leg Upright (FL)
- 1-Winch Leg Upright (WU)
- 2-Bottom Frames (BF) for front and back
- 2-Side Frames (SF) with diagonal brace brackets
- 4-Diagonal Brace (DB)
- 1-Front Carriage (FC)
- 2-Side Carriage (SC)
- 1-Back Carriage (BC)
- 4-3x3 Blue Leg Caps (BLC)
- 4-2x5 Blue Carriage Caps (BCC)
- 1-Hardware Bag including:
  - 2-1/2"x 4-1/2" Bolts
  - 24-1/2"x 3-1/2" Bolts
  - 3-1/2"x 1-1/4" Bolts
  - 8-3/8"x 3" Bolts
  - 29-1/2" Locking Nuts
  - 8-3/8" Locking Nuts
  - 58-1/2" Washers
- 1-5000# Winch
- 1-Winch Hardware Bag including:
  - 1-5/16"x1" Bolt
  - 1-5/16" Fender/Washer
  - 1-5/16" Lock Washer
  - 1-5/16" Flat Washer
- 1-36" Blue Winch Wheel
- 1-16' 5/16" Galvanized Cable (GC)
- 2- 5/16" Cable Clamps
- 1-Large Brass Pulley Block Assembly (LPB)
- 1-Small Brass Pulley Block Assembly (SPB)
- 2-3/8" x 170" Stainless Steel Cable (170SS)
- 1-3/8" x 193" Stainless Steel Cable (193SS)
- 6-5/8" Brass Nuts
- 6-5/8" Regular Nuts
- 6-5/8" Washers
- BUNKS:**
- 2-Vinyl Padded Aluminum Bunk Rails (ABR)
- 4-Multi-Hole Backer Plates (MHBP)
- 8-2"x5"x3/8" Square U-Bolts
- 16-3/8" Washers
- 16-3/8" Nuts



## WOW, INC. 50115 VERTICAL LIFT ASSEMBLY

1. Remove the top cover of the winch box to allow access for inserting the attaching bolts. Lay the winch leg upright flat at a good working height (on saw horses or across a rail or table)
2. Attach the winch to the winch leg upright. **(FIG 1)** Line up the bolt holes on the winch box with the mounting holes on the winch upright. Using a  $\frac{1}{2}$ "x 1-1/4" bolt with a  $\frac{1}{2}$ " washer, place through the lower hole in top of winch and through the mounting plating on lift leg. Secure with  $\frac{1}{2}$ " washer and locking  $\frac{1}{2}$ " nut. Repeat with bottom mounting hole. Use the last  $\frac{1}{2}$ "x 1-1/4" bolt and washer through the topmost hole of the winch, secure with  $\frac{1}{2}$ " washer and locking  $\frac{1}{2}$ " nut. Securely tighten nuts.
3. Lay out lift pieces for frame: **(FIG 2)** 2 back leg uprights (BL), front leg upright (FL), 2 bottom frames (BF) and 2 side frames (SF). On back legs, the flange at the upper end of the leg faces toward the center of the lift. This is where the 170SS cables are bolted.
4. Fit the bottom back frame and side frames into the channels on the uprights and line up the bolt holes. Bolt the side frames and the back bottom frame to the back leg uprights by placing a  $\frac{1}{2}$ " washer onto a  $\frac{1}{2}$ "x 3-1/2" bolt, placing the bolt through the holes and placing another  $\frac{1}{2}$ " washer and locking  $\frac{1}{2}$ " nut on the bolt. Bolts should run from the outside of the lift towards the inside, nuts on the inside. Finger tighten. Repeat to attach the side frame to the front leg upright.
5. Set the winch leg upright into the framework and attach the bottom front and side frame to the upright in the same manner
6. Insert the diagonal braces, label side out and to the top, into the channels on the tops of the front leg uprights and the channels at the middle of the side frames. Repeat with the remaining diagonals by placing into channels on the back leg uprights and the middle channels. Secure using a  $\frac{3}{8}$ "x 3" bolt through the holes and finishing with a  $\frac{1}{2}$ " locking  $\frac{3}{8}$ " nut. Bolts should run from the inside of the lift to the outside with nuts on the outside of the lift. Finger tighten.
7. Square the frame by running a tape diagonally from front to back and checking the measurement on each corner. **(FIG 3)** When the frame is squared, tighten all the 3-1/2" bolts securely. Tighten the 3" diagonal brace bolts securely.
8. Lay out the carriage pieces **(FIG 4)** by placing the side carriages on the front and back bottom frames and laying the front and back carriage pieces on the ground beneath the side carriage ends. (The side carriages should be placed with the 1" hole (6-3/4" from the edge) on the **top** of the carriage piece at the **back** of the lift. The 1" hole on the other end will be on the **bottom** of the carriage at the **front** of the lift. The front

carriage has an arched channel that will hold the large pulley assembly and should be placed by the winch leg upright.

