



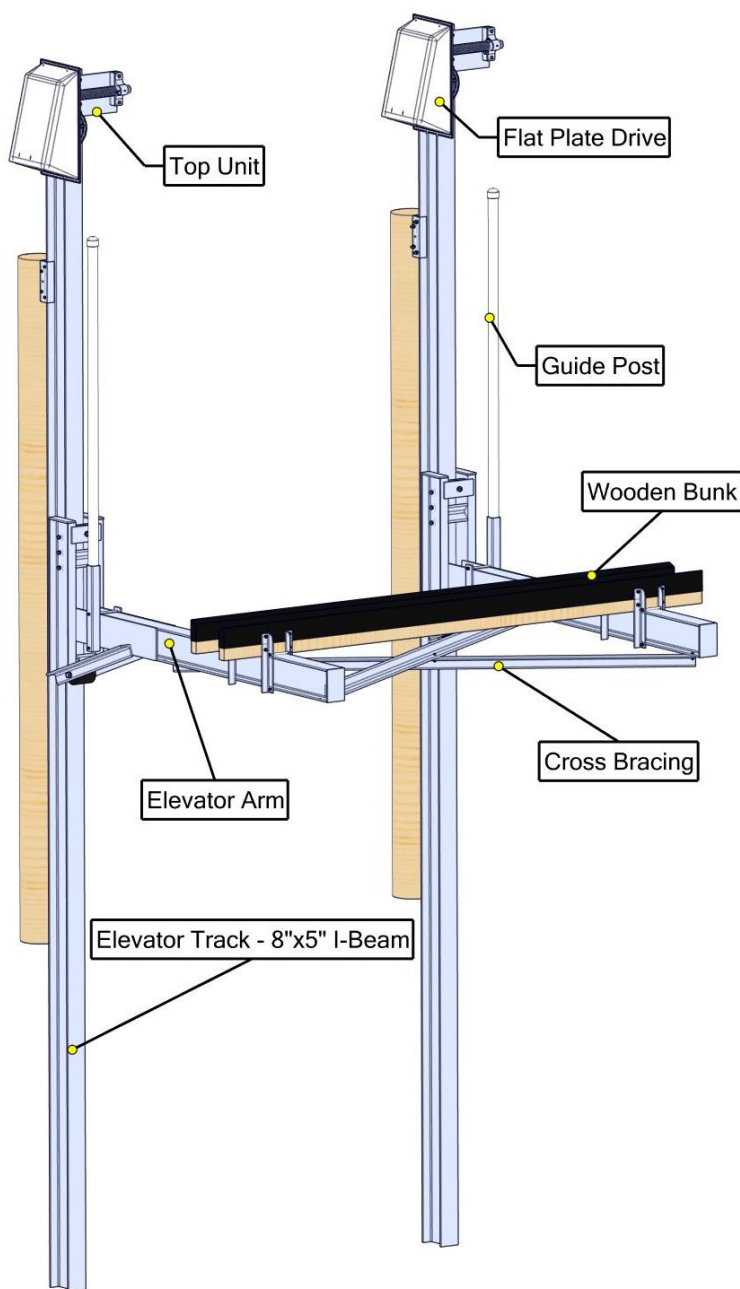
# BOAT LIFT DISTRIBUTORS INSTALLATION INSTRUCTIONS

90 Degree Elevator Lift (3k and 6k)

## 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.

Please read this manual entirely before attempting the installation. Failure to do so could result in serious injury or death.



## Quality Aluminum Boat Lifts, INC.

Components List						
Piling/Track	Track		Cradle	Bunks - Wooden		
	Name	Qty.		Name	Qty.	
	I-Beam - 8'x5' at 20'	2		Bunk Bracket - 14.5"	8	
	Zinc Anode with bolt and lock washer	2		Flat Washer - 3/8"	16	
	Piling Mount Bracket			Hex Bolt - 3/8"x3"	16	
	Name	Qty.		Hex Bolt - 3/8"x6-1/2"	8	
	Hex Bolt - 1/2"x6"	6		Hex Nut - 3/8"	24	
	Hex Nut - 1/2"	6		Lock Washer - 3/8"	24	
	Lock Washer - 1/2"	6		Wooden Bunks (Carpeted)	2	
	Channel - 5"x2"x15"	2		Cross Bracing		
	Angle - 2"x3"x10"	4		Name	Qty.	
	Piling Hardware			Cross Bracing - 3"x3" Angle	2	
	Threaded Rod - 1/2"	6		Hex Bolt - 3/8"x1-3/4"	5	
	Fender Washer - 1/2"	6		Hex Nut - 3/8"	5	
	Flat Washer - 1/2"	6		Lock Washer - 3/8"	5	
	Hex Nut - 1/2"	12		Guide Posts		
	Lock Washer - 1/2"	12		Name	Qty.	
	Cradle	Cradle		PVC (5ft) with Caps	2	
		Name		Qty.	Galvanized Weight Pipe	2
Pre-Assembled Cradle Arm that includes the installed rollers and the cable pulley		2	Guide Post Bracket	2		
		Guide Post Bracket Mount Plate	2			
		Hex Bolt - 3/8"x9"	4			
		Hex Nut - 3/8"	4			
		Lock Washer - 3/8"	4			

### Components List (continued)

	4k Flat Plate Drive Unit			Top Unit	
	Name	Qty.		Name	Qty.
<b>Top Unit</b>	Drive Unit - 4k Flat Plate	2	<b>Top Unit</b>	Pre-assembled top unit that includes the drive pipe, bearings, and cable winder	2
	Drive Unit Cover - 4k Flat Plate	2			
	Drive Pulley - 10"	2			
	Bottom Slide Plate with Pins	2		Aluminum Drive Pipe Spacer	2
	Motor - 1HP Painted, 56 Frame	2		Drive Pipe Bolt - 5/8"x3-1/2"	2
	Motor Pulley - 2"	2		Cable Deadman Bracket - 7"	2
	Top Washer with Pins	4		Cable Deadman Spacer	2
	Belt - 4L360 or Ax34	2		Hex Bolt - 1/2"x1-1/2"	10
	Carriage Bolt	8		Hex Nut - 1/2"	10
	Lock Washer - 5/16"	8		Lock Washer - 1/2"	10
	Hex Nut - 5/16"	8	<b>Cable</b>	<b>Cable (not shown)</b>	
	Hex Bolt - - 1/2"x2"	4		Name	Qty.
	Hex Nut - 1/2"	4		SS Cable - 5/16"x33'	2
	Half Moon Pulley Cover with (2) bolts and nuts	2			

