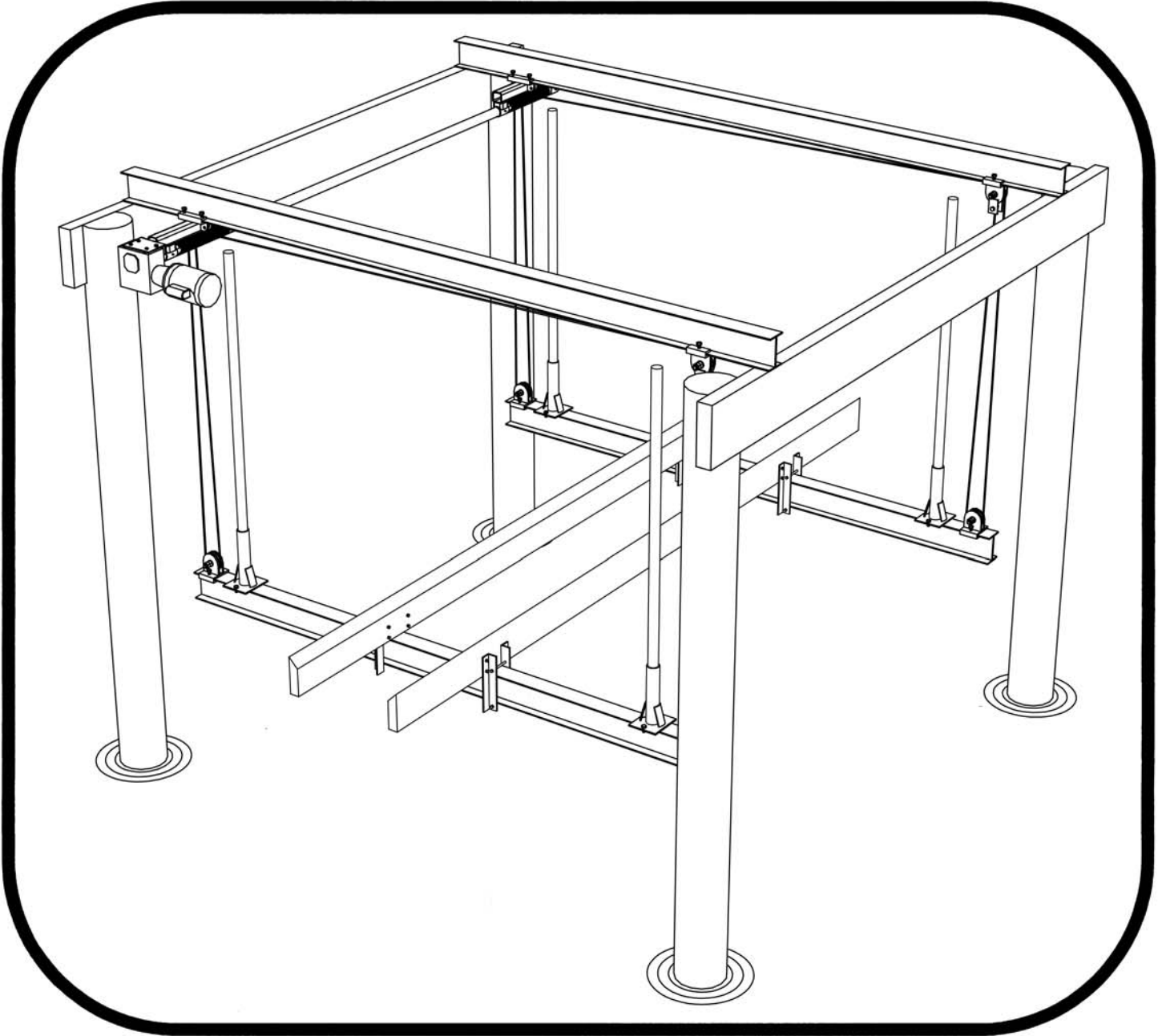




GEAR DRIVE BOAT HOUSE LIFT

Installation Manual



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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 Gear Drive Boat House Lift is intended to be mounted on top of wood stringers attached to pilings. The wood stringers and pilings are the foundation of the boat lift and must be able to carry the load of the lift and the boat to be lifted. Local or National code and common practice varies from area to area. Consult the Gear Drive Boat House Lift sales literature or call Hi-Tide as necessary.

