

*Signature*  
**SLIDING**  
**PATIO DOORS**

INSTALLATION INSTRUCTION MANUAL

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## **PRECAUTIONS AND SAFETY:**

### General Precautions:

Do not work alone; we recommend using at least two people for installation to avoid personal injury or damage when working with patio doors.

Use caution when handling glass; broken or cracked glass can cause serious injury.

Wear necessary protective gear (gloves, safety glasses,)

Avoid wearing loose clothing, rings, or jewelry.

Secure tools when working on a ladder or scaffolding.

Secure and properly support the door until completely finished.

## TOOLS REQUIRED

Drop Cloth

Utility Knife

Tape Measure

Rubber Hammer

Level

Phillips Head Screwdriver

Flat Head Screwdriver

Silicone Sealant

Shims

## **Step 1: INSPECT AND PREPARE DOOR**

### **Inspect Door**

Before beginning installation, inspect the door and confirm that you have the correct size, color, grid pattern, and that it is for the correct left hand or right hand operation. Also check for any obvious damage or defects. Measure the existing door and confirm that the new door unit will fit in the opening.

Unpack the frame pack and make sure that you have the following parts before beginning installation:

Item	Amount	Checked
Installation Manual		<input type="checkbox"/>
(B) Sill		<input type="checkbox"/>
(A) Head		<input type="checkbox"/>
(C) Jambs (2)		<input type="checkbox"/>
Door Panel (Movable-X)		<input type="checkbox"/>
Door Panel (Fixed-O)		<input type="checkbox"/>
(D) Interlocks	2	<input type="checkbox"/>
Interlock Screw Covers	2	<input type="checkbox"/>
(F) Pocket Covers	3	<input type="checkbox"/>
Screen Door	1	<input type="checkbox"/>
Handle	1	<input type="checkbox"/>
Screw Pack	1	<input type="checkbox"/>
Roller Adjuster Hole Plug	2	<input type="checkbox"/>
Door Stop	1	<input type="checkbox"/>

Additional parts for a three section door:

Door Panel (Fixed-O)		<input type="checkbox"/>
(H) Exterior Mullion (Astrigal)		<input type="checkbox"/>
(I) Interior Mullion (Astrigal)		<input type="checkbox"/>
(F) Pocket Cover		<input type="checkbox"/>

## **STEP 2: PRE-INSTALLATION INSPECTION**

Verify that the rough opening is square, level, plumb, and true.

## **STEP 3: MASTER FRAME ASSEMBLY**

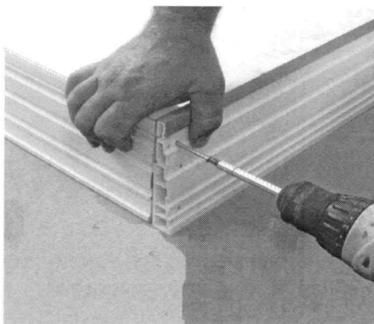
1. Clean with denatured alcohol the ends of head, jamb, and sill and any area that sealant will contact.

2. Assemble frame with 20 #10 x 2.25" screws provided. **Do not use drywall screws.** Note that the jambs are right and left handed. The angle cut should be located at the bottom with the long point toward the outside. A sealing gasket is located at the end of each jamb.

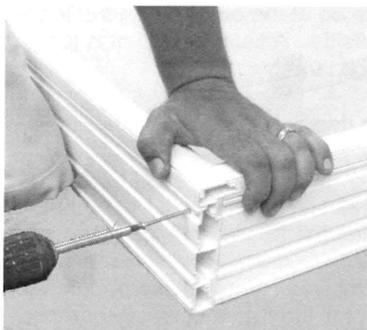
[For 3 section door: Attach interior mullion post with 9 screws; #10 x 2.25"]

3. Make sure all screws are tight but do not excessively deform the vinyl walls.

4. Once assembly is complete two people will be required to install the frame correctly and to avoid placing stress on the joints or corners when moving the frame into position.



Attach sill to right jamb.



