Ultimate Swinging Screen for Inswing French Doors and Arch Top French Doors

Installation Instructions

MARVIN®
Windows and Doors
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2011-02-28
19970256

BEFORE YOU BEGIN

Read these instructions thoroughly before beginning to assemble and install your Ultimate Swinging Screen Door. Inspect parts shipped with unit for damage and that all assembly parts have been received. Instructions for installing the handle are with the handle set.

WARNING: Practice Safety! Wear safety glasses or goggles.

Installation Tip: For ease of installation remove screen inserts from the panels. See index for location of Insert removal. 6 9/16″ wood Inswing French door installations will require the help of an assistant or removal of screen door panels (remove hinge screws) from Z-bar prior to installation.

You Will Need to Supply:

Rubber mallet	Safety glasses
1/8″ and 1/16″ drill bit	Screw gun
#1 and #2 Phillips bit	Utility knife
Straight slot screwdriver	Flat pry bar

Power miter saw with carbide blade for cutting aluminum

NOTE: For 3 and 4 wide units you will need to replace the mull post. See parts manual for the correct mull post for your unit.

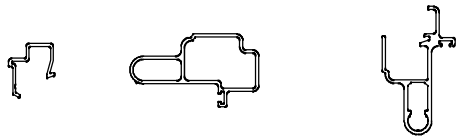
INDEX

	Page
Install Jamb Adapters	3
Install Head Jamb Z-bar	3
Install Hinge Jamb Z-bar	3
Install Hinge Jamb Z-bar (6 9/16″ Jambs)	4
Aligning the Panels	4
Sill Sweep Weather Strip	4
Sill Sweep Adjustment	4
Install Screen Door Closer	4
Adjust Closing Tension	5
Adjust Closing Speed	5
Mesh Screen or Storm Insert Installation	5
Mesh Screen or Storm Insert Removal	5
Optional Top Screen Door Closer Installation	5
Adjust Closing Tension	6

Ultimate Swinging Screen - Parts Shipped: (X = One Wide) (XX = Two Wide)

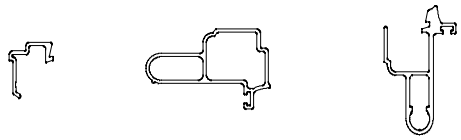
Main Shipping Carton

X	XX	
1	2	Ultimate panel w/ screen insert, attached hinge Z-bar, sill sweep
0	1	Astragal assembly (attached to passive panel of double)
2	2	Jamb adapter (a)
1	1	Head jamb Z-bar (b)
1	0	Latch stile Z-bar (c)
1	1	Instruction Manual
1	1	Premium handle kit (see handle kit breakdown)
1	1	Active panel closer kit (see closer kit breakdown)
1	1	Installation screws and hardware kit (see following page)



(a) A1958 (b)A1948 (c) A1964

For 1 3/4" panel UIFD manufactured on or after 02/28/2011



(a)A2022 (b) A2023 (c) A2024

For 1 3/4" panel UIFD manufactured prior to 02/28/2011 and all other inswing doors

