INSTALLATION INSTRUCTION MANUAL

2-LITE VINYL CLAD PATIO DOOR UNASSEMBLED (AERIS™)



**** Find QR Codes inside for additional information, helpful installation tips, and videos.***

Contact the local recycling waste management center for waste disposal in the area. Always check local waste requirements and carefully dispose of waste in accordance with Federal and other regulations.

Homes built before 1978 may contain lead paint. All replacement installations must comply with the U.S. EPA's Lead-Based Paint Renovation, Repair, and Painting Program (RRP Rule). Read more about the RRP Rule and lead-safe work practices, on the U.S. EPA's website at: www.epa.gov/lead

ProVia®
THE PROFESSIONAL WAY

GETTING STARTED

MATERIALS YOU WILL NEED

- High Quality Silicone Caulking in accordance with ASTM C920, Class 25 & Caulking Gun
- AAMA approved Low-Expanding Window Insulation Foam in accordance with ASTM C1620
- 6" or 9" Adhesive Flashing Tape in accordance with ASTM D-779 (new construction application)
- Shims

REMEMBER: ALWAYS USE THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

Read these instructions carefully before starting installation. Product warranty does not cover damages resulting from improper installation.

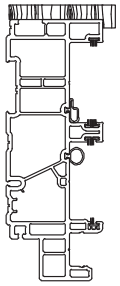
IMPORTANT NOTES BEFORE YOU BEGIN

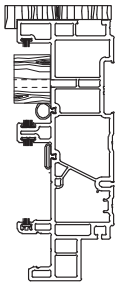
- Inspect your package(s) for any visible damage to the product. In addition, double check your paperwork with label on product(s) and verify all information is a match. Open packaging to confirm style, color and that order was shipped complete. Double check size of new unit by comparing it for fit to opening.
- If damages or irregularities are found, please scan the product's packaging QR Code label using your phone's QR Code Scanner to access ProVia's **After Sale Product Support** to enter a request and post pictures/videos to the order, or you can call the Customer Support Team at 1-800-669-4711.
- If you have ordered optional items, verify that they are included in packaging contents. This includes checking for multiple packages (For example, 1 of 2 and 2 of 2).
- **Do not remove existing patio unit from opening until the frame is fully assembled and all needed components are at the site and frame size matches the opening.**

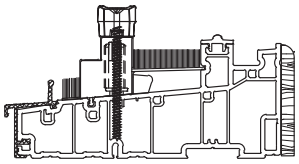
AERIS™ 2-LITE PATIO DOOR ASSEMBLY CONTENTS

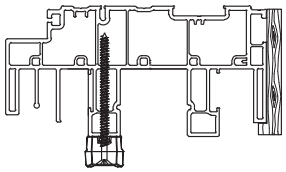
NOTE: Please refer to chart below for the required contents of the Aeris patio door installation. Aeris patio frame will arrive from the factory assembled with a few pre-assembled components to allow for proper handing of the patio unit as ordered.

Main Frame, Factory Assembled
(Sub-assemblies are shown)


(1) Active Jamb Assembly


(1) Fixed Jamb Assembly

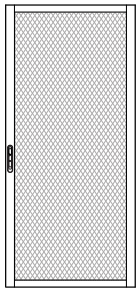

(1) Sill Assembly with Sill Dust Cover factory installed


(1) Header Assembly

Sash and Screen


(1) Active Sash


(1) Fixed Sash


(1) Screen

Accessory Parts

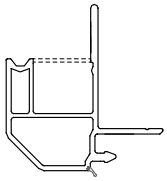
(1) Interior Wood Jamb Cover *(2" x 80")*

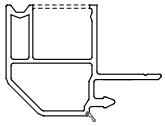
(1) Exterior Jamb Cover *(2" x 80")*


(1) Handle Set

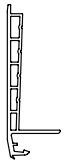

(1) Mortise Handle Set Keeper *(Taped to Active Sash)*

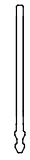
Optional Installation Accessories
(Refer to separate installation instruction if applicable)

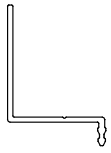

5907 Brickmold w/ Nail Fin

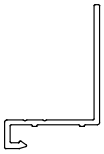

5917 Brickmold


5927 Frame Adapter


5938 Stucco Flange


5940 *Nail Fin (Partial Jamb)*

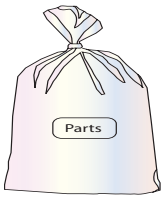

5945 Nail Fin *(Full Jamb)*


5956 Nail Fin

AERIS™ ASSEMBLY INSTALLATION PACK CONTENTS

NOTE: The individual installation packs are labeled and numbered. Please refer to the chart below for the appropriate pack contents and for the installation location.

2-Lite Aeris™ Patio Door Installation Pack
S-DH-040WXS-CC



(1) The individual installation packs are labeled and numbered and are all packed inside one main bag. Open up the main parts bag and refer to the appropriate pack contents for each installation location. Individual pack content information to follow.

Installation Pack #2
S-DH-020S-CC
(Jambs & Header)



(16) ⅜" Hole Plugs (Color Matched), Part #: S-HG-698-CC



(16) #8 x 3" Phillips Square Screws, Part #: S-HS-350-00



(1) #2 Phillips Square Combo Bit, Part #: S-ST-347

**NOTE, patio units ordered in WHITE, BEIGE, SANDSTONE , or BLACK will receive this pack as noted. ALL OTHER COLORS will receive this pack as part #: S-DH-020S-00. The color matched hole plugs will not be included but packaged separately and located in the hardware box.*

Installation Pack #3
S-DH-023S-WX-CC
(Fixed Sash)

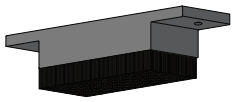


(5) Foam Plugs, Part #: S-HG-521-01



(4) #8 x 1" Phillips Pan Head Screws, Part #: S-HS-345-00

Installation Pack #4
S-DH-024S
(Header Block)

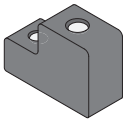


(1) Head Weatherstrip Block, Part #: S-HG-524-13



(2) #8 x 1¼" Phillips Pan Head Screws, Part #: S-HS-342-13

Installation Pack #5
S-DH-025S
(Header Bumper)



(1) Sash Stopper, Part #: S-HG-532-13

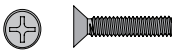


(2) #8 x 1¼" Phillips Pan Head Screws, Part #: S-HS-342-13

Installation Pack #10
S-DH-010S
(Screen)

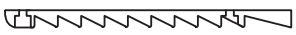


Screen Wheel Brackets,
(1) Part #: S-HG-366P-00 (Right Hand)
(1) Part #: S-HG-367P-00 (Left Hand)



(2) #6-32 x ⅞" Phillips Flat Head Screws, Part #: S-HS-360-00

AccuVent™ Bolt Plate Kit
S-HG-573S-CC
(AccuVent)



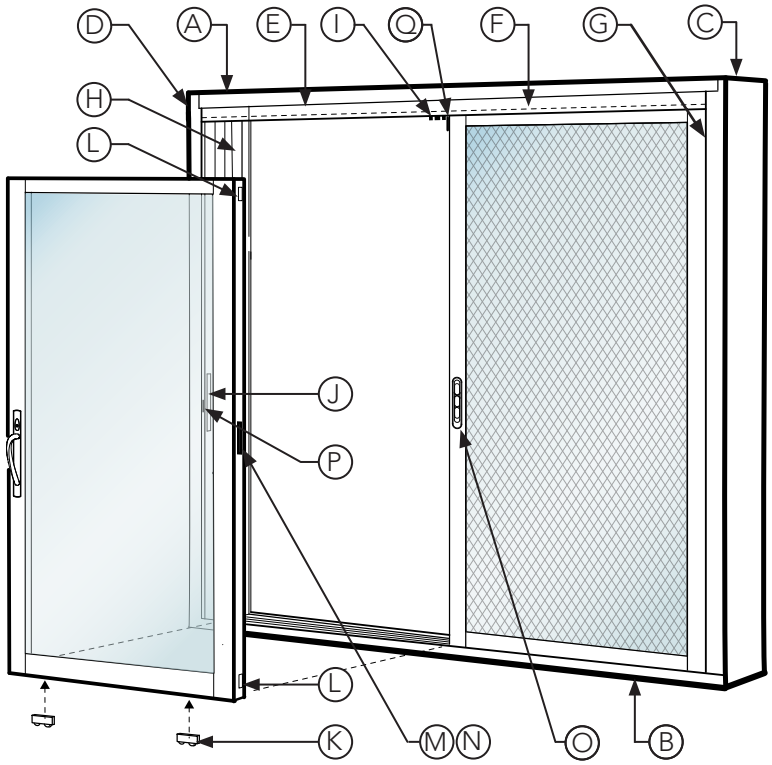
(1) AccuVent Bolt Plate (Color Matched), Part #: S-HG-573-CC



(2) #8 x 1 Combo Vinyl Hold (Color Matched), Part #: S-HS-340-CC

PRODUCT PART # IDENTIFICATION AND REFERENCE

NOTE: Parts listed may be a subassembly or part of a subassembly.



FRAME PARTS:

A. Header - S-VE-7002-CC
B. Sill - S-VE-7000-CC
C. RH Jamb - S-VE-7004R-CC
D. LH Jamb - S-VE-7004L-CC
E. Outer Cover - S-AE-6206-CC
(See page 18 for Detail)
F. Common Screen Inner Track - S-AE-6207-32
(See page 18 for Detail)
G. Exterior Jamb Cover - S-VE-0714-CC (Hidden)
H. Interior Wood Jamb Cover - S-WO-7010__-00
I. AccuVent™ Bolt Plate - S-HG-573S-CC
(See page 17 for Detail)

SASH PARTS - (1) Fixed, (1) Active:

J. Multi-Pt Lock/Keeper - S-DH-072
(See page 13 & 15 for Details)
K. Tandem Wheel Patio Door - S-HG-355-00
L. Wood Clad Sliding Cap - S-HG-594-CC
M. AccuVent Latch Trim Plate - S-HG-570-CC
*(See page 17 for Detail) (*See note this page)*
N. AccuVent Latch - S-HG-571-00
*(See page 17 for Detail) (*See note this page)*

SCREEN PARTS:

O. LH Common Patio Screen Handle - S-DH-071
(RH Common Patio Screen Handle - S-DH-068)
P. Common Screen Keeper - S-DH-069
Q. LH Wheel Bracket Assembly - S-HG-367P-00
*(See page 18 for Detail) (**See note this page)*
(RH Wheel Bracket Assembly - S-HG-366P-00 hidden on opposite side of screen, ***See note this page*)

NOTES:

* For re-order of all AccuVent™ parts, please order the AccuVent Latch Repair Kit, S-HG-571S-CC.

