



*The Difference is Clear!*SM

Sliding Door *INSTALLATION* *INSTRUCTIONS*

Please make sure you have:

- 1 - Operating (X) Panel (*Glazing Bead Inside, Roller Adjustment Holes Outside*)
- 1 - Fixed (O) Panel (For 3-Panel doors, there are 2 fixed panels!)
- 1 - Patio Door Screen Carton
- 1 - Patio Door Main Frame Carton

OX	XO	<i>Rough Opening Size</i>	<i>Finished Tip-to-Tip</i>
		5'0" x 6'8"	58 7/8" x 79 1/2"
		6'0" x 6'8"	70 7/8" x 79 1/2"
		8'0" x 6'8"	94 7/8" x 79 1/2"
		9'0" x 6'8"	107 7/16" x 79 1/2"
		12'0" x 6'8"	143 7/16" x 79 1/2"

As viewed from outside

Step 1 Pre-Installation Check (before beginning tear-out)

- Confirm that the replacement door is handed correctly, and is the right size and color.
- Check the color of the screen.
- Check the contents of the Main Frame Carton.
 - Identify:* (A) 1 - Head -- Make sure roller track is pre-installed
 - 1 - Sill -- Consists of PVC sill, aluminum screen track, aluminum threshold, fixed panel (B) shim, and stainless steel roller cap (all pre-assembled)
 - 2 - Jambs (1 Left & 1 Right)
 - (C) 2 - Interlocks (1 Interior & 1 Exterior)
 - (D) 1 - Screw Hole Cover for Exterior Interlock
 - (E) 3 - Jamb Pocket Covers (1 Interior, 1 Exterior, & 1 Head)
 - (F) 1 - Box containing Handle Hardware
 - 1 - Installation and Assembly Screw Package
 - (G) 2 - Mini-Blind Cords & Tensioners (only for optional mini-blinds)
- For 3-Panel doors, you will also have 1 exterior astragal post and 1 interior astragal post (illustrations inside).

② *See back cover for illustrations.*

Step 2 Remove the existing door & Prepare the opening

- 1 Repair loose or rotted boards.
- 2 It's most important that the sill is flat & level.

Step 3 Patio Door Mainframe Assembly

- 1 Locate 20 frame assembly screws - #10 x 2".
- 2 Lay out the four frame parts, interior face down, on a flat, clean surface. Gasket seals are factory-applied to the head & sill.
- 3 **Important:** Remove the top hung adapter from the screen and place it in the roller track.
- 4 **Important:** Silicone the ends of each frame member at joint to ensure adequate water protection.
- 5 Line up the screw holes in the head & sill with the jambs and fasten together with the 20 - #10 x 2" screws.

Note: If you are installing an optional vent latch, attach the keeper to the sill before installing the frame. See Step 12. If you are installing a two-panel door, skip Step 3A and proceed to Step 4.

Step 3A Three-Panel Mainframe Assembly

Photo 1A

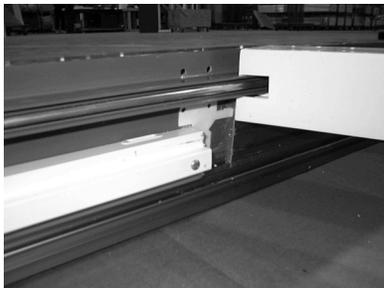
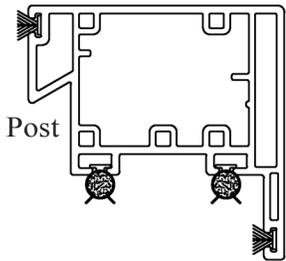


Photo 2A



- 1 Insert the interior astragal post into the assembled mainframe. Attach it with 8 - #10 x 2" screws. (Photos 1A & 2A) The mainframe is now ready for installation.

Cross-Section of Interior Astragal Post



Step 4 Mainframe Installation

Each jamb requires 3-4 installation screws. The installation screw holes are not drilled in the jamb, as you could locate the installation screws through either the interior or exterior channel of the jamb. If you do not want to install the installation screws in the outside channel, you can remove some of the short screws that hold the striker into the jamb and screw long installation screws in their place.