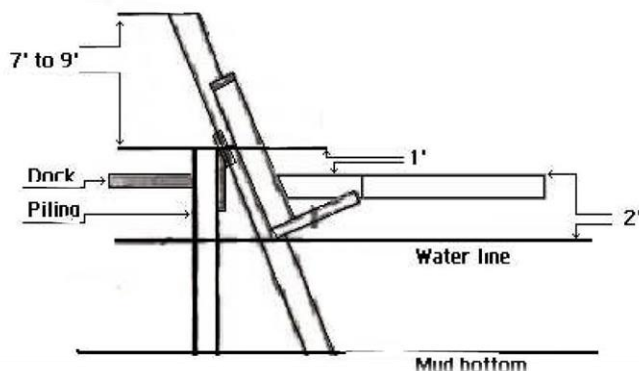
## Installation Instructions: Elevator Lift

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

### STEP 1: PILING ADJUSTMENT

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

Figure 1



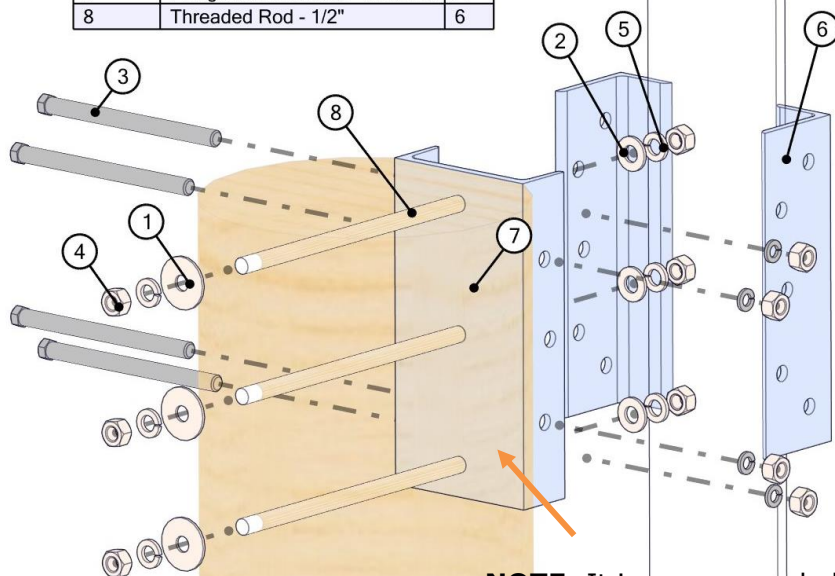
### STEP 2: ATTACHMENT OF PILING MOUNTS

**Place a rubber mat between the pilings and the piling mounts to act as an electrolysis isolator.**

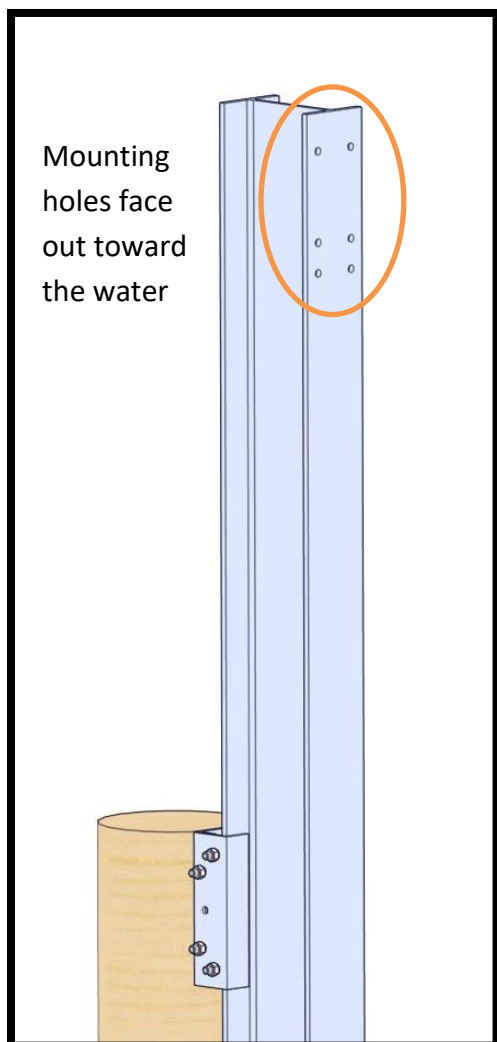
Thru-bolt the piling mounts to the tops of the pilings with three (3) 1/2" bolts or threaded rod for each piling. Leave a few inches of exposed piling above the mounting holes.

Install the Piling Mount Bracket as shown.

BOM ID	Description	Qty
1	Fender Washer - 1/2"	6
2	Flat Washer - 1/2"	6
3	Hex Bolt - 1/2"x6-1/2"	8
4	Hex Nut - 1/2"	20
5	Lock Washer - 1/2"	20
6	Piling Mount Bracket - Angle	4
7	Piling Mount Bracket - Channel	2
8	Threaded Rod - 1/2"	6



**NOTE:** It is recommended to shave the piling flat to prevent track twist.



### STEP 3: INSTALLING THE TRACK MOUNT

1. Confirm the holes used to mount the top units are facing the water.
2. Slide the track through the piling mount.

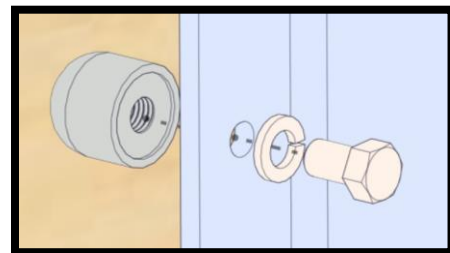
**NOTE:** For **Straight Lifts** use a level to guide the track into the ground.

### STEP 4: SECURE THE TRACK

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

**NOTE: The track should be set according to your lift specification sheet. Per engineered specifications, the tracks should be set a minimum of 8ft into the ground.**

Install a sacrificial zinc anode by drilling a hole in the track somewhere below the water line. This zinc button will protect the track.

