

CONCAVE Spear Awning Assembly & Installation Instructions

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Careful planning and patience are the keys to a safe and successful installation. Please review all steps of these instructions before beginning the assembly and installation of the spear awning. If you are not able to perform this installation and/or do not have the appropriate equipment and tools, we recommend hiring a local handyman or contractor for assistance.

PRE-INSTALLATION NOTES

- Required tools: Ladder, drill, drill socket or socket wrench, screwdriver, level, tape measure, pencil and caulking or weather sealant (if necessary).
- Take inventory of the parts per the packing list to ensure that all pieces are present.
- With varying building construction, mounting anchor fasteners are NOT included. We recommend consulting with a contractor or local hardware store for the best mounting anchor solutions.
- To avoid smudges or blemishes, be sure your hands are clean before handling the spear awning.
- Handle the fabric and frame carefully during the installation process to avoid damaging the cover or frame. (*NOTE: Fabric smudges, punctures and other installation damages are not covered by the warranty.*)
- A second person is recommended to assist with the assembly and installation.

Assembly and Installation Instructions

1. Position center, and level the Head Bar over the opening and identify the required mounting height.



2. Determine and mark the mounting points for the J-Clips on the underside of the awning. (*NOTE: We recommend mounting one J-Clip two inches inward from the frame ends, then equally spaced in between.*)



3. Remove the Head Bar, and then drill pilot and/or anchor holes for mounting the J-Clips. *(NOTE: With varying building construction, mounting anchor fasteners are NOT included. We recommend consulting with a contractor or local hardware store for the best mounting anchor solutions.)*



4. Assemble the Head Bar and Outer Rafters on a table or on the ground. Using a drill socket, attach the Head Bar and Outer Rafters together by driving the self-tapping Tek Screws into the pilot holes. *(NOTE: The rafter pilot holes should be mounted on the inside of the frame work.)*



5. Assemble the Center Rafters and Front Bar. Attach the Front Bar and Outer Rafters together by driving the self-tapping Tek Screws into the pilot holes.



6. **LOOSELY** attach the J-Clips to the wall with the appropriate anchor fasteners just enough to support the fully assembled top frame. Do NOT tighten the anchor bolts; adjustments will be needed.



7. Place the top frame on the loosely mounted J-Clips and hold against the wall in the required location. Level, center and adjust the Head Bar positioning, if necessary. *(NOTE: A second person may be needed to hold the frame.)*



8. While the frame is resting on the clips against the wall, insert the Spear-Tipped Support Arms into the Front Bar. Swing the support arm towards the wall to determine and mark the mounting points for the Support Arm Camel Back Hinges. (NOTE: A second person may be needed to hold the frame.)



9. Remove the frame. Drill holes in the mounting surface for the Support Arm Camel Back Hinges, and then securely fasten to the wall. (NOTE: Use the appropriate caulking of the fasteners to prevent leakage.)



10. With the frame level, centered and the angle is positioned correctly, use a rubber or rawhide mallet to strike the J-Clips firmly into place. Tighten ALL J-Clip anchor bolts to the wall. (NOTE: Use the appropriate caulking of the fasteners to prevent leakage. The J-Clips are pressure-fitted and hammering may or may not be required.)



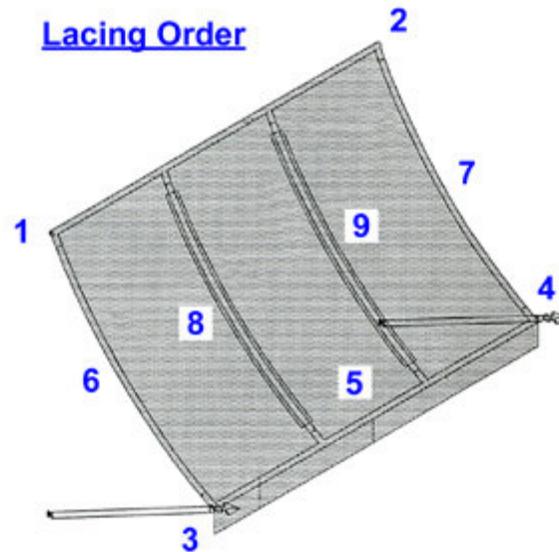
11. Insert the Spear-Tipped Support Arms into the Front Bar and attach to the Camel Back Hinges with the hardware provided.



Lacing Instructions

IMPORTANT NOTES:

- To avoid smudges or blemishes, be sure your hands are clean before handling the fabric.
- **To make the cover taunt and avoid wrinkles in the awning cover while lacing, always pull cord in the direction you are lacing and perpendicular to the Center Rafter; NOT perpendicular to the ground.**
- Minor adjustments to awning cover position will be needed throughout the lacing process.
- Do NOT trim excess Lace Cords or Welt Tubing until the awning cover is completely installed.
- Refer to the diagram below for Lacing Order.



1. Slide the Awning Welting Tube into the Awning Rail on the Head Bar and carefully pull through. (*NOTE: Do NOT trim excess Welt Tube until after the awning is completely installed; some cover re-alignment may be necessary.*)



2. Center the fabric cover over the frame and temporarily fasten the four corners.
 - First, fasten the two corners closest to the wall (#1 and #2).
 - Then the two corners at the Front Bar (#3 and #4).
 - *NOTE: We recommend cutting short pieces of the cord provided or using zip-ties.*



- Loosely lace the Front Bar (**Lacing Order #5**) starting from either corner keeping the rafter and lace pocket lines aligned. Then tighten (NOT OVER TIGHTEN) the cover allowing a 2-inch gap between the fabric and the rafters. This slack is needed to pull the fabric cover to the rafters and lace. (*NOTE: Tie-off the lace cord leaving some excess cord for minor adjustments later, if necessary.*) Remove the temporary Front Bar laces (**#3 and #4**).
- Loosely lace both Outer Rafters (**#6 and #7**) starting from the wall moving towards the Front Bar, and then tighten to retain the cover alignment. (*NOTE: Tie-off the lace cord leaving some excess cord for minor adjustments later, if necessary.*)
- Lace the Center Rafters (**#8 and #9**) starting from the wall moving towards the Front Bar. (*NOTE: To make the cover taut and prevent wrinkles while lacing, pull the lace cord perpendicular to the rafter along its curve and NOT perpendicular to the ground.*)
- Trim the excess Lace Cord and Welt Tubing when the awning cover is completely installed as required.



Thank you for purchasing a spear awning from Awnings.com, a division of Eide Industries, Inc. If you have any questions, please call us at (562) 402-8335 ext. 278.