

ECLIPSE™
SHUTTERS

INSTALLATION

Installation

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Installation Tools Required

- Rechargeable, variable speed 3/8" drill
- 3/8" diameter drill bit
- 3" Robertson bits of #6 (green handle #1) and #8 (red handle #2) screwdrivers
- Pan-head full thread screws are provided
- Hinge shims (available if requested for no-frame applications only)
- Slot screwdriver
- Non-marring hammer with 1" head for tapping frames into position
- Jig saw, hack saw, Dremmel tool or X-acto knife if cut-outs are required
- Loctite Super Bonder® 414 Instant Adhesive or contact cement required for an outside mount L-frame
- Dap for mitered corners and gaps between the frames and window jambs

Inside Mount with No Frame

1. INSTALL TOP HINGE

- Starting with the left panel(s), place panel into opening.
- Position the panel so it has equal clearance at the top and bottom. Make a pencil mark under the top hinge.
- Install one screw into the window jamb hinge that goes below the top hinge.
- Check to see if the position is accurate by placing the panel into the opening. Insert the top hinge pin into the panel and jamb. If accurate, remove the panel and insert the second screw into the top hinge pin on the jamb.

2. INSTALL BOTTOM HINGE

- Place the panel into position by inserting the top hinge pin into the panel and jamb hinge.
- Mark the bottom jamb where the lowest hinge is on the panel.
- Install one screw into the window jamb hinge that goes below the bottom hinge.
- Check if position is accurate by installing the panel from the top and bottom hinges.
- Shim using available hinge shims if necessary.

3. LEVEL PANELS

- If more panels are to be installed, repeat the first two processes by lining up the panel as the main concern.
- If minor support or leveling is required, turn adjustable jamb cap at the bottom of the vertical jamb to the required spot.

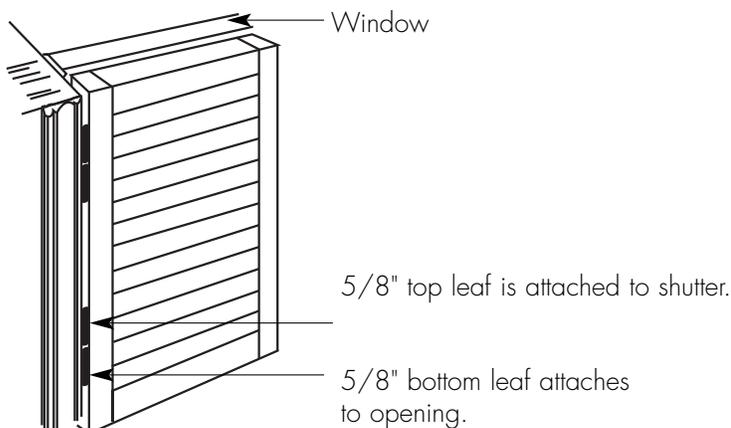
4. INSTALL REMAINING HINGES

- Once panels are level, install the remaining panel hinges while the panels are hanging. Simply open the panels, insert the hinge pin into the hinges and screw the hinges into the window jambs.
- Shim using available hinge shims if necessary.

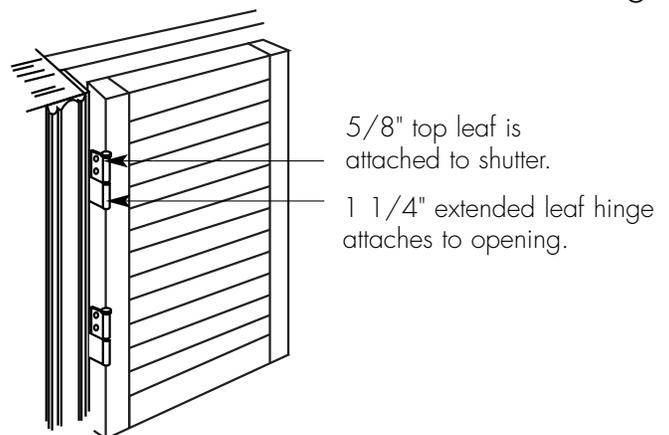
5. INSTALL MAGNETS AND PLATES

- See page I3

Inside Mount (no frame flush with opening)

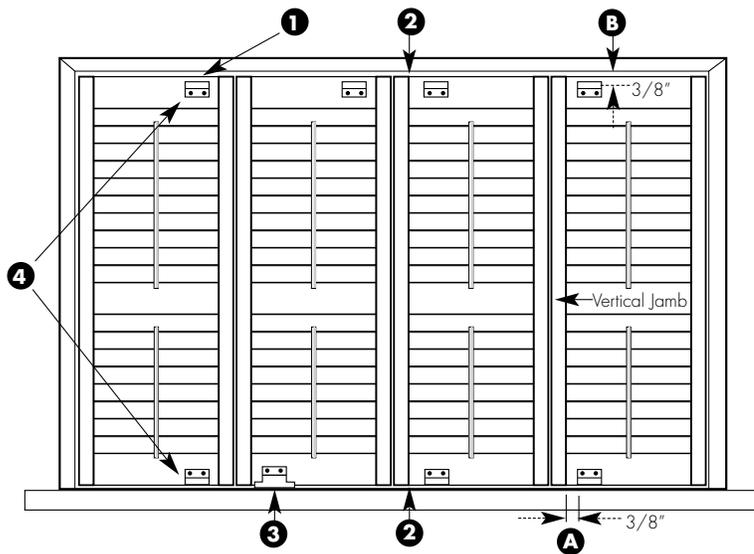


Inside Mount with Extended Leaf Hinge



Note: The extra length allows for 5/8" maximum adjustment, thus minimizing required clearance.

