Materials and Tools

with each order: The following materials needed for a standard installation are included

- Shutter panels and frame, if a framed system
- Magnets with striker plates and necessary screws
- Hoffmann keys and glue
- Frame Installation screws 3" long

Tools needed for installation include:

- Steel measuring tape
- Variable speed power drill with driver bits
- 3/32" drill bit

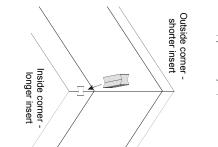
and then snug the screw by hand. driver. Instead, use a power driver to tighten a screw most of the way recommend that you do not make the final turn of a screw with a power the material finish. Damage to the materials made during shutter damage cannot be repaired. installations can also happen when screws are over tightened. We Caution: All screws holes should be pre-drilled to prevent cracking of Once a screw is over-tightened

Frame Assembly

easy. All slots have been pre-routed. Shutter frames are shipped knocked-down (disassembled). Using the supplied Hoffmann keys and glue, reassembly of the frame is quick and

face down on a clean hard surface, lining up the router channels. (Face mount frame is Apply a thin coating of glue to two of the base pictured at right.) pieces of one corner. Hold the corner together

corner, and a 1/2" W2 key (part #WSD120) for the outside corner. Standard Z frames use a 1.1/4" W1 key (Part #WSD119) and deluxe Zachieve a flush fit. Repeat for other corners. slightly twist the corner if necessary, in order to frame with a small hammer or mallet. Check frames and all L-frames use a 1.1/4" W2 key While holding the corner together place an the face of the frame. At this point you can (Part #WSD121). Tap the insert down into the hoffmann key (Part #WSD122) for the inside (for Face Mount frames), use a 1" long W2 insert into the groove. If there are two grooves



T-Post Attachment

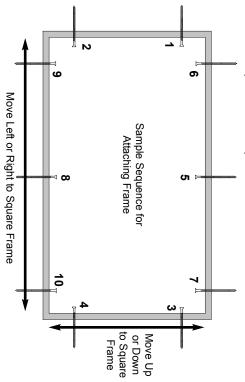
to verify fit. the frame. This can be determined by placing the panels in the frame holes must be pre-drilled. Align the T-posts into the proper position in If one or more T-posts are used, mount them to the frame. All screws frame into the ends of the Tposts. Screw the T-post from the top and bottom, through the (cont.)

> window, after the frame is installed. bottom, the T-post can be mounted only into the T-post in the window. If the frame has no top or Additional screws may be necessary to secure the

Frame Installation

"Z" & "L" Frames Installation

- Center the frame inside or outside the window opening
- Screws should ideally be inserted through the light stop on the frame Remember to pre-drill all screw holes.
- Mount the first screw in the upper left side of the frame, near the top
- Move the bottom of the frame left or right to square the frame
- Shim the frame to keep it in the squared position.
- the hinge pin slides into position. Then re-tighten the hinge screws. hinge screws on the frame and move the panels back and forth until insert hinge pins. If the pins are difficult to insert, slightly loosen the After assuring the frame is level, install the panels. Align hinges and
- in the frame. Place additional screws at each hinge location. If Make adjustments to the frame to make the panels square and level hinges. Assure the the frame is square, and the panels are straight. necessary to align the panels, adjust the screws and shims at the
- Once the frame is square, attach the top of the frame. Mount the first larger units, space additional screws evenly, no more than 30" apart screw in the middle of the frame, and then attach the two corners. On and near the top of each T-post.

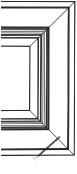


screws as you did at the top of the frame. Attach the bottom of the frame. Mount the first screw in the middle of the frame, and then attach the two corners. Space any additional

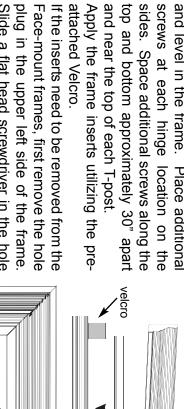
Face Mount Frame and Insert-L frame Installation

are designed to overlap the window by 1/4" on all sides. Lineup the screw on the top right of the frame. Center assembled frame over window opening. FaceMount frames top right corner of the frame to the desired position, and mount a

another screw on the top left. position over the window, assuring the Rotate the frame as necessary into frame is both square and level. Mount



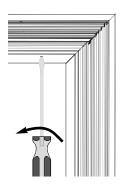
- the hinge pin slides into position. Then re-tighten the hinge screws hinge screws on the frame and move the panels back and forth until insert hinge pins. If the pins are difficult to insert, slightly loosen the After assu uring the frame is level, install the panels. Align hinges and
- Make adj and level in the frame. Place additional ustments to the frame to insure the panels will be square



Apply the

sides. Sp

- If the inserts need to be removed from the attached Velcro.
- Slide a flat head screwdriver in the hole insert will plug in the upper left side of the frame. and twist it in either direction. The frame Face-mount frames, first remove the hole pop up slightly for removal.



Caulking

Caulking may be required to fill in minor gaps between the frame and wall, between mitered corners of the frame, or over the screw heads for the frame installation screws.