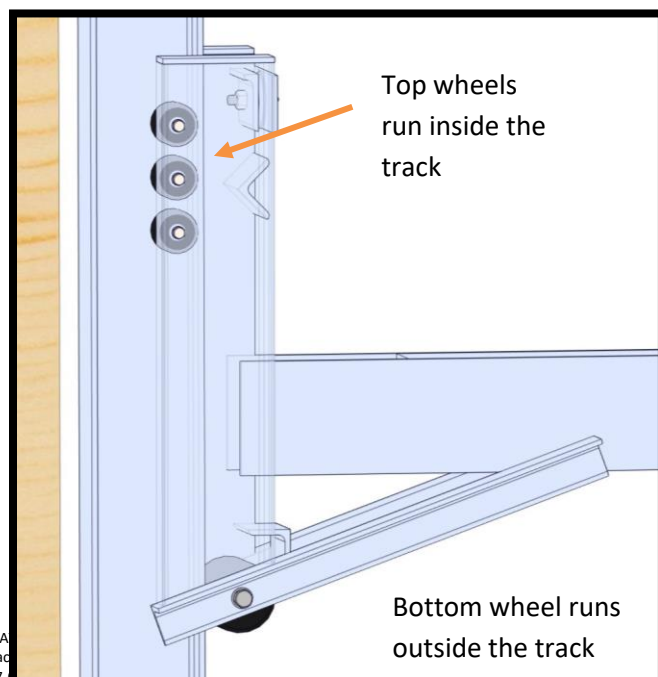


### STEP 5: INSTALL CRADLE ARM ON TRACK

**NOTE:** To slide cradle arm onto the track, it is recommended that the installation be 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 keep the cradle from being pulled to the bottom.

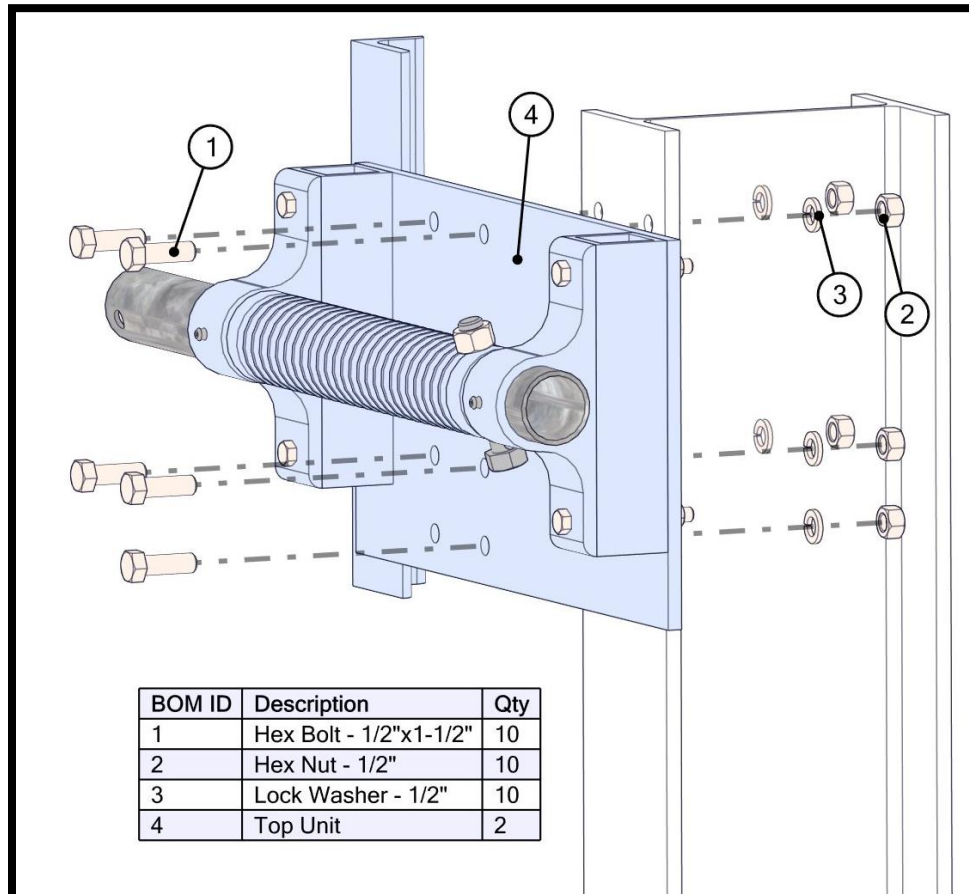
**\*\* Confirm that the top wheels are placed on the inside of the track, and that the bottom wheels are on the outside of the track (water side).**