**For re-order of Screen Wheel Bracket Assembly, please order Pack #10, S-DH-010S.

***For assistance on all re-orders, please call our Customer Support Team at 1-800-669-4711.

IMPORTANT INFORMATION

Aeris™ patio frame will arrive from the factory assembled with a few pre-assembled components to allow for proper handing of the patio unit as ordered.

ProVia understands there are various methods and conditions affecting the installation of a patio unit. We feel the most critical steps to follow are securing and shimming as instructed in this document.

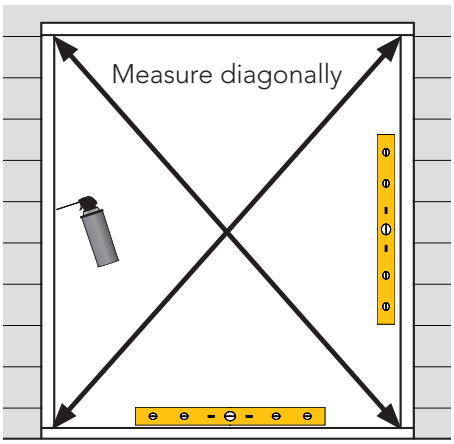
FIELD MULLED PATIO UNIT:
Refer to Section P, Field Mulling Units, page 20. Units must be mulled together before setting into the opening.

INSTALLATION ACCESSORY:
If the patio unit is ordered with an installation accessory, refer to the included document, 'Installation Instruction Vinyl Patio Door Installation Accessories and New Construction Flashing'. The QR code for this instruction can also be found at the end of this instruction document. Nail fin or installation accessory must be installed on patio unit before installing into the opening.

A. PREPARATION

OPENING - EXTERIOR VIEW

Fill any and all voids with low expanding foam

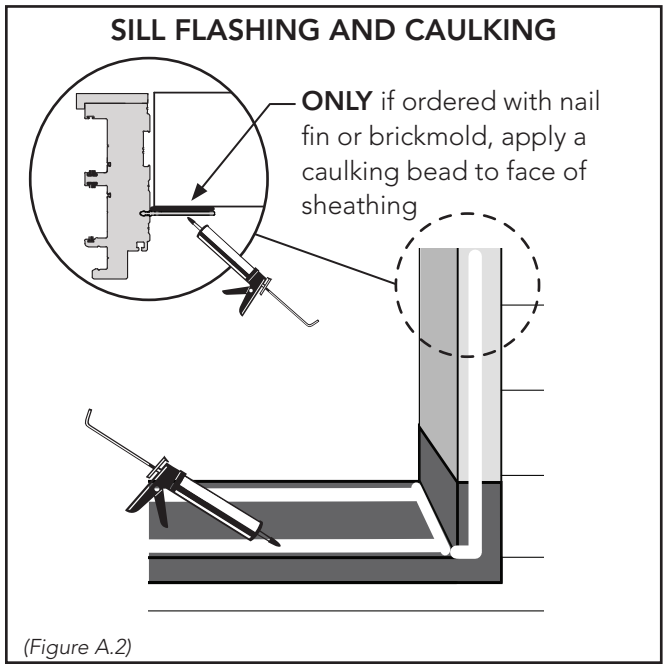


Check sill for level, flat and for proper structural support

(Figure A.1)

1. Clean opening of dirt, debris, and obstructions.
2. Fill all voids with AAMA approved low-expanding window insulation foam that complies with ASTM C1620. *(Figure A.1)*
3. Check for level and flat sill. Verify the structural integrity of the opening to ensure a proper installation. If sill is not straight and level, place wood shims between sub-floor and sill to correct minor leveling adjustments. *(Figure A.1)*
4. Check opening for square. Measure diagonally from corner to corner each side to determine. *(Figure A.1)*
5. Verify opening width and height. Opening should be large enough to accommodate patio door with shims and insulation. *Recommended opening is ¼" - ½" greater per side (or ½" - 1" greater in total width) and ¼" - ½" greater than in total height.*

A. PREPARATION *(CONTINUED)*



(Figure A.2)

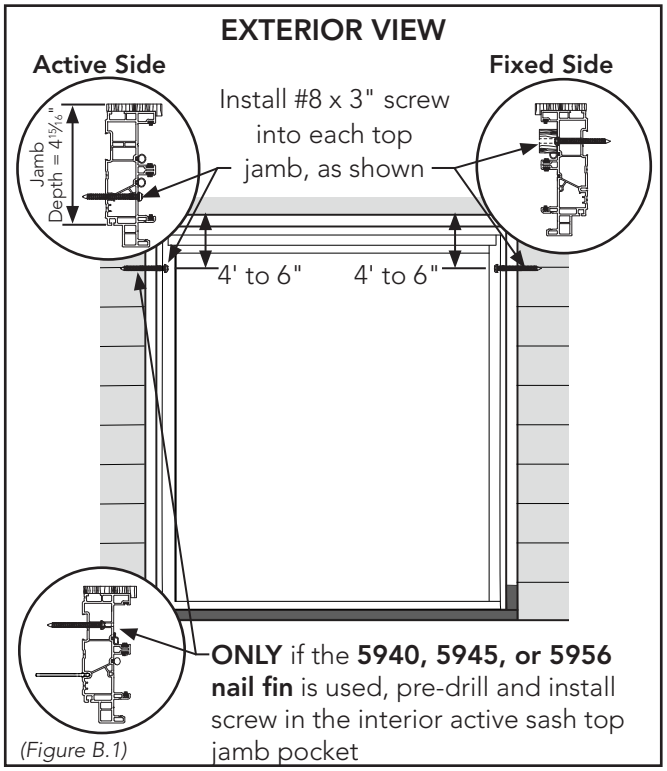
6. Apply flashing to sill opening in accordance with local building codes and best practices. *(Figure A.2)*

7. Replace drip cap at the top of opening if necessary.

8. Apply (2) generous beads of premium caulking compound to sill flashing for the full LENGTH of opening. At each end of opening, apply (1) caulking bead along the WIDTH of sill. *(Fig. A.2)*

9. If nail fin or brickmold option is used, apply a caulking bead to each vertical and header face of exterior sheathing to seal. To complete seal, apply bead of caulk from sill to exterior sheathing, as shown. *(Figure A.2)*

B. INSTALL FRAME



(Figure B.1)

1. Remove wood shipping support frame from the factory assembled vinyl patio frame.

2. Place assembled patio frame into the opening, sill first. Center and square frame in opening. Leave enough space for proper shimming and insulation. **NOTE:** Aeris™ Jamb Depth = 4 15/16".

3. Install a #8" x 3" installation screw (Pack #2) into the top **exterior** jamb pocket of the active sash side, minimum 4' to 6" down from top corner. Locate screw on score line. **DO NOT over tighten screw causing frame to pull!**

   NOTE: If using the **5940, 5945, or 5956 nail fin**, the active sash side must be secured through the **interior** jamb pocket. Pre-drill a 3/8" hole and install screw into the top interior jamb pocket, securing to second vinyl wall of frame. *(Fig. B.1)*

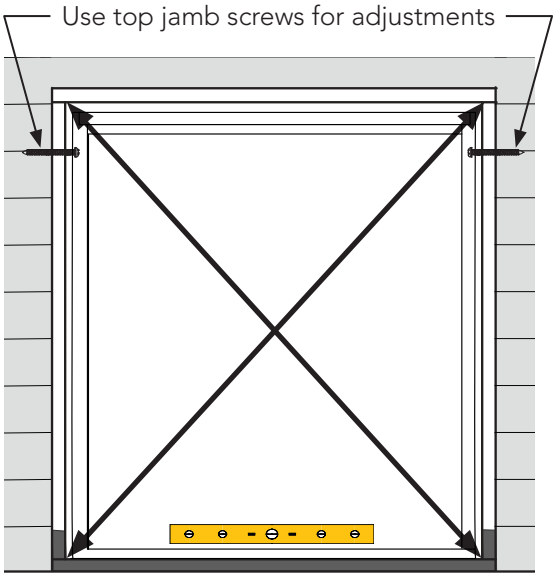
4. Install a #8" x 3" installation screw (Pack #2) into the top **interior** jamb pocket of the fixed sash side, through factory pre-drilled wood blocking. Be sure to leave wood blocking in place. **DO NOT over tighten screw.** *(Fig. B.1)*

B. INSTALL FRAME *(CONTINUED)*

EXTERIOR VIEW

Measure diagonally from corner to corner

Use top jamb screws for adjustments



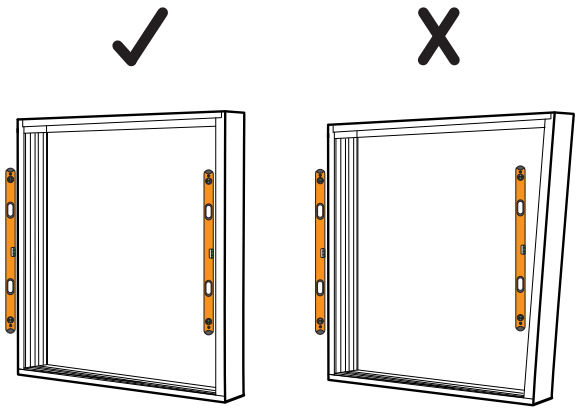
Check for square

(Figure B.2)

