



## Installation Guide For Energy Core Storm Doors

\*\*\*\*Stop\*\*\*\*

\*\*\*Do Not Install Hardware Before Reading Instructions\*\*\*

### BEFORE STARTING

1. Read all instructions completely before beginning installation.
2. Remove the screen and both sash before installation for easier handling and to prevent damage. (To remove lift and twist slightly.)

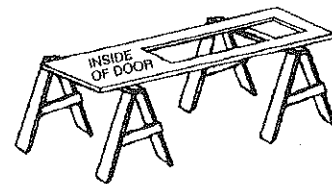
**NOTE TO BUYERS OF FULLVIEW DOORS.** Refer to the additional instruction sheet attached to the door sash for further instructions for sash removal and exchange.

### TOOLS REQUIRED

- |                     |          |                                      |
|---------------------|----------|--------------------------------------|
| *Two (2) saw horses | * Hammer | * Hack saw                           |
| * Pencil            | * Pliers | *Phillips and Standard screw drivers |
| * Tape measure      | * Drill  | * Center punch or Nail               |
| * Square            | * Level  | * 3/32", 1/8", 5/16" Drill bits.     |

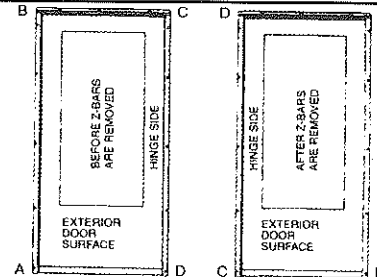
### Section I DOOR PREPARATION

1. Lay the door flat across two saw horses( inside of door facing up). Remove the screen and both sash if they are not already removed. Next remove the screw that attaches the header z-bar to the latch z-bar. Set the header z-bar aside for future installation and save the screw for hinge attachment performed in Step 3.



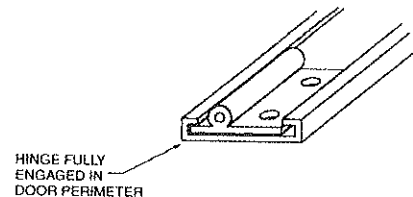
2. Determine whether the door should be hinged from the right or left side as you face the door opening from the outside.

The doors are packaged with the hinge z-bar attached to the right side of the door. If you choose to reverse the hinging, remove the latch and hinge z-bar from the door by removing the two (2) #10 x 3/4" screws which attach each to the door. Turn the z-bars end for end and re-attach them on the side opposite from which they were removed (Note: The top left side becomes the bottom right side). The top of the z-bar must extend past the top of the door 3/32" ( the approx. thickness of two dimes). This distance allows the proper clearance for later installation of the header z-bar Which occurs in Step 3 of Section II, Door installation.

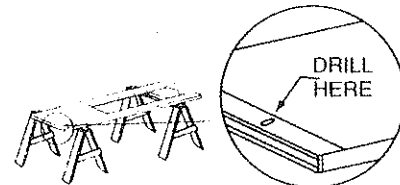


3. Use the pre-punched holes in the hinges as a guide to drill the remaining six (6) 1/8" pilot holes into the door perimeter.

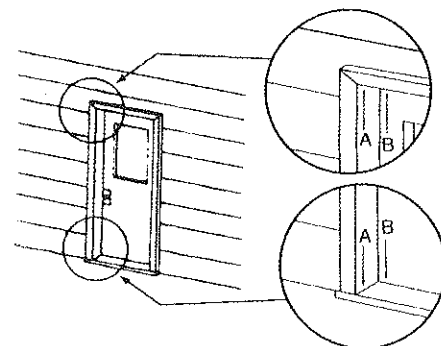
(NOTE: Be certain that the lip on each hinge is fully engaged into the groove of the door perimeter.) Secure the hinges, and attached z-bar, to the door with #10 x 1/2" screws which will be found as follows; one (1), which attached the header z-bar to the latch z-bar, three (3) from the screw pack in the hardware kit and two (2) which will become available after the latch z-bar is removed in step 2 of Section II of these instructions.



