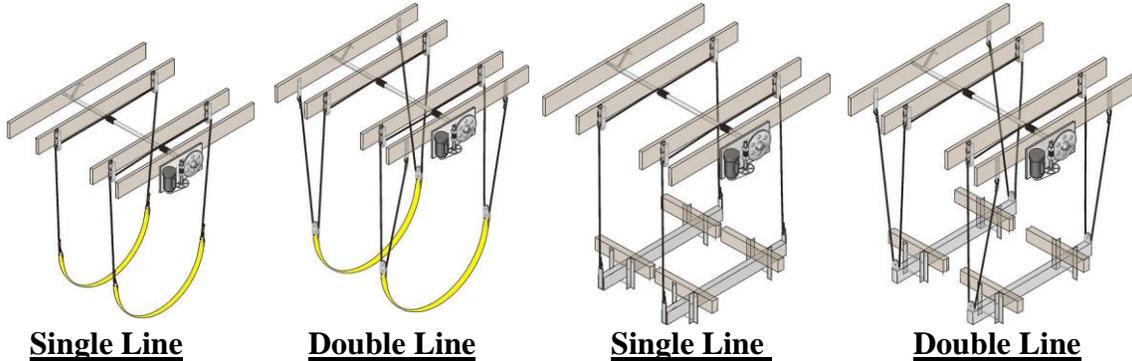


Boat Lift Distributors, Inc

Boat House Kit Installation Manual



Congratulations on your new boat lift kit from Boat Lift Distributors. You have chosen the highest quality product with superior technology at the industries best price. Below are the installation instructions for your guidance, please review & contact us with any & all questions. We understand that not all boathouses are built the same, your sale representative & you probably had to adjust the “basic” boat lift kit to “fit” your installation configuration. With this manual you will find the basic installation instructions along with a drawing from your sales representative illustrating the boat lift kit you purchased (if it goes outside the “norm” of a standard boat house kit)



800-657-9998

www.liftboat.com

INSTALLATION INSTRUCTIONS

(Refer to your lift diagram as you go through these instructions)

Gear Unit

Assemble motor and gear unit.

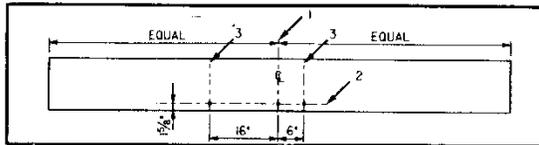
Attach the large pulley to the shaft on the gear unit with the allen screw on the gear side of the pulley, tighten the screw with the allen wrench provided.

Mount the motor to the gear unit (using the four bolts on the gear unit) but do not tighten the nuts. Put the belt on the two pulleys, the pulleys should be lined up. Tighten the motor mounting nuts when the belt has about 1 inch of play when pinched at a point between the pulleys, adjust as necessary for smooth operation.

Gear Unit Mounting

Make sure the board is not bowed or tilted.

1. Locate the middle of the board and draw a line perpendicular to the bottom of the board.
2. Draw a horizontal line 1 5/8 inch from the bottom.
3. Mark the horizontal line 16 inches to the left of the center line, and 6 inches to the right of the center line.
4. Drill 1/2" or 9/16" diameter holes at the points marked in step #3.
5. Bolt gear unit to the board. Add washers if needed between gear unit and board to prevent gears from binding and/or to prevent steel plate from bending.

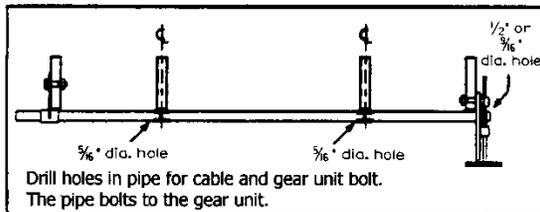


"V" Pipe Support

Install "V" support so that the pipe is level and doesn't bind in the "V" or gear unit. Add washers if needed between "V" and wood. Pipe should have some play at both ends, gear unit gears should have some play also.

Pipe

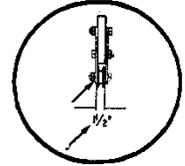
Pipe is schedule 40, 2 inch diameter galvanized pipe. NOTE: PIPE MUST BE STRAIGHT. Roll it on a flat surface and observe any up and down motion, indicating pipe is not straight.