5 Check for overall square of patio frame by measuring diagonally from corner to corner, each side. Recommended tolerance for the diagonal measurement is ⅛". Adjust top jamb screws as needed. *(Figure B.2)*

6 Level sill if needed. If sill is not straight and level, it must be shimmed for proper operation of the patio door.

FRAME ALIGNMENT



CORRECT
Equal vertical plane alignment

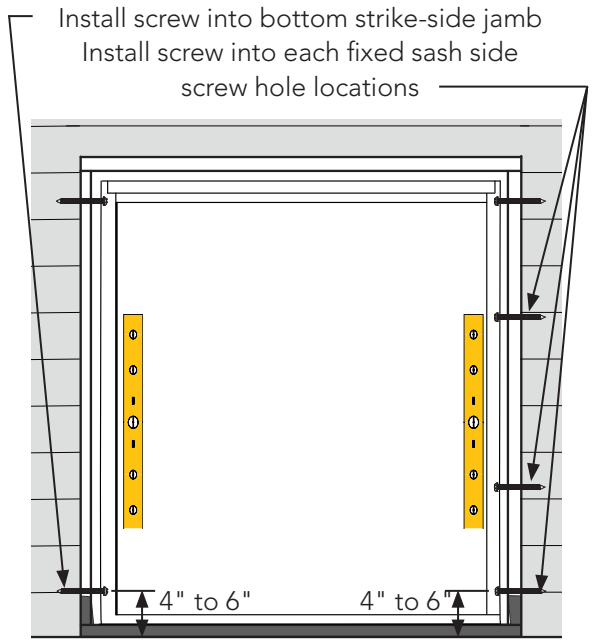
NOT CORRECT
Unequal vertical plane alignment

(Figure B.3)

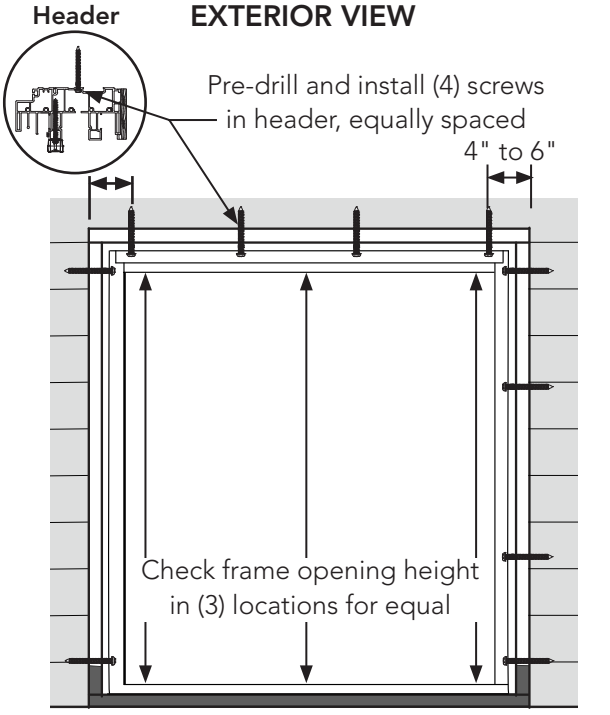
7 Check plane of the patio frame. Each vertical jamb side frame should be equal and parallel to the other. See illustration for equal and unequal plane. *(Figure B.3)*

⚠ ***IMPORTANT! If frame is bowed, it may be necessary to shim frame at various locations before adding installation screws.***

B. INSTALL FRAME *(CONTINUED)*



(Figure B.4)



(Figure B.5)

8 Install a #8" x 3" installation screw (Pack #2) into the bottom **EXTERIOR** jamb pocket of the active sash side, minimum 4" to 6" up from bottom corner. Locate screw on vinyl score line. Or if installation accessory **5940, 5945, or 5956 nail fin**, secure through the **INTERIOR** jamb pocket. Drill a ⅜" pilot hole located on score line and install screws as noted. Secure to second vinyl wall of frame. *(Figure B.4)*

9 Install (3) #8" x 3" installation screws (Pack #2) into the **INTERIOR** jamb pocket of the fixed sash side, through factory pre-drilled wood blocking. Place (2) in center and (1) screw 6" up from bottom corner. Be sure to leave wood blocking in place. **DO NOT over tighten screws.** *(Figure B.4)*

10 Check each jamb side frame for straight and parallel to each other. Adjust jamb side installation screws as necessary for parallel. Be sure installation screws do not pull vinyl frame causing frame to bow. Re-check for overall square. *(Figure B.4) (Also refer to Figure B.3 for correct plane alignment.)*

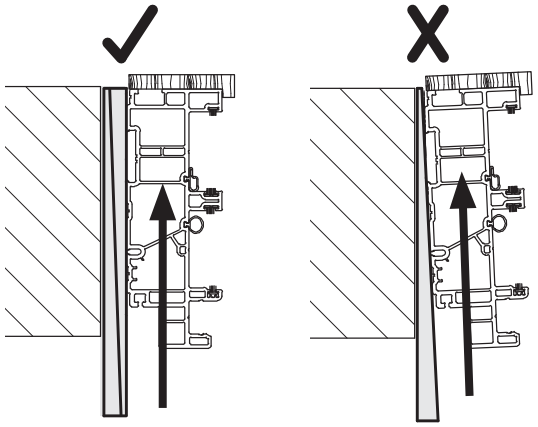
11 Pre-drill (4) ⅜" holes through the first wall of the vinyl header frame, equally spaced at a 24" maximum. Place each corner screw hole a minimum of 4" to 6" in from corner. Install a #8 x 3" screw (Pack #2) into each pre-drilled header screw hole location. **DO NOT over tighten screws causing frame to pull.** *(Figure B.5)*

NOTE: DO NOT install screw hole plugs at this time. Plugs will be installed after installation is fully completed.

12 Check frame opening height in (3) locations, each jamb side and center. All (3) measurements to be equal. Adjust header installation screws as necessary to achieve equal measurements. Be sure installation screws do not pull vinyl frame causing frame to bow. Header and sill must be parallel for proper operation of active sash and screen. *(Figure B.5)*

B. INSTALL FRAME *(CONTINUED)*

SHIMMING APPLICATIONS



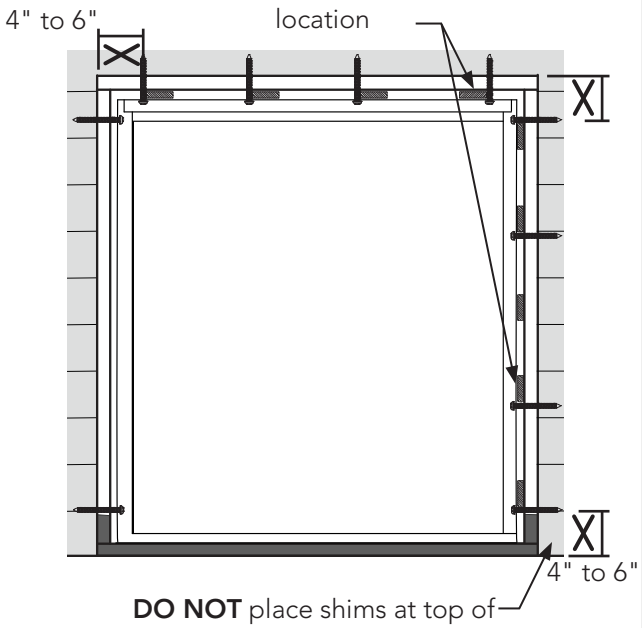
CORRECT
Flat shims or wedge shims stacked to create a flat plane will result straight frame

NOT CORRECT
A wedge shim will cause frame to roll resulting in rolled and bowed frame

(Figure B.6)

EXTERIOR VIEW

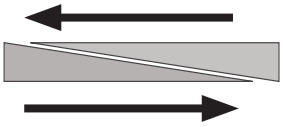
Place stacked shims next to each screw location



DO NOT place shims at top of header and bottom sill locations of jamb, each side

(Figure B.7)

⚠ ***IMPORTANT!*** ***CORRECT*** *shimming application; stack wedge shaped shims contrasting and plane to plane. See diagram below.* ***DO NOT*** *use a single wedge shim. This will cause the frame to roll, resulting in unequal margins. (Figure B.6)*



⚠ ***IMPORTANT!*** ***DO NOT over shim. Improper shimming may roll, bow, and change margins, jeopardizing operation.***

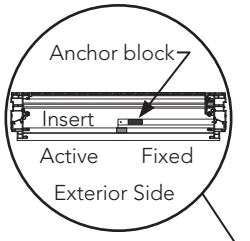
⚠ ***IMPORTANT!*** ***To prevent water infiltration, DO NOT install screws through sill.***

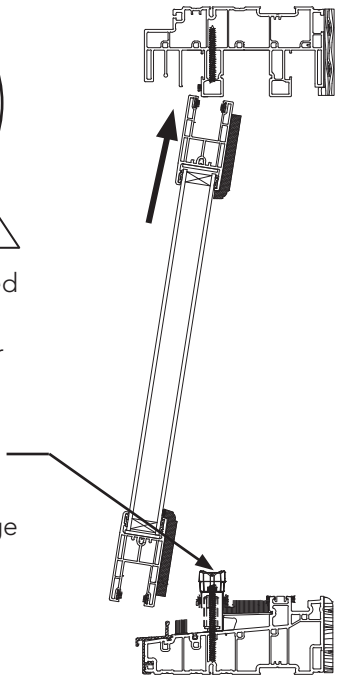
13 Place shims next to each installation screw located on fix sash jamb side and header only. **DO NOT** shim active sash side at this time. Be sure top jamb shims are located 4" to 6" from top of frame and bottom shims are 4" to 6" from bottom of frame. Be sure header shims are located 4" to 6" from each corner. If spacing between side jamb or header shims is greater than 12" to 18", additional shims may be needed to maintain margins and stabilize frame. Use shims to adjust straight and parallel as needed. *(Figure B.7)*

NOTE: To allow for vinyl expansion, **DO NOT** place shims at top header, bottom sill, or header corner locations as shown. Shimming in these locations will cause frame distortion.