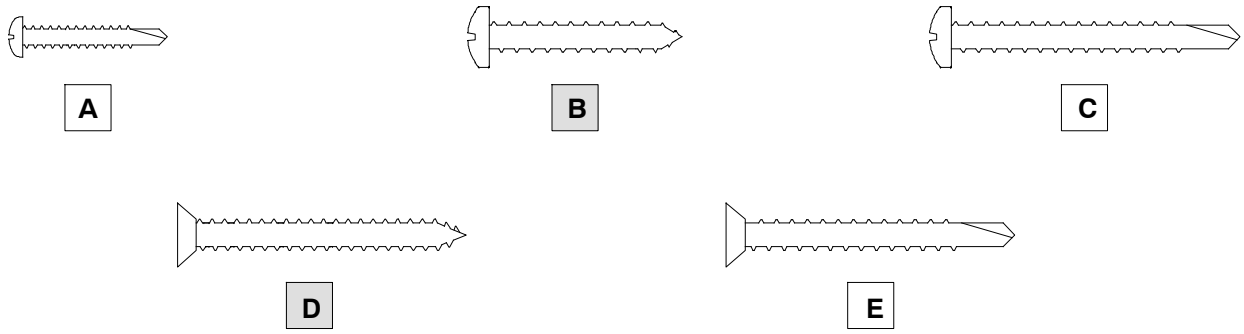
Closer Kit

1	Closer assembly
1	Closer hold open bracket
1	Door bracket
2	Door bracket screws #10 x 5/8″
1	Jamb bracket
4	Jamb bracket screws #10 x 1″
1	Head jamb bracket (optional usage)
1	Short connecting pin (closer rod to jamb bracket)
1	Split connecting pin (closer rod to head jamb bracket) [optional usage]
1	Long grooved connecting pin (closer cylinder to door bracket)

Glass Carton

X	XX	
1	2	Optional Glass Insert

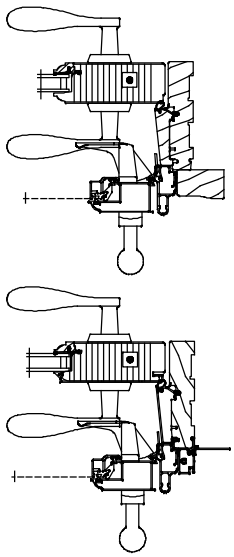
IMPORTANT: Screw and hardware kit includes parts for 4 9/16″ and 6 9/16″ Marvin wood and clad Inswing French Door configurations. Please use chart to determine which screws are required for your door.



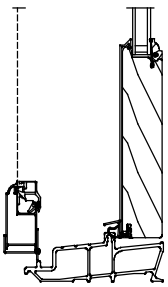
ID	Screw and Hardware Kit	Quantity		Jamb Mounting				Mull Post Mounting	
	Identification and Application	**X**	**XX**	**Clad 4 9/16″**	**Clad 6 9/16″**	**Wood 4 9/16″**	**Wood 6 9/16″**	**Clad**	**Wood**
(A)	#4 x 3/4″ Self tapping pan head screw (Jamb adapter attachment)	14	14	Y	Y	Y	N	Y	Y
(B)*	#8 X 1″ Standard pan head screw (Hinge Z-bar attachment)	8	16	Y	Y	N	N	Y	Y
(C)	#8 x 1 1/2″ Self tapping pan head screw (Hinge Z-bar attachment)	8	16	N	N	Y	Y	N	N
(D)*	#8 X 1 1/2″ Countersink flat head screw (Head jamb Z-bar attachment)	9	6	Y	N	N	N	Y	Y
(E)	#8 x 1 1/2″ Self tapping flat head screw (Head jamb Z-bar attachment)	9	6	N	Y	Y	Y	N	N
	0.24″ Panel hinge shims (Panel alignment adjustment)	16	16	Y	Y	Y	Y	Y	Y

*NOTE: * Use for 4 9/16″ Clad OXX or XXO mulled units; longer screws may penetrate through exterior side of the door frame or mull post.*

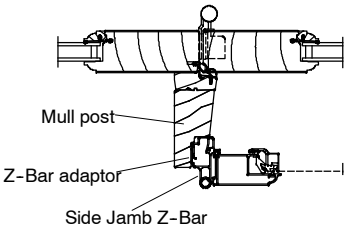
Jamb, Sill and Mull Post Details



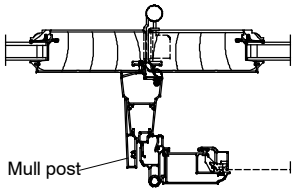
4 9/16″ Clad Ultimate Inswing Door Sill Detail