Step 1: Setting Up Beams and Brackets

Arrange Beams and brackets as shown

Beams can be cut for better fitment in slip.

9'

Top Beam resting on stringers or in Top Beam Pockets, sold separately.

4,000 lb. - (2) Slide-On Pulley Brackets

8,000 lb. - (2) Slide-On Pulley Brackets w/ Deadman

Motor end of Winder Hanger

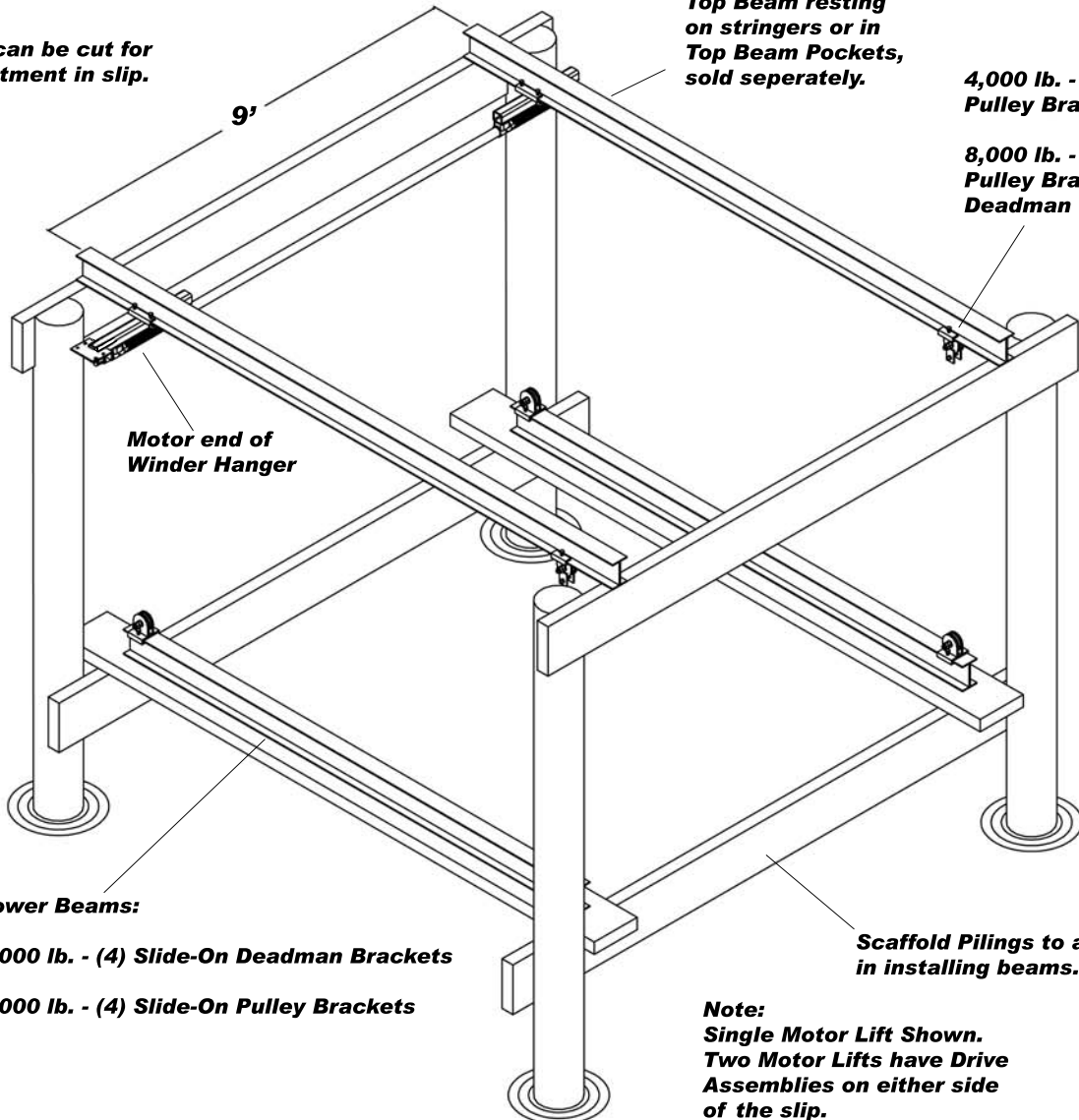
Lower Beams:

