

Installation instructions

Deckhands™ clamp system flat mount model

Tools needed: Drill, 3/16 and 1/4 inch drill bits, 24 inch level, philips head screwdriver and/or powered driver. 1/4 inch drill bit is only for a composite installation.

Read through all instructions before starting. Take a few minutes to think about your deck, railings, posts, yard, sun and shade, lighting, fan, etc. Think about where the sun comes up and goes down – where do you need the shade and be sure to pick a mounting spot that is helpful for your situation.

If you plan on using Deckhands™ clamps with the size adapters for string light or torch poles, etc (adapters not needed for typical umbrella) we highly recommend using an umbrella pole (or similar 1.5 inch diameter pole) in the clamps during installation to be sure the top and bottom are lined up with each other.

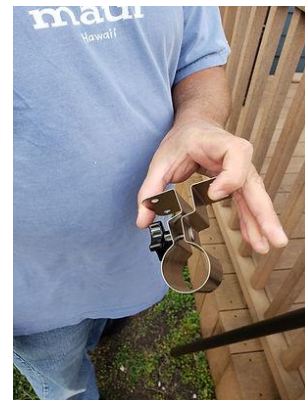
Some deck posts are not straight up and down (vertical) so be sure to use a level to test poles before selecting that post for mounting. Think about where people (especially children and elderly people) walk and be sure your chosen location is not a hazard.

- 1) Hold up assembled umbrella at the height desired and note the bottom location of the pole. The lower Deckhands™ clamp will be installed at a height to accommodate it.



- 2) Disassemble the knob and carriage bolt from both Deckhands™ clamps and peel off the protective PVC coating.

- 3) Reassemble the carriage bolt and knob on both Deckhands™ clamps.



- 4) Insert the pole of the umbrella through both Deckhands™ clamps making sure the orientations are the same. Tighten the knobs moderately. Consider which side you prefer the knobs to face. Many umbrellas have a removable lower pole section. It is recommended to have at least 21.5 inches between the upper and lower Deckhands™ clamps. More is better.



- 5) Hold the pole with the attached Deckhands™ clamps against the support in the desired position. Adjust the positioning of the Deckhands™ clamps as desired. Mark the location of the round holes. Remove the Deckhands™ clamps from the pole.

- 6) Using a 3/16 drill bit, drill deep enough for the mounting screws. Keep the drill level and square to the surface for best results. For composite (read step 7 also) be sure the holes will be in the wood support inside the covering.



- 7) For installation on composite, use the larger 1/4 in drill bit to drill ONLY through the composite portion. Do not drill into the wood support. The composite should not engage the screw threads.

- 8) Carefully screw in the screws in the round holes, do not fully tighten. leave loose enough to move the upper Deckhands™ clamp.

The wood installation model comes with 1-1/4 inch screws.
Composite model comes with 2-inch screws.





- 9) Slide the pole through the attached upper Deckhands™ clamp and replace the lower Deckhands™ clamp on the pole. Adjust to the desired installation position. Use a level to ensure the pole is vertical. Mark the round hole locations on the lower Deckhand™ clamp.

- 10) Drill the 2 holes for the lower Deckhands™ clamp the same as the upper.



- 11) Install the screws the same as the upper. Leave the screws slightly loose.

- 12) Insert the pole through both Deckhands™ clamps and tighten the knobs until snug. Do not over-tighten. Just tight enough to prevent the pole from moving under moderate twisting.



- 13) Mark the hole locations for the slot side of the upper and lower Deckhands™ clamps. The location should be toward the outer edge of the slot. The clamp should be in the tightened position.

- 14) Drill the screw holes the same as was done for the round hole side. If desired the Deckhands™ clamp can be either loosened or removed for the drilling operation to aid in access to the hole location. Do for both upper and lower.



- 15) Install the screws in the slot holes as done for the round holes. Leave slightly loose. Do for both upper and lower.



- 16) Check the pole for vertical using the level while clamped in position and tighten the round hole side screws. Do not over-tighten. A manual screwdriver is recommended.



- 17) Tighten the slot side screws, and optionally back off 1/4 turn at a time until the Deckhands™ clamp slides smoothly when the knob is loosened. A manual screwdriver is recommended.



- 18) Complete the umbrella assembly as needed.



- 19) Loosen both Deckhands™ clamps knobs and adjust umbrella height and rotation as needed keeping in mind the tilting position of the umbrella for optimal shading. Hold the umbrella securely while both Deckhands™ clamp knobs are loose.

Open and close umbrella as needed.

Tilt umbrella as needed.



Close umbrella and secure when not in use.



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