Attach head to right and left jambs.

#### **STEP 4: MASTER FRAME INSTALLATION**

Caulk around the perimeter of the blind stop and along the sill where the door will rest.

Position the door in the opening so that it is equally spaced in the opening. The door should be plumb, level, and square. Ensure that there is no more than  $\frac{1}{4}$ " shim space at the sides and top of door. Plastic or nylon shims are recommended but wood shims are acceptable.

Set master frame in a continuous bed of sealant. Three rows of sealant ( $\frac{3}{8}$ " diameter) along the entire sill and 6" up the back side of each jamb. Shim level from front to back and end to end. Again, **make sure that the entire frame is plumb, square, and level.** A String line, laser level, or conventional level may be used to make sure the head is level and parallel to the track and that both jambs are vertical and parallel to each other.



Check jamb for level.

Attach three #10 x 2.25" installation screws into the fixed panel pocket of the jamb. Use only the pan head screws provided. **Do not use drywall screws.** The first will be located 3-6" below the head and the second 3-6" above the sill in the center of the pocket opposite the fixed panel. A third screw will be located in the middle of the jamb. Similarly, attach three installation screws in the pocket opposite the keeper.



Attach installation screw in pocket opposite fixed panel  
(OX door shown)



Attach installation screw inside pocket of left jamb



Shim the jambs as necessary, then be sure to locate the installation screw through the frame and the shim. Do not warp or bow the jamb by over-tightening the installation screws.

### **STEP 5: FIXED PANEL INSTALLATION**

Unpack the fixed panel and inspect for defects. Insert top of fixed panel into outer head pocket and lift onto the sill shim. Slide the sash into the frame pocket until the sash is flush with the end of the sill insert. **Do not anchor the fixed panel at this time.** You will anchor the fixed panel once the movable panel has been installed and the door has been locked.

For 3 section door only, otherwise skip to  
Continue Installation:

Lift the second fixed panel and place it onto the fixed panel shim. Since there are two fixed panels you must make sure that the wide stile goes into the frame and the drain holes are downward. Insert the exterior mullion, positioning the head end first and making sure the notches on the sill end line up with the sill track. Use a soft mallet to finally tap the bottom to its final position. Attach the mullion to the fixed sash panel using 3 - #10 x 2.5" screws. Do not over tighten. Finally, attach the exterior mullion post to the interior mullion post using 5 - #8 x 1.25" screws evenly spaced.]

#### Continue Fixed Panel Installation

Locate the fixed panel interlock and snap in the interlock beginning at the bottom and continuing to the head. Note that the bottom is cut at an angle to match the slope of the sill. Use a rubber mallet or a hammer on a wood block. Striking the interlock directly with a hammer will damage the vinyl.

Verify that there is no gap between the interlock and the frame head on the inside surface of the sash.



Check for gap at top of Interlock

If a gap exists, you must fill it with weatherstrip in order to avoid air infiltration. Once installed, anchor the interlock with at least 9 of the provided screws. This is in order to make sure that the interlock is flush and does not interfere with the movable panel. Installation with less than 9 screws is not recommended.



Snap interlock on fixed panel  
and anchor with at least 9 screws

A screw cover is provided which will snap into the anchor screw channel and hide the screws. Using hand pressure, begin at one end and push the cover into the groove.

## **STEP 6: MOVABLE PANEL INSTALLATION**

Lift the panel into the inner pocket of the frame and place the sash onto the roller track. At this time, snap in the movable panel interlock. Begin at the bottom making sure that the shorter leg is even with the bottom of the sash. It is not necessary to anchor this interlock with screws. Use a rubber mallet or a hammer on a wood block. Caution: striking the interlock directly with a hammer will damage the vinyl. Once the interlock is installed, snap in the screw cover if it is not already installed.

