



BEACH LADDER INSTALLATION INSTRUCTIONS

Package Contents:

- (1) Ladder
- (1) Handle
- (2) Extension Brackets
- (2) Mounting Brackets
- (1) Strap
- (4) Screw/Nut/Washer
- (2) Backing Plates
- (4) Self Tapping Screws
- (1) Ghost Mount Assembly
Body, Stamped Retaining Washer, Nut

EXTENSION
BRACKETS



MOUNTING BRACKETS

Required Tools:

- 1/8" Drill Bit
- 1/4" Drill Bit
- 5/8" Drill Bit
- 3/16" Drill Bit
- #2 Phillips Bit
- #3 Phillips Bit
- 9mm Wrench
- 10mm Wrench
- 21mm Wrench
- Clamps

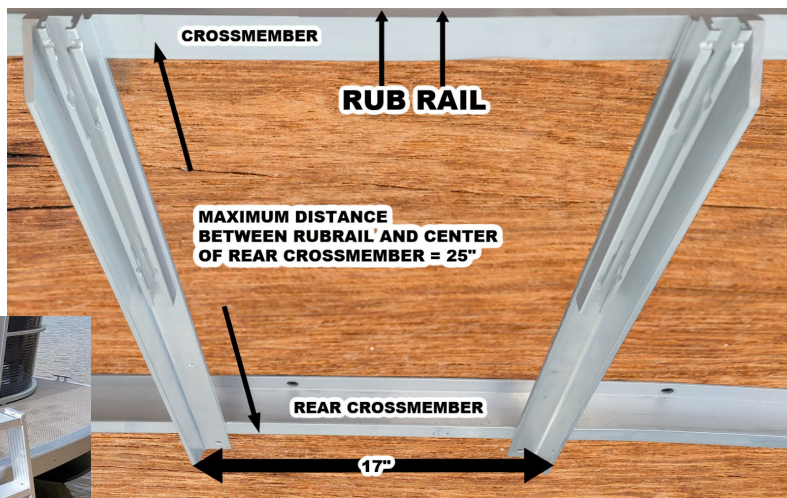


Additional Tools Required For Boats with Splash Pans:

- 2 1/2" Hole Saw
- Grinder with Cutoff Wheel or Hacksaw

Minimum Mounting Requirements:

1. The ladder is intended to be installed on the Starboard side.
2. The boat must have a cross member directly behind the rub rail and a second within 25 inches of the first in the intended mounting location.
3. For handle installation, there must be a minimum of 7" of deck surface measured from inside the rub rail to the fence.



Mounting Brackets to Extension Brackets:

1. Using self tapping screws and a #3 Phillips Bit, attach the Mounting Brackets to the Extension Brackets, as pictured.
(Notes: (1) The front screws will be installed in a later step. (2) If your boat has a splash pan, the self tapping screws will need to be cut flush with the top of the extensions.)
2. Place brackets onto the ladder and insert the retaining pins. (If brackets do not slide freely apply a small amount of lubricant.)



Determine Mounting Location:

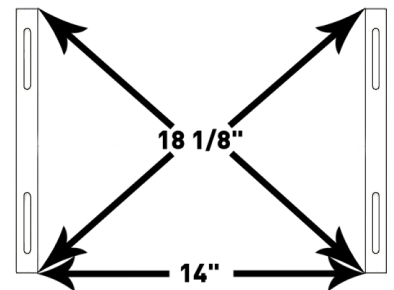
Use clamps to assist in determining the best mounting location. Use the diagram above for reference. The mounting location needs to meet the following requirements:

- The extension brackets intersect two frame cross members.
- The forward edge of the mounting bracket is flush with the outside face of the rub rail.
- The ladder is in a location where the handle will have the necessary deck space for installation. (See Handle Installation Below)
- Consider clearance for scissor lift trailers and/or hoists.



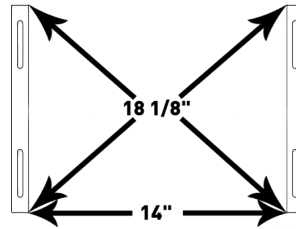
Mounting the Extension Brackets:

1. Using clamps, hold the extension brackets to the mounting location, with the ladder installed.
2. Adjust the Mounting Brackets to the EXACT dimensions pictured to the right.
3. Connect the **rear** of the Extension Bracket (on each side) to the cross member: **a)** For boats without splash pans, install using a 1/4" drill bit to create a hole where the extension bracket intersects with the frame cross member and fasten using the supplied screw, washer, lock washer, nut with a 10mm wrench and #3 Phillips Bit. **b)** For boats with splash pans, install using a 3/16" drill bit to create a pilot hole where the extension bracket intersects the frame cross member and fasten using the supplied self tapping screw and a #3 Phillips Bit.