Upper Pulleys

Attach as shown on the diagram for the kit you purchased. Place them farther apart than the width of your boat, so that when your boat is being raised the slings are pulling away from it.

NOTE: The nuts on the lower bolt in the upper pulleys should be tightened using all of the bolt's threads. This insures that the sheave does not turn on the threads. There should be no more than 1 1/2 inches between the upper pulley plates.



Tie Off Plates

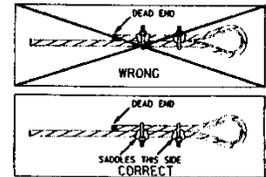
Attach as shown on the diagram for the kit you purchased. (Not applicable for 2800)

Cable

Mark the middle of the cable with a piece of tape. String cable for the rear of the boat. If more than half of the cable is used for the rear of the boat you need a longer piece of cable.

SECURING CABLE: The correct way to attach cable clamps is shown below. The "U" section of the clamp is in contact with the cable's "dead end."

REMEMBER: NEVER SADDLE A DEAD HORSE.



Control Switch

Mount so that the wires come from the bottom of the switch box.

DO NOT OPERATE ON AN EXTENSION CORD. A qualified electrician should install or check electrical system before using.

NOTE: The large gear on the gear unit should turn clockwise when the boat is being lowered.

Slings

Place the rear sling within 2 feet of the transom since that is where most of the weight is. The front sling should be under the keel, not under the slope of the bow. You might want to adjust the cable so that if water gets in your boat it will drain easily.

Service of Boat Lift

Gear unit has three grease fittings, one between the large gear and the steel plate and two on the square blocks. These should be well lubricated.

The gears should also be kept lubricated, the teeth and the edge of the large gear below the teeth.

The pulleys turn on stainless steel bolts, the bolts should be lubricated periodically with 30 weight oil..

All nuts should be checked periodically for tightness.

