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## **BOAT DAVIT INSTALLATION INSTRUCTIONS** **(MODELS: 600 LB. — 8,000 LB.)**

**IMPORTANT:** Read this manual carefully before installing the DavitMaster Boat Davit system. **REFER TO LOCAL BUILDING CODES FOR EXACT REQUIREMENTS.** The following instructions indicate the minimum requirements necessary for installing DavitMaster Davits onto a seawall, bulkhead, dock or piling foundation. Each situation must be evaluated based on existing conditions. DavitMaster is NOT responsible for the installation nor the integrity of the seawall, bulkhead, dock or pilings.

### **INSTALLING DAVITS ONTO A CONCRETE SEAWALL**

#### **Locating Placement of Davit Foundations**

1. DavitMaster recommends placing the foundations 2 feet further apart than the centerline length of the boat (refer to Fig. 1).
2. Dig a hole according to size of lift and how much concrete is needed. (see Chart A). The hole should be dug directly in back of the seawall cap in order to obtain maximum reach. The hole must be of sufficient size to accommodate the amount of concrete needed.

#### **Installing Rebar and Base Bolts**

1. Install REBAR ( $\frac{1}{2}$ "") and anchor BASE BOLTS (refer to bolt hole pattern [Chart B], on back) 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. Holes should be drilled in the seawall cap to accommodate the front bolts (Fig. 1).

#### **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** for proper inboarding.
2. Allow concrete to cure overnight before installing the davit bases.  
**NOTE:** The davit bases can be bolted down the next day, but **NO WEIGHT** should be placed on the foundation until the concrete has cured for at least a week.

### **INSTALLING DAVITS ONTO WOOD, BLOCK OR METAL BULKHEADS**

#### **Pouring concrete for Wood, Block or Metal Bulkheads**

1. On all foundations poured behind wood, block or metal bulkheads it is important to use more concrete than with a concrete seawall. We recommend using approximately  $\frac{3}{4}$  to 1 yard additional concrete or more depending on the specific conditions of the bulkhead.
2. To maximize the davit's reach on a wood bulkhead, we recommend a raised foundation extending over the wood bulkhead.

#### **Installing Steel Beams for 4,000 Davit Systems and Heavier**

1. For boats 4,000 pounds and over it is recommended that one or two steel I-Beams, about 10 feet long be incorporated into each foundation and extended back into the yard to be a "dead-man" foundation.  
**NOTE:** The "dead-man" foundation supports the primary foundation.
2. Normally  $\frac{1}{2}$  to  $\frac{3}{4}$  yards of concrete in each "dead-man" foundation is required.

# POURING THE CONCRETE FOUNDATION

TOTAL WT. OF BOAT	TOTAL CUBIC YARDS OF CONCRETE (PER HOLE)*	VARIATIONS
600 - 800 lbs.	¼ yard	If extended davit arms are used, add additional ½ yard of concrete to each foundation to counter-out additional cantilever loading on the extended davit system.
800 - 1400 lbs.	¼ yard	
1400 - 2500 lbs.	¼ yard	
2500 - 3500 lbs.	1 yard	
3500 - 5000 lbs.	1¼ to 1½ yards	
5000 - 7000 lbs.	1¾ to 2 yards	
7000 - 10000 lbs.	2 yards (minimum)	

