

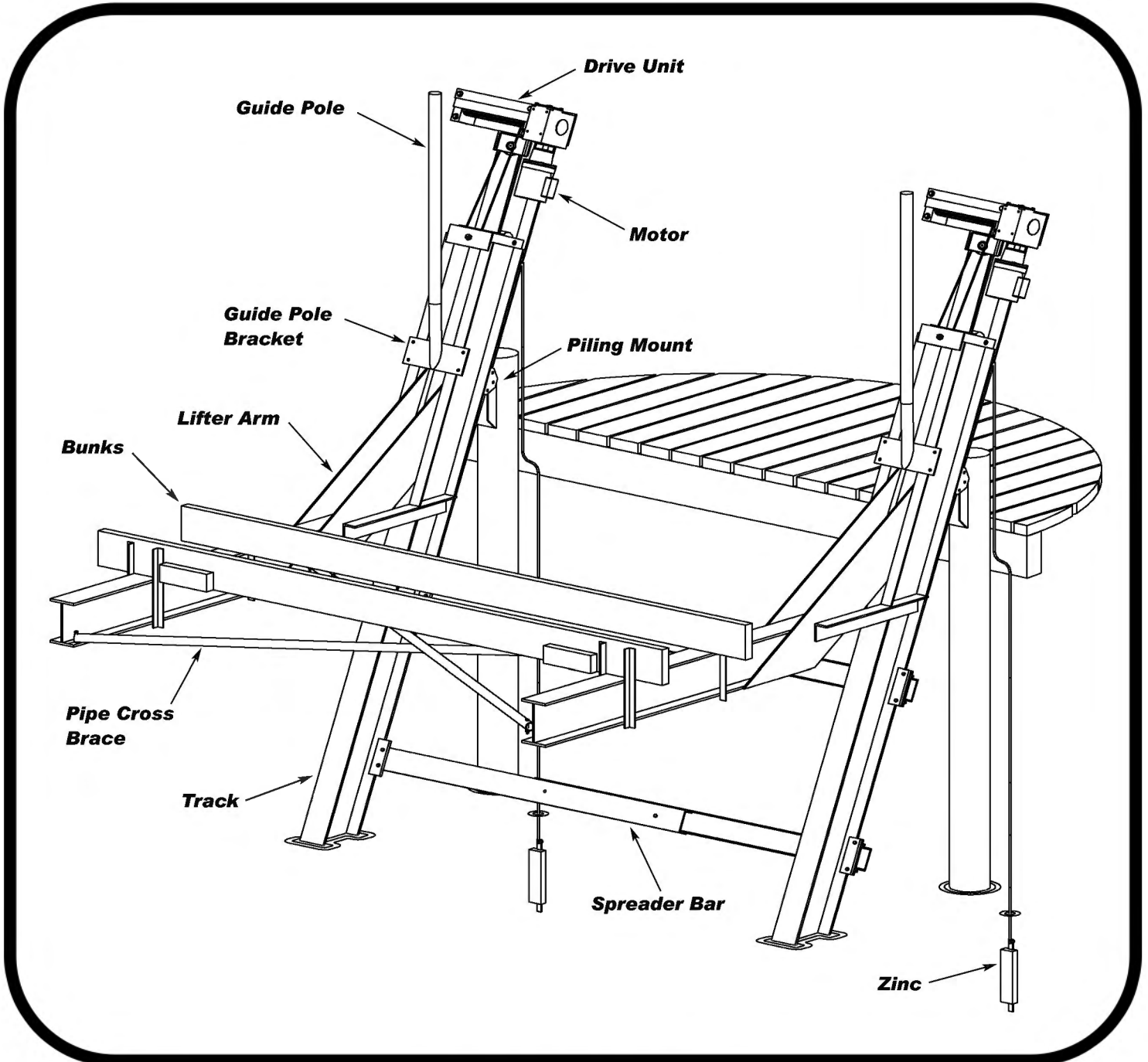


# ALUMINUM ELEVATOR

## Installation Manual

6,000 lb. - 25,000 lb.