14 Confirm frame is square and even with interior wall.

C. INSTALL FIXED SASH





Sill Plan View

Section View

On the active side of frame, insert fixed sash, before top and bottom anchor blocks

Slide sash onto sill adapter and engage top and bottom anchor blocks

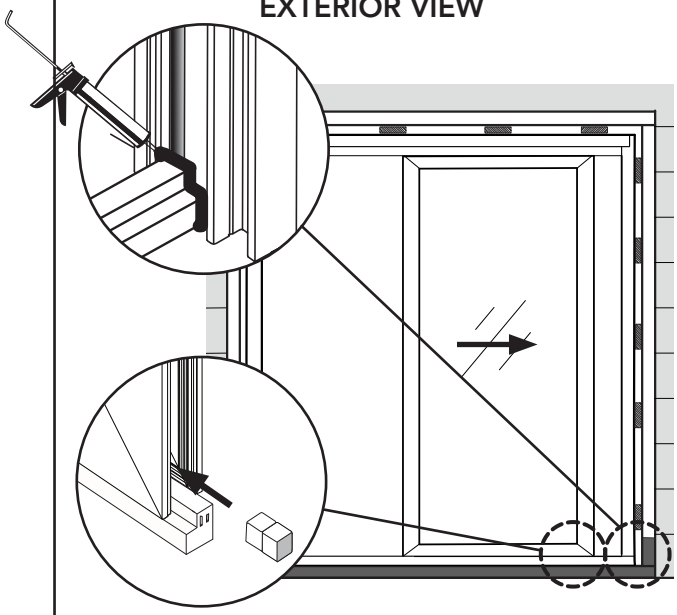
(Figure C.1)

1 The top and bottom slide caps on the fixed sash stile are shipped in the open position. Check to be sure caps have remained open.

2 From the exterior, insert top of the fixed sash into outside header track of the active sash side of frame. Be sure the fixed sash is inserted away from the anchor blocks. Align door bottom with sill adapter. Slide the fixed sash towards jamb side and onto the sill adapter, over the top and bottom anchor blocks. Do not push fixed sash fully against jamb. *(Figure C.1)*

NOTE: Check to be sure the (4) sash anchor screw holes are located towards the center of unit. Interlock rail should be in the center of the unit.

EXTERIOR VIEW



Caulk all sides of track against jamb
Insert (2) foam plugs into bottom cavity of sash on jamb side

(Figure C.2)

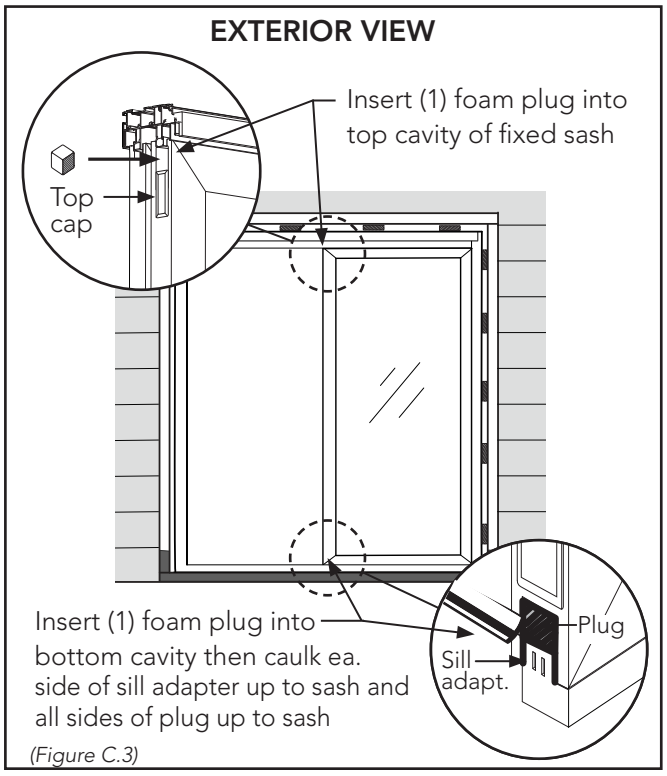
3 On fixed sash jamb side, insert (2) foam plugs (Pack #3), side-by-side, into the open BOTTOM cavity. *(Figure C.2)*

4 Place a bead of caulk around all sides of the bottom track, where the track meets the side jamb. *(Figure D.2)*

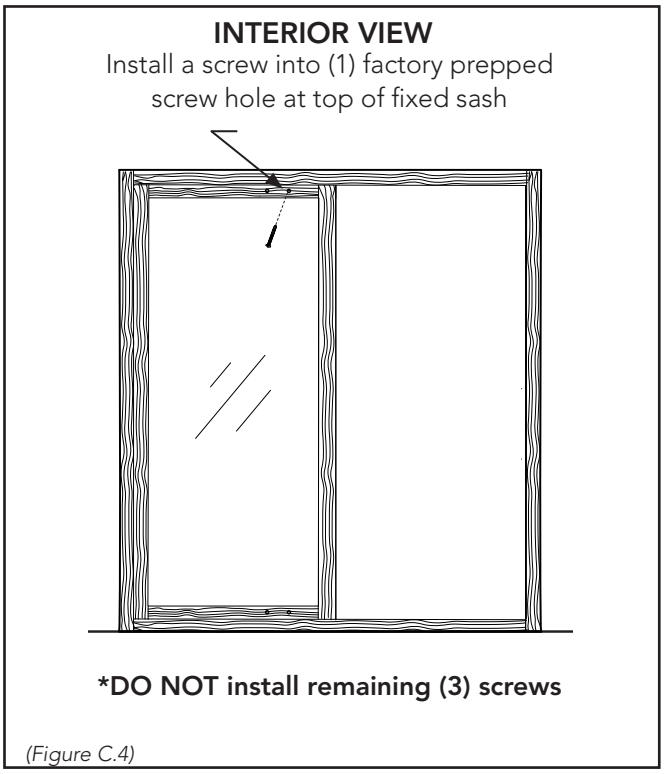
5 Slide fixed sash tight into jamb pocket. *(Figure C.2)*

REMINDER: *Check to be sure the weather strip on interlocks have remained in place.*

C. INSTALL FIXED SASH *(CONTINUED)*



(Figure C.3)



(Figure C.4)

6 Insert (1) foam plug (Pack #3) into the open BOTTOM cavity of fixed sash stile, side facing center. Place a vertical bead of caulking along each side of sill adapter to sash for a complete seal. Apply caulking to each side of the sill adapter up to sash and all sides of the foam plug up to sash to form a complete seal, as shown in Detail. *(Figure C.3)*

NOTE: Check to be sure sash has remained aligned and flush with end of sill adapter.

7 Insert (1) foam plug (Pack #3) into the open TOP cavity of stile, side facing center. *(Figure C.3)*

8 Slide top and bottom caps closed.

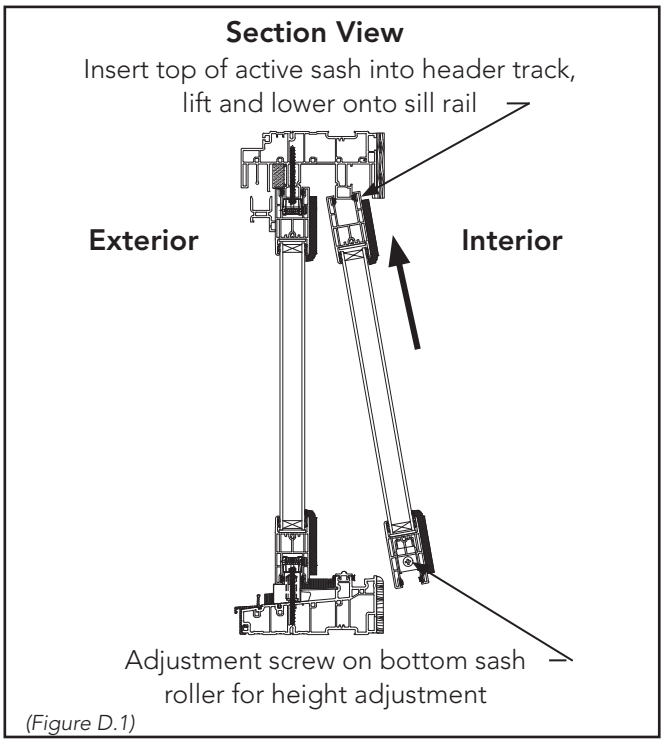
9 Verify frame opening height in (3) locations, each side and center, as previously performed in Section B. Adjust frame header as necessary for equal measurements. Frame header may need to be pushed up or pulled down to achieve equal measurements.

NOTE: THIS STEP IS CRITICAL for the AccuVent™ and screen to operate properly.

10 Install a #8 x 1" Phillips pan head screw (Pack #3) into (1) factory prepped screw hole located at the top of fixed sash, ONLY. This will secure door to top anchor block. *(Figure C.4)*

NOTE: DO NOT install (3) remaining screws in factory prepped screws holes. This will allow for adjustment with active sash once installed.

D. INSTALL ACTIVE SASH



(Figure D.1)

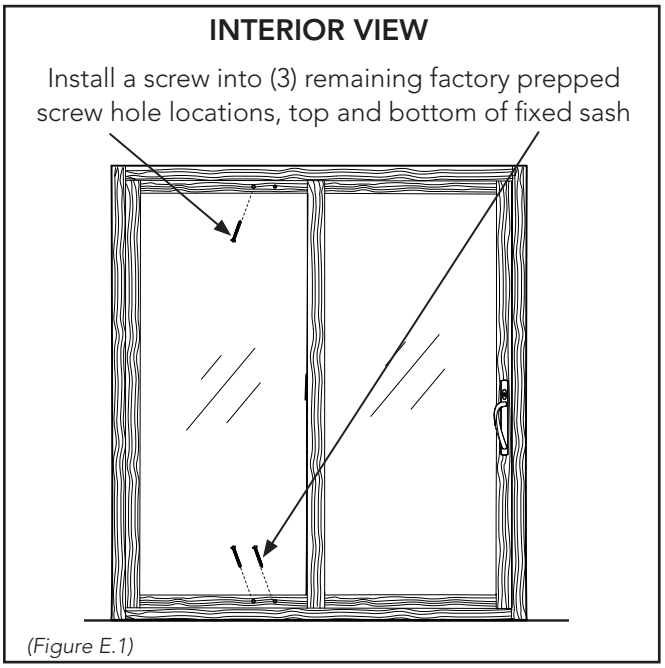
1. Check the active sash interlock rail to be sure weather strip, on exterior side, has not slid up or down. Properly re-seat if needed.