4,000 lb. - (4) Slide-On Deadman Brackets

8,000 lb. - (4) Slide-On Pulley Brackets

Scaffold Pilings to assist in installing beams.

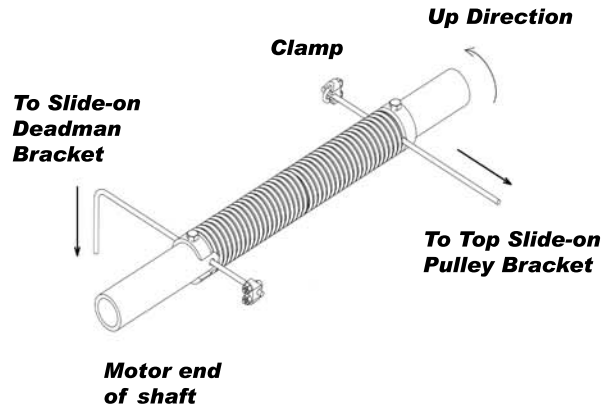
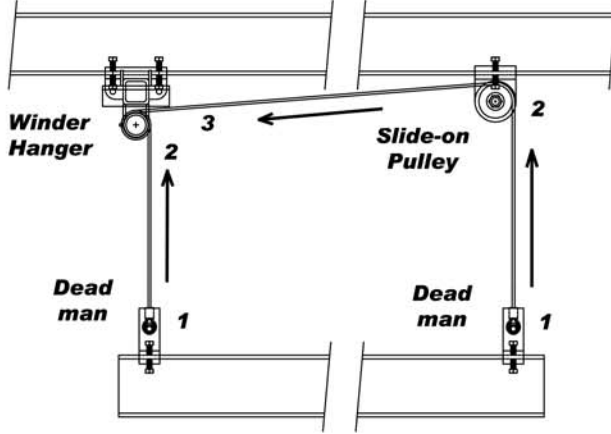
**Note:
Single Motor Lift Shown.
Two Motor Lifts have Drive Assemblies on either side of the slip.**



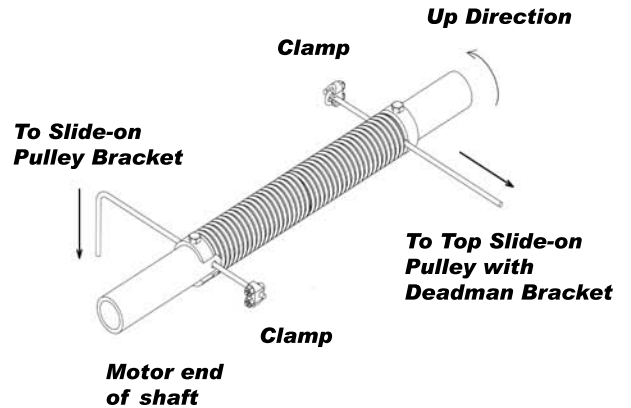
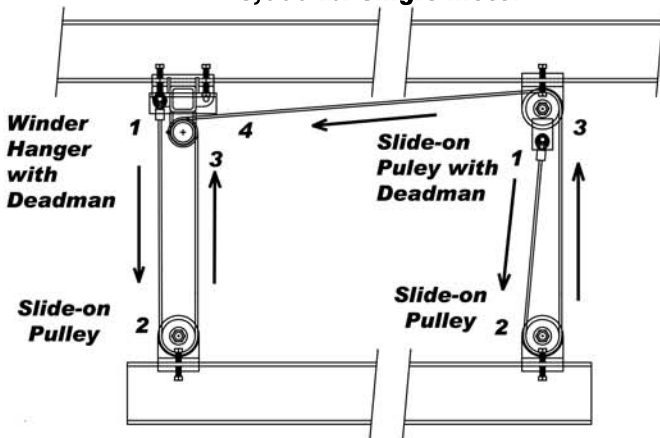
Step 2: Cable Routing and Hardware

