



QABL

QUALITY ALUMINUM BOAT LIFTS, LLC  
ELEVATOR INSTRUCTIONS

Elevator Lift

## Quality Aluminum Boat Lifts, INC.

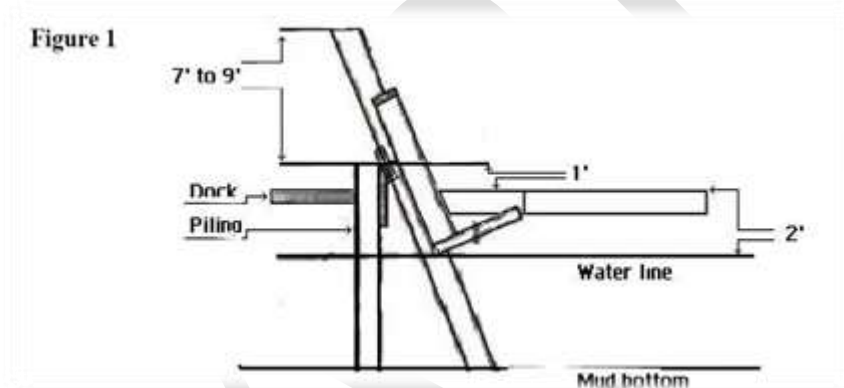
### Installation Instructions: Elevator Lift

Thank you for your recent Boat Lift purchase, it is important to note that this lift may be mounted to a dock piling, concrete seawall, or a concrete deck. The depth of water needs to be approximately 24" plus the draft of the watercraft. It is the contractor's responsibility to determine and construct suitable support fixtures and bracing for lift piling and/or seawall mounts. The Elevator Lift cannot be mounted to a freestanding piling as the piling may collapse. For tech support e-mail: [qualityboatlift@gmail.com](mailto:qualityboatlift@gmail.com)

**NOTE:** The piling spread should be set no more or no less than the specification sheet for your lifts requirement.

#### STEP ONE (1): PILING MOUNT INSTALLATION

1. Cut the piling approximately 1' above the highest desired point of travel of the cradle.(Figure 1)



#### STEP TWO (2): ATTACHMENT OF PILING MOUNTS

1. Thru bolt piling mounts to the top of the piling with three (3) ½" bolts or threaded rod. Leave a few inches of exposed piling above the mounting holes.

**NOTE:** (FIGURE 2 – 2.2) it is recommended to shave the piling flat to prevent track twist.



Figure 2



Figure 2.1



Figure 2.2

**STEP 3: INSTALLING THE TRACK MOUNT**

1. Confirm the mounting holes of the top units are facing the water.
2. Slide the track through the mount.

**NOTE:** For **Straight Lifts** use a level to guide the track into the ground.

For **Angle Lifts** use an angle locator to guide the track into the ground, or cut a 2" x10' or 2" x12' @24 Degrees to put on the piling to help keep the angle or the track correct.

(FIGURE 3)

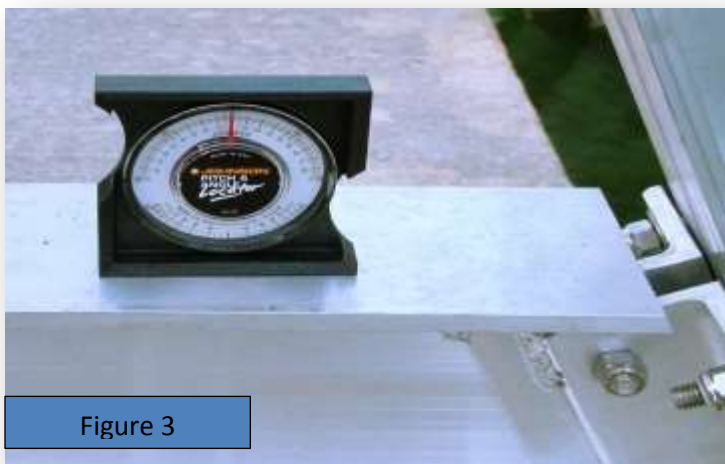


Figure 3

**STEP 4: SECURE THE TRACK**

1. Secure the track with hammer or water jet into the ground.

**NOTE:** Confirm that the tracks stay at the degree the specifications recommend. It is also recommend that a minimum of 8' of the track must be in soil.