4. Make sure that the expander, which is already on the door bottom, is pushed all the way up. Drill a 3/32" hole at the bottom of each slot in the expander. NOTE: Drill into the bottom door perimeter, not into the door skin. Install, but do not tighten a #6 X 1/2" zinc SMS into each hole. These will be found in the screw pack which had the three (3) hinge screws and the twenty-five (25) colored #8 X 1" z-bar installation screws. Final adjustment of the expander will be done in step #5/Section II.

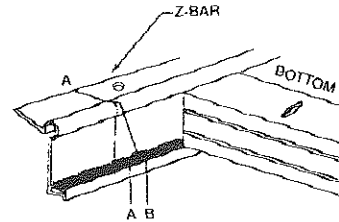


5. Turn the door over on the saw horses so that the outside of the door faces up. Measure the door opening at point "A" and at point "B". Each z-bar is to be cut to an angle which conforms to the slope of the sill.

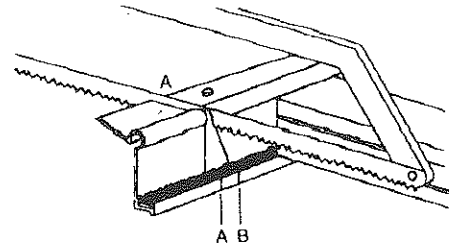


6. Subtract 1/8" from both measurements to allow space for the installation of the header z-bar. Make a pencil mark at measurement "A", across the face and down the side of each z-bar as shown.

Make another pencil mark at measurement "B", which will be approx. 1/16" to 1/8" shorter than measurement "A". Draw a line across each z-bar from point "B" until it intersects with line "A". **THIS WILL BE THE SAW LINE MARK.**



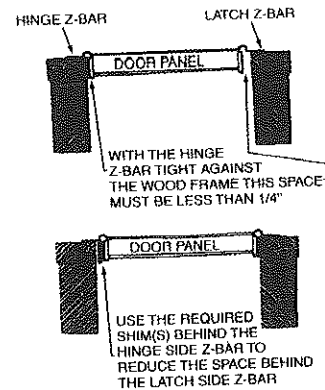
7. Hold the z-bar firmly and cut along the layout line with a hack saw. Perform steps 4,5, and 6 on both z-bars.



## Section II DOOR INSTALLATION

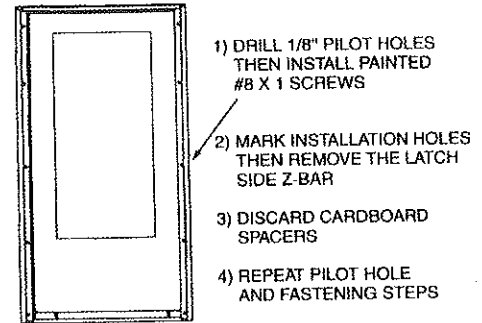
1. Insert the door into the rough opening with the hinge side z-bar tight against the wood frame. If there is more than 1/4" space between the latch side z-bar and the wood frame, **THE DOOR MUST BE SHIMMED.**

With the door temporarily in the rough opening, and the hinge side touching the wood frame, measure the distance between the latch side z-bar and the wood frame. The door must be shimmed behind the hinge z-bar to reduce this space to less than 1/4". Use any available scrap wood for shims. The shim may be continuous or cut into 8"-12" pieces and nailed behind each hinge location. If the space is larger than 1/2" the door should be shimmed equally on both sides.

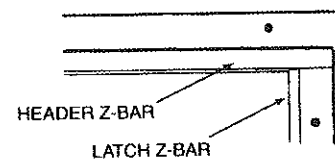


2. Place the door into the opening with the z-bars resting on the sill and the hinge z-bar tight against the wood frame or hinge side shims. Before installing the painted #8 x 1" screws into the outside facing of the hinge side z-bar, drill 1/8" pilot holes into the wood casing. These should be centered in each of the pre-punched installation holes. Proceed by installing the screws into the hinge z-bar. Tighten the screws snug, but **DO NOT OVER-TIGHTEN** as this may distort the surface of the z-bar.

