MESHTEC Advanced Screen Systems

Surface Mount

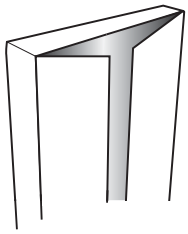
Premium Double Security Screen Door Kit Installation Instructions

UNIQUE HOME DESIGNS

TITAN

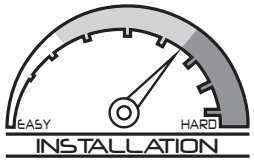
DISREGARD INSTRUCTIONS INCLUDED WITH DOOR PANELS

- Read completely through the kit installation instructions before proceeding with installation
- Installation requires two people
- Use appropriate protective equipment, including safety glasses
- Children should not be allowed in work area
- Failure to install door correctly could result in injury



RETAIN PACKAGING DURING INSTALLATION

Do NOT discard packaging materials until installation is complete



PROFESSIONAL INSTALLATION RECOMMENDED

Above average degree of difficulty. Requires installation experience.

helpmeinstallit.com

NEED HELP?
REVIEW INSTALLATION VIDEO

Even professional installers will benefit from watching.

1-866-317-8867
support@uhdco.com

CONTACT US BEFORE RETURNING

Customer service and technical support are available.
Monday - Friday: 6:30am - 4pm PST

RECOMMENDED TOOLS


Safety Glasses


Measuring Tape

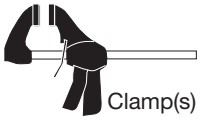

Pencil

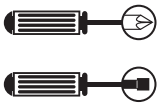

Box Cutter


Drill Bits
3/32" & 7/64"
minimum length: 2-3/4"
1/2" Spade Bit


Drill


Needle Nose Pliers


Clamp(s)


Phillips-head & Flat-blade screwdriver


Square


Tin Snips


Level


1/4" Wood Chisel


Rubber Mallet


Wood Blocks (2"x4"x6")
Shims


Paintable Caulk & Caulk Gun

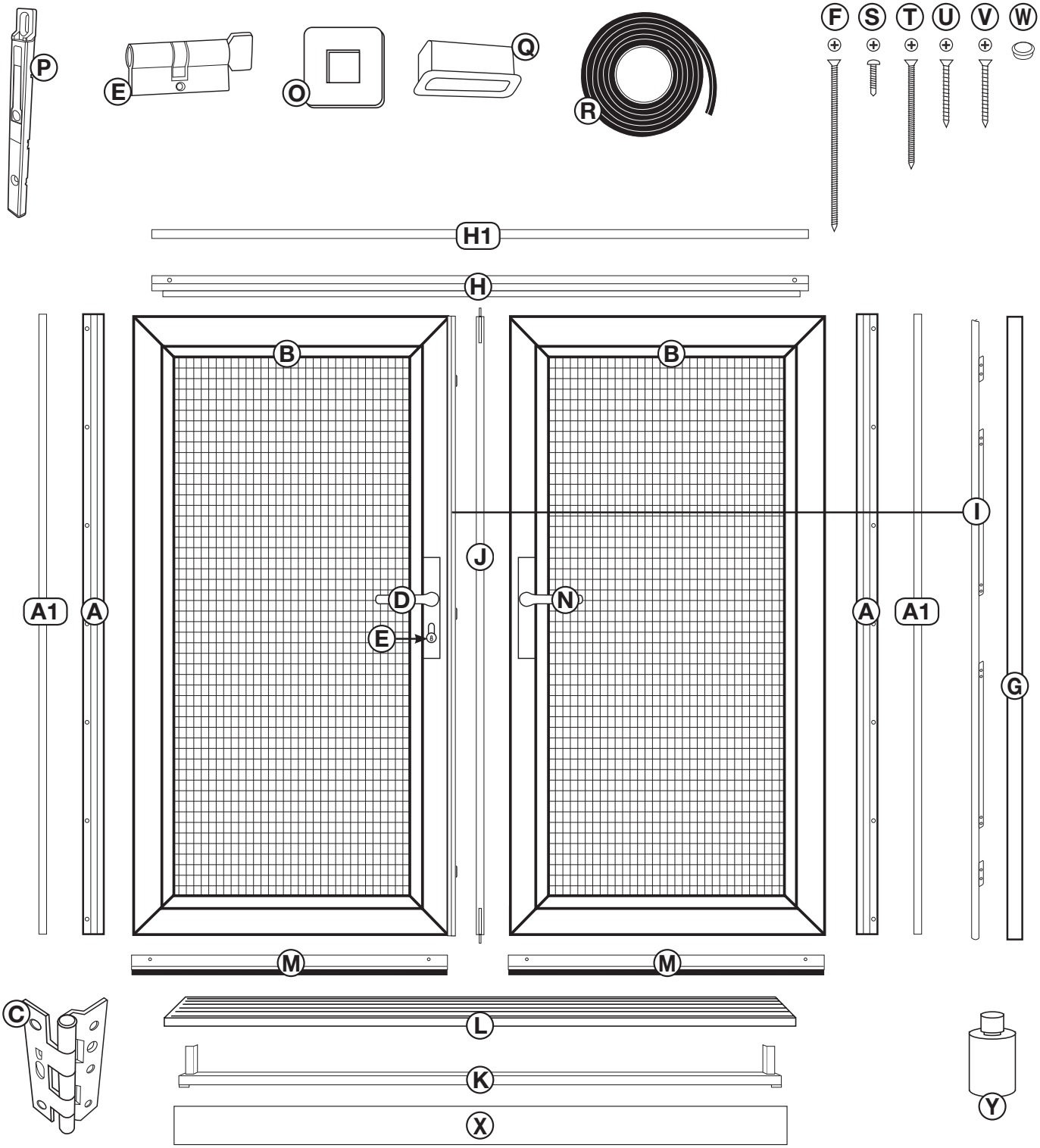
DOOR BOXES (2)

A) Hinge-side jambs (2)
A1) Hinge-side snap covers (2)
B) Security screen doors (2)
C) Hinges (6)
D) Locking handles (2)
E) Lock cylinder (1)
F) #10x3-1/2" flat-head screws (5 pcs.)
G) Throw protector
(do not remove until step 8)

DOUBLE DOOR KIT

PARTS, HARDWARE & FASTENERS:

H) Top header jamb
H1) Top header jamb snap cover
I) Latch guard
J) Astragal
K) Bottom bar
L) Threshold
M) Bug sweeps (2)
N) Dummy handles (2)
O) Dummy handle blocks (2)
P) Shoot bolts (2)
Q) Shoot bolt receiver cups (2)
R) Weather stripping
S) #6 x5/8" pan head screws (white - 24 pcs., black - 13 pcs.)
T) #6x2" temporary dry wall screws (4 pcs)
U) #8x1" flat-head screws
V) #10x1" flat-head screws (6)
W) Screw cover caps (white - 6 pcs)
X) Threshold template
Y) Touch-up paint



1 Identify and prepare mounting surface

Inspect Your Entryway for Obstructions
Check for any obstructions above and around your entryway that may prevent the outward swing of your new security door, and/or its installation, such as:

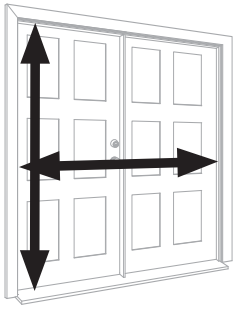
- Light fixtures
- Door bell
- Low overhang
- Trees, bushes, or hanging plants

Determine Type and Readiness of Mounting Surface
Your new security door will require a minimum mounting surface of 1" on the trim above, and on both sides of your entry door. Mounting screws should be secured to a stud in the wall. Review diagrams at right, and determine which one most resembles the trim around the entry door to which you will mount your security door.

