

KOLBE[®]

WINDOWS & DOORS

Gas Strut

AWNING WINDOWS

SUPPLEMENTARY INSTRUCTION

**BEFORE BEGINNING, READ THE FULL
INSTALLATION INSTRUCTION BOOKLET ALONG
WITH THIS SUPPLEMENT TO PROPERLY INSTALL
THE GAS STRUT AWNING WINDOW(S).**

CAUTION

**DO NOT OPEN THE SASH UNTIL THE UNIT IS SECURELY ATTACHED TO THE
ROUGH OPENING. ATTACH THE UNIT TO THE ROUGH OPENING AS DESCRIBED
IN THE FOLLOWING PAGES OF THIS SUPPLEMENTARY INSTRUCTION.**

INTRODUCTION

This supplementary instruction provides additional steps required for installing gas strut awning windows. Before beginning, read the full installation instruction booklet along with this supplement to properly install the gas strut awning window(s).

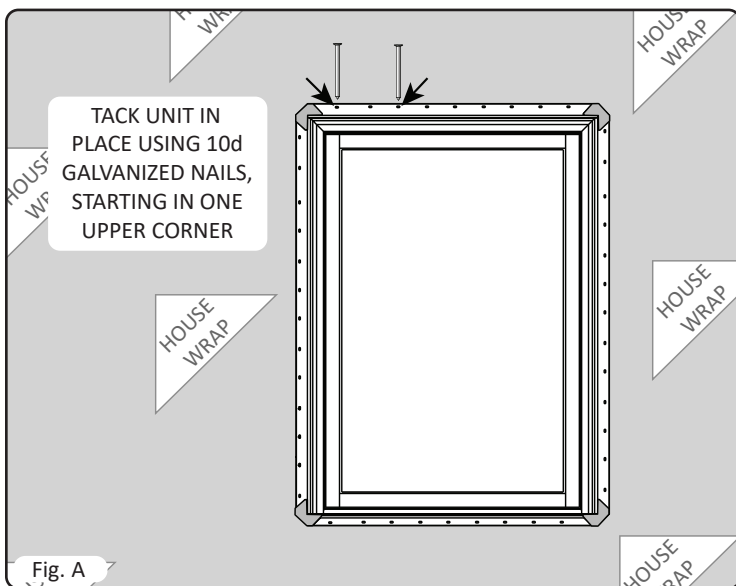
IMPORTANT

The screw-through-frame method must be used to install these units. Attaching the unit to the rough opening using only the nailing fin is not an adequate installation method. When fastening through the frame, use the pre-drilled holes in the jambs as a guide for screw placement. The nailing fin is intended only to help secure the unit temporarily in the rough opening and to maintain proper level and plumb before completing the permanent screw-through-frame attachment.

TACK AND HOLD THE UNIT TO THE ROUGH OPENING

Using the Nail Fin to Tack and Hold the Unit into the Rough Opening, Assisting with Screw Through The Frame Installation (Fig. A):

1. Nail through a hole in one of the upper corners, to temporarily tack the unit in place, use 1-1/2" (38mm) or longer galvanized 10d roofing nails. Shim as necessary.
2. Double-check to ensure the sill is level and straight.
3. Plumb the exterior side jambs and level the exterior head jamb.
4. Adjust shims as necessary, to make the unit level and straight.
5. Next, fasten into the first pre-punched hole on the opposite corner, then in every other hole along the head, sill, and sides.
6. Ensure that the head of the fastener does not compress the nailing fin, causing it to warp.
7. Once again, verify that the unit is square, level and straight.



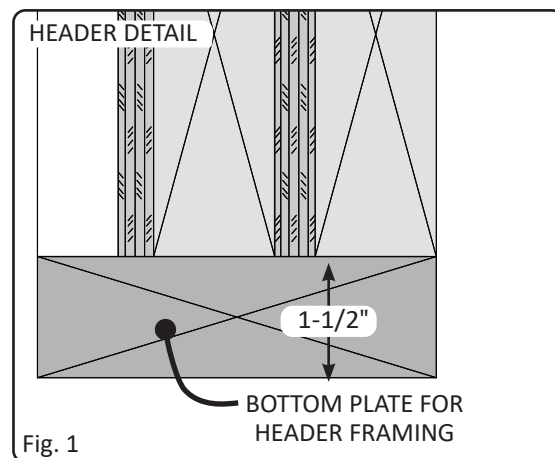
PRELIMINARY PREPARATION

⚠ CAUTION

DO NOT OPEN THE SASH UNTIL THE UNIT IS SECURELY ATTACHED TO THE ROUGH OPENING. ATTACH THE UNIT TO THE ROUGH OPENING AS DESCRIBED IN THE FOLLOWING PAGES OF THIS SUPPLEMENTARY INSTRUCTION.

