## Installation Screw Packs:

<table>
<thead>
<tr>
<th>Pack</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>#8 x 1/2&quot; Phillips washer head screws</td>
<td>For hinge size z-bar mounting onto door slab on both <strong>leaf</strong> &amp; <strong>piano</strong></td>
</tr>
<tr>
<td>(1)</td>
<td>#7 x 1&quot; Phillips panhead screws</td>
<td>For hinge side of <strong>leaf</strong> z-bar mounted onto jamb</td>
</tr>
<tr>
<td>1)</td>
<td>#6 x 1&quot; Phillips panhead screws</td>
<td>For exterior mounting of z-bar frame for both <strong>leaf</strong> and <strong>piano</strong> hinge z-bars</td>
</tr>
<tr>
<td>(1)</td>
<td>#8 x 1 1/2&quot; Phillips truss head screws</td>
<td>For hinge side of <strong>piano</strong> z-bar mounted onto jamb</td>
</tr>
<tr>
<td>(12)</td>
<td>#6 x 1/2&quot; Phillips panhead screws - color matched</td>
<td>Ten for astragal and two for bottom expanders</td>
</tr>
</tbody>
</table>

### Tools & Materials You Will Need:

<table>
<thead>
<tr>
<th>Tool</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>• Measuring Tape</td>
<td>• Hammer</td>
</tr>
<tr>
<td>• Level</td>
<td>• Hacksaw</td>
</tr>
<tr>
<td>• Pliers</td>
<td>• Drill Bits - 3/32&quot;, 5/16&quot;</td>
</tr>
<tr>
<td>• Power drill</td>
<td>• Square</td>
</tr>
<tr>
<td>• Stiff Utility Knife</td>
<td>• Pencil</td>
</tr>
<tr>
<td>• Soft Mallet</td>
<td>• Phillips and flathead screwdrivers</td>
</tr>
</tbody>
</table>

**Remember:** ALWAYS USE THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

### Your Package Should Contain The Following Components:

Door slab with bottom expander attached to bottom of door slab. Installation z-bars, screw cap covers, vinyl sweeps and hardware kit will ship inside door carton separately from door slab.
**1 MEASURE & INSTALL**

**Step 1** - Opening Width: Take three measurements from the inside of the brickmold: top, center and bottom of opening. Round the smallest measurement to the nearest \( \frac{1}{8} \)", then RECORD THIS MEASUREMENT.

**Step 2** - Opening Height: Take three measurements from the top of the opening to the sill: left, center, and right of opening. Round the smallest measurement to the nearest \( \frac{1}{8} \)", then RECORD THIS MEASUREMENT.

**Note:** Take all measurements from outside the house.

**Step 3** - With the recorded measurements, verify with bar coded label on cardboard box and paperwork to make sure the size and order information is correct.

**Step 4** - Carefully unpack the door, cut straps and remove cardboard.

**Step 5** - Lay door flat down with exterior side down.

**Step 6** - Remove glass and screen insert(s). Important! You will receive the door with sash and screen mounted into door frame and secured with sash/screen clip mounted upside down. Remove the mounted clips and lay aside being careful not to lose the clips. There will be extra sash/screen clips with thumbscrews inside the hardware box to secure the sash/screen at each rivnut location. Due to shipping restrictions, minimal sash/screen clips are mounted onto the door in production line. See Step 9 on page 7 for remounting the sash/screen clips appropriately.
Note: If Eastern Z-Bar is ordered, a ¼" spacer has been attached to the rear side of the z-bar. At installation, drill ⅛" holes through spacer using the installation holes in the z-bar as a guide.

2 MEASURE FOR Z-BAR HEIGHT

Step 1 - If you purchased a door with handleset prep, double check the location of the handleset prep and make sure it does not interfere with the prime entry door handleset.

Step 2 - Subtract ⅛" from opening height measurement. Using this result, measure the hinge and latch side z-bars from the top of the door. There are 2" of excess z-bar at the bottom of the door. Your measurement will fall in this area. Mark and cut the z-bars (see illustration).

Step 3 - Wipe door slab down with a soft cloth to remove any metal burrs.

3 ATTACHING HINGE SIDE Z-BAR

Piano Hinge Type:

Step 1 - Position door onto its side.