2. From interior of home, insert top of the active sash into header track. Lift and lower sash onto the sill rolling rail. *(Figure D.1)*

   NOTE: Check to be sure weather strip on fixed sash has remained in place.

3. Note the location of the adjustment screws located on bottom sash rollers to adjust each side of active sash as necessary for equal height, squareness, and margin. Turn adjustment screw clockwise to raise sash and counter-clockwise to lower sash. Unweight sash to assist with upward adjustment. *(Figure D.1)*

E. INSTALL REMAINING FIXED SASH SCREWS



(Figure E.1)

1. Re-check for equal height measurements and alignment with active sash.

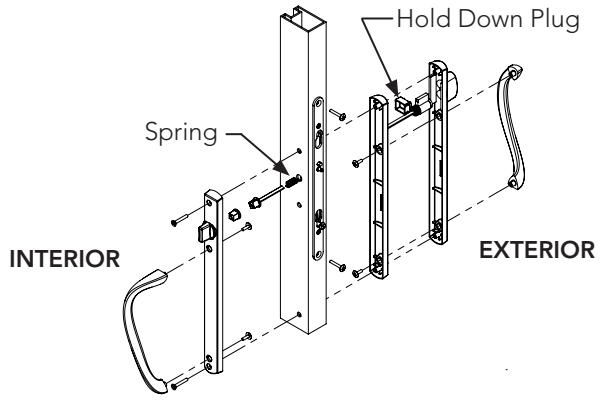
2. Install a #8 x 1" Phillips pan head screw (Pack #3) into (3) remaining factory prepped screw hole locations at the top and bottom of fixed sash.

   NOTE: DO NOT fully secure the (4) screws until a final height check for equal distance across length of frame assembly is established.

F. INSTALL HANDLE SET

FOR KEYED SIGNATURE HANDLE SETS IN White, Beige, Black, Sandstone, White/Sandstone, White/Beige, and White/Black

SPRING AND HOLD DOWN PLUG MUST BE INSTALLED



**DO NOT USE a power screwdriver to install. Doing so will cause damage and VOID WARRANTY*
**DO NOT OVER TIGHTEN the screws*

(Figure F.1)

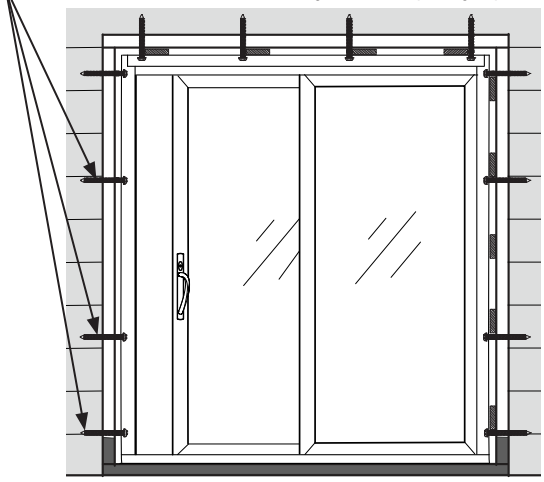
The manufacturer's hardware installation instruction is located inside the hardware box. Refer to the included instruction for the complete step-by-step guide.

1. Fasten handles to each plate using the (2) mounting screws provided. *(Figure F.1)*
2. For all keyed Signature handle sets in the color white, beige, black, sandstone, white/sandstone, white/beige, and white/black, the included spring and hold down plug MUST be installed. *This step does not apply to handles with a metallic finish or white/bronze finish.* (*Refer to Figure F.1)*
3. Position handle set into factory prepped holes. Align spindle with lock knob on inside handle. Confirm hand grip curves towards the glass. *(Figure F.1)*
4. Use (2) screws provided to install the exterior and interior handle set assemblies to the active sash. *(Figure F.1)*

G. INSTALL ACTIVE SASH JAMB SIDE SCREWS AND SHIMS

EXTERIOR VIEW

Install (2) remaining installation screws into active sash center side jamb, equally spaced



(Figure G.1)

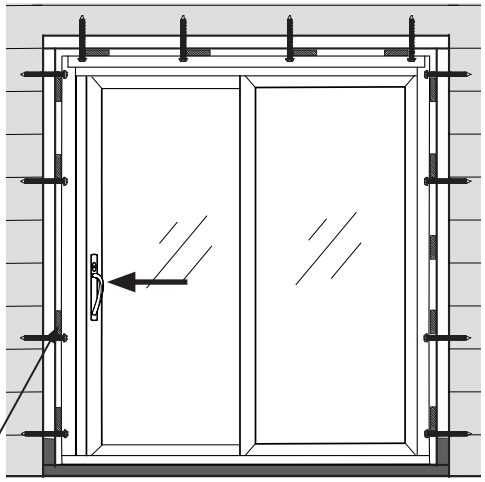
1. Install (2) #8" x 3" installation screws (Pack #2) into the **exterior** jamb pocket of the active sash side. Place (2) equally spaced in the center. **DO NOT** tighten screws. Screws can be used for frame alignment and adjustment in Step 2. *(Figure G.1)*

   NOTE: If using the **5940, 5945, or 5956 nail fin**, secure through the **interior** jamb pocket. Pre-drill a ⅜" hole and install screws into the interior jamb pocket, securing to second wall of the vinyl frame.

G. INSTALL ACTIVE SASH JAMB SIDE SCREWS AND SHIMS

EXTERIOR VIEW

Slide sash almost closed to check alignment and margin to frame



Shim to each active sash side screw, use shims to adjust frame alignment

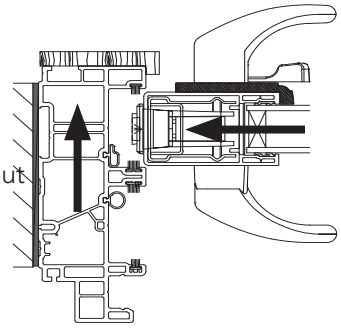
(Figure G.2)

SASH OPERATION

✓

CORRECT

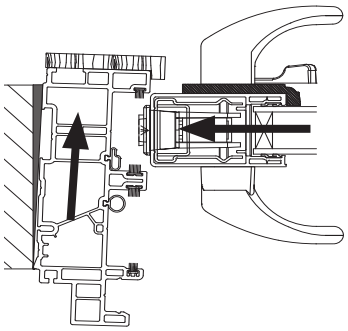
Sash slides in and out of pocket with ease



✗

NOT CORRECT

Sash is difficult to operate. Requires adjustments



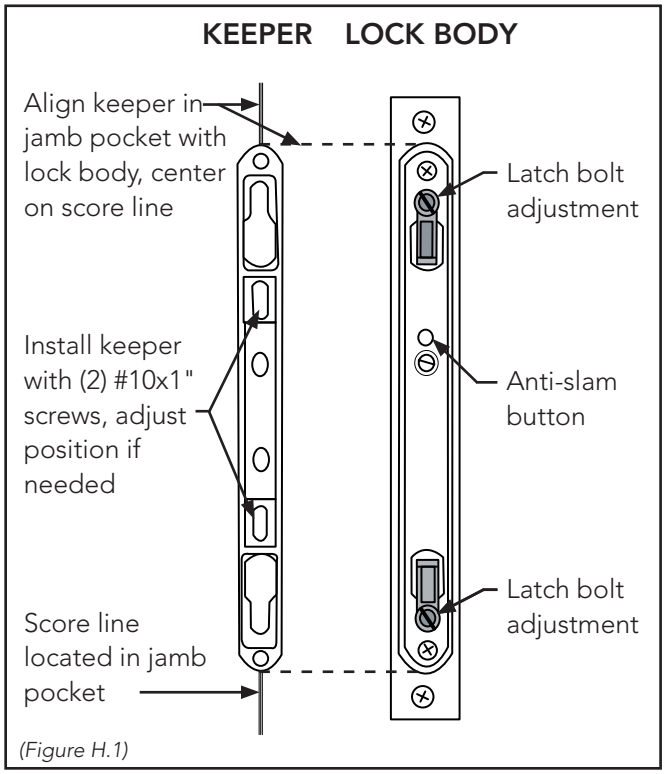
(Figure G.3)

2 Slide active sash to almost closed, check alignment and margin of the sash strike edge to frame. Shim active sash side frame at each installation screw to adjust frame as needed. Be sure top and bottom shims are 4" to 6" away from corners. Additional shims maybe needed for proper frame alignment. ***FLAT SHIMS MUST BE USED. Be careful to NOT over shim causing frame to roll or bow.*** *(Figure G.2)*

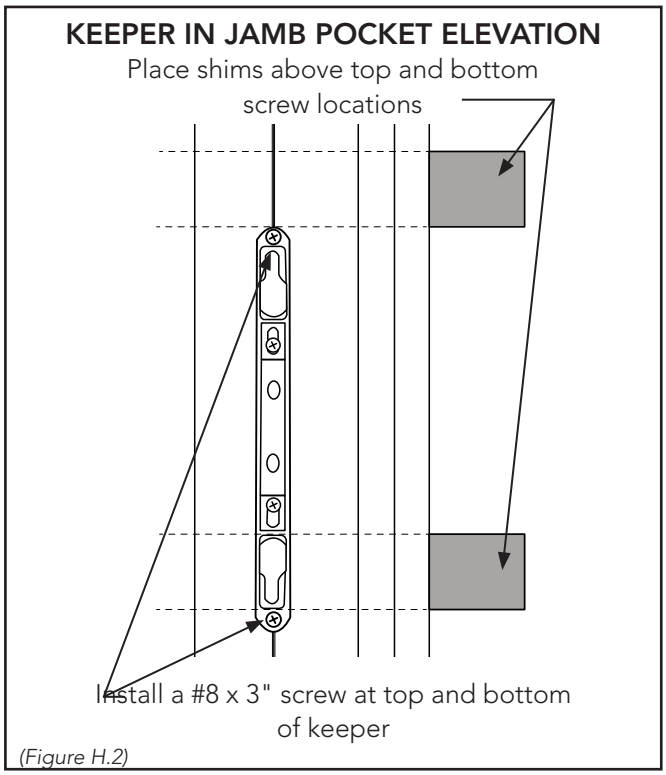
⚠ ***IMPORTANT! CORRECT sash operation. If jamb side frame becomes rolled during installation, the active sash will conflict with the frame resulting in poor operation. The jamb side frame must be straight and parallel to active sash. Refer to Figure G.3 for an illustration of proper frame to sash alignment. (Figure G.3)***

3 Re-check sash operation. Sash must slide in and out of jamb pocket smoothly for proper operation and lock function. If not, continue to adjust shims, screws, and the adjustment screw located on bottom sash rollers to further align as needed.