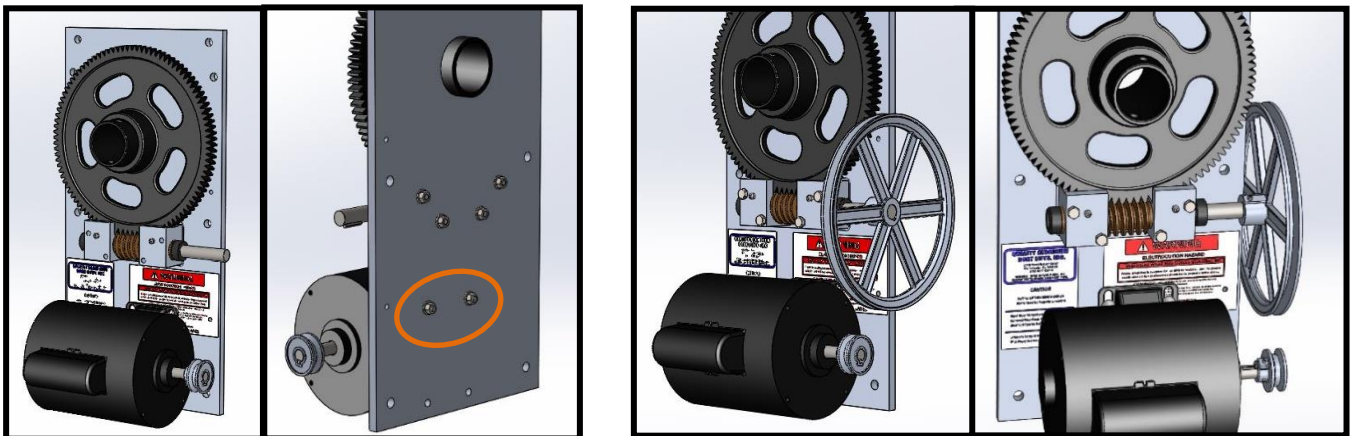


## STEP 6: ATTACHMENT OF ELEVATOR TOP UNIT

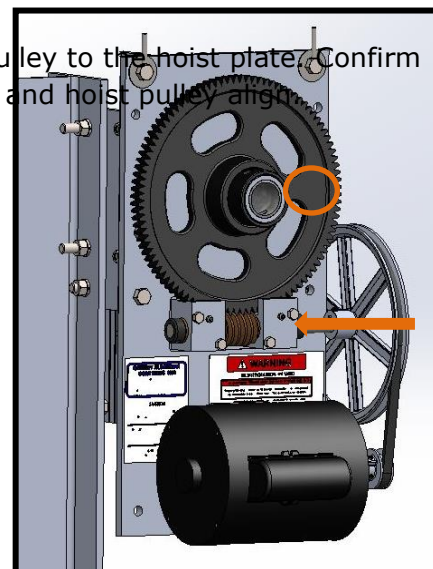
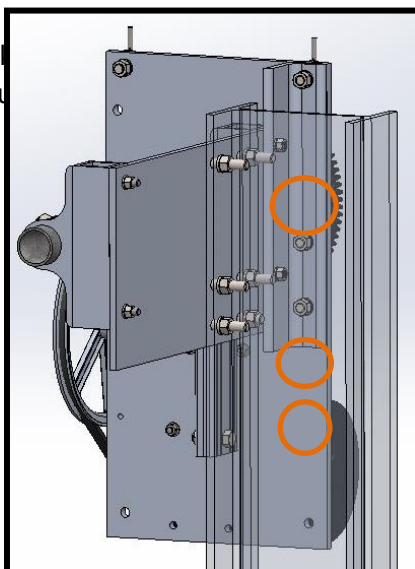
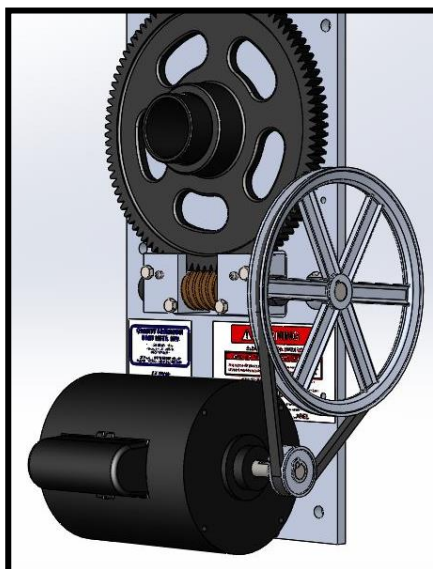
Attach the elevator top unit to the top of the track using the hardware and five (5) of the mounting holes as shown below.



## STEP 7: HEFTY HOIST MOTOR PLATE



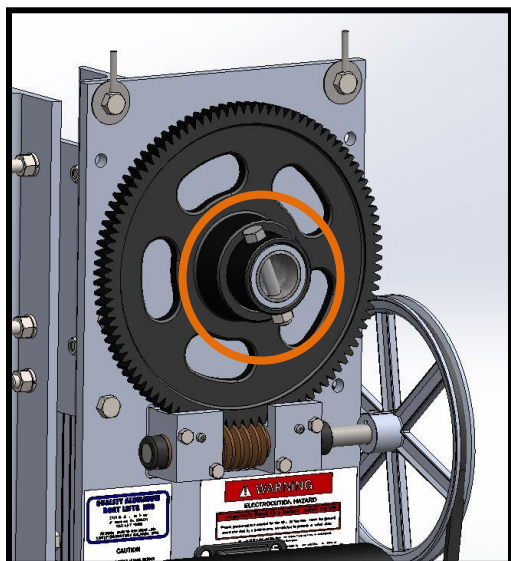




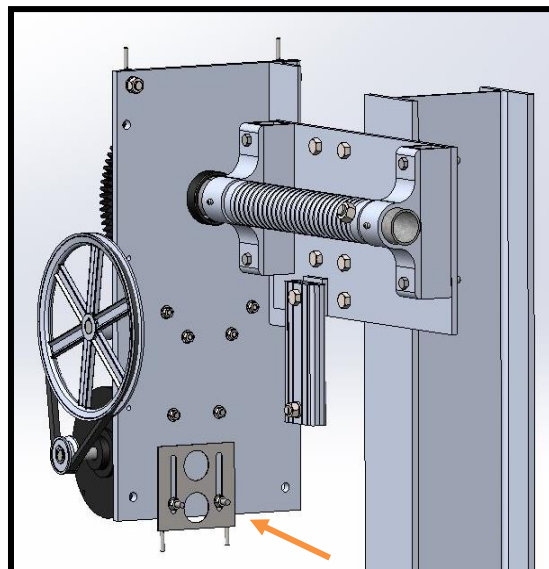
3. Attach the belt to the two pulleys. Confirm there is tension on the belt.

4. Attach the top left washer by mounting the drive unit to the top unit using the top left hole. Secure the drive unit to the top unit using the other two holes shown above.

5. Attach the top right washer to the drive unit plate. Slide the aluminum motor spacer between the drive pipe and the drive unit gear. This will take the play out of the hoist and the drive pipe.

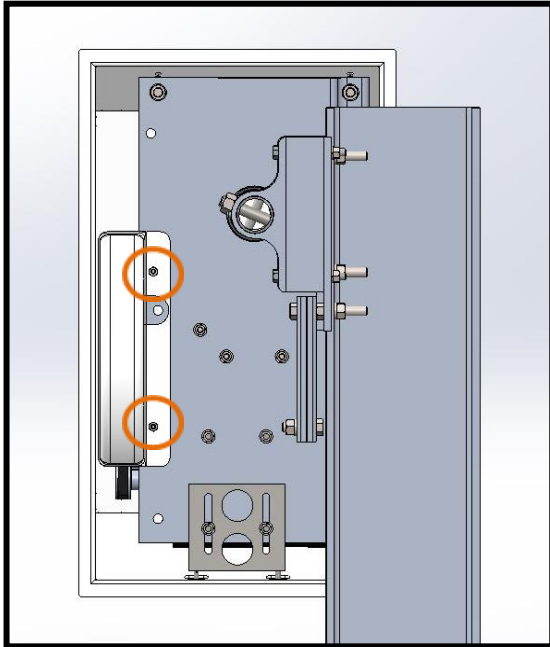


6. Secure the motor spacer with the 1/2" x 3-1/2" gear bolt and 1/2" lock nut provided with the hoist.  
**IMPORTANT: Do not use a Stainless Bolt if the Bolt is missing.**