Measure Your Opening
Measure between the edges of the left and right mounting surfaces for opening width. Measure between the edge of the upper mounting surface and the existing threshold for opening height. Use the following chart and these measurements to be sure the security door will fit your opening.

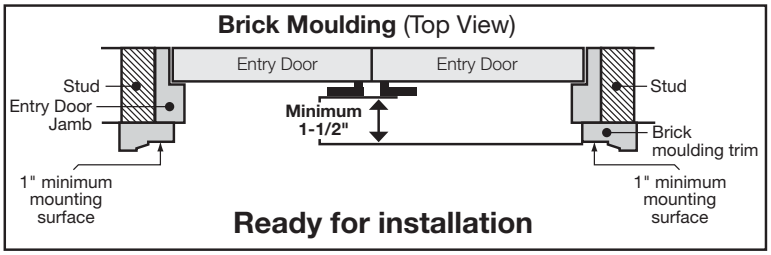
Security Door Size	Fits Door Opening Sizes	
	Width (W)	Height (H)
64" x 80"	64 5/8" - 65 5/8"	78 1/2" - 79 5/8"
72" x 80"	72 5/8" - 73 5/8"	

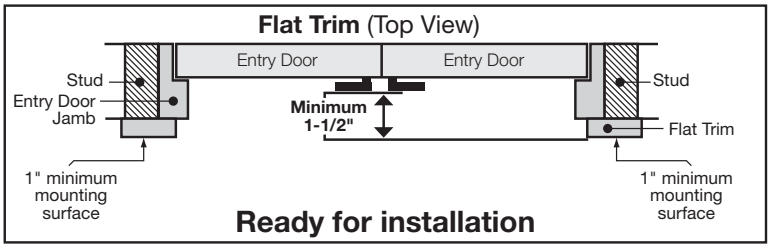
If the opening identified does not fall within the fit range, you can check to see if there is another mounting surface in your entryway that will work, build your mounting surface out using stop or similar trim, or remove and reconfigure your trim to fall within the fit range.

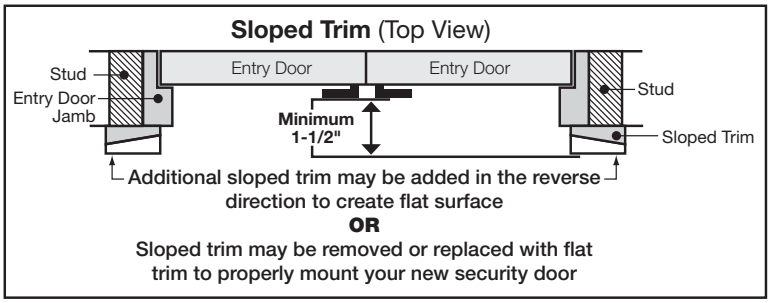


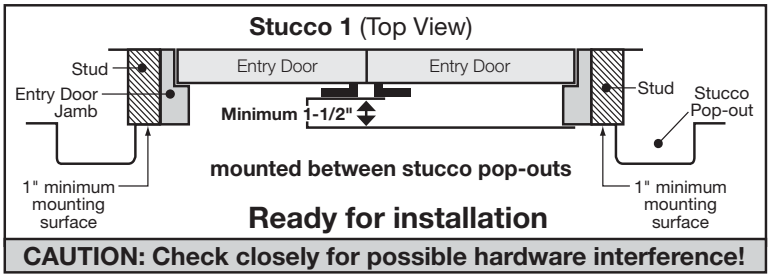
Measure height from inside edge of mounting surface to existing threshold

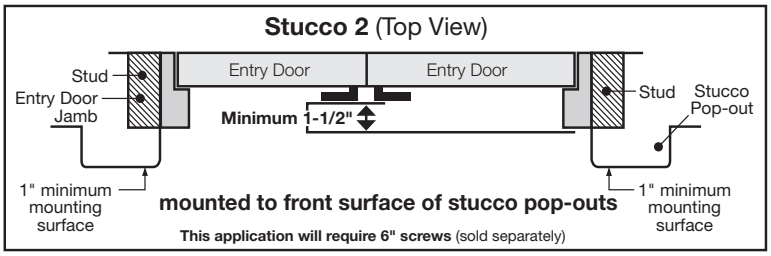
Measure width from inside edge of each mounting surface



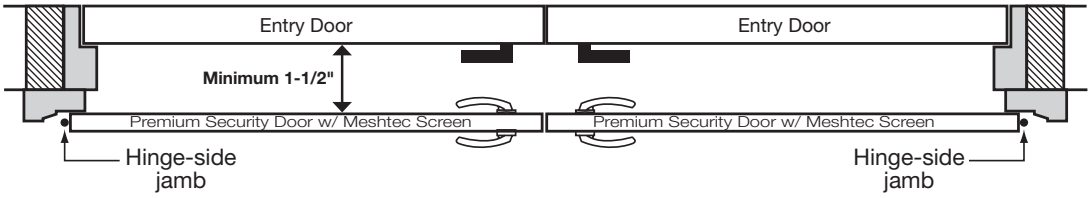








Check for Hardware Interference
Measure the depth from the corner of your mounting surface to your existing entry door hardware. If this measurement is 1-1/2" or greater there is no potential for hardware interference. If the measurement is less than 1-1/2", measure from the edge of the mounting surface on top of the door to the top and bottom edge of the part of your existing hardware that intrudes into the 1-1/2" clearance. If either of these 2 measurements falls between 39-1/4" and 43-1/4", the security door and existing door hardware will interfere with each other. You can either build your mounting surface out to create the clearance required or change out your entry door hardware for lower profile units.

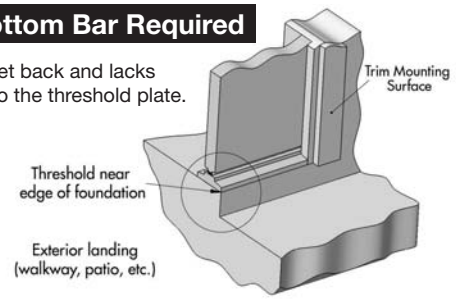


2 Determine your threshold configuration

Look at your existing entry door threshold and use the diagrams below to determine which threshold configuration best applies to your entryway. This will determine whether a bottom bar is or is not required for your security door.

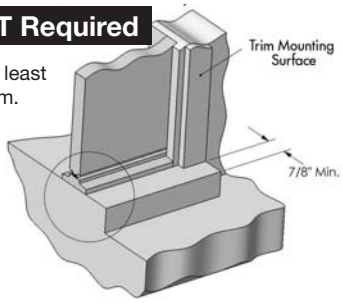
Bottom Bar Required

The concrete is set back and lacks space to mount to the threshold plate.