With the door closed, mark the installation holes of the latch z-bar with a pencil or nail, through the pre-punched holes. Open the door and remove the (2) two #10 x 3/4" screws and cardboard spacers that secure the z-bar to the door. Discard the spacers and use the two (2) screws to finish attaching the hinges to the door perimeter as outlined in step 3 of the Door Preparation section. Drill 1/8" pilot holes and install screws.

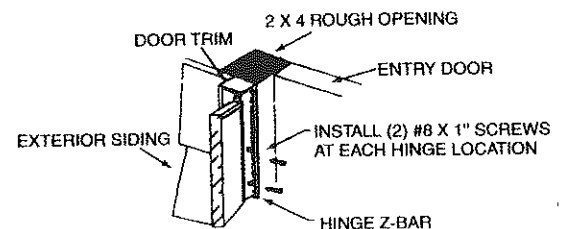


3. Position the header z-bar so it rests snug on the top of the z-bars and is even with the outer edges of the latch and hinge side z-bars. Mark and attach the header z-bar with three (3) #8 x 1" painted screws.



4. Open the door and install two (2) #8 x 1" screws through the hinge z-bar, into the wood frame at each hinge location.; a total of eight (8) screws.

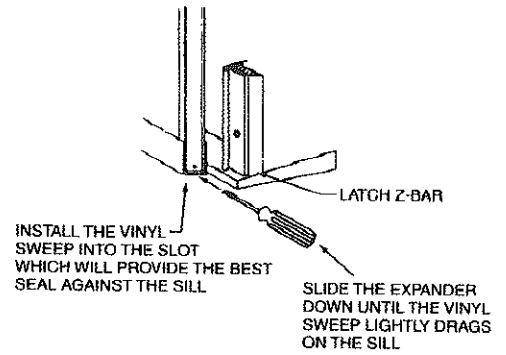
**DO NOT OVER-TIGHTEN SCREWS** as this may distort the z-bar and cause the hinges to bind.



5. Install the vinyl sweep by sliding it into the proper slot at the bottom of the expander. Select the slot, which will provide the best seal against the threshold. Pinch the slot shut against the sweep with a pliers to prevent it from sliding out. Cut off the excess leaving approx. 1/8" extending past each end of the expander.

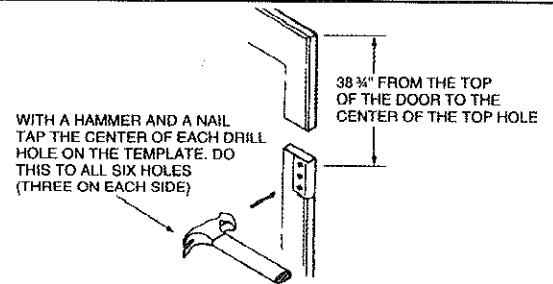
NOTE: If you have a WHITE door, your expander and sweep may be an integral unit. If so, the above process is not applicable.

Slide the expander down by inserting a screwdriver in the space between the door and the inside of the expander. Slide the expander down so that the vinyl sweep lightly drags on the threshold. When in this position tighten the two (2) #6 x 1/2" screws to keep the expander in place.

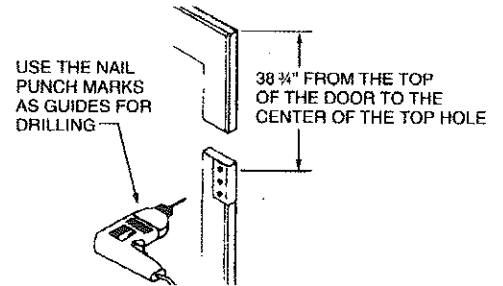


### Section III LATCH INSTALLATION

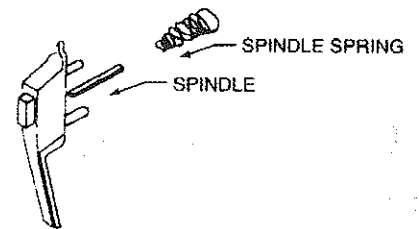
1. Attach the drilling template to the door with masking or other type of tape so that the center of the top hole is 38 3/4" down from the top of the door. CHECK TO MAKE SURE THAT THIS LOCATION WILL NOT INTERFERE WITH THE KNOB OF THE INSIDE DOOR WHEN BOTH DOORS ARE CLOSED. ADJUST LOCATION UP OR DOWN IF NECESSARY.



