



Installation Manual

For

Alumavator and Platinum

Vertical 2 Piece Track

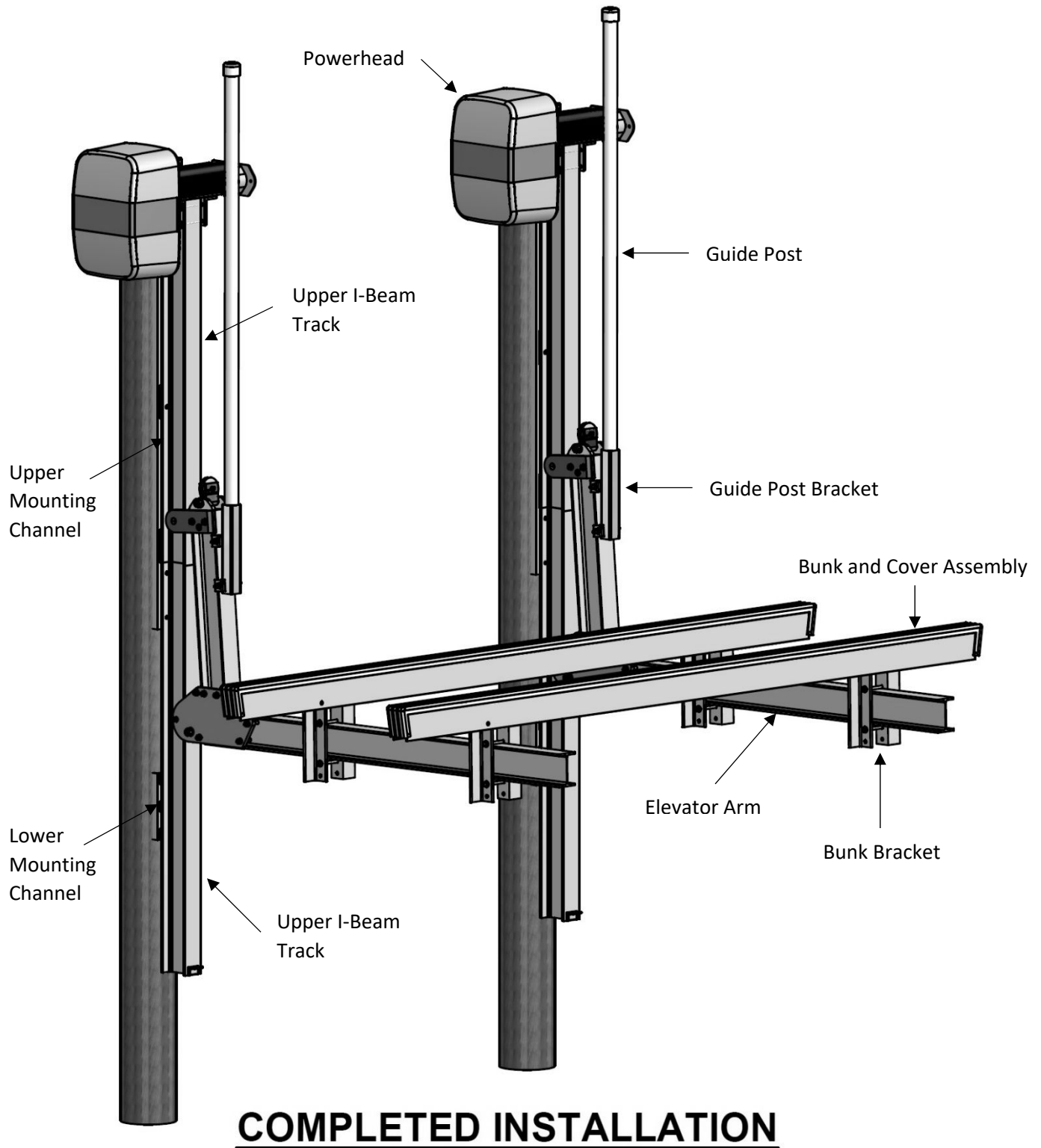
Elevator Boat Lifts



Safety Precautions



1. Your boat lift is a heavy duty piece of equipment. It is important that all persons that may operate this unit have read and understood the owner's manual. Given the inherent dangers of heavy machinery, your boat lift deserves respect, and good judgment is required in its operation. Before allowing others to operate the unit be certain that they understand the proper operating procedures. Do not allow children to operate the lift.
2. This product is for lifting unoccupied boats. Do not ride in your boat or on the lift during operation. Always attend the controls when operating the lift, and watch carefully to have others stand clear. Keep hands, feet, and clothing away from all moving parts.
3. Your lift is operated by electricity, therefore, additional care must be taken. It must be wired by a licensed electrician, and it must be installed with an approved ground fault interruption device. If you observe severed or damaged wiring, it must be repaired immediately by an electrician. When properly installed and maintained, electrical devices such as this lift are completely safe. However, any electrical device used in and around a water environment must be treated with great respect to prevent accidental electrocution. All electrical maintenance and service to this lift must be done by a licensed electrician.
4. While operating your lift, routinely look at all cables for fraying, damaged ends, or loose strands. A damaged cable must be replaced immediately. Make sure that all pulleys are turning properly. Routinely look over cables to make sure that they are winding properly. Look for signs of extreme wear and unusual corrosion, as well as, exposed or damaged electrical wires. If you find any of the above, have the problem repaired immediately.
