

SWING DOOR INSTALLATION GUIDE



CASCADE
WINDOWS

10507 East Montgomery
Spokane Valley, WA 99206
(800) 442-8544

www.cascadewindows.com

SWING DOOR

INSTALLATION INSTRUCTIONS



CONTENTS

THINGS TO KNOW.....	3
INSTALLATION.....	4
ACTIVE ASSEMBLY WITH KEY LOCK.....	8
ACTIVE ASSEMBLY WITH KEY LOCK.....	9
PASSIVE ASSEMBLY.....	10
HINGE ADJUSTMENTS.....	11
EXPLODED VIEWS.....	12

SWING DOOR

INSTALLATION INSTRUCTIONS



THINGS TO KNOW

Hazard Notations

<p>Mistakes or misuse could cause damage to the product or result in a faulty installation.</p>	<p>Heavy object. Unassisted lifting may cause injury.</p>	<p>Information on helpful tips and procedures.</p>

Tools needed

#2 Phillips Screwdriver
 Pry Bar
 Drill
 Square
 Tape Measure
 Safety Glasses
 Utility Knife
 Level

Supplies needed

Construction Adhesive
 Flashing
 Shims
 Staples
 Low Expanding Foam
 Door Pan

SAFETY & HANDLING

- Understand ALL manufacturer's instructions before beginning to install your *Cascade* product.
- Do not work alone. Use safe lifting techniques.
- Always wear your P.P.E. (e.g. safety glasses, gloves, ear protection, etc.).
- Use caution when handling glass.
- Operate hand/power tools safely and follow the manufacturer's operation instructions.
- Do not put stress on corners of frames.
- Store door in a well-ventilated area in a vertical, leaning position to allow air circulation.
- Protect from exposure to direct sunlight during storage.
- Install only into vertical walls and when conditions and sheathing are dry.

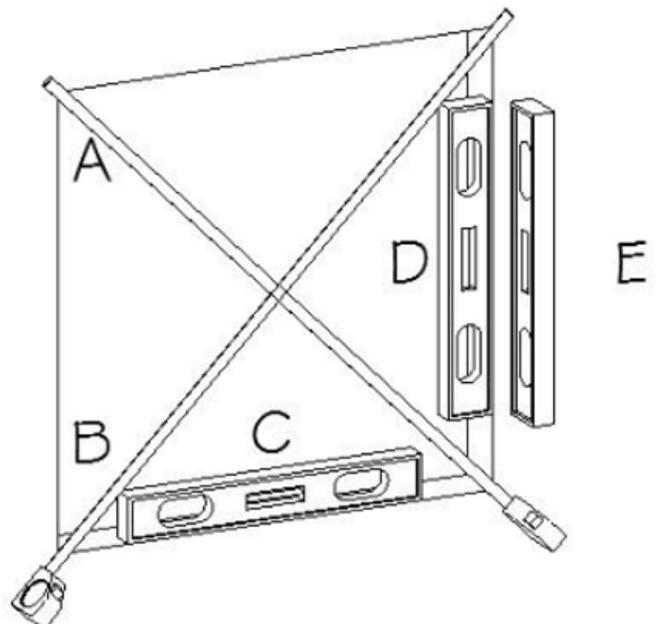
HOW TO CHECK PLUMB, LEVEL AND SQUARE

A & B - Cross tape measurements to verify the opening is square.

C - Threshold level, free of any crowns and sags.

D - Plumb vertical jamb.

E - Plumb vertical exterior portion of the wall.



SWING DOOR

INSTALLATION INSTRUCTIONS



GENERAL INSTALLATION INSTRUCTIONS

1. INSPECT PRODUCT AND CARE

- Carefully remove any shipping materials. (e.g. corner covers, shipping blocks, plastic wrap, etc.)
- Check for any cosmetic damages.
- Correct product. (size, color, handing, etc.)

If any of the above conditions are a concern, contact your dealer or Distributer for recommendations prior to installation.

2. INSPECT THE ROUGH OPENING

- Verify the width and height of the opening for proper clearance.
- Verify the opening is square by measuring diagonally from one corner to the other on both sides.
- Verify the opening is level and plumb.

These steps are important to acquire a trouble-free installation. If these conditions are not met, you will need to adjust accordingly.