Revised 3-23-16



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# INTRODUCTION

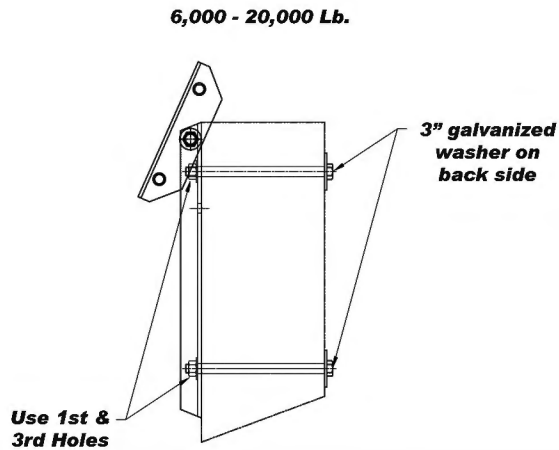
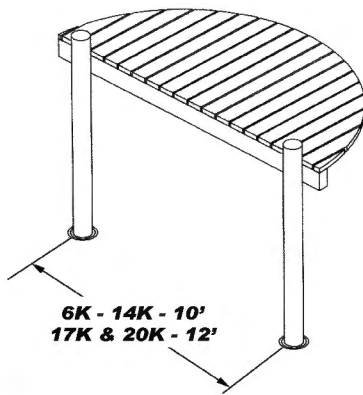
**At Hi-Tide Sales, we take pride in bringing the most advanced, easy to use, minimum maintenance boat lift system to the market today. The installation of this lift is simplified by its lightweight design and simple operation. In the pages that follow, we will take you step-by-step through the entire installation sequence, including the lifting of the boat. We urge you to read this manual before attempting an installation.**

## Before you begin...

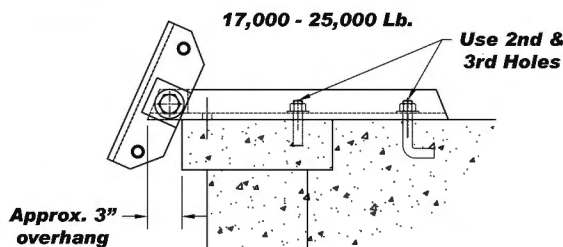
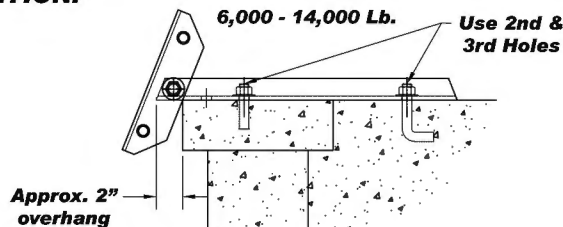
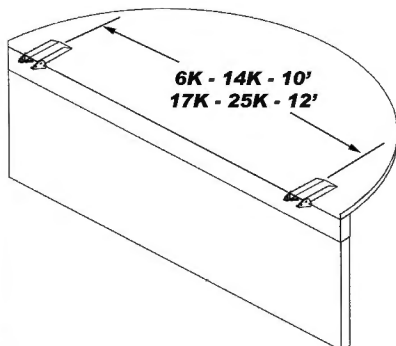
**The Aluminum Elevator can be mounted to wood pilings, concrete pilings, concrete dock or seawall. The pilings or seawall are the foundation of the boat lift and must be able to carry the load of the lift and the boat to be lifted. It is the contractor's responsibility to determine and construct suitable support fixtures and bracing for the lift pilings and/or seawall mounts as Local or National Code and common practice varies from area to area. Consult the Aluminum Elevator sales literature or call Hi-Tide for any appropriate diagrams.**

## Step 1: Attaching Mounts

- A. Piling Mount - Pilings should be cut approx 1' above dock or highest point of travel of cradle. The Aluminum Elevator cannot be mounted to a free standing as pile will collapse. Thru-bolt mounts as shown with a minimum of (2) 3/4" dia. bolts per mount.**



- B. Concrete Seawall Mount - Install concrete Red Head 3/4" x 3" anchors (not supplied) into seawall cap. Pour concrete (see chart) in hole behind cap with 3/4" x 6" J-Bolts (not supplied) in concrete. Use nut and washer on each side of mounting bracket. DO NOT LOAD LIFT FOR TWO DAYS AFTER COMPLETION.**