5. Do not work on your boat or lift while the boat is hoisted. When working on your lift, keep your hands, feet, and clothing away from all moving parts. Exercise great care if chains or gearing are exposed. Never work underneath a raised lift, and do not walk or stand on a raised lift. Always disconnect electrical power when working on any part of the lift.
6. Be careful not to exceed the rated capacity of the lift. To determine the total weight of your equipment to be lifted, study the boat manufacturer's literature to determine its weight. Be sure to add enough extra weight to compensate for your added accessories, including water and fuel. Gasoline weighs about 6 lbs. per gallon and water weighs about 8 lbs. per gallon.
7. If you plan to leave your lifted boat unattended for several weeks, it is important that you remove the drain plug in the boat to prevent it from filling with rain water. Accumulated rain, snow or other water in your boat can rapidly become heavy enough to exceed the capacity of a lift, causing personal injury or damage to the boat and lift.



Elevator Lift Electrical Requirements

Having the proper electrical service to the boat lift is critical to the performance of the lift. Inadequate electrical service could result in damage to the motor and / or the lift controls. When at all possible, the boat lift should have dedicated electrical service to prevent circuit overloading and to minimize interference by other devices on the circuit. Consult the following chart as minimum guidelines for properly sized circuit breaker and wire size based on horsepower and number of motors.

Minimum Breaker and 75C Copper Wire Size (AWG) for Single-Phase A.C. Motors

# and Motor H.P.	Amps to run		Breaker Size		50 Feet		100 feet		200 feet		300 feet		400 feet	
	115V	230V	115V	230V	115V	230V	115V	230V	115V	230V	115V	230V	115V	230V
(2) 3/4 H.P.	23	12	30 A	15 A	#8	#14	#6	#12	#3	#8	#2	#6	#1	#6
(2) 1 H. P.	----	14	----	20 A	----	#14	----	#10	----	#8	----	#6	----	#4
(2) 1 1/2 H.P.	----	18	----	25 A	----	#12	----	#10	----	#6	----	#4	----	#4

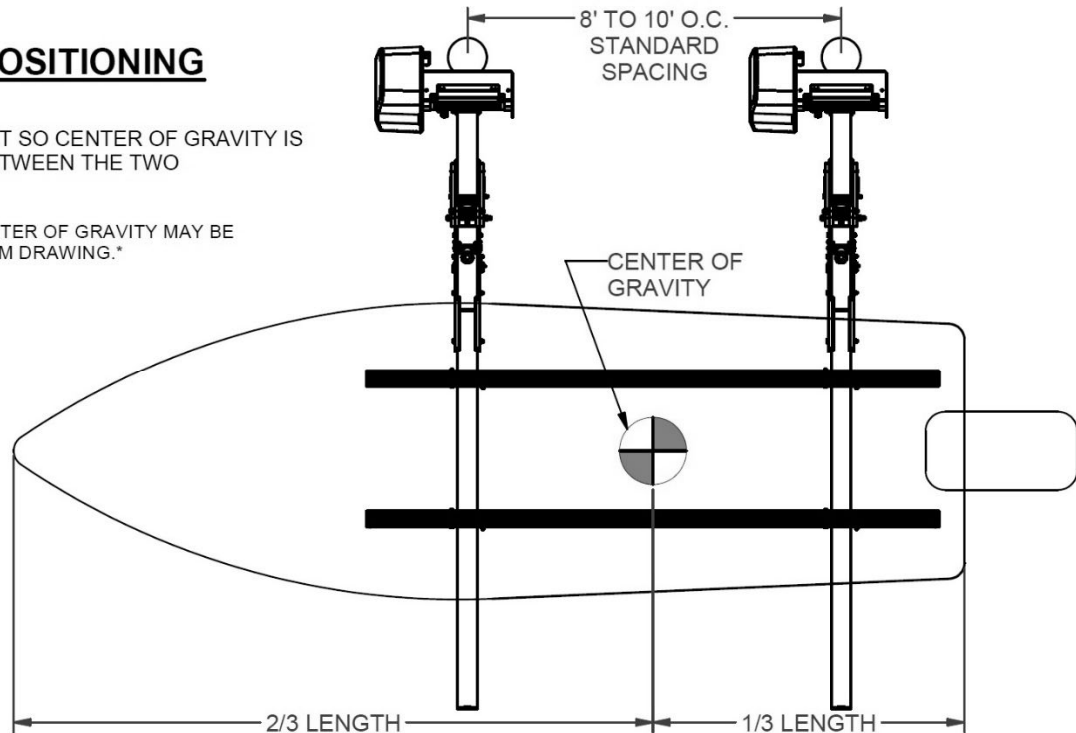
Important Notes:

- Please use current motor label to confirm specifications in above chart.
- For Aluminum wire, increase by 1 wire size, minimum.
- The appropriate instructions and wiring diagrams are enclosed in the control box.
- The wiring recommendations and diagrams referred to are not meant to supersede any national or local codes.
- Read all instructions and wiring diagrams before connecting or changing wires.
- Imm Quality Boat Lifts recommends that all electrical work be performed by a licensed electrical contractor.
- Wiring procedures other than those presented by Imm Quality Boat Lifts will void the product warranty.
- **A FOUR POLE DISCONNECT OR EQUIVALENT CONTROL BOX MUST BE INSTALLED.** An electrochemical reaction known as electrolysis can cause premature degradation of metal components including but not limited to I-beam tracks and carriage. The lifts electrical supply (including ground and neutral legs) should be mechanically disconnected from the power source when not in use.
- **WIRED ZINCS MUST BE CONNECTED TO THE LIFT AND ALWAYS BE SUSPENDED UNDERWATER.** We recommend wrapping the wire of the zinc around a mounting bolt (between washer and mounting surface) on the telescopic track mount on each track. Two zincs are provided with the lift. Zincs must be checked periodically and replaced as necessary.

BOAT POSITIONING

POSITION BOAT SO CENTER OF GRAVITY IS CENTERED BETWEEN THE TWO CARRIAGES.

NOTE: THE CENTER OF GRAVITY MAY BE DIFFERENT FROM DRAWING.

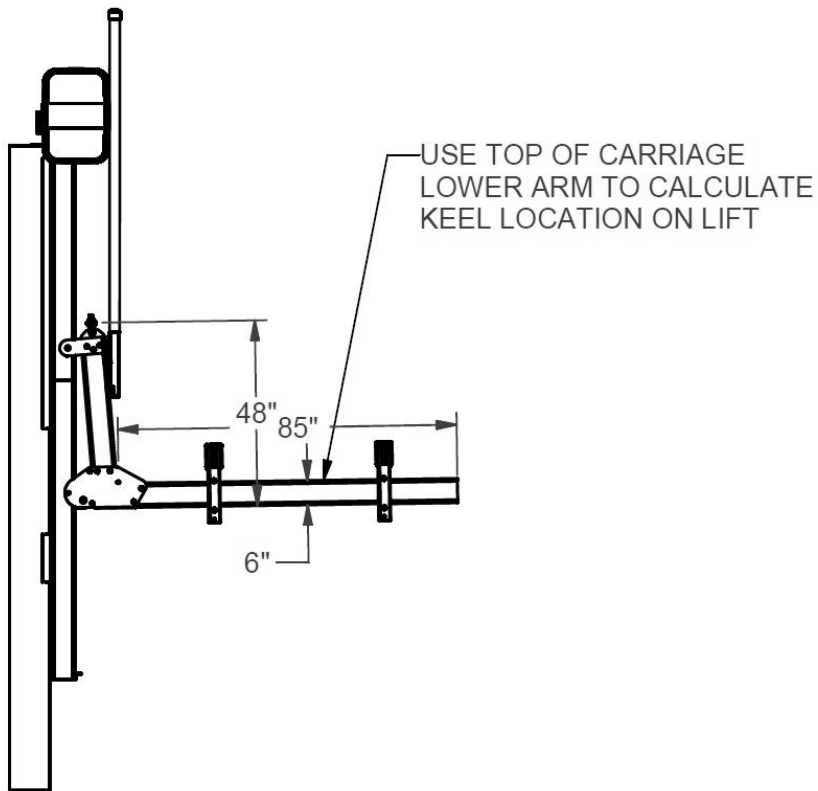


General Installation Notes:

Standard piling spacing ranges from 8' to 10' depending on boat and local conditions. Consult the lift specification sheet to see our recommendation based on the capacity of the lift. Ultimately, it is the contractor's / installer's responsibility to determine and set the spacing and height of the piling. To get the keel of the boat to align with the deck height, the track must be at least 48" above the deck for the 4,500 pound capacity elevator lifts (measured vertically from deck to highest point of the track).

Standard travel is 7' on the 4,500 pound capacity 2 piece track elevator lifts. Standard track length is 12' for this lift. Note: Water depth and bottom conditions may require the use of longer tracks.

Track Install Considerations



Carriage Height:
48"

Powerhead Requires:
5" of track for mounting

Piling Mount:
Upper track weldment has a top plate to "rest" track on piling during installation.