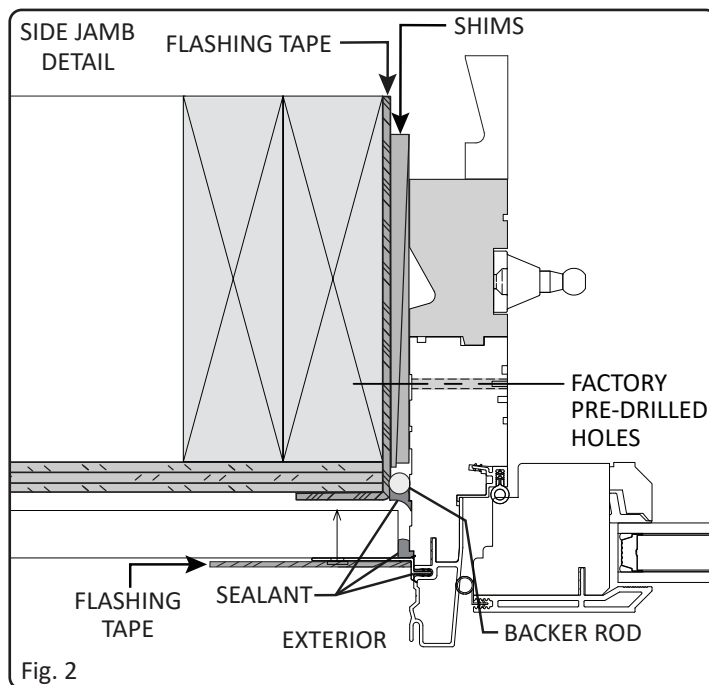
ADDITIONAL ROUGH OPENING REQUIREMENTS

1. As the head jamb and header carry the weight of the sash, the material/lumber quality of the rough opening and the fasteners used must be structurally adequate for the weight of the sash and the design load requirements. A minimum of 1-1/2" (38mm) wood framing thickness is required across the full jamb depth (excluding drywall) at the bottom of the header. Refer to the bottom plate for the header framing in **(Fig. 1)**.
2. Deflection caused by variable loads—such as live, wind, or snow—over the entire supported span must not exceed 1/8" (3mm). This limit applies after accounting for permanent loads and the natural settling of the beam, which may vary depending on the material/lumber.