9. Insert the cables (170SS) into the front of the side carriage pieces, OVER the pulley and pushing through to the back of the lift. Push the threaded end of the cable UNDER the pulley and pull out through the 1" hole in the underside of the side carriage piece. Insert the threaded end into the hole in the plate on the inside of the front leg upright. Place a 5/8" washer, 5/8" brass nut and 5/8" regular nut on the threads and tighten. Pull the cable through the back end of the side carriage, UNDER the pulley, then feed the threaded end back OVER the pulley and up and out of the 1" hole on the top of the side carriage. **(FIG 5)** Put the threaded end through the hole in the top plate on the inside of the back leg upright and secure with a 5/8" washer, 5/8" brass nut and 5/8" regular nut. Do not tighten at this point so the carriage can be leveled in the last step.
10. Place the side carriage ends into the channels of the front and back carriage pieces, lining up the holes. Secure with a 1/2" washer on a 1/2"x 3-1/2" bolt threaded through the holes then finished with a 1/2" washer and a locking 1/2" nut. Bolts should run from the inside of the lift to the outside, nuts on the outside of the carriage. **DO NOT PLACE THE WASHER AND NUT ON THE BOLT BY THE CHANNEL THAT WILL HOLD THE PULLEY ASSEMBLY AT THIS POINT.**
11. Run the cable (193SS) through the front carriage. From the winch leg side, thread one end of the cable OVER the pulley and push through to the other side. **(FIG 6)** The cable must come out UNDER the pulley on the opposite front side. Put the threaded end of the cable through the hole in the bottom plate attached to the winch upright. **(FIG 7)** Put on a 5/8" washer, the 5/8" brass nut, then the 5/8" regular nut. Tighten. Pull the cable up to the plate at the top of the front leg upright, insert the threaded end of the cable up through the hole, then put on a 5/8" washer, brass 5/8" nut and 5/8" regular nut. ( Don't tighten so the cables can be adjusted to level the carriage as the last step.)
12. Using the 16' piece of 5/16" galvanized winch cable, make a loop back on itself about 6" from the end. Secure with 2 5/16" cable clamps as shown in picture. **(FIG 8)** Using a 1/2" washer on a 1/2"x 4-1/2" bolt, insert through the back holes of the channel beneath the winch on the winch leg, capture the loop of cable and secure on the outside of the channel with a 1/2" washer and locking 1/2" nut.
13. Remove nut, bolt and washer from large pulley assembly. Run the galvanized cable between the plates over the pulley. Capture the arched plate on the top of the front carriage between the assembly plates. **(FIG 9)** Reinsert bolt assembly and tighten bolts.
14. Using the second 1/2"x 4-1/2" bolt and 1/2" washer, place through front

holes of channel on the winch upright, capture the end link of the small pulley assembly and secure with 1/2" washer and locking nut.

**15. Tighten all carriage bolts securely.**

16. Turn the large blue winch wheel onto the threaded aperture of the winch, making sure it runs on smoothly and doesn't cross-thread. Turn until it starts to click. Using the 5/16"x 1" bolt fitted with the locking washer, 5/16" large fender washer and 5/16" flat washer, secure the wheel to the winch . Mount spinner knob on wheel.
17. **(Refer to instructions in LorenzWinch.pdf)** Pull the end of the galvanized cable through the small pulley assembly **(FIG 10)** and insert into the access hole and between the clamp on the drum of the winch. **(FIG 11)** . Tighten both clamps using a 5/32<sup>nd</sup> Allen wrench. Keeping tension on the cable with one hand, spin the winch wheel to wind up the cable evenly across the winch drum. **(FIG 12)**
18. Using a tape, level each corner of the carriage, tightening the brass and regular nuts on the upper threaded cable ends so the carriage hangs level.
19. Place the 3"x 3" blue caps on the tops of the upright legs and the 2'x 5" blue caps on the ends of the side carriage pieces.
20. Attach full length bunks by securing with the multi-hole backer plates and 3/8" washers, u-bolts and nuts. Backer plates are placed on the inside of the front and back carriage pieces with the single set of holes to the top. The u-bolts capture the bunk supports on the outside of the carriage pieces-see picture. After the lift is in the water, adjust your bunk height and width to your boat. Securely tighten all nuts.
21. Level your lift once in the water by using the measurement tape on the legs. The telescoping inside legs are held by double set screws on the outside of each upright. Adjust the legs up or down and secure with the set screws when the desired water depth is attained. Adjust all legs in the same manner, making sure the water level is at the same height on the measurement tape.