4. Remove the retaining pins and pull the ladder out of the mounting brackets.

5. Reconfirm the inside measurements (Pictured) and drill a 1/4" hole through the slot in the Mounting Bracket at the front cross member intersection and then install the supplied screw from bottom side. On the top side of the cross member, secure the screw with the supplied backing plate, washer, lock washer and nut. *(Note: If you are working with a boat with pans, access holes will need to be drilled using a hole saw to install the hardware)*



Handle Installation:

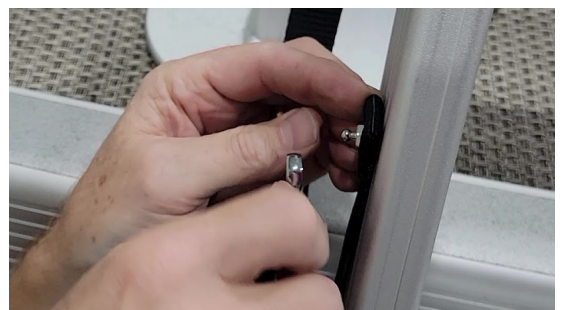
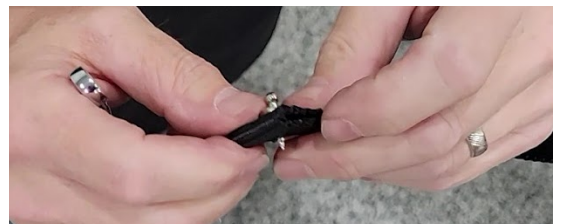
The handle uses a Ghost Mount for installation. The handle must be installed 1 1/2" - 2" from the side of the ladder in the raised position. Ensure the handle location will not have intrusions below the deck when installed. The Ghost Mount is designed to be installed through the plywood deck only.

1. Remove the plastic washer from the bottom of the handle to be used as a template. (Reinstall when complete.)
2. Place the handle in your proposed mounting location and confirm the following:
 - a. The mounting point (center of the washer that you are using as a template) is 2" from the outside of the ladder leg.
 - b. The mounting location is not over a cross member or any other below deck intrusions.
 - c. The mounting location clears the cross member enough to allow for proper placement of the stamped Ghost Mount Retaining Washer.
3. Once you have confirmed your mounting location, mark the center point with a marker.
4. Using a very sharp drill bit, drill a 5/8" hole, straight-down, in the mounting location. Once the drilling is complete, remove access wood chips and dust both sides of the hole to ensure proper installation of the Ghost Mount Hardware.
5. Push the Ghost Mount Body into the mounting hole and drive it in with a mallet, if needed. (If your mounting location is close to a cross member, confirm the proper position of the "flats" on the mounting body in relation to the stamped washer that will be placed on the bottom side.
6. Install the stamped retaining washer (TEETH FACING UP INTO THE PLYWOOD) followed by the nut. Tighten the nut using a 21mm wrench until the teeth of the stamped washer bite into the plywood - **DO NOT** use power tools and **DO NOT** overtighten.



Lifting Strap Installation:

1. Install the handle into the Ghost Mount by removing the beauty screw and installing the handle by spinning the mounting screw on the bottom of the handle into the mount.
2. Drill a 1/8" hole centered in the handle 3/4" below the round tube, on the ladder side. Clean the hole to make sure no aluminum chips remain.
3. Install the post using a small amount of lubricant and VERY slowly tightening and reversing it by-hand with a 9mm wrench until it is fully seated.
4. Attach the end of the strap to the ball stud.
5. With the ladder in the raised position, determine the second stud position by angling the strap tightly down to the ladder leg to determine where the Ladder Release Fastener meets the ladder leg; then, loosen it slightly. Mark the position and drill an 1/8" hole.
6. Fold the two holes on the end of the strap over themselves and insert the screw end of the ball stud through the hole.
7. Install the post using a small amount of lubricant and VERY slowly tightening and reversing it by-hand with a 9mm wrench until it is fully seated.



Use:

The Lillipad Beach Ladder is intended for use when in shallow water or beached. When not in use the ladder should be removed and stored by pulling the two pins to pull the ladder from its mounting brackets and spinning the handle out from its Ghost Mount.