Place Lifter Beams on scaffolding below winder areas as pictured in previous step. Install and route cables as shown below starting at the Deadman and working back to the winder.

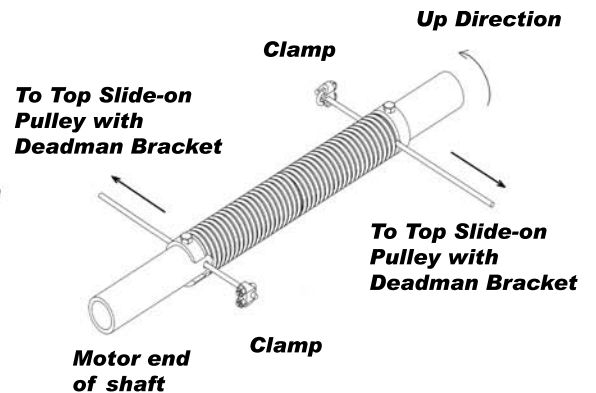
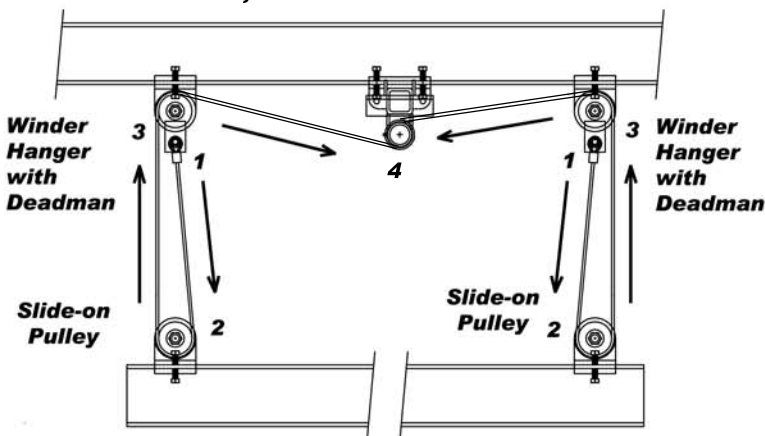
4,000 lb. Single Motor



8,000 lb. Single Motor



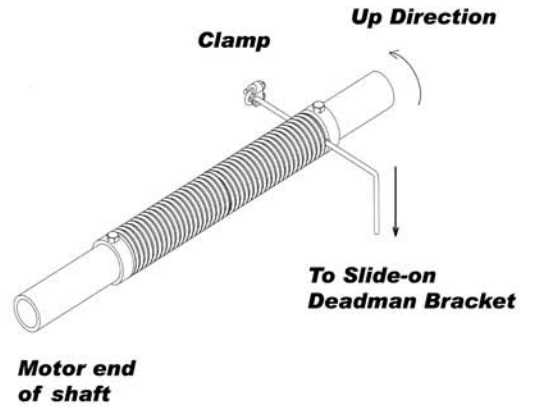
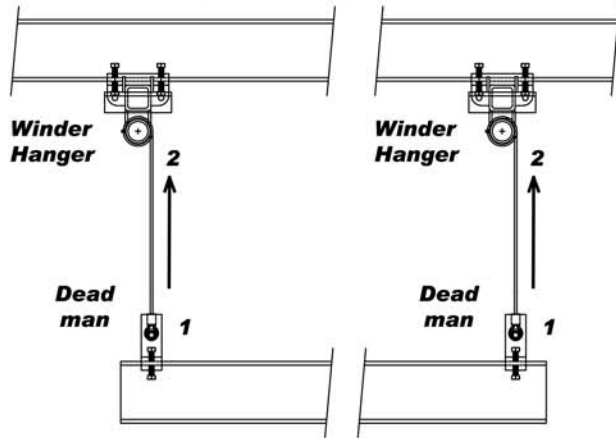
8,000 lb. Center Shaft