**STEP 5: INSTALL CRADLE ARM ON TRACK**

**NOTE:** Slide cradle arm onto track. It is recommended that the installation is completed with the use of a Barge or Crane.

1. Place the cradle arm on the water side of the track.
2. Pull the cradle arm to the top of the track until the top rollers are higher than the track.
3. Pull the cradle arm back until top rollers are behind the water side of the track.
4. Lower the cradle arm onto the track.
5. Secure the cradle arm with a rope. This will avoid the cradle from being pulled from the bottom or allow the cradle to be left in the water.

**NOTE:** (FIGURE 4, 5)

Confirm that the Top Rollers are placed on the inside of the track, and that the Bottom Wheels are on the outside of the track (water side).

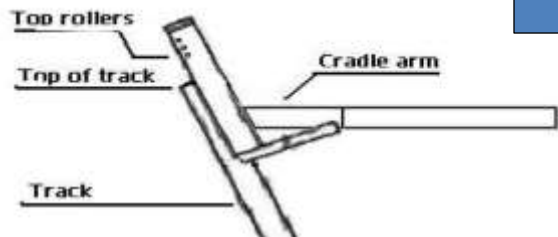


Figure 4

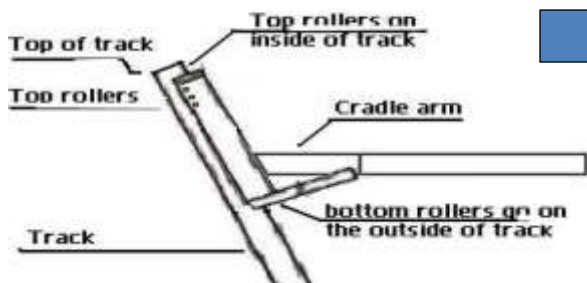


Figure 5

**STEP 6: ATTACHMENT OF ELEVATOR**

**NOTE:** Confirm that the hoist mounting plate is on the left side of the track. (Water side facing the shore) FIGURE 6 / 7

1. Attach the elevator top unit to the track.

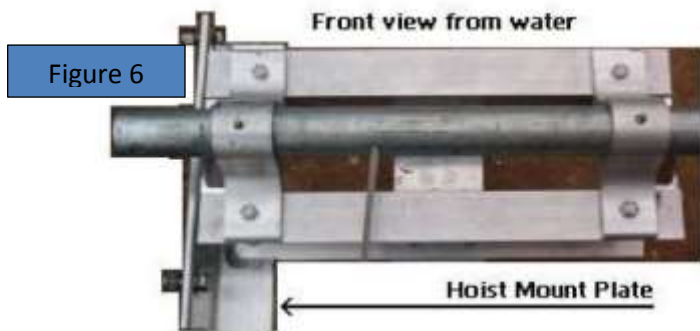


Figure 6



Figure 7

**STEP 7: ATTACHMENT OF DEADMAN BRACKET**

**NOTE:** The deadman bracket can be mounted to the left or right depending on the cable winder placement on the top unit. The deadman angle should mount on the opposite side of the cable start of the cable winder. (FIGURE 8)