Note: When using the top plate to properly position the upper track, the track will extend 8" above the top of the pile.

Lift Specifications

Distance From Pile to the End of the Carriage Arm: 105.25"

Carriage Arm Length: 85"

Max Beam of Boat: 108" (9')

Standard Lift Travel: 84" (7') for the 4,500 lb. 2 piece track

Max Raised Position: 8" from top of the track (measured from the top of the return sheave, to allow for powerhead)

Track Angle: Vertical

Standard Track Length: 12' (longer tracks available if necessary)

Track Installation

***** Please refer to figures on page 8 for installing the track mount assemblies. *****

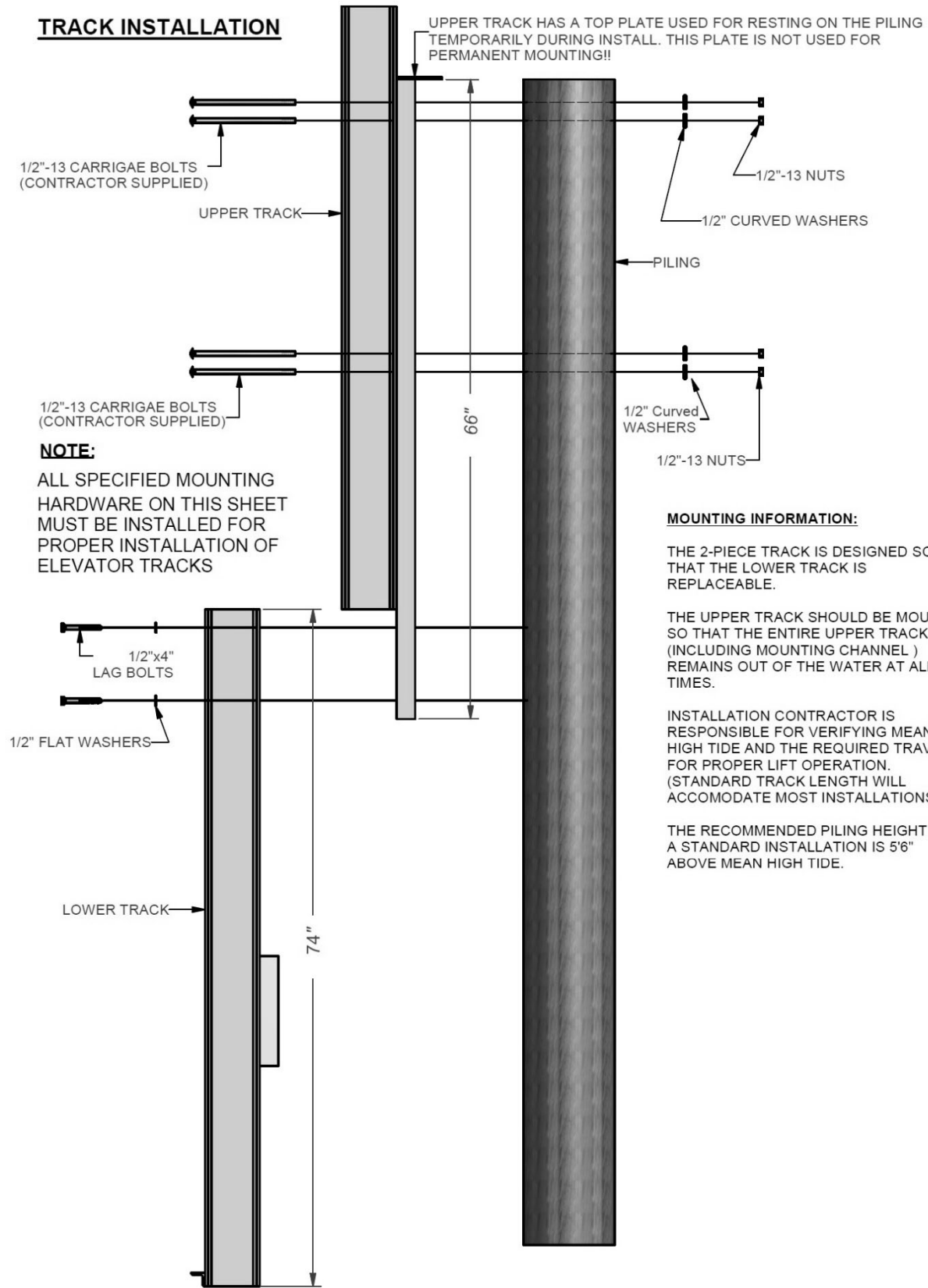
- Since the tracks are mounted directly to the pilings, the contractor must ensure that the pilings are both plumb and parallel.
- Once the height of the pilings has been determined and set, the tracks can be mounted. When initially shipped, the upper and lower track pieces are tack welded together for easier installation.
- Set the first track assembly on the piling so that the top plate is resting on the top of the piling. You can use a nail through the hole in the top plate to temporarily hold the track in place.
- Using a level and square, verify that the track is correctly orientated and mark the hole locations for the mounting bolts on the piling.
- Drill holes for thru bolts using a 5/8" diameter wood bit. Bolt track to piling using (4) 1/2" diameter stainless steel thru bolts. Using lag screws will void warranty. (Thru bolts and attaching hardware are contractor supplied.)
- Once track is bolted in place, drill holes using a 3/8" diameter bit for mounting the lower track with 1/2" x 4" stainless steel lag screws and washers. Holes should be approximately 4" deep. The lag screws are supplied with the lift.
- Next, repeat the above steps for the second track and mount assembly. Take special care to ensure that the second track is both plumb and parallel to the first track.