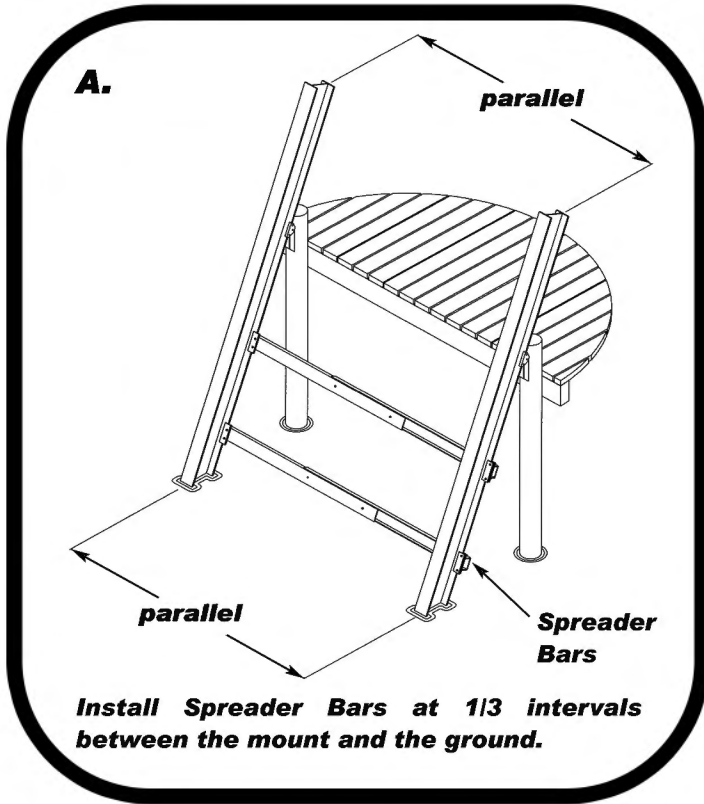


### MINIMUM CONCRETE PER TRACK

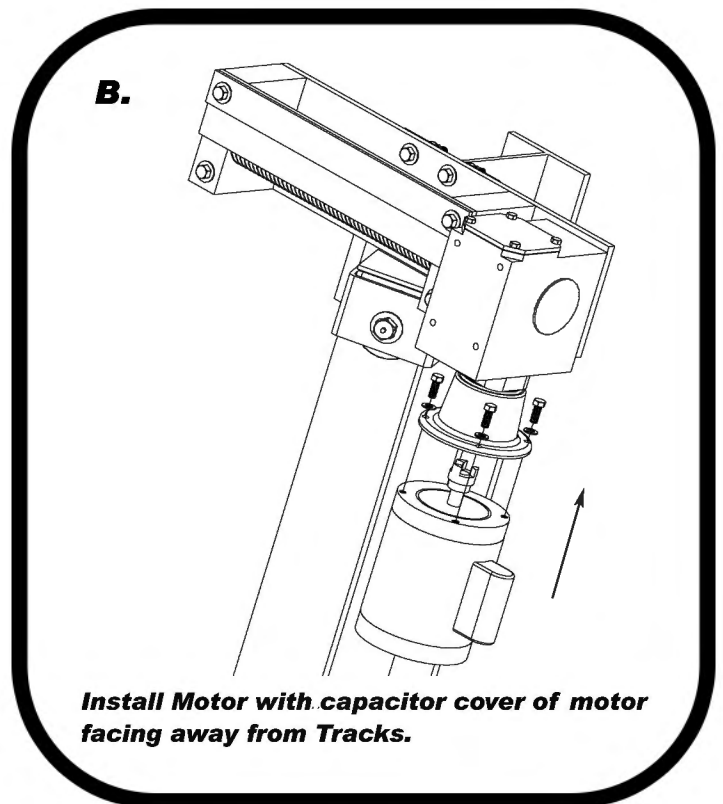
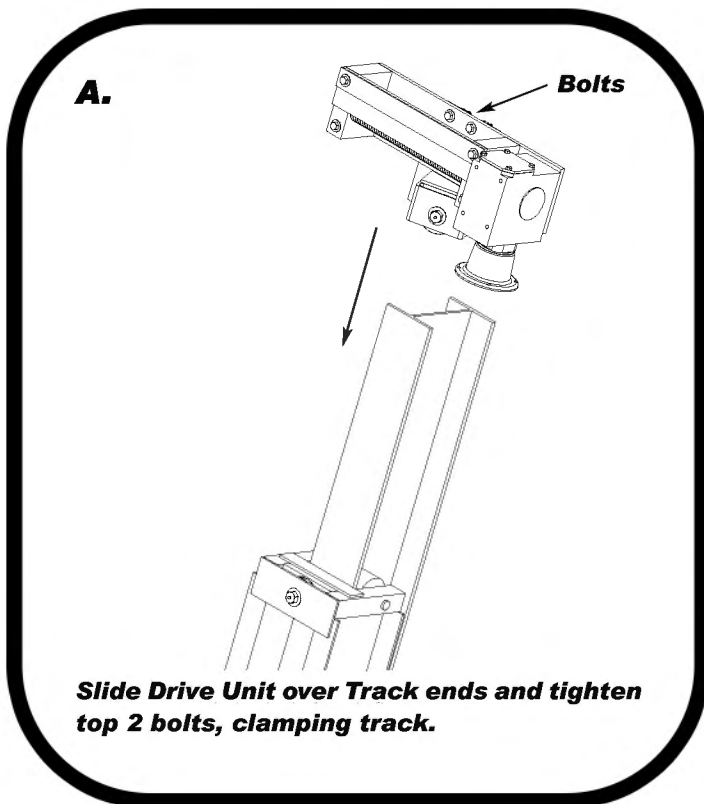
6,000 lb.....2 yards  
10,000 lb.....3 yards  
14,000 lb.....4 yards  
17,000 lb.....5 yards  
20,000 lb.....6 yards  
25,000 lb.....7 yards