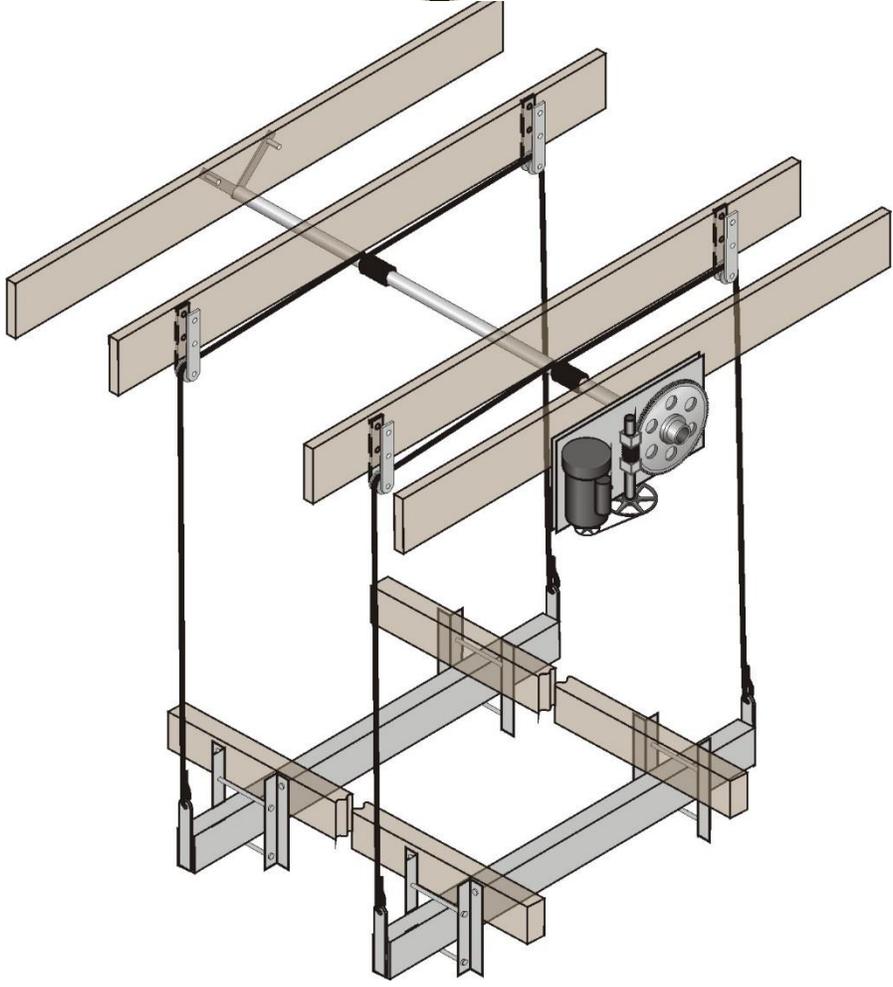
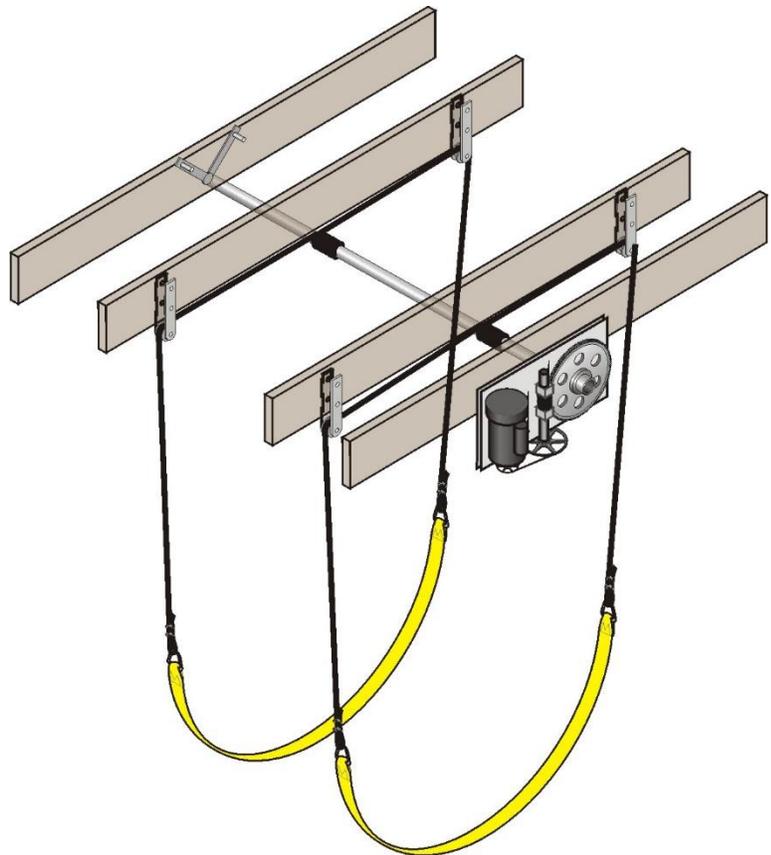
Be sure that insects, birds, etc. do not build nests in the motor.