H. INSTALL KEEPER



(Figure H.1)



(Figure H.2)

1. Slide active sash almost closed, leaving enough room to align keeper with lock body. Mark jamb with the location of top and bottom of keeper, as aligned with lock body. *(Figure H.1)*

2. Center keeper on jamb pocket score line and center between marks made. Install keeper by using (2) #10 x 1" screws in the elongated screw hole locations. This will allow for a slight up and down adjustment if needed. *(Figure H.1)*

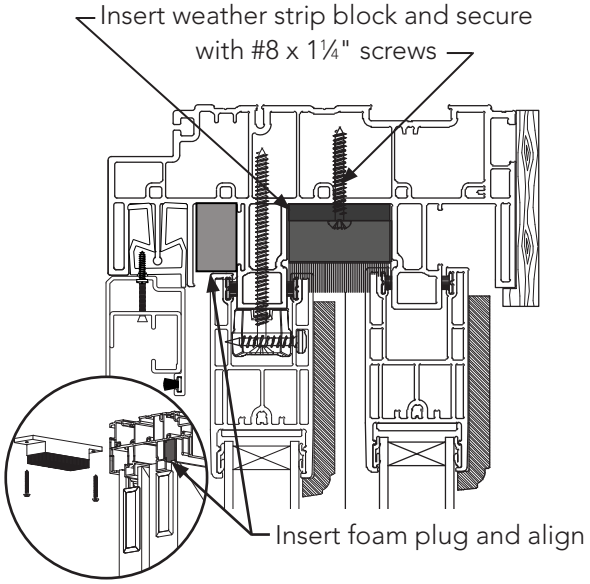
3. Close active sash, locking and unlocking handle. If needed, adjust the latch bolt and keeper positions until sash latches securely without sash movement or excessive latching effort. To adjust latch bolt position, open sash and engage the anti-slam button to allow the latch bolt to lock. Use a flat head screwdriver to loosen or tighten latch bolt as needed. Test function of the lock. Repeat step if lock is still too tight or too loose. *(Figure H.1)*

4. After final adjustments are completed, install a #8 x 3" screw (Pack #2) at top and bottom of the keeper to secure in place *(Figure H.2)*

5. Place shims immediately above each top and bottom keeper screw location. *(Figure H.2)*

I. INSTALL HEAD WEATHER STRIP BLOCKS & INSECT STOPS

HEAD WEATHER STRIP BLOCK SECTION



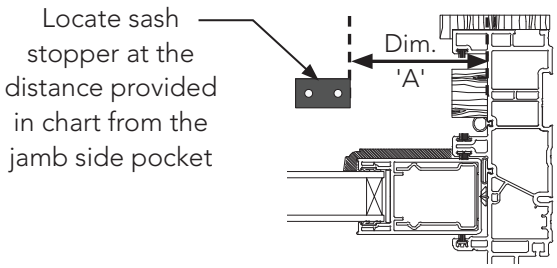
(Figure I.1)

1. Verify the interlock weather strips have not slipped out of place but are flush with the top of the sash.
2. From the exterior and with the active sash open, insert the weather strip block (Pack #4) in the center channel of the header. Locate the end of tall section flush with the end of the fixed sash. *(Figure I.1)*
3. With the sash open, secure the weather strip block with a #8 x 1¼" Phillips pan head screw (Pack #4). Close the active sash and from the interior, access the second screw hole and secure. **DO NOT over tighten screws**. *(Figure I.1)*
4. Insert (1) foam plug (Pack #3) in the open cavity between the fixed sash and screen track, as shown. Foam plug must align with edge of fixed sash. *(Figure I.1)*

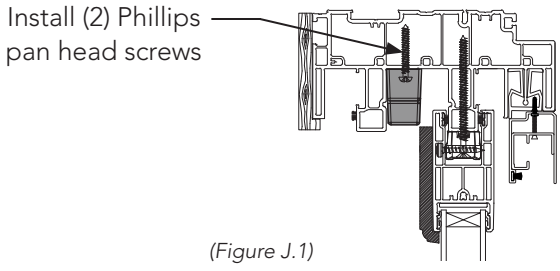
J. INSTALL SASH STOP

SASH STOP LOCATION

Fixed Sash Side - Jamb



Fixed Sash Side - Header



(Figure J.1)

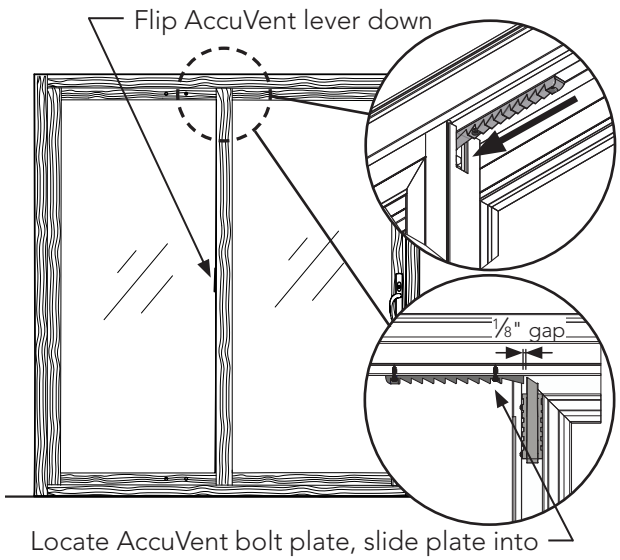
1. On the fixed sash side, place sash stopper (Pack #5) on the active sash header track. Locate the sash stopper per the appropriate dimension provided in chart below and per the illustration in *Figure J.1*.

Sash Type	Dimension 'A'
Without Blinds	2¾" from jamb sash pocket
With Blinds	4" from jamb sash pocket

⚠ ***IMPORTANT!*** ***To avoid a pinch hazard between exterior handle set and fixed sash, do not allow less than the above dimensions.***

2. Install sash stopper with (2) #8 x 1¼" Phillips pan head screws (Pack #5).

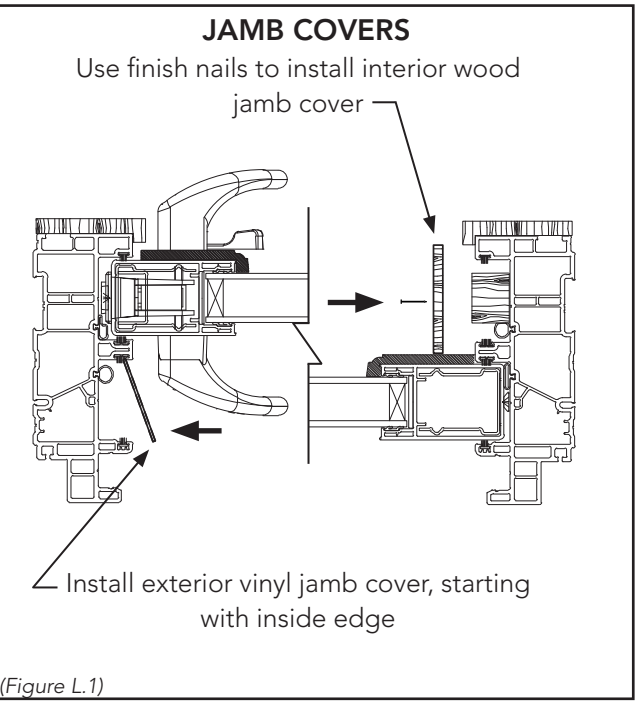
K. INSTALL ACCUVENT™ VENT SYSTEM BOLT PLATE



(Figure K.1)

1. Close active sash and lock handle set.
2. Flip AccuVent lever down into locked position. *(Figure K.1)*
3. Locate the AccuVent bolt plate (AccuVent Bolt Plate Kit) on the active sash header track. Slide plate into the stile opening of the active sash, next to the AccuVent bolt, as shown in *Figure K.1*. Provide a 1/8" clearance between bolt plate and bolt. *(Figure K.1)*
4. Pre-drill a 3/32" or 7/64" hole and install (2) #8 x 1" screws (AccuVent Bolt Plate Kit). **DO NOT over-tighten screws**. *(Figure K.1)*

L. JAMB COVERS, SCREW CAPS AND HOLE PLUGS

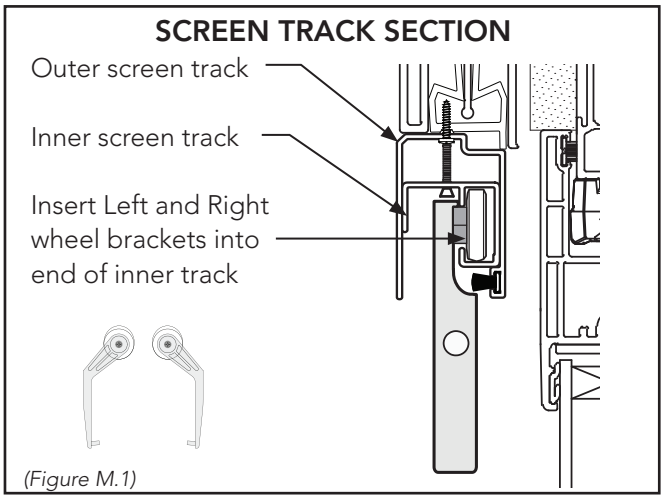


(Figure L.1)