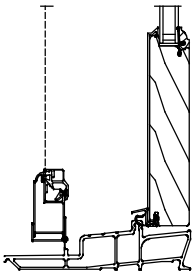
4 9/16″ Wood Ultimate Inswing Arch Top French Door Jamb Detail



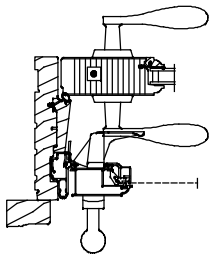
4 9/16″ Clad Ultimate Inswing Arch Top French Door Jamb Detail



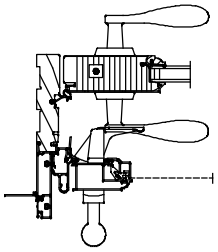
6 9/16″ Clad Ultimate Inswing Door Sill Detail



6 9/16″ Wood Ultimate Inswing French Door Jamb Detail



6 9/16″ Clad Ultimate Inswing French Door Jamb Detail



Unpack unit and separate jamb adapters and head jamb Z-bar from panels. See page 2 to determine which screws are required for assembling your unit. For ease of handling remove screen/storm panel(s) and reinstall after unit has been installed.

Install Jamb Adapter

For jamb adapter placement on your French door see jamb and mull post details on page 2. Do not pre-drill or install screws in the top hole of the jamb adapter. This will help in aligning the mitered corners when fastening the Z-bars.

NOTE: For 6-9/16″ jamb wood units the Jamb adapter is assembled to Z-bar and not screwed to jamb. See next page.

1 Place and center the jamb adapter against jamb so there is an even space between the jamb adapter and sill and jamb adapter and head jamb. See figure 1.

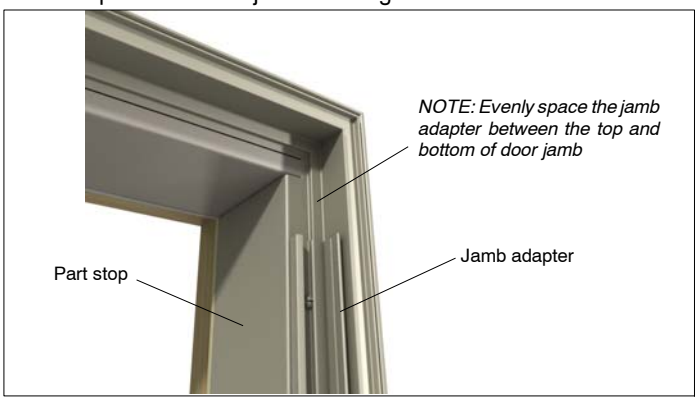


Figure 1

2 Make sure the jamb adapter is seated and tight against the jamb and part stop. Using the pre-drilled holes in the adapter as a guide, drill 1/16″ pilot holes Use the #4 x 3/4″ (A) self tapping pan head screws to fasten the jamb adapter to the part stop through the pre-drilled holes in the jamb adapter. See figure 2.

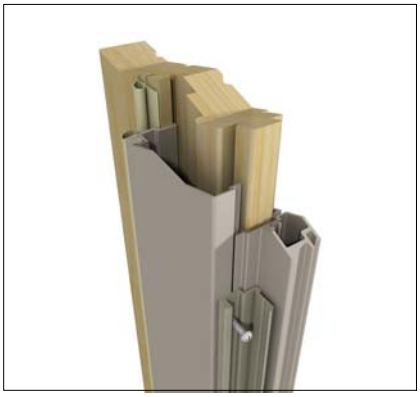


Figure 2

3 Repeat above process for the other jamb adapter.

Install Hinge Jamb Z-bar

NOTE: Arch Top door sills shown for illustrative purposes unless otherwise noted. For wood 6 9/16″ Jamb Z-bar see next page.

1 Unpack a screen door panel and orient correctly in front of the door by using the Z-bar top miter joint as a guide. Lift and align the bottom of the hinge Z-bar (attached to panel) to the sill contour. See figure 3. Guide the leg of the Z-bar between the jamb adapter and the jamb.