Adjust the wheels through holes in front of the panel to ensure that the panel is even with the jamb and moves smoothly. Do not use power tools to adjust rollers. The movable panel must be parallel to the jamb in order for the lock to completely engage all three of the keeper hooks. With the help of an assistant, lift the weight of the door from the rollers. Lift the rollers with a #3 Phillips head and return weight to the roller. With the use of the lock alignment tool check the panel for alignment to the jamb and to the center keeper hook and repeat the wheel adjustment as necessary. Install covers over wheel adjustment holes.

## **STEP 7: HANDLE INSTALLATION**

Attach the handles to the escutcheons so the curve of the handle is away from the side jamb and toward the glass. Use care to not scratch the escutcheons when using the provided screws to attach the handles. When installing the interior escutcheon be sure to align the actuator pin with the input slot in the lock so that the turn piece is in the vertical position. If you are installing the trimset with the optional key cylinder then you must follow the instructions provided with the trimset.

Close the door and test the installation of the handle set. Gently close the movable panel and check for accurate alignment of the keeper. Do not slam the door closed as this will cause the movable panel to bounce back out of the pocket and the lock will not engage. If the door does not lock then loosen the keeper screws and adjust the keeper up or down. If the lock lever is difficult to operate or the panel will not lock then please refer to the appendix guide on locking troubleshooting.



Handle Installation

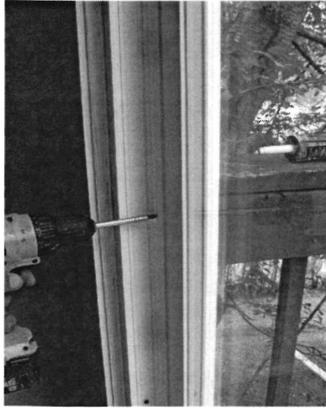


Keeper adjustment

## **STEP 8: POCKET COVER INSTALLATION**

Install the pocket covers in their respective locations. Each pocket cover has a different cut length or processing. Install the movable panel jamb pocket cover closest to the keeper before the head pocket cover. Finally, install the sash stop in the movable sash head pocket.

## STEP 9: FIXED PANEL ANCHORING



Attach fixed panel with screws through wall of pocket with three 1.25" screws placed at the center, 6" from the top and 6" from the bottom.

## **STEP 10: SCREEN INSTALLATION**

Install the screen in the screen track and adjust the rollers to obtain an even parallel gap between the screen and the door frame. Locate the keeper with the hook facing down. The lock release must function by pushing down on the release button. If necessary, remove the screen lock mounting screws, remove the lock, and replace in the proper orientation. Be careful to avoid losing the return spring. Verify that the lock properly engages the keeper.

## **STEP 11: COMPLETION**

Seal any gaps or openings at the end of any horizontal joints with silicone sealant.

Ensure that weep holes are clear of debris and/or sealant for proper water drainage. Do not seal weep holes.

Inspect the installed door for any damage that may have occurred during remaining construction.

## **Appendix A: Locking Difficulties**

Note: the movable panel must be closed in order to actuate the lock. Do not slam the door when closing.

If you are unable to lock the door then follow these instructions:

1. Verify that the gap between the sash and the jamb is even and that the sill is level.
2. If not, shim as necessary and check roller adjustment.
3. With the sash open, depress the tongue inside the lock box and, at the same time, turn the lock mechanism by inserting a flat bladed screwdriver in the actuator slot. Check for binding of the lock mechanism and at each lock extension piece.
4. If binding exists and cannot be corrected then the lock box and/or extensions must be replaced.
5. Once you have verified that the lock moves freely, try closing the door and locking it by using the screwdriver blade through the actuator slot.
6. If the door does not lock then adjust the keeper and retry.  
Important: do not install the handset until you are able to lock the door without the handle.
7. If the door locks then proceed with re-attaching the handle.
8. Re-install the handle and check for free motion as with Step 3 above. If there is any roughness or binding then it is caused by the actuator pin passing at an angle through the actuator slot. Loosen the handle slightly and raise very slightly either the inside or the outside handle until the locking mechanism turns easily.
9. Verify that the door locks properly. Repeat Step 8 if necessary.



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