INSTALLATION

1. Level the threshold. Place an extra 1/8-inch shim on the threshold at the hinge side jamb. *This will allow for more adjustments as well as space to shim down the threshold on a double door for clearance. **(Fig. A)**
2. Flash the opening according to AAMA standards.
3. Apply sealant to threshold and surrounding areas as needed according to industry standards.
4. Remove panel(s) from your frame by swinging the panel(s) to the open position and lifting straight up off the hinge mounts.
5. Remove the weather stripping from the frame.
6. Place the door frame into the prepared opening and secure it on 4 corners of the jamb and one screw in the header to eliminate any sag. **(Fig. B)**

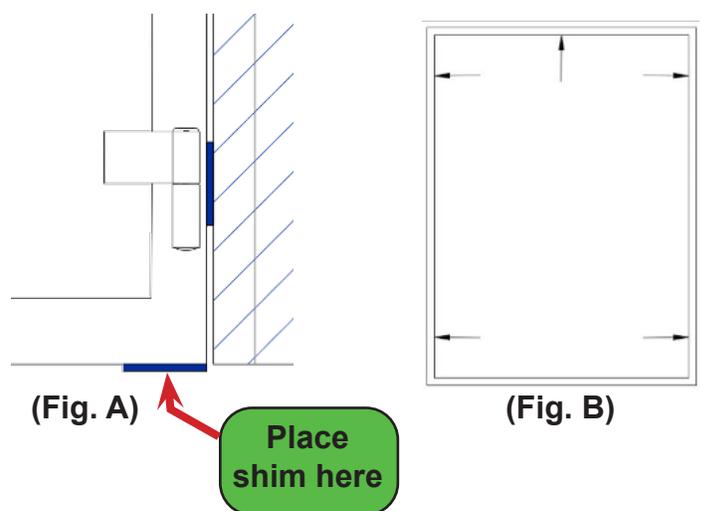
*See next page for specific placement of screws into the frame.



Proper steps must be taken when flashing and applying sealant to ensure proper waterproofing of the unit.



It is necessary to have assistance when carrying the unit as well as removing and installing the panels.



SWING DOOR

INSTALLATION INSTRUCTIONS



INSTALLATION CONT.

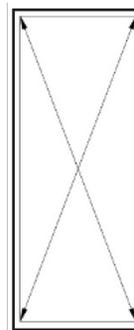
SCREW PLACEMENT



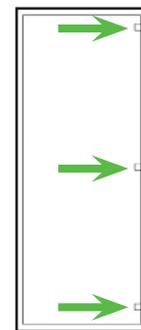
SCREW IN THIS CHANNEL



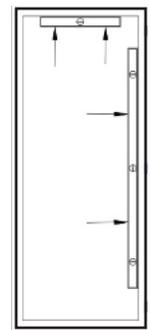
7. Cross tape your frame to make sure your frame is square and use a level on the jamb to make sure it's plumb. **(Fig. C)**
8. Place one screw aligned with each hinge in the channel behind the weather stripping. **(Fig. D)**
9. Place a level on the jamb to make sure there is no daylight and your frame is perfectly straight. **(Fig. E)**
10. Finish off the screws in the jamb and the header, every 16 inches. Make sure there are no humps bows and/or crowns.
11. Place shims aligned with the bottom hinge between the frame and the framing of the door. **(Fig. F)**
12. Now that the frame is set you can hang the panel(s), simply align the hinge pins with the hinge mounts and lower onto the frame.
13. Check the reveal from the top of your top hinge, panel to frame and to the top of the panel corner to the frame. It should be a consistent gap, if not; adjust accordingly and follow the same process with the bottom hinge to bottom of the panel. **(Fig. G)**



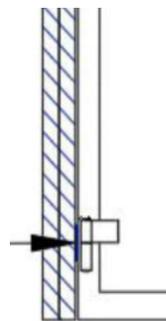
(Fig. C)



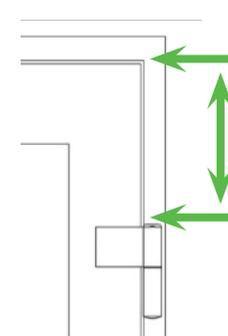
(Fig. D)



(Fig. E)



(Fig. F)



(Fig. G)

GAP MUST BE CONSISTENT



There is a possibility you may need to reverse the tongue on the locking bar. To do so you will need to pull the tongue outwards from the housing and simply twist it to face the opposite direction. It may be easier to use a pair of pliers with the use of a rag or something to protect the tongue from the teeth on the pliers.