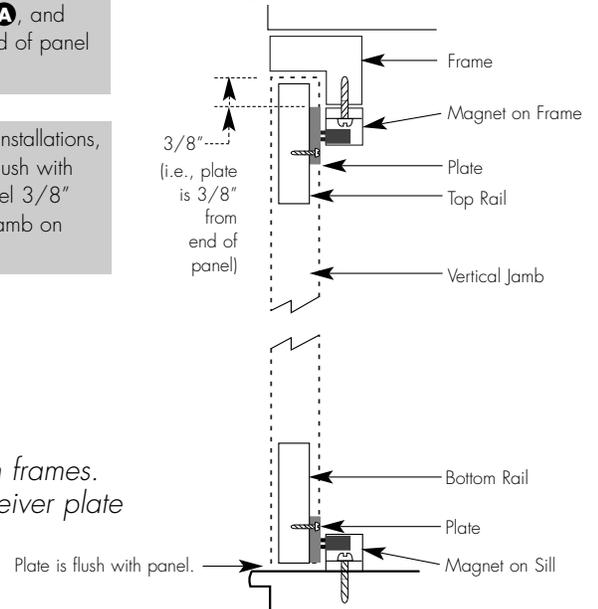
Magnetic Catch Placement



On framed applications, mount plate $3/8$ " from vertical jamb **A**, and $3/8$ " from end of panel on top rail **B**.

On sill mount installations, mount plates flush with bottom of panel $3/8$ " from vertical jamb on bottom rail.

Side View of Magnetic Catch Position



Note: All magnets and catches must be installed. Mount magnets on frames. When there is no frame, mount magnets on window sill or jamb. Receiver plate mounts on bottom and top cross rails.

PROCEDURE

1. Install plate, as shown on drawing, with the holes towards the center of panel
2. With panels closed, pencil mark the sill or frame where the vertical jamb meets the top or bottom rail
3. Install magnet from the mark toward the inside of the panel
4. Install two magnets and plates per panel

Catch Receiver Installation

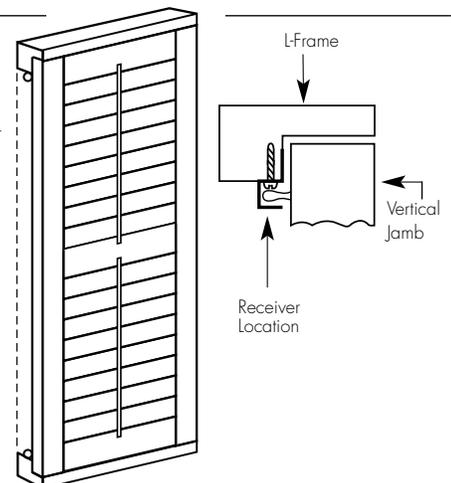
PROCEDURE

1. Install bottom frame
2. Place panel on bottom frame
3. Mark location of top frame
4. Remove panel
5. Install top frame
6. Install each receiver $7/8$ " from the edge of each frame
7. Insert catch into the receiver so the screw is sticking out into the room
8. Carefully place the panel into position
9. Press the panel against the screws to indent the panel
10. Remove the panel
11. Remove catches from the receivers
12. Screw the catches into the indent on the panel
13. Place the panel into position, lining up catch and receiver
14. Tap panel front until catch goes into receiver at each corner

Note: P1FD-CR

- For $2\ 1/2$ " louvers, one L-frame extension is included unless otherwise requested.
- For $3\ 1/2$ " louvers, two L-frame extensions are included unless otherwise requested.

Scribe (optional) →



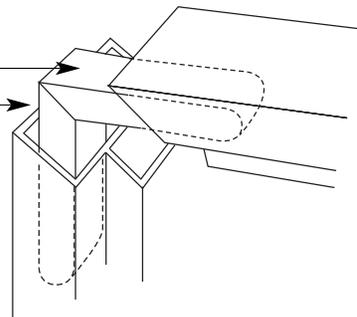
Optional Scribe may be glued on the side or Mounting Strip may be screwed on the back of the panel to minimize or eliminate any side gap that is created when using catch receivers.