\*CONCRETE: 3000 tensile, 4" slump

FIG. 1

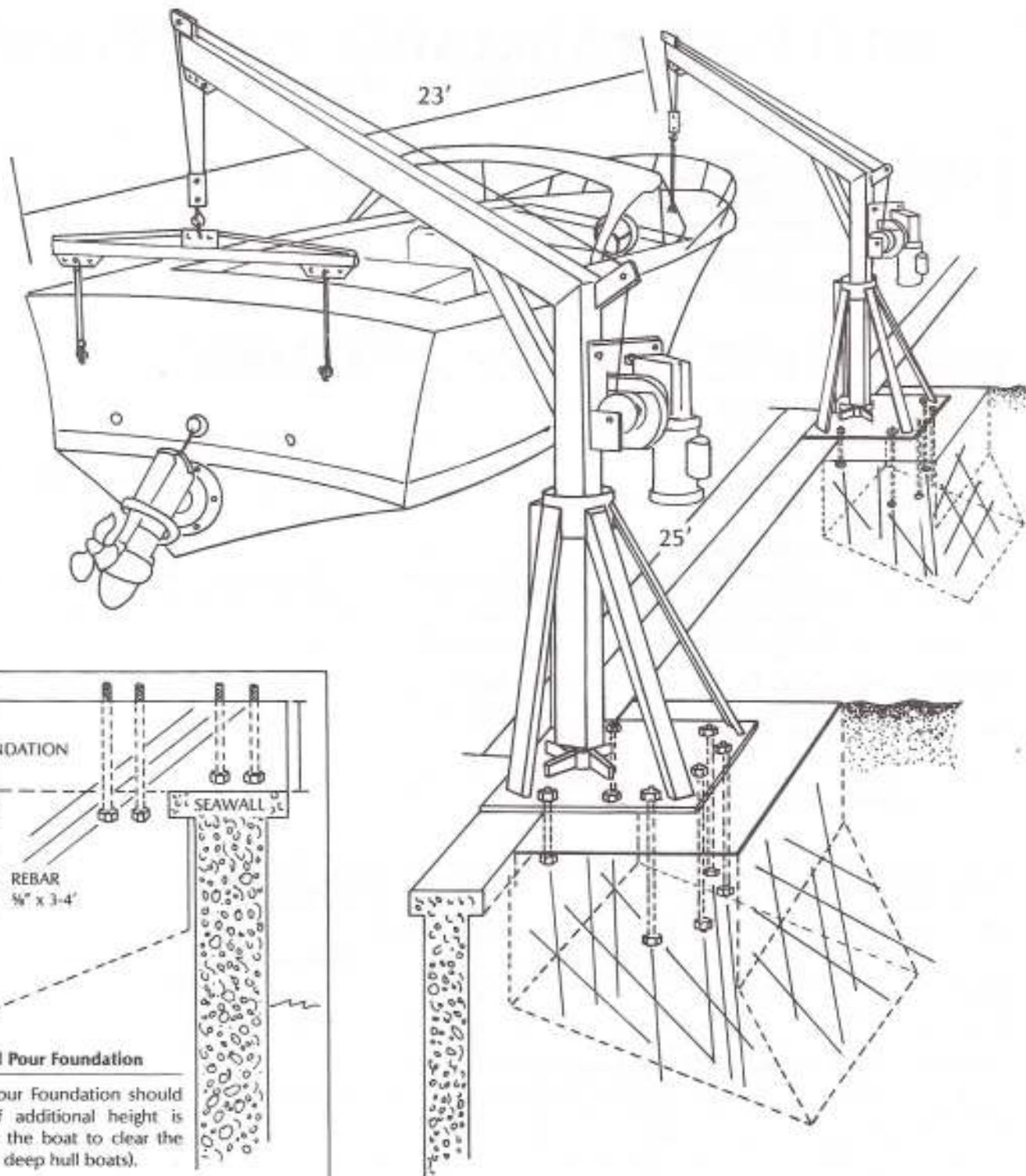


FIG. 2

FOUNDATION  
SEAWALL  
REBAR  
½" x 3-4"