Step 2 - Position z-bar ¼" above door and attach using #8 x ½" Philips washer head screws through countersunk holes located on piano hinge. If more support is needed, additional screws can be added at this time.

Leaf Hinge Type:

Step 1 - Position door onto its side.

Step 2 - Position z-bar ⅛" above door and attach using #8 x ½" Philips washer head screws. POSITION OF LEAF HINGE NOTCH MUST STRADDLE OUTSIDE DOOR EDGE (see illustration).
4 INSTALLING BOTTOM EXPANDER

Step 1- Insert the vinyl sweep(s) into groove(s) at the bottom of the expander and pull it to the other end.

Note: The vinyl sweep is packaged in the hardware kit. If the vinyl sweep has become kinked during shipment, place it in boiling water for 3 minutes and the sweep will return to its original shape.

Step 2- Pinch the ends of the sweep groove(s) with pliers so the sweep will not pull out (see illustration).

Step 3- Cut off the excess vinyl with scissors or a knife.

Step 4- Slide the bottom expander over the bottom of the door, pushing it onto the door as far as it will go.

Step 5- Do not install the screws. The screws will be installed at time of final adjustment.

5 INSTALLING DOOR INTO OPENING

Step 1- Tilt the door into the opening making certain to center the door.

Step 2- Hold the door firmly in position and drill a \(\frac{3}{8}\)” pilot hole through the very top of hinge side z-bar mounting hole and install (1) #6 x 1” screw.

Step 3- Using a level, make sure the z-bar runs straight up and down, then drill and install the remaining screws.

Note: It is very important to make sure door is centered into opening. It may be necessary to shim behind the z-bars in order to properly center the door.
**Attaching Header Z-Bar**

**Step 1** - Holding the z-bar header in place, drill a \(\frac{3}{32}\)" pilot hole into the top trim board or brickmold through header mounting hole, maintaining approximately 1/8" clearance between z-bar header and door.

**Step 2** - Fasten the header firmly in place using #6 x 1" screws.

**Attaching Hinge Side Z-Bar**

**Step 3** - Check and make sure the door operates properly.

**Step 4** - With the door open, locate the pre-drilled mounting holes in the z-bar and drill \(\frac{3}{32}\)" pilot holes through the mounting holes and install:

**Attaching Latch Side Z-Bar**

**Step 5** - Cut and install latch side z-bar maintaining approximately 1/16" clearance between the door and z-bar.

**Step 6** - Fasten with #6 x 1" screws.

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*Note: If Z-Bar build out (formerly called Eastern Z-Bar Adapter) is ordered, a ¼" spacer has been attached to the rear side of the z-bar. At installation, drill \(\frac{1}{8}\)" holes through spacer using the installation holes in the z-bar as a guide.*
6 FINAL ADJUSTMENTS TO BOTTOM EXPANDER

Step 1- Adjust bottom expander.
Step 2- Center pilot hole in slot of expander.
Step 3- Secure with (2) #6 x ½" color matched screws.

3 Secure with #6 x ½" color matched screw

7 INSTALLING HARDWARE KIT

Step 1- Remove Template from handleset box and read manufacturer's instructions carefully.

Note: If you ordered a door already handleset prepped, you will not need to drill for template holes.

Step 2- Before drilling for handleset template, make certain the door slab is square in the opening and the location of the handleset will not interfere with the prime entry door handleset.

Step 3- Proceed with installation of handleset.
**Step 1** - Install closer according to manufacturer’s instructions in the closer box. DO NOT INSTALL CLOSER ABOVE A PET DOOR. DO NOT INSTALL A CLOSER ON A KICKPANEL. See above illustrations for correct mounting locations.

**Step 2** - Adjust closer for the winter or summer setting by following the instructions from the manufacturer inside the closer box.
**FINAL ADJUSTMENTS**

**Step 1** - Re-insert glass or screen insert(s). Remount the sash/screen clips with the longest leg securing the sash/screen to frame of door. Additional sash/screen clips will be found inside the hardware box.

**Step 2** - Cut screw cap covers with a hacksaw sized to length of the z-bars for both vertical and horizontal pieces.

**Step 3** - Insert screw cap covers by using a soft mallet or gently tap the screw cap cover into the channel.

**Step 4** - Close door and inspect for proper fit and lock up.

*Note:* Soap or other non-oily product can make the screw cap covers easier to install.