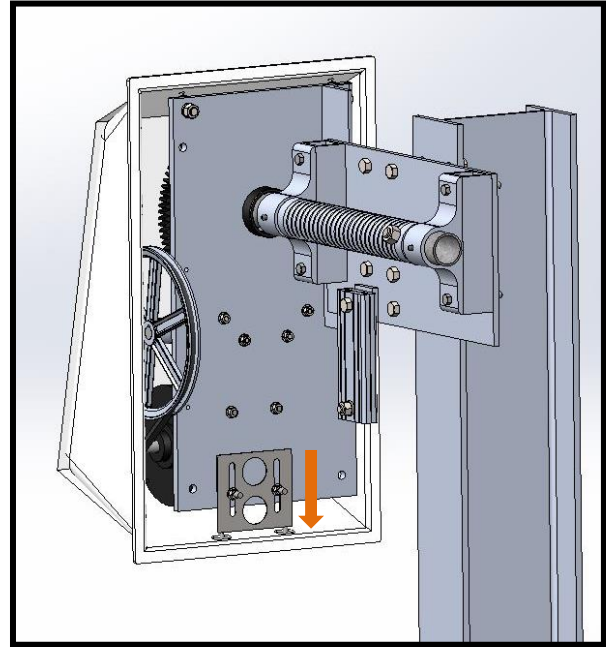


7. Attach the bottom sliding plate using two carriage bolts through the bottom motor mounting holes.



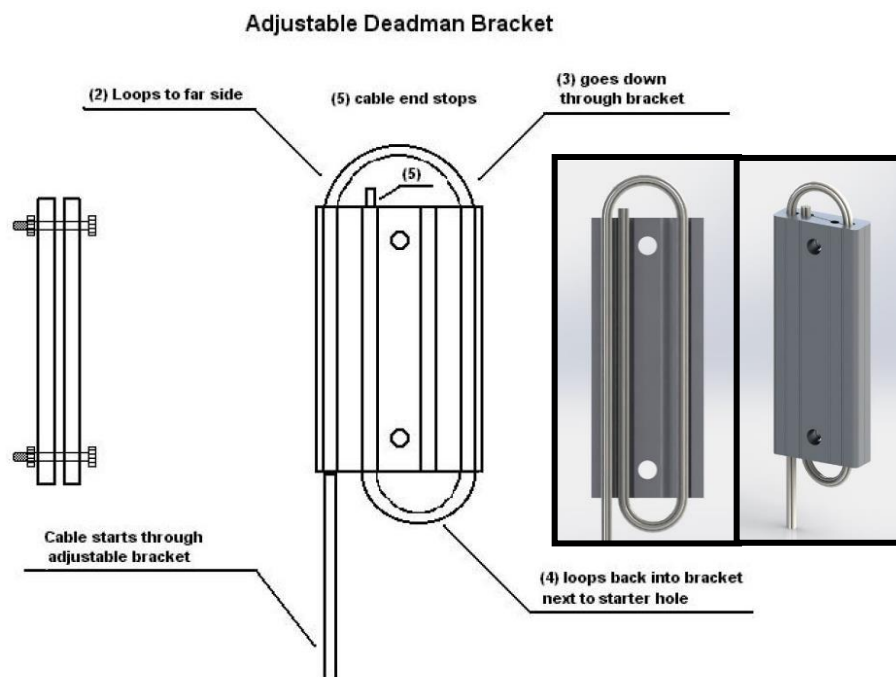


8. Install the half-moon cover over the 10" pulley using the two holes shown above.

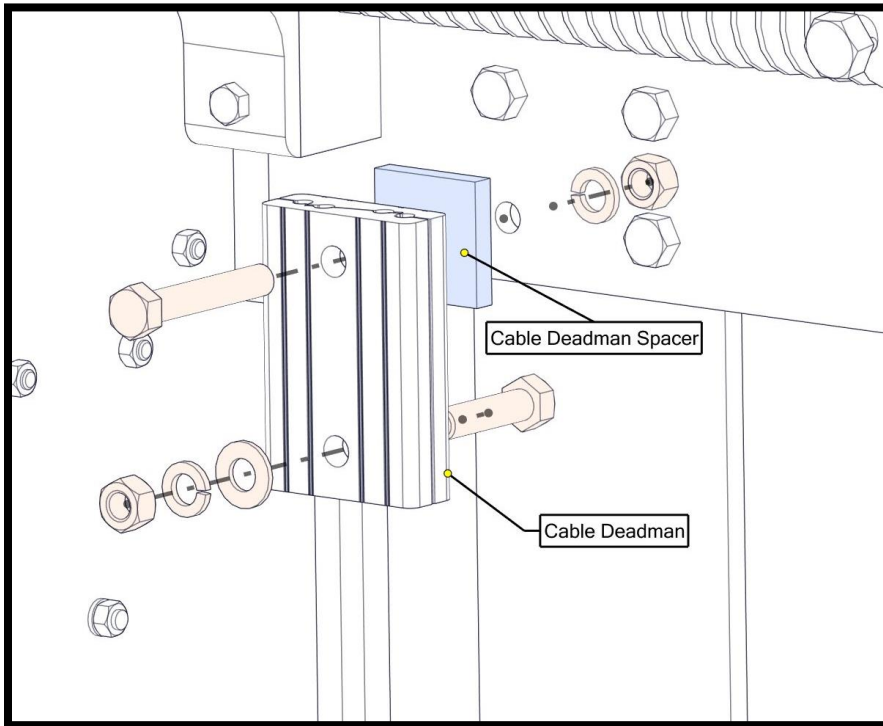


9. Put the cover on over the top washer pins and pivot the cover until the bottom holes are in line with the bottom sliding plate. Slide the bottom plate down until the pins fit through the bottom holes in the cover and tighten the plate hardware to secure in place.

