



# 805 HIGH PERFORMANCE SLIDING PATIO STORM DOORS

## **ASSEMBLY AND 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. Level
8. Square
9. Saw
10. Hammer

### **BEFORE YOU BEGIN INSTALLATION:**

- Verify your new patio storm door is the size and color you ordered.
- If necessary, carefully remove and discard old patio storm door and hardware.
- Make sure 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.
- Your new patio storm door must be installed onto a solid, level sill support that projects at least 2 1/2" beyond the existing trim (brick molding). Typically, the existing threshold for a patio door opening does not project far enough. We recommend installing pressure treated wood to support the sill of our patio storm door. The wood sill support must be installed square and level to assure proper operation, and securely anchored below the existing threshold.
- 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**

The frame components of your new patio storm door have been cut to size, processed and packaged together in a single carton. Open this carton and lay all the frame components on a clean, flat surface. The sash are completely glazed and assembled, except for the sash rail handles and screw head covers. The sash can be leaned against a solid structure until needed. You will find the following items:

- One (1) Head (top) Main Frame Member
- One (1) Left Jamb (side) Main Frame Member
- One (1) Right Jamb (side) Main Frame Member (same length as Left Jamb Frame Member)
- One (1) Lower Sill (bottom) Main Frame Member (flat and same length as Head Frame Member)
- One (1) Sill Track Section (this section will be placed on top of the Lower Sill Frame Member)
- One (1) Snap-In Sill Plate (about half the length of the Sub-Sill Member)
- Three (3) Sash Rail Handles (to be installed on sash rails)
- Eight (8) Black Plastic Screw Head Covers (to be installed on sash rails)
- Package of Assembly and Installation Screws
- Two (2) Assembled and Glazed Sash

## **FRAME AND SASH ASSEMBLY**

To assemble the main frame, arrange the four (4) main frame members (Head, Left Jamb, Right Jamb and Sill) on your flat working surface so the flat overlap flange of the Head and Jamb sections are facing down. NOTE: The tops of both Jamb sections, which attach to the Head section, are processed with a deeper notch than the bottoms of both Jamb sections, which attach to the Sill section. Assemble all four (4) corners of the master frame using two (2) #8 x 5/8 Pan Head screws at each corner. The main frame is now assembled and ready to install.

## **FRAME INSTALLATION INSTRUCTIONS**

- 1.) Run a bead of caulking across the top and both sides of the exterior trim (brick molding) surface the main frame of the new patio storm door will be mounted to. Also run a bead of caulking across the threshold, or 2 x 4 sill support, the sill of patio storm door will rest on.
- 2.) Set the assembled main frame of the new patio storm door onto the threshold, or 2 x 4 sill support, and the head and jamb master frame members onto the surface of the exterior trim (brick molding) so that they make positive contact with the caulking.
- 3.) Using tape measure, check to make sure the new patio door is square by measuring the diagonal corners of the frame. Make necessary adjustments to assure the main frame is square. Using your level and square, make sure the sill is level. Make necessary adjustments with wood shims.
- 4.) Using your power drill, install #8 x 5/8 Pan Head screws through the pre-drilled installation holes into the surface of the exterior trim (brick molding) at the Head and Jamb main frame sections.
- 5.) Place the Track Sill Section onto the Lower Sill Main Frame Member. NOTE: The Mon-Ray logo should be to the interior to assure the Track Sill is sloped properly.

## **INSTRUCTIONS FOR INSTALLING THE SASH**

The operating patio storm door sash (which will line up with the operating sash of the interior patio door) must set on the interior track rail. The other sash is set in the outer track rail and will be held stationary by the snap-in sill plate. Before installing the sash into the main frame, you must verify the direction (left to right, or right to left) the operating patio storm sash will slide. Each of the patio storm door sash have two (2) adjustable rollers installed at the factory inside their bottom rails. The rollers have been installed at the factory for the operating sash to slide left to right (as viewed from the exterior). If the operating sash must slide right to left (as viewed from the exterior), the adjustable rollers must be removed and installed on the opposite ends, which have also been processed for the rollers.

- 1.) Carefully lift the operating sash. Place the top in the interior track of the Head Frame Member and the bottom on the interior track rail. NOTE: The sashes are typically glazed with 1/4" laminated safety glass and may require two persons to lift them.
- 2.) Adjust the rollers with your screwdriver so the sash slides smoothly and it properly aligned.
- 3.) Install the other sash by placing the top in the exterior track of the Head Frame Member and the bottom on the exterior track rail. Adjust the rollers for proper alignment and operation.
- 4.) Slide both sashes to their closed positions. Check to make sure the sash are interlocking properly at their meeting rails. If necessary, adjust their rollers to improve the alignment of the interlocking meeting rails.
- 5.) Slide both sash open. Install one (1) of the black plastic screw covers on each of the eight (8) sash corners to cover the roller alignment screws.
- 6.) Determine the location you want to install the sash rail handle in the outer sash rail of the operating sash (generally in about the center of the sash rail height). Using a 1/8" drill bit and #6 x 3/8 Pan Head screws, drill the installation holes and install one (1) handle on the interior side and one (1) handle on the exterior side of the outer operating sash rail.
- 7.) Install one (1) handle at the same height on the exterior side of the outer stationary sash rail. It is not necessary to install a handle on the interior side of the stationary sash.
- 8.) Close the stationary sash and snap the Sill Plate Cover into the open exterior sill track. The Sill Plate Cover will not only secure the stationary sash, it will also prevent a buildup of dirt and snow in the outer track and make it more secure to step on the sill. The Sill Plate Cover can be removed by using a screwdriver as a lever to "unsnap" it.

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