record

# Installation Manual

## Manual Sliding Door

## **Record 5950**

Your global partner for
entrance solutions

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**Document identification**

| | |
|---|---|
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# Table of Contents

# 1 Revision

| Pages | Revision | Date | Comments |
|---|---|---|---|
| | 1.0 | 02-03-26 | Original Release |
| 59-80 | 1.1 | 02-27-26 | Content Additions |
| 22 | 1.2 | 03-13-26 | Content Additions to Tools Required |
| | | | |

# 2 Safety

## 2.1 Presentation of Warning Signs

**DANGER**

**Warning against an imminent or latent hazardous situation that can lead to electric shock and cause serious injury or death.**

**DANGER**

**Warning against an imminent or hazardous situation that can lead to severe injury or death.**

**WARNING**

**Warning against latent hazardous situation that can lead to severe injuries or death and cause substantial property damage.**

**CAUTION**

**Warning against a potential hazardous situation that can lead to minor personal injury and property damage.**

**NOTICE**

**Useful advice and information to make sure of a correct and efficient workflow of the system.**

## 2.2 General Hazards

The system can cause the hazards in this section even when it is used as intended.

To reduce the risk of malfunction, damage to property or injury to persons, and to avoid dangerous situations, the safety instructions listed here must be observed. Save this manual for future reference.

The specific safety instructions in the other sections of this manual must also be observed.

## DANGER

**Electric current.**

In case of contact with live parts, there is an immediate danger to life because of electric shock. Damage to or removal of the insulation or individual components can be life-threatening.

- Make sure that only approved personnel work on the electrical system.
- Make sure that all poles are voltage free and that this is maintained for the duration of the work.
- Disconnect all poles from voltage before you start the work (cleaning, maintenance, replacement) on active parts of the electrical systems and the equipment.
- Keep moisture away from live parts. This can lead to a short circuit.
- Do not bridge fuses or put them out of operation.
- Do not connect the power supply or a battery until all work has been completed.
- Do not use a damaged supply cord. Only the manufacturer, its service agent or a similarly qualified person is permitted to replace a damaged supply cord.

## DANGER

**Faulty connection of the mains power supply.**

Risk of electric shock and property damage if the mains power supply to the system is not installed safely.

- The mains power supply must be installed with protection (fuse, circuit breaker).
- An all-pole mains disconnection switch with isolating capabilities of Category III must be installed.
- All installation must be done correctly. Refer to local regulations.

## DANGER

**Fire in an electronic system.**

Risk of electric shock if you use a water-based fire extinguisher for a fire in an electrical system.

- Use a fire extinguisher of type carbon dioxide ($CO_2$) or ABC dry powder.

## DANGER

**Faulty safety devices of the fire protection system.**

Danger to life if the safety devices of the fire protection system do not work. This can cause severe injuries or death.

- Do not disconnect the fire protection system from the power supply overnight.
- Do not disassemble, put out of operation, or manipulate the safety devices.
- Do not remove safety instructions from the system.
- Do not block, hold open, or otherwise prevent the fire doors from closing.
- Inspect and do a service and maintenance of the fire protection system.
- Always follow the local applicable regulations or the regulations in a maintenance contract.
- Examine and maintain the condition of the fire protection system.

## DANGER

**Risk of personal injuries that can lead to death or material damages if the safety devices are faulty, manipulated, or put out of operation.**

- Make sure that all safety devices (breakouts, sensors, lock release, and so on) operate correctly.
- Do not disassemble, put out of operation, or manipulate the safety devices.
- Examine and perform service and maintenance of the safety devices.
- Always follow the local applicable regulations or the regulations in a maintenance contract.

## DANGER

**Moving system.**

If the system moves, careless behavior can lead to severe personal injuries to limbs or severance of limbs.

- Do not reach in when parts of the system move.
- Keep a distance when parts of the system move.
- Do not bump into or touch the system when it moves.
- Do not open or remove protective covers during operation.
- Do not permanently remove covers from the system.
- Only carry out inspection, service, maintenance, or cleaning when the system is stationary and the power is OFF.
- Danger points must be safeguarded up to a height of 2500 mm from the floor level.

## WARNING

**Maintenance and checks during operation.**

Risk of personal injuries if the system is in operation during service and maintenance.

- Make sure that the power is OFF and that the system is stationary before you do checks, repairs, service, maintenance, and cleaning.
- Before you start the work, make sure that there are no persons in the system or in the close area of the system.

## WARNING

**Incorrect use and/or installation.**

- Read and obey all instructions regarding safe use and/or assembly.
- Make sure that all connection points between the door system and the building are sufficiently strong, even and level.
- Only use Record approved components. Other components may have a negative effect on the safety of the system.


## WARNING

**Heavy parts.**

Lifting heavy parts can cause personal injuries.

- There must be at least two persons when lifting and handling heavy parts. Refer to local regulations.
- Use the tools provided for lifting.

## WARNING

**Unapproved persons without supervision using the system.**

Risk of personal injuries, malfunction, or material damage to the property if unapproved persons use the system.

- Infants and children under 8 years of age are not allowed to be within the opening area of the system without supervision of an adult.
- Children must not play, climb on, clean, or maintain the system or the fixed/remote controls.
- Children must not play with the system, the fixed controls, or the remote controls.
- Keep children away from the fixed controls and the remote controls.
- Persons with limited physical, sensory, or mental abilities can only use the system under supervision.
- Unapproved persons must have received and understood the instructions on how to use the system.

## WARNING

**Locked-in persons remaining in the building.**

Risk of personal injuries and material damage.

- Before the system is set to locked, make sure that the locked area is empty and that no persons are locked in.

## WARNING

**The system can open, close, or turn unexpectedly.**

Risk of material damage or personal injury because of the unforeseen opening or closing of the system.

- No persons can be present in the opening area of the system.
- Ensure that moving objects such as flags or parts of plants do not enter the detection range of the sensors.
- Do not make any settings on the control unit when the system is in use.
- Make sure that approved personnel immediately correct the errors.
- Remove objects from the opening area.
- Do not disassemble, put out of operation, or manipulate the safety devices.
- Do not dash through a closing system.

## CAUTION

**Incorrect settings.**

Incorrect settings can lead to malfunctions, material damage, or personal injuries.

- Do not disconnect the system from the power supply overnight.
- Make sure that only approved personnel adjust the settings.
- Do not disassemble, put out of operation, or manipulate the safety devices.
- Make sure that only approved personnel correct errors.
- Follow locally applicable regulations, or make sure to have a maintenance contract for service and maintenance.

## CAUTION

**Insufficient cleaning or care.**

Insufficient or inattentive cleaning or care of the system can lead to malfunctions, material damage or personal injuries.

- Examine the sensors regularly for dirt and clean them if necessary.
- Regularly remove dirt accumulations from the product and its close surroundings, for example the floor, in the floor rail, or under the floor mat.
- Keep the system free from moisture like water, snow and ice.
- Do not use aggressive or caustic cleaning agents.
- Use road salt or loose chippings only conditionally.
- Put the floor mat without folds and flush with the floor.
- Do not lean or attach equipment required for cleaning purposes, such as ladders or similar, to the system.

## CAUTION

**Imbalanced or damaged parts.**

Imbalance, wear, or damage to cables, springs, and fastening parts can cause material damages.

- Inspect the installation during the function- and safety check for imbalance and damaged parts.
- Do not use the equipment if repair or adjustment work needs to be carried out.

## CAUTION

**Product damage.**

If the product packages are not properly stored, this can lead to personal injuries, material damage or malfunction.

- Always store the packages indoors, in a dry condition at all times during transportation and reloading.
- The package has plastic tarpaulin around it and can be stored outdoors for a short time during installation, at the installation site.

## NOTICE

**Observe and comply with the country-specific regulations.**

**NOTICE**

**To prevent unwanted activations of the system, keep the area around the system clear. Moving objects such as flags or parts of plants must not be allowed to enter the detection range of the sensors.**

## 2.3 State of Technology

**NOTICE**

**Installation, commissioning, inspection, and maintenance must only be done by approved technicians. We recommend that you have a service agreement.**

**Record the work in the check list and give it to the customer for safe keeping.**

This system was developed using state-of-the-art technology and officially recognized technical safety regulations. The system, depending on its options and variants, comply with the requirements of the Machine Guidelines 2006/42/EG as well as EN 17352:2022.

Danger can occur if you do not use the system as intended.

## 2.4 Compliance Information

This product complies with European directives, regulations and standard EN 17352:2022.

The CE marking on the product indicates conformity with European directives and regulations together with the Declaration of conformity (DoC) or the Declaration of incorporation (DoI), accompanying the product.

## 2.5 Personal Protective Equipment

Use personal protective equipment to protect persons from adverse effects on health. Personnel must wear personal protective equipment during the various work activities on and with the system.

Depending on the place of work and the working environment, the protective equipment varies and must be adapted to the situation. In addition to the protective equipment for specific work, the work site can require other protective equipment (for example a harness).

In hygiene-protected areas, special or additional requirements of personal protective equipment can be necessary. These requirements must be thought of when choosing personal protective equipment. If there is any uncertainty regarding the choice of personal protective equipment, the safety officer must be consulted at the place of work.

## 2.6 Product Liability

To guarantee a reliable and trouble-free operation of the system, only use parts that the manufacturer recommends. The manufacturer declines any liability for damages as a result of unapproved modifications to the system or the use of parts that are not permitted.

Refer to regulations, the responsibility of the owner or caretaker of the equipment are as follows:

- That the equipment operates correctly, so that it gives sufficient protection in regard to safety and health.
- That someone with documented competence in the equipment and in applicable regulations operates and regularly maintains, inspects, and services the equipment.
- That the provided Service log book and Site acceptance test and risk assessment are kept available for maintenance and service records.
- That the inspection covers the emergency opening function (when applicable).
- That the closing force is appropriate for the system size on fire-approved systems (when applicable).

## 2.7 Warranty

Record warrants its products to be free from defects in material and workmanship under intended use and service for a warranty time of 24 months, beginning at time of delivery. This warranty extends only to the original buyer of the equipment.

Record warrants that the software operates substantially in accordance with its functional descriptions and that it has been recorded on non-defective media.

The Record warranty does not apply to:

- That the software is error-free or operates without interruption.
- General wear and tear on the system.
- Fuses, disposable batteries and glass damage.
- System deviations caused by installers other than Record.
- System that has been altered or damaged by vandalism or misuse.
- System that has been additionally equipped with non-Record original branded parts and/or spare parts.
- Unnecessary visits due to poor client communication (system working when our technician arrives, reset, power discontinuation).
- Adjustments (closing and opening speed and also sensor detection field) due to customer requests (excludes operational adjustments thought to create a hazard).
- Water damage.
- Adverse weather conditions.
- Any damage caused, directly or indirectly, by a circumstance beyond the control of the applicable company within Record. Damages can be for example industrial dispute, fire, natural disaster, war, extensive military mobilization, insurrection, requisition, seizure, embargo, restrictions in the use of power, and defects or delays in deliveries by sub-contractors caused by any such circumstances.
- Non-compliance with the manufacturers care and the maintenance recommendations may void the warranty.
- Record approved resellers must extend this warranty to the end-users only, but have no authority to extend a greater or different warranty on behalf of Record.

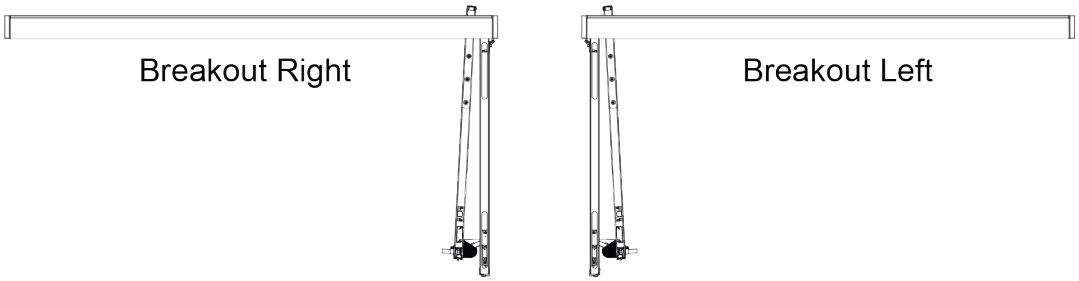
Failure to observe information in this manual may result in personal injury or damage to equipment.

- Do not use equipment if repair or adjustment is necessary.
- The door system can be used by children only when supervised by a person responsible for their safety.
- This system can be used by persons with impaired physical, sensory or mental capacity if they have been instructed by a person in charge of their safety concerning safe use and possible hazards involved.
- Cleaning and user maintenance shall not be made by children.
- Do not let anyone climb on or play with door or fixed/remote controls.
- Ensure that wall is properly reinforced at installation points.
- Ensure that installation surface is even, particularly when attaching to block or concrete surfaces – level and shim as necessary.
- In all instances where work is being done, area is to be secured from pedestrian traffic to prevent injury.

# 3 Introduction

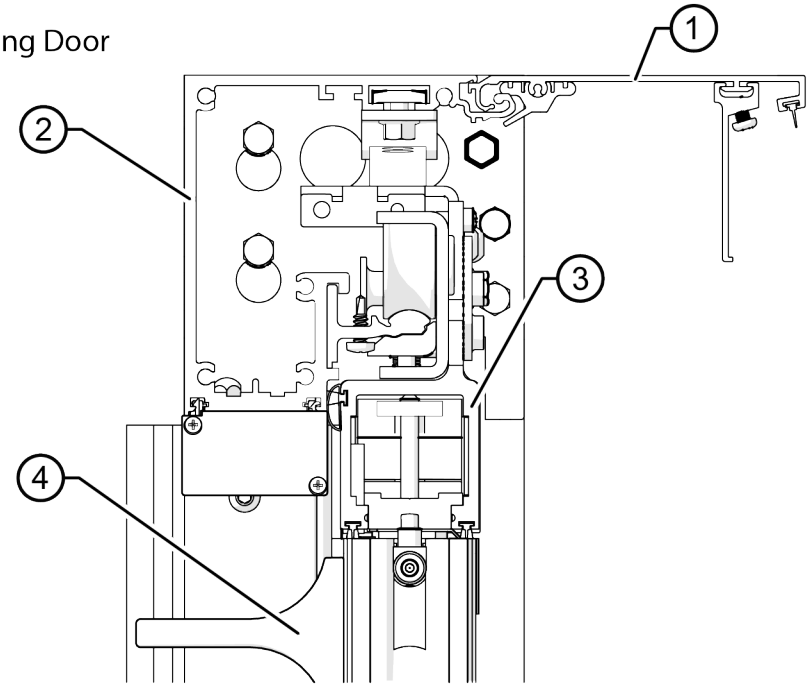
This manual contains instructions for the installation, maintenance and service of this manual sliding door package.

The Record 5950 sliding door system is designed for an overhead-concealed installation between two vertical jambs. This package includes an unequal panel, and a single slide (2-panel, left- or right-handed) with breakout capabilities of both panels. Breakout can only happen in the fully open position.

