

Davit Master

Power to Lift - Quality to Last

5560 Ulmerton Road, Clearwater, Florida 33760
1-800-878-5560 • (727) 573-4414 • Fax: (727) 572-0590

MINI LIFT INSTALLATION INSTRUCTIONS (Models 1000 and 1500)

Read this manual carefully before installing the DavitMaster Mini Lift System. **REFER TO LOCAL BUILDING CODES FOR EXACT REQUIREMENTS.** The following instructions indicate the minimum requirements necessary for installing the DavitMaster Mini Lift onto a dock, piling, seawall or bulkhead foundation. **Evaluate each situation based on existing conditions. DavitMaster is NOT responsible for the integrity of dock, piling, seawall or bulkhead.**

INSTALLING THE MINI LIFT TO A CONCRETE SEAWALL

Preparing the Seawall for Proper Installation of Mini Lift

1. (Refer to Fig. 1) Dig a hole directly behind the seawall cap, large enough to accommodate the needed concrete. DavitMaster recommends using 1/4 yard of concrete.

NOTE: A raised pour foundation should be used if additional height is needed for the craft to clear high waters.

Installing Rebar and Base Bolts

1. Install **REBAR (5/8")** and anchor **BASE BOLTS** (refer to bolt hole pattern Fig. 2) per local building code requirements. Use a base template to hold base bolts in their proper position while attaching the base bolts to the rebar.

NOTE: The base template (representing the actual base) must be placed as near to the forward edge of the seawall cap as possible.

2. (See Fig. 1) Holes should be drilled in the seawall cap to accommodate the front base bolts.

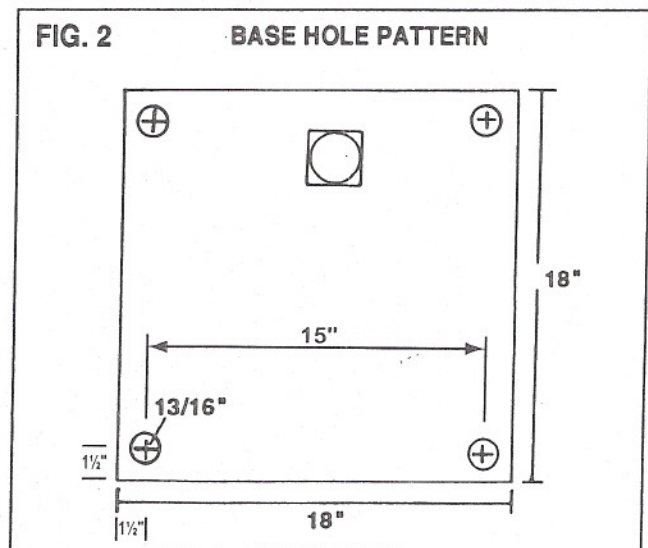
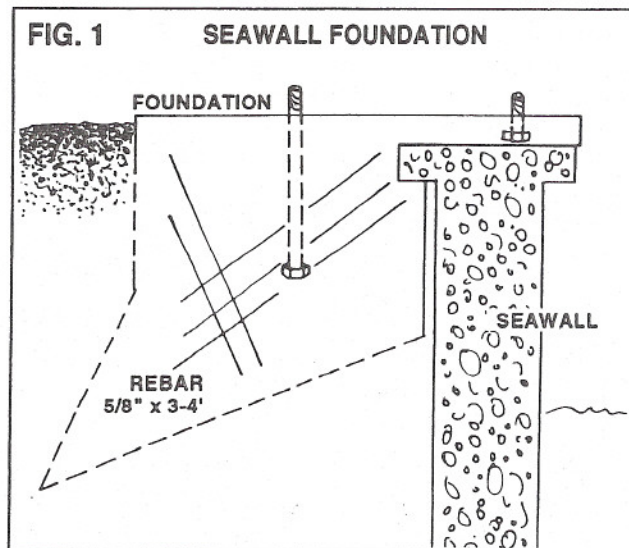
Pouring a Flat, Level Concrete Foundation and Installing the Bases

1. Pour the concrete, then level the concrete even with the seawall cap using front to back and side to side strokes.

NOTE: The foundation must be level to properly install the Mini Lift base.