Frame Assembly for 3 or 4 sided Frames

BONDING (for L-frame and outside mount only)

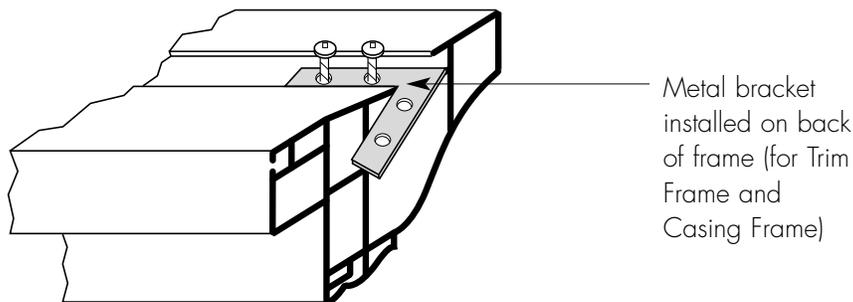
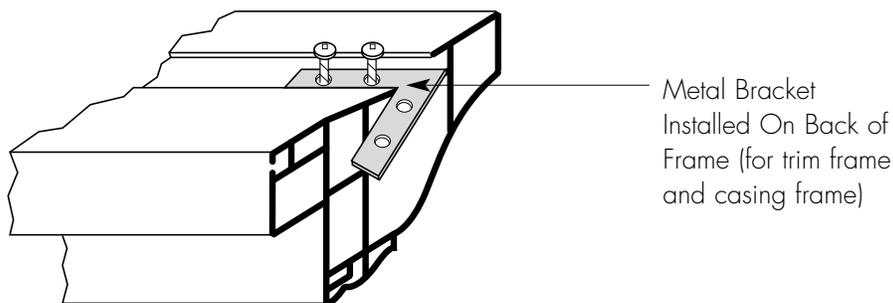
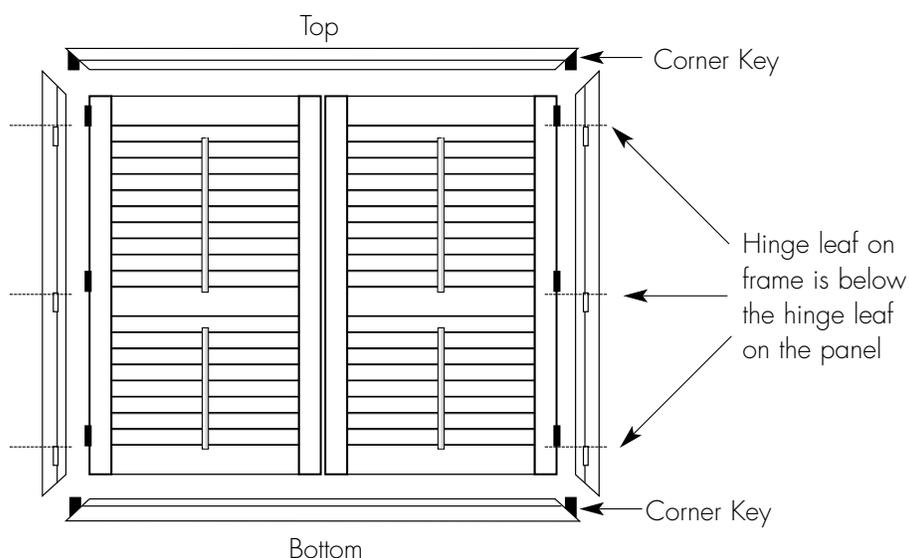
- Apply Super Bonder® 414 (or Contact Cement) to outside surface of corner key.
- Slide frame over corner key. Hold firmly until it is set (10 to 20 seconds).

- Apply Super Bonder® 414 (or Contact Cement) to outside surface of corner key.



ASSEMBLY

- Lay side frames flat beside the panels, so that the panel hinges are above the frame hinges.
- Insert the plastic corner keys on the top and bottom frames first.
- Slide the top and bottom frames into the side frames (Use a small amount of Loctite only after it is determined that the frames match. It will be impossible to detach the corners after they have set.)
- If minor gaps appear, use Dap to seal the corners.
- For Casing and Trim Frames, install a 90-degree metal bracket at the back of the frames for a tight, and more secure assembly.
- If extensions are used:
 - a) L-Frame Extension slides into the frame.
 - b) Casing Frame Extension is screwed to the frame before installation.



Note: For Casing and Trim frames, in addition to the corner key, install a 2 1/2" x 2 1/2" x 1/2" (90°) metal bracket for a more secure corner assembly (do not glue).