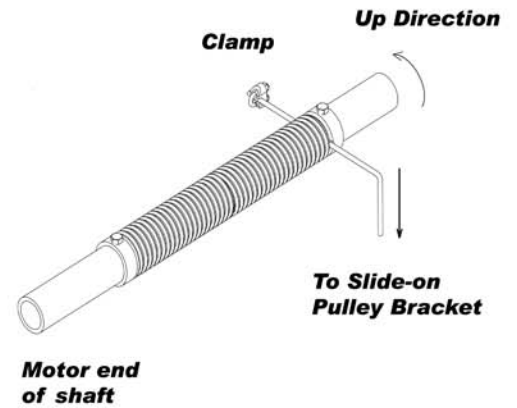
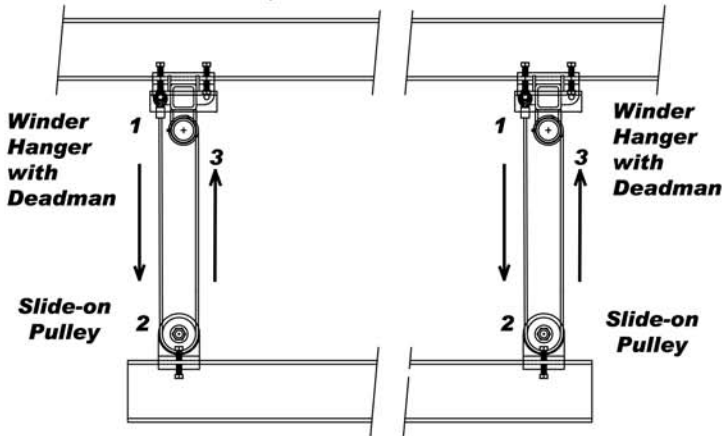
4,000 lb. Center Shaft rigging has the same deadman as the top of the page, but terminates as shown here.