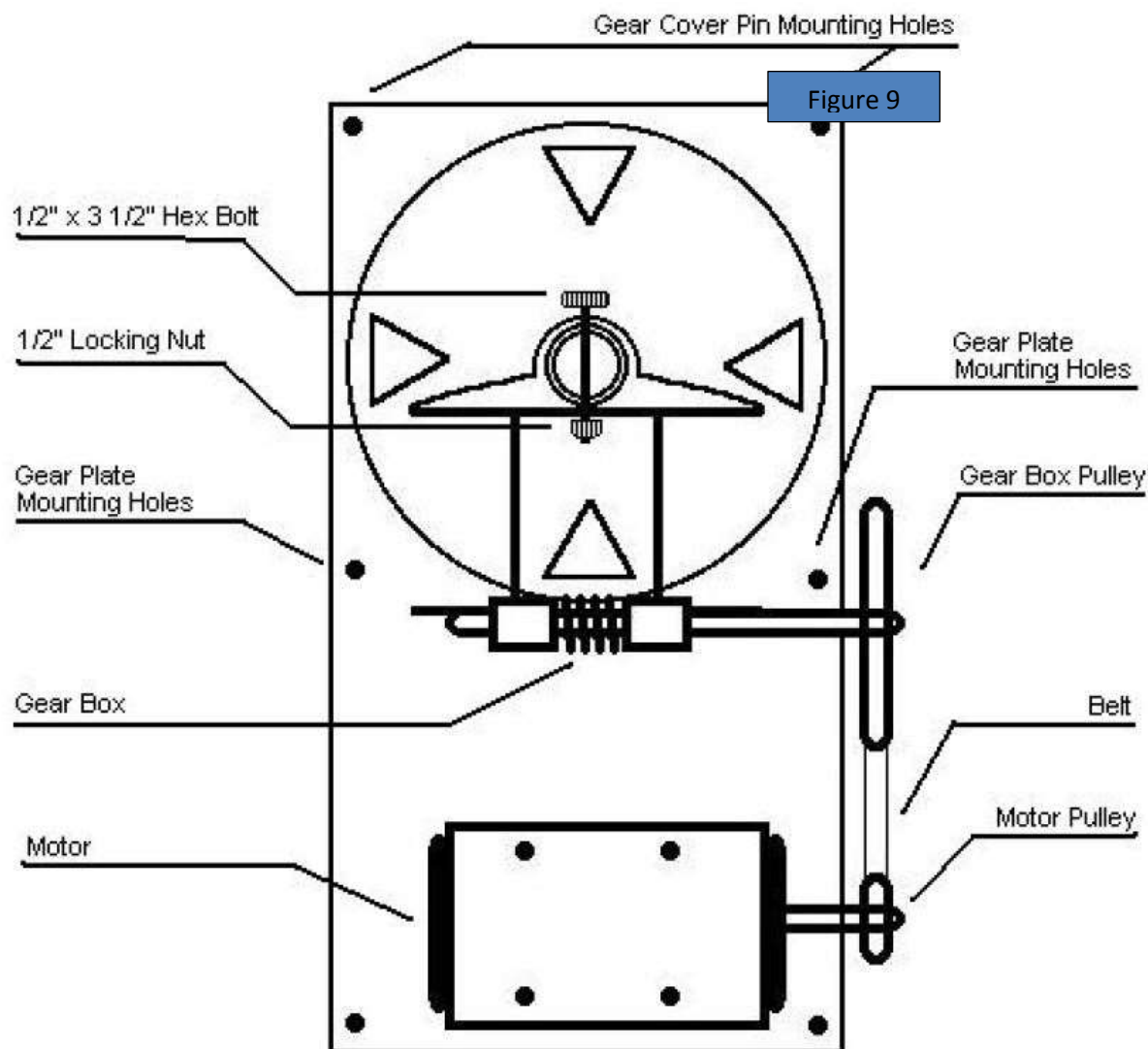
Figure 8

1. Attach the deadman bracket to the track to the pre drilled hole for the deadman bracket.

**STEP 8: HOIST PLATE**

(FIGURE 9/ 10)

1. Attach the motor to the back plate only using the upper two (2) mounting holes.
2. Attach the 10" pulley to the hoist plate.
3. Confirm the motor pulley and hoist pulley aligns.
4. Attach the belt to the two (2) pulleys.
5. Confirm there is tension on the belt.