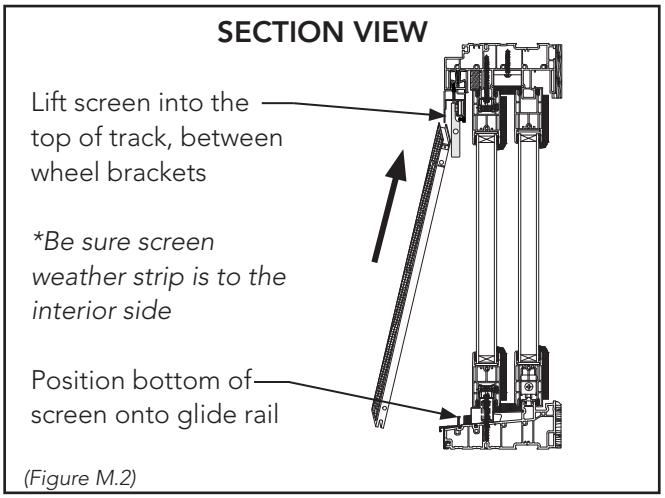
⚠ ***IMPORTANT! Final check on sash and hardware operation. ALL frame and sash adjustments must be finalized before proceeding to the following steps.***

1. Install exterior vinyl jamb cover, start at top by first inserting inside edge. Use thumb to guide edge into the frame pocket, located in front of weather strip. Use opposite thumb to apply slight pressure to top edge of cover closest to you, snapping in place. Run thumbs along edge from top to bottom of cover, apply continuous pressure, zip into place. *(Figure L.1)*
2. Install interior wood jamb cover over wood block using finish nails or wood glue.
3. Install (4) wood plugs in each fixed sash screw hole. (Wood plugs located in hardware box.)
4. Install vinyl screw hole plugs into all installation screw holes located in header and the active side jamb pocket (if applicable). (Pack #2 or hardware box). *For painted vinyl exterior, use touch-up paint (included) for screw cap covers if needed.*

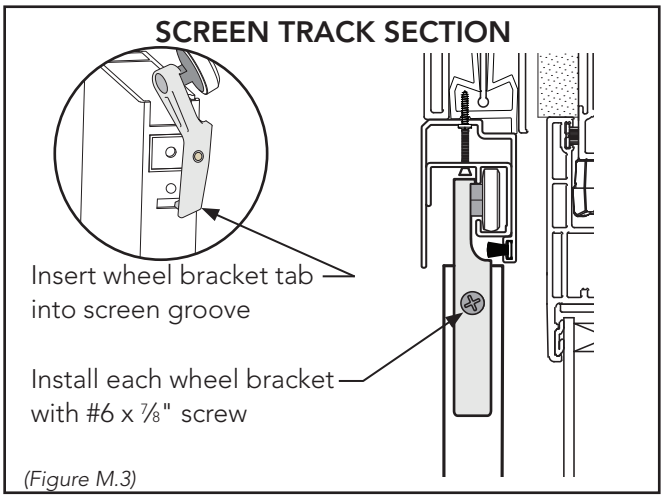
M. INSERT SCREEN



(Figure M.1)



(Figure M.2)



(Figure M.3)

1. Insert left and right screen wheel brackets into the inner track of the top screen track assembly (Pack #10). Brackets are labeled and identified by outside looking in. Insert rollers into the open space located at the ends of the inner screen track and the jamb. BE SURE each wheel bracket is positioned correctly. *(Figure M.1)*

2. Lift screen into the top screen track assembly and between wheel brackets. Place screen with the weather strip to the interior side. *(Figure M.2)*

3. Lift and position bottom of screen onto screen glide rail. *(Figure M.2)*

4. Insert the left and right wheel bracket tabs into groove located at the top of screen frame. *(Figure M.3)*

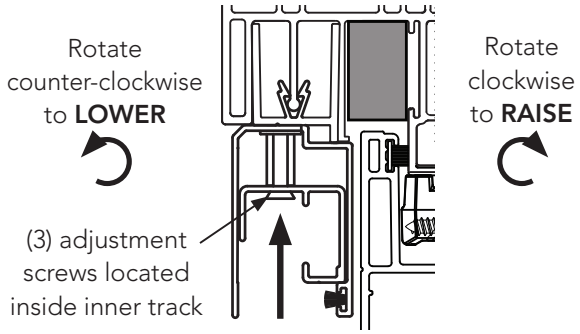
5. Install each wheel bracket using a #2 Phillips head screwdriver to install a #6-32 x ⅞" Phillips flat head screw (Pack #10). *(Figure M.3)*

NOTE: DO NOT use excessive torque on the bracket screws.

N. ADJUST SCREEN AND KEEPER

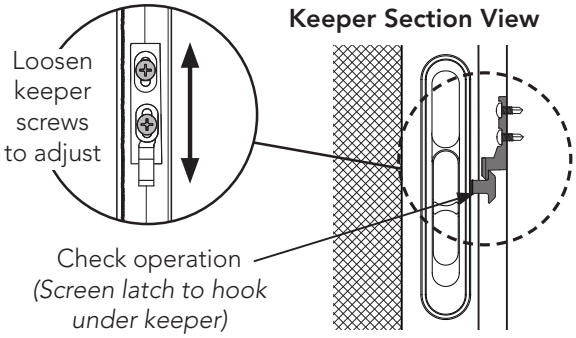
NOTE: SCREEN LATCH AND SCREEN KEEPER ARE FACTORY INSTALLED.

SCREEN TRACK SECTION



(Figure N.1)

SCREEN KEEPER AND LATCH



(Figure N.2)

1. To adjust height and square of the screen, locate (3) adjustment screws inside the inner screen track for each screen side. *(The Left and Right inner screen tracks are separate and move independently.)* Adjust left and right screws until screen is parallel to sash and jamb. Once screen placement is set, align center screw to match.
Note, each complete turn of the screw will raise or lower the track by 1/32". Turn counter-clockwise to LOWER the screen and clockwise to RAISE the screen. DO NOT remove the adjustments screws. (Figure N.1)

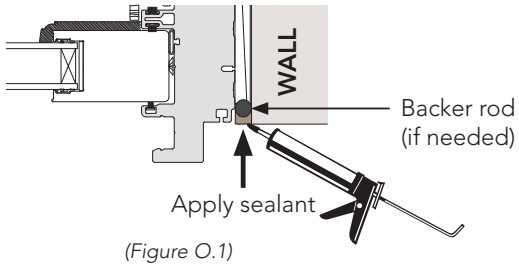
   NOTE: DO NOT USE a power drill to make adjustments. Doing so will cause excessive torquing of adjustment screws. **ONLY** use a #2 Phillips head screwdriver.

2. If the screen is not latching properly after screen alignment has been established, check the screen latch for proper operation. Screen latch should hook underneath latch keeper. Latch should always unlatch while pushing down on keeper slide. If adjustments are required, use a #2 Phillips head screwdriver to loosen keeper screws and move keeper up or down as needed. *(Figure N.2)*

O. INSULATE

SEAL EXTERIOR FRAME TO WALL JOINT

DO NOT SKIP THIS STEP!



(Figure O.1)

1. Trim all shims flush with patio frame.

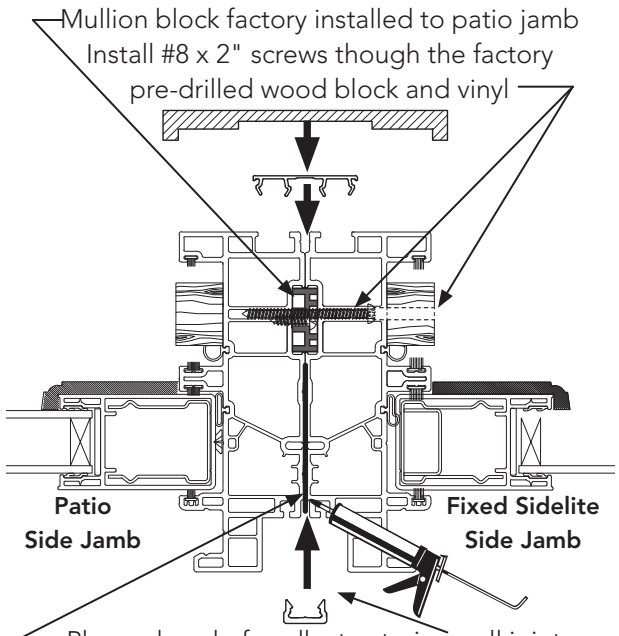
2. From the interior, insulate with an AAMA approved ASTM C1620 low-expanding foam to fill all cavities between frame and opening. Check and maintain all margins during insulating. ***Over use of low-expanding foam may cause frame to bow, jeopardize operation.***

3. **For units without nail fin, apply a bead of caulking to seal the EXTERIOR frame to wall joint. If needed, use backer rod, be sure to press rod into gap approximately ¼". DO NOT SKIP THIS STEP. *(Figure O.1)***

⚠ ***IMPORTANT!*** *Allowance must be given for expansion and contraction of exterior trim application. Refer to the QR code located at the end of this instruction for gap recommendations per exterior finish material type.*

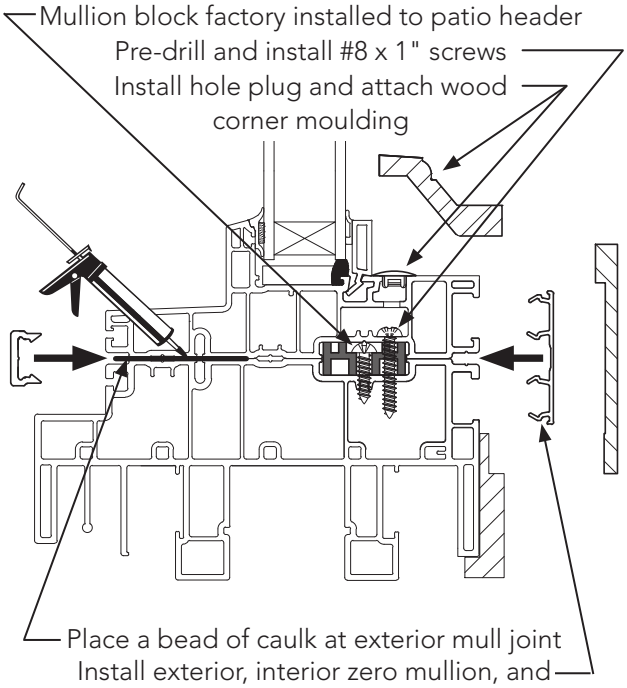
P. FIELD MULLING

PATIO TO FIXED SIDELITE MULL SECTION



(Figure P.1)

PATIO TO TRANSOM MULL SECTION



(Figure P.2)

Units must be mulled together before setting into the opening. Use Installation Pack- Mulled Units, Part # S-DH-022S-CC for required field mulling components.