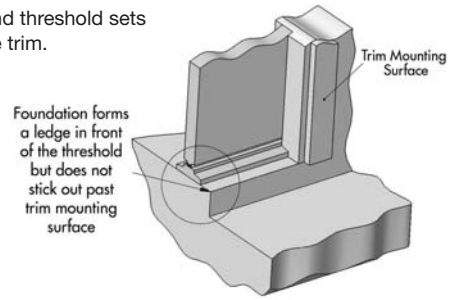


Bottom Bar NOT Required

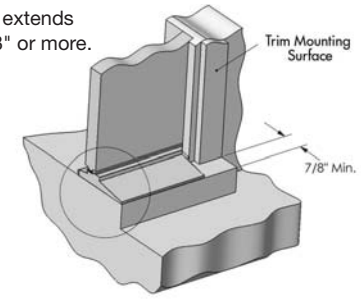
The concrete extends at least 7/8" further than your trim.



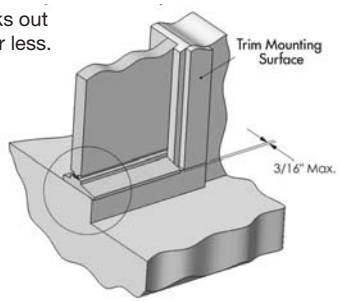
The concrete and threshold sets back behind the trim.



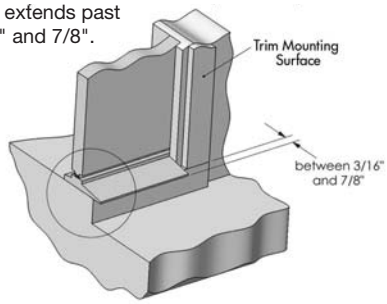
The existing threshold extends beyond the trim by 7/8" or more.



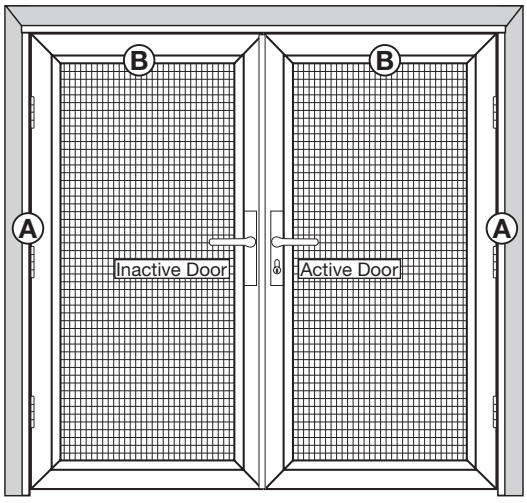
The existing threshold sticks out beyond the trim by 3/16" or less.



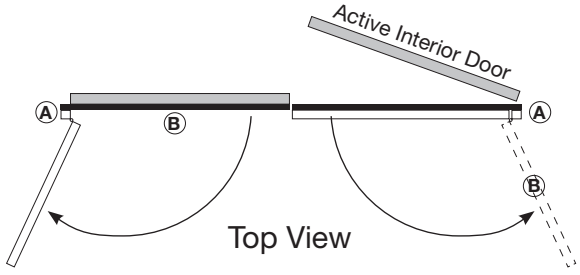
The existing threshold extends past the trim between 3/16" and 7/8".



3 Determine active and inactive doors



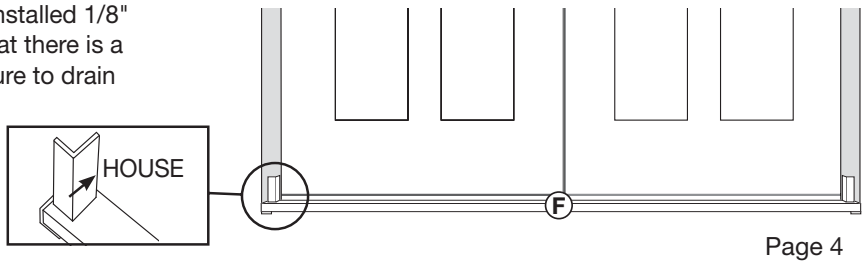
The **active door** should be on the same side as the active main door. Both security doors will be operational. The inactive door will be held stationary by shoot bolts **(P)** at the top and bottom of the door. The shoot bolts can be retracted to open the inactive door.



4 Install bottom bar if necessary

If using the bottom bar **(K)** it will need to be installed 1/8" to 1/4" lower than the existing doorway so that there is a slope to the threshold. This allows any moisture to drain away from the door.

Center the bottom bar in the door opening being sure the bracket opening is toward the house.



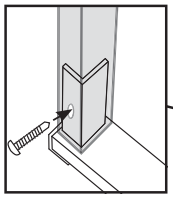
5 Install side jambs

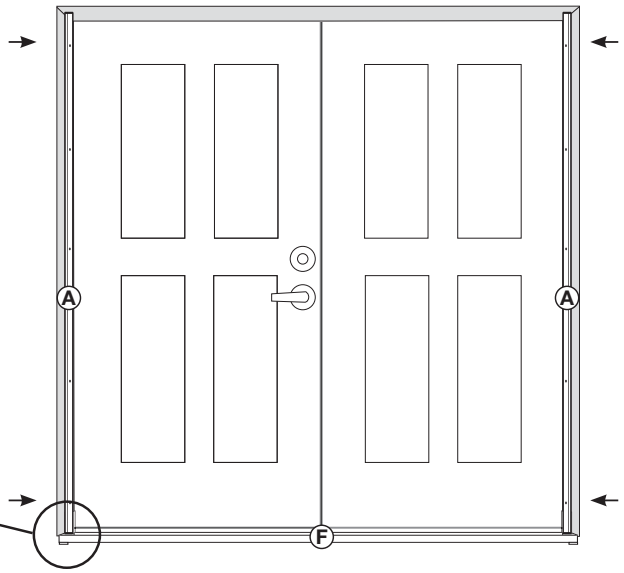
Place the active door hinge-side jamb **(A)** into position over bottom bar **(F)**.Be sure that it is plumb and level against the mounting surface. Install using two temporary mounting screws (#6x2" temporary drywall screws **(T)**) one at the top and one at the bottom.

Place the inactive door hinge-side jamb **(A)** into position over bottom bar **(K)**.Be sure that it is plumb and level against the mounting surface. Install using two temporary mounting screws (#6x2" temporary drywall screws **(T)**) one at the top and one at the bottom.

These screws are inserted to temporarily hold the jambs in place. **Do NOT install permanent screws.**

Install bottom bar using two black #6x5/8" pan head screws **(S)** as shown.

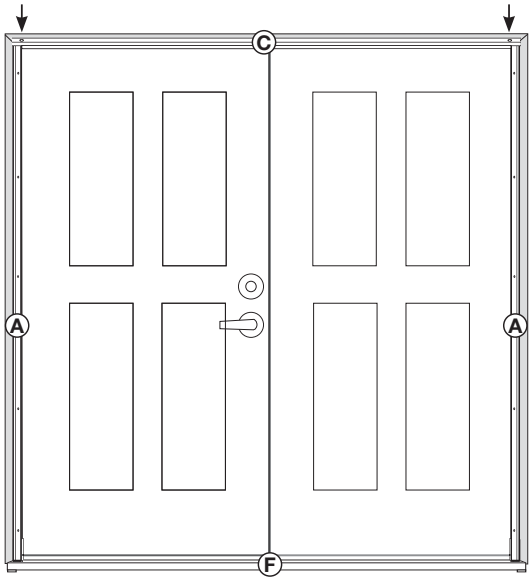




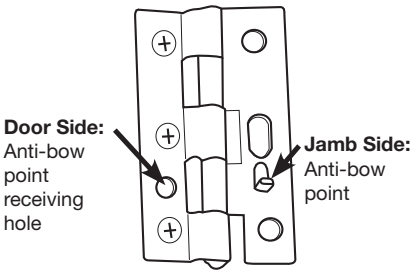
6 Install top header jamb

Place the top header jamb **(H)** into position, aligning flush on both ends with each hinge-side jamb **(A)**. If necessary, loosen the top temporary screw(s) on the side jamb(s) **(A)** to make the top header jamb flush. Use two temporary mounting screws (#6x2" temporary drywall screws **(T)**) to attach top header jamb, one at the right and one at the left. Re-check plumb and level of side jambs and adjust as needed.