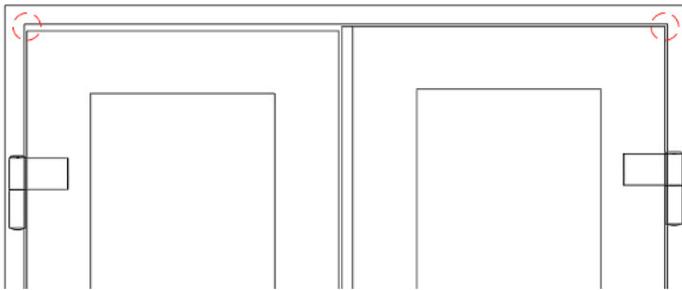
SWING DOOR

INSTALLATION INSTRUCTIONS

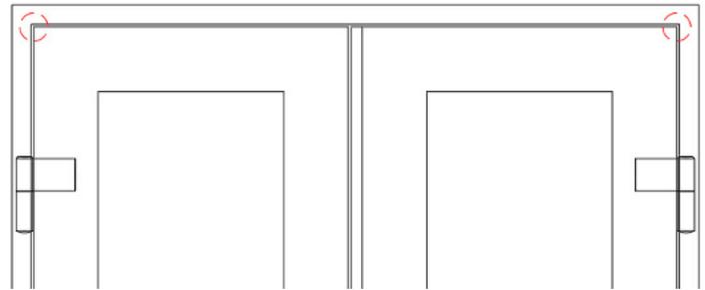
INSTALLATION CONT.

14. Now, look at the entire jamb, top to bottom. Check for consistency on the hinge adjustment gaps and adjust accordingly to have a straight, uniform gap, top to bottom. **(see hinge adjustment, page 11)**

15. Now that the jamb reveals are straight and even, check the top reveals. Starting from the hinge side corner, look at the gap from the corner edge of the panel to the frame. On a double door; both doors need to have the same gap to continue. You may need to raise or lower one panel to mirror the other. **(see hinge adjustment, page 11)**



INCORRECT REVEALS



CORRECT REVEALS

16. With both hinge side corners even, check the top of the two panels in the middle where they meet and make sure they are both at the same level. If the corners are at the same elevation but the middle of the two panels do not line up you will need to make some corrections in the frame and/or hinges.

POSSIBLE FIXES

- Check jamb reveals for a consistently straight and even reveal.
- Confirm the frame is plumb, level and square.
- Add or take away shims from particular hinge(s).
- Tighten or loosen top screw that is in the jamb aligned with the top hinge.
- Pull the top or bottom of the frame one way or the other depending on what the top middle reveal of the two panels show.



SWING DOOR

INSTALLATION INSTRUCTIONS



INSTALLATION CONT.

17. Be sure to shim behind every hinge and top of the frame where the shoot bolt engages. On a single door shim behind all 3 locking points. This is a necessary step to ensure all your locking and hinge points are well supported and free from any flex and or movement, eliminating service issues in the future.
18. Finish screwing off the nail fin no more than 6 inches from the corner and no less than 3 inches with the rest of the spacing at every 12-16 inches. Apply sealant and flashing per AAMA specifications.
19. On a double door it is necessary to place shims between the passive panel close to where the shoot bolt engages into the frame and the threshold. This will keep the threshold down allowing the sealant to dry without crowning of the threshold. **(Fig. H)**
20. Install the door handle hardware **(see hardware diagram pages 8, 9 & 10)**



(Fig. H)