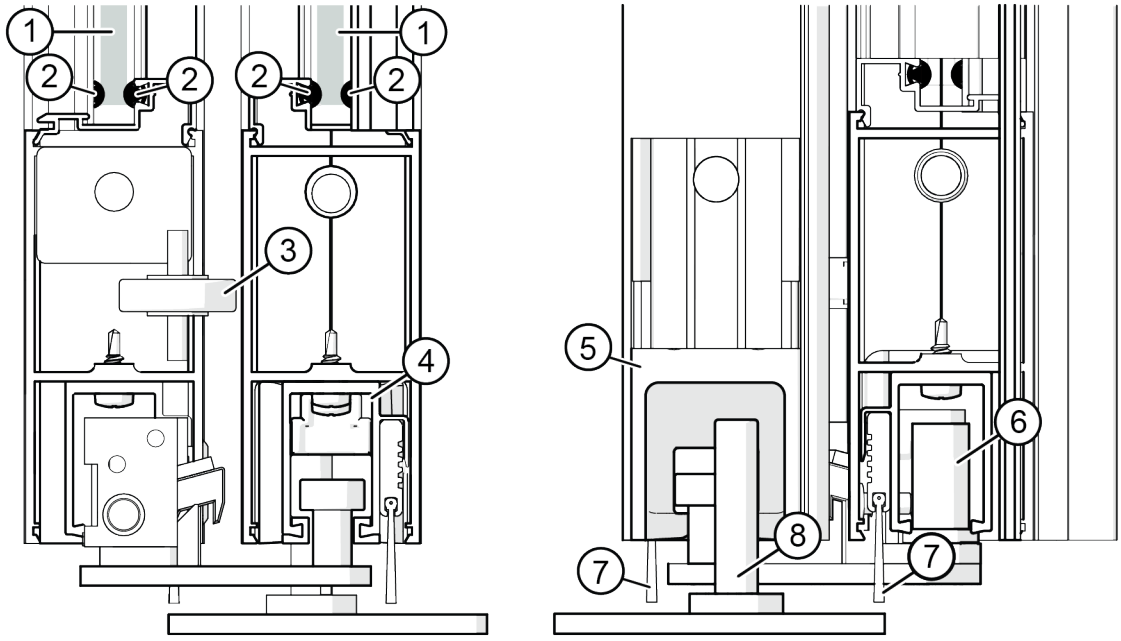


# 4 Parts Identification

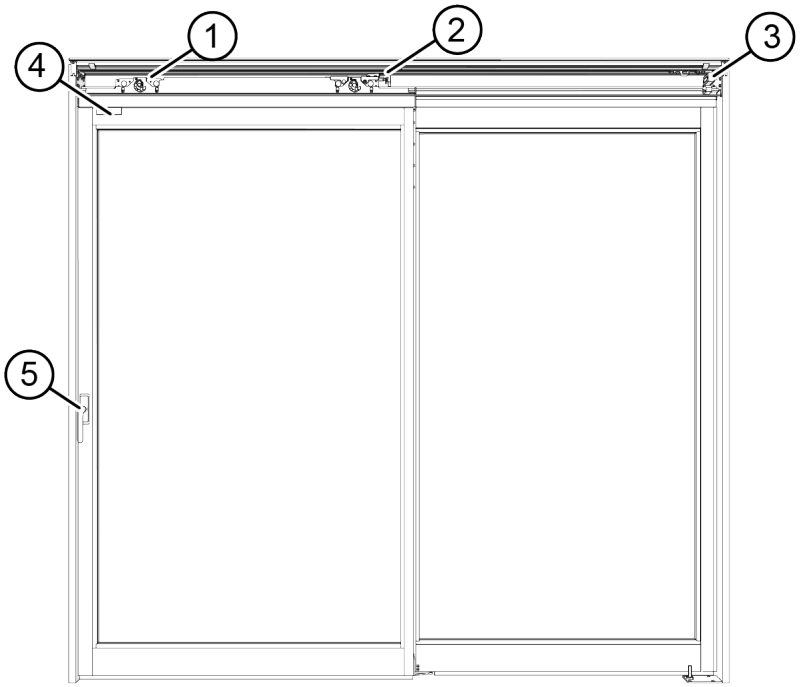
Top of Sliding Door



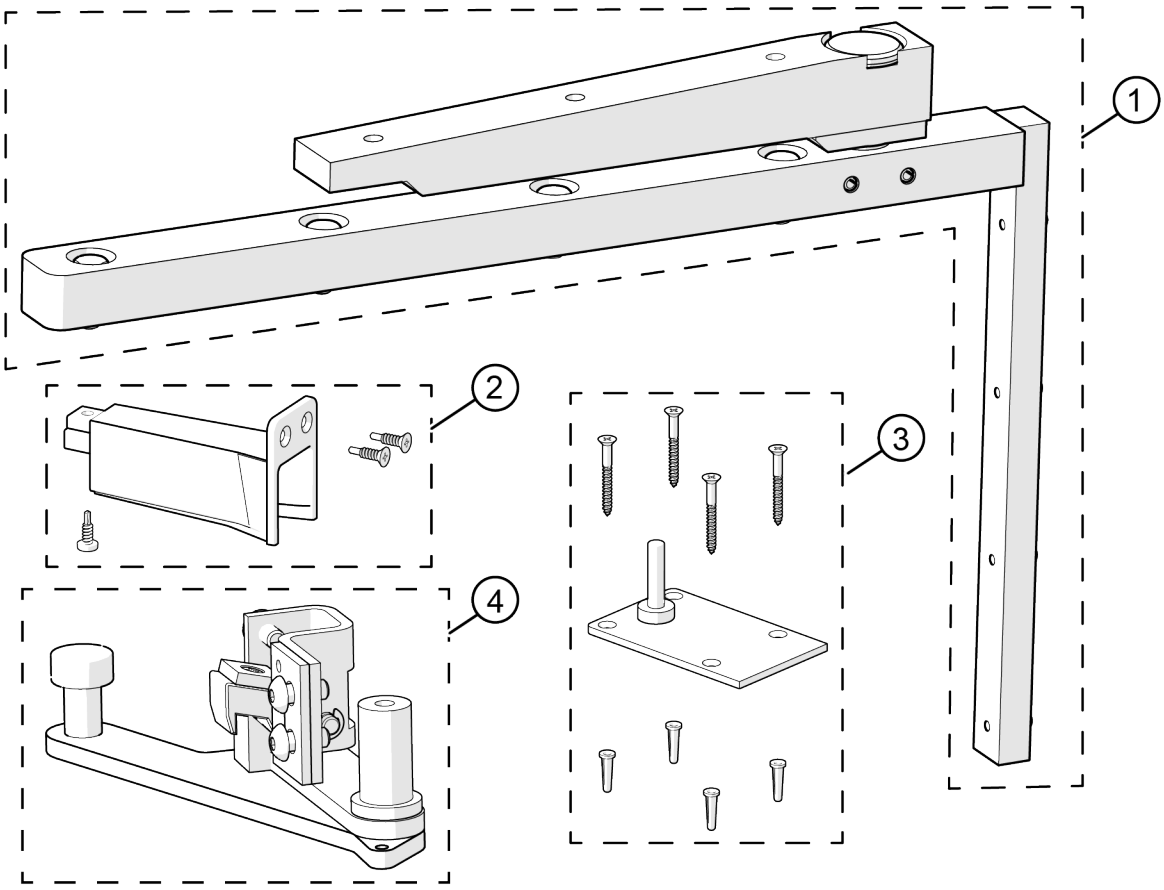

| | Description | Part Number |
|---|---|---|
| 1 | Cover | 1020724 |
| 2 | ICU Beam | 1013555 |
| 3 | ICU Carrier | 1014256 |
| 4 | Breakout Cam | 1016400 |




| | Description | Part Number |
|---|---|---|
| 1 | Glass/Infill | N/A |
| 2 | Glazing Bead | US20-0213 |
| 3 | Spacer Wheel | 1013787 |
| 4 | Guide Track | 1015888 |
| 5 | Max CDO Door Guide Block Kit | 203-1551575 |
| 6 | Bottom Pivot, LH Medium | 1020243 |
| 6B | Bottom Pivot, RH Medium | 1020244 |
| 7 | Sweep (Standard) | 50-20-215 |
| 7B | Sweep (Smoke rated) | US20-1627-02 |
| 8 | Pivot Plate | 203-1543260 |

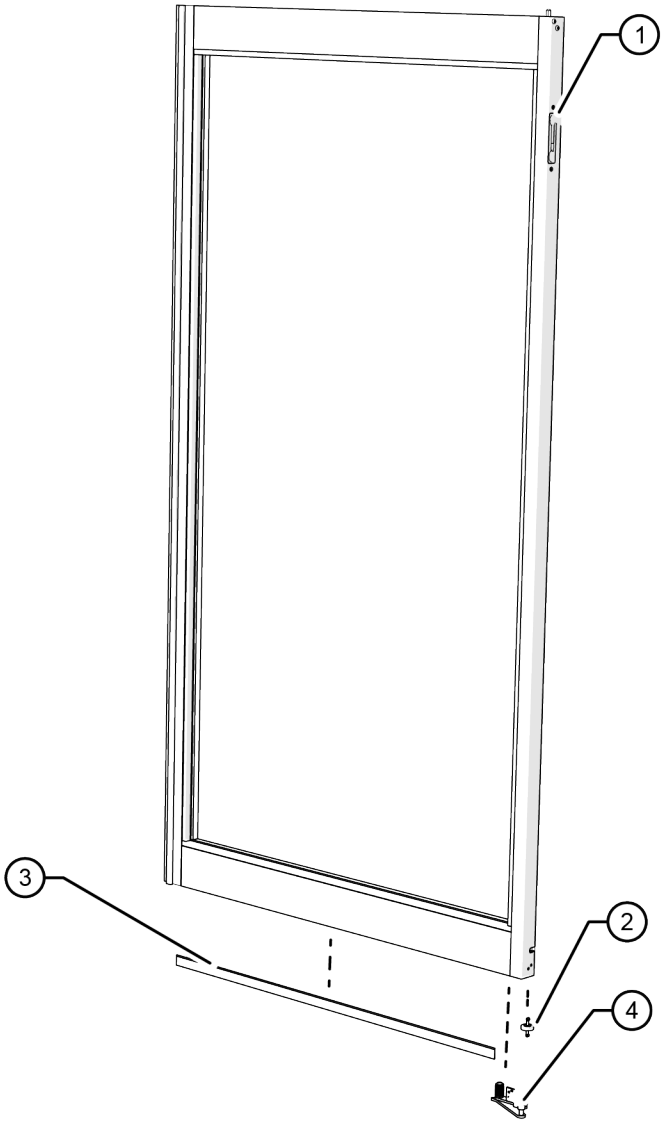



| | Description | Part Number |
|---|---|---|
| 1 | Wheel Bracket | 1014215 |
| 2 | Magnetic Hold Open Kit (Door) | 1014165 |
| 3 | Magnetic Hold Open Kit (Header) | 1014165 |
| 4 | Active Panel Magnetic Catch | 1013812 |
| 5A | Lever Handle Kit, Clear | 1023604 |
| 5B | Lever Handle Kit, DB | 1024175 |

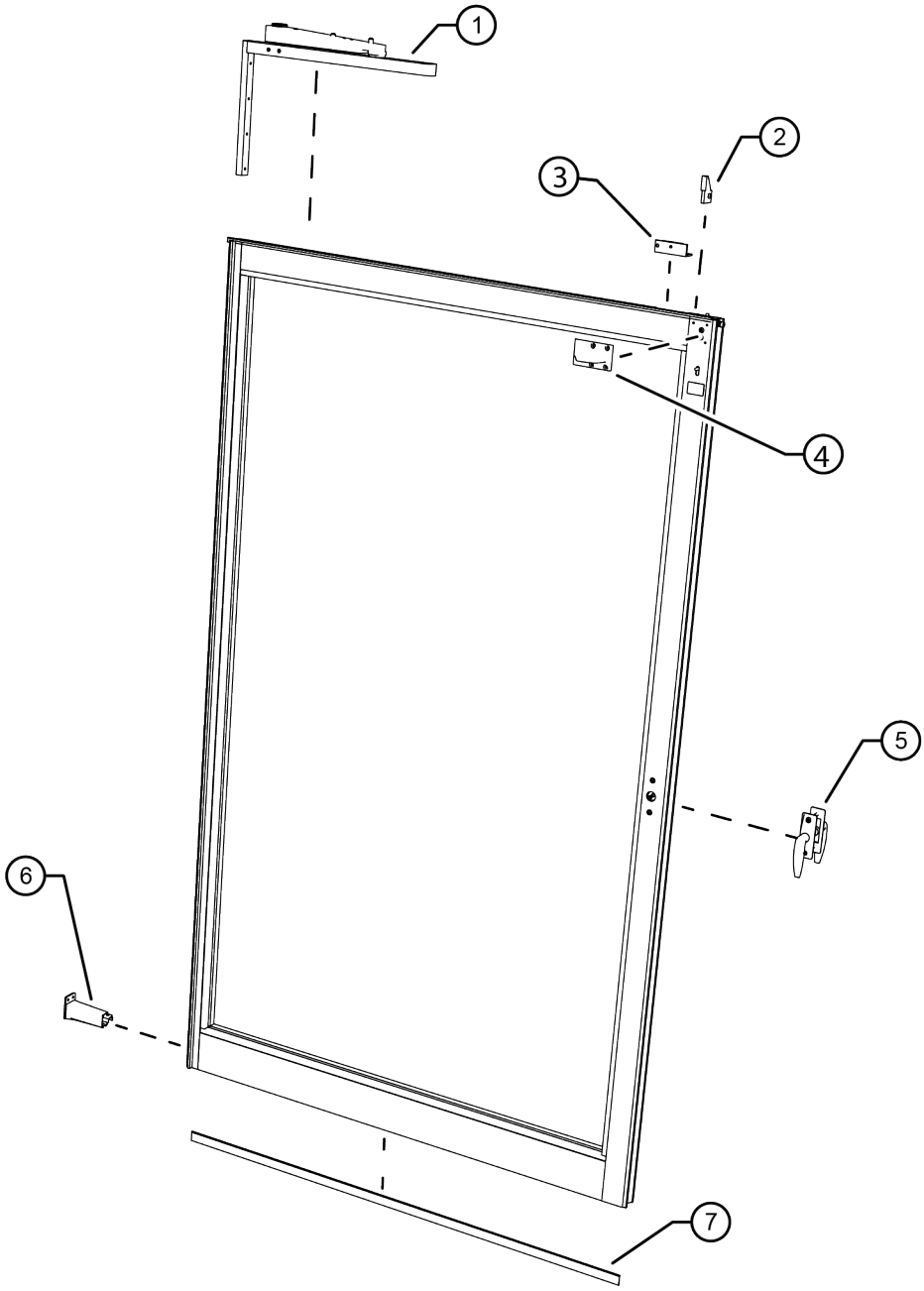



| | Description | Part Number |
|---|---|---|
| 1 | Max CDO PSA Arm | 203-1541466 |
| 2 | Max CDO Door Guide Block Kit | 203-1551575 |
| 3 | Max CDO Pivot Plate Kit | 203-1543260 |
| 4A | Bottom Pivot, LH Medium | 1020243 |
| 4B | Bottom Pivot, RH Medium | 1020244 |