## Step 2: Install Tracks and Lifters

Slide Track thru mount. Using the 24 degree mark on the mount and using the supplied Angle Finder, hammer tracks into ground to desired penetration. It is up to the installing contractor to determine if the track is installed correctly and securely. Be certain tracks are parallel and then tighten all bolts.



## Step 3: Install Drive Units and Motors



## Step 4: Wiring the Lift

Follow wiring instructions affixed to motors and/or remote control if applicable. Attach wire to dock with supplied wire ties and screws.

### Boat Lift Electrical Requirements

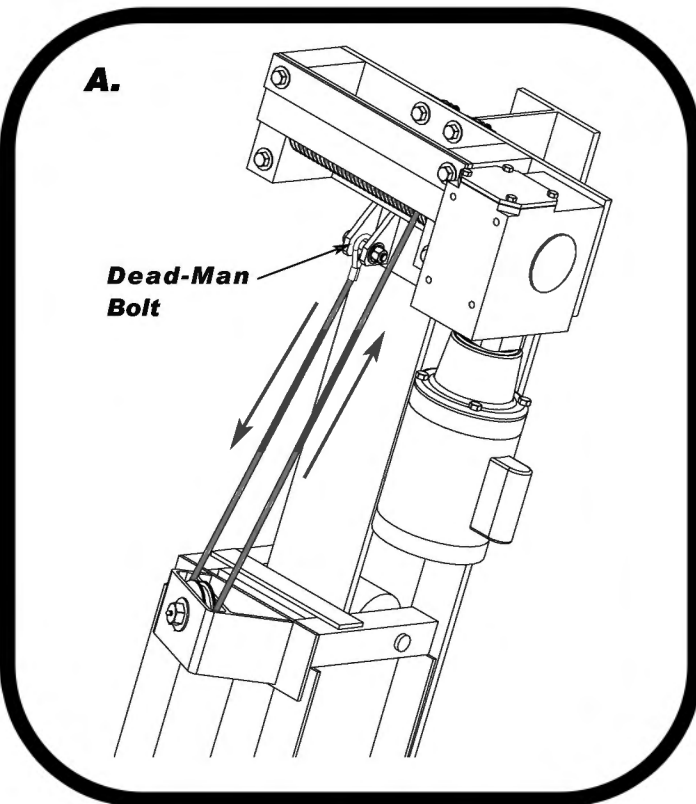
Having the proper electrical service to your boat lift is critical to the satisfactory operation of the lift. As a minimum, the following copper wire sizes must be observed to preclude possible voltage drop and damage to electrical components