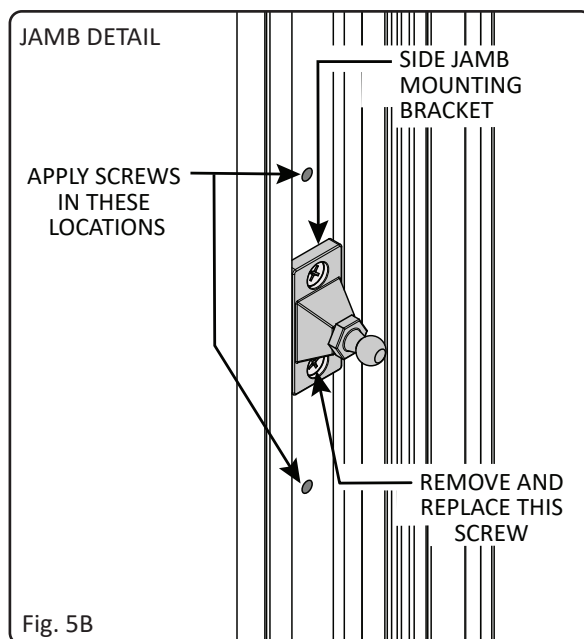
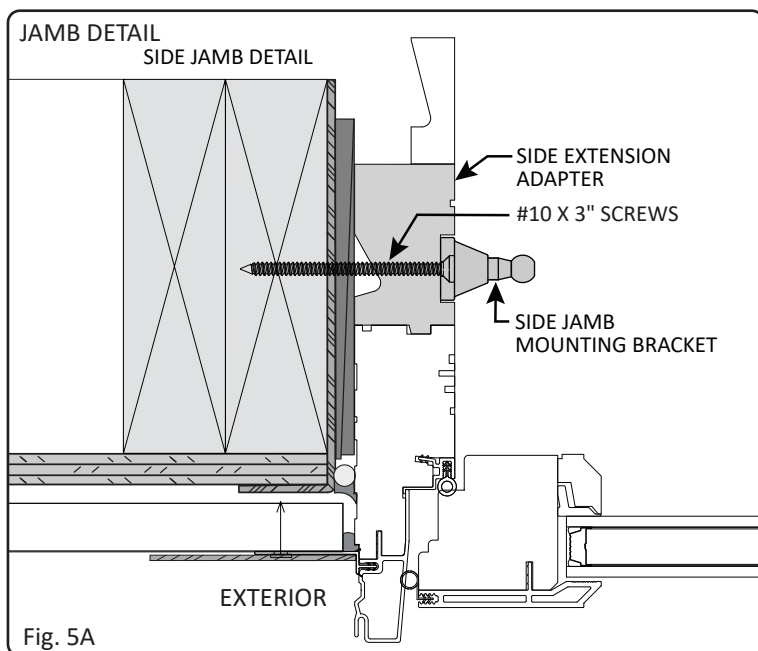
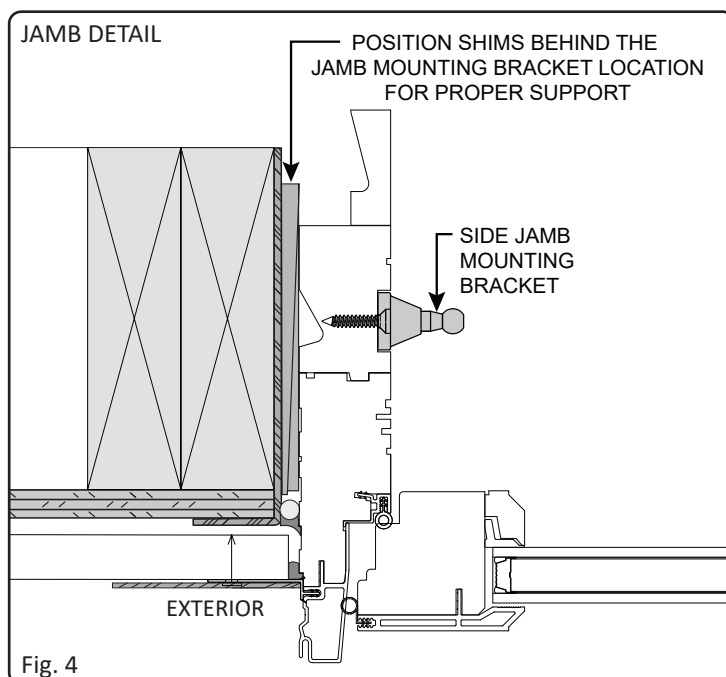
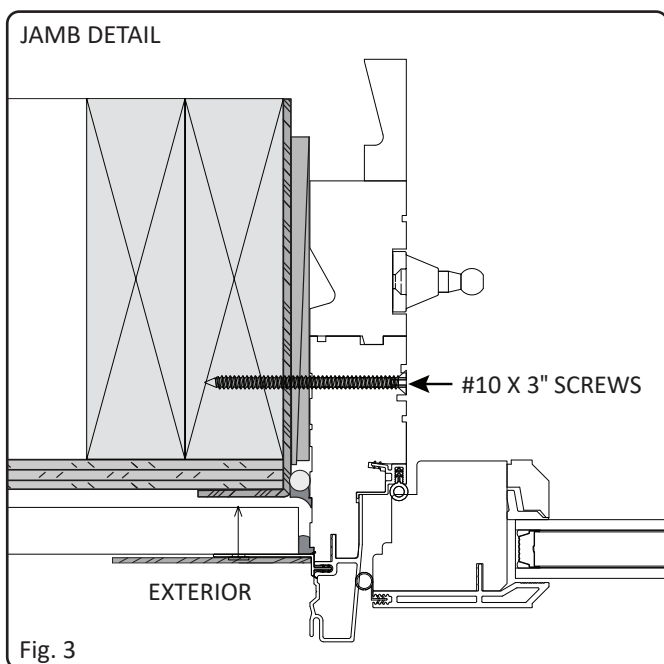