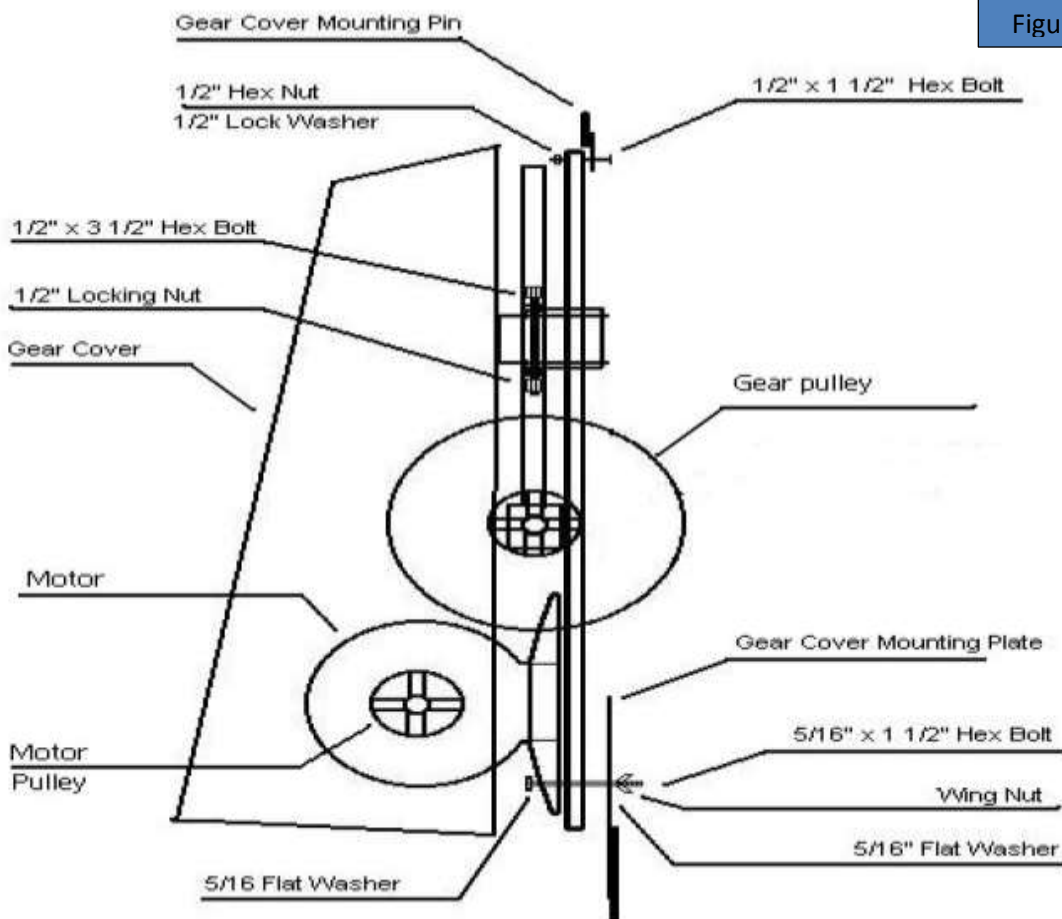


Figure 10

### STEP 9: MOTOR PLATE INSTALLATION

1. Place the motor plate on the top unit drive pipe with the motor on the bottom.
2. Secure to the hoist using the motor plate to lift hardware. **(DO NOT TIGHTEN COMPLETELY)**

### STEP 10: CABLE WINDER, CABLE INSTALLATION

1. Insert the cable into the cable winder.
2. Place a small wrap of duct tape on end of the cable to keep from unraveling.
3. Slide the cable into the hole till it touches the back side of the drive pipe.
4. Pull the cable approximately half way back out of the hole.
5. Fold the cable that is sticking out of the drive pipe in the direction that is preferred for the cable to come out of the drive pipe.
6. Use a hammer to hit the cable where it needs to be inserted into the cable winder. this will allow the cable winder to inherit a slight memory.
7. Lift the cable straight back.
8. Push the cable into the drive pipe until the end comes far enough out of the drive pipe to place the cable clamp on.
9. tighten the cable clamp on the cable at least 2" from the end of the cable.
10. pull the cable where it is going into the cable winder, this will pull the cable clamp back into the drive pipe.

**NOTE:** confirm that the allotment of cable is enough to be able to place the cable clamp back to where the cable entered the cable winder.

### STEP 11: MOTOR SPACER INSTALLTION

1. Slide the motor spacer onto the drive pipe and in the main hoist. This will take the play out of the hoist and the drive pipe.
2. Secure the motor spacer with the gear bolt provided with the hoist. **IMPORTANT: Do not use a Stainless Bolt if the Bolt is missing.**
3. Tighten the motor plate to lift hardware.