Installing Carriage Arms and Power Head

***** Please refer to figures on page 9 for installing carriage arms and power head. *****

- During installation of the carriage arms, the use of rigging straps, a crane or some other means to temporarily support the weight of the arm will be beneficial.
- Remove the upper wheel plate from one side of the carriage.
- Position carriage so that lower wheel rides on the flange face of the I-beam track that is closest to the slip area.
- Lean the carriage arm back so that the upper wheels engage and ride on the back side of the I-beam track flange.
- Re-install the upper wheel plate and tighten all hardware.
- Note: It may be easier to install the carriage onto the track by simply sliding it into place from the top of the track before the power head is installed.
- To install Power Head, simply slide the mount base over the top of the track and lower until it bottoms out. Tighten the four clamp bolts to secure.

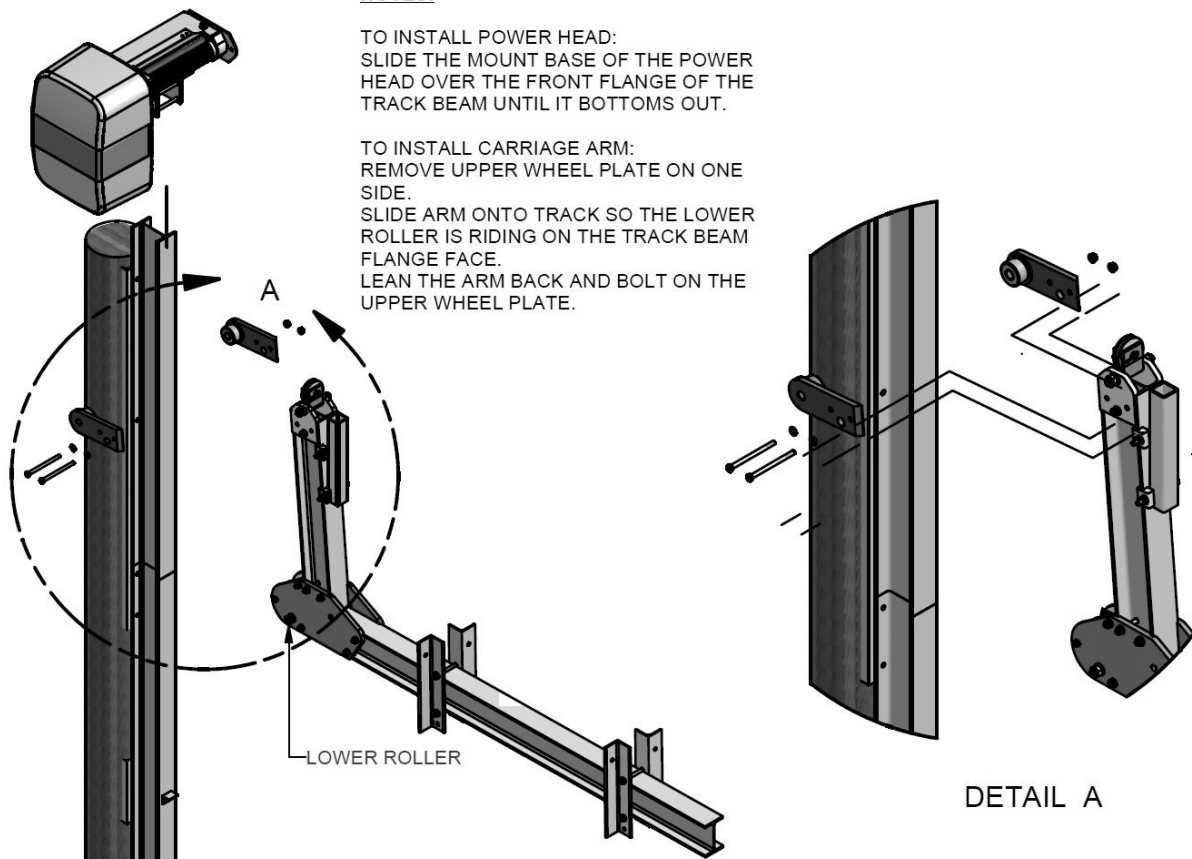
TRACK INSTALLATION



NOTES:

TO INSTALL POWER HEAD:
SLIDE THE MOUNT BASE OF THE POWER
HEAD OVER THE FRONT FLANGE OF THE
TRACK BEAM UNTIL IT BOTTOMS OUT.