## STEP 8: CABLE INSTALLATION

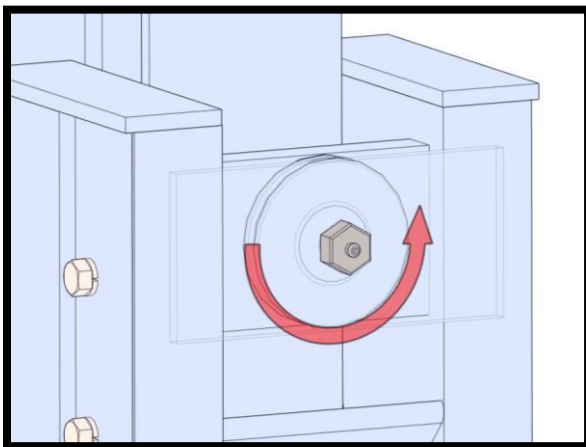


1. Make sure one end of each cable is installed in each deadman bracket as shown.

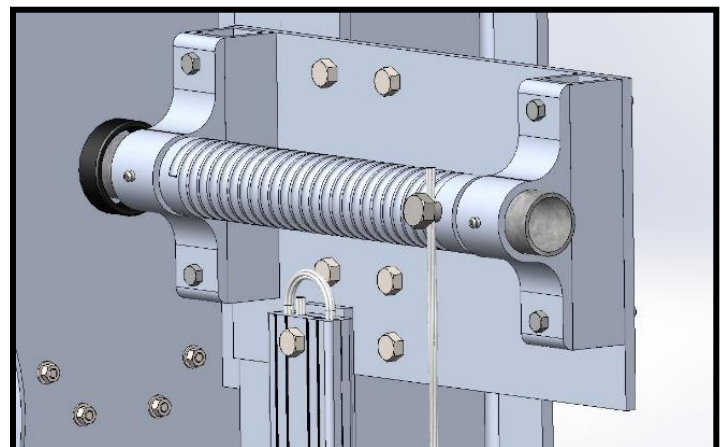


2. Attach the 3-1/2" deadman bracket to the track to using the bottom left hole of the top unit.

\*Cable not shown



3. Take the free end of the cable and wrap it around the pulley in the top of the cradle arm. Bring the end back up to the cable winder.



4. Insert one end of the cable through the cable bolt hole and tighten the cable bolt until the cable is securely clamped to the cable winder.

### STEP 9: HARDWIRING OF DRIVE UNIT

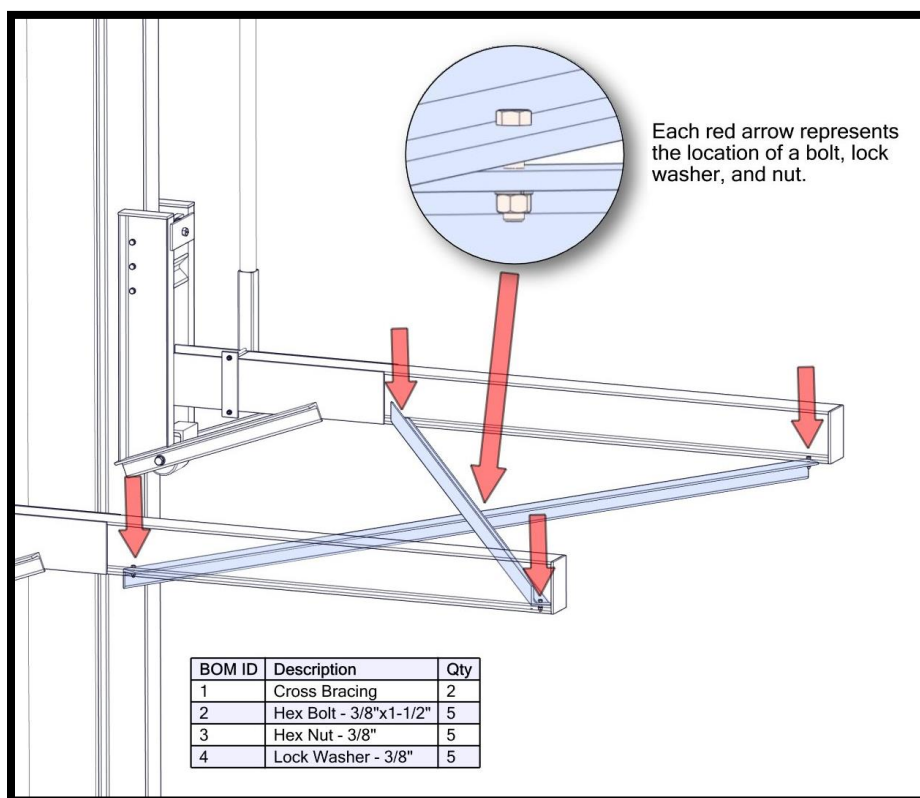
1. Complete the hard wire of the drive unit, otherwise plug the drive unit into the power supply.  
Visit [boatliftinstructions.com](http://boatliftinstructions.com) for wiring diagrams.

### STEP 10: 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 either of the cables is winding on the wrong side of the cable winder when the switch is turned to the up position, 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.

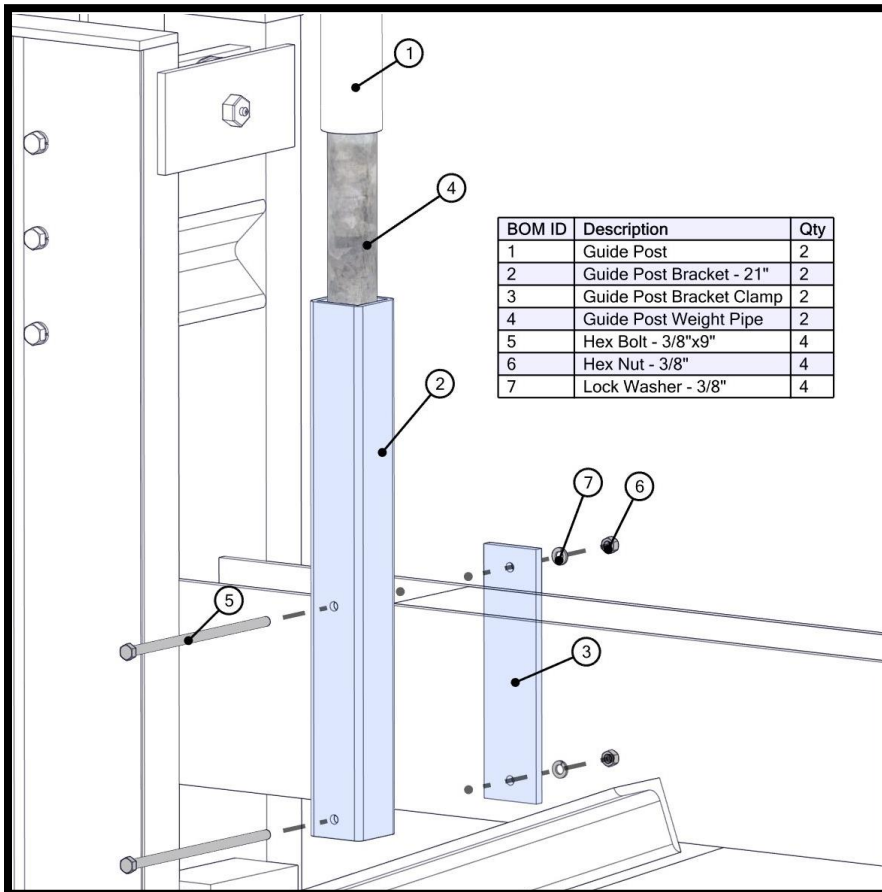
### STEP 11: CROSS BRACING INSTALLATION

**NOTE:** Use 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 one of the braces to the bottom of the cradle arm closest to the piling and shore.
3. Attach the opposite side of the cross arm to the bottom farthest from the shore.
4. Attach the next cross brace on top of the flange on the bottom of the cradle arm farthest from shore.
5. Confirm that the cradle is square.
6. Drill a hole in the middle where the two cross braces meet.
7. Attach a bolt in the middle to secure the two braces.