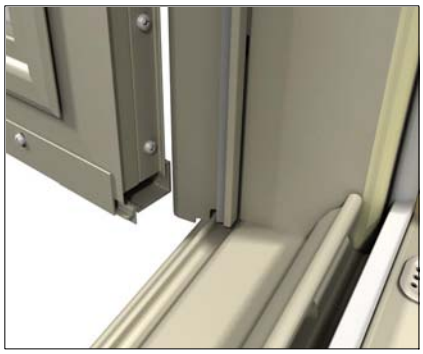


Figure 3

2 With the screen panel in the closed position, engage the hinge Z-bar to the jamb adapter by firmly tapping along the full length of the stop on the Z-bar with a soft rubber mallet and wood block. A "snap" will be heard when the Z-bar is properly seated into the jamb adapter. See figure 4.

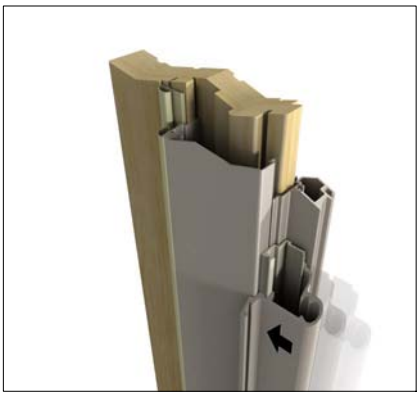


Figure 4

Install Head Jamb Z-bar

1 Once the side Z-bar is properly engaged to the jamb adapter, the screen panel can be carefully opened. If the hinge Z-bar disengages the jamb adapter when the panel is opened, the Z-bar was not properly seated; repeat above steps.

2 At the head jamb of the unit, measure the space between the side jamb Z-bars and and cut a 45° miter on the head jamb Z-bar with the miter saw. See figure 5. Place and center the head jamb Z-bar at the unit head jamb between the side jambs. Using the head Z-bar existing holes as a template drill 1/8″ pilot holes into the head jamb. Secure the head Z-bar to the head jamb with the following screws.

- #8x1 1/2″ (D) flat head screws for wood units.
- Use #8x1 1/2″ (E) flat head self tapping screws for clad units. See figure 5.

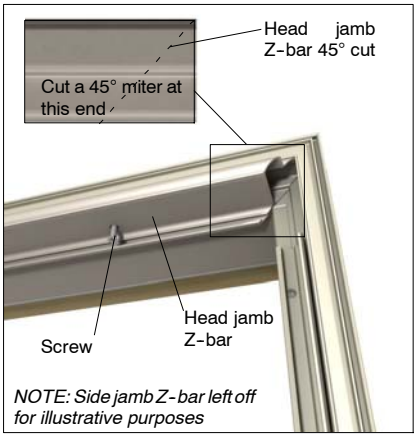


Figure 5

3 Insert a flat pry bar between the sill and hinge Z-bar to carefully slide the hinge Z-bar upward until the miters of the head Z-bar and hinge Z-bar align. See figure 6.

Figure 6

4 Prior to pre-drilling the holes in the hinges, align the side jamb and head jamb miter by moving the side jamb Z-bar up and down and in and out. While holding the side jamb Z-bar in place pre-drill through the holes in the hinge Z-bar with a 1/8″ drill bit through the jamb adapter and first wall of the unit cladding. Install and tighten the appropriate sheet metal screws: See figure 7.

- #8 x 1″ (B) pan head screws for clad and mulled units
- #8 x 1 1/2″ (C) pan head self tapping screws for wood units.

Repeat for all holes at hinges, including other jamb for XX units. See figure 7.