Motor H.P.	100 Feet		200 Feet		300 Feet		400 Feet	
	110V	240V	110V	240V	110V	240V	110V	240V
(2) 3/4	#8	#10	#6	#10	#6	#10	#4	#10
(2) 1	-	#10	-	#10	-	#10	-	#8
(2) 1-1/2 or 2	-	#8	-	#6	-	#4	-	#2

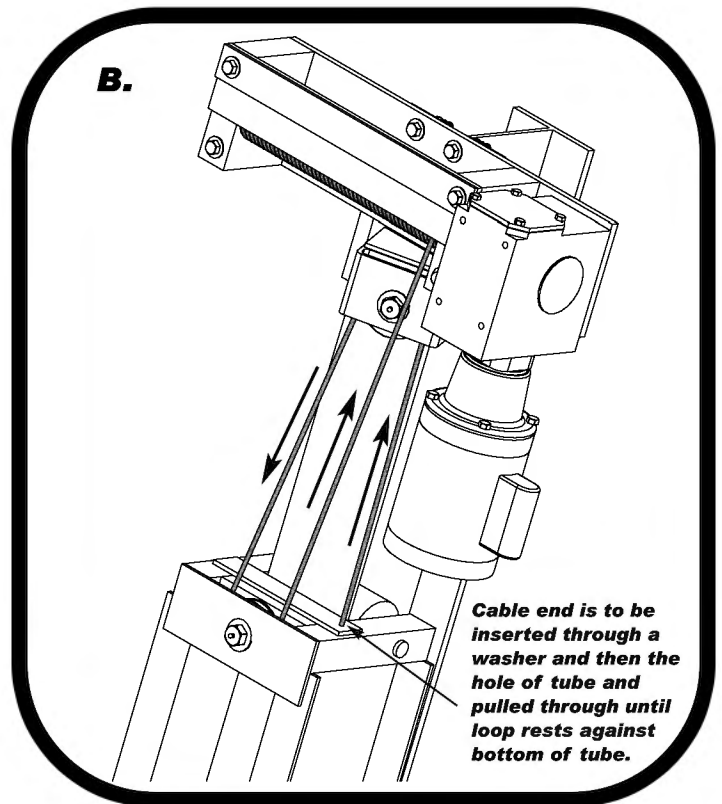
### Important Notes:

- When at all possible, electrical services should be dedicated to the boat lift only to avoid interfere by other electrical appliances. **DO NOT USE EXTENSION CORDS.**
- Please do not change or ignore wiring diagrams, or instructions as shown. There may be other ways to make it work, but or way is the only way approved by us (the Manufacturer).
- All lifts with (2) 1 HP motors or larger must be wired for 240V only for proper operation.
- The wiring suggestions and wiring diagrams referred to are meant to supersede any national or local codes. Electrical work is recommended to be performed by a licensed electrical contractor.
- Hi-Tide recommends installation of a Complete Disconnect Plug to prolong the life of the tracks.