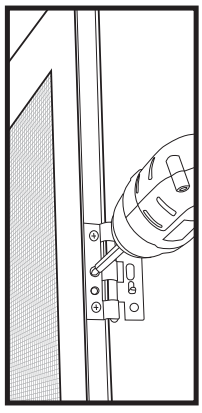
These screws are inserted to temporarily hold the jambs in place. **Do NOT install permanent screw.**



7 Attach hinges to doors



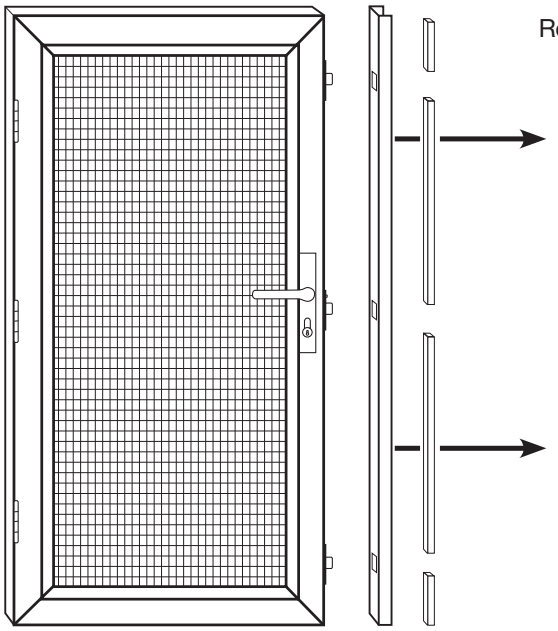
Note: The Anti-bow point receiving hole lines up with the pre-drilled hole on the door.



Place hinge **(C)** over pre-drilled holes on the door. The flat part of the hinge attaches to the door. The barrel of the hinge should always be on the outside of the door. Use screws provided with the hinges and attach all 3 hinges to each door.

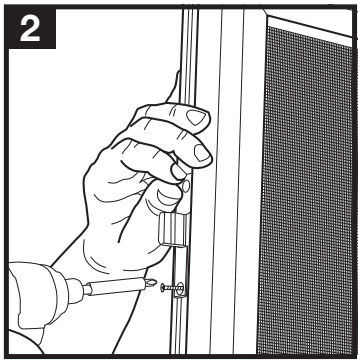
CAUTION: Do NOT lay door on it's side so that it rests on the 3-point lock throws. This will cause the system to offset and you will need to remove and reset the locking system (see step 17).

8 Remove throw protectors

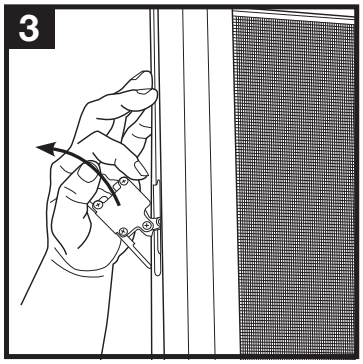


Remove tape and discard throw protectors **(G)**.

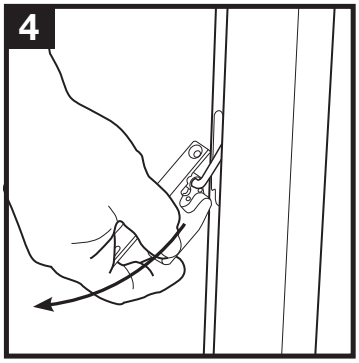
9 Prepare inactive door



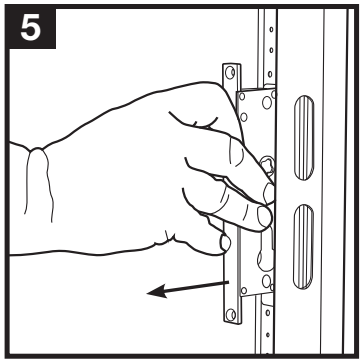
Remove the mounting screws on all three locks of the inactive door.



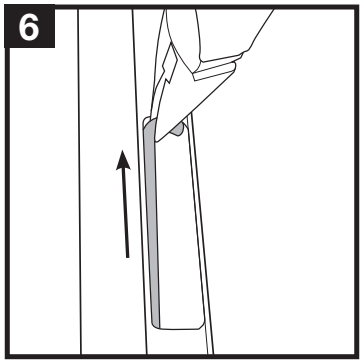
Lift the top lock up and out of the edge of the door and un-attach the rod hooked to the rear of the latch assembly.



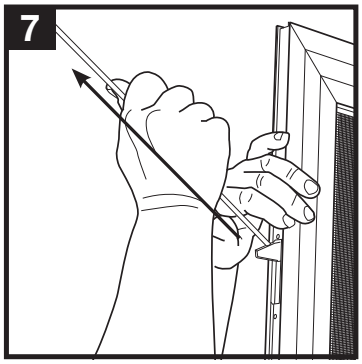
Pull the bottom lock down and out.



Remove the two screws in the mortise gear and center lock and pull out the assembly.

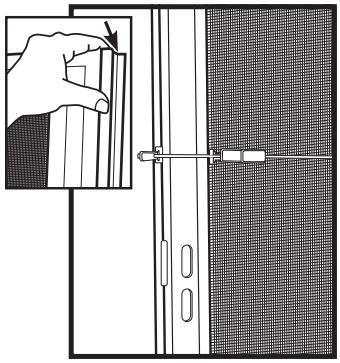


Using needle-nose pliers, grasp the rod assembly through the mortise gear in the center lock opening.

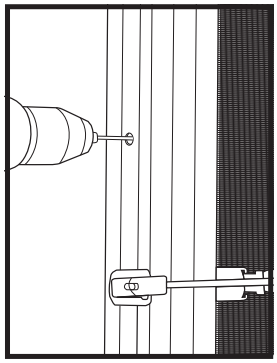


Grab the rod assembly through the top lock opening and pull the entire assembly out.

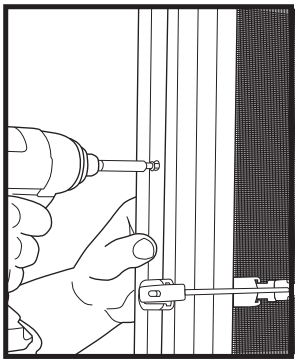
10 Install astragal on inactive door



Place the astragal **(J)** on the inactive door so the top edge is even with the top edge of the door panel. Clamp in place.

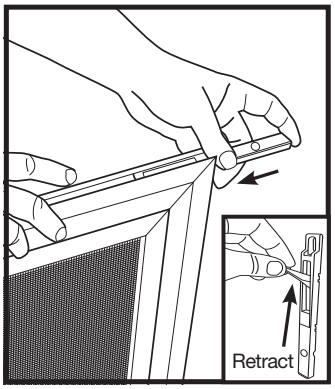


Pre-drill mounting holes into the inactive door panel through the four mounting holes in the astragal **(J)** using a 3/32" drill bit.