Step 2: Cable Routing and Hardware

8,000 lb. Two Motor

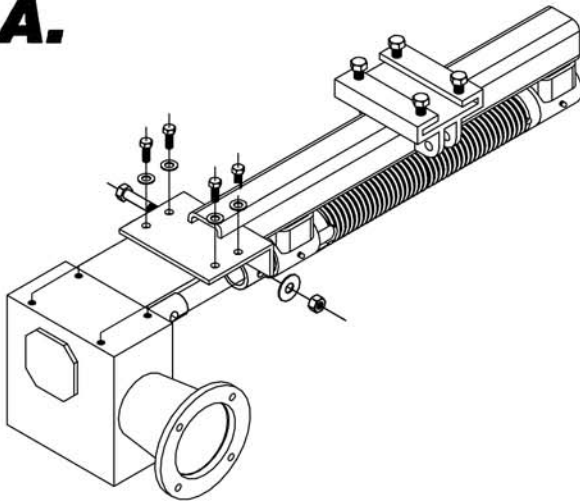


10,000 lb. Two Motor

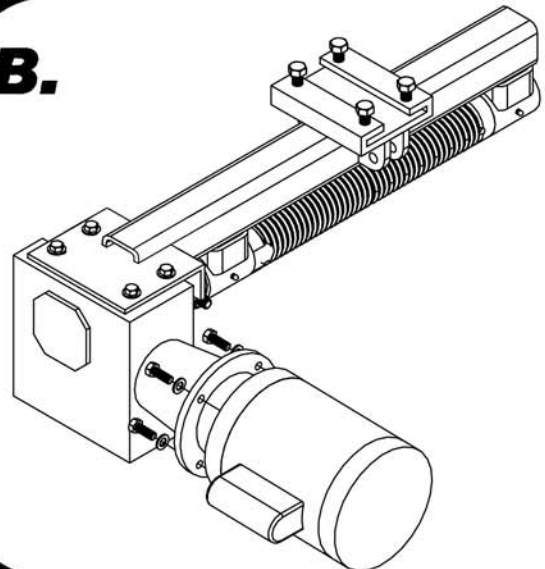


Step 3: Attaching Gearbox & Motor

A.



B.



Step 4: Wiring the Lift

Follow wiring instructions affixed to motors and/or remote controls if applicable. Cables should wind neatly on winders. If necessary, follow wiring diagrams on motor to reverse direction.

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	
	120V	240V	120V	240V	120V	240V	120V	240V
(1) 1 HP	#10	#14	#6	#12	#6	#10	#4	#8
(2) 1/2 HP	#10	#12	#8	#12	#6	#10	#4	#10
(2) 1 HP	--	#10	--	#8	--	#6	--	#2

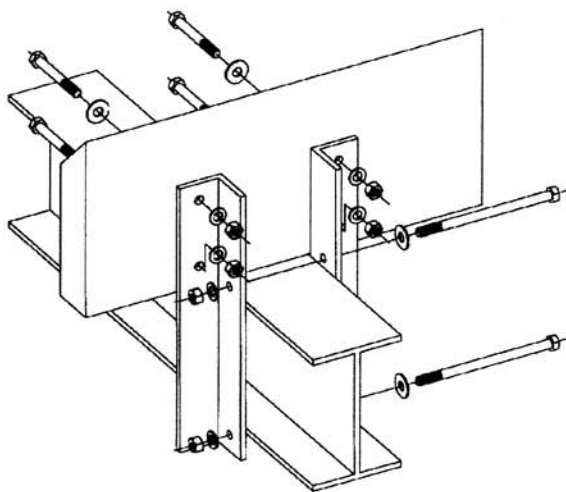
Important Notes:

- When at all possible, electrical services should be dedicated to the boat lift only to avoid interference by other electrical appliances.
- Please do not change or ignore wiring diagrams, or instructions as shown. There may be other ways to make it work, but our way is the only way approved by us (the Manufacturer).
- The wiring suggestions and wiring diagrams referred to are not meant to supersede any national or local codes.
- Hi-Tide recommends electrical work to be performed by a licensed electrical contractor.

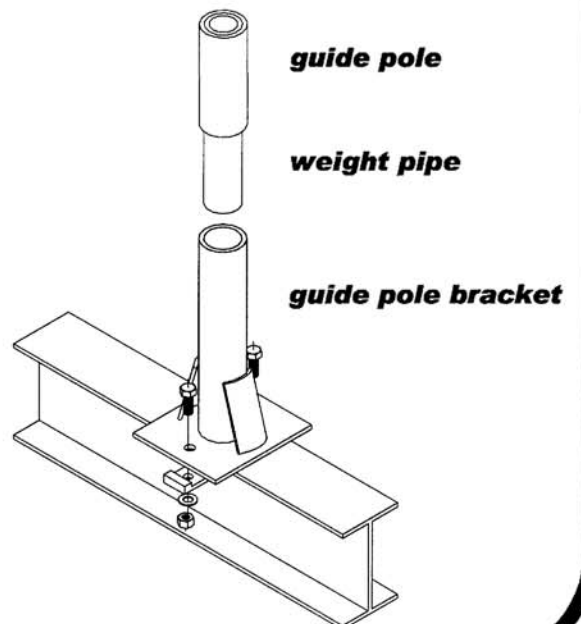
Step 5: Constructing the Lift Cradle

Wind cables and allow lifter beams to hang freely. Measure lifter beam center distance. This should also be equal to winder center distance.