REPLACEMENT STEPS FOR: TECHNIQUE #2: SCREW THROUGH THE FRAME INSTALLATION

1. This section **replaces** Technique #2: *Screw Through the Frame* in the standard full installation instruction booklet.
2. At each pre-drilled hole location place shims in the gap between the window jambs and the rough opening **(Fig. 2)**.



3. In each pre-drilled hole (**Fig. 2**), install #10 x 3" flat head screws to secure the jambs and shims to the rough opening framing (**Fig. 3**).
Repeat this process on all four sides of the frame (**Fig. 3**).
4. Place shims between the rough opening and the side jamb and extension adapter directly behind the side jamb mounting bracket location for proper support of the gas struts (**Fig. 4**).
5. Secure the side jamb mounting brackets and side extension adapters to the rough opening:
 - Fasten the adapter to each side of the rough opening by installing a #10 x 3 inch flat head screw in each predrilled hole on both sides of the side jamb mounting brackets. Note: Units with frame heights under 38 inches have only the upper screw hole (**Fig. 5B**).
 - Remove the lower screw from each side jamb gas strut mounting bracket and replace it with a #10 x 3 inch flat head screw.
 - Drive the screw through the bracket, jamb, shims, and into the rough opening framing, do not drive the screw too deep.
 - Replace the screw in one bracket before moving to the second bracket (**Fig's 5A & 5B**).



6. **(Fig. 6)** Open the sash to access the screws in the hinge frame leaves at the head jamb.

Note: Ensure shims are placed between the head jamb and the header at each hinge location.

- Remove one screw from the frame leaf of each hinge. Replace it with a #8 x 2" flat head screw. Fasten through the hinge leaf, window head jamb, and shims into the header assembly bottom plate.

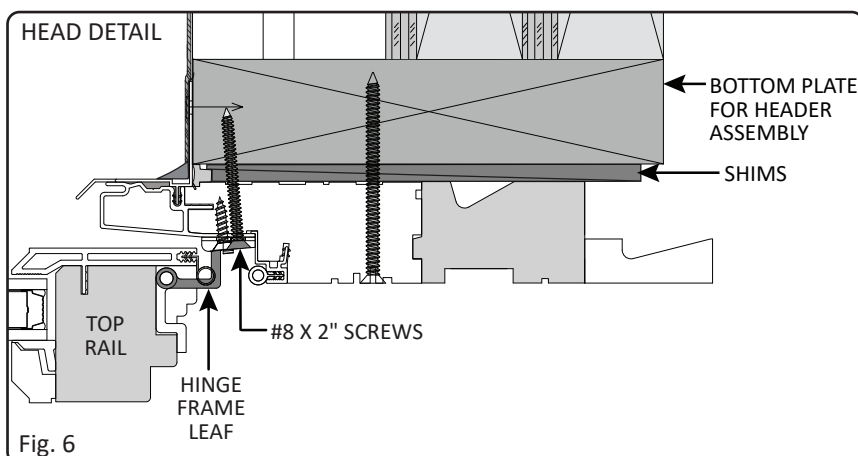


Fig. 6

7. **(Fig. 7)** Install the stops on the head and sill. Align the locator tabs on the stops with the corresponding grooves in the jambs to ensure proper alignment.

