

IMPORTANT! READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

INSPECT UNIT FOR DAMAGE, CORRECT SIZE, TYPE, AND CORRECT INSTALLATION INFORMATION FOR YOUR APPLICATION BEFORE REMOVING THE EXISTING WINDOW. IF THERE IS A PROBLEM WITH ANY OF THESE AREAS, CONTACT YOUR SIMONTON DISTRIBUTOR BEFORE INSTALLING. SIMONTON ACCEPTS NO LIABILITY FOR DAMAGES BY OTHERS AND MUST BE REPORTED IMMEDIATELY.

CAUTION: Some areas that are designated as high wind or wind-borne debris areas may require additional or special anchorage in order to comply with local and state building codes. Please consult your local Code Official for certified instructions regarding the installation of this product.

Follow your local building codes, customs and building practices for additional installation requirements. The quality of installation can and will affect the performance of this product. Flashing applications will vary greatly with respect to the wall type and region. The manufacturer is not responsible for air or water leakage above, under, or around the window unit. These instructions are intended as a basic guide for installing replacement windows. If you require more in-depth instructions, that cover a specific window or door style or installing windows in a new construction application, please contact Simonton Windows & Doors by Ply Gem at 1-800-SIMONTON (800-746-6686) or visit www.simonton.com/installation.

TOOLS NEEDED

- | | | |
|----------------------------------|---------------------------------|---|
| • Tape Measure | • Small Rubber Mallet | • 3/32" Drill Bit (masonry bit when applicable) |
| • 4' Level | • Pry Bar | • Caulk Gun & Color-matched Silicone Caulk (structural sealant when applicable) |
| • #2 Phillips Bit (4" in length) | • Cordless Screw Gun | |
| • #3 Phillips Screwdriver | • 1/8" Drill Bit (4" in length) | |

- Begin by measuring the window to be replaced. Measure at three locations for width: the top, middle and bottom of the window. Measure at three locations for height: the right, center and left of the window. Use the smallest of these measurements to determine the width and height—additional reductions may be required for the window to be installed plum and level. Do not remove the old window until the dimensions of the new window have been verified to fit the opening properly and you have all the accessories needed.
 - Check opening for square by measuring diagonally. If the unit is out of square additional cut backs on the window size may be required.

Accessories are available, but not required, from Simonton to ease the installation and finishing of the new window. When using exterior accessories such as a sill extender or snap on flange, sealant must be applied in the accessory groove of the frame or in the accessory piece itself prior to application in order to prevent leaks. It is the installer's responsibility to make sure that any attached accessory joint is weatherproof. For more information on accessories and their applications contact your distributor.

- If local codes permit the removal of the existing window (including the frame), the proper installation procedures according to AAMA standards must be followed to prevent future leaking problems. Remove the old window. Clean and prepare the opening. Install flashing to provide a water-resistant installation and to satisfy requirements of the local building authorities based on the type of wall. Note that the Manufacturer is not responsible for the specification, selection and/or installation of any required flashing, waterproofing, sealant, etc. as necessary to provide a waterproof installation and/or to satisfy the requirements of the local building authorities, and the Manufacturer recommends that the specification, selection and installation of these materials be coordinated with the type of wall construction provided. For flashing installation recommendations, consult the applicable AAMA and ASTM standards and guidelines. The window is to be properly integrated into the weathering system of the wall and is to provide a water-resistant installation. Level the sill as necessary. It is important to remember that the replacement window must fit into the opening plumb, level and square, even though the opening may not be any of these. If the window is not plumb, level and square the following problems may occur:

- Double/Single Hung and Slider sash may be difficult or impossible to remove.
- Casement sash may not operate properly due to excessive drag on the sill.
- The sash pivot bar on Double Hung windows could bend and cause the sash to become inoperative. The overlapping and interlocking meeting rail on Double/Single Hung and Slider windows may not perform properly - allowing air and water infiltration, even if the sash is locked.

- The weatherstripping may not seal properly, allowing air and water infiltration.
 - The partial-ventilation latch on Slider windows may drag on the center leg of the sill or be inoperative.
 - The locking system may not engage properly.
- When installing in a slope sill application, place wood blocks along the existing window sill. The blocks will help support the window and keep the sill level. Also, wrap the entire perimeter of the window with insulation. If the gaps between the unit and the opening are less than 1/8" the unit may not require insulation. When this occurs Simonton recommends an exterior and interior perimeter seal to create a dead air space.

NOTE: Use of low expansion spray foam is acceptable as long as it meets AAMA 812 specifications.

- Attach the sill extender (if necessary) to the bottom of the sill and trim it to fit in the opening. Be careful not to cut the sill extender too tight to prevent deflection of the sill. Sill extender should not be used as support.
- Tilt the window up into the opening with the sash closed and locked. Set it down on the wood blocks placed along the window sill.
- If supplied, tighten the adjustment devices (alignment clips, jamb adjusters, etc.) and shim with wood blocks to hold the unit secure while checking it for plumb, level, and square. Be careful not to over tighten jamb adjusters or screws to avoid twisting or deflection of jambs. If your windows do not have jamb adjusters then you will have to supply your own shims.

- To check plumb: Place a level vertically on both the interior and face of the left and right jambs. If the bubble indicator is centered, the unit is plumb. (Fig. A)
- To check level: Place a level along the sill. If the bubble indicator is centered, the unit is level. (Fig. B)
- To check square: Measure from the top left corner of the frame to bottom right corner and from the top right to bottom left. If the measurements are equal, the window is square. (Fig. C) You can also check the squareness by closing the sash to the point where it just meets the head or sill. If both sides of the sash meet the head or sill at the same time, the window is square.