T-Posts

1. T-POSTS

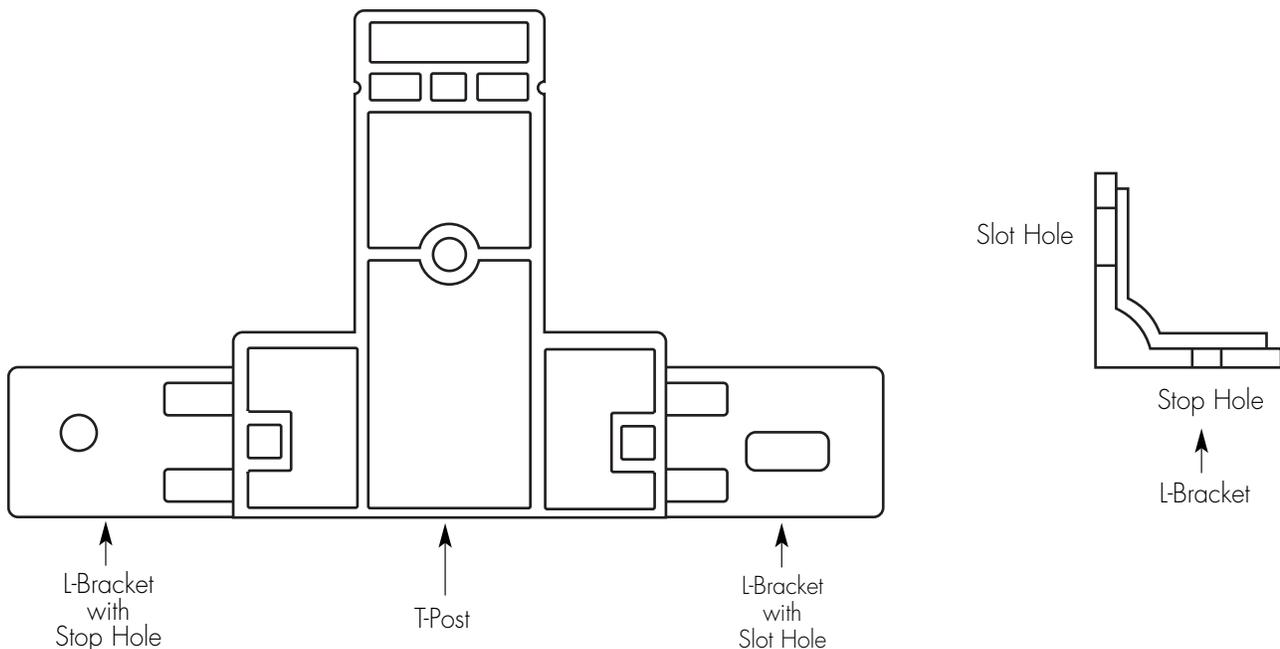
- T-Posts are used as a divider to hinge single bi-fold panels when openings are too wide to hinge panels from the side. T-Posts can be placed directly in front of any existing window divider.

2. IF MOUNTING DIRECTLY TO THE WINDOW MULLIONS

- Drill 3/8" holes through the first layer of Polyresin3® at the front face of the T-Post. Start approximately 2" from the top and drill hole approximately every 10-15 inches.
- Secure the T-Post by screwing in the top and bottom holes.
- Hang panels to the T-Post or hang panels side-by-side against T-Post to ensure even sight lines and all is level.
- Screw in the remainder of the holes.
- Cap with button plugs.

3. IF MOUNTING USING L-BRACKETS

- Attach L-Brackets to the T-Posts. Ensure that brackets are placed at the back side of the T-Post so that the bracket screw goes through the screw post in the T-Post. The stop hole is positioned at the top left and bottom right side.
- Screw brackets into position on top right and bottom left side, centering the screw into the L-Bracket. This will allow some play for leveling purposes.
- Hang panels and adjust T-Post positioning until sight lines and leveling is achieved.
- Lock T-Post into position by screwing stop holes in the L-Bracket.



Inside Mount with L-Frame

1. ASSEMBLE FRAMES

- See page 14. Most frames have pre-drilled holes placed for ease of installation.

2. PLACE FRAME IN OPENING

- The top part of the frame is indicated by a greater amount of distance from the top of the hinge to the edge of the frame. The label will indicate left and right side.

3. FASTEN FRAME

- Insert a screw in both the left and right top side frame holes. Center the frame in the opening, then drill the screws into the jambs. If the screw is not in enough, the opening will be smaller than ordered. If the screw is in too far, the opening will be larger than ordered.

4. HANG PANELS

- With upper and lower hinge pins only.

5. SQUARE/LEVEL PANELS TO THE OPENING

- Move bottom frame left or right until the panels are level. If this does not work, then:
- Move left frame up or down until the panels are level. If this does not work, then:
- Move right frame up or down until the panels are level.

- When the panels are level within the frame, hold bottom frame in position and place a screw in the middle bottom frame hole.
- If minor support or leveling is required, turn adjustable jamb cap at the bottom of the vertical jamb to the required spot.

6. FASTEN REMAINING SCREWS

- Insert screws in the remaining holes and check to ensure panels are level after every screw has been drilled into position.

7. INSTALL MAGNETS AND PLATES

- See page 13 for instructions.

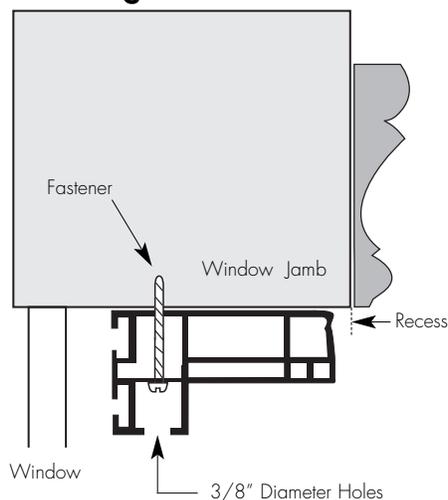
8. CAP HOLE

- Once all screws have been installed and panels checked for levelness, cap all holes with the provided button plugs.