NOTE: Mullion block(s) will be factory installed to patio unit. For units requiring heavy reinforcement mulling, refer to the QR code 'Installations Instructions Vinyl Patio Sidelite or Transom Field Mulling - Heavy Reinforcement' located at the end of this instruction.

1. Align the fixed sidelite or transom to the patio unit. Check for flush, even and square alignment of frames.

2. Attach fixed sidelite or transom to patio.
   - For sidelite(s), install #8 x 2" screws through the factory pre-drilled wood blocking and vinyl located in sidelite jamb pocket. Counter-sink screws approximately ¼" into vinyl frame.
   - For transom, pre-drill through vinyl sill as shown. Install #8 x 1" screws to secure transom to patio unit. Insert ⅜" vinyl hole plugs to seal.

3. When mulling a patio sidelite or mulling is done on a flat surface, stacking plates must be installed prior to lifting unit to an upright position. Refer to Steps 9-13 of this Section for stacking plate installation.

4. Place a bead of caulk at all exterior mull joint locations. Be sure all voids between mulled frames are sealed. *(Figure P.1 & P.2)*

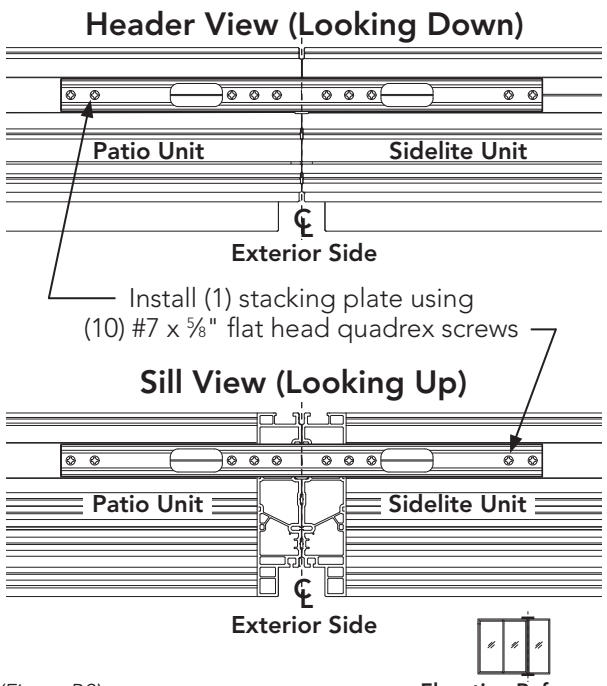
5. Install the vinyl exterior zero mullion cover and interior double mullion cover into frame accessory channels, as shown. If a face mounted installation accessory was ordered, the accessory must be installed before the zero mullion cover. *(Figure P.1 & P.2)*

6. After mulled unit is fully installed, nail or glue the interior wood mullion cover in place. *(Figure P.1 & P.2)*

7. After mulled unit with transom is fully installed, nail or glue the interior wood corner moulding in place. *(Figure P.2)*

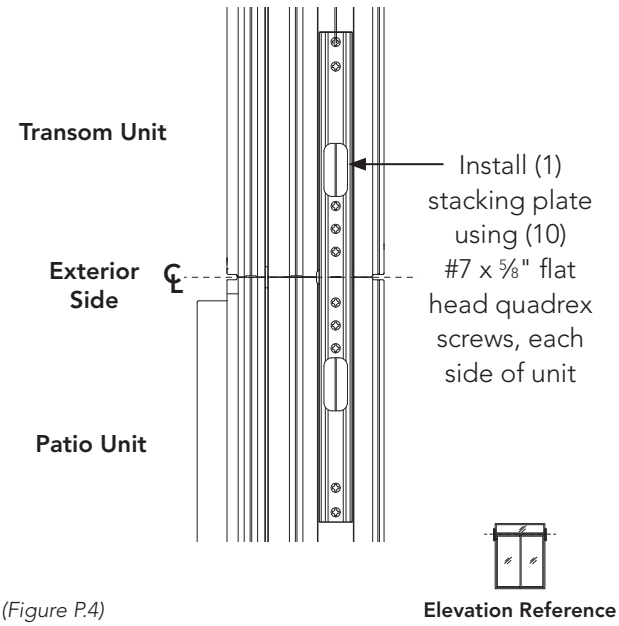
P. FIELD MULLING *(CONTINUED)*

PATIO TO FIXED SIDELITE STACKING PLATE



(Figure P.3)

PATIO TO TRANSOM STACKING PLATE



(Figure P.4)

8 For sidelite, install (1) stacking plate to secure patio frame header to sidelite frame header. Align centerline of stacking plate with centerline of mull joint. Secure plate using (10) #7 x ⅝" flat head quadrex screws (provided) as shown. *(Figure P.3)*

9 For sidelite, install (1) stacking plate to secure patio sill to sidelite sill. Align centerline of stacking plate with centerline of mull joint. Secure plate using (10) #7 x ⅝" flat head quadrex screws (provided) as shown. *(Figure P.3)*

10 For transom, install (1) stacking plate to secure patio frame side jamb to transom frame side jamb. Align centerline of stacking plate with centerline of mull joint. Secure plate using (10) #7 x ⅝" flat head quadrex screws as shown. Repeat step on opposite side. *(Figure P.4)*

11 If multiple transoms, install (1) stacking plate to secure transom frame header to transom frame header. Align centerline of stacking plate with centerline of transom mull joint. Secure each plate using (10) #7 x ⅝" flat head quadrex screws.

12 If the patio unit was ordered with an installation accessory, install at this time. Refer to the included document, 'Installation Instruction Vinyl Patio Door Installation Accessories and New Construction Flashing'. The QR code for this instruction can also be found at the end of this instruction document.

TROUBLESHOOTING & TIPS

PROBLEM	CAUSE	SOLUTION
Sash is difficult to operate	1. Sill is crowning 2. Header is sagging.	Measure distance between sill and header at each jamb and several locations in between. If measurements are not equal, the sill could be crowning or the header could be sagging. This will cause the head weather strip block to put too much pressure on the sash making it difficult to operate. Adjust shims and screws in header.
Handle set is difficult to lock	Keeper or latch bolt is not properly positioned.	1. Refer to 'Install Keeper' section for adjustment and positioning instruction. 2. Latch the door for a period of time to allow the weatherstrip to compress. Operation will ease with time.
Screen is dragging	Outer screen track is slightly angled outward.	Re-align outer screen track.
Screen weather strip does not contact sash	Outer screen track is slightly angled outward.	Re-align outer screen track.
Active sash will not close into frame pocket or sash is catching in pocket	Frame is bowed or rolled.	Refer to Section B, Frame Installation for proper shimming and Section D, Step 3 on page 12 of this instruction. Re-shimming patio unit may be required.
Handle is loose	Sash is catching in frame pocket due to bow or roll in frame	Refer to Section B, Frame Installation section for proper shimming and Section D, Step 3 on page 12 of this instruction. Re-shimming patio unit may be required.
AccuVent™ bolt will not release from bolt plate	Head is bowed down or sill is bowed up.	Refer to Section C, Install Fixed Sash. Adjust as required.
Screen rollers hitting	1. Inner track is too high. 2. Inner track screw is hanging down.	1. Lower top inner track. Refer to Section N of this instruction. 2. Adjust inner track screw height.
Active sash rolls uneven or rough	Dirt build up on the wheels.	Clean wheels.
Air leakage at the interlock	1. Top weatherstrip block is missing or incorrectly located. 2. Interlock weatherstrip is out of location. 3. Foam plugs are not installed.	1. Refer to Section I for installation and placement of head weather strip block. 2. Relocate weather strip. 3. Refer to Section C, Step 3 & 5 for installation of foam plugs.
Condensation is present on inside or outside of glass	Various normal conditions/ reasons.	Refer to "Condensation, Humidity and Dew Point Temperature" QR code listed below for a detailed explanation of normal condensation conditions.
Screen will not roll over screen track sill	Inner track is too high.	Lower top inner track. Refer to Section N of this instruction.
Screen latch rail is not properly aligned with jamb	1. Main frame is out of square. 2. Inner track is out of alignment.	Lower top inner track. Refer to Section N of this instruction.

TROUBLESHOOTING & TIPS

**Please call Customer Support for additional installation inquiries at 1-800-669-4711.*

**For additional information and helpful videos, visit our Installation Support Homepage. SCAN or TAP the QR Code.*

Install Instruction Vinyl Patio Sidelite or Transom Field Mulling - Heavy Reinforcement

Installation Instruction Vinyl Patio Door Installation Accessories and New Construction Flashing

Installing Exterior Veneers to Patio/Windows

Condensation, Humidity and Dew Point Temperature

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