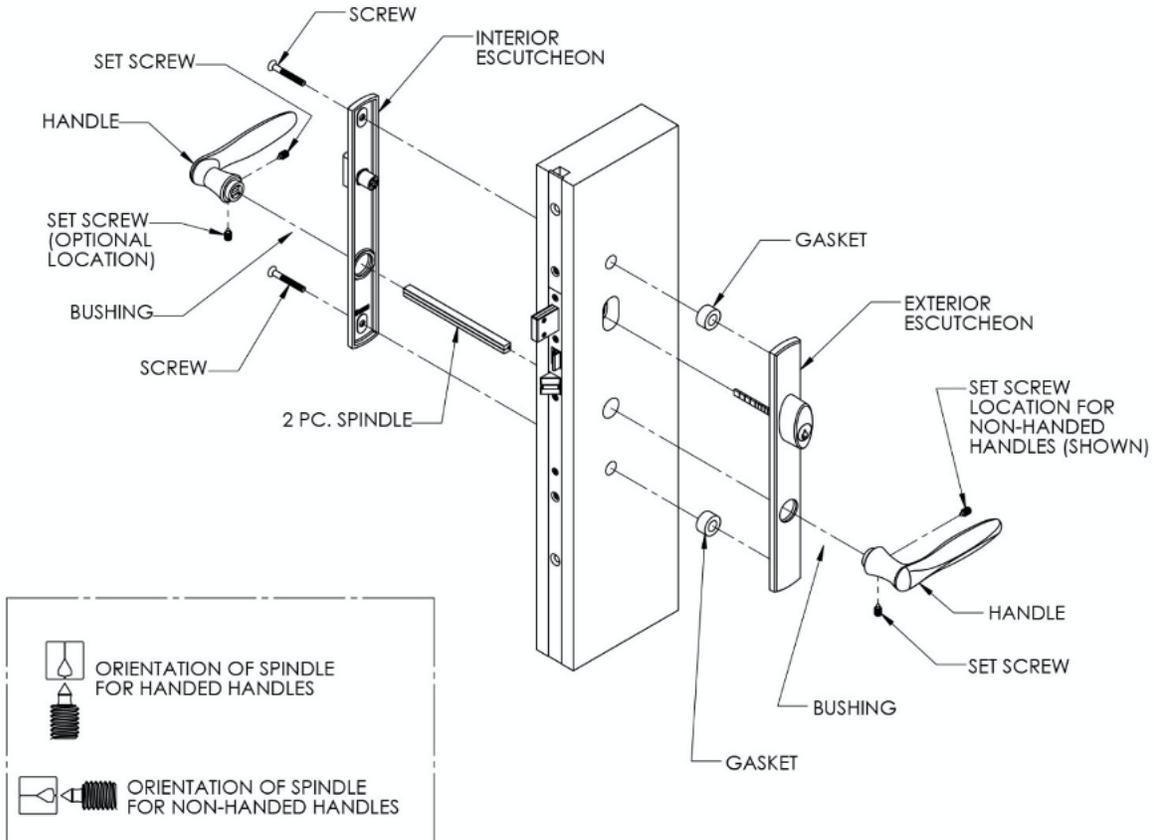
** Leave for 48 hours if possible.