## STEP 12: GUIDEPOST BRACKET INSTALLATION

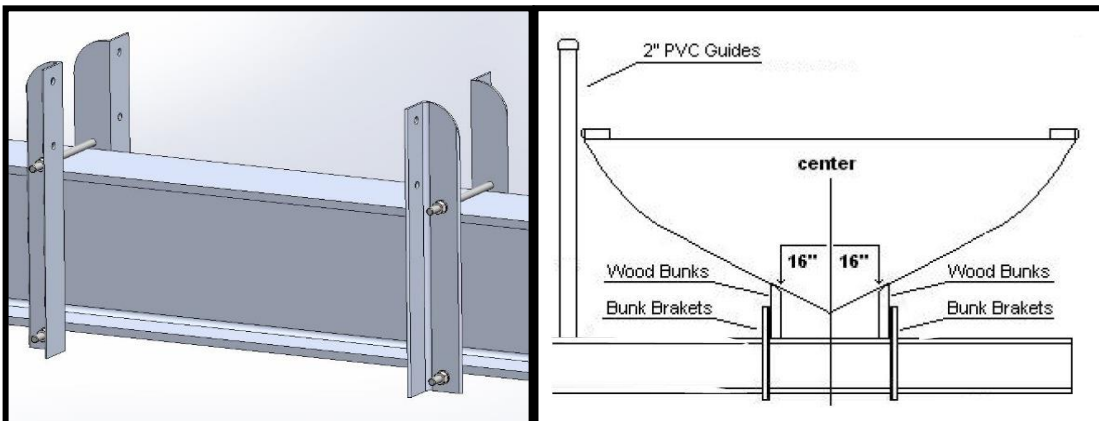


1. Attach the guidepost bracket and clamp using the hardware as shown below.
2. Slide the galvanized weight pipe into the guidepost bracket.
3. Slide the PVC Guidepost over the weight pipe.

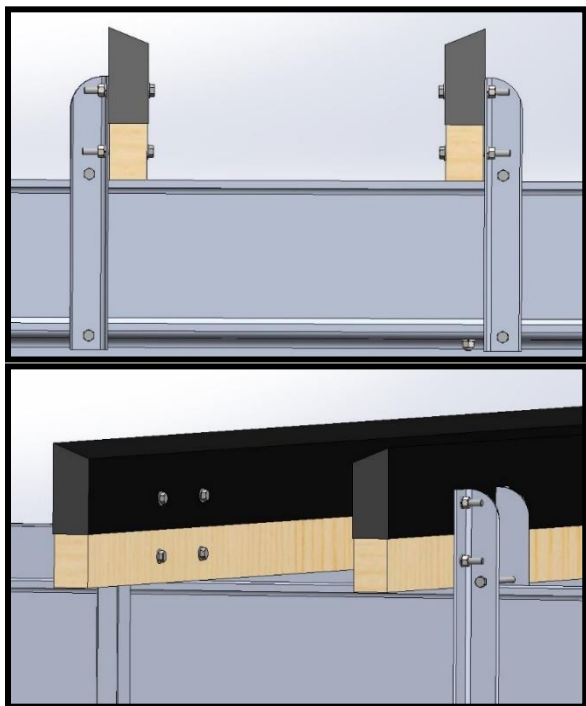
## STEP 13: ATTACHMENT OF BUNK BRACKETS TO CRADLE ARMS

1. Measure the width of the boat.
2. Measure from the outside of the guidepost toward the outside of the cradle arm and mark the location of the center of the boat on the cradle arm.
3. Take the eight aluminum brackets (4 sets) and attach each pair to the cradle arm with two stainless steel bolts. One bolt will rest on top of the cradle arm; One bolt will hang under the cradle arm.
4. Mount each of the bunk brackets 12" to 16" away from the center mark.