**Raised Pour Foundation**

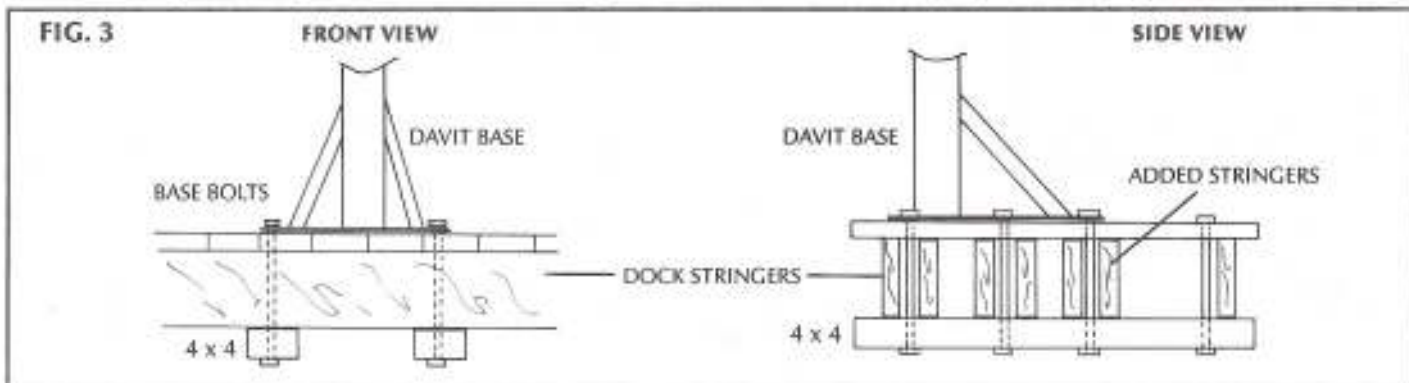
A Raised Pour Foundation should be used if additional height is needed for the boat to clear the seawall (i.e. deep hull boats).



## INSTALLING DAVITS ONTO A DOCK

**CAUTION:** It is recommended that dock mounted davits be restricted to 1,000 pound loads, assuming dock is of sufficient size (i.e., not just a cat walk) and is in good condition. DavitMaster is NOT responsible for the integrity of the dock construction.

1. Position davit base where you want it, then place bolts thru bolt hole located in the davit base.
2. Position a 4 x 4 board parallel with base bolts so that it runs between the first and second dock stringers (perpendicular to the stringers), (Fig. 3).
3. Mark position of each bolt on the board and drill. Fasten 2 x (depth of stringers) boards between each base bolt (Fig. 3). Now bolt the 4 x 4's into place (using base bolts). The extra stringers between each bolt will help to prevent warping of the deck boards.



## INSTALLING DAVITS TO PILINGS

**CAUTION:** It is strongly recommended that pile mounted davits be restricted to 4,000 pound loads. It is also recommended that a competent marine contractor assess the requirements needed for proper installation of davits onto pilings. We do not recommend pivoting davits installed to pilings. It is very important that heavier boats (1,000 lbs. and up) not be pivoted on piling installations. DavitMaster is NOT responsible for integrity of pilings.

1. It is necessary to make sure that any pilings used for davit installation be at least 40" taller than the dock level. This is so that the davit pile mount bases can be properly installed.

**NOTE:** Depending upon the structure and integrity of the dock, pilings and boat weight, bater pilings may be needed to reinforce primary davit pilings.