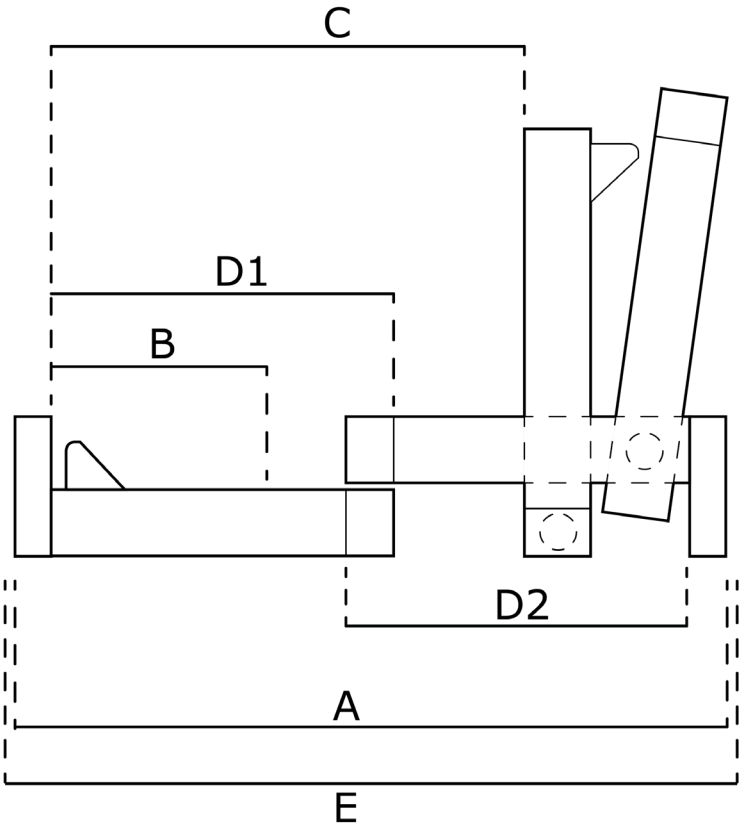
## Sidelite Panel




| | Description | Part Number |
|---|---|---|
| 1 | Flushbolt | 50-04-137 |
| 2 | Spacer Wheel Kit | 1013787 |
| 3A | Sweep | 50-20-215 |
| 3B | Smoke Sweep | US20-1627-02 |
| 4A | Bottom Pivot, LH Medium | 1020243 |
| 4B | Bottom Pivot, RH Medium | 1020244 |




| | Description | Part Number |
|---|---|---|
| 1 | Max CDO PSA Arm | 203-1541466 |
| 2 | Anti-Breakout Plate | 1023603 |
| 3 | Magnetic Catch, AL Door Portion | 1013812 |
| 4 | Kit, Breakout Cam | 1016400 |
| 5A | Lever Handle Kit, Clear | 1023604 |
| 5B | Lever Handle Kit, DB | 1024175 |
| 6 | Max CDO Door Guide Block Kit | 203-1551575 |
| 7A | Sweep | 50-20-215 |
| 7B | Smoke Sweep | US20-1627-02 |




| Model No | Overall Frame Width (A) | Clear Door Opening Width (B) | Breakout Opening Width (C) | Active Leaf Width (D1) | Sidelite Width (D2) | Rough Opening Width (E) |
|---|---|---|---|---|---|---|
| 5954-8 | 96” (2438.4) | 44 ½” (1130.3) | 89” (2260.6) | 49” (1244.6) | 45 ⅝” (1158.9) | 96 ½” (2451.1) |
| 5954-8-6 | 102” (2590.8) | 47 ½” (1206.5) | 95” (2413.0) | 52” (1320.8) | 48 ⅝” (1235.1) | 102 ½” (2603.5) |
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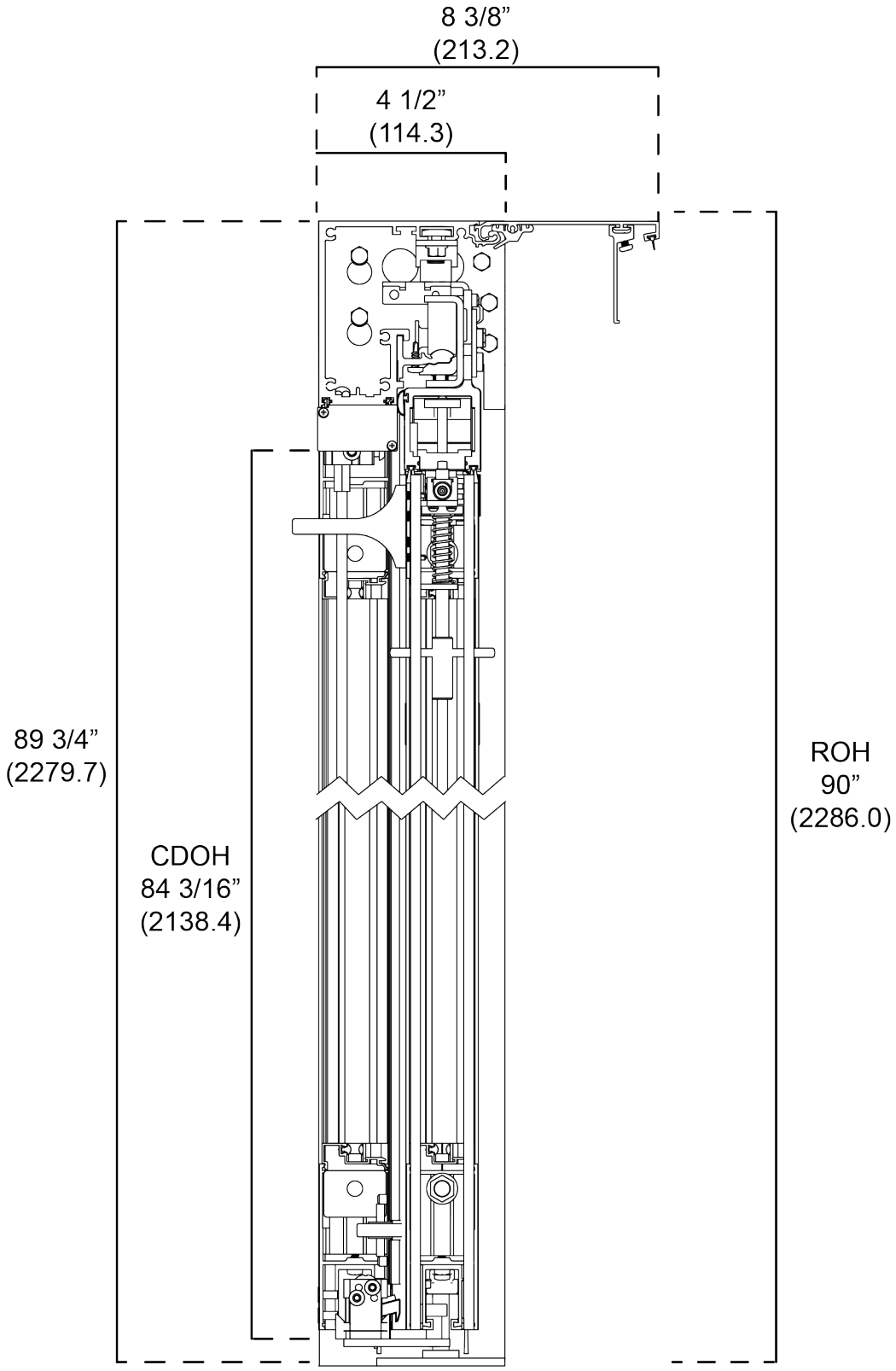

8 3/8”
(213.2)
4 1/2”
(114.3)
89 3/4”
(2279.7)
CDOH
84 3/16”
(2138.4)
ROH
90”
(2286.0)

# 5 Installation Requirements

## 5.1 Fastener Requirements

The following specifications are the manufacturer's minimum requirements. However, always consult local building codes.

**NOTICE**

**Always use the appropriate fastener for the wall material.**

| Wall Material | Minimum Anchor Embedment |
|---|---|
| Steel | 3/16" (5mm) |
| Aluminum | 1/4" (6mm) |
| Reinforced Concrete | 1 1/2" (38 mm) from the underside |
| Wood | 1 1/2" (38 mm) |
| Brick | Expansion-shell bolt, minimum (1/4" x 3 1/2", min. 2" (50 mm) from the underside |

## 5.2 Tools Required (minimum)

- Level (4-foot) or 2-axis laser level
- Tape rule
- Straight edge
- Power drill and set of drill bits, unibit, hammer drill
- Hex key set 6, 5, 4, 3, and 2.5 mm
- #1 Phillips screwdriver
- Screwdriver Torx T10, T20, T30
- Flat blade screwdriver (small, medium, large)
- Chalk line
- #2 Phillips screwdriver
- Center punch
- String
- Plumb bob
- Silicone sealant
- Pencil
- 10 mm nut driver and wrench
- Allen wrench set
- Rivet Tool

# 6 Frame Assembly and Installation

## 6.1 Facility Inspection

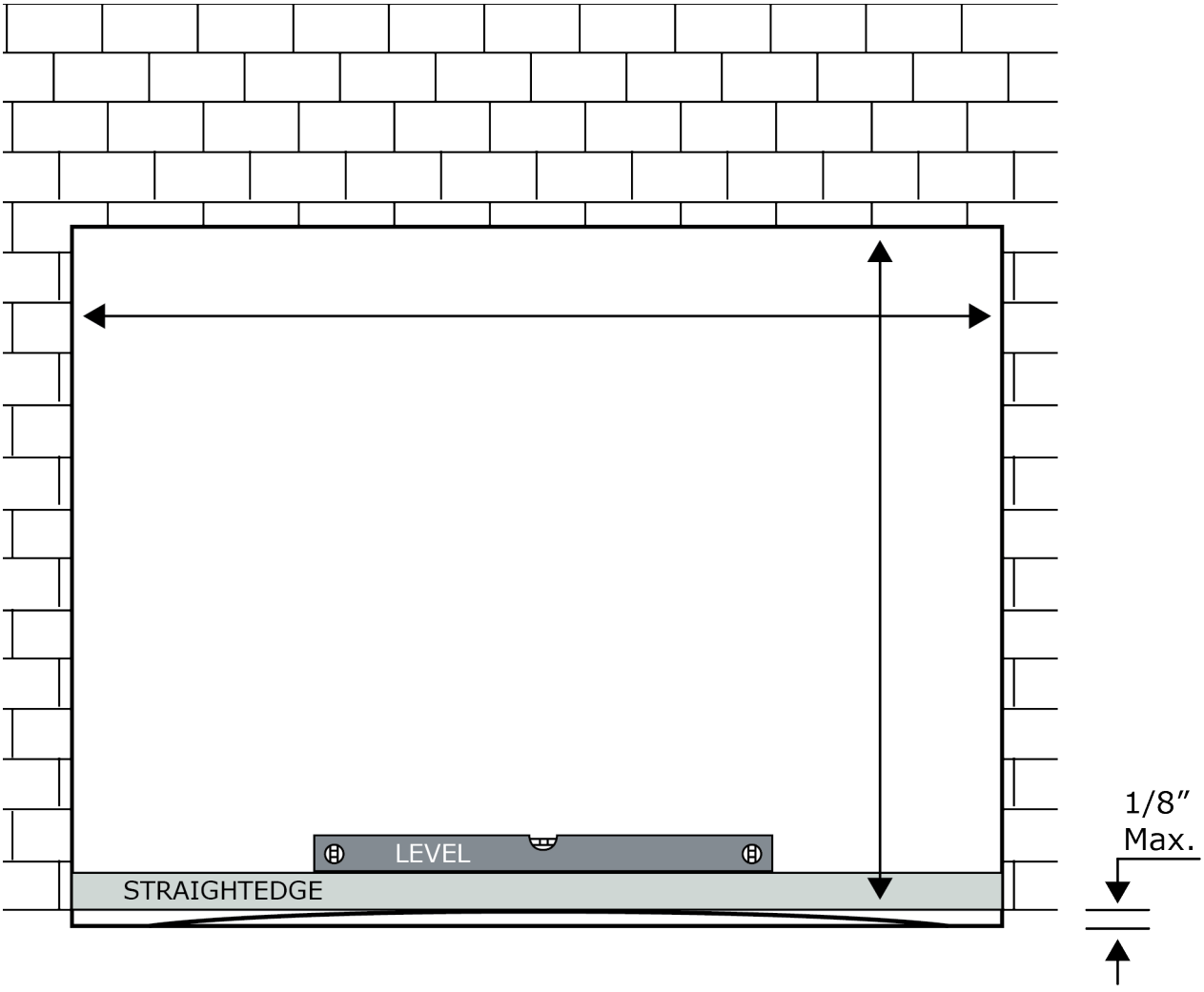
Verify that there is sufficient material to adequately support and attach the header using the factory pre-drilled holes.

The rough opening must be plum and square. The finished floor must not vary by more than ⅛” from the highest to the lowest point. If necessary, have the floor leveled before attempting to install the sliding door system.

Verify that the floor is level within the travel and path of the doors in breakout mode. The doors must not encounter any obstruction when broken out. Ideally, the floor should be level or slope away from the wall on the breakout side of the door.

Verify that the rough opening width is ½” wider than the overall frame width of the sliding door system. Verify that the height is ¼” higher than the overall frame height.

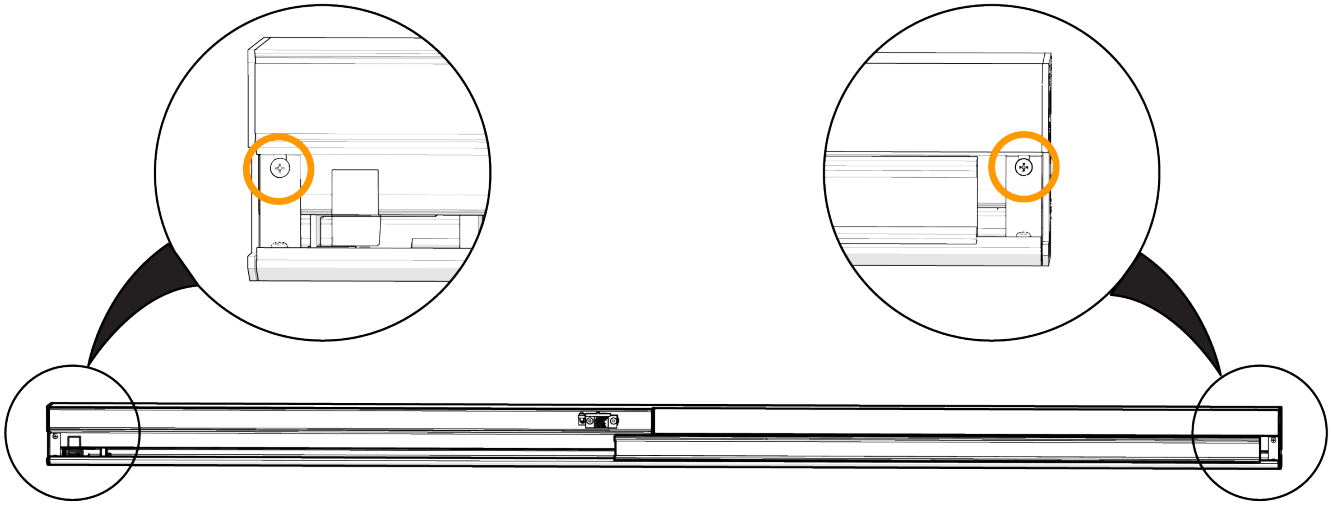
Example: For a door system with a frame height of 89 ¾”, a rough opening height (ROH) of 90” measured from the highest point of the floor in the opening between the jambs is required.