### STEP 12: ADJUSTMENT OF DEADMAN BRACKET

1. Place the cable down from the hoist to the pulley in the top of the cradle arm and back up to the adjustable cable bracket.
2. confirm the cable adjuster bolts are secure before winding the cable. (FIGURE 11/ 12)

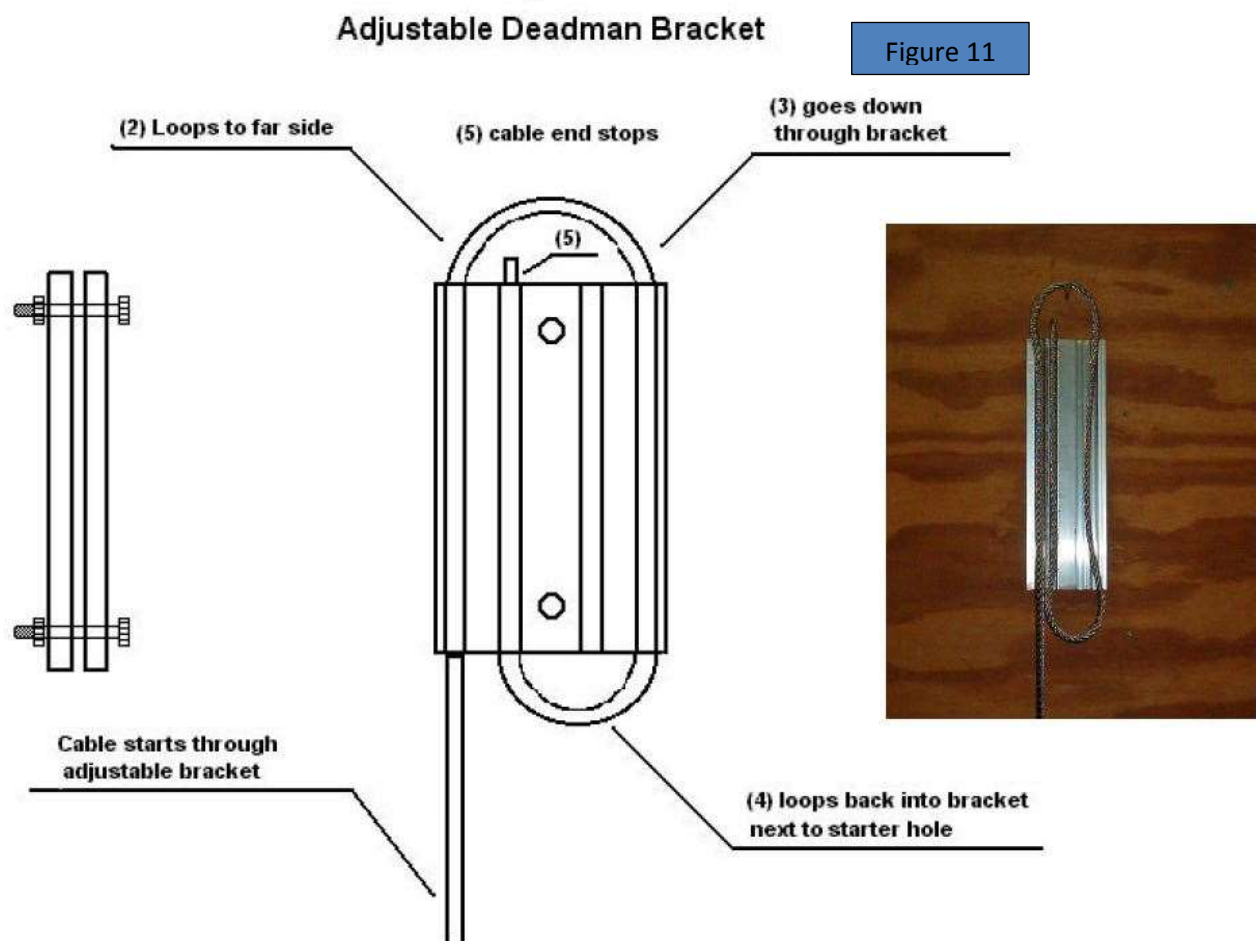




Figure 12

**Your Unit should look similar to this.**

### **STEP 13: HARDWIRING OF DRIVE UNIT**

1. Complete the hard wire of the drive unit, otherwise plug in the drive unit into the power supply.

### **STEP 14: WINDING OF CABLE ON CABLE WINDER**

1. Wind up the cable onto the cable winder; Turn the switch to the up position. Confirm that the cable is wrapping on the outside (**OPEN SIDE**) of the cable winder.