Photo #1



- 1 Run a generous bead of caulk the full width of the opening sill to prevent water penetration under the door. (Photo #1)

Photo #2



Photo #3



- 2 Set the frame into the opening and install it with the 8 - #8 x 2 1/2" pan head screws. (Photos #2 & 3)

• **Note:** Pre-drill an 1/8" pilot hole, then drill a 3/8" diameter hole through the interior wall to allow the installation screws to be covered by a screw hole plug. Even though the installation holes and screws are covered by the snap-in pocket covers, it is necessary to snap in the screw hole plugs to minimize possibility of air and wind noise.

Step 4 Mainframe Installation (Continued)

Photo #4



3 It is recommended that 1-2 screws be run into the head through the outer channel of the frame into the home. (Photo #4) Photo #5

4 Use wood shims to “square up” the frame and make the diagonal corner-to-corner measurements equal. (Photos #5 & 6)

5 Caulk around the roller track support where it meets the operating jamb.



Photo #6



If you are installing a two-panel door, skip Step 5A and proceed to Step 5.

Step 5A Three-Panel Fixed Panel Installation

Photo 3A



1 Lift the fixed panel up & into the head pocket (Photo 3A), swing the bottom in, and set it down onto the fixed panel shim.

• Note: The fixed panel can be installed from either the inside or outside. Also, there are 2 fixed panels with a 3-panel door. Make certain the weeps are to the bottom and the wide stile goes into the jamb.

2 Slide the fixed panel completely into the jamb pocket. (Photo 4A)

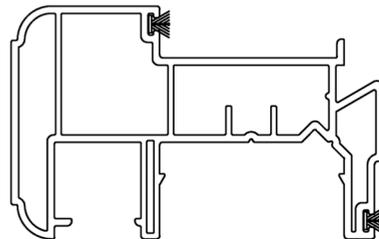
Photo 4A



Photo 5A



3 Drill three 3/32" holes into the sash using the pre-drilled holes through the frame's center leg. This will help keep the sash from drifting when screwing into place. Secure the fixed panel to the mainframe using 3 - #8 x 1 1/4" security screws. (Photo 5A)



Cross-Section of Exterior Astragal Post

Photo 6A



Photo 7A



4 Insert the exterior astragal post, positioning the head end first, and taking care to line up the notches on the sill end with the sill track. (Photos 6A & 7A)

5 Use a mallet to firmly tap the bottom into its final position. (Photo 8A)

Photo 8A



Step 5A Three-Panel Fixed Panel Installation (Continued)

Photo 9A



Photo 10A



6 Fasten the exterior astragal post to the fixed panel using the 5 - 2 1/2" installation screws in the 5 pre-drilled holes. (Photo 9A)

- Note: Make sure not to over tighten the screws.

7 Fasten the exterior astragal post to the interior astragal post using the 6 - #8 x 1 1/4" security screws in the 6 pre-drilled holes. (Photo 10A)

- Note: Make sure not to over tighten the screws.

8 Apply a bead of silicone around the bottom of the pocket in the exterior astragal post.

9 Install the jamb pocket cover. (Photo 11A)

You can now resume installing the patio door like a two-panel door, following the remaining steps, including Step 5.

Photo 11A



Step 5 Two-Panel Fixed Panel Installation

Photo #7



1 Lift the fixed panel up & into the head pocket (Photo #7), swing the bottom in, and set it down onto the fixed panel shim.

- Note: The fixed panel can be installed from either the inside or outside.

2 See that the panel is sitting level on the shim and snap the exterior interlock into the panel. The angled side of the interlock is the bottom. (Photo #8)

Photo #8



Photo #9



3 Screw the interlock to the fixed panel. Use the 5 #6 x 3/4" flat-head screws. (Photo #9)

4 Snap the filler strip in the channel to cover the interlock screws. (Photo #10)

- Note: Use a hammer and wood block (to avoid marring) to snap in the filler strip.

5 Slide the panel along the shim *completely* into the jamb pocket.

Photo #10



Photo #11A



Photo #11B

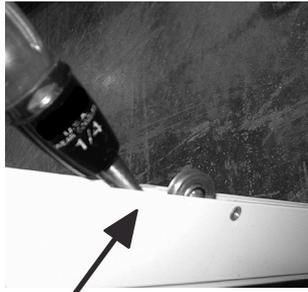


CAUTION! Do not install screws to fixed panel (next, step 6) until the operating panel is installed and locked!

6 Drill three 3/32" holes into the sash using the pre-drilled holes through the frame's center leg. (Photo #11A) This will help keep the sash from drifting when screwing into place. Secure the fixed panel into place by putting the 3 #8 x 1 1/4" screws through the jamb center leg and into the fixed panel. (Photo #11B) These holes will be covered when the pocket cover is snapped in.