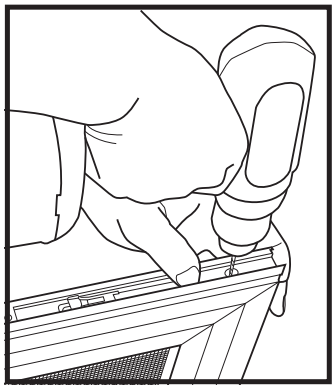


Attach the astragal **(J)** to the inactive door using #10x1" flat-head screws **(V)**.

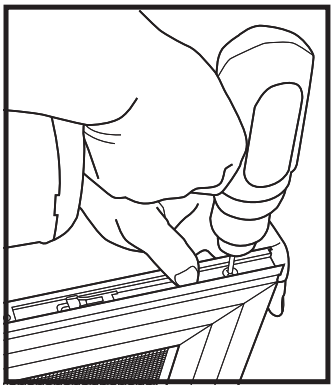
11 Install top shoot bolt in astragal



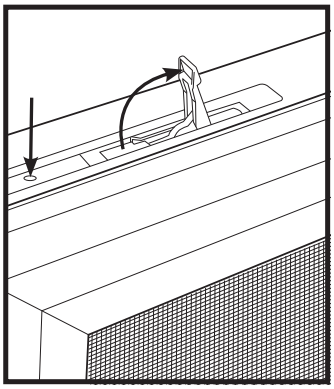
Retract the shoot bolt **(P)** using the lever indicated by the red dot. With door panel laying on hinge-side, slide the shoot bolt in the top of the astragal so it is flush with the top edge of the astragal **(J)**.



Using the mounting hole in the shoot bolt **(P)** as a guide, use a 7/64" drill bit to pre-drill the exposed top mounting hole in the astragal **(J)**.

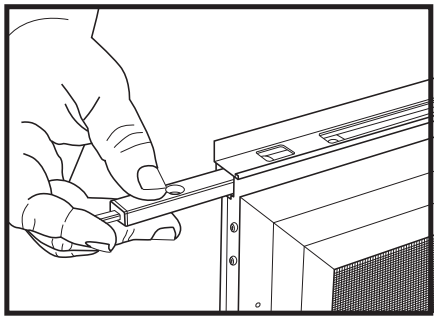


Install top screw (#8x1" flat-head screw **(U)**).

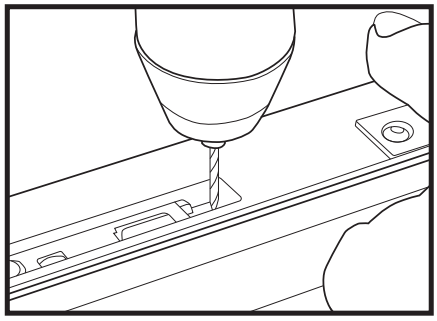


Deploy the shoot bolt lever to expose the bottom mounting hole. Use a 7/64" drill bit to pre-drill the bottom mounting hole. Finish attaching shoot bolt **(P)** to astragal **(J)** using a #8x1" flat-head screw **(U)**.

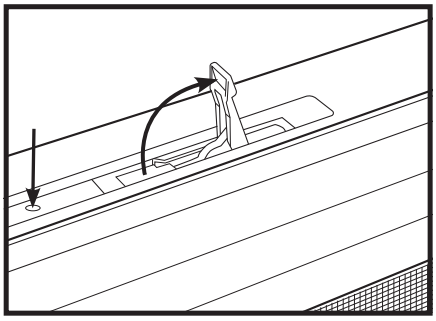
12 Install bottom shoot bolt in astragal



Slide the shoot bolt **(P)** into the astragal **(J)** at the bottom of the inactive door. Retract the shoot bolt by pulling up on the lever and position shoot bolt flush with the bottom of the astragal.

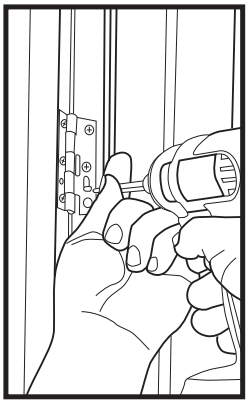


Using the exposed mounting hole in the shoot bolt **(P)** as a guide use a 7/64" drill bit to pre-drill a mounting hole in the door edge. Attach using #8x1" flat-head screw **(U)**).



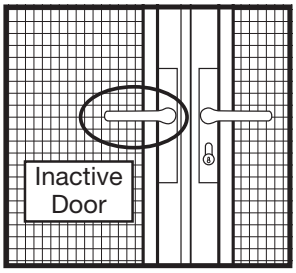
Deploy the shoot bolt lever to expose the bottom mounting hole. Use a 7/64" drill bit to pre-drill the bottom mounting hole. Finish attaching shoot bolt **(P)** with #8x1" flat-head screw **(U)**.

13 Hang door panels

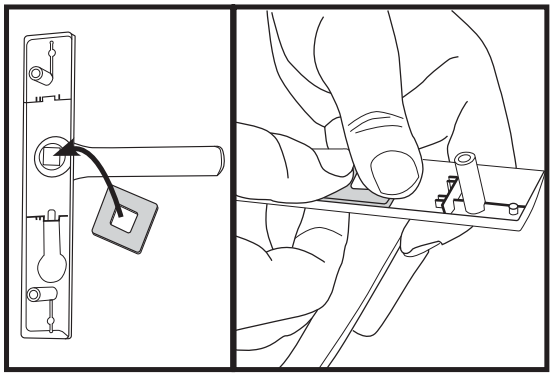


Have a helper hold each door in place. It is important the door is held in proper alignment so the first mounting screw in each hinge is driven straight into the door panel. It may help to use blocks or similar props to assist in keeping the door properly aligned. Attach all 3 hinges on each door to the frame using two #8x1" flat-head screws **(U)** in each hinge.

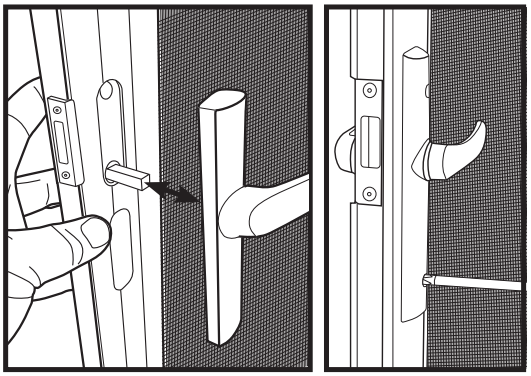
14 Install inactive door dummy handle



Make sure to orient handles in desired direction depending on right or left location of inactive door.



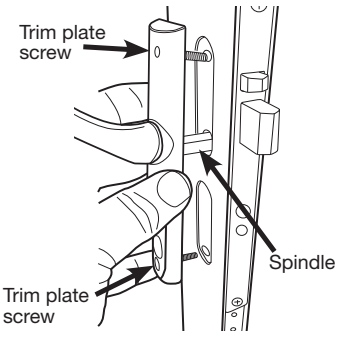
Install dummy handle block **(O)** on the back of each dummy handle **(N)**. Tap block into place as needed so it is flush with the trim plate.