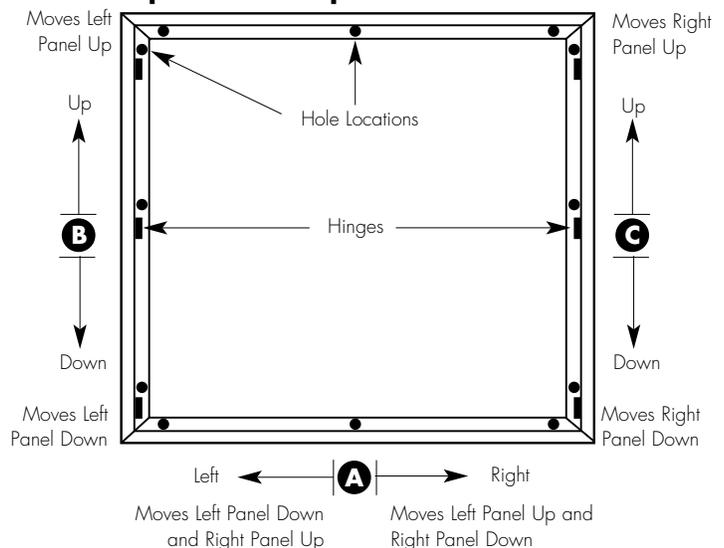
9. CLOSE ANY GAPS

- With either L-Frame Cover Strip, which is glued to the front face of the frame, or with Dap.

Fastening



Squareness Adjustments



Inside Mount with Z or Trim Frames

1. ASSEMBLE FRAMES

- See page I4. Most frames have pre-drilled holes placed for ease of installation.

2. PLACE FRAME IN OPENING

- The top part of the frame is indicated by a greater amount of distance from the top of the hinge to the edge of the frame. The label will indicate left and right side.

3. FASTEN FRAME

- Insert a screw in both the left and right top side frame holes. Center the frame in the opening, then drill the screws into the jambs. If the screw is not in enough, the opening will be smaller than ordered. If the screw is in too far, the opening will be larger than ordered.

4. HANG PANELS

- With upper and lower hinge pins only.

5. SQUARE/LEVEL PANELS TO THE OPENING

- Move bottom frame left or right until the panels are level. If this does not work, then:
- Move left frame up or down until the panels are level. If this does not work, then:
- Move right frame up or down until the panels are level.

- When the panels are level within the frame, hold bottom frame in position and place a screw in the middle bottom frame hole.
- If minor support or leveling is required, turn adjustable jamb cap at the bottom of the vertical jamb to the required spot.

6. FASTEN REMAINING SCREWS

- Insert screws in the remaining holes and check to ensure panels are level after every screw has been drilled into position.

7. INSTALL MAGNETS AND PLATES

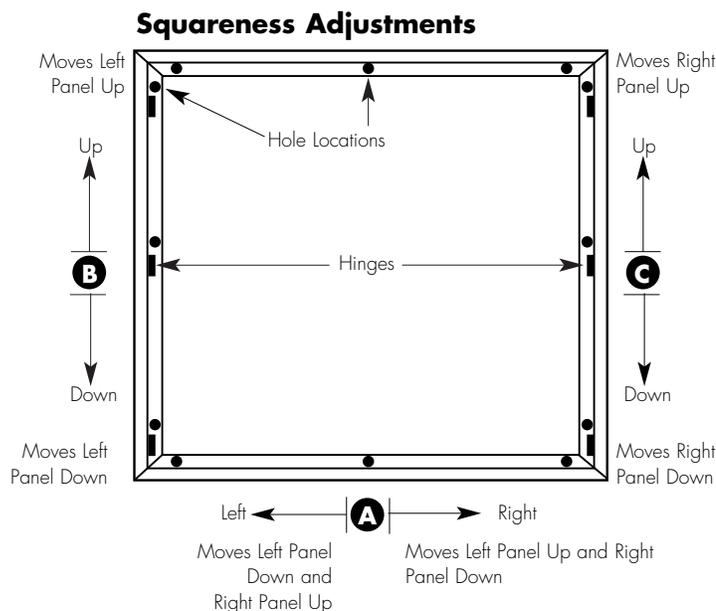
- See page I3 for instructions.

8. CAP HOLE

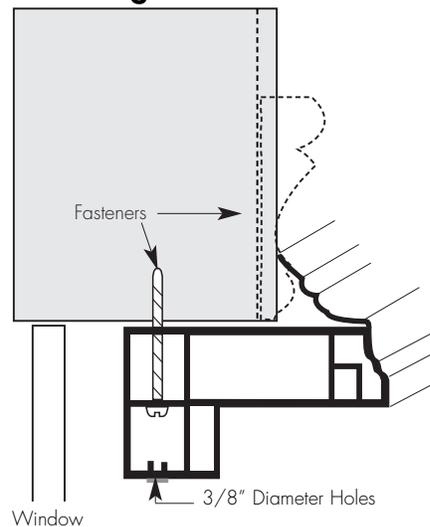
- Once all screws have been installed and panels checked for levelness, cap all holes with the provided button plugs.

9. CLOSE ANY GAPS

- For gaps that may occur at frame corners or around frame, apply Dap as needed.



Fastening



Inside Mount and Outside Mount with Mounting Strip

1. DRILL INSTALLATION HOLES

- 3/8" diameter holes must be drilled at each hinge.