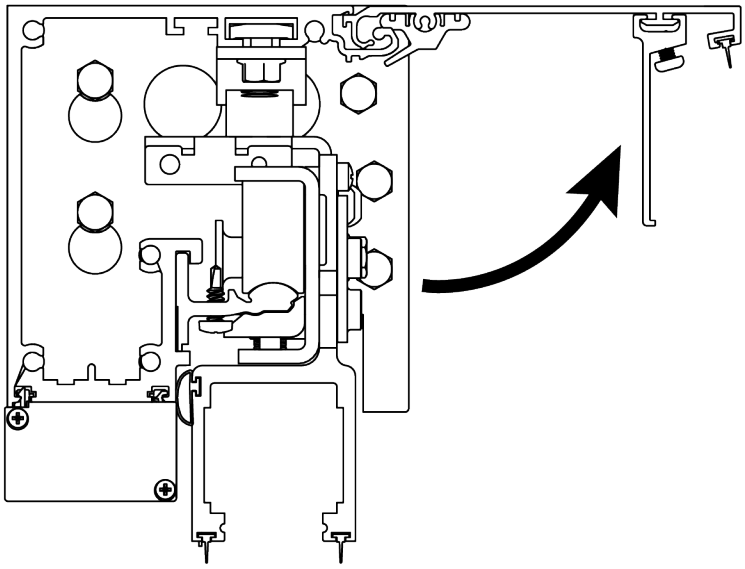
## 6.2 Opening and Closing the Cover

Unlock the cover to gain access into the header. The locks are located at each end of the cover.

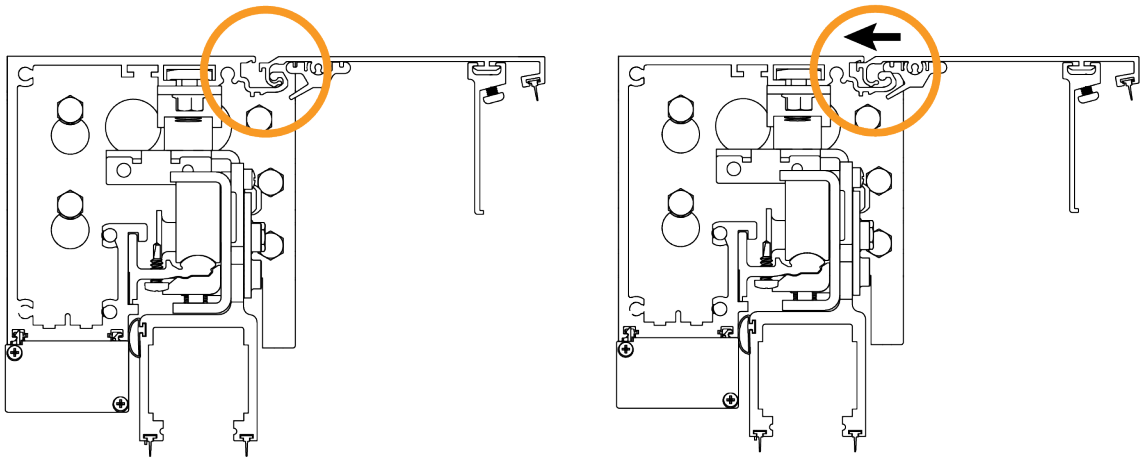
1. Loosen both screws from underneath to unlock the header cover.



2. From the center of the cover, rotate the cover 90 degrees.



3. Push the cover inward toward the header to hold it into place.



**CAUTION**

**Bumping or jarring the cover while it is open may cause it to suddenly close.**

4. To close the header cover, pull outward and rotate it back into position.

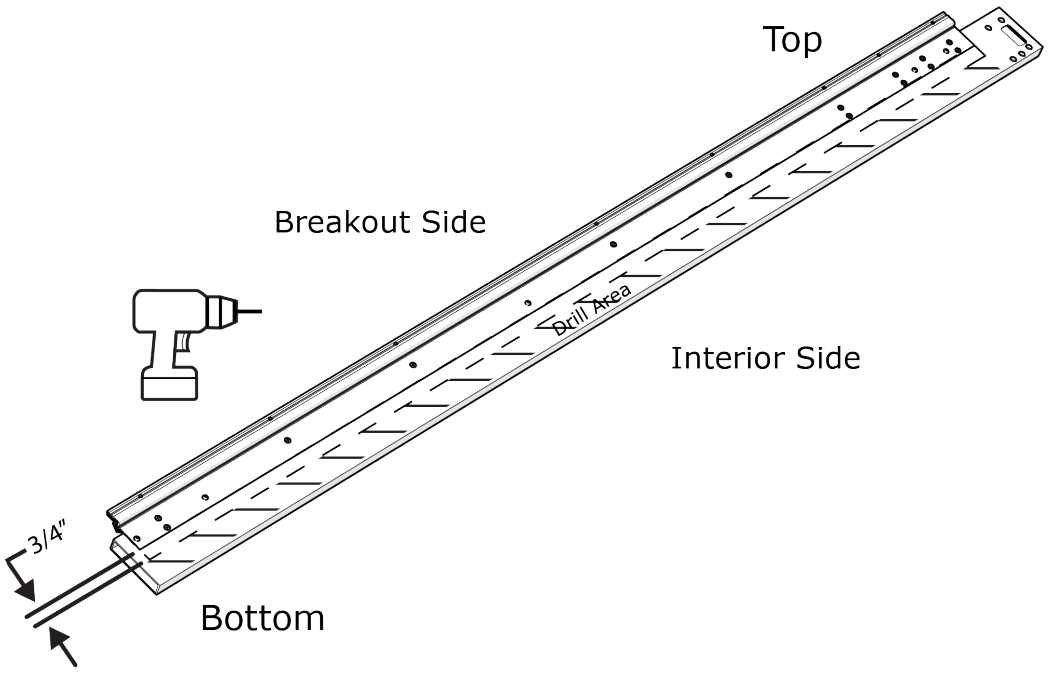
5. Tighten the screws to secure the cover.

## 6.3 Standard Installation

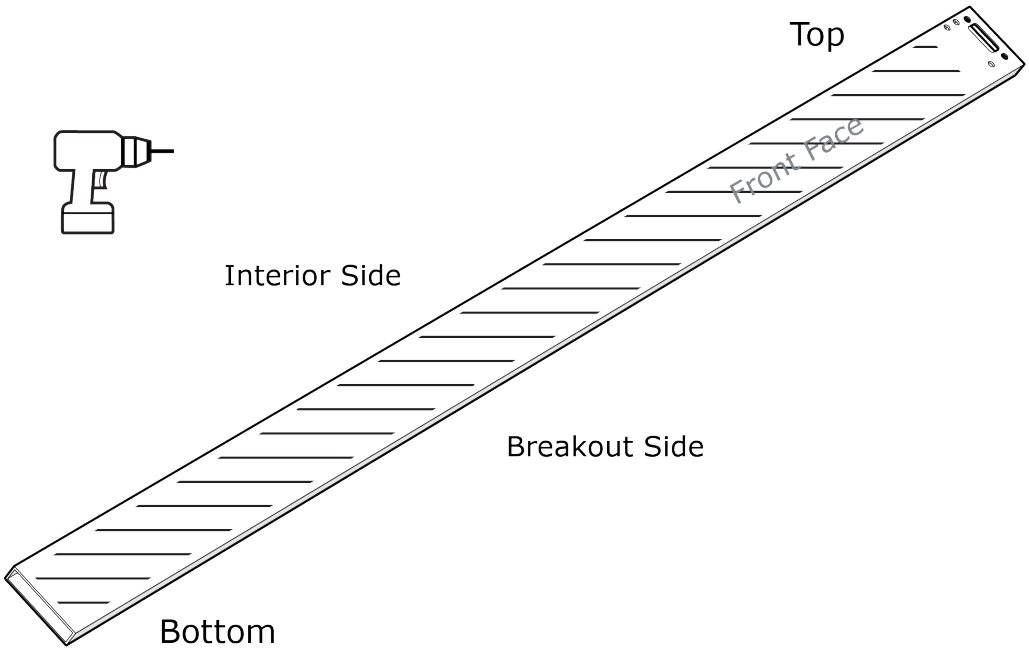
1. Measure ³/₄” from the edge of the hinge flange and drill three (3) evenly-spaced ¹/₄” holes through the front and back faces of the left-hand jamb. Then, enlarge the holes on the front face of the jamb to ¹/₂” to account for the beauty cap.

**CAUTION**

**Drilling the holes closer to the flange will prevent the beauty cap from being fully seated into the opening.**




2. Drill three (3) evenly-spaced ¹/₄” holes through the front and back faces of the right-hand jamb. Then enlarge the front face holes to ¹/₂” to account for the beauty cap.



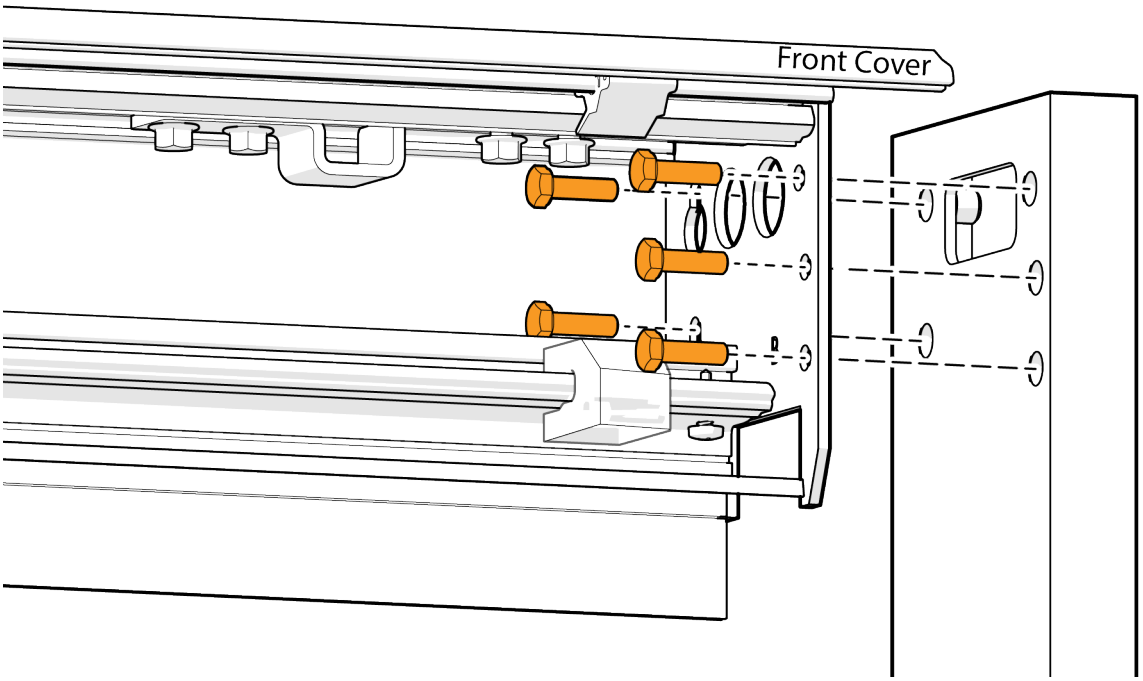
3. Fasten the left-hand jamb to the header from inside the front cover.

## NOTICE

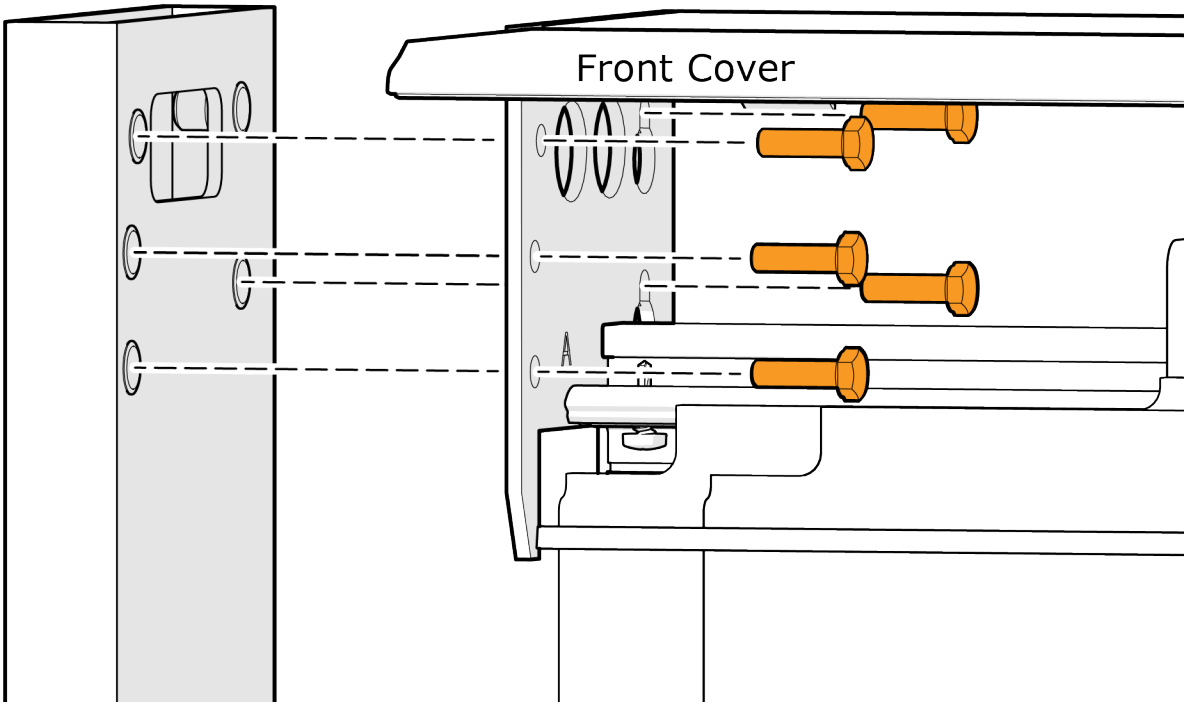
**Use five (5) M6 x 20 HCS bolts.**

## NOTICE

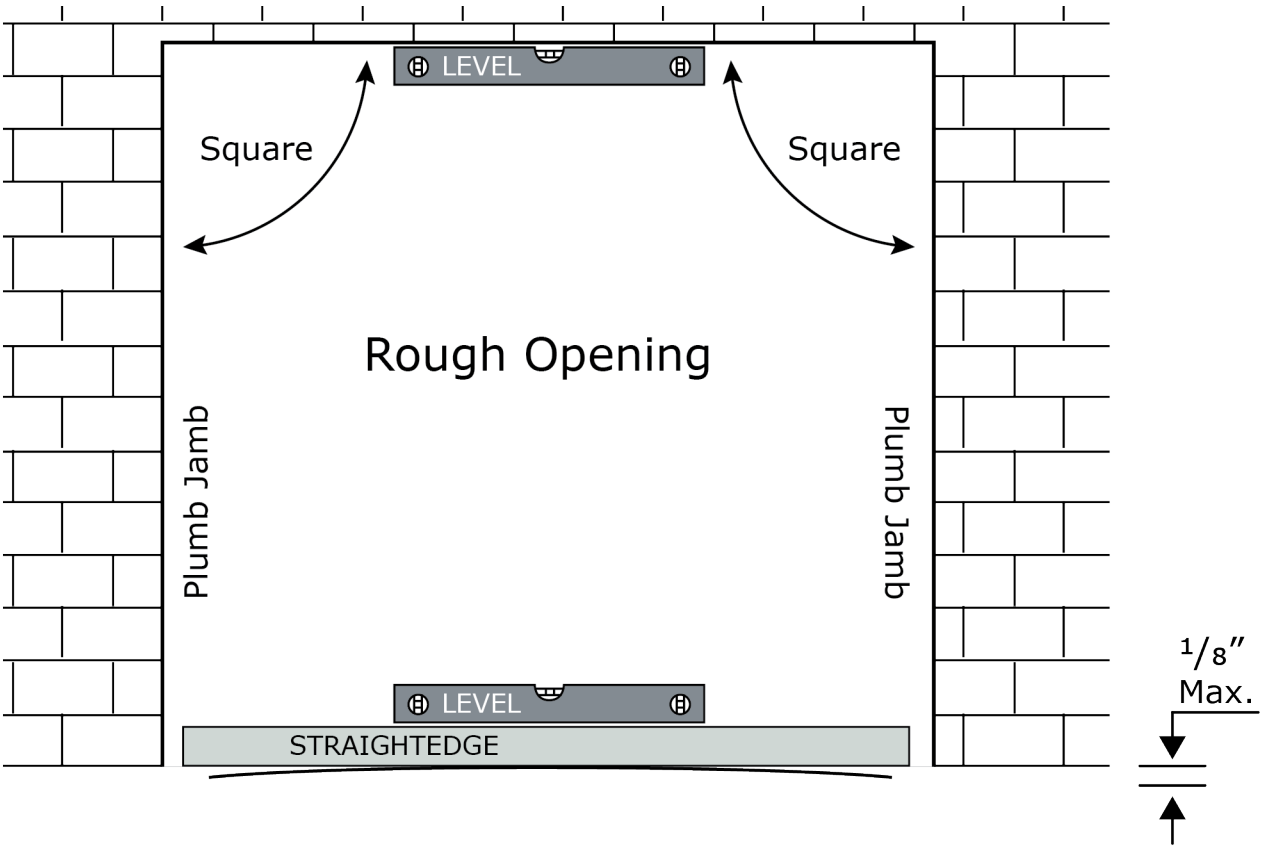
**The jamb must be flush and square with the top and the back of the header.**