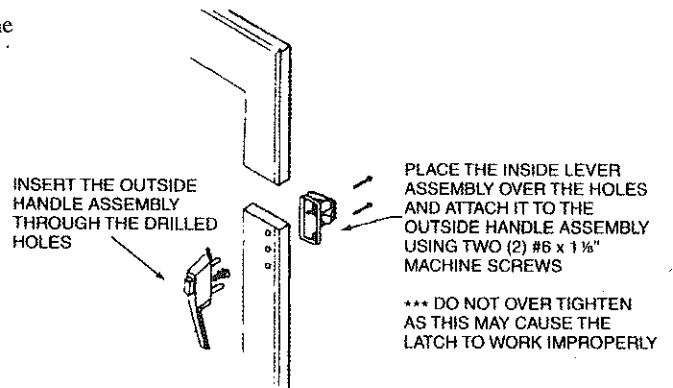
2. Drill the latch holes using a 5/16" drill bit. Drill halfway through from BOTH sides of the door to ensure level holes. Clean out the center hole to allow the latch spindle to operate freely.



3. Place the spindle into the thumb button and the spindle spring over the spindle so that the wide end of the spring will rest against the door when installed.



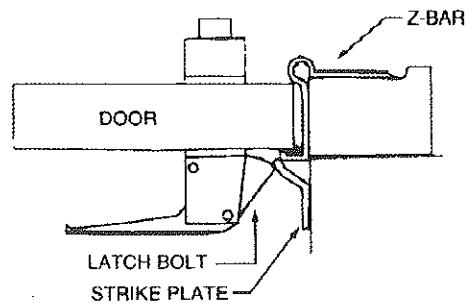
4. Insert the outside handle assembly through the drilled holes and attach it to the inside lever assembly.



- From the inside of the door, pull the door firmly closed and place the strike plate behind and in contact with the latch bolt. If needed use the enclosed plastic shims under the strike plate to extend its reach.

Mark the center of the slots in the strike plate and attach it to the wood frame with the two (2) #6 x 3/4" screws.

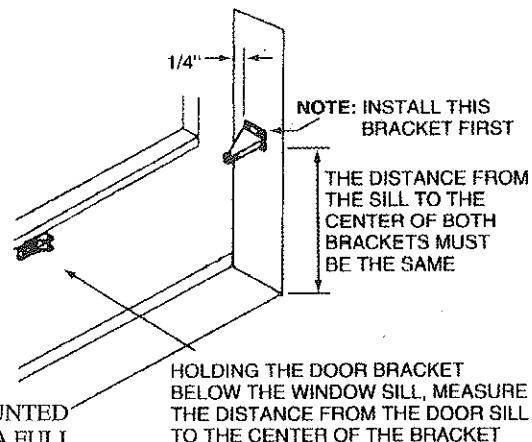
Operate the door and adjust the strike until the door closes tight.



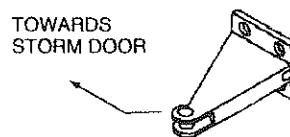
## Section IV DOOR CLOSER INSTALLATION

NOTE: Before installing the door closer make sure the door closes freely.