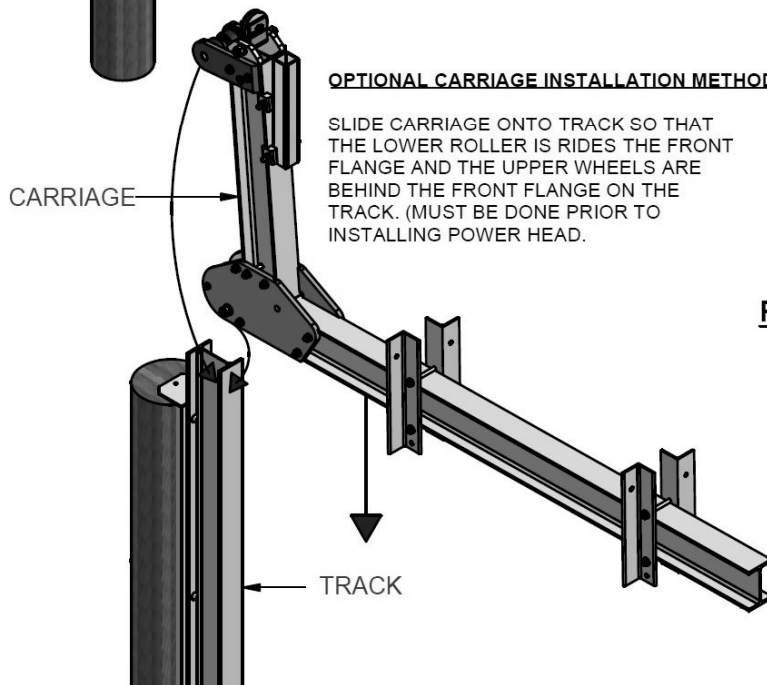
TO INSTALL CARRIAGE ARM:
REMOVE UPPER WHEEL PLATE ON ONE
SIDE.
SLIDE ARM ONTO TRACK SO THE LOWER
ROLLER IS RIDING ON THE TRACK BEAM
FLANGE FACE.
LEAN THE ARM BACK AND BOLT ON THE
UPPER WHEEL PLATE.



DETAIL A

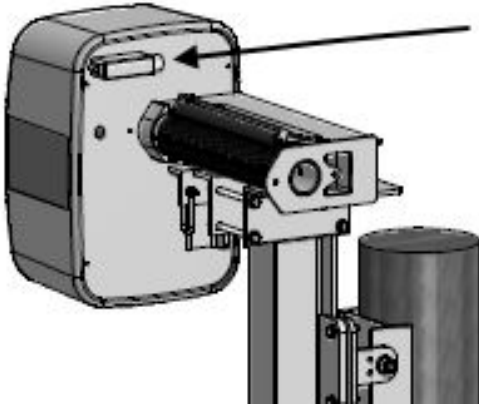
OPTIONAL CARRIAGE INSTALLATION METHOD

SLIDE CARRIAGE ONTO TRACK SO THAT
THE LOWER ROLLER IS RIDES THE FRONT
FLANGE AND THE UPPER WHEELS ARE
BEHIND THE FRONT FLANGE ON THE
TRACK. (MUST BE DONE PRIOR TO
INSTALLING POWER HEAD.

**POWER HEAD AND CARRIAGE
INSTALLATION**

Electrical: Motor Wiring for Elevator Lifts

The powerhead cover **does not** need to be removed to wire the motor to a control box. All motor wire leads have been routed to a conduit box located on the back plate of the powerhead enclosure. To connect to the Bonita, Gem or Tigershark control boxes, simply connect the motor wire leads to the appropriate wires in the control box according to the diagrams below.



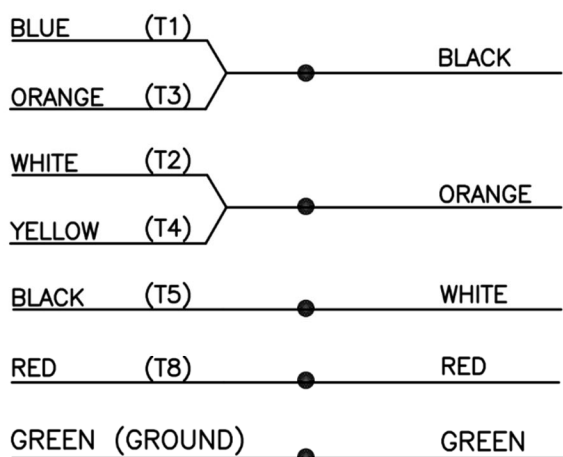
All motor wires are located inside this conduit box.