SWING DOOR

INSTALLATION INSTRUCTIONS



ACTIVE ASSEMBLY WITH KEY LOCK

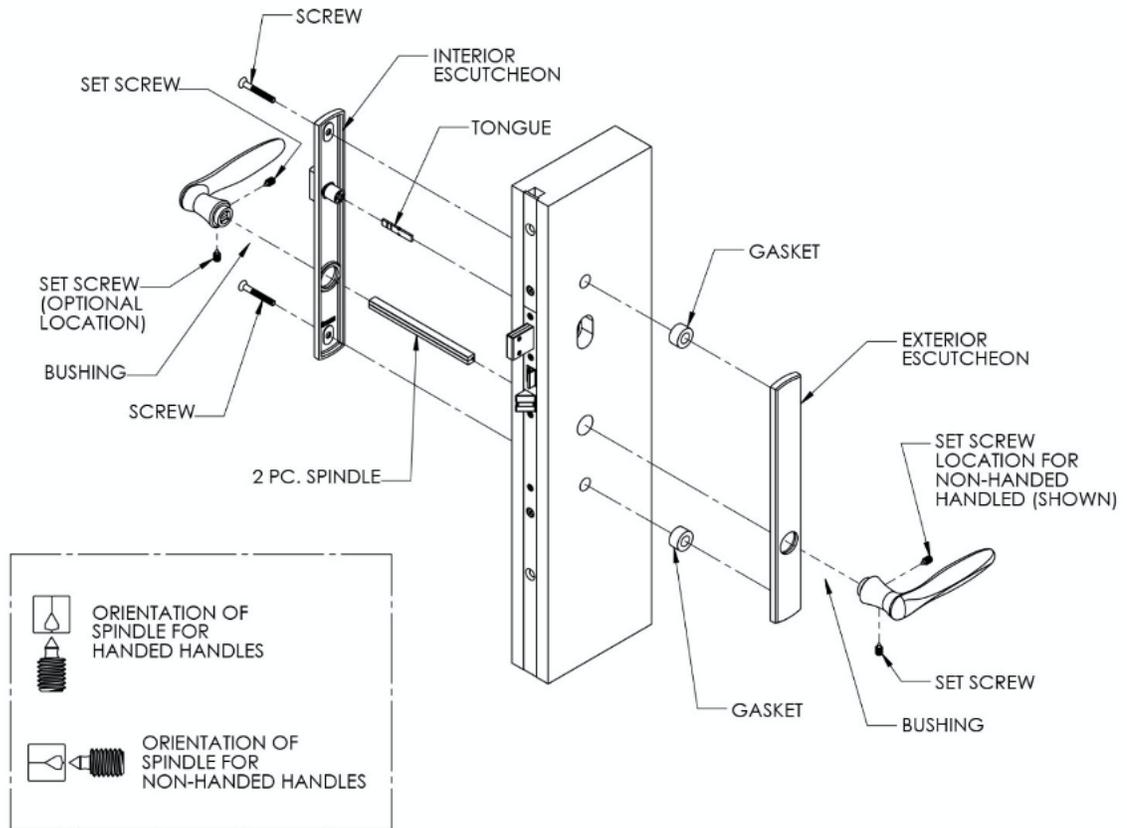


SWING DOOR

INSTALLATION INSTRUCTIONS



ACTIVE ASSEMBLY WITH KEY LOCK

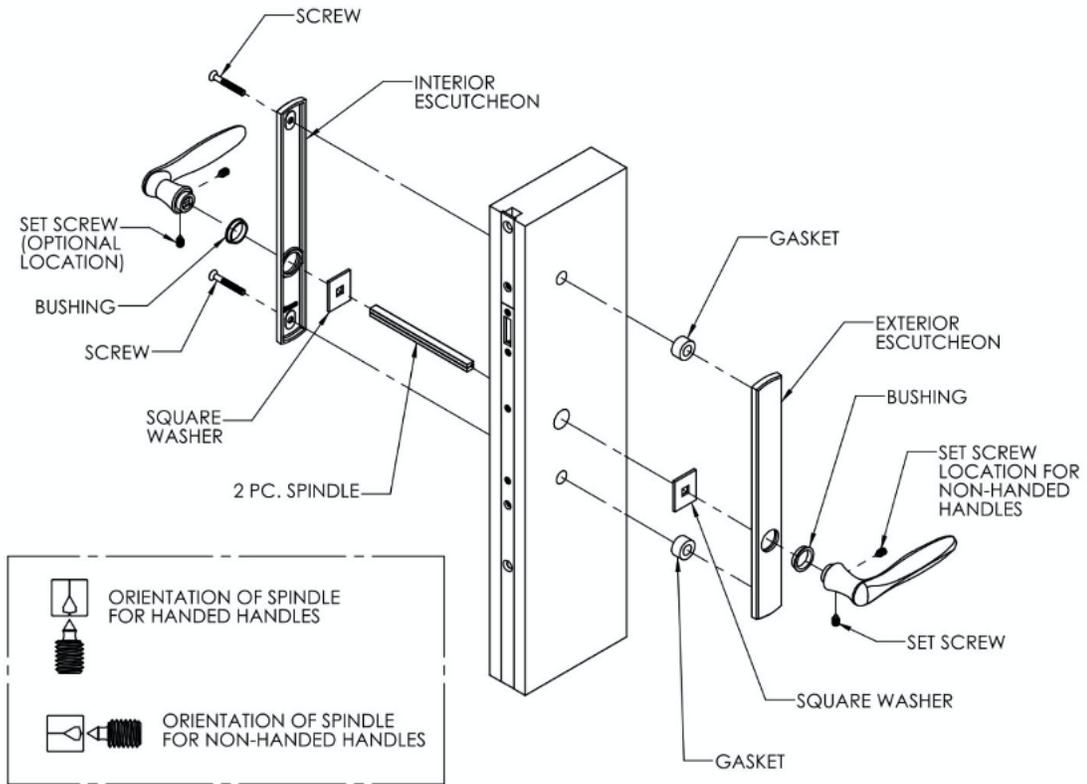


SWING DOOR

INSTALLATION INSTRUCTIONS



PASSIVE ASSEMBLY



SWING DOOR

INSTALLATION INSTRUCTIONS



HINGE ADJUSTMENTS



ALLEN WRENCHES
SUPPLIED FOR