**NOTE:** If the units are picking up incorrectly on the wrong side when the top unit is turned to up the switch wires on T8 & T9 will need to be switched inside of the switch. **IMPORTANT: SHUT OFF ALL POWER BEFORE OPENING THE SWITCH BOX.**

2. **IMPORTANT: (WEAR GLOVES).** Continue to roll the cable onto the cable winder. Be sure to hold tension on the cable as it rolls onto the cable winder until the cable starts to pull the cradle arms up the track.
3. Level the cradle arms.

**NOTE:** If Cross Bracing is not included continue to STEP 16.

### **STEP 15: CROSS BRACING INSTALLATION**

**NOTE:** Confirm the specification sheet to determine how many cross braces the specific lift will require.

1. Confirm that the placement of the cradle arms is level & square.
2. Attach the cross bracing to the cradle arms.
3. Attach one (1) of the cross braces to the bottom of the cradle arm closet to the shore.
4. Attach the opposite side of the cross arm to the bottom farthest from the shore.
5. Attach the next cross brace on top of the flange on the bottom of the cradle arm farthest from shore.
6. Confirm that the cradle is square.
7. Drill a hole in the middle where the two (2) cross braces meet.
8. Attach the bolt in the middle to secure the two. (figure 13)



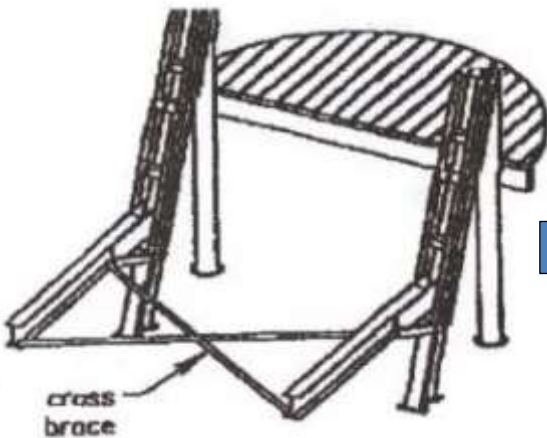


Figure 13

### STEP 16: GUIDE POST BRACKET INSTALLATION

1. Attach the guide post brackets to the cradle arms.  
(FIGURE 14 /15)

**NOTE: Straight Lift** (Figure 14)

**Straight lifts** the guide post will mount as close to land as possible. Confirm that the cradle arms come up to the top of the track that the guide post will not hit the top unit.

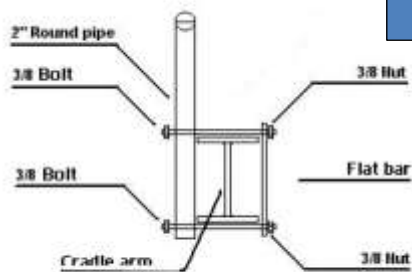


Figure 14



**NOTE: 24 Degree Lift** (Figure 15)

**24 Degree Lifts** the guide post will mount at the bottom of the cradle arm located by the lower roller. This would be completed by loosening the nuts on the bottom of the guide post bracket to clamp to channel were the rollers are mounted.



Figure 15

**STEP 17: ATTACHMENT OF BUNK BRACKETS TO CRADLE ARMS**

1. Measure the width of the boat.
2. Guide post edge out on the cradle arm to where the center of the boat should be making a center mark.
3. Take the eight (8) aluminum brackets (4 sets) attach each pair to the cradle arm with two (2) stainless steel bolts. One (1) bolt will rest on top of the cradle arm; One (1) bolt will hang under the cradle arm.
4. From the center mark, mount each of the bunk brackets 12" to 16" away from the center mark.

**NOTE:** Bunk Spreads do sometimes vary 12" to 14" for boats up to 9000lbs. Larger boats can go up to 16". (FIGURE 16)

**Bunk Bracket**

Figure 16

**STEP 18: ATTACHMENT OF BUNKS BRACKETS TO THE BUNK BRACKETS**

1. Confirm that the cradle arms are level and square.
2. Place the bunks on the inside of the bunk brackets.
3. With the cradles square measure out the distance of the cradle arms. Transfer to the inside of the bunks allowing equal overage hang past the beams.
4. Confirm that the cradle arms are level and square.
5. Lace the bunk position with the marks at the edge of the cradle arms.
6. Drill 3/8" holes
7. Install the bunk bolts.
8. Repeat steps 1-7 for the opposite end of the bunk and 2<sup>nd</sup> bunk, tighten all hardware. (FIGURE 17)