Step 6 Screen Installation

1 Before setting the screen in the top hung track, apply tension on the rollers (pry on the roller leaf spring) at the bottom of the screen door that goes along the guide track to eliminate the possibility of the screen slipping off the lower guide track. (Photo #14) • Note: There may be a plastic bag of parts in the patio door screen box which is not required in the installation.



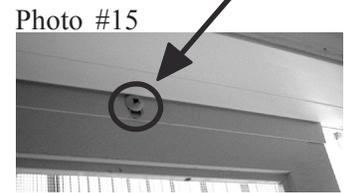
Pry up the guide roller for added tension.

2 Place fuzzy pad on the end of the Top Hung Adapter towards the interior that interacts with the fixed panel when closed.

3 Insert the screen into the roller track in the head.

4 Carefully snap lower guide rollers over the track of the sill.

5 Attach the screen through the pre-drilled slots in the roller track with the supplied screws which go right into a bushing in the screen frame. Then adjust the height for a free & easy rolling screen. (Photo #15)



CAUTION: It is necessary to completely adjust the height and operation of the screen before installing the operating panel; otherwise, the top screen adjustment screw is difficult to access, unless you have an offset Phillips screw driver.

Step 7 Operating Panel Installation

Photo #12



1 From the inside, lift the operating panel up & into the head pocket - swing the bottom in - set it down onto the stainless steel roller track. (Photo #12)

2 Check the leading edge of the operating panel to frame for perfect sight line.

3 If necessary, adjust rollers by using a Phillips screwdriver through the access holes in the exterior face of the bottom sash rail. After final adjustment, snap screw hole plugs in roller access holes.

• Note: Initially, after adjusting rollers, door may operate tightly as the operating panel is coming in contact with the gasket that is attached to the sill. After some operation of the door, the gasket on the sill will naturally compress, allowing easier operation of the door while providing a tight seal along the sill.

Photo #13A



4 With door closed, mark head rail (with pencil) at meeting rail edge for T-Foam placement. Remove door and attach T-Foam, adhesive side up, to head rail at marking (Photo #13A). Reinstall operating panel.

Open door and attach the interior interlock to the operating panel (the interior interlock has the square notch at the bottom to fit over the sill track). Position it so that the short side of the notch is even with the bottom of the sash rail and snap it into the end of the panel. (Photo #13B) • Note: Interior interlock doesn't require any screws to attach it to the operating panel.

Photo #13B



Step 8 Attach Interior & Exterior Handle to the Operating Panel

Note: Handle assembly instructions are packaged with the handle in a separate box.

Photo #16



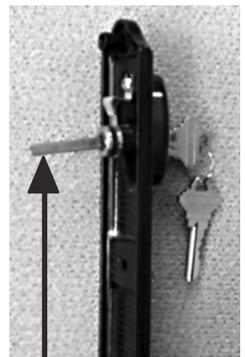
1 If provided, insert grommet into the two interior holes for assembly screws. (Photo #16) Follow the installation instructions in the handle set box using step 1 first, then step 2 for the trim set with the key cylinder.

CAUTION: If you have difficulty removing the key or operating the key lock, rotate the actuator pin 180° and reattach. (Photo #17)

• Note: To insure proper lock alignment, check that the height of the keeper aligns with the height of the lock openings in the active style. Adjust the height by loosening the screws that attach the keeper to the jamb and sliding the keeper either up or down, or by raising or lowering the operating sash.

• Note: In order to make the lock operate easily, you may have to shim behind the end keepers. The factory has already installed one shim behind the center keeper.

Photo #17



Actuator Pin

CAUTION: Slamming the door closed will cause the operating panel to hit the compression seals in the jamb and bounce out, not allowing the door to be properly locked. To easily lock the door, slide and hold the door closed, and turn the thumb knob or the keylock.