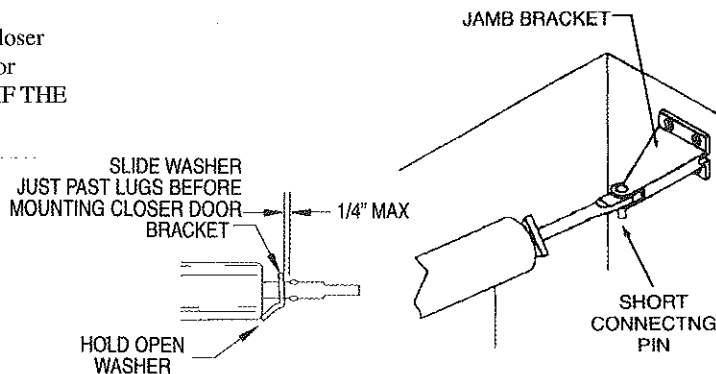
- The door closer will be installed just below the window frame. THE DOOR CLOSER BRACKET MUST TOUCH THE BOTTOM OF THE WINDOW FRAME, so that the bracket screws engage the available reinforcement. DO NOT install at this time!
- Holding the door bracket below the window sill, measure the distance from the center of the door bracket to the door sill. Setting the door bracket aside, position the jamb bracket on the wood frame 1/4" from the storm door and at a height equal to the distance measured previously from the center of the door bracket to the door sill. This will ensure that the closer is mounted level. Note: if the closer is not installed level it will not operate correctly AND IF THE BRACKET IS MOUNTED MORE THAN 1/4" FROM THE STORM DOOR, THE DOOR WILL NOT OPEN A FULL 90 DEGREES!!



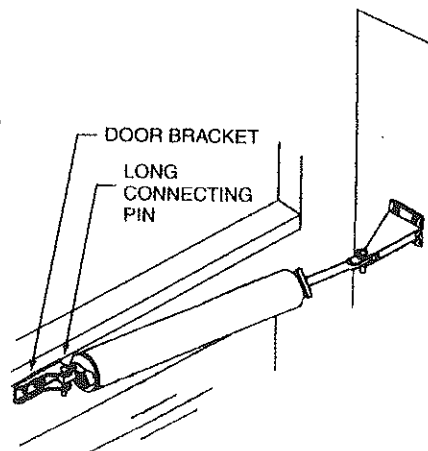
- Drill four (4) 1/8" pilot holes and attach the jamb bracket to the wood frame with the four (4) colored #12 x 1" screws. ATTACH SO THAT THE OPEN SIDE OF THE BRACKET FACES THE STORM DOOR. For extra wide door opening, rotate the bracket 180 degrees.



- Slide the hold-open washer onto the rod of the door closer. Connect the closer rod to the jamb bracket, using the SHORT connecting pin. Pull on the door closer so that the hold-open washer can be slid just past the lugs. NOTE; IF THE HOLD-OPEN WASHER IS ANY MORE THAN 1/4" PAST THE LUGS, THE DOOR WILL NOT OPEN A FULL 90 DEGREES!! This will provide the proper tension on the closer assembly during installation. DO NOT CHANGE THE POSITION OF THE HOLD-OPEN WASHER UNTIL THE DOOR CLOSER INSTALLATION IS COMPLETED.

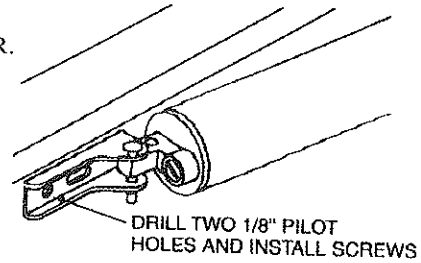


- With the door closed and latched, connect the door bracket to the closer rod with the LONG connecting pin. Connect the bracket to the hole at the extreme end of the closer. Hold the closer and door bracket against the door in a level position, MAKING SURE THAT IT IS TOUCHING THE BOTTOM EDGE OF THE WINDOW FRAME. With a pencil, mark the hole locations of the bracket onto the door surface. Use a nail or center punch to punch the pencil marks for drilling guides. DO NOT simply center the bracket horizontally on the door panel or use dimensions from a previous installation.



6. Drill a 1/8" pilot hole into the door through the pencil mark in the center of the slotted hole only, approximately 1/8" deep. **BE CAREFUL NOT TO DRILL THROUGH THE DOOR.** Attach the door bracket with one (1) of the colored #10 x 1/2" screws. Open the door and move the hold open washer to the other side of the lugs on the closer rod. Operate the door several times to insure that the door opens fully and closes properly. If some adjustment is needed, loosen the screw and slide the bracket left or right to obtain the proper operation. Then drill at the round hole and install the other colored #10 x 1/2" screw.