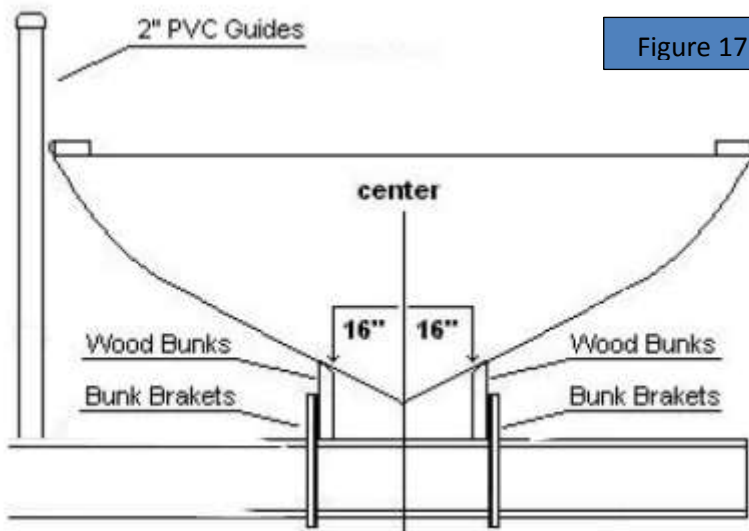


Figure 17

**STEP 19: WEIGHT PIPE INSTALLATION**

1. Slide the weight pipe into the top of the guide post.
2. Place the pvc guide onto the weight post.

**STEP 20: COVER INSTALLATION**

1. Attach the cover to the lift by fitting the cover over the mounting pins on top.
2. Loosen the wing nuts on the bottom of the drive plate slide.
3. Place the plate down into the holes on the bottom of the covers.
4. Tighten the Wing Nuts.

**Complete Installation: (FIGURE 18 & 19)****FITTING BOAT TO LIFT:**

1. Bunk Adjustment: loosen the eight (8) bunk brackets (figure 7). mark center line port to starboard on both cradle beams. The bunk spread varies; for boats up to 9,000lbs. (26' to 28' range). Spread bunks 32" apart; 16' from center lines on cradle beams.
2. Adjust guide post brackets (FIGURE 7) to beam of boat and tighten. Use same centerline on cradle beam as before.
3. Place boat into position for lifting. guide poles will keep boat centered over bunks. very seldom is there more than three (3) feet of boat hanging beyond the stern lift pilings. you need to get the center boat balance as close as possible to center of lift (Bow to Stern). this will evenly distribute the load over the two (2) cradle beams. **The Bow and Stern Cable Tension will be equal with a balanced load.**
4. Lifting of the Boat Adjustment: Start lifting the boat, if the boat starts listing as you pick it up you will have to readjust the pickup bunks and lift the boat again. If the boat does not list, lift boat do a visual inspection of Hull and Bunk contact. The following are necessary for proper

bunting. The Keel of the boat should **NOT** be touching the Cradle Beams, if making contact with the Cradle Beam(s) you will need to move the Wood Bunks closer together.

5. Confirm the pickup bunks are not resting against any thru-hull accessories; water, intakes or transducers, etc.
6. Confirm that Cradle Beams and boat is level.

**HELPFUL NOTES:**

1. In order to switch the motor direction change T-8 & T-9 in the switch.
2. Your gem remote wiring diagrams are located inside the remote.
3. Stickers on the top unit should face the outside. (Away from each other)
4. Place a rubber mat between top of piling and aluminum to prevent electrolysis.
5. Installer is responsible for determining that pilings are square and adequate to carry the lifts payload.
6. **Warning:** any modification to lift voids the warranty.
7. **Caution:** boatlifts are not made for lifting humans.

Any questions regarding the installation of your lift our technical experts are happy to assist you @ our email: [qualityboatlift@gmail.com](mailto:qualityboatlift@gmail.com) Attention: Technical Support. To quicken the process please add the pictures of the part or lift area you have questions about send to our staff also.

Thank you,

Quality Aluminum Boat Lifts, INC.