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

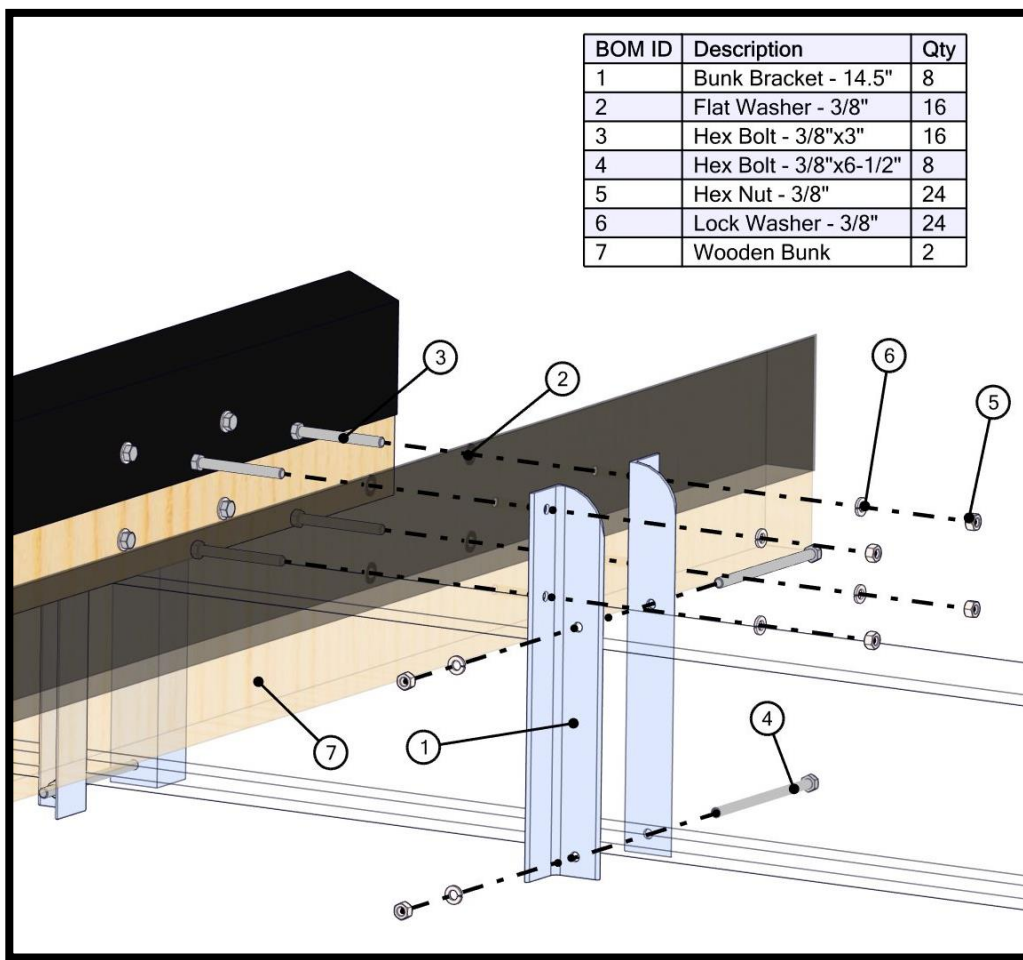


## STEP 14: ATTACHMENT OF BUNKS TO THE BUNK BRACKETS

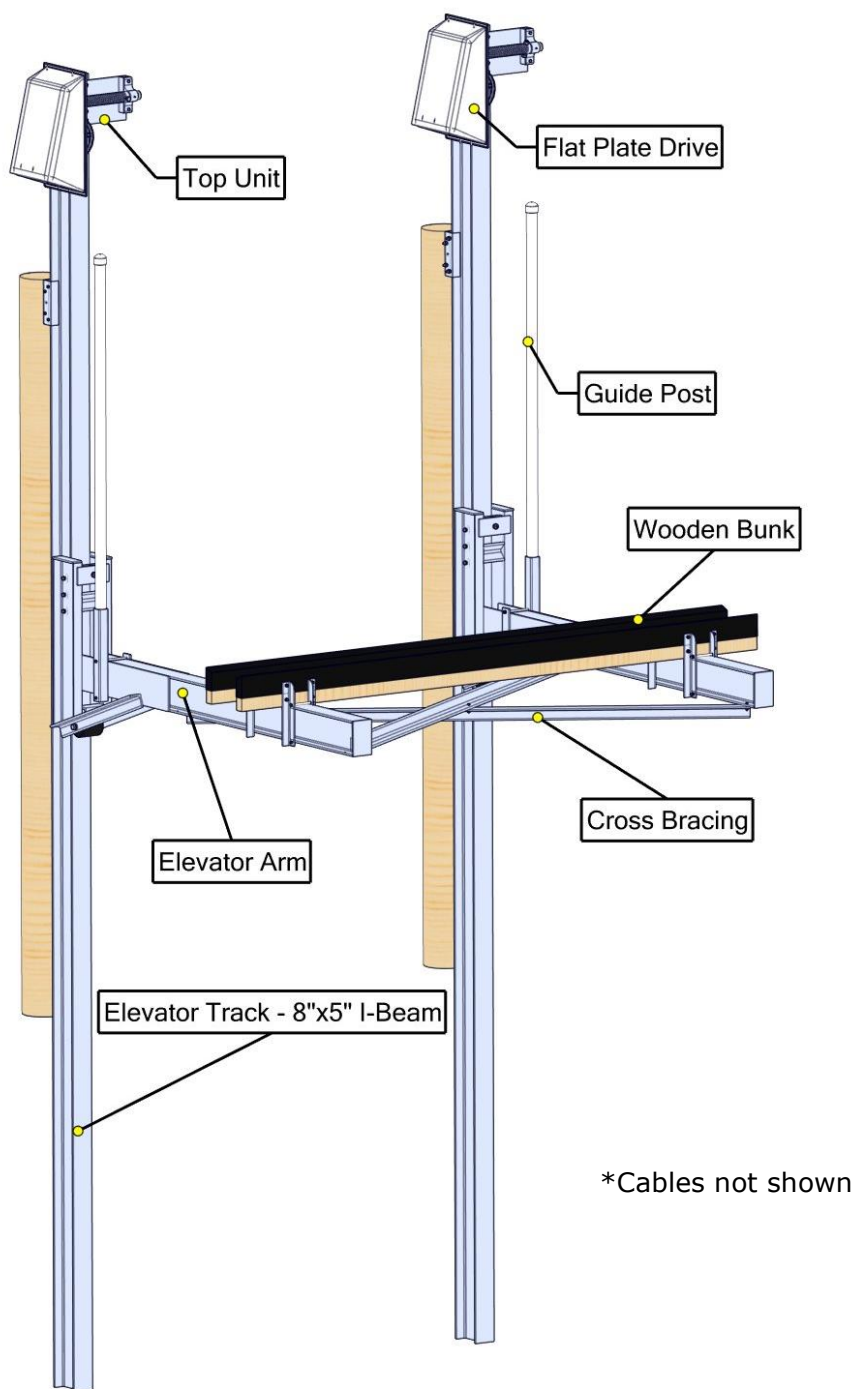


1. Confirm that the cradle arms are level and square.
2. Place the bunks on the inside of the bunk brackets.
3. With the cradles square, measure out the distance between the cradle arms and center the bunks between them. The bunks should overhang equally on each side of the cradle.
4. Confirm again that the cradle arms are level and square.
5. Mark the bunk bracket hole location on the bunks.
6. Drill eight, 3/8" holes (four holes on each end of the bunk) where the bunks will be mounted to the bunk brackets.
7. Install the bunks with the provided hardware. Tighten all hardware.

### Bunk Components



## Complete Installation:



**FITTING BOAT TO LIFT:**

1. Bunk Adjustment: loosen the eight bunk brackets. 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. Place boat into position for lifting. Guide poles will keep boat centered over bunks. It is very rare to have more than three feet of boat hanging beyond the stern lift pilings. The center boat balance needs to be as close as possible to center of lift (Bow to Stern). this will evenly distribute the load over the two cradle beams. **The Bow and Stern Cable Tension will be equal with a balanced load.**
3. Lifting of the Boat Adjustment: Start lifting the boat, if the boat starts leaning as you pick it up you will have to readjust the pickup bunks and lift the boat again. If the boat does not lean, 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.
4. Confirm the pickup bunks are not resting against any thru-hull accessories; water, intakes or transducers, etc.
5. Confirm that the cradle beams and boat is level.

**HELPFUL NOTES:**

1. To reverse 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 cradle arms 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 through our email: [sean@boatliftistributors.com](mailto:sean@boatliftistributors.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.

Thank you,

Boat Lift Distributors