Check plumb

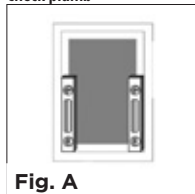


Fig. A

Check level

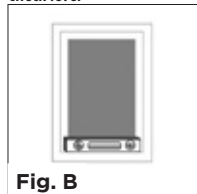


Fig. B

Check square

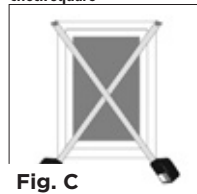


Fig. C

- Check where the sash and frame meet to confirm the weatherstripping is sealing properly in all areas. Inspect all weatherstripping to ensure it has not pulled out of the receiver channel. To reinstall it, pull the weatherstripping completely out of the channel then reinsert it by sliding the spline into the receiver channel. Check for an even reveal (gap) between the sash and the frame.
- Once the window is plumb, level and square, install installation screws into the prefabricated installation holes in the jambs. Shims should be used to establish spacing at anchoring points and should be penetrated by the installation screw. **DO NOT OVER TIGHTEN THE SCREWS,** as this could cause the frame to bow. Recheck the sash for proper operation once the screws have been installed. **Caulk and cover the installation holes when necessary.** If the windows do not have prefabricated holes, pre-drilling and countersinking the screws will be required. Cover the hole with the appropriate sized plug button. Buttons can be obtained from your dealer or supplier.

NOTE: When Installing Left or Right Hinge Casements:

- Place installation screws in the two pre-drilled holes in the jamb on the hinge side of the window.
- Replace the last screw in the hinge track closest to the center of the in both top and bottom hinge tracks with installation screws. (Fig. D) Prior to replacing the screw in the sill, fill the hole with sealant before running the installation screw into the hole. Seal the of the screw to be sure it remains watertight
- Replace one screw in each tie bar guide on the lock side of the window with installation screws. (Fig. E)
- After the window is secured, recheck the sash operation and the weather seals.

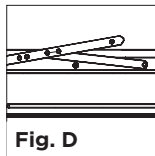


Fig. D

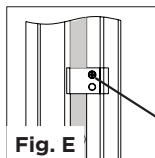


Fig. E

- Left and right hinge Casements have an adjustment on the upper and lower hinge tracks which allows you to move the sash left and right. This adjustment can be used to help square the sash within the frame to correct uneven reveals between sash and frame or to address interference issues with the locking hardware. A slim line adjustment wrench is available from Simonton or a standard 3/8" open end wrench can be used but will require that the hinge arms be removed from the adjustment posts in order to access the adjustment cam. A 7/64" hex head wrench can also be used on certain hardware. (Fig. F)

NOTE: When Installing Awning Windows

- Replace one of the center screws in the operator assembly with an installation screw. (Fig. G)
- On both left and right hinge tracks, replace the second screw from the top and the closest screw to the bottom with installation screws. (Fig. H)
- Install installation screws in the pre-drilled installation holes in the head. After the window is secured, recheck the sash operation and weather seals.

NOTE: Products with an Exterior Color Coating

When installing a coated/painted exterior product, mounting screws should be placed 3" from the corners and every 12"-16" on jambs. Also mounting screws should be placed 3" from the corners and every 12"-16" on the head. Place shims behind the screws to support the frame against bowing or distorting.

- If installing large windows or windows with high wind load requirements, install interior and exterior blind stops along the jambs, head and sill (if not already present). The blind stops must be a minimum of 3/4" by 1/2".
- If installing a window with a stucco flange over an existing frame, follow the preceding instructions. Before placing the window into the opening for the final time, make sure it is plumb, level and square and then place a heavy layer of caulking along the existing aluminum frame so the new window will make contact and properly seal. Leave two small gaps in the caulking at either end of the bottom edge of the stucco flange. Follow AAMA retrofit guidelines for jump frames.
- Finish off the exterior of the window. Seal the entire perimeter of the window with the proper grade of sealant. Trim and cap off where necessary. Do not cover weeps. Use of expanding foam is acceptable as long as it meets AAMA 812 specifications.
- Make certain sash open, close and lock properly. Operable slider sash should lift out freely. Finish off the interior of the window.
- Remember: The homeowner is the final inspector. Thoroughly clean the window and remove all debris from the job site. Be sure the homeowner is familiar with the proper operation, features and documentation of the window. (For example, the NFRC Label & Warranty)

CARE AND CLEANING

Do not paint weatherstripping or any vinyl parts of this unit for any reason. Painting vinyl will render null and void any remedies available under the Limited Warranty for this product. Do not use abrasive cleaners, organic solvents, adhesive removers or other aggressive ingredients when cleaning vinyl surfaces as these may affect the surface appearance. For complete care and cleaning guidelines visit simonton.com/maintenance.

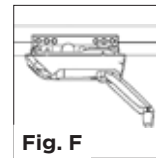


Fig. F

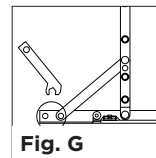


Fig. G

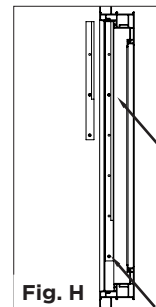


Fig. H