A. Mount bunks to lifter beams in order to retain lifter beam center distances.

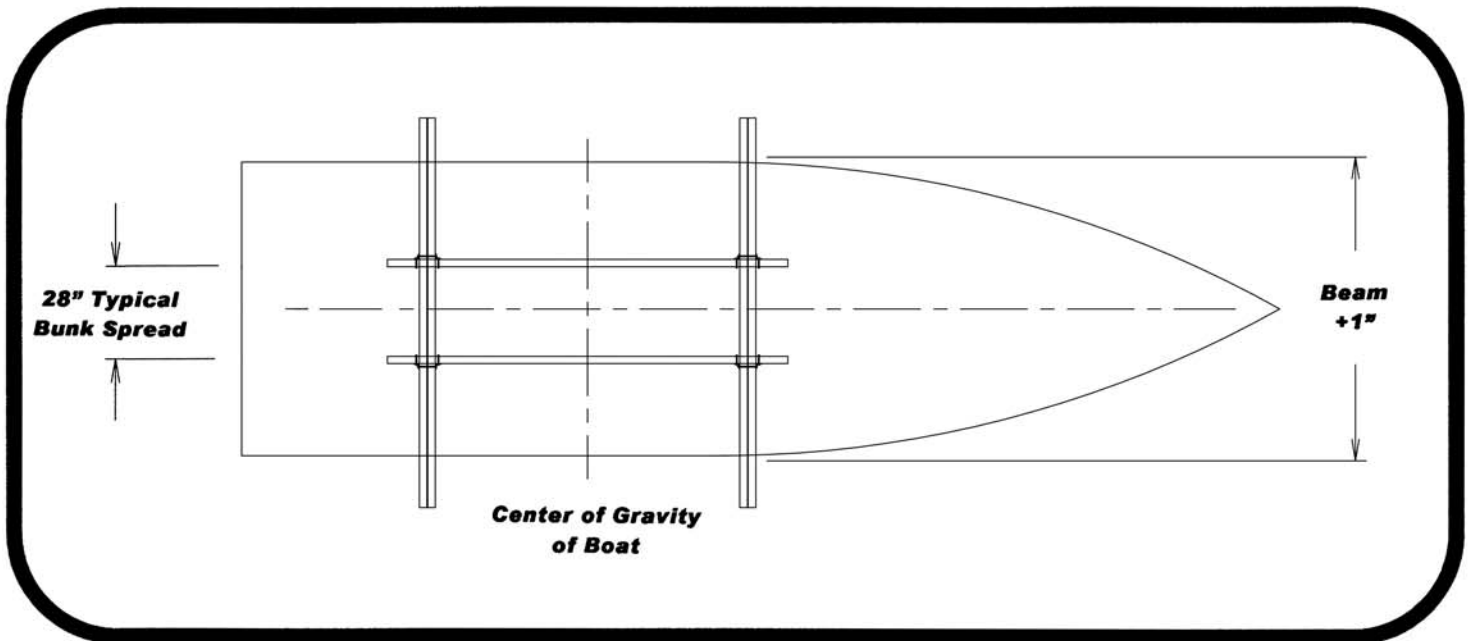


B. Attach guide pole brackets, weight pipe, and guide poles.



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 beams.



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 lifter beam.

No alterations or modifications may be made to Hi-Tide equipment without the expressed written consent of H-Tide Sales, Inc. Re-installation of Hi-Tide equipment must be preformed by an authorized Hi-Tide Agent/Dealer and must be preformed 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 Warning Decals are available on request from Hi-Tide Sales, Inc.