****Note:** Imm Quality Boat Lifts recommends that the electrical hookup be performed by a licensed electrician and conforms to all national and local electrical code. The appropriate wiring diagram and further instructions are enclosed by the OEM in the control box. Please read all instructions and wiring diagrams before connecting or changing any wires.**

115 V

MOTOR

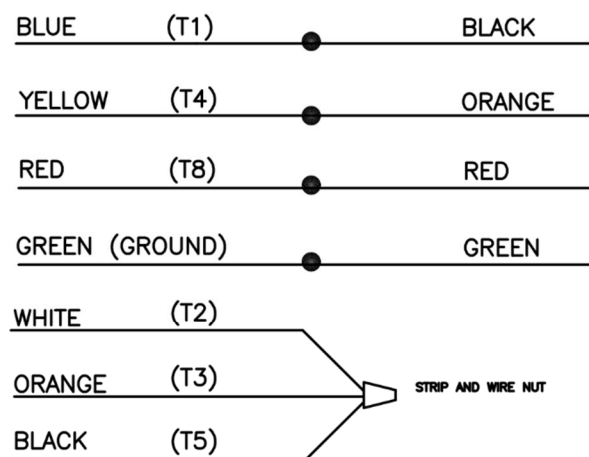
CONTROL



230 V

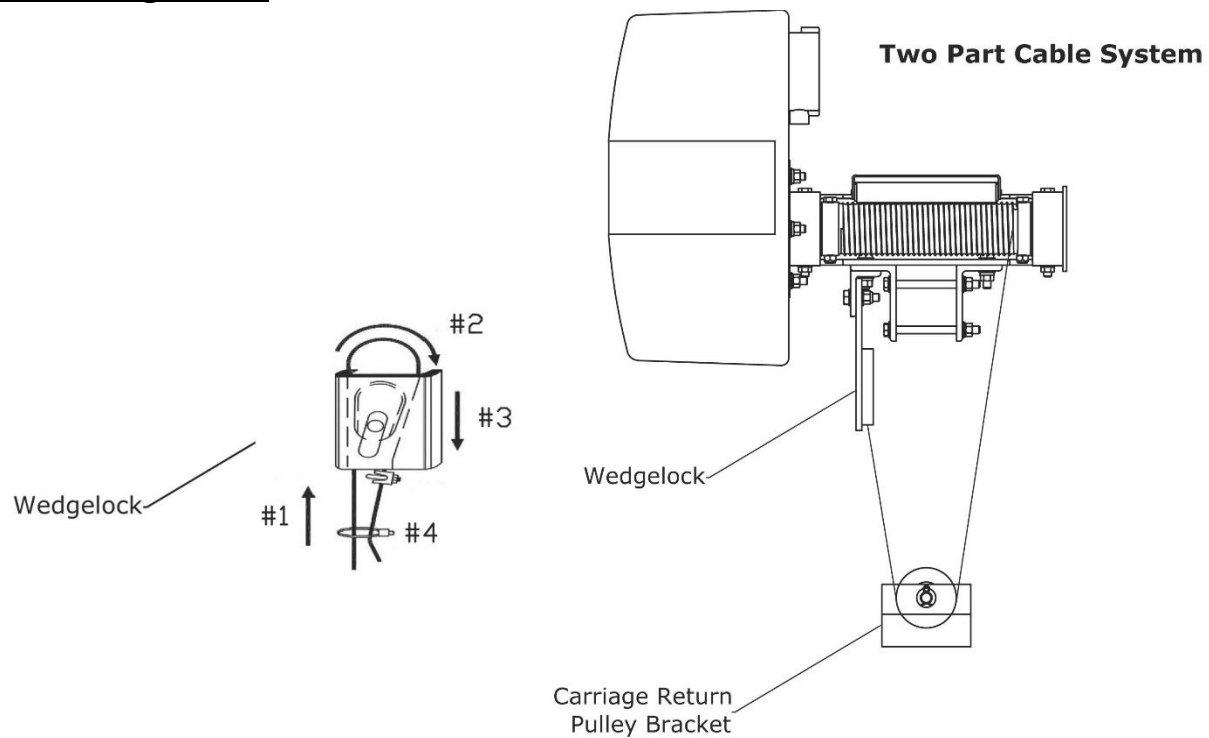
MOTOR

CONTROL



* TO REVERSE MOTOR DIRECTION FOR EITHER VOLTAGE INTERCHANGE BLACK (T5) AND RED (T8)