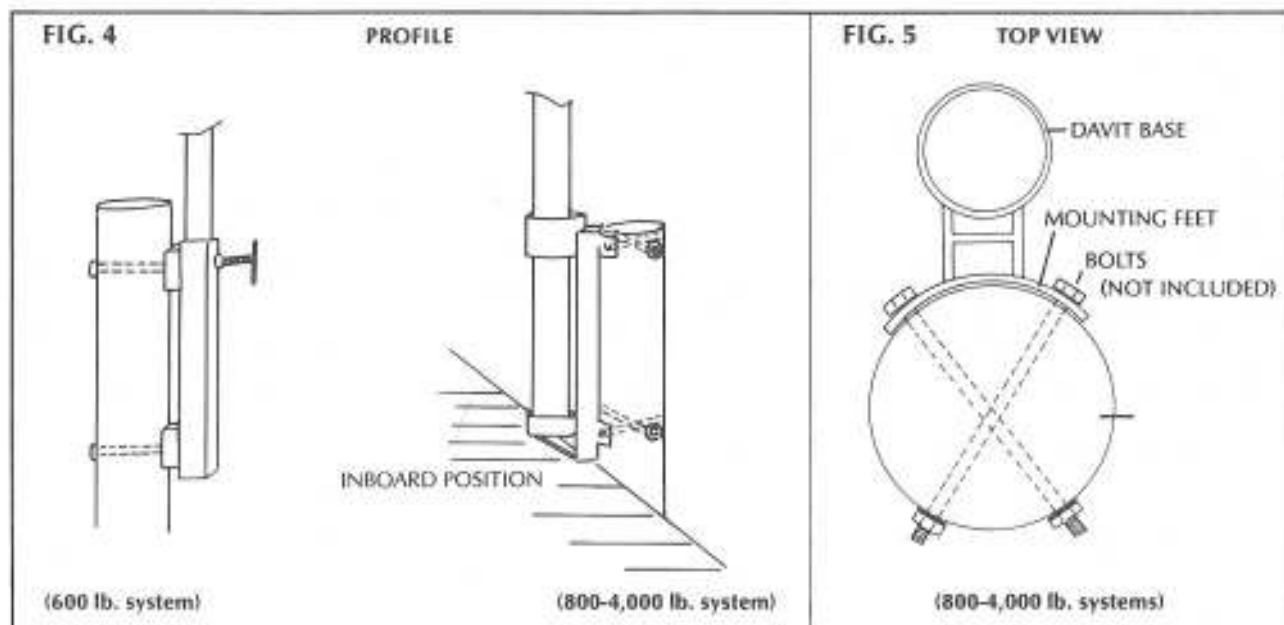
2. Stand pile mount davit base up against the piling and mark the location of the bolt holes.

**NOTE:** DavitMaster strongly recommends inboard mounting of the pile mount bases (Fig. 4).

3. Drill thru piling (refer to Fig. 4 and 5 for bolt pattern).

4. Stand base up against piling and push bolts thru the mounting feet and piling. Tighten nuts down on the bolts.

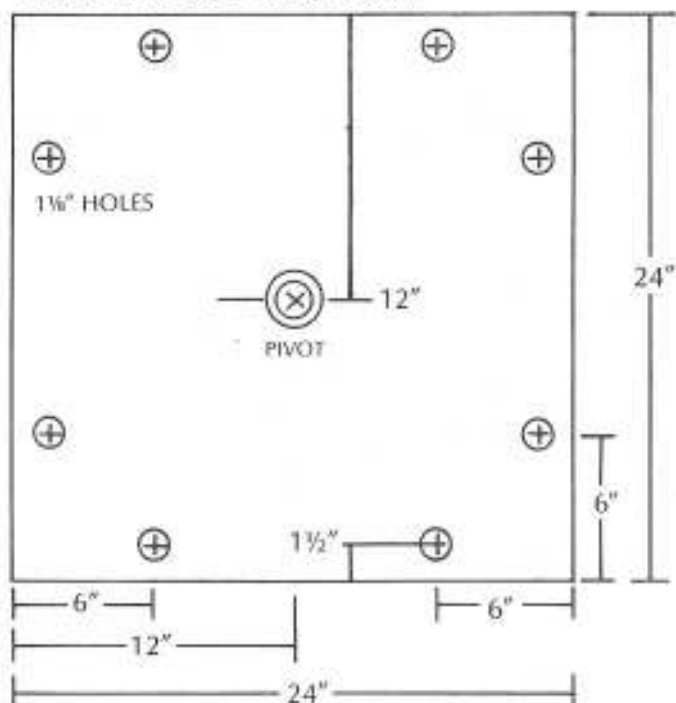
**NOTE:** On new piling installations shrinkage should be expected. Bolts should be re-tightened at a later date.