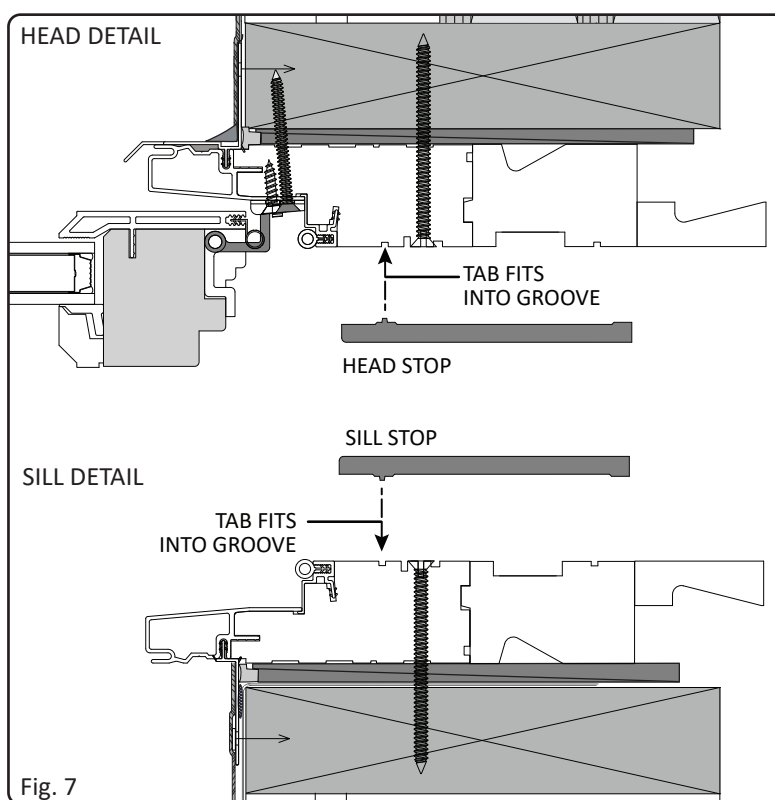


Fig. 7

8. **(Fig 8A & 8B)** Using a finish nailing gun, fasten the stops with 21 gauge x 1-1/8" pin nails (or equivalent), located 3/4" from each edge of the stop. Space the nails 1" to 2" from each end and 8"- 10" on-center thereafter.