Step 9 Snap in Pocket Covers

Photo #18



1 Snap in the first pocket cover in the interior channel of the jamb in front of the fixed panel. This covers installation screws as well as the screws that secure the fixed panel in place. (Photo #18)

2 Snap the pocket cover in the exterior channel of the jamb that the operating panel slides into. • *Note: This pocket cover has the rotating screen latch pre-attached to it.* Photo #19

3 Snap the short pocket cover into the head between the jamb and fixed panel, aligning the indicator line to the same line in the jamb. (Photo #19)



Step 10 Latching of Screen Door

Photo #20



1 Slide the patio door screen closed and, while holding the door closed, rotate the knob into the latch in the face of the screen. (Photo #20)

• *Note: Shims have been pre-installed behind the screen knob. Adjust as necessary.*

For Doors with Optional Mini-Blinds:

Step 11A Cord & Tensioner Attachment: Sizes > 74" x 81 1/2"*

CAUTION: There is double-sided tape on the back of the magnet operator for the mini-blinds. Once the tape is removed and the magnet is attached to the door, it cannot be adjusted. Make sure to follow these procedures to insure proper alignment:

Photo #21



1 Position the external magnet after carefully cleaning the glass area where it will be placed. For proper operation, the external magnet must be perfectly interfaced with the internal one. Therefore, before removing the adhesive protecting film, position the external magnet on the glass next to the internal one. Verify smooth raising and lowering of the blind. Then remove the film and position the external magnet on the glass following the magnetic attraction. (Photo #21)

Photo #22



2 Position the cord tensioner, keeping the cord in tension. The operator tip on the cord tensioner should be positioned at approximately the line on the tensioner or slightly higher to keep the cord engaged. Excessive tension on the loop will hinder cord movement. (Photo #22)

• *Note: Pulling the cord on the right side lowers the blind, while pulling the cord on the left side raises the blind. Small adjustments by pulling on the right and left side of the cord will enable optimum slat positioning.*



Close-up of External Magnet & Cord



Close-up of Cord Tensioner

*White blinds may come cordless; see step 11B. All other colors will be corded.

Step 11B Cordless Side-Slide Lift and Tilt Operator: Sizes $\leq 74'' \times 81\frac{1}{2}''$

Photo A



Photo B



If you are installing a door smaller than or equal to $74'' \times 81\frac{1}{2}''$, you may be installing a door with a Cordless Side-Slide Lift and Tilt Operator. Photo A is of the Lift Operator (on side), and Photo B is of the Tilt Operator (on top).

Note: These operators are factory installed.

For Doors with Optional Vent Latch Step 12 Vent Latch & Keeper Attachment

Note: If you are installing an optional vent latch, attach the keeper to the sill BEFORE installing the frame.

Note: Attach the vent latch AFTER the door is completely installed and any adjustments are made.

Parts: Latch, Keeper, Latch Locator Template, 4 - #8 x 1 1/4" white-head latch screws, 2 - #8 x 1 1/4" brown-head keeper screws.

Photo #23

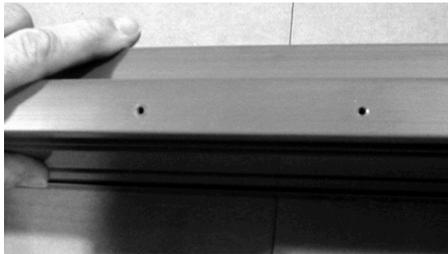
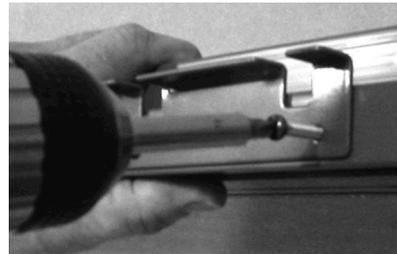
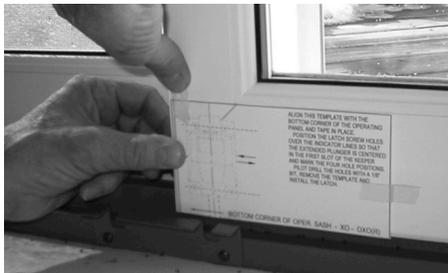


Photo #24



1 Attach the keeper to the sill with the 2 #8 x 1 1/4" keeper screws. (Photos #23 & #24)

Photo #25



2 Align the locator template with the bottom corner of the operating panel and tape in place. (Photo #25)

Note: One side of the template is for XO doors; the other side is for OX doors.