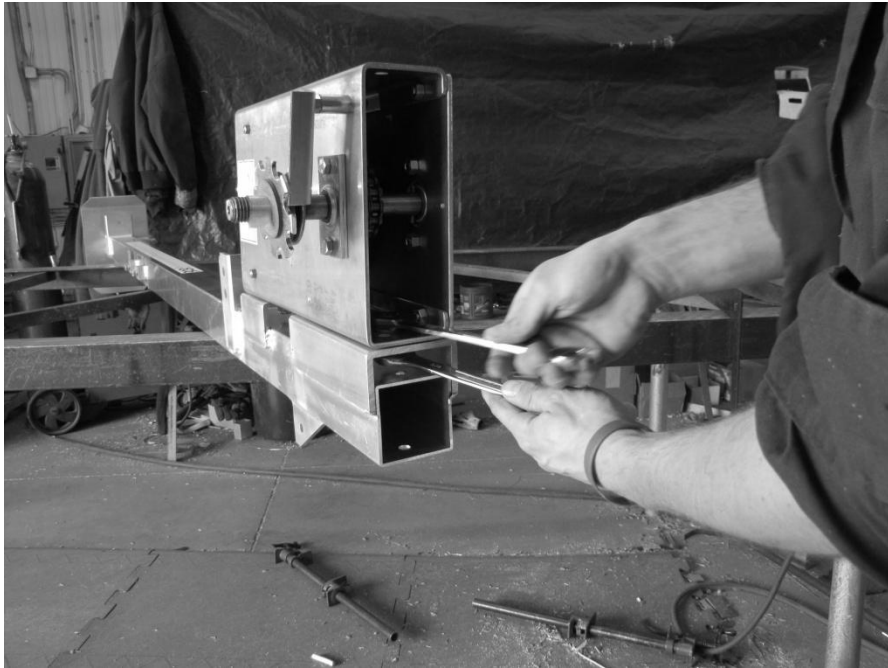


FIG 1



FIG 2



FIG 3



FIG 4

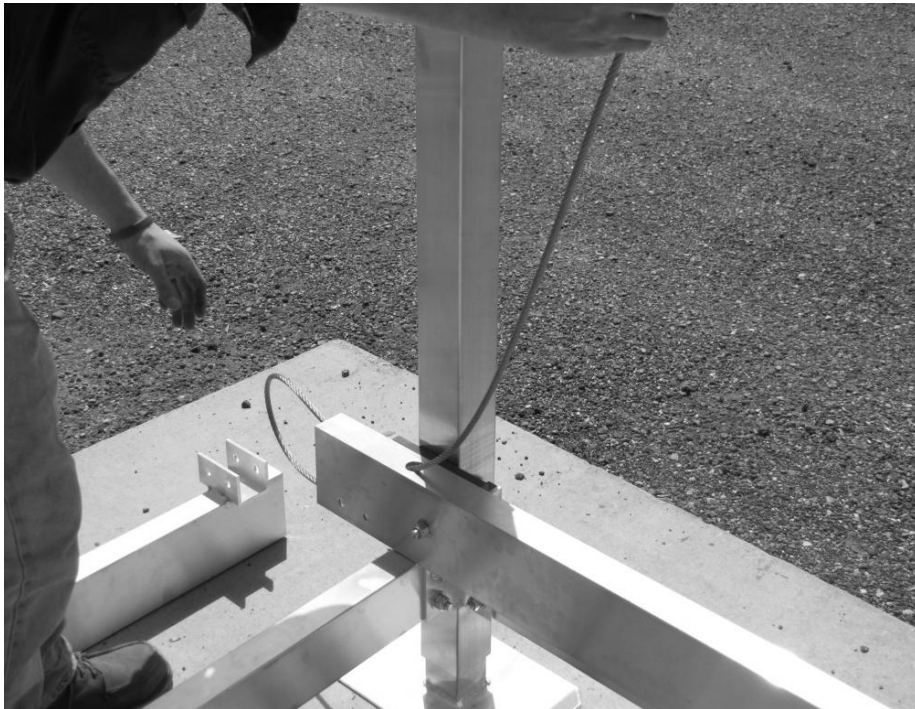


FIG 5



FIG 6