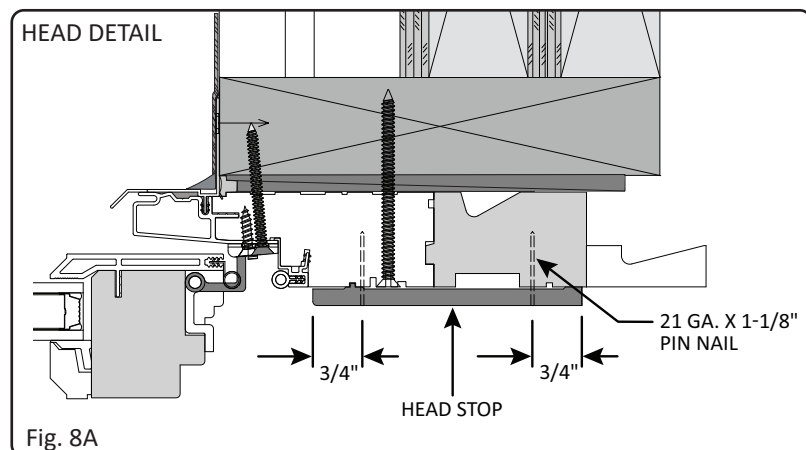


Fig. 8A

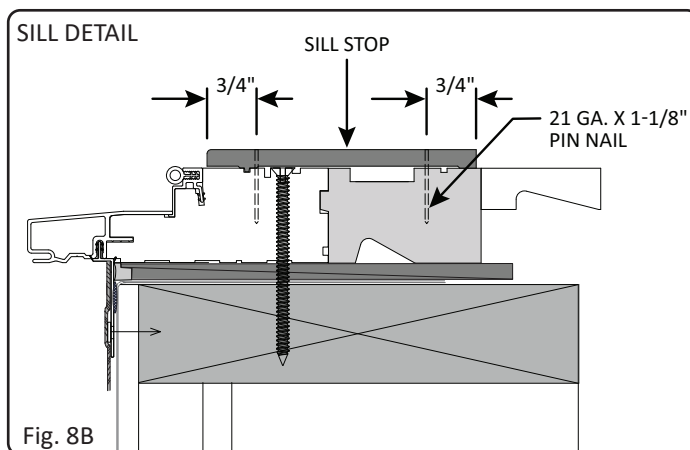
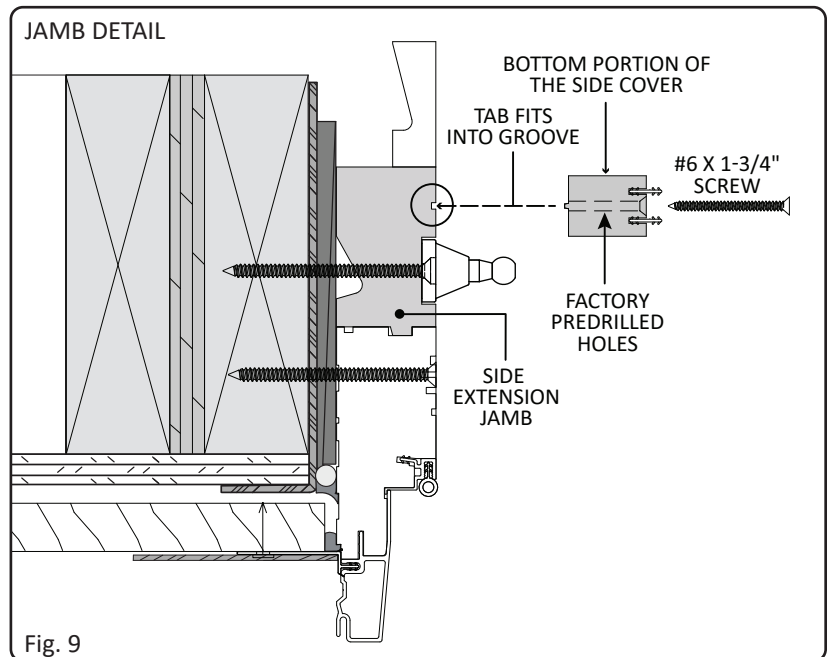


Fig. 8B

9. **(Fig. 9)** Align the bottom portion of each side cover on the side extension adapter:

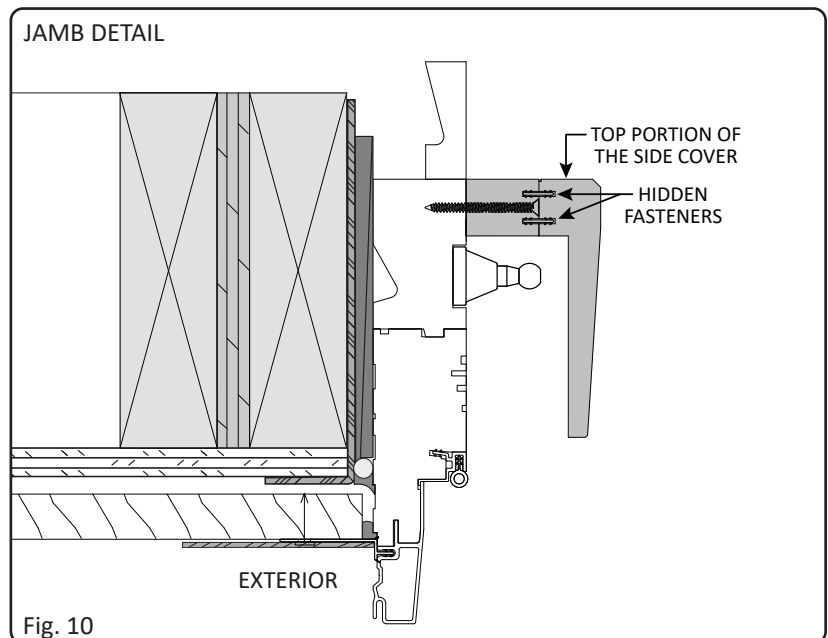
Insert the locator tabs on the cover into the corresponding grooves on the side extension jamb. Ensure the cover is properly seated and aligned.

- Secure the side cover:
Use #6 x 1-3/4" flat head screws.
Install screws through the pre-drilled holes in the side cover into the adapter.



10. **(Fig. 10)** Install the top portion of the side jamb covers:

- Position the top portion of the side cover onto the installed bottom side cover.
- Use the hidden fasteners in the bottom side cover and the two grooves in the top side cover as alignment guides.
- Press the top portion downward until it contacts the bottom portion and is fully seated and secured. Verify both parts are firmly connected.



Contact your Kolbe window and door supplier or visit us at www.kolbewindows.com for further information.

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