Figure 7

Hinge Jamb Z-bar Installation Procedures for Wood Doors With 6 9/16″ Jambs

NOTE: This step will require an assistant

1 Assemble the jamb adapter to the Z-bar by snapping the extrusions together. See figure 8.

2 Center the jamb adapter along the length of the Z-bar.

3 With the panel in the open position, slide the Z-bar/ jamb adapter assembly into position on the jamb.

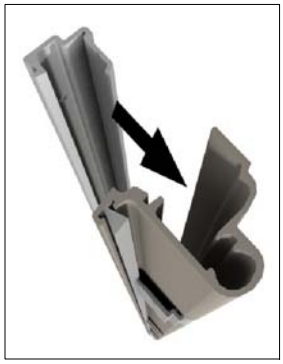


Figure 8

4 Align the miter joint of the Hinge Z-bar and the head Z-bar and hold in place; insert the following appropriate screw, see figure 9, and tighten:

- #8x1″ pan head screws (B) for clad and wood mulled units
- #8x1 1/2″ pan head self tapping screws (C) on wood units.

NOTE: Continue for XX configuration and skip to Sill Sweep Weather Strip for X configuration.

Figure 9

5 Repeat above steps for the other panel on two wide screen doors.

Align the Panels

1 Close the inactive panel and engage the top and bottom flush bolts. If the inactive panel top flush bolt does not engage, the panel position can be adjusted by inserting the supplied hinge shims (F) between the inactive panel and hinges. Open the inactive panel and depending on which direction the panel needs to move remove the hinge screws. Insert the necessary size and number of shims to ensure that the flush bolt engages the top Z-bar and tighten screws. See figure 10

NOTE: Use no more than 2 shims per hinge.

Figure 10

2 If the gap between the passive and active panel is not even repeat the alignment procedure for the active panel.

3 Install handle and latch per instructions with handle.

Sill Sweep Weather Strip

1 Use a utility knife to trim the weather strip ensuring that there is a complete seal across the entire length of the sill. See figure 11.

Figure 11

Sill Sweep Adjustment

1 Check to see if sill sweep is resting on sill track evenly. If not, loosen screws, adjust sill sweep, and tighten screws. See figure 11.

Screen Door Closer Installation

NOTE: For optional head jamb installation on rectangle doors see step 34.

1 Position jamb bracket in lower inside corner of door frame on the side jamb 1 1/4″ (32) above the sill and 1 1/8″ (29) from the face of primary door. See figure 12. Mark and drill four 1/8″ pilot holes.

2 Attach jamb bracket with four #10 x 1″ screws from closer kit. See figure 12.

Figure 12

5 Place hold-open-washer on closer rod and position over lugs. This will give proper tension for installation. See figure 13.

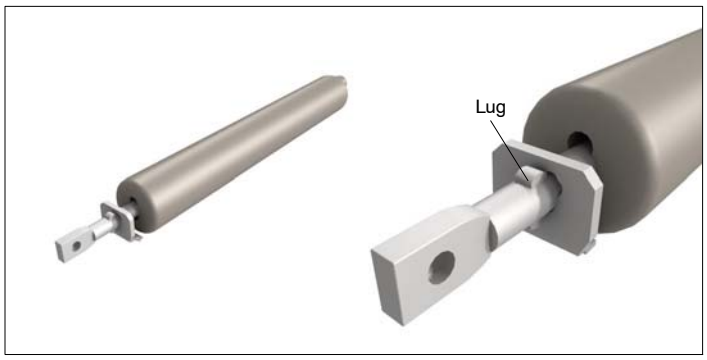


Figure 13

4 Close and latch the door. Attach the closer assembly to the door and jamb brackets with the door and jamb bracket connecting pins. See figure 14.

5 Hold closer assembly and door bracket in a level position. Mark and drill 1/8″ hole in end of the adjustment slot. See figure 14 (CAUTION: DO NOT drill through both sides of screen panel).