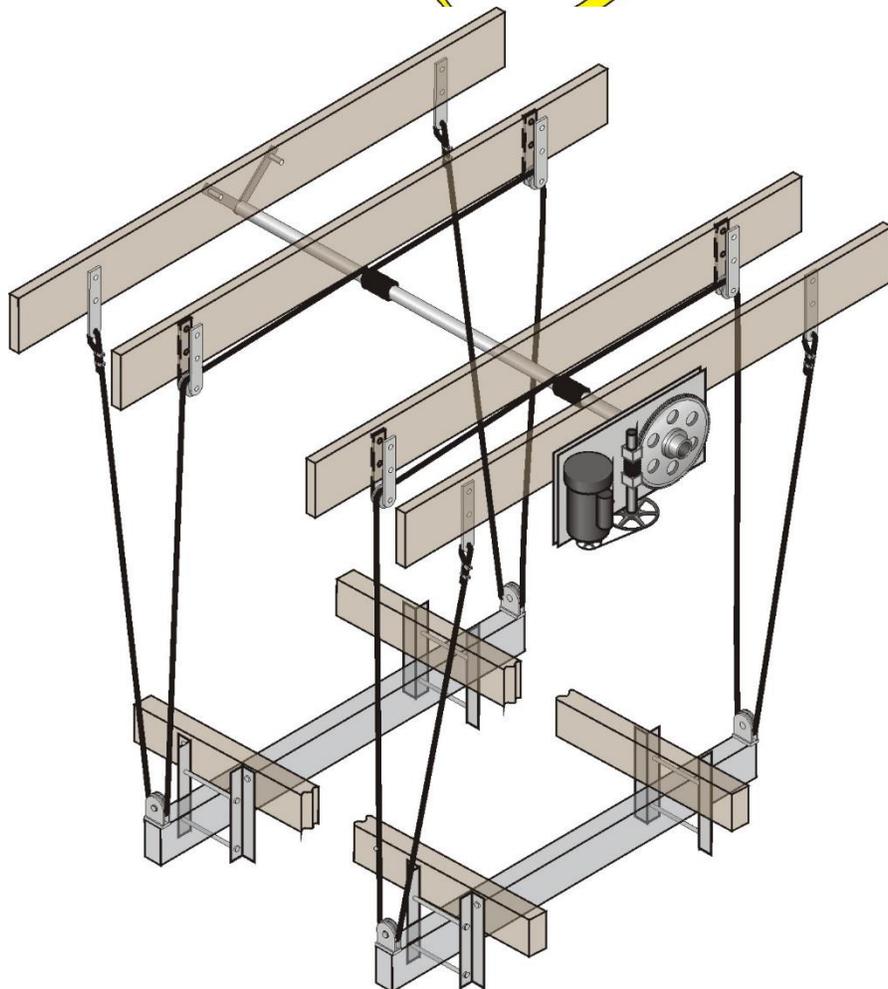
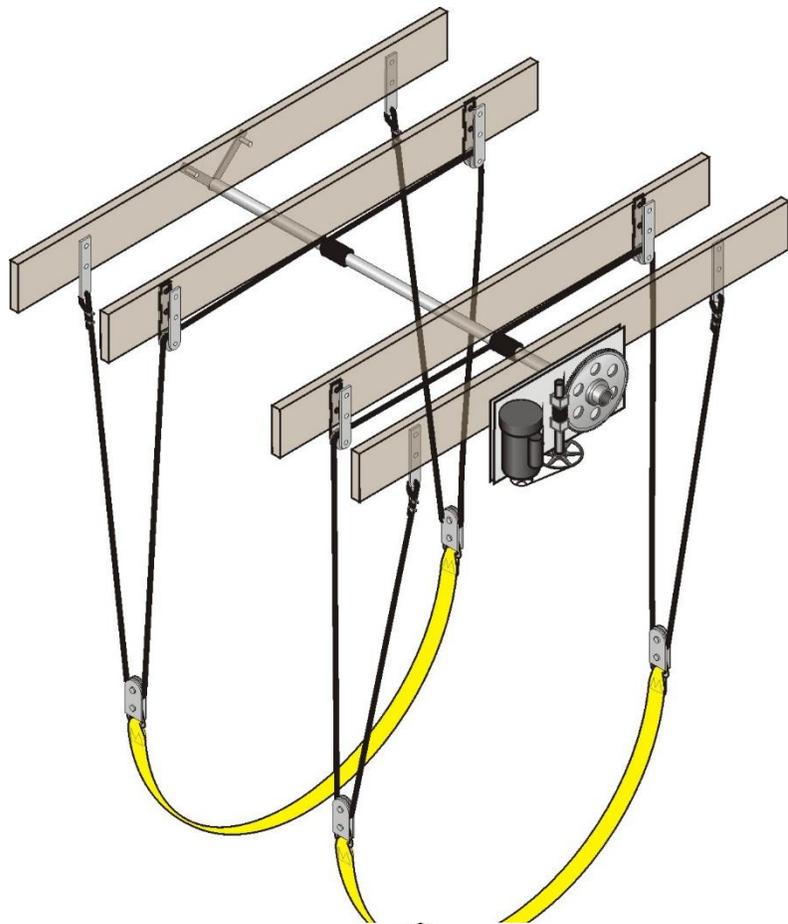
Cable will not last indefinitely. It must be replaced occasionally. Cable should be inspected regularly to be sure there are no broken strands and that it is not rusting. Periodically lubricate cables. Cable clamp nuts should be checked regularly for tightness.