2. PLACE SIDE FRAME IN OPENING

- The top part of the frame is indicated by a greater amount of distance from the top of the hinge to the edge of the frame. The label will indicate left and right side.

3. FASTEN SIDE FRAME

- Insert a screw inside the top holes first, followed by the bottom ones, keeping the panels plumb.

4. HANG PANELS

- With upper and lower hinge pins only.

5. SQUARE/LEVEL PANELS TO THE OPENING

- Adjust the bent-leaf hinges, if necessary, by loosening the hinge screws and moving the hinge left or right.
- Re-tighten hinge screws once level.
- If minor support or leveling is required, turn adjustable jamb cap at the bottom of the vertical jamb to the required spot.

6. FASTEN REMAINING SCREWS

- Insert screws in the remaining holes and check to ensure panels are level after every screw has been screwed into position.

7. FASTEN TOP AND BOTTOM FRAME

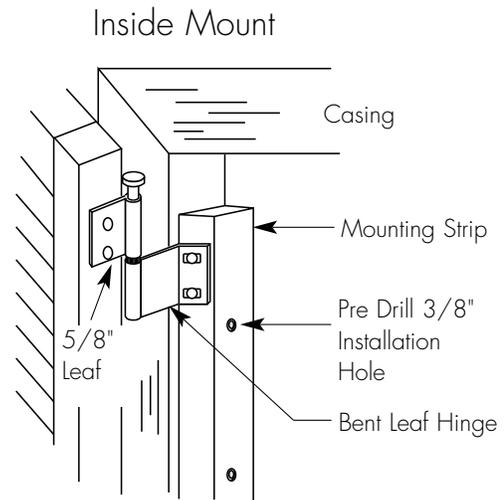
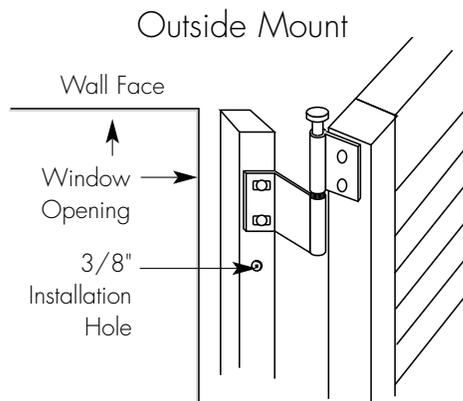
- Drill 3/8" hole.
- Center and insert screws.

8. CAP HOLE

- Once all screws have been installed and panels checked for levelness, cap all holes with the provided button plugs.

9. INSTALL MAGNETS AND PLATES

- See page 13 for instructions.



Outside Mount with Casing Frames

1. ASSEMBLE FRAMES

- See page I4. Most frames have pre-drilled holes placed for ease of installation.

2. HOLD FRAME ON OPENING

- The top part of the frame is indicated by a greater amount of distance from the top of the hinge to the edge of the frame. The label will indicate left and right side.

3. FASTEN FRAME

- Insert a screw in both the left and right top side frame holes as level as possible.

4. HANG PANELS

- With upper and lower hinge pins only.

5. SQUARE/LEVEL PANELS TO THE OPENING

- Move bottom frame left or right until the panels are level. If this does not work, then:
- Move left frame up or down until the panels are level. If this does not work, then:
- Move right frame up or down until the panels are level.
- When the panels are level within the frame, hold bottom frame in position and place a screw in the middle bottom frame hole.

- If minor support or leveling is required, turn adjustable jamb cap at the bottom of the vertical jamb to the required spot.

6. FASTEN REMAINING SCREWS

- Insert screws in the remaining holes and check to ensure panels are level after every screw has been screwed into position.

7. INSTALL MAGNETS AND PLATES

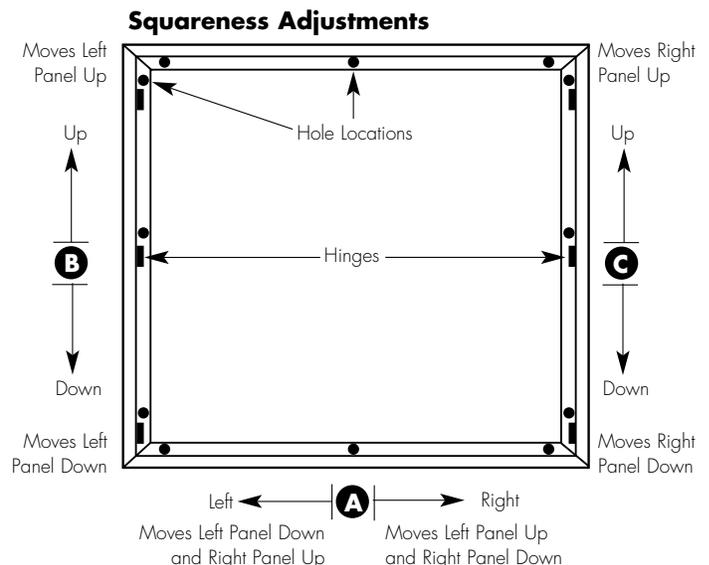
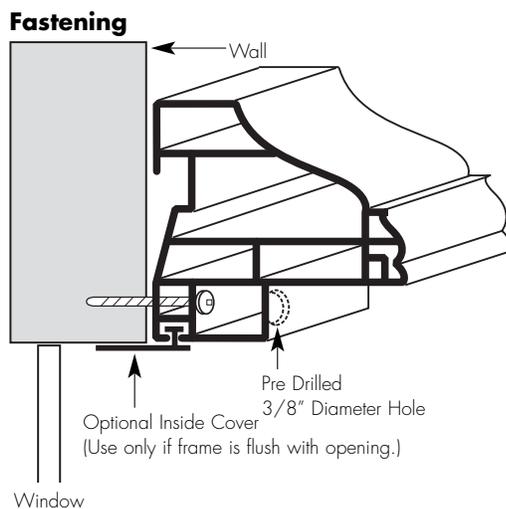
- See page I3 for instructions.