## Step 5: Rounting Cables



6,000 Lb. Only

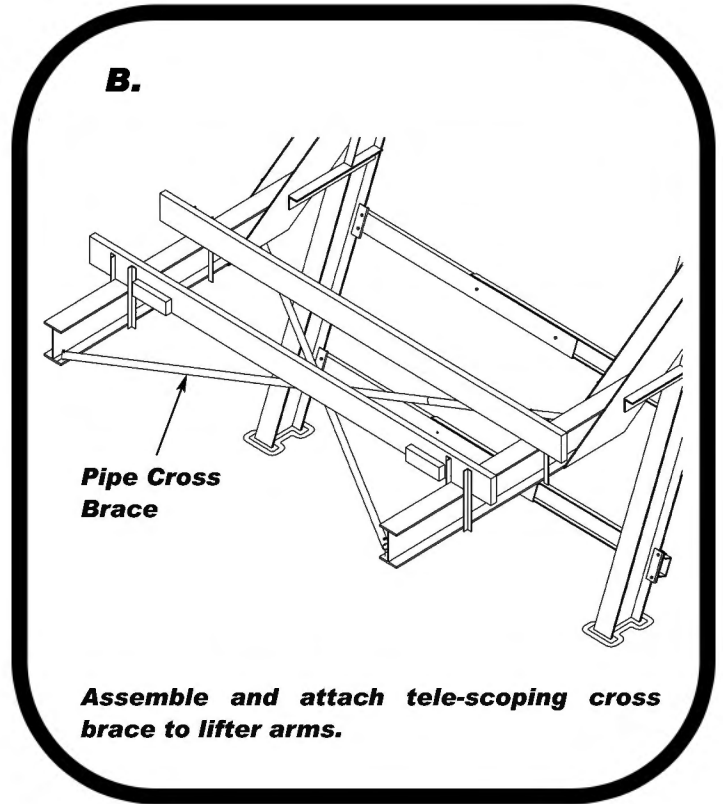
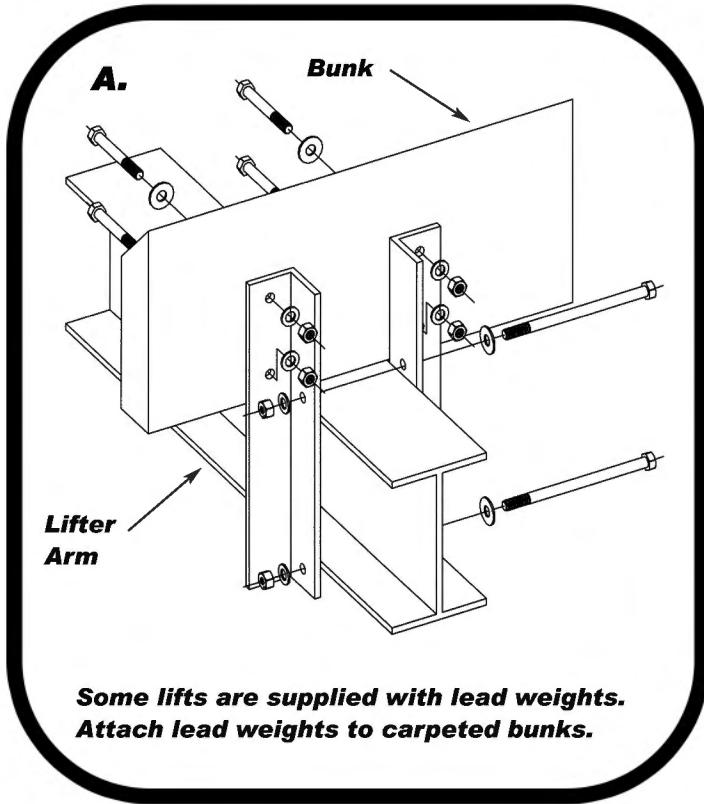


10,000 - 17,000 Lb.

