



800 SERIES HIGH PERFORMANCE HINGED STORM DOORS

TYPICAL INSTALLATION INSTRUCTIONS

TOOLS AND EQUIPMENT YOU WILL NEED:

1. Power drill with bits
2. Phillips head screwdriver
3. Regular screwdriver
4. Caulking gun and caulking
5. Tape measure
6. Pencil
7. Hacksaw
8. Level
9. Square
10. Rubber hammer
11. Saw horses
12. Utility knife

BEFORE YOU BEGIN INSTALLATION:

- If necessary, carefully remove and discard old storm door and hardware from the door opening.
- Make sure mounting surface is clean and smooth. Remove old caulking if necessary.
- Check to see if the existing trim (brick molding) around the door opening is solid and securely fastened so as it will support your new storm door.
- Using your level, square and tape measure, check to make sure the door opening and mounting surface are plumb and square.
- Make sure threshold is solid and slopes far enough to the exterior so that the bottom sweeps of your new storm door will make contact when closed.
- Verify your new storm door is the size, color and style you ordered.
- Check to make sure hinge Z-Bar is on correct side if the storm door has been pre-hinged at factory.
- Carefully read the installation instructions completely before you begin.

NOTE: Mon-Ray, Inc. and its affiliates are not responsible for any injury or accident resulting from the installation, operation or use of this product.

COMPONENTS

- Storm door frame with glass insert(s). NOTE: Screen is also contained in frame of Self-Storage styles.
- One (1) Hinge Side Z-Bar with weather stripping (attached to storm door frame if pre-hinged by factory).
- One (1) Latch Side Z-Bar with weather stripping.
- One (1) Head Z-Bar with weather stripping.
- One (1) Sill Expander with two (2) pre-installed vinyl door sweeps.
- One (1) Storm Door Hardware Box containing Latch/Handle Kit, Pneumatic Closure, Check Chain and Assemble/Installation Instructions.
- Package of Assembly and Installation Screws.
- (Optional) One (1) Screen Insert for Storm Door Styles with one (1) removable glass panel.

INSTALLATION INSTRUCTIONS

- 1.) Lay storm door flat on sawhorses with exterior surface up.
- 2.) Remove and discard shipping material. Do not remove screws, which hold the Hinge Side Z-Bar to the frame of the storm door.
- 3.) Using your tape measure, measure the height of both sides of the door opening. Subtract 1/4" from the shorter of these two measurements to determine the cutting height dimension for the Z-Bar.
- 4.) Measuring with your tape measure from the top of the Hinge Side Z-Bar (the Z-Bar already attached to the storm door frame) to the bottom, mark the dimension from Step 3 on the underside of this Z-Bar.

- 5.) Using your hacksaw, cut the bottom of the Hinge Side Z-Bar at the mark you made at a slight downward angle (back to front) to fit the slope of the threshold.
- 6.) Using your utility knife, cut the vinyl sweeps off both ends of the Sill Expander, leaving approximately 1/8" of the vinyl sweeps projecting beyond both ends.
- 7.) Slide the Sill Expander onto the bottom of the storm door frame. Make sure the slope of the bottom of the expander is correct (high point to the exterior). Push the sill expander tight to the bottom of the storm door frame. You will adjust the sill expander later.

INSTALLATION INSTRUCTIONS - CONTINUED

- 8.) Carefully lift storm door and carry it to door opening. (NOTE: You may wish to remove glass and screen inserts to reduce the weight of the storm door during installation).
- 9.) Position the storm door in the opening with the Hinge Side Z-Bar against the exterior door trim (brick molding) and resting on the threshold to support the weight of the storm door frame.
- 10.) With the storm door open and using your power drill, install three (3) #8 x 1 3/4" flat head screws through the center holes of each hinge into the door casing. NOTE: To insure proper operation, all three hinges must be fastened securely and square to the door casing.
- 11.) Using your power drill, screw the #8 x 1" pan head screws through the five (5) pre-drilled holes in the Hinge Side Z-Bar and into the surface of the exterior door trim (brick molding).
- 12.) Position the Head Z-Bar on the head (top) of the exterior door trim (brick molding) so the end of the Head Z-Bar is flush with the edge of the Hinge side Z-Bar you have already fastened.
- 13.) Starting with the pre-drilled installation hole in the Head Z-Bar on the opposite end of the Hinge Side Z-Bar, use your drill to screw a #8 x 1" pan head screw through the installation hole and into the head of the exterior door trim (brick molding).
- 14.) Holding the Head Z-Bar in place, screw #8 x 1" pan head screws into the remaining two (2) pre-drilled installation holes leaving a reveal of 1/16" between the storm door frame and the Head Z-Bar.
- 15.) Using your tape measure, verify the height you will cut the Latch Side Z-Bar by measuring from the threshold (sill) to the under side of the Head Z-Bar on the latch side jamb of the door opening.
- 16.) Measuring with your tape measure from the top of the Latch Side Z-Bar to the bottom, mark the height dimension from Step 15 on the underside of the Z-Bar.
- 17.) Using your hacksaw, cut the Latch Side Z-Bar at the mark you made at a slight downward angle (back to front) to fit the slope of the threshold.
- 18.) Position the Latch Side Z-Bar onto the exterior door trim (brick molding) and close the storm door. While maintaining a 1/16" reveal between the Latch Side Z-Bar and the edge of the storm door frame, screw the #8 x 1" pan head screws with your drill through the five (5) pre-drilled installation holes in the Latch Side Z-Bar.
- 19.) With the storm door closed, visually check to make sure the storm door frame is making contact with the weather stripping in the Z-Bar at the head and both jambs. If necessary, shim behind the Z-Bar at any location that the frame does not make positive contact with the weather stripping.
- 20.) Following the instructions in the box containing the storm door hardware, assemble the storm door latch and handle into the pre-drilled latch holes in the storm door frame.
- 21.) Align the strike plate with the interior latch and fasten it to the doorjamb. Shim the strike plate to trigger the anti-lock device of the interior latch.
- 22.) Following the instructions in the hardware box, install the pneumatic storm door closure. On storm door styles which have a kick panel below the operating glass insert or a removable glass panel, the closure should be mounted on the cross bar that separates the lower kick panel from the glass insert(s). On storm door styles, which are, all glass (no lower kick panel), or if the prime door handle will obstruct the closure, the closure should be attached at the top of the storm door frame.
- 23.) Open the storm door and let it close. Adjust the closure as necessary by following the closure instruction sheet. NOTE: The rate the storm door will close will vary depending on if the interior prime door is open or closed.
- 24.) Following the instructions in the hardware box, install the check chain at the head of the door opening.
- 25.) With the storm door closed, adjust the Sill Expander by tapping it downward until the sweeps make contact with the threshold. Using your drill, drill two (2) 1/8" holes, each approximately 3" from the outer edges of the storm door, through the interior side of the Sill Expander and into the storm door frame. Attach the Sill Expander to the storm door frame by screwing #6 x 3/8" pan head screws through the two (2) 1/8" holes you just drilled. Reach inside both ends of the Sill Expander and pull out the foam blocks to align flush with the ends of the Sill Expander.
- 26.) With your caulking gun, run a bead of caulking the full length between interior door casing and the three Z-Bars (head and both jambs).

You have now completed the installation of your new Mon-Ray Hinged Storm Door.
If you have any questions, please call us at **1-800-544-3646**.

