
5,000 lb Boat Lift – Wood Beam Installation Guide

Step 1: Beam & Hanger Setup

- Use **2x10 or 2x12 double wood boards** with hangers.
- Position:
 - First board starts **5' from outside of slip (rear)**
 - Second board about **10' forward** from the first, adjusted by boat length & motor location.
- Ensure **all boards and hangers are square** to the slip.

Step 2: Flat Plate Hanger Installation

- Mount flat hangers on **opposite sides** of each board.
- Plates should be **6" wider than bottom beam length**.
- Bolt with **minimum 1/2" thick bolts**.
- Example: For 10' beams, place flat plates **5' 3" from center** each way.



Step 3: Pipe Bearing Setup

- Find center of the slip.
- Install **424b** and **4242l** pipe bearings using 7/16" bolts through both boards.



Step 4: Cable Preparation

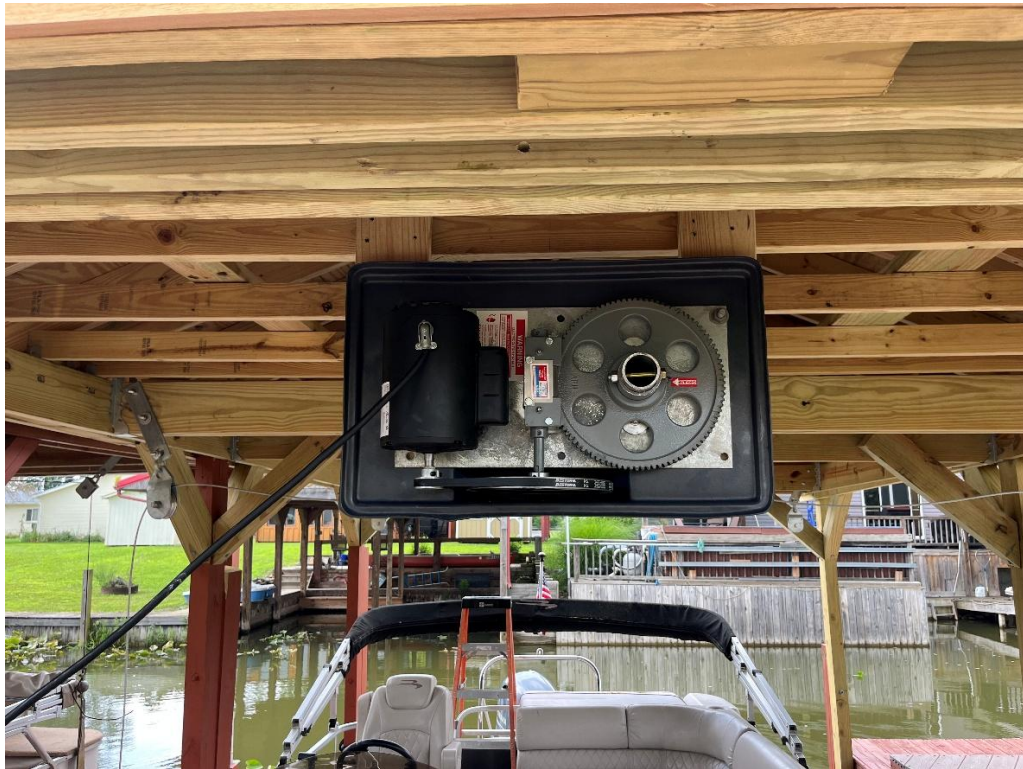
- Use **5/16"** cables.
- Mark **center of each cable** with tape or marker.

Step 5: Pipe Installation

- Slide **2" Schedule 40 pipe** through bearings.
- Allow **at least 2" of pipe past the bearing**.
- Choose gear drive location (front of slip recommended) and double board there.

Step 6: Gear Drive Installation

- Mount gear drive on pipe:
 - **Motor on left-hand side**, worm shaft down.
 - Secure with **two 1/2" bolts**.
- Drill pipe hole to align with bull gear sleeve.
- Use **3/4" bolt and nut** to secure gear to pipe.



Step 7: Cable Routing

- Drill a hole that is **1/16" larger** than the cable diameter in center of pipe at each bearing.
- Attach **1/2" shackles** to hangers.
- Run cable:
 - Through pulley → pipe → opposite pulley.
 - Place **center mark inside pipe**.

Step 8: Cable Clamp & Beam Attachment

- Clamp cables per diagram:
 - U-clamp faces **tail end**, protecting load-bearing side.
 - Shorter tail on back end adds tilt for natural boat position.

- Hook cables to bottom beams or slings with ½" **shackles**.

Step 9: Motor & Drive Setup

- Mount motor but **leave bolts loose initially**.
- Install correct **pulley size** (6", 10", or 12") onto worm gear shaft:
 - Align **half-moon key**.
 - Alan screws face up.
- Tighten pulley screws.
- Install drive belt — not too tight or loose.
- Once aligned, tighten motor bolts.

Step 10: Switch & Power

- Run wires to switch location.
- Mount switch and test **GFCI** outlet.

Step 11: Final Adjustments

- Cable wrapping:
 - Requires **multiple people**.
 - Wrap from center **outward**, opposite directions per side.
- Adjust cables to ensure beams are level.

Step 12: Boat Fit & Safety Check

- Install ski or pontoon chocks as needed.
 - Use trailer measurements for reference.
- Inspect:
 - All **bolts, shackles, clamps**.
 - Boat fit on lift — make final adjustments.
- **Safety Tips:**
 - Never lift boat with people on board.
 - Keep hands away from pulleys when power is on.
 - Never stand beneath the boat when lifted.