The closing speed of the door may be regulated by turning the adjusting screw.

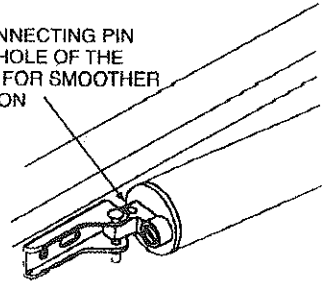


## CONTROLLED LATCHING POWER FEATURE

NOTE: Replace sash and screen at this time.

Installed as directed, with the door bracket attached to the front hole of the door closer, the bypass valve built into the closer will accelerate the closing speed of the door in the last few inches of travel. This controlled speed is recommended for use when the glass storm sash is in place and in the CLOSED position. If a smoother, quieter closing action is desired, hold the door open about 8" with the hold open washer, remove the long connecting pin from the door bracket and relocate it in the rear hole of the closer tube. This position is recommended for use when the glass storm panel has been removed or is in the open position.

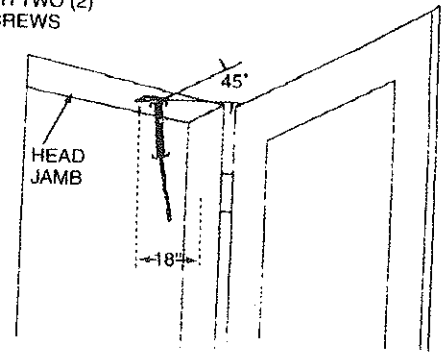
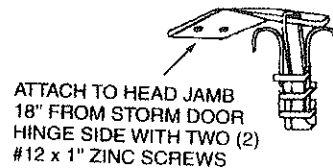
MOVE THE CONNECTING PIN TO THE REAR HOLE OF THE CLOSER TUBE FOR SMOOTHER CLOSING ACTION



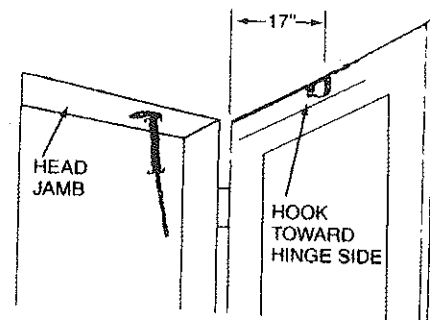
## Section V SAFETY STOP CHAIN INSTALLATION

NOTE : The safety chain is designed to help prevent damage that may occur if the door is caught by a sudden gust of wind.

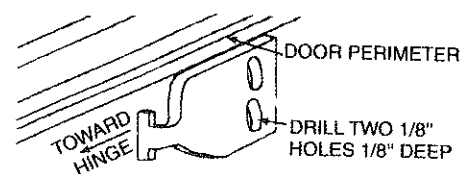
1. Attach the bracket on the spring end of the safety stop chain to the head jamb approximately 15" from the door frame. NOTE: MOUNT THIS BRACKET AT AN APPROXIMATE 45 DEGREE ANGLE.



2. Mount the chain bracket on the door 17" from the hinge side of the door. Position the bracket with the chain hook toward the hinge side and with the bracket tight against the edge of door perimeter. Mark the installation holes for the bracket with a pencil. Use a nail or center punch to dimple the locations for drilling guides.

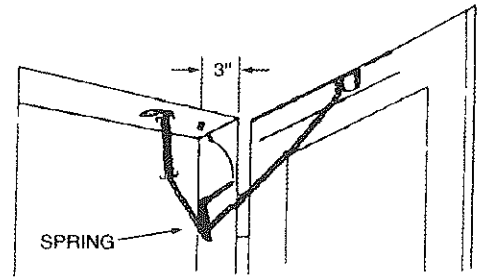


3. Drill two (2) 1/8" pilot holes through the pencil marks approximately 1/8" deep. **BE CAREFUL NOT TO DRILL THROUGH THE DOOR.** Attach the door bracket with two (2) #10 x 1/2" screws.