**CAUTION: DO NOT HAVE ANYONE IN THE BOAT WHILE RAISING OR LOWERING IT.
DO NOT HAVE ANYONE BETWEEN THE BOAT AND THE DOCK.
DO NOT HAVE ANYONE UNDER THE BOAT.**

Special Notes On Installation

- 1. Grease all pulleys, pipe support(s) & the (3) grease inserts on the gear plate before operation.**
- 2. While mounting the pipe supports it's important that everything is square to the whole in the gear plate. For example if your boathouse is not square then the pipe will go "crooked" into the gear plate. Take a measurement from the left side of the gear & then on the right extending in a straight line to the end joist that houses the back pipe support. If the left measurement is 12'6" & the right is 13', then you're out of alignment by 6". Add a block or washers to bring everything into square.**
- 3. The cable runs straight through the pipe as (1) whole piece do not cut. Make sure the hole in the pipe for the cable is in a perfect line from pulley to pulley. This will ensure (1) cable will wrap to the left of the hole & the other cable will wrap to the right. This will give you opposing forces on the pipe thus creating a non load-bearing pipe.**
- 4. If you're using a sling kit, make sure you mount your pulleys 1' – 2' wider than the boat each side. This will ensure the slings are pulling out & away from the hull of the boat not causing any damage. If you have a deep "V" boat then you will need to mount wider. Also mount the pulley brackets anywhere from a 30 – 45 degree angle toward the boat.**
- 5. After installation is complete turn the motor on & spool up the excess cable on the pipe. Make sure to keep tension on the cable so it wraps tight & even. Have 4 people hold the cable tight when lifting up for the 1st time so it spools up properly & doesn't "back-lash". If you have a continuous problem of the cable "back-lashing" even after the boat has been on it, you'll need to add cable weights, simply call your sales representative for details.**
- 6. Double & triple check everything is accurate before attempting to raise the craft. If you have questions please call your sales representative.**





**OVERHEAD BOAT LIFT
OPERATION
&
MAINTENANCE
INSTRUCTIONS**

- **Before each use, visually inspect lift for any trouble areas:**
 1. **Inspect cables for frayed strands.**
 2. **Inspect slings/cradle for major wears.**
 3. **Inspect cable clamps to ensure they are secure.**
 4. **Inspect pipe to ensure it's straight & level.**
 5. **Inspect motor & gear unit for any obvious trouble spots.**
 6. **Inspect electric cable for any exposed wires.**

- **To operate the lift, follow these simple procedures:**
 1. **MAKE SURE NO ONE IS IN THE BOAT DURING OPERATION!**
 2. **Make sure everyone is clear & not touching lift cables, slings/cradle, & electric wire.**
 3. **Move the toggle switch into the appropriate position to either raise or lower the boat.**
 4. **NEVER REMOVE YOUR HAND FROM TOGGLE SWITCH, ALWAYS REMAIN ATTENTIVE WHEN OPERATING THE LIFT!**
 5. **Never lower slings/cradle to the mud, this will cause the cable to "backlash."**
 6. **Never raise the sling/cradle up to the pulley in the roof, this will put too much stress on the cable.**
 7. **Find the desired position of the boat either up or down & simply return the toggle switch to the center neutral position.**
 8. **Never leave your slings in the water for longer than 24 hours.**

- **Once a month or as needed, grease the gear plate in the 3 grease fittings. Use a standard marine lubricant & grease gun. CAUTION, NOT GREASING THE UNIT WILL CAUSE THE UNIT TO FAIL.**
- **Replace cables once a year, or as needed**
- **If cables show wear within a couple of weeks, review installation for any trouble spots. If pulleys are not aligned or pipe is "bowed" re-adjust for optimal use.**
- **Clean motor from debris once a month.**
- **Always unplug the lift after operation.**
- **Monitor slings for wear & tear. Red threads will appear in wear spots warning you of deterioration.**
- **Periodically check the belt driving the gear plate. Make sure the belt has at least 1/2" of play. If belt is too tight the lift will not operate, if it's too loose the pulley will just spin not operating the lift.**
- **Check hardware for any rust. If you see rust form simply scrub the spot & spray cold galvanize in the area. If rust is too severe, replace immediately.**

CAUTION, NOT FOLLOWING THESE STEPS CAN CAUSE SERIOUS INJURY OR DEATH.
PLEASE CONSULT YOUR LOCAL SALES REPRESENTATIVE OR MANUFACTURER WITH ANY
AND ALL QUESTIONS