ADJUSTMENTS



UP AND DOWN ADJUSTMENTS.
WILL NEED TO ADJUST ALL
HINGES EVENLY TO DISTRIBUTE
THE WEIGHT EVENLY



REMOVE HINGE CAP
FOR SIDE TO SIDE
ADJUSTMENTS



BACK OUT SET SCREW TO
REMOVE FACE PLATE



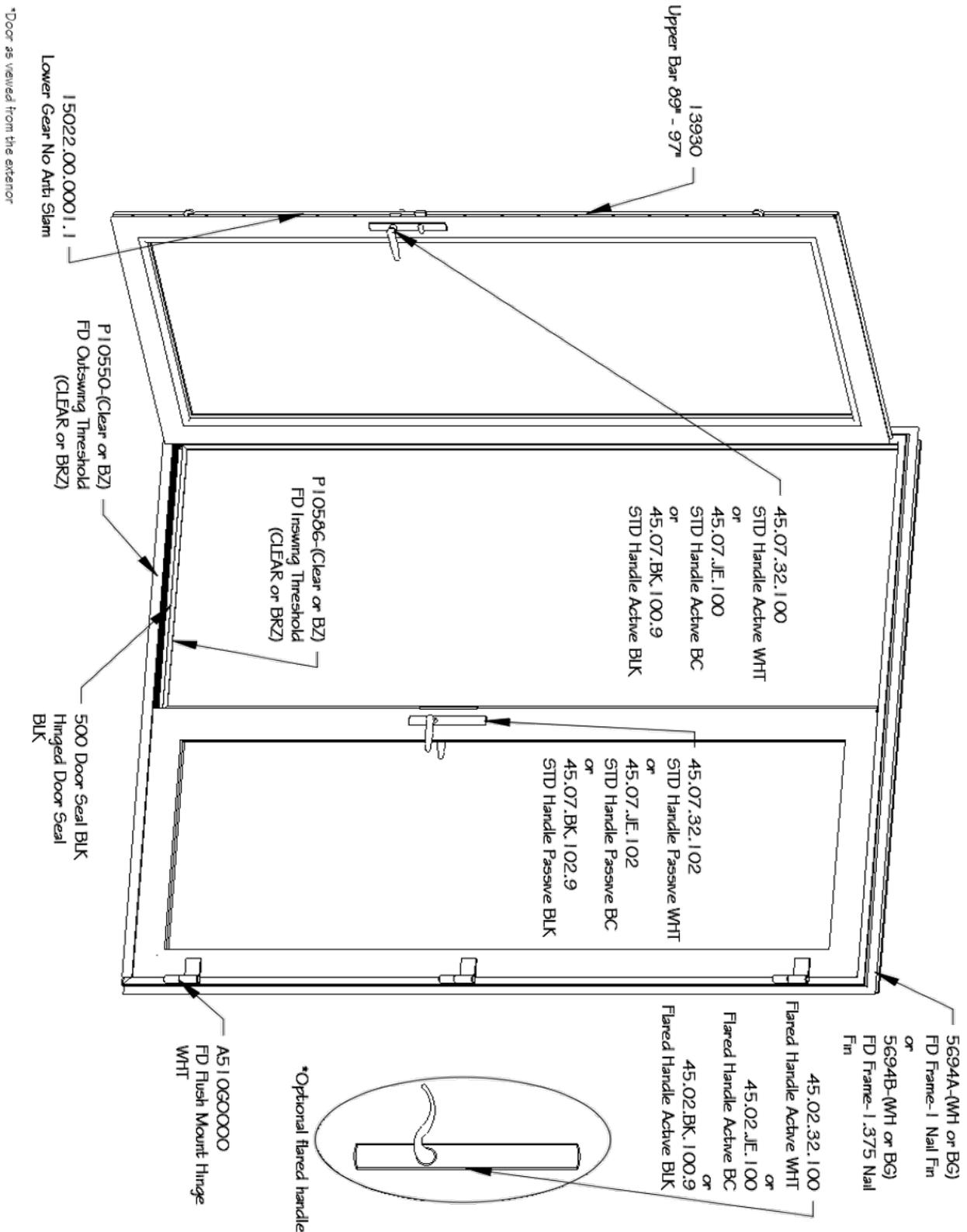
SIDE TO SIDE
ADJUSTMENTS. *MAY NEED
TO SLIGHTLY LOOSEN THE
4 PHILLIPS SCREWS IN
ORDER TO ADJUST EVENLY.
RE-TIGHTEN WHEN DONE.