2. Allow the concrete to cure overnight before installing the Mini Lift base.

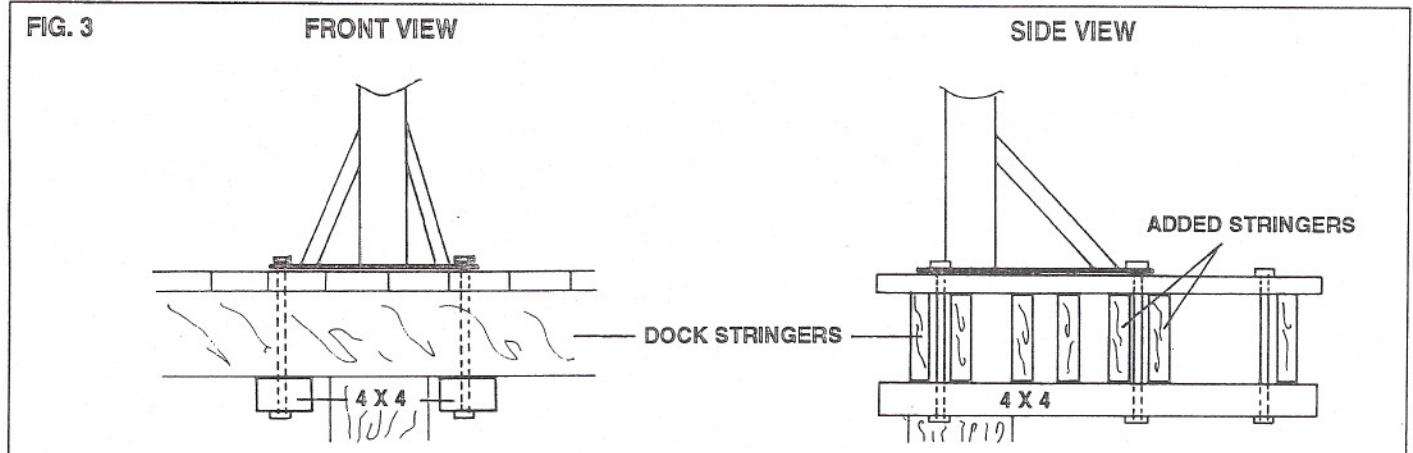
NOTE: The Mini Lift base can be bolted down the next day, but **NO WEIGHT** should be placed on the foundation until the concrete has cured for at least one week.



INSTALLING THE MINI LIFT ONTO A DOCK

NOTE: With dock installations it is important to either have or install at least an 8" piling directly under the base mount. This is needed for reinforcement and for mounting the kicker to the piling.

1. (See Fig. 3) Bolt base to dock using holes located in the davit base.
2. (See Fig. 3: Front View) Position 4" x 4" boards parallel with base bolts so that they run between the first and second dock stringers (perpendicular to the dock stringers). Mark the position of each bolt on the boards and drill through the boards.
3. (See Fig. 3: Side View) Fasten 2" x (depth of stringers) boards between each base bolt. These extra stringers will help prevent the deck boards from warping.
4. (See Fig. 3: Front View) Now bolt the 4" x 4" boards into place using the base bolts.

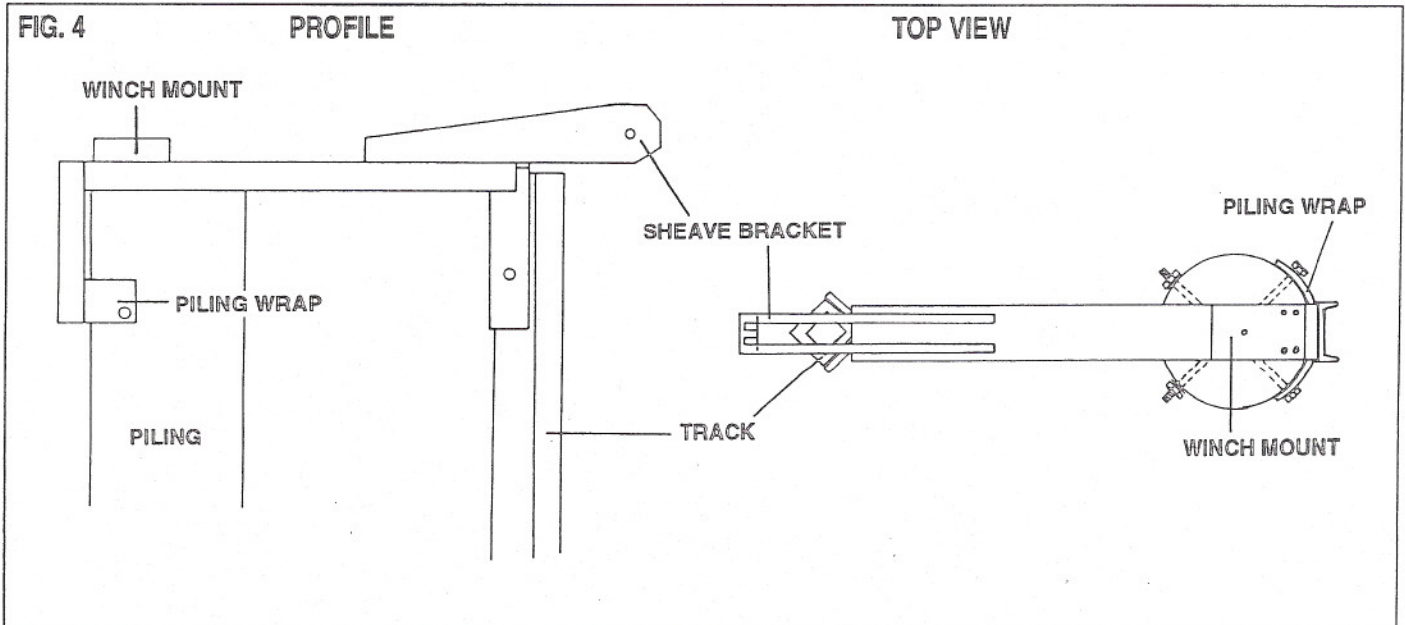


INSTALLING THE MINI LIFT TO A PILING

NOTE: It is necessary to make sure that any pilings used for the MINI LIFT installation be at least 36" taller than the dock level. This is so the MINI LIFT base can be properly installed.