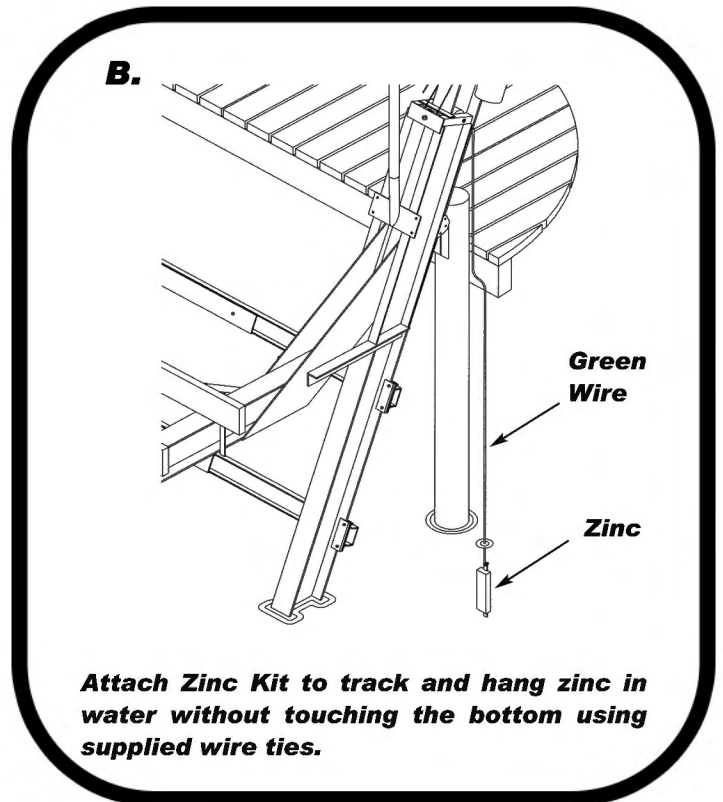
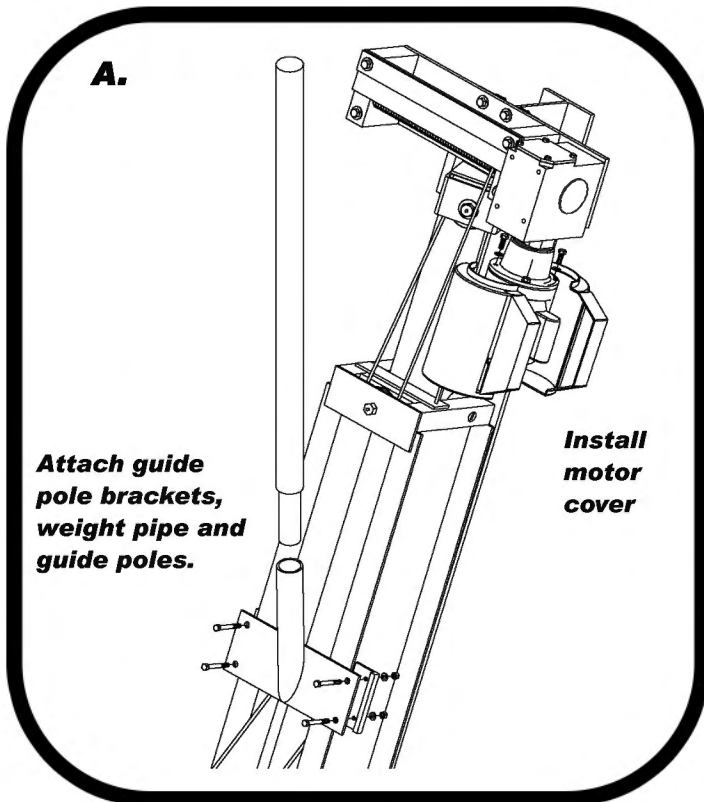
Route cable as shown above. Cable end is inserted into hole in winder drum. Tighten bolt in winder to clamp cable. Turn on lift with switches in the "up" direction. With correct wiring, cables should descend off the winder toward the boat and wind toward the drive unit in the "up" direction. If necessary, follow wiring diagrams on side of motor to reverse direction of motor.

## Step 6: Constructing the Lift Cradle

Wind cables to raise arms above water and allow lifter arms to hang freely and level with each other. Double check with level to insure proper installation of bunks. Bunks should be centered on Lifter Arms, bow to stern. Contact Hi-Tide as necessary if custom bunking is to be used.