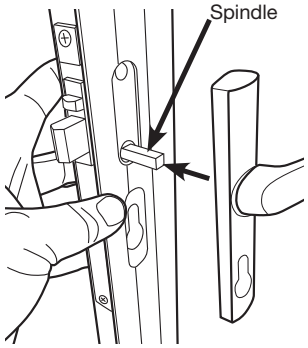
Insert dummy handle **(N)** with spindle through the interior of the active door and into the opposite dummy handle. Attach the handles using two 1" fine thread bolts included with the handle set. Leave each screw loose by ½ turn. They will be tightened in step 15.

15 Install active door handle and lockset

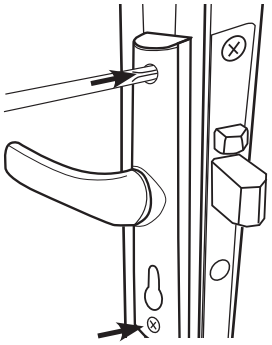
1) Start on the **interior** side of the door. With the handle **(D)** facing toward the screen, insert the spindle and mounting screws through the mortise gear in the door panel.



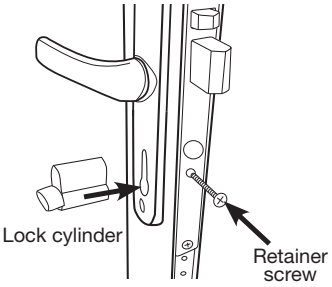
2) Move to the exterior of the active door. With the handle pointing toward the active door panel hinges, align the openings on the inside of the other handle **(D)** with the spindle and 2 mounting screws and position the handle against the door frame.



3) While holding both handle trim plates in place, tighten the mounting screws and then back off 2 turns. These screws will be tightened after the lock cylinder is installed.



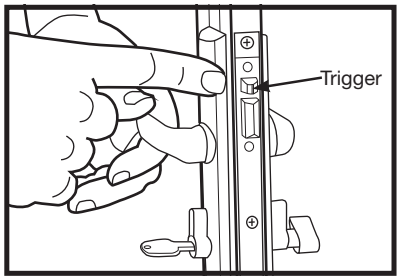
4) From the inside of the door, insert the lock cylinder **(E)** into the door through the trim plate. Using a Phillips-head screw driver, tighten the retainer screw until snug. Do **NOT** over-tighten. Tighten the two handle mounting screws until snug.



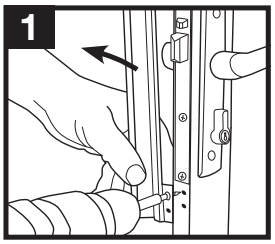
16 Test locking mechanism

With the door open, retract the 3-point locking mechanism using the key or the thumb turn. Keep the door **OPEN** and test the mechanism by first depressing the 3-point locking system trigger, then deploying the locks using the key or thumb turn. If the locks will not deploy, the system has been offset and must be manually reset..

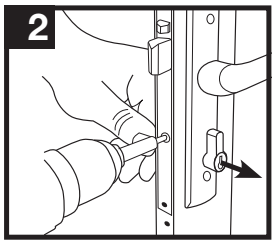
If test is successful, install screw cover caps included with door handles on interior and exterior sides of door handles. If not, proceed to step 17 before installing screw cover caps.



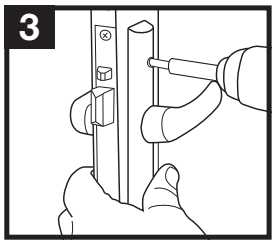
17 Reset locking mechanism IF REQUIRED



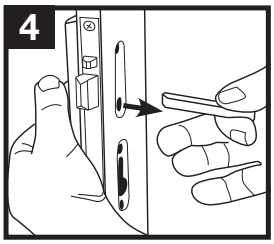
Remove latch guard, if installed (4 mounting screws, 2 top, 2 bottom, on edge of door frame).



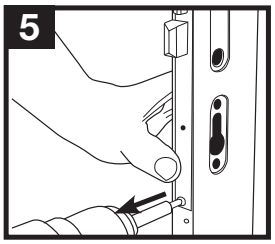
Remove cylinder by removing set screw through edge of door panel and pulling cylinder out of the door.



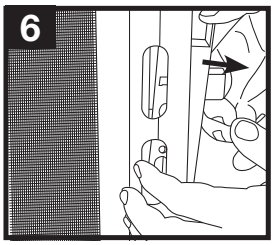
Remove handleset trim plates (2 mounting screws) – hold handles so they do not drop to floor.



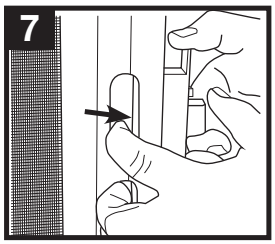
Remove handles and spindle.



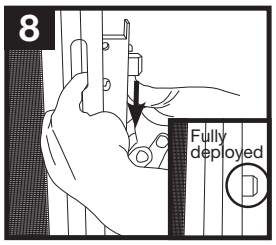
Remove the 2 mortise lock mounting screws in edge of door panel.



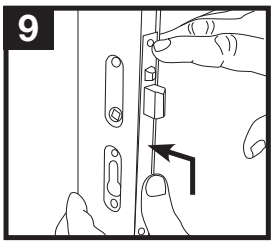
Grab main throw with one hand and pull mortise lock part way out of edge of door.



Place other hand BEHIND the black plastic linkage connector and keep pressure on it so that it stays connected to the mortise lock as you pull the mortise lock until it is almost out of the door.



With one hand still keeping pressure on the connector so it remains attached to the lock, use the other hand to move the lockset down. Listen for it to click, the top and bottom lock throws will fully deploy.



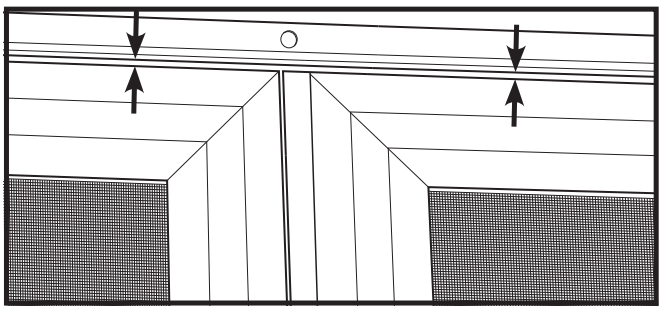
Ensuring the linkage connecter stays attached to the back of the lockset, raise and slide the lockset back into the door panel.

10

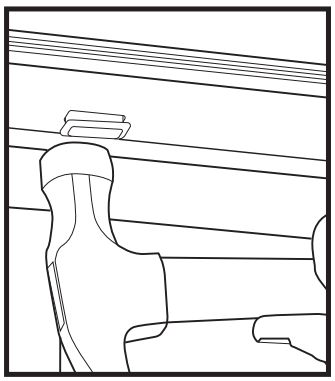
Re-install the lockset, spindle, handleset, cylinder, and latch guard (if removed) by reversing the removal procedure.

18 Adjust and align top reveal

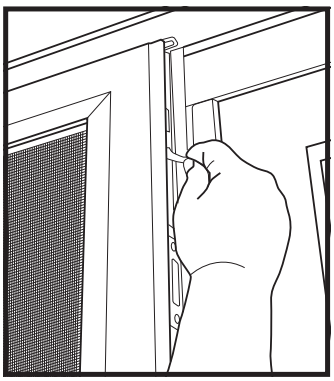
Close both the active and inactive doors. Both doors should align at the top with an even reveal. If adjustment is necessary loosen (do **NOT** remove) the top temporary jamb screws from each side jamb. Use a rubber mallet to tap the right or left side jamb so doors become aligned. Re-tighten temporary screws.