1. (See Fig. 4 and Fig. 5 on back cover) Stand the pile mount base against the piling and mark the location of the bolt holes.
2. (See Fig. 4: Profile and Top View for bolt hole pattern) Drill through piling. Stand base up against piling and push bolts through the mounting feet on the base and through the piling. Tighten nuts down on the bolts.

NOTE: On new piling installations shrinkage should be expected. Bolts should be re-tightened at a later date.



INSTALLING THE TRACK, WHEEL ASSEMBLY & BASE

Determining the Length of the Track

NOTE: It is important to get an accurate measurement of the track length BEFORE ordering the track from the factory.

1. Measure the distance from the seawall or dock to the seabed. Depending on how soft the seabed is, add approximately 2 feet to your first measurement. Add a few more feet if the seabed is very soft.

NOTE: If you have measured properly, you should not need to trim the track unless you hit rock.

Positioning the Base and installing the Track and Wheel Assembly

1. (Refer to Fig. 5) Position the Base where it is to be mounted to determine the proper position of the Track. (Remove the base for installation after Wheel Assembly is on the Track.) Jet or drive the Track into the seabed, leaving 3 feet above the dock or seawall. (It may require 2 people to hold the Track.)

NOTE: Install the Base AFTER installing the Wheel Assembly.

2. Slide the Wheel Assembly over the Track and tie off Wheel Assembly for later rigging.

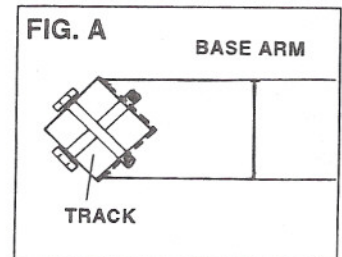
Installing the Base and the Track to the Base Arm

1. (Refer to Fig. 1, 3, or 4) Install the MINI LIFT Base at the pre-determined location.

2. (See Fig. A) Position the Track in the notch of the Base Arm. Make sure the Track is lined up properly. Bolt Track to the Base Arm with the 5/8" bolts provided.

3. **KICKER:** (See Fig. 5) Bolt the Kicker around the Track (BELOW the Wheel Assembly), then slide the Kicker down the Track until it is at the seabed.

Make sure the Kicker Support Arm is well positioned against the seawall or piling.



INSTALLING THE WINCH & RIGGING THE MINI LIFT

Mounting the Winch to the Winch Mount

1. (See Fig. 5) Mount either the electric or manual winch to the winch mount with the bolts provided. Use 1/2" bolts with the electric winch and 3/8" bolts with the manual winch.

Rigging the MINI LIFT system and Installing the Cradle Arms

NOTE: The winch does not come pre-assembled with cable.

1. Attach cable to winch drum.

2. (See Fig. 5) Pull the cable out from the winch. Slide the end of the cable through Sheave Bracket #1, then through Sheave Bracket #2 and then attach the cable end to the cable bolt (located on the Sheave Bracket #1).

3. Bolt the sheaves (pulleys) into each Sheave Bracket with the cable running over the sheave on (Sheave Bracket #1) and under the sheave on (Sheave Bracket #2).

4. Raise the Wheel Assembly up until it is level with the dock or seawall. Slide each Cradle Arm through the opening on the extended arm of the Wheel Assembly and secure the Cradle Arms in place with the bolts provided.

INSTALLING THE SWITCHING SYSTEM & RMC (Optional for electric models only)

Mounting the Rope Lever Switch

The Rope Lever Switch mount bolts to the side of Sheave Bracket #1 by using the 3/4" Sheave bolt and 1/2" cable dead end bolt. The switch bolts to the top of this bracket using the two small holes at the outboard end and two #8 bolts.

Installing RMC - Radio Motor Control unit (For use with the DE-12 winch only)

1. (Not shown on Fig. 5) Mount the RMC control box in a convenient location.

NOTE: The Rope Lever Switching System is not necessary when a RMC unit is used. Switches are located on the RMC box and the MINI LIFT can now be operated with a handheld transmitter.

INSTALLING THE CHOCKING SYSTEM

Installing the Chock Brackets to the Cradle Arms

1. (See Fig. 5) The flat surface of the Chock Bracket will face toward the Chock Board. There are no right or lefts to the Chock Brackets so installation is easy. Simply bolt over and under the cradle arm with the bolts provided.

2. Bolt the first set of Chock Brackets closest to the Wheel Assembly and space the second set to fit the boat hull.

NOTE: For Dual capacity MINI LIFTS the second chock system should be placed so the second craft can drive on easily.

Installing the Chock Boards to the Chock Brackets

1. (See Fig. 5) Bolt the carpeted Chock Boards to the inside of the Chock Brackets.

NOTE: You can order pre-assembled carpeted lumber from DavitMaster.

MINI LIFT INSTALLED TO A PILING (The MINI 1500 is illustrated BELOW)

FIG. 5