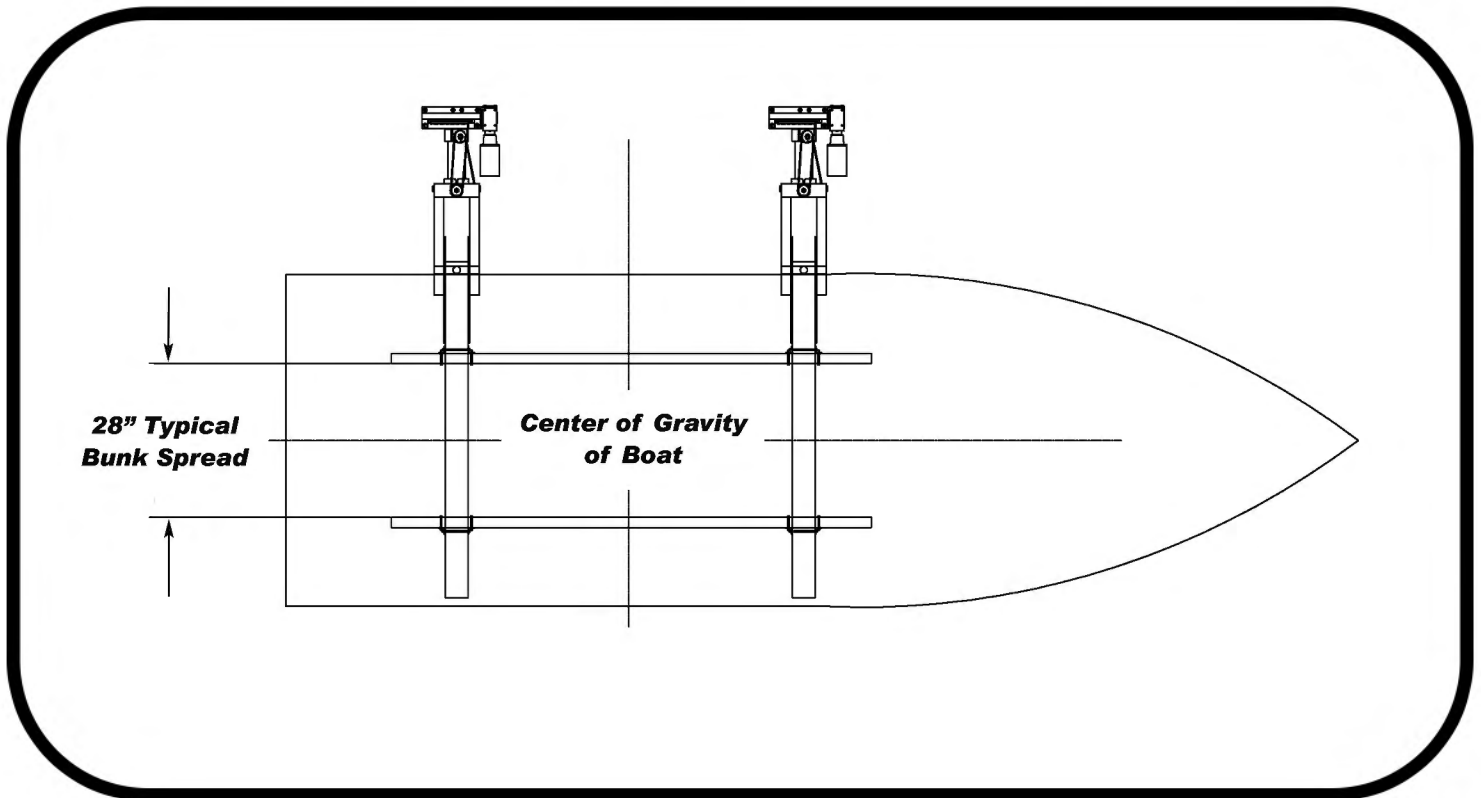


## Step 7: Completing the Installation



## **Boat Fitment**

**Take care to clear shafts, thru-hull fittings, chines, etc. Keel of Boat must not rest on lifter beam and should clear beam by at least one inch. Center of gravity of boat must be in center of lift (bow to stern). This will evenly distribute the load over the two lifter arms.**



### **Helpful Hints:**

- **A reference mark can be placed on a guide pole to indicate that the cradle is deep enough for the boat's hull to clear the cradle. This will assure clearance entering and leaving the cradle as the tide changes.**
- **For shallow water installations, a reference mark can be placed on a cable to indicate that the cradle has contacted bottom. Turning lift off at this point will prevent the cable winds from being tangled. If shallow water conditions exist, Hi-Tide strongly recommends the fitment of a limit switch.**

### **Important Notes to Installer:**

**It is the responsibility of the installer to insure that:**

- 1) The installation is completed according to the Manufacturer's recommendations.**
- 2) The ultimate user understands how to operate in a safe manner.**
- 3) The ultimate user acknowledges the need for regular service and maintenance of the lifting equipment by an authorized Hi-Tide dealer.**
- 4) The Customer is informed and understands all safety and warning labels affixed to the equipment.**
- 5) The center of gravity of boat is located by equal deflection of the aluminum tracks and/or equal tension on the lifting cables.**

**No Alterations or modifications may be made to the Hi-Tide equipment without expressed written consent of Hi-Tide Sales, Inc. Re-installation of the Hi-Tide equipment must be performed by an authorized Hi-Tide Agent/Dealer and must be performed to the standards set forth by Hi-Tide Sales, Inc. Transfer of any remaining warranty to a new location is solely at the discretion of Hi-Tide Sales, Inc. It is the obligation of the re-installer to inform any new operators of the above conditions. Maintenance/Owners Manuals and safety decals are available on request from Hi-Tide Sales, Inc.**