4. To attach the hold up spring, close the door and hook the spring to the lowest hanging link. Swing the chain towards the hinge side of the door and attach it to the wood jamb with the double head nail provided. The nail should be installed approximately 3" from the side jamb of the entry door.

NOTE: To allow full opening or removal of the door, detach the chain from the door bracket.



## **INSTALLATION OF SCREEN AT THE TOP OF THE DOOR**

NOTE: The sash in the self-storing storm door models is designed for screen installation in the lower half of the window opening. It is possible to install the screen in the top half of the opening, however reversing the sash in this fashion prevents the interlocking of the meeting rails. NOTE: For maximum energy efficiency, it is recommended that the screen be placed in the lower position.

1. Remove the screen and both sash.
2. Install the top stationary sash ( the narrower of the two) UPSIDE DOWN in the OUTSIDE track of the lower half of the window opening.
3. Install the screen above the stationary sash.
4. Install the operating sash, RIGHT SIDE UP in the INSIDE track.

## **UPON COMPLETION OF INSTALLATION**

Wash the door with a mild detergent or isopropyl (rubbing) alcohol. DO NOT use abrasive powders, steel wool, commercial glass cleaners or window cleaners that are ammonia or alcohol based on the painted surfaces. Buff with a soft, dry cloth. When dry, apply a coat of quality paste wax to enhance and protect the finish.



# **HOMEOWNER ASSISTANCE**

**Question With Assembly?**

**Missing Or Damaged Parts?**

**No Need To Return To The Store! We Will Be Glad To Help**

**Visit [ajdoor.com/stormdoors](http://ajdoor.com/stormdoors) for a Trouble Shooting Guide**

**or**

**Call: 1-800-328-9448**

**Monday - Friday 8:00 A.M. - 5:00 P.M. Central Time**

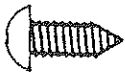
***INSTALLER: DO NOT REMOVE SERIAL NUMBER FROM DOOR. GIVE THIS ENTIRE INSTRUCTION PACKAGE TO HOME OWNER***

***HOMEOWNER: KEEP THIS INSTRUCTION PACKAGE, STORE RECEIPT AND A COPY OF THE SERIAL NUMBER FOR FUTURE REFERENCE.***

**(Serial number is located on the right perimeter of the door on a silver sticker.)**

# PARTS IDENTIFICATION SHEET

ALL PARTS ABOVE DOUBLE LINE ARE ACTUAL SIZE



#10x $\frac{1}{2}$ " ROUND HEAD SMS  
(Colored) 2 each Step #6/Section IV  
(Zinc) 2 each Step #3/Section V



#12x1" ROUND HEAD SMS  
(Colored) 4 each Step #3/Section IV  
(Zinc) 2 each Step #1/Section V



#8x1" PAN HEAD SMS  
(Colored) 25 each  
Step #2, 3, 4/Section II



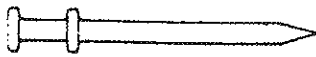
#6x $\frac{3}{4}$ " PAN HEAD SMS  
(Zinc) 2 each Step #5/Section III



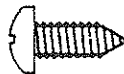
#6x $\frac{1}{2}$ " PAN HEAD SMS  
(Zinc) 2 each Step #7/Section I



#6-32x1  $\frac{1}{8}$ " MACHINE SCREW  
(Colored) 2 each  
Step #4/Section III

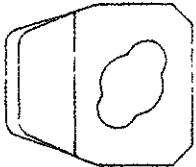


DOUBLE-HEADED NAIL  
(Zinc) 1 each Step #4/Section V

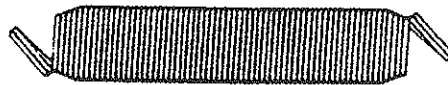


#10x $\frac{1}{2}$ " PAN HEAD SMS  
(Zinc) 3 each Step #3/Section I

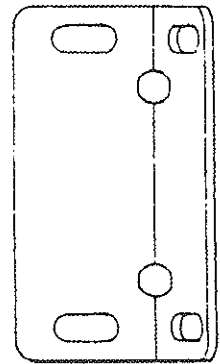
NOTE: Parts supplied may vary slightly from those depicted