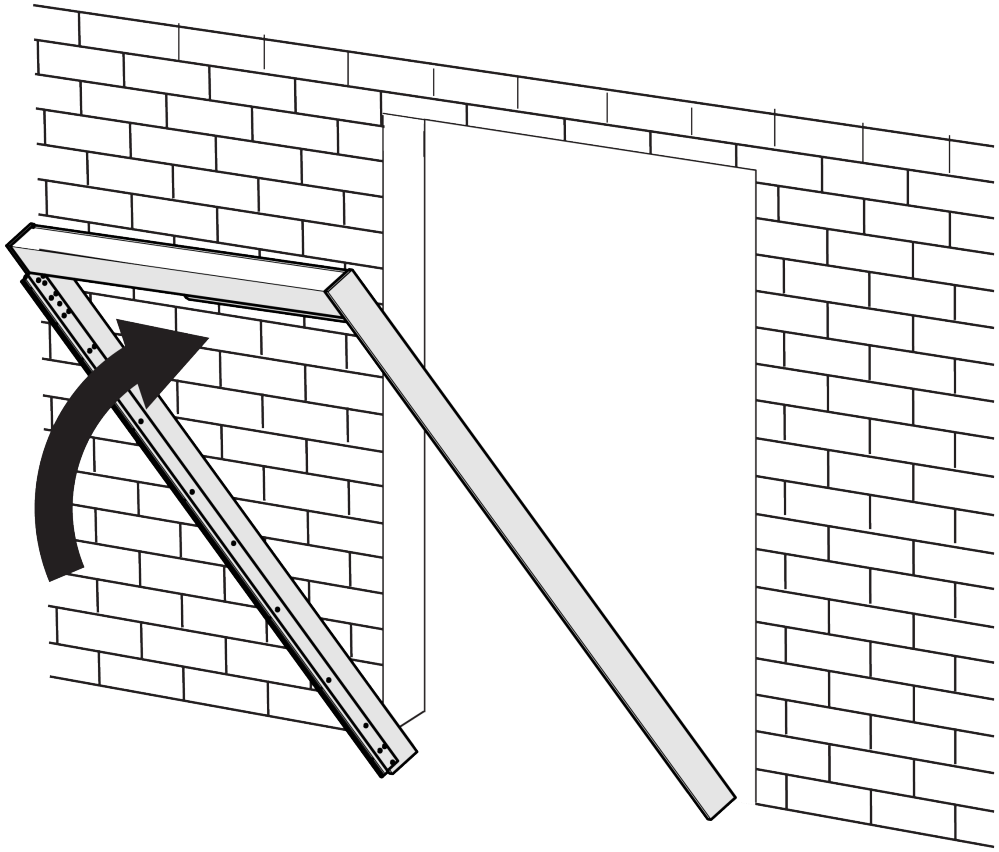

4. Fasten the right-hand jamb to the header from inside the front cover.



5. Check the rough opening for plumb, level and square.




6. Raise the assembly into the rough opening.



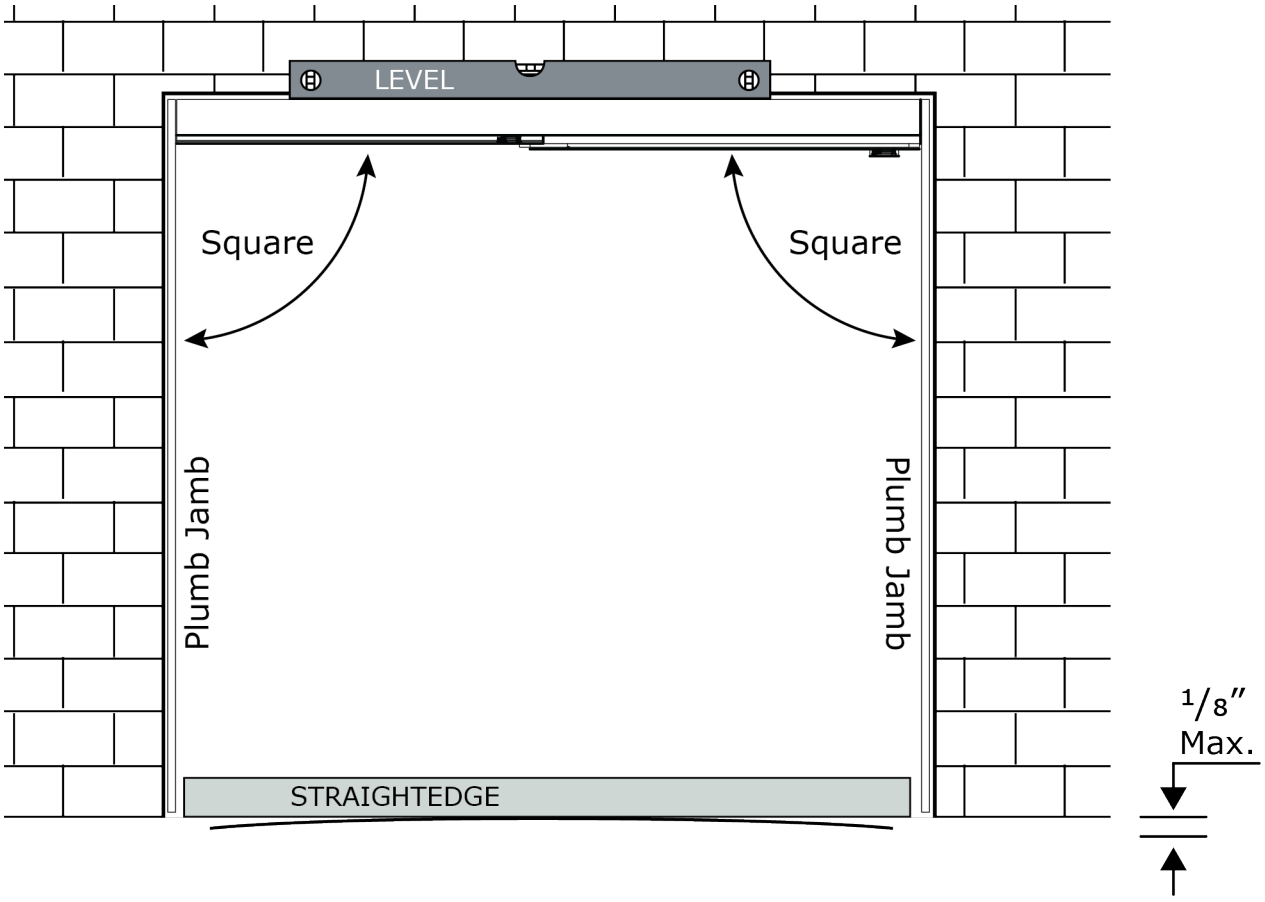
7. Check the header and jambs for plumb, level and square. Use shims if necessary.

## CAUTION

**The header and jambs must be installed plumb, square, and level to ensure proper door operation.**

## NOTICE

**Use shims if necessary to correct for an uneven floor condition.**



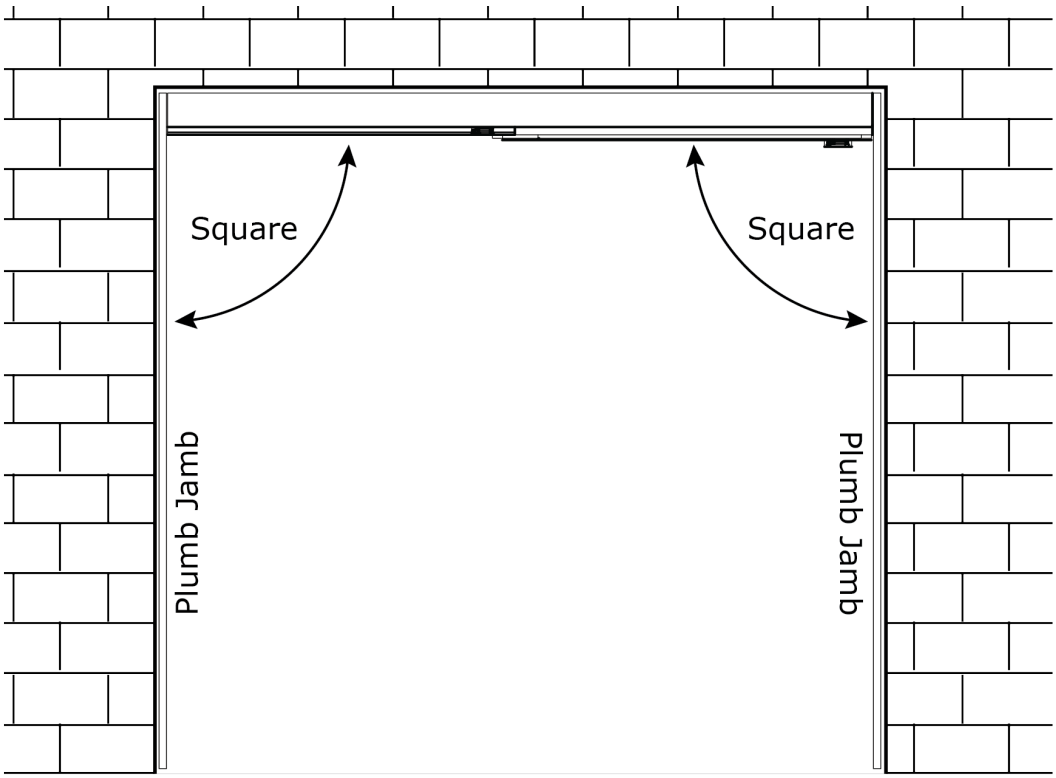

8. Temporarily fasten or clamp the header and jambs into position.

## NOTICE

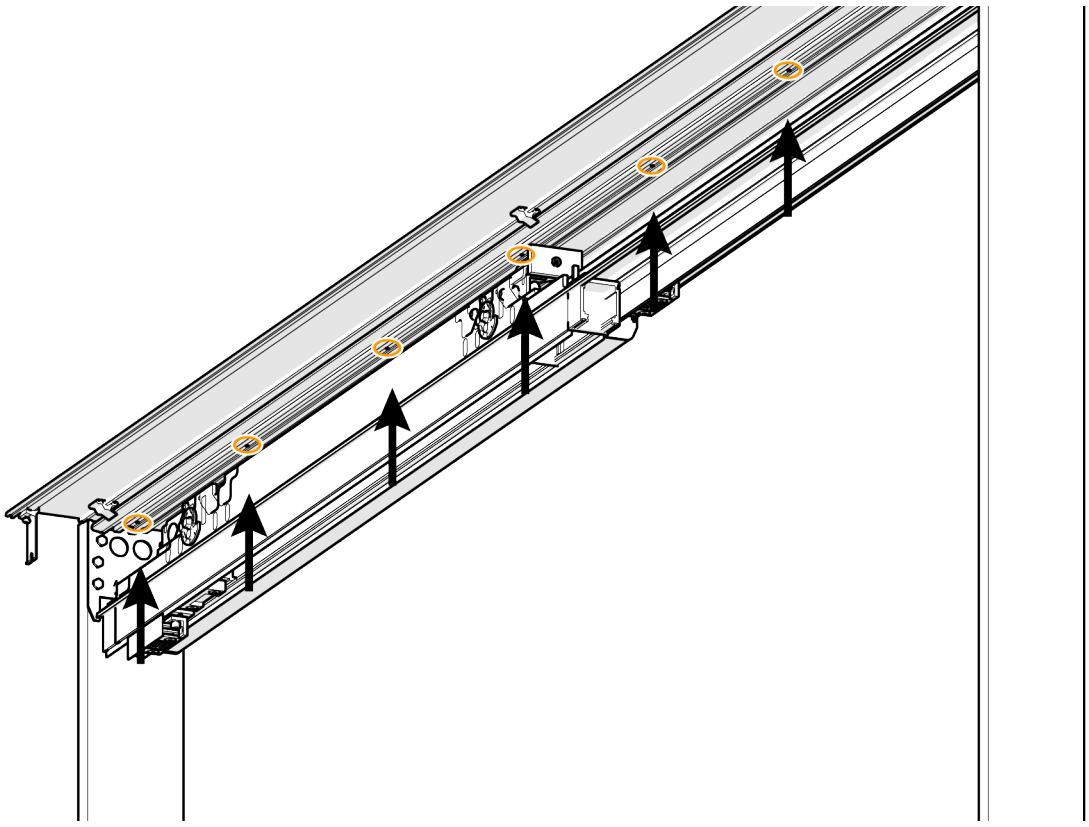
**ICU headers are not self-supporting. They require overhead support for proper operation. Overhead support holes are pre-drilled in the header to aid in installation.**

9. Install the anchors through the jambs and then install the beauty caps to cover the holes.

10. Re-check for plumb and square and make adjustments as needed.




11. Starting at the center of the header, and working outward towards each jamb, partially install anchors through each pre-drilled installation holes.



12. Re-check the header for level and then tighten the header anchors using shims if required.

## NOTICE

**It may be necessary to leave a slight gap between the rough opening and the header so that the anchor can draw the header up to a level condition.**

## 6.4 Door Installation Process

The doors will need to be unpacked and then hardware will need to be assembled to the doors. All hardware items include the required fasteners.

**NOTICE**

**It is important to remove all packing material from the door package to prevent interference with the operation of the door.**

**Remove and dispose of all packing and scrap materials in accordance with state and local regulations.**

If optional sweeps are included in the packaging, they will need to be trimmed to the correct length and then inserted into the sweep holder prior to installation.