8. CAP HOLE

- Once all screws have been installed and panels checked for levelness, cap all holes with the provided button plugs.

9. CLOSE ANY GAPS

- For gaps that may occur at frame corners or around frame, apply Dap as needed.



Outside Mount with L-Frame

1. ASSEMBLE FRAMES

- See page 14. Most frames have pre-drilled holes placed for ease of installation.

2. HOLD FRAME ON OPENING

- The top part of the frame is indicated by a greater amount of distance from the top of the hinge to the edge of the frame. The label will indicate left and right side.

3. FASTEN FRAME

- Insert a screw in both the left and right top side frame holes as level as possible.

4. HANG PANELS

- With upper and lower hinge pins only.

5. SQUARE/LEVEL PANELS TO THE OPENING

- Move bottom frame left or right until the panels are level. If this does not work, then:
- Move left frame up or down until the panels are level. If this does not work, then:
- Move right frame up or down until the panels are level.
- When the panels are level within the frame, hold bottom frame in position and place a screw in the middle bottom frame hole.

- If minor support or leveling is required, turn adjustable jamb cap at the bottom of the vertical jamb to the required spot.

6. FASTEN REMAINING SCREWS

- Insert screws in the remaining holes and check to ensure panels are level after every screw has been screwed into position.

7. INSTALL MAGNETS AND PLATES

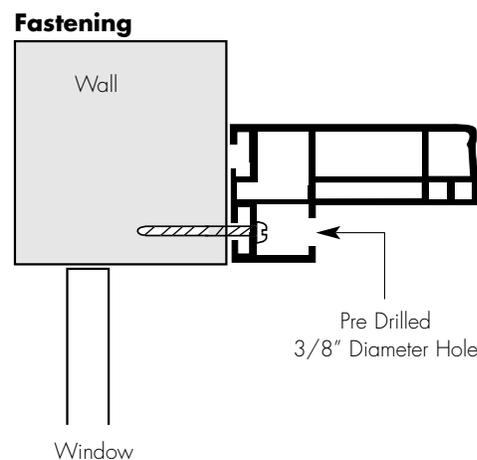
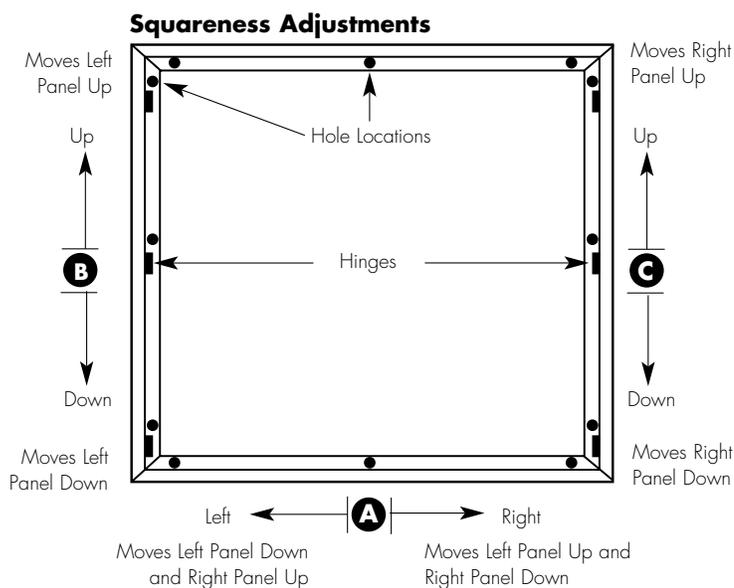
- See page 13 for instructions.

8. CAP HOLE

- Once all screws have been installed and panels checked for levelness, cap all holes with the provided button plugs.

9. CLOSE ANY GAPS

- For gaps that may occur at frame corners or around frame, apply Dap as needed.



Bay Window Compound Miter

1. DRILL INSTALLATION HOLES

- 3/8" diameter holes must be drilled at each hinge for the side frames.
- Two 3/8" diameter holes must be drilled for each panel at both top and bottom frames. Each hole should be approximately 4" from each side of panel location.
- For an inside mount, the holes are drilled at the side of the frame at the hinge.
- For an outside mount, the holes are drilled at the front face of the frame just below the hinge.