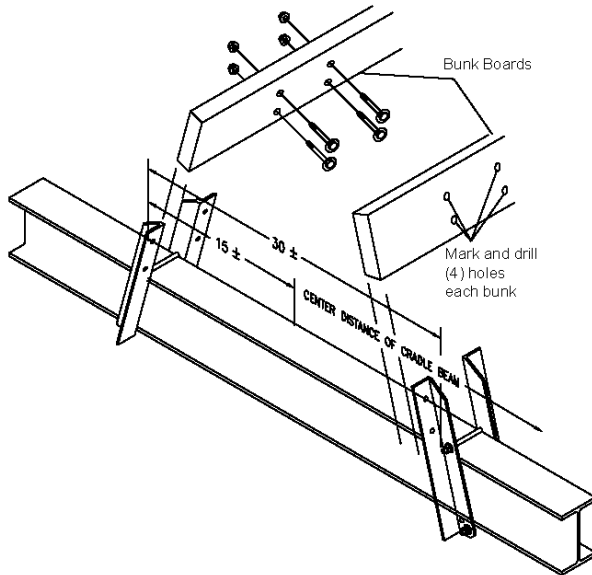
Installing Cable



The 4,500 pound capacity 2 piece track lifts have two part cable systems. To facilitate installation, the cable comes pre-wound on the winder. With winder full of cable, route the remaining cable as shown in the figure above.

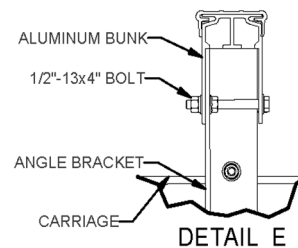
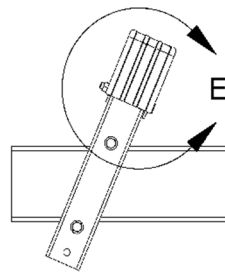
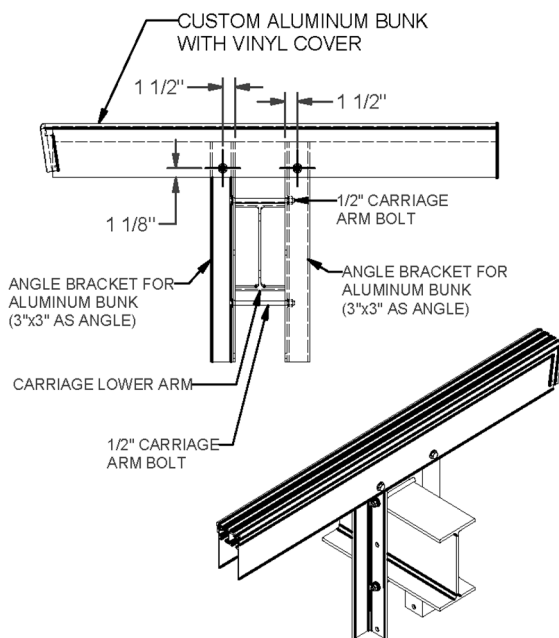
- 1) Route the cable into the carriage return pulley bracket and up to the wedge lock.
- 2) Feed the cable up and through the lock (#1), loop around the wedge (#2) and pull the cable down through the lock (#3). Leave about 12" of free cable tail.
- 3) Repeat steps 1 and 2 for the second power head
- 4) Level both carriage arms by adjusting cable length using wedge lock. Adjustments are made by loosening the wedge and pushing or pulling the cable through.
- 5) Set the maximum desired upper height of the carriage arms by adjusting the cable length using wedge lock. Carriage arms are often made level with the deck.
- 6) Fasten clamp to cable tail. DO NOT clamp tail and load cable together. Zip tie free cable tail to load able. Trim excess cable leaving a minimum of 6" of free cable.

Bunk Board and Guide Post Installation



WOODEN BUNKS

- The bunk brackets have been pre-installed on the carriage I-beams. The brackets may be repositioned by loosening the nuts at the bracket and sliding along the beam.
- Center the bunk boards on the carriage arms.
- Make sure the bunk boards are flush to the carriage arms and the bunk brackets.
- Mark, then drill (8) ½" diameter holes for mounting the bunk boards to the bunk brackets.
- Attach the bunk boards with the supplied stainless steel bolts and hardware.



ALUMINUM BUNKS

- The bunk brackets may be installed vertically or at an angle of 20°.
- Tighten bolts to clamp brackets to carriage arm.
- To attach aluminum bunks, first slide them over the top of the brackets.
- Refer to figure for location of holes. Mark, then drill holes through bunks to match existing holes in the angle brackets.
- Attach with ½"-13 x 4" bolts with hex nut inside and flanged nut on the outside

GUIDE POST ASSEMBLY

- The guide post brackets come pre-installed on the carriage arms. The brackets may be repositioned by loosening the nuts on the clamps and sliding along the carriage I-beam.
- Install guide post pipe insert into the brackets and slide PVC protective sleeve over the pipe.
- With boat positioned on the lift, make final adjustments to the fit of the guide posts and then tighten bracket hardware.

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