6 Attach door bracket with a #10 x 5/8″ screw in the adjustment slot.

Figure 14

Adjust Closing Tension

1 Adjust closing tension by moving the closer door bracket. Tighten screw in the adjustment slot.

2 Operate door to verify that it closes satisfactorily.

3 Drill remaining 1/8″ hole and secure with the other #10 x 3/4″ screw as provided in kit.

Adjust Closing Speed

1 To vary the closing speed of the screen door, use a screwdriver to rotate the closing speed adjustment screw located at the door bracket end of cylinder assembly. See figure 15.

Figure 15

Mesh Screen Or Storm Insert Installation

1 Place insert into the panel opening and push firmly at the perimeter to snap insert into place. See figure 16.

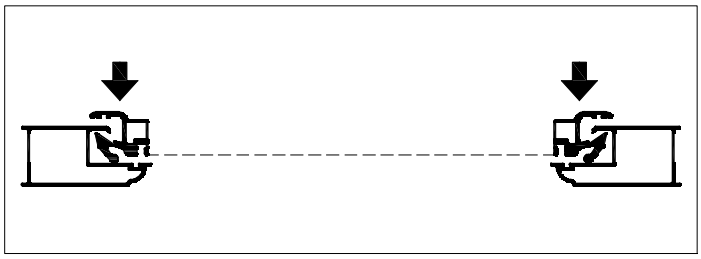


Figure 16

Mesh Screen Or Storm Insert Removal

1 Slide insert to the left or right to disengage locking mechanism on the opposite side. Rotate disengaged side of insert from panel and lift insert from panel. See figure 17.

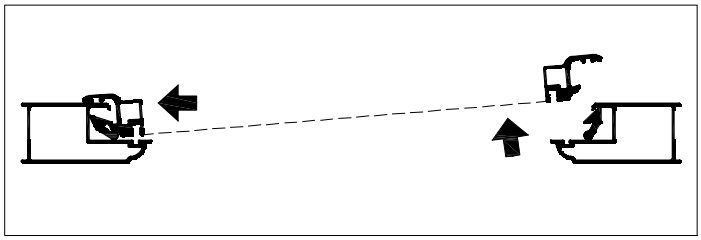


Figure 17

Optional Top Screen Door Closer Installation

1 Position head jamb bracket in upper inside corner of door frame against side jamb and 3/8″ (10) from face of door. Mark and drill three 1/8″ pilot holes.

2 Attach head jamb bracket with #10 x 7/8″ screws. See figure 18.

Figure 18

3 Place hold-open-washer on closer rod and position over lugs. This will give proper tension for installation. See figure 19.

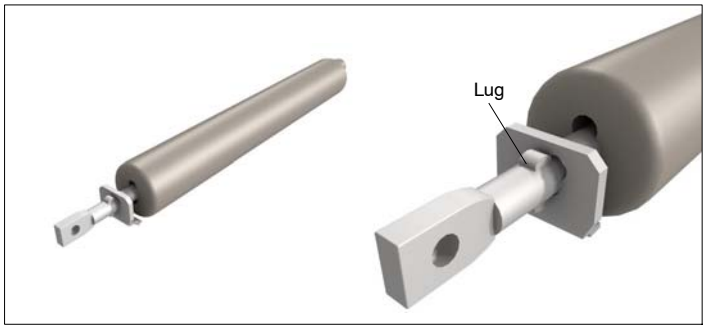


Figure 19

4 Close and latch the door. Attach closer assembly to the door and jamb brackets with the door and jamb bracket connecting pins. See figure 20.

Figure 20

5 Hold closer assembly and door bracket in a level position. Mark and drill 1/8″ hole in end of slot opposite cylinder. (Use caution: DO NOT drill through both sides of screen panel).

6 Attach door bracket with a #10 x 5/8″ screw in the adjustment slot.

Adjust Closing Tension

1 Adjust closing tension by moving the closer door bracket. Tighten screw in the adjustment slot.

2 Operate door to verify that it closes satisfactorily.

3 Drill remaining 1/8″ hole and secure with the other #10 x 3/4″ screw as provided in closer kit.