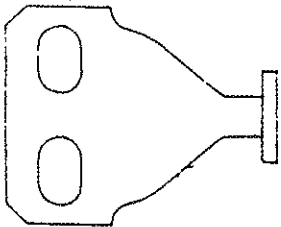
HOLD-OPEN WASHER



HOLD-UP SPRING



STRIKE PLATE



CHAIN BRACKET



PLASTIC SHIM

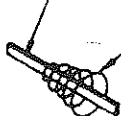


OUTSIDE HANDLE

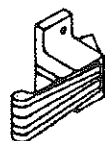
THUMB BUTTON



SPINDLE

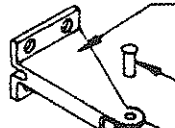


SPRING

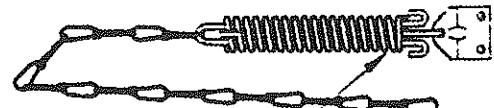


INSIDE LATCH MECHANISM

JAMB BRACKET



SAFETY CHAIN ASSEMBLY



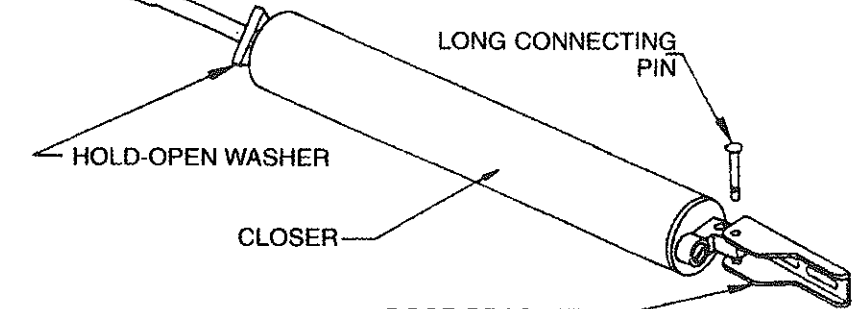
SHORT CONNECTING PIN

LONG CONNECTING PIN

HOLD-OPEN WASHER

CLOSER

DOOR BRACKET



**LIMITED WARRANTY**  
**Residential Storm Doors**

A.J. Manufacturing, Inc. (A.J. Manufacturing) warrants its residential storm doors ( the "Product") against defect in material and workmanship, including, but not limited to, delamination and rusting, for so long as the original consumer purchaser owns the home in which the Product was initially installed.

Should the Product be defective during the period specified above, A.J. Manufacturing will repair (or at its option replace) the defective Product during the warranty period at no charge to you, provided the Product is returned to an authorized A.J. Manufacturing Distributor. (You can obtain the name and address of an authorized Distributor from A.J. Manufacturing directly at the address printed on this certificate.) A.J. Manufacturing shall not be responsible for any transportation costs for the return of the defective Product to the Distributor nor the return of the repaired or replacement Product to or from the Distributor. A.J. Manufacturing shall not be responsible for labor costs associated with the removal of the defective Product nor will it be responsible for labor cost related to the reinstallation of the repaired or replacement Product.

This warranty specifically does not apply to:

- A: Alteration or damage caused by misuse, negligence, accident, fire, flood, wind & storm damage, "acts of God", or other contingencies beyond the control of A.J. Manufacturing, Inc.
- B: Any defects of any nature whatsoever in any of the hardware which is furnished with the Product which was not manufactured by A.J. Manufacturing.
- C: Glass and screening damage, including, but not limited to sash and/or screen frame.

A.J. Manufacturing shall not be responsible for incidental or consequential damages resulting from the breach of any express or implied warranty, including any damage to property, and to the extent permitted by the law, damages for personal injury. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty shall not be applicable to the extent that any provision of this warranty is prohibited by any federal, state or municipal law which cannot be preempted. This warranty gives you specific legal rights, and you may also have other rights which vary from state-to-state.

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A.J. Manufacturing, Inc.  
1217 Oak Street, Bloomer, WI 54724  
Toll Free: 1-800-328-9448 Fax: 715-568-3099  
E-mail: info@ajdoor.com