Photo #26



Photo #27



3 Position the latch screw holes over the indicator lines so that the extended plunger is centered in the first slot of the keeper and mark the four hole positions. (Photos #26 & #27)

Photo #28



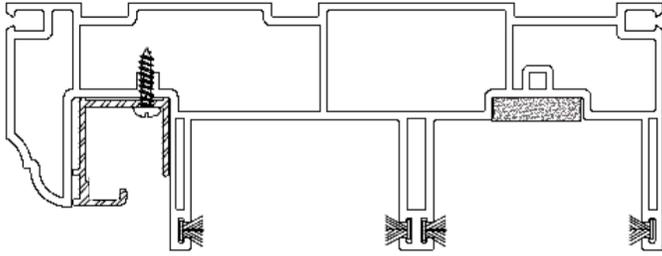
4 Pilot drill the holes with a 3/32" bit. (Photo #28)

Photo #29

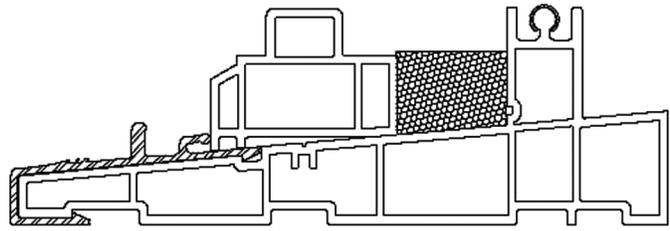


5 Remove the template and install the latch. (Photo #29)

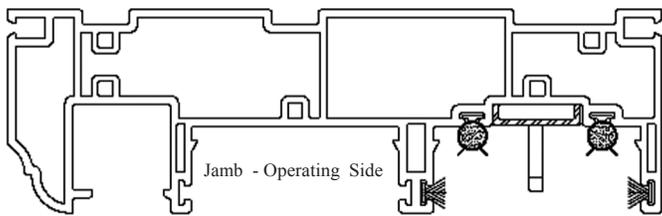
Frame Package Contents



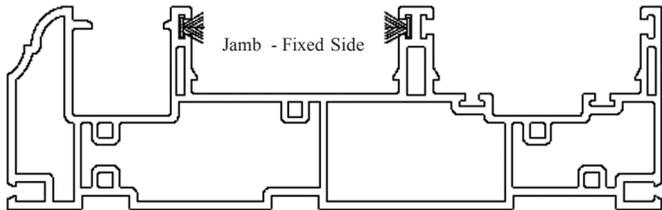
A Head with Roller Track



B Sill



Jamb - Operating Side

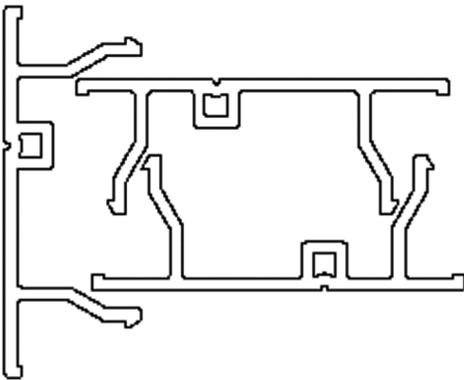


Jamb - Fixed Side

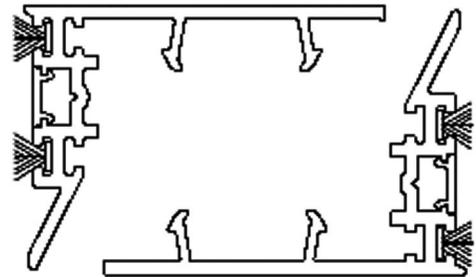
C Jambs



E Interlock Screw Cover



F Interior/Exterior/Head Pocket Covers

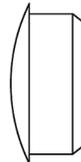


D Interior/Exterior Interlocks

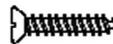
SCREW PACKAGE CONTENTS

G

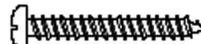
SCREW HOLE PLUG
10 - 3/8" Diameter



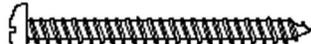
INTERLOCK SCREW
5 - # 6 X 3/4"



FIXED-PANEL SECURITY SCREW
3 - # 8 X 1 1/4"



FRAME ASSEMBLY SCREW
20 - # 10 X 2"

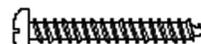


INSTALLATION SCREW
10 - # 8 X 2 1/2"

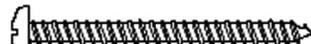


EXTRA SCREW PACKAGE FOR 3-PANEL DOORS

FIXED-PANEL SECURITY SCREW
6 - # 8 X 1 1/4"



FRAME ASSEMBLY SCREW
8 - # 10 X 2"



INSTALLATION SCREW
5 - # 8 X 2 1/2"