SWING DOOR

INSTALLATION INSTRUCTIONS

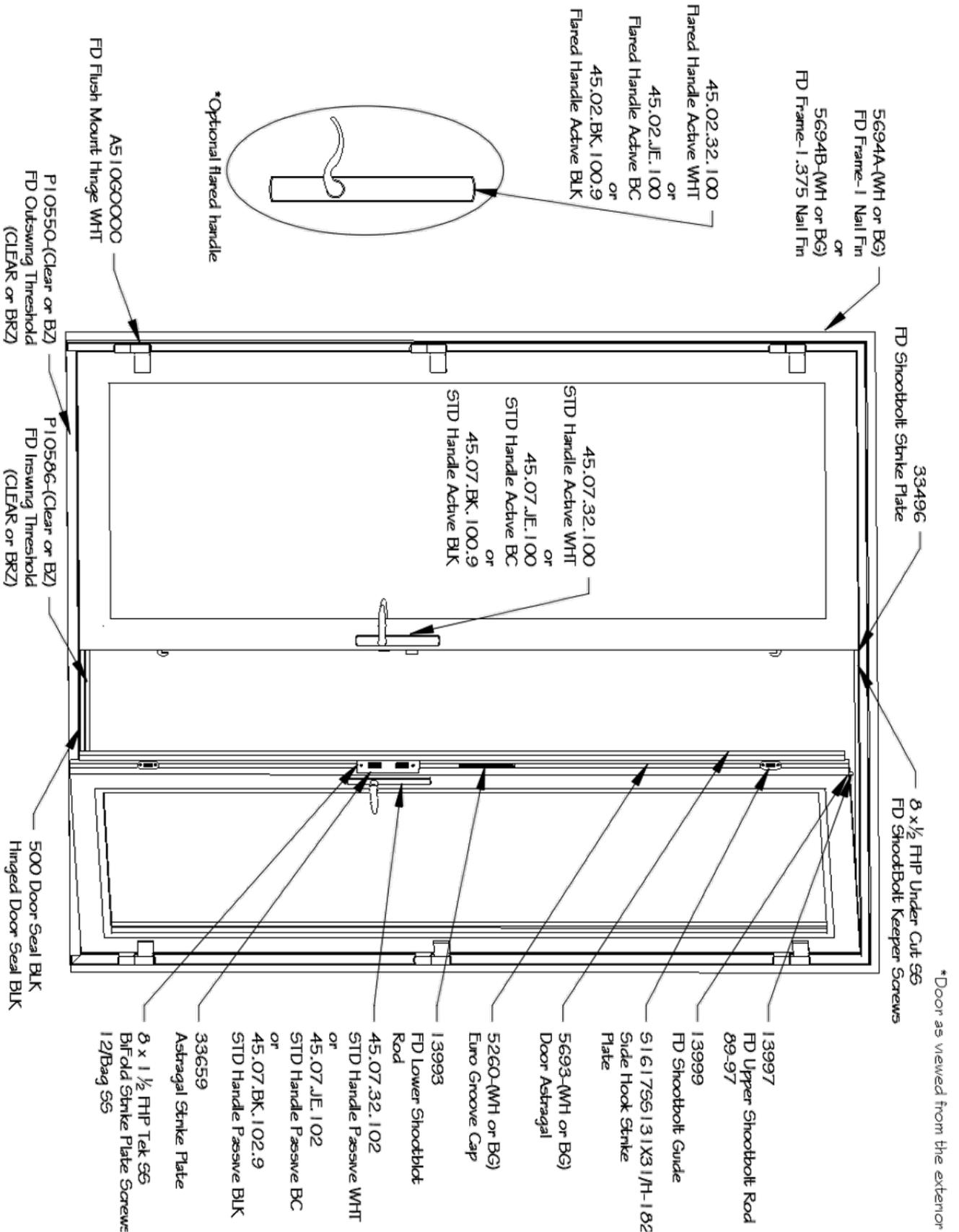


EXPLODED VIEWS



SWING DOOR

INSTALLATION INSTRUCTIONS

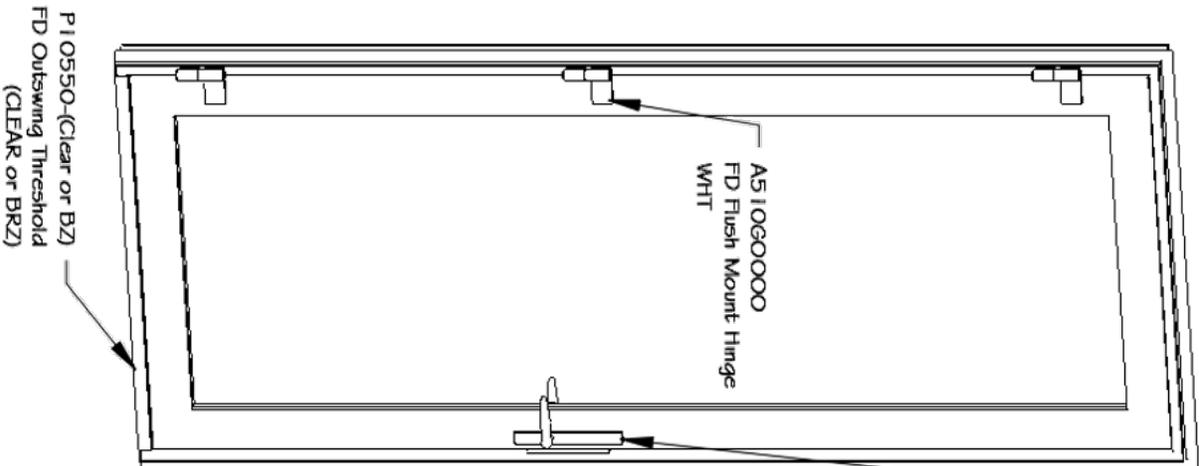
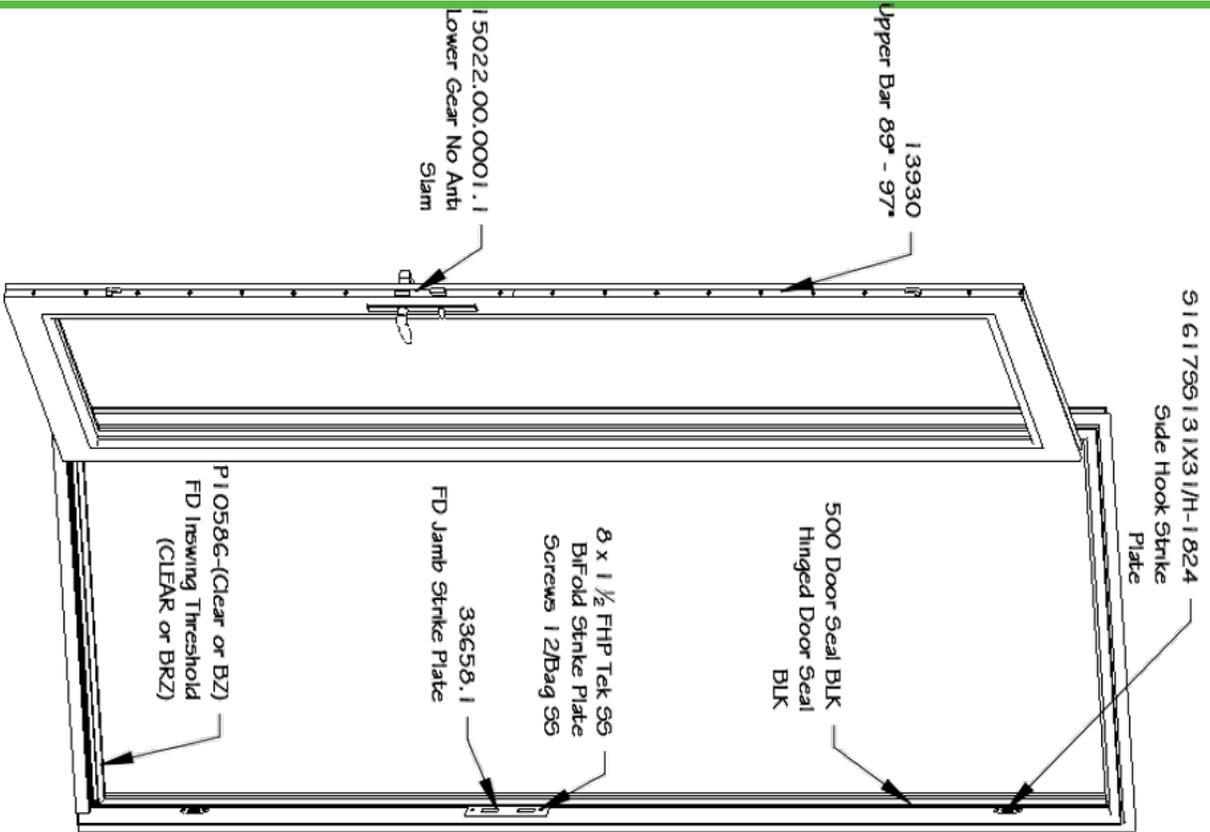


SWING DOOR

INSTALLATION INSTRUCTIONS



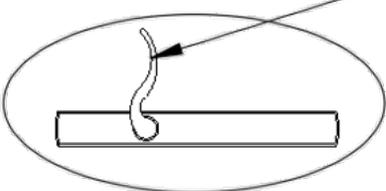
Door as viewed from the exterior



5694A-(WH or BG) FD Frame-1 Nail Fin
 or
 5694B-(WH or BG) FD Frame-1.375 Nail Fin

45.07.32.100 STD Handle Active WHT
 or
 45.07.JE.100 STD Handle Active BC
 or
 45.07.BK.100.9 STD Handle Active BLK

45.02.32.100 Flared Handle Active WHT
 or
 45.02.JE.100 Flared Handle Active BC
 or
 45.02.BK.100.9 Flared Handle Active BLK



*Optional flared handle