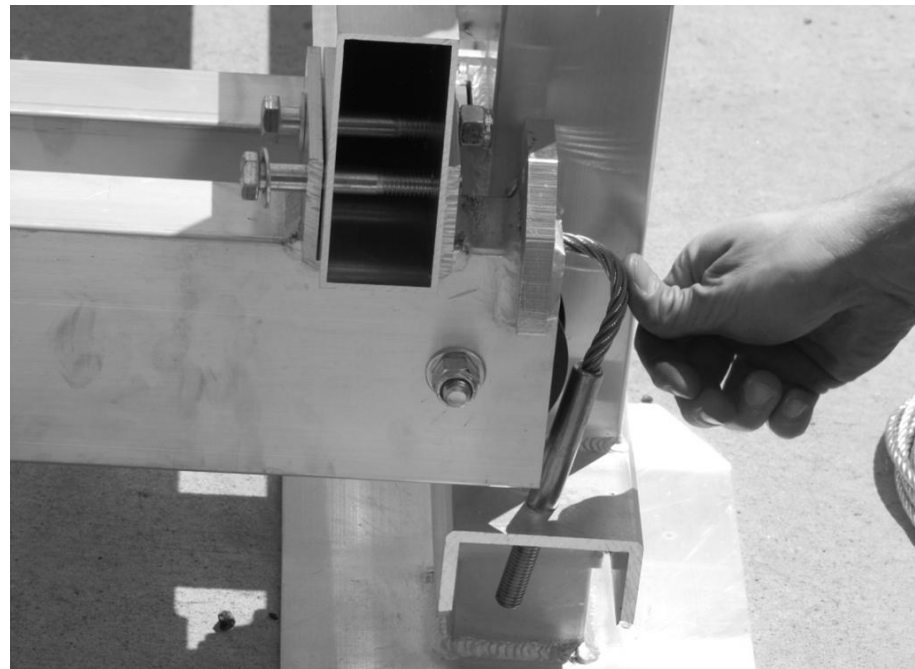


FIG 7



FIG 8



FIG 9



FIG 10

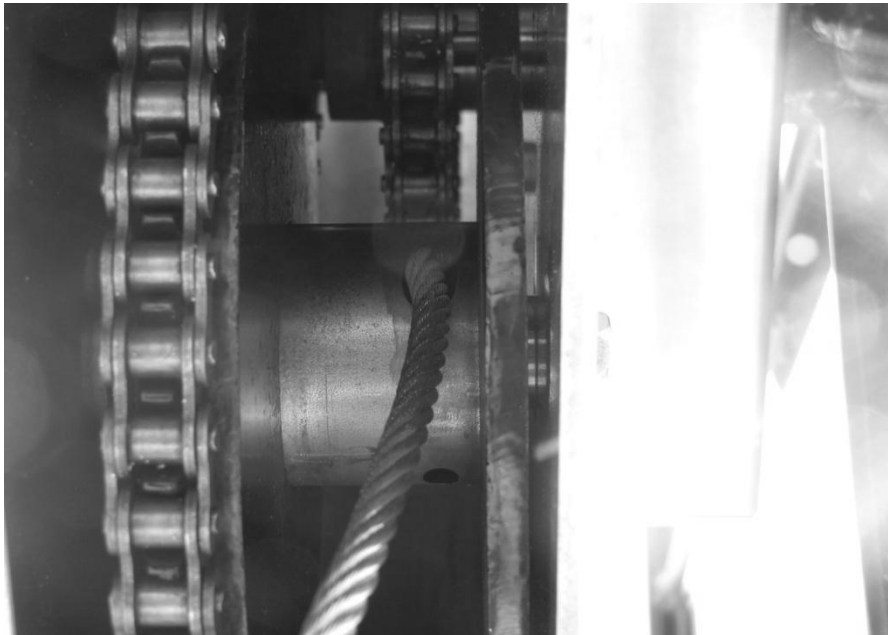


FIG 11



FIG 12