19 Install top shoot bolt receiver cup



Install the top shoot bolt receiver cup **(Q)** into the top header jamb **(H)**. Using a hammer or rubber mallet, gently tap the shoot bolt receiver cup into the pre-cut hole in the top header jamb until flush.

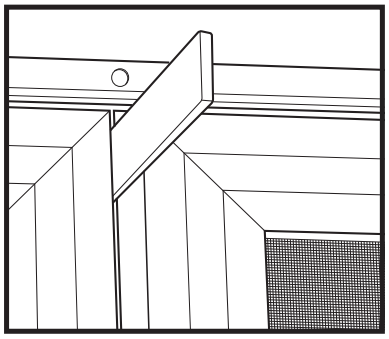


Close the inactive door and deploy the shoot bolt **(P)** to test for proper fit.

20 Adjust and align center reveal

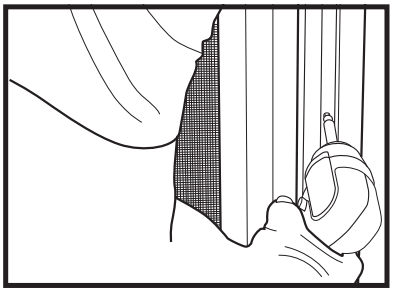
Close both the active and inactive doors **(B)**. Both doors should align down the center with an even 1/8" reveal. If adjustment is necessary loosen (do **NOT** remove) applicable temporary jamb mounting screws. Use a rubber mallet to tap the right or left side jambs **(A)** in small increments, so doors become aligned and reveal is even. Hint: place a shim between the doors to help maintain the reveal while making adjustments. Re-tighten temporary screws as adjustments are made.

Re-check for plumb. If necessary slightly loosen temporary screws and place shim(s) between security door frame and house. Re-tighten temporary screws.

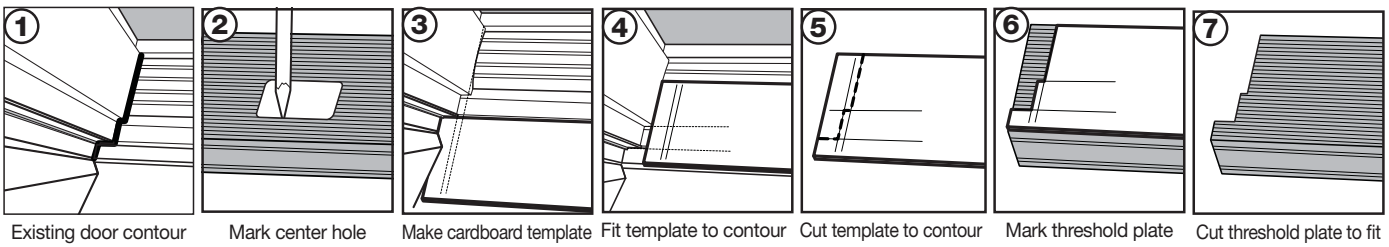


21 Install permanent mounting screws

Pre-drill through mounting holes without temporary screws using a 3/32"drill bit. Install permanent screws (#10 x3-1/2" self-tapping flat-head screws **(F)**) into mounting holes. Remove temporary screws one at a time and replace with permanent screws (#10 x3-1/2" self-tapping flat-head screws **(F)**).



22 Install threshold plate



Existing door contour | Mark center hole | Make cardboard template | Fit template to contour | Cut template to contour | Mark threshold plate | Cut threshold plate to fit

1. The contour of door framing varies, making it necessary to cut the threshold **(L)** to fit. We recommend cutting a cardboard template to fit the opening first, to avoid cutting the threshold incorrectly.

2. Place the threshold template **(X)** on the under-side of the threshold plate flush at both ends. Mark the pre-punched rectangle in the center and trim out the hole.

3. Lay cardboard template provided **(X)** on top of the bottom bar and push into existing threshold as far as it will go. Align the hole in the center of the template with the bottom of the shoot bolt and center. Using a straight edge, mark the template at the various widths of your existing moulding and trim at both ends.

22 Install threshold plate (continued)

④ Move template so that front edge is flush to the front edge of bottom bar (it is okay to bend template to allow to fit the shortest width between your moulding and trim). Mark at the various corners of your existing moulding keeping in mind the shoot bolt receiver cup **(Q)** is in the center of the opening so the template must be lined up accordingly, then trim.

⑤ Using box cutter, cut template to shape of moulding and trim revealed by the markings. Test fit the template. (It should lay across the bottom bar, with the front edge flush to the front edge of the bottom bar, and fit in and around the corners of the existing moulding and trim.)

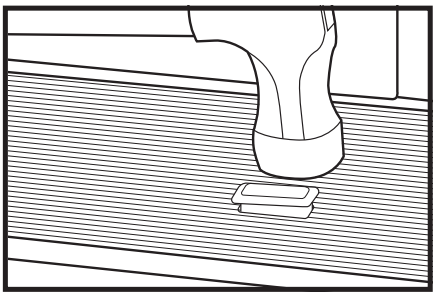
⑥ Once you have created a good template, use the template to mark the threshold plate.

⑦ Using tin snips/aviator snips, cut threshold plate to match the shape of the template **(6)**. Position threshold plate to extend across the bottom bar and into the existing threshold. Use 1/8" drill bit to pre-drill holes for mounting screws. Attach threshold plate to existing threshold using the provided screws.

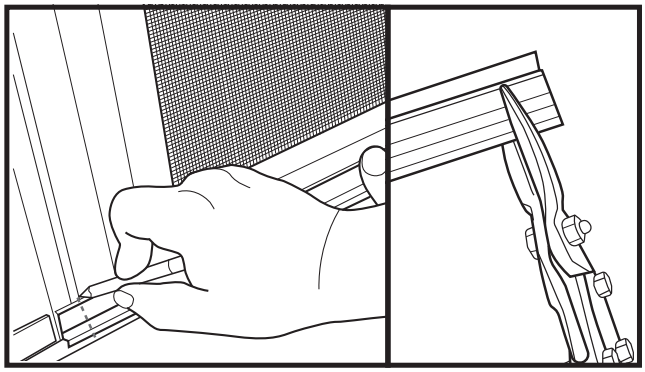
23 Install bottom shoot bolt receiver cup

Install the bottom shoot bolt receiver cup **(Q)** into the threshold **(L)**. Using a hammer or rubber mallet, gently tap the shoot bolt receiver cup into the pre-cut hole in the threshold until flush.

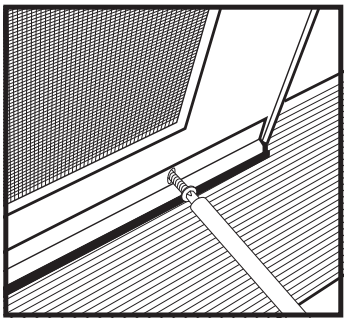
Close the inactive door and deploy the shoot bolt **(P)** to test for proper fit.