2. ASSEMBLE FRAMES AND T-POSTS (if required)

- See page 14 for 90-degree corners.
- Insert kidney key inside the frame at each interior angle. For a Z-Frame and L-Frame, screw a hinge screw into the frame through the kidney key for strength. For a Casing Frame and Trim Frame, screw the metal strapping to the back of the frame.
- See page 15 for T-Post positioning (ensure T-Post is perpendicular to the front).

3. HOLD FRAME IN OPENING

- The top part of the frame is indicated by having a greater amount of distance from the top of the hinge to the edge of the frame. The label will indicate left and right side.

4. FASTEN CENTER FRAME

- Insert a screw in both the left and right top side frame holes in the center opening as level as possible.

5. HANG CENTER PANELS

- With upper and lower hinge pins only.

6. SQUARE/LEVEL PANELS TO THE OPENING

- Move bottom frame left or right until the panels are level. If this does not work, then:
- Move left frame up or down until the panels are level. If this does not work, then:
- Move right frame up or down until the panels are level.
- When the panels are level within the frame, hold bottom frame in position and place a screw in the middle bottom frame hole.

- If minor support or leveling is required, turn adjustable jamb cap at the bottom of the vertical jamb to the required spot.

7. HANG PANELS

- With upper and lower hinge pins only.

8. SQUARE OR LEVEL PANEL TO THE CENTER OPENING (repeat for right)

- Move the left frame up or down until the panels are level.
- When the panels are level within the frame, hold the bottom frame in position and place a screw in the middle bottom frame hole.
- If minor support or leveling is required, turn the adjustable jamb cap at the bottom of the vertical jamb to the required spot.

9. INSTALL MAGNETS AND PLATES

- See page 13 for instructions.

10. CAP HOLES

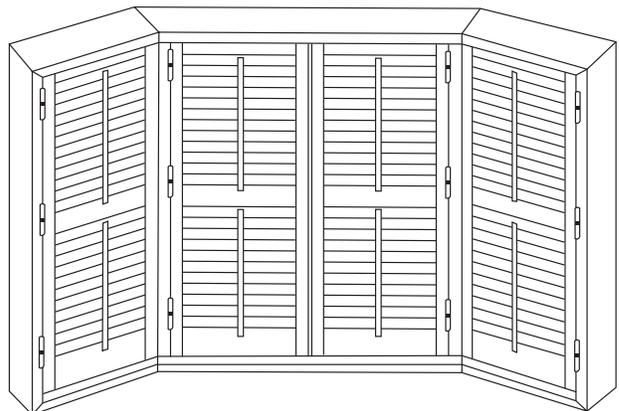
- Once all the screws have been installed and panels checked for level, cap all the holes with the provided plugs.

11. INSTALL TOP HINGE

- Starting with the left panels, place panel into opening.

12. CLOSE ANY GAPS

- For gaps that may occur at frame corners or around the frame, apply Dap as needed.



Bow Window Compound Miter

1. DRILL INSTALLATION HOLES

- 3/8" diameter holes must be drilled at each hinge for the side frames.
- Two 3/8" diameter holes must be drilled for each panel at both top and bottom frames. Each hole should be approximately 4" from each side of panel location.
- For an inside mount, the holes are drilled at the side of the frame at the hinge.
- For an outside mount, the holes are drilled at the front face of the frame just below the hinge.

2. ASSEMBLE FRAMES AND T-POSTS (if required)

- See page 14 for 90-degree corners.
- Insert kidney key inside the frame at each interior angle. For a Z-Frame and L-Frame, screw a hinge screw into the frame through the kidney key for strength. For a Casing Frame and Trim Frame, screw the metal strapping to the back of the frame.
- See page 15 for T-Post positioning (ensure T-Post is perpendicular to the front).

3. HOLD FRAME IN OPENING

- The top part of the frame is indicated by having a greater amount of distance from the top of the hinge to the edge of the frame. The label will indicate left and right side.

4. FASTEN CENTER FRAME

- Insert a screw in both the left and right top side frame holes in the center opening as level as possible.

5. HANG CENTER PANELS

- With upper and lower hinge pins only.

6. SQUARE/LEVEL PANELS TO THE OPENING

- Move bottom frame left or right until the panels are level. If this does not work, then:
- Move left frame up or down until the panels are level. If this does not work, then:
- Move right frame up or down until the panels are level.

- When the panels are level within the frame, hold bottom frame in position and place a screw in the middle bottom frame hole.
- If minor support or leveling is required, turn adjustable jamb cap at the bottom of the vertical jamb to the required spot.

7. HANG PANELS

- With upper and lower hinge pins only.

8. SQUARE OR LEVEL PANEL TO THE CENTER OPENING (repeat for right)

- Move the left frame up or down until the panels are level.
- When the panels are level within the frame, hold the bottom frame in position and place a screw in the middle bottom frame hole.
- If minor support or leveling is required, turn the adjustable jamb cap at the bottom of the vertical jamb to the required spot.

9. INSTALL MAGNETS AND PLATES

- See page 13 for instructions.

10. CAP HOLES

- Once all the screws have been installed and panels checked for level, cap all the holes with the provided button plugs.

11. CLOSE ANY GAPS

- For gaps that may occur at frame corners or around the frame, apply Dap as needed.