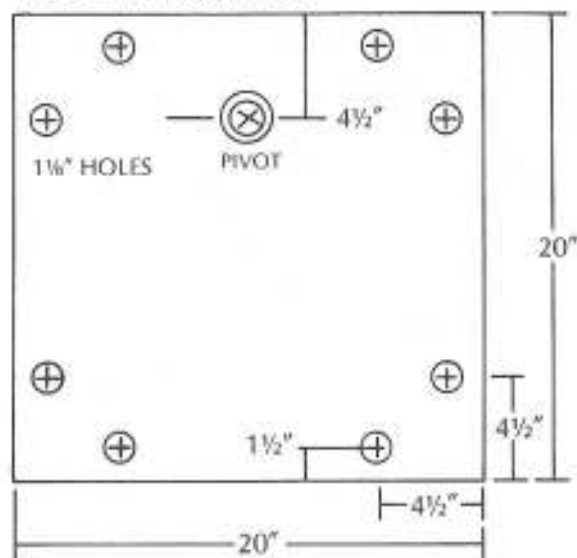
# DAVIT "FLAT BASE" HOLE PATTERN CHART

## CHART B

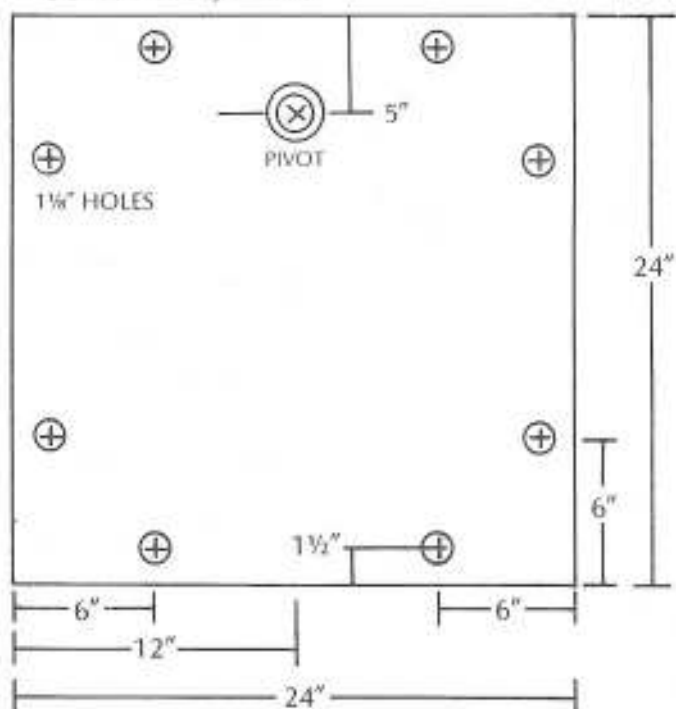
MODEL: B-5500, B-6500, B-8000



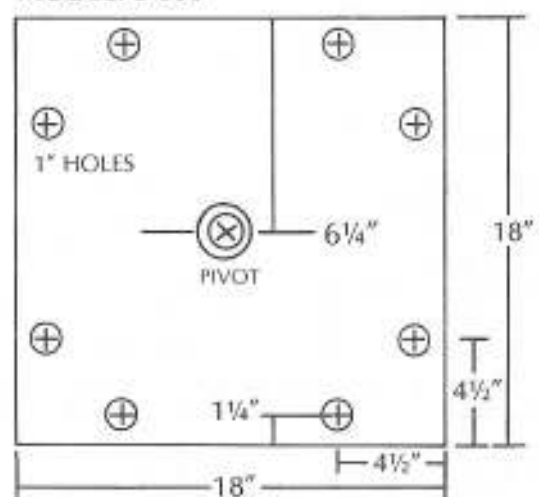
MODEL: B-1000, B-1850



MODEL: B-3000, B-4000



MODEL: B-800



MODEL: P-600