24 Install bug sweeps



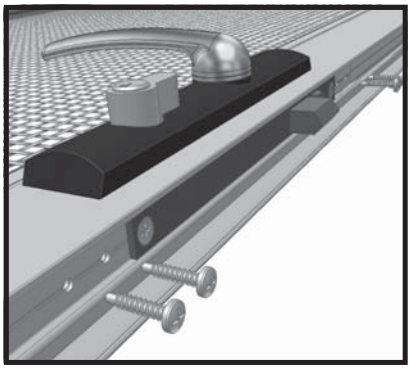
With both doors closed, position a bug sweep **(M)** on the bottom of the active door against the hinge-side jamb. Mark where the active door meets the edge of the astragal mounted to the passive door and trim using tin snips.



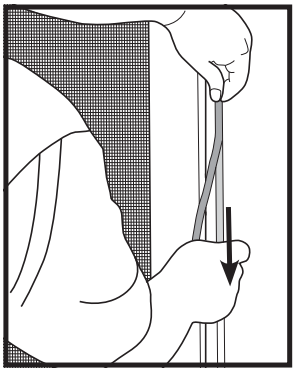
Place bug sweep **(M)** against active door and adjust up or down until the bottom of the sweep rests on the threshold. Attach the bug sweep using the screws provided. Repeat process, without trimming, for inactive door sweep. Attach bug sweeps using white #6x5/8 pan head screws **(S)**.

25 Install latch guard

Hold or clamp latch guard in place even with the top of the active door aligning with the pre-drilled mounting holes in the door panel **(B)**. Using a 3/32" drill bit, pre-drill holed in the door panel through the mounting holes in the latch guard and attach using six white #6x5/8" pan head screws **(S)**.



26 Install astragal weather stripping



Install weather stripping **(R)** to the full length of the stop leg of the astragal **(J)** (where the active door closes against the astragal). Start at the top, remove approximately 6 inches of the protective backing at a time and adhere to the astragal. Slowly and carefully work your way down the full length of the door. Trim at the bottom as needed.

27 Install snap covers

Place the snap cover **(A1)** in the first hinge-side jamb **(Fig. 4, step 1)**. Using a rubber mallet, hit on the side of snap cover seen in **(Fig. 5)** to securely snap cover into place. Once snap cover is secured, hold a wood block over the length of the snap cover and hit with mallet to smooth any irregularities in the snap cover surface.

Repeat process for the second hinge-side jamb **(A1)** and top header **(H1)** snap covers.

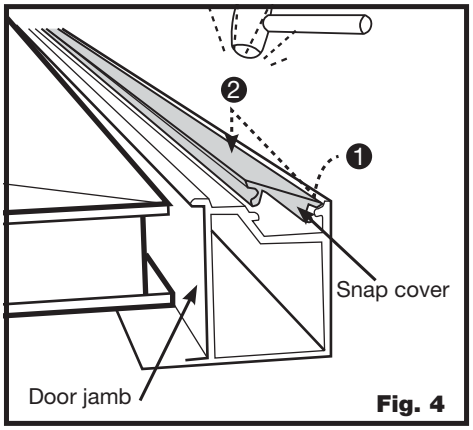


Fig. 4

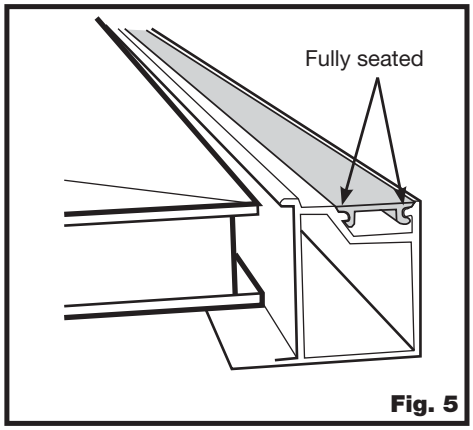
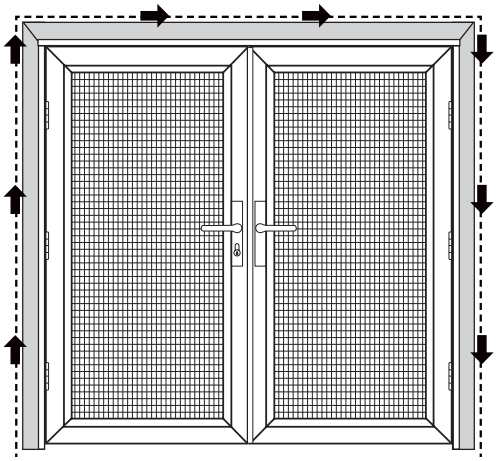


Fig. 5

Final touch-up suggestions



① **Caulk (not included)**
Caulk around the outside of the security door jamb frame, using paintable caulk, and paint to the desired color.

② **White Grease Lubricant (not included)**
Use white grease to lubricate the hinges of your new security door.

Care and maintenance

Over time, airborne dust, dirt, and impurities can accumulate, which will cause visual defects to your Meshtec screen and, if not regularly and properly removed, can lead to further damage, staining, and corrosion. Your cleaning schedule depends upon your environment:

Environment	Description	Cleaning Schedule
Mild	Inland, rural, and away from industry and urban activity	every 6 months
Moderate	Urban/suburban, inland, and away from heavy industry	every 3 months
Extreme	Urban/suburban, coastal (within 25 miles), or near heavy industry	every 2-4 weeks

Thoroughly wash the screen and door frame using a soft cloth, mild soap, and water. Take care to avoid exposing handles, main lock, and 3-point locks to excessive amounts of water. Using a dry, soft cloth, remove any excess water when done. Pay particular attention to drying the screen to frame attachment area fully. Avoid using any sharp objects or abrasive materials on the door frame or screen. Use white grease to lubricate the hinges at each cleaning.

Warranty

Your Unique Home Designs security door with Meshtec Advanced Screen System is warranted against manufacturer defects under normal, residential use for the first 10 years you own the product, and terminates if you sell or otherwise transfer the product or the property upon which it was installed. An additional 5 years warranty protection is awarded (for 15 year total warranty) when the product is registered on-line at uniquehd.com/registration. Bug sweeps, weather-stripping, composite materials, and hardware included with or installed on the security door are covered for one year from date of purchase. Accessories fitted to the security door are not covered by this warranty, including but not limited to locks, handles, rollers, and closers. These accessories may be covered by warranties provided by the manufacturer or supplier of the products. Any problem caused by abuse, misuse, failure to follow care and maintenance instructions, adjustments due to settling of the structure that the product is mounted on, improper installation, or acts of God are not covered. Cutting parts not specified by the installation guide and parts drilled incorrectly are not included in this warranty. If manufacturer defects occur, Unique Home Designs will, at our discretion, either repair or replace the door. If your home is burglarized and entry was accomplished through a UHD security door, locked with the 3 point locking system, while this warranty is in effect, UHD will pay your insurance deductible up to $1000 or replace, as applicable, the damaged UHD security door at no charge. Replacement items may vary in style due to changes in suppliers and product. Not all colors can be reproduced if colors have been discontinued. UHD is not responsible for any labor expense required to repair or replace the door. UHD is not responsible for securing the property while warranted items are being repaired or replaced.

To make a claim under this Warranty, send a brief written description of the problem, a picture of the claim, proof of purchase, and your contact information to: Unique Home Designs, 973 N. Colorado Street, Gilbert AZ. 85233
Attn.: Warranty Claims

Extend Your Warranty!

When you register on-line at uniquehd.com/registration