Direct Mount Installation

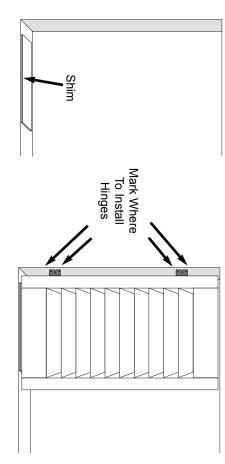
hanging strips. The shutter panels(s) should be flush with the front of the frame, w are screwed To install unframed shutters, the hinges attached to the shutter panel(s) ith the barrel of the hinges just outside the frame. either to the inside of the window frame or back against

To install hanging strip in inside or outside mount applications

- Drill and countersink holes through the hanging strip near the hinges through the rout holes on the back of adjustable hanging strips.) for use with your mounting screws. (CAUTION: Do not drill or screw
- the hanging strips. Use a pencil to mark the wall or trim surface where you want to mount
- Hold the hanging strips on the marks, and fasten the hanging strip to the mounting surface through the middle hole first.
- Hold a level vertically against the hanging strip. Make sure the strip is straight vertically.
- Fasten the holes. hanging strip in this position with the remaining screws and
- Adjustable Hanging Strips will have a $4" \times 1/2"$ slot in the back, with a smaller 2 $1/2" \times 1/8"$ slot going completely through. The narrow slot allows the the wrap h screws to be inserted into the backer plate. The "L" part of inge should be already installed to the Hanging Strip

Installing Shutter Panels - Direct Mount or Hang Strip

- For Direct Mount in a window, place a 1/8" shim in the bottom of the frame on the side where the shutter hinges will be located.
- With the top and bottom hinges open, position the shutter panel in the window on top of the shim. For Hanging strip, center the panels vertically against the Hang Strip. Mark where to attach those hinges



- Hinge pins are removable. Remove the top and bottom hinge pins ONLY, and attach the loose half of the hinges to the inside of the frame. The barrel of the hinges must be outside the frame to allow the shutter panel to open and close properly. If the panel has more than two hinges, do not attach them until after aligning the panel(s).
- Align hinges and insert hinge pins. If the pins are difficult to insert, slightly loosen the hinge screws on the frame and move the panels back and forth until the hinge pin slides into position. Then re-tighten the hinge screws.
- If the window has more than one panel, repeat the procedure to attach its top and bottom hinges to the other side of the window frame.
- Close the panels and check their alignment. To adjust the panels, loosen the screws in the slotted holes, or shim the hinges when Direct Mounting with standard hinges.
- After aligning the panels, attach any remaining hinges to the window frame. Remember to pre-drill all holes.

Adjustments for Adjustable Hanging Strip

To adjust the overlap in the middle:

slots allow for vertical

- Do not loosen the screws
- Tap the foot/base of the hinges on both panels evenly with a hammer to slide the panels away from each other, checking frequently, until you achieve the gap desired.
- Snug screws again if they have come loose.

backer plate that allows adjustment hinge slots allow for horizontal adjustment

To raise or lower the panel:

- Slightly loosen the screws that fasten the hinge to the strip
- Move the hinge and panel up or down as needed.
- Snug the screws

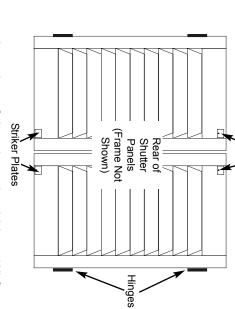
Magnet Attachment (Box magnets - Direct Mount or No frame)

Magnets ensure closure of all shutter panels. They are attached to the top or bottom of the unit. The magnets are positioned to contact striker plates screwed to the rear of the shutter panels near the top or bottom.

Determine the proper location of the magnet by holding either the top or the bottom of the stile against the light stop. If the opposite end of the stile does not rest against the light stop, a magnet is needed at that end of the panel. If it is resting against the light stop, switch ends and repeat the procedure.

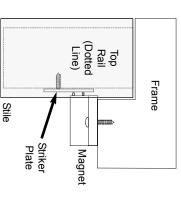
Striker Plates

Fasten the magnets to the light stop only where the panels do not touch the light stops when closed. (Striker plate should be fastened to the rail, not the stile.)



Attach striker plates
where the top or
bottom rails meet the
stiles, as illustrated.
- With frames or light stops, the edge of

- With frames or light stops, the edge of the plate should be 5/8" from the edge of the rail.
- With no light stops, the edge of the plate should be within 1/8" from the edge of the rail.
- The hole for the striker plate screw should be away from the top or bottom edge of the rail so that the flat part of the plate contacts the magnet.
- Note that the striker plates are attached to the side of the panel furthest from the hinge attachment to the frame.
- With the panel(s) closed, mark the frame for magnet placement so that the magnets will contact the striker plates and secure the panels in the proper position.
- Attach the magnets to the frame, or to the sill or upper jamb when no light stop is used. Test their placement by opening and closing the shutter panel(s). Adjust if necessary.



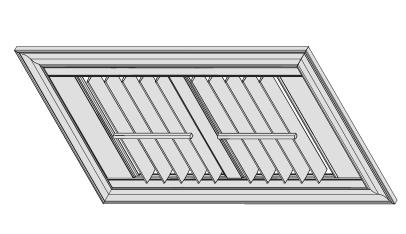
Install Pulls

- Mark location for decorative knobs or handles with a pencil
- Pre-drill holes and install.

Cleaning and Care

Periodic dusting with a feather duster or vacuum cleaner is all Woodwind Plantation Shutters should ever require. The exterior finish resists chipping, cracking, and fading. If necessary, the surface can be cleaned with mild soap and a damp sponge to remove stains.

WOODWIND PLANTATION SHUTTERS



CUSTOM WOOD ALLOY SHUTTERS

INSTALLATION QUICK REFERENCE

152042 - Rev E 11/18/05