For door packages that include optional smoke rated seals, you will find the seals already installed on the door at an extended length. This excess will need to be trimmed flush at the end of the door stile.

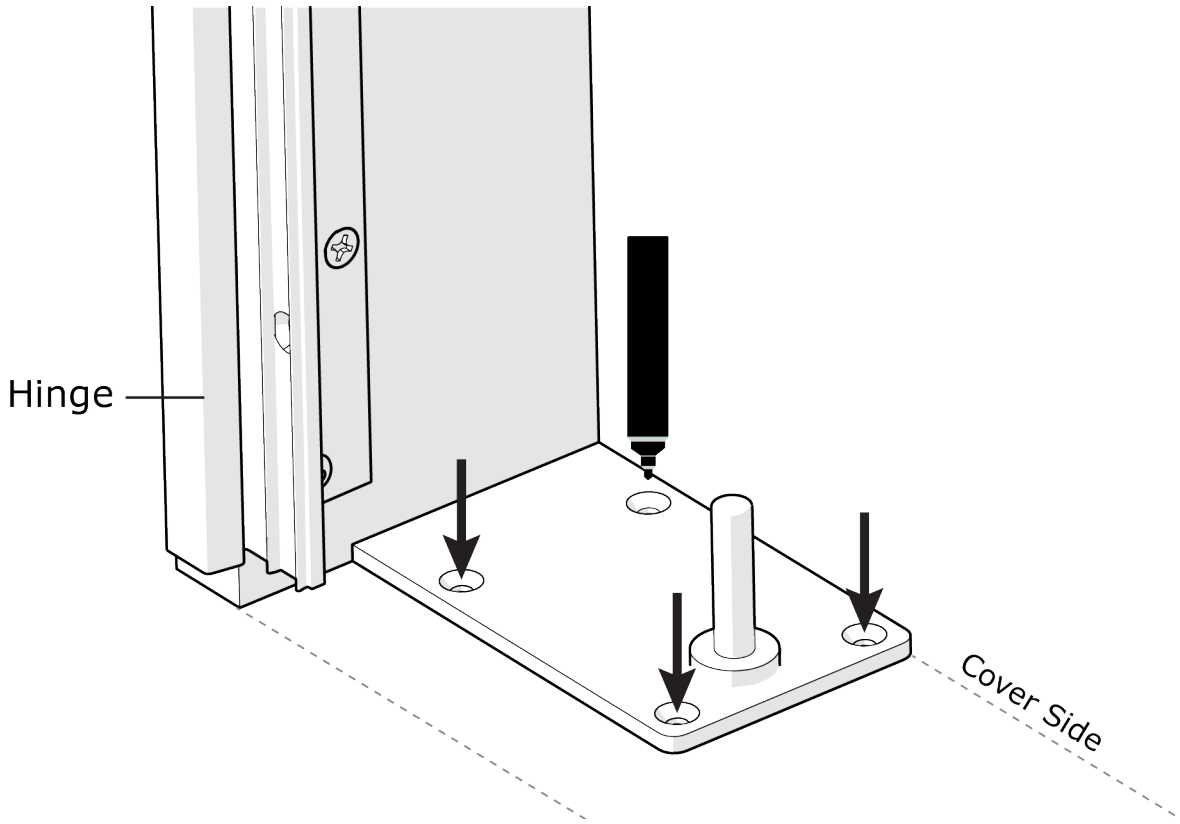
### 6.4.1 Installing the Pivot Plate

1. Place the pivot plate on the floor against the base of the left-hand jamb (jamb with the hinge). The plate should be aligned with the edge of the cover side of the jamb.

**NOTICE**

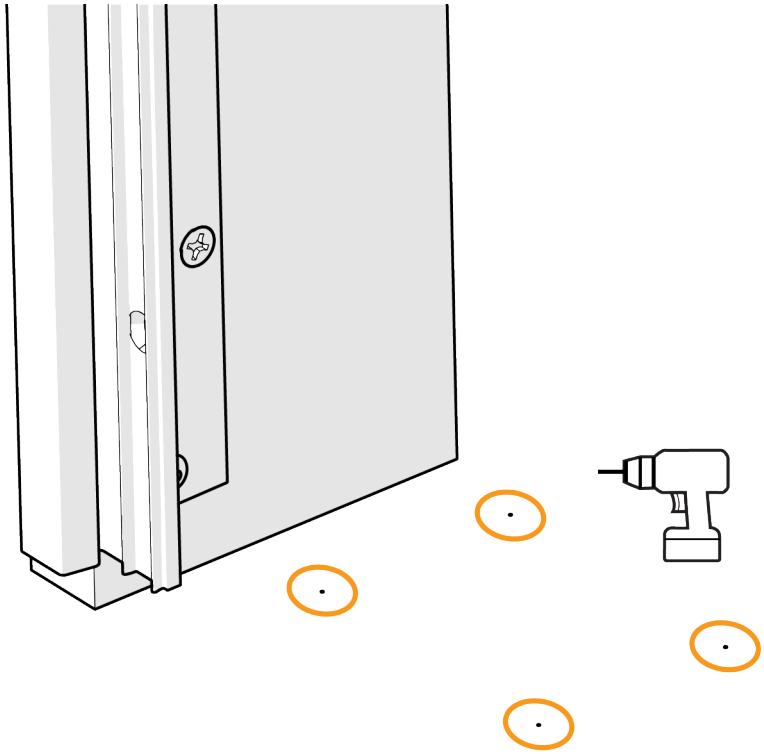
**Make sure that the pivot plate is level. Use shims if necessary.**

2. Mark the floor through the holes in the plate.

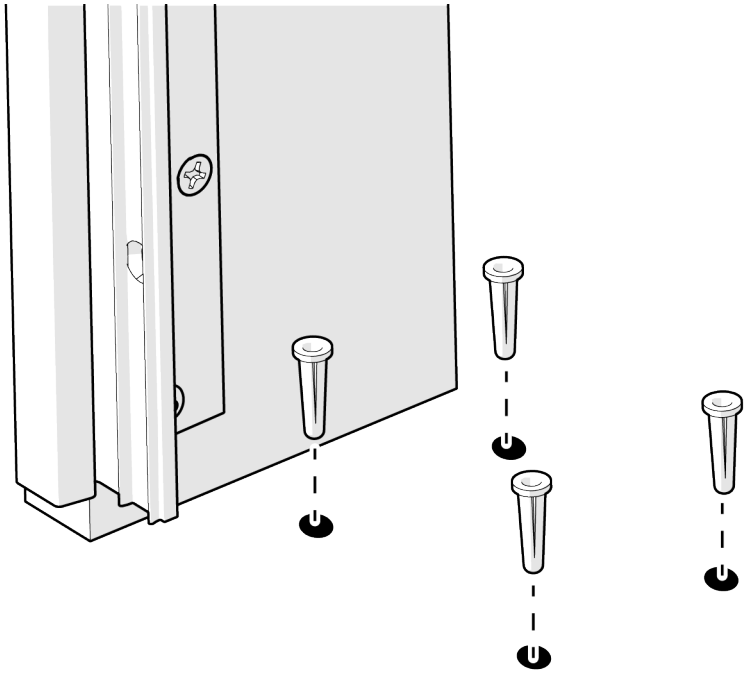


3. Remove the pivot plate from the floor exposing the four (4) marks that were previously made.

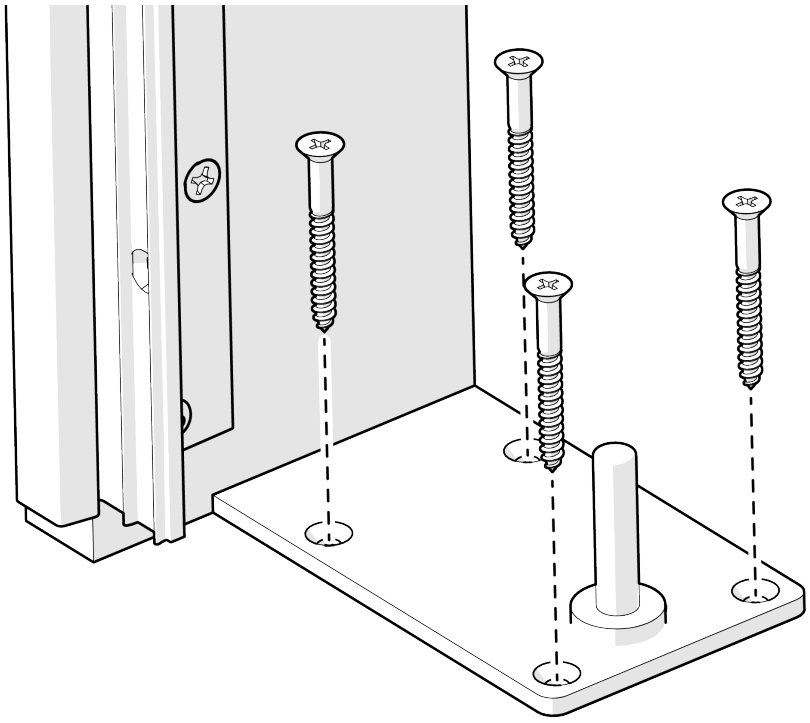
4. Drill 1/4” holes through the marks on the floor.



5. Insert the appropriate anchors into the floor.



6. Fasten the floor plate to the floor with the appropriate fasteners.



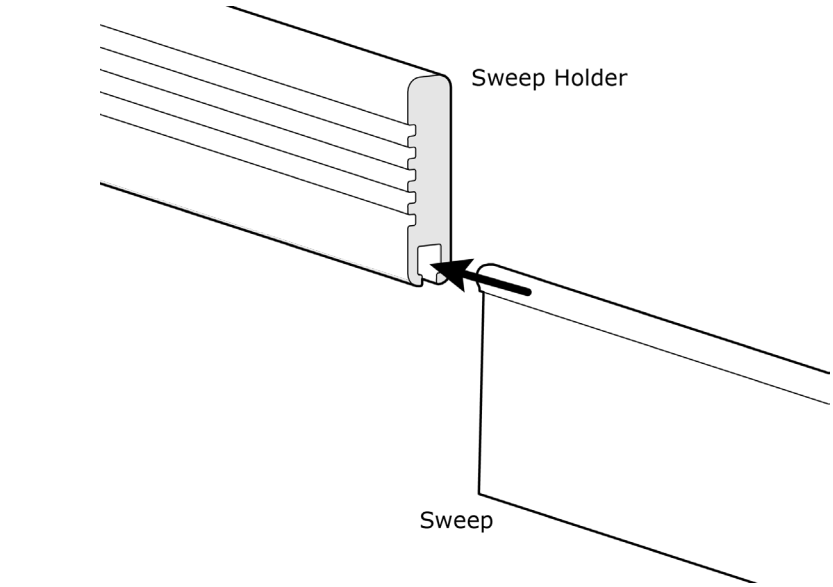
## 6.4.2 Sidelite and Active Leaf Panel Assembly and Installation

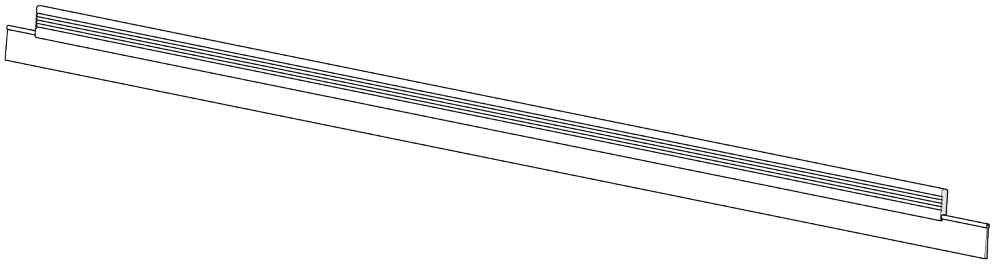
1. If sweeps are included in the package, trim them to the length required for each panel.

**NOTICE**

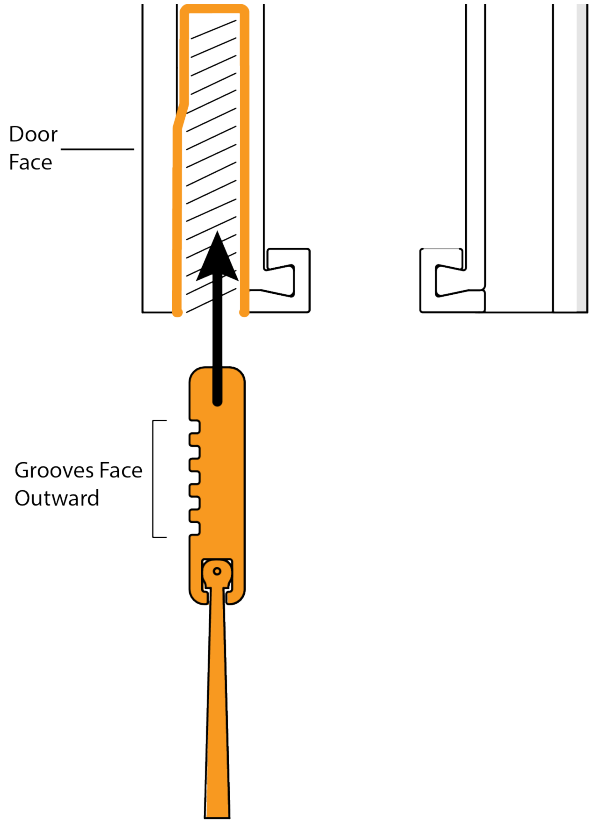
**The sweeps may end up longer than the sweep holder even after they have been trimmed to the size required.**

2. Insert the sweep into the sweep holder.

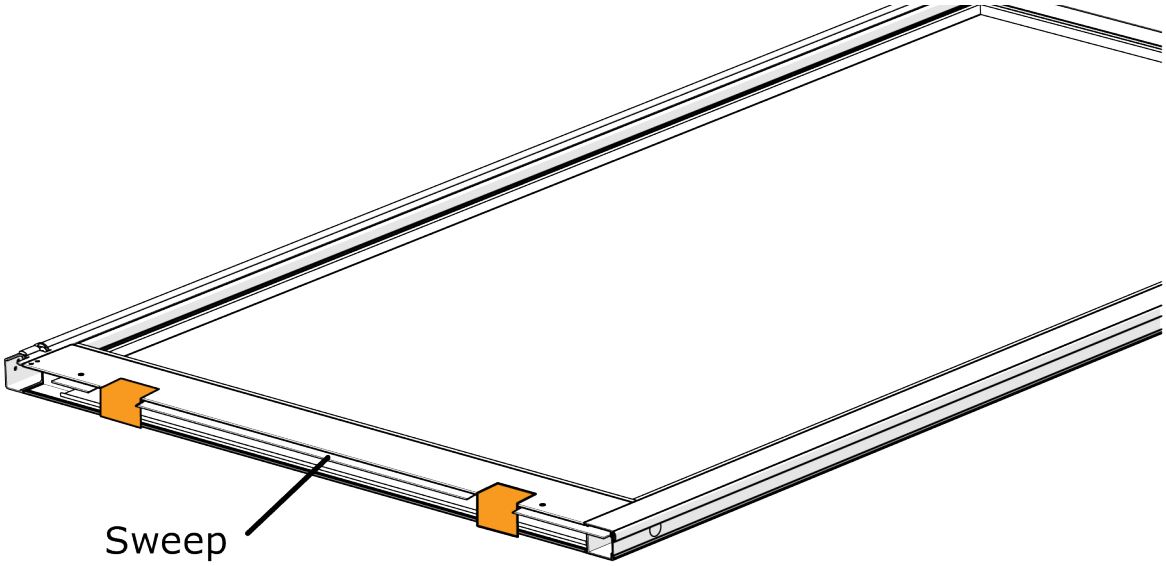


3. Insert the sweep holder into the sweep channel.




4. Use tape to hold the sweep into the channel while the door is being installed.




5. Be sure that both the door and the sidelite panel are prepared this way.

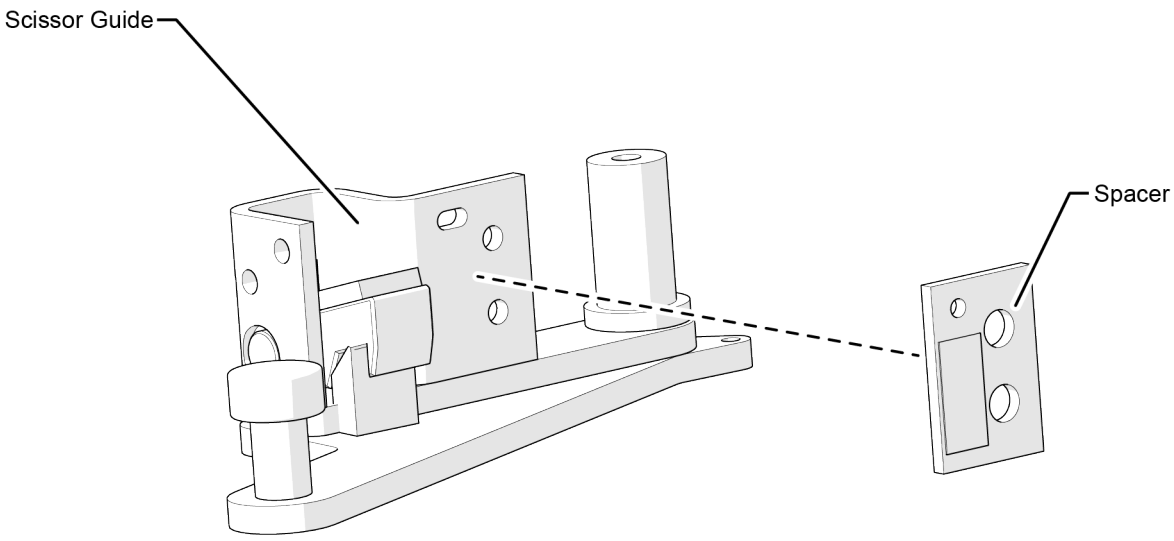
**NOTICE**

**The sweeps will be permanently attached after the door and panel have been mounted.**

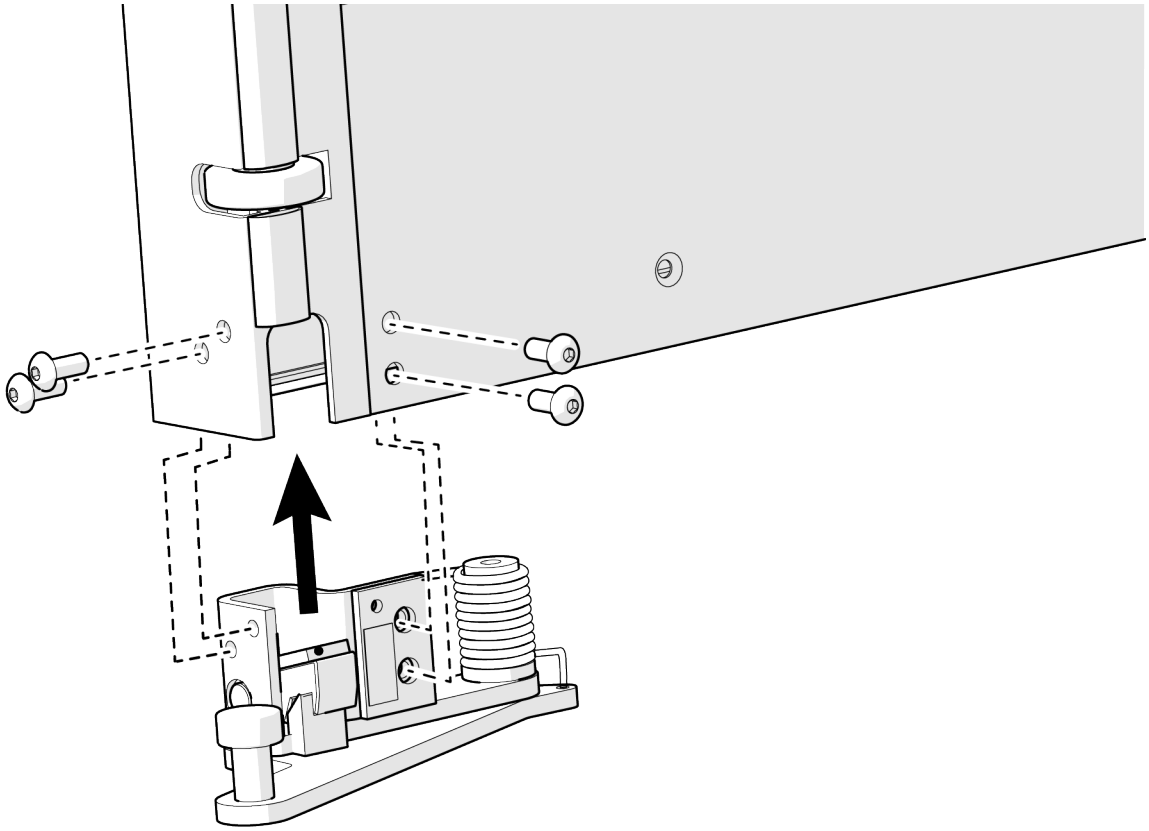
6. Locate the scissor guide kit and the spacer in the packaging. Peel the adhesive backing from the spacer and attach the spacer to the scissor guide.

**NOTICE**

**Be sure to align the three (3) spacer holes with the corresponding holes in the scissor guide.**

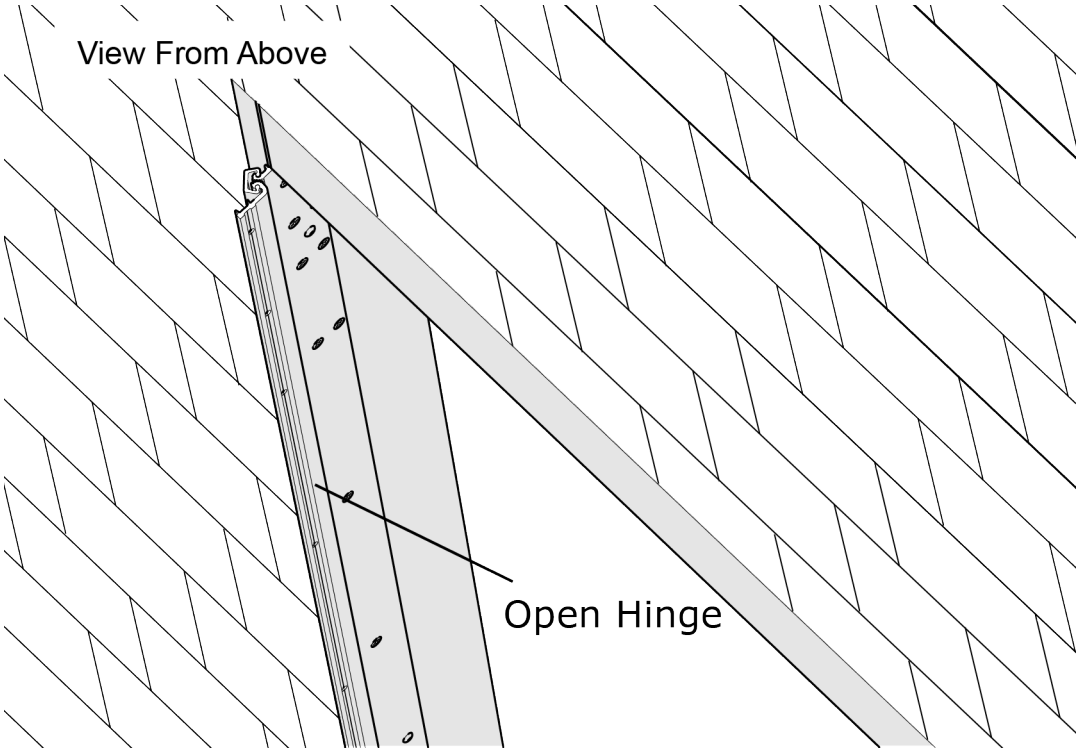



7. Using the four (4) included fasteners, secure the scissor guide kit to the leading edge corner of the sidelite panel.



8. Check the operation of the scissor guide by manually unlatching and verifying there is no interference.

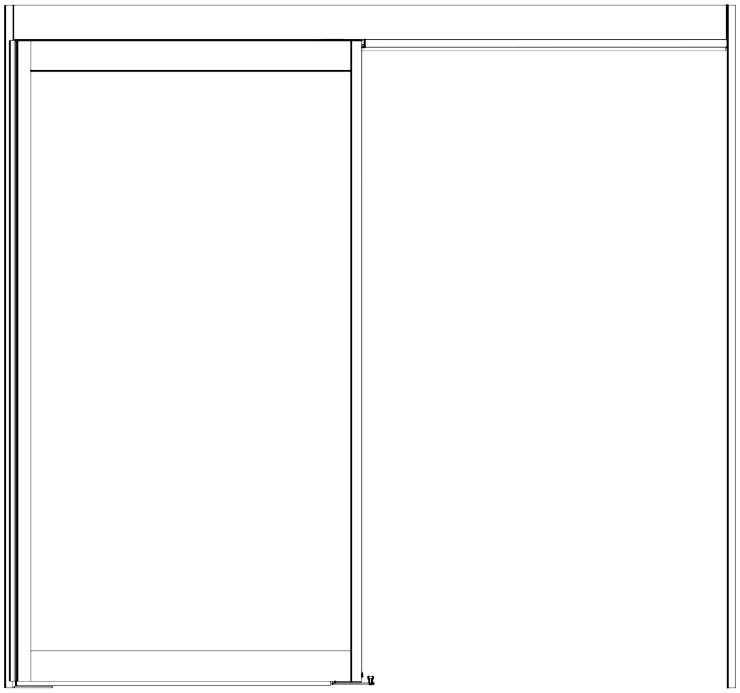
9. Open the hinge on the jamb to 90 degrees.



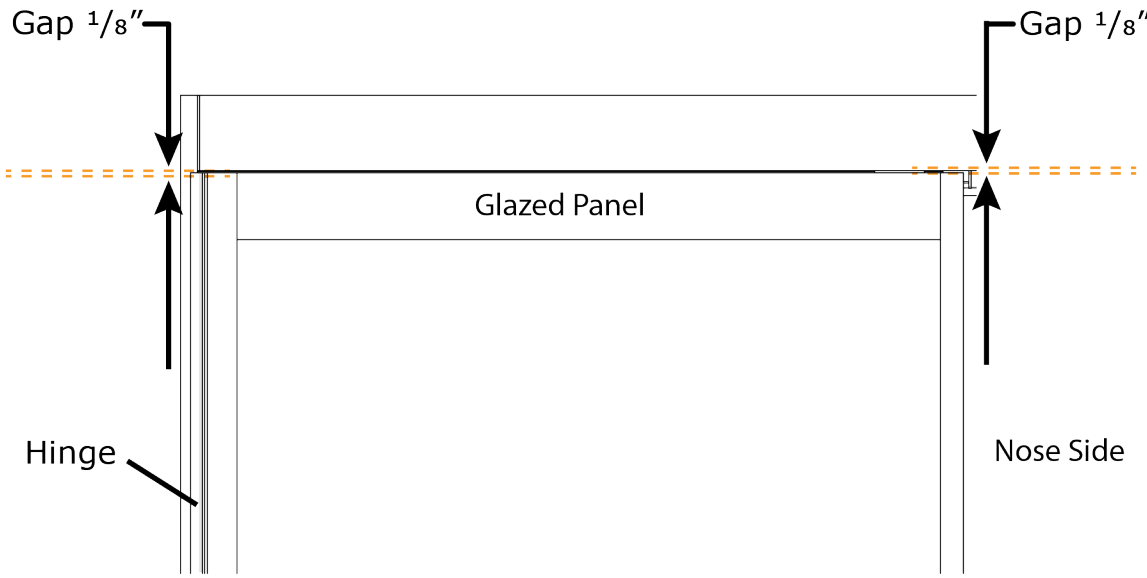

10. Move the sidelite into the closed position under the header.

**CAUTION**

**Exercise caution when positioning the sidelite and door to prevent damage to the sweeps.**

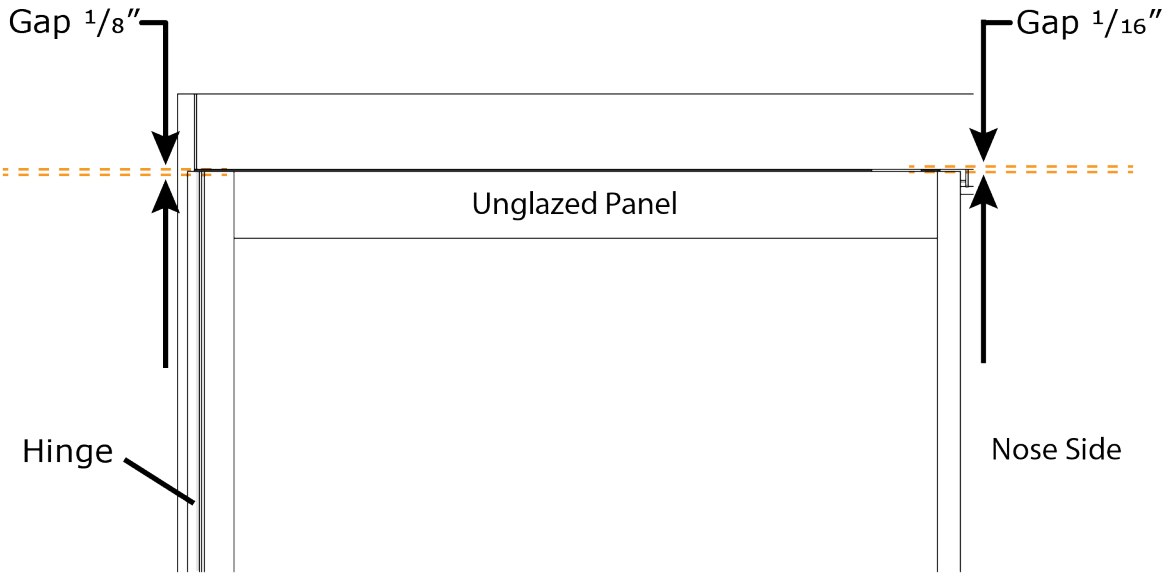


11. If the sidelite panel has been glazed already, place shims under the sidelite panel until there is a consistent 1/8” gap between the header and the top of the sidelite panel.

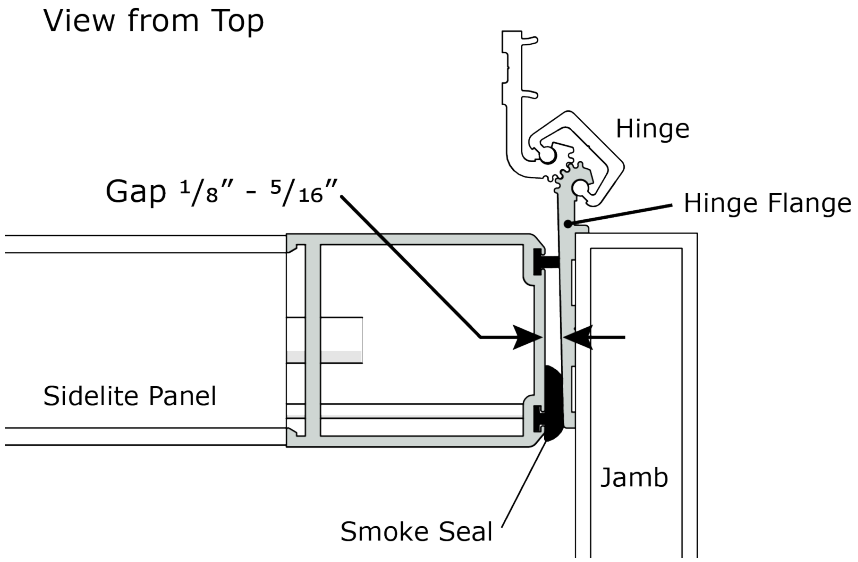



## NOTICE

**If the panel has not been glazed already, the gap will need to be set to account for potential sag after the weight of the glass has been added. In this situation, it is recommended that the gap at the nose of the sidelite is set at 1/16” while the gap at the hinge side of the sidelite is set at 1/8”.**



12. Verify the spacing between the face of the hinge flange attached to the jamb and the sidelite panel. There should be 1/8" - 5/16" gap and the smoke seal should touch the hinge flange to create a seal.




**NOTICE**

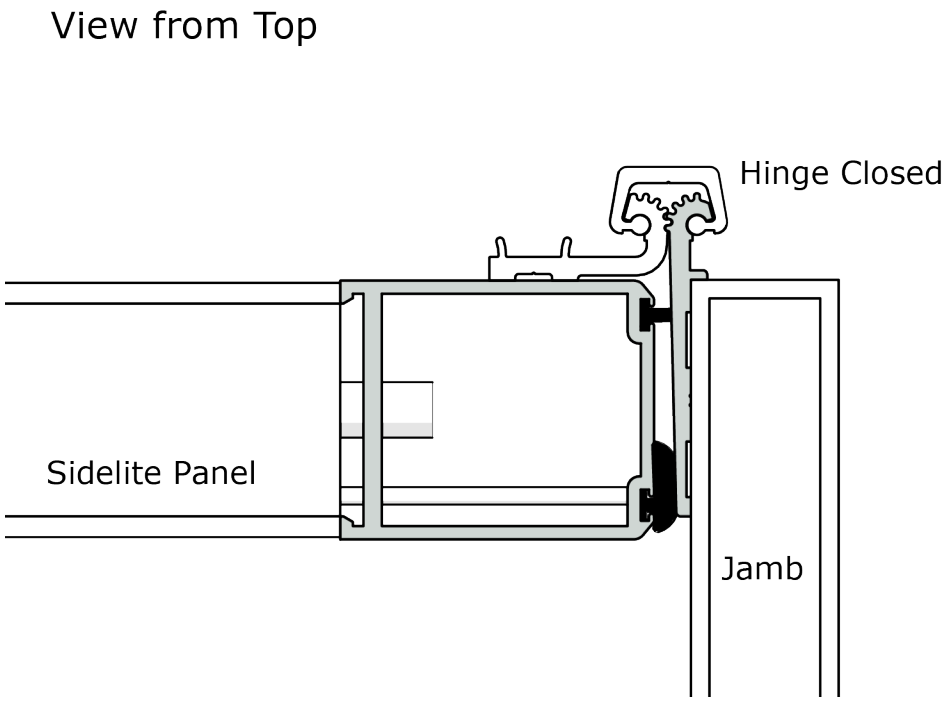
**To maintain a good seal, the gap must be checked between the aluminum hinge flange and the aluminum lead edge of the sidelite panel.**

**CAUTION**

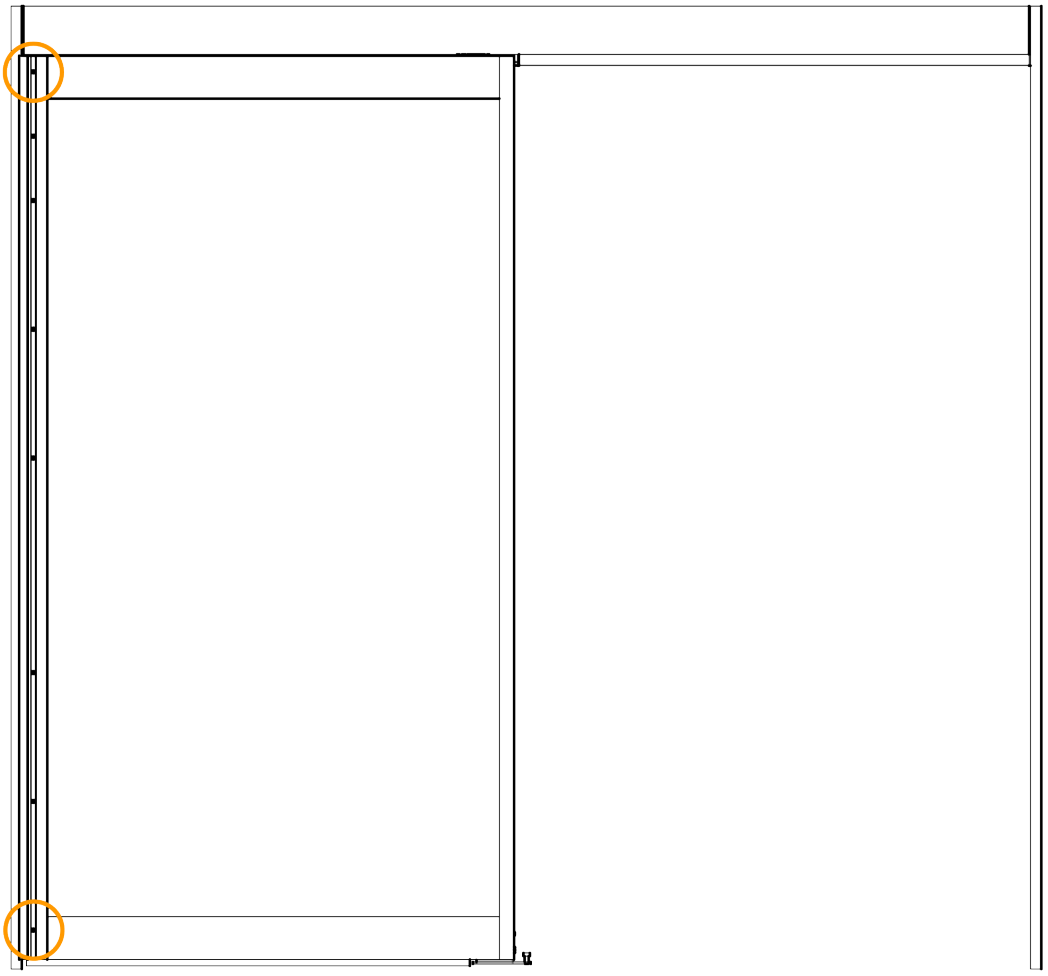
**Do not place a shim over the smoke seal or brush to measure the gap. This will make the gap too large.**

13. Check all gaps again to make sure that the sidelite panel has been positioned properly.

14. Close the hinge.



15. With the sidelite panel supported, drill a pilot hole through the top hole in the hinge and into the panel. Then drill one through the bottom hole of the hinge and into the panel.



16. Install a fastener through the top hole in the hinge into the panel. Then install one at the bottom of the panel.

**CAUTION**

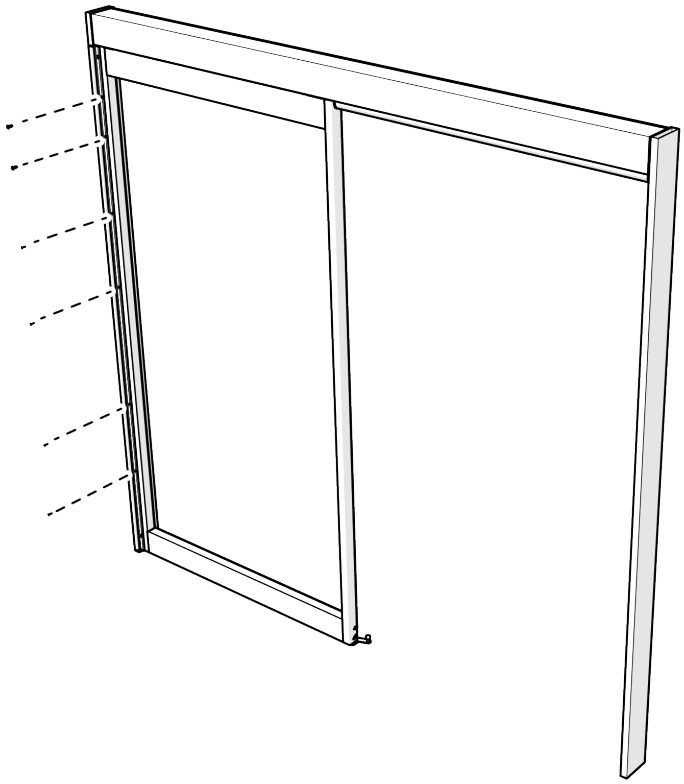
**If using a drill, be sure to lower the torque setting to prevent stripping the screws.**

17. Match drill holes through the remaining holes in the hinge and into the panel and then install fasteners.

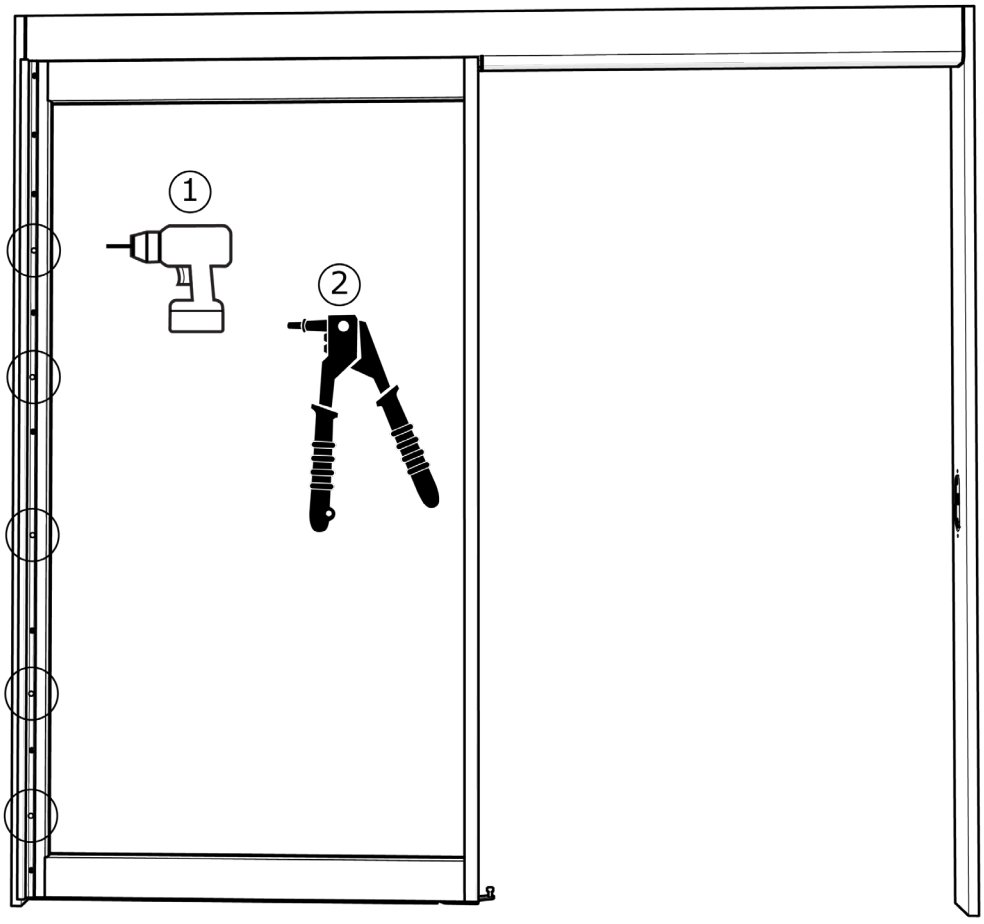
18. Remove the shims and verify that the sidelite panel is aligned and operating as designed.

19. Make fine adjustments as needed to the locking mechanism.

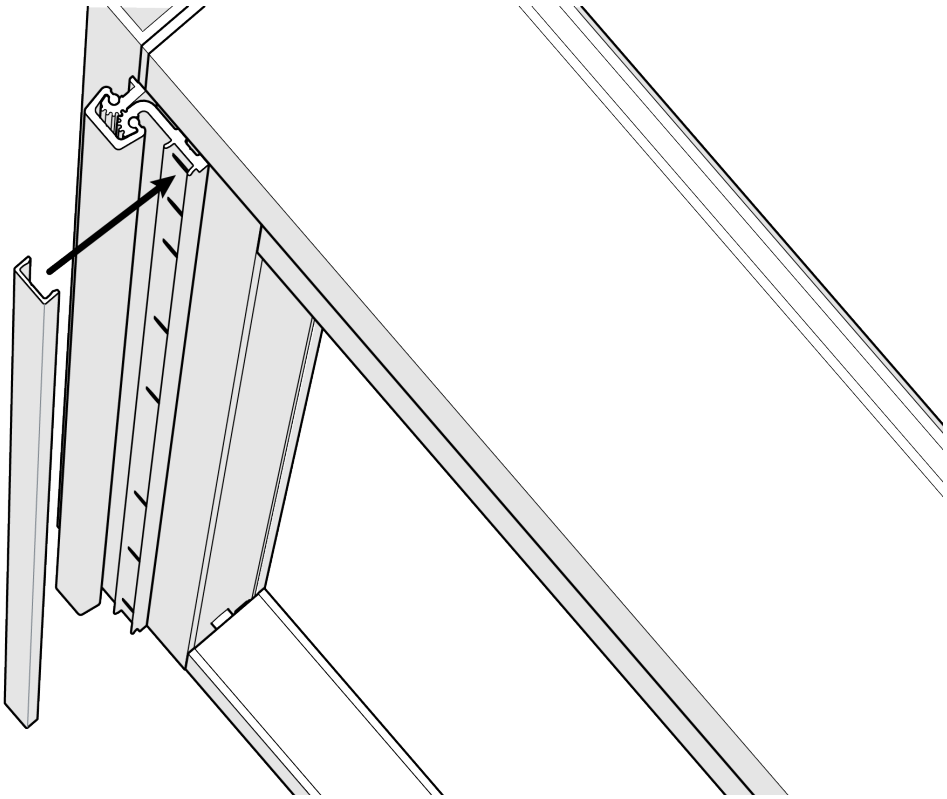
20. Install the remaining screws through the hinge and into the sidelite panel.



21. (1) Drill five (5) 3/16” holes evenly spaced through the hinge and into the sidelite panel and then (2) install rivets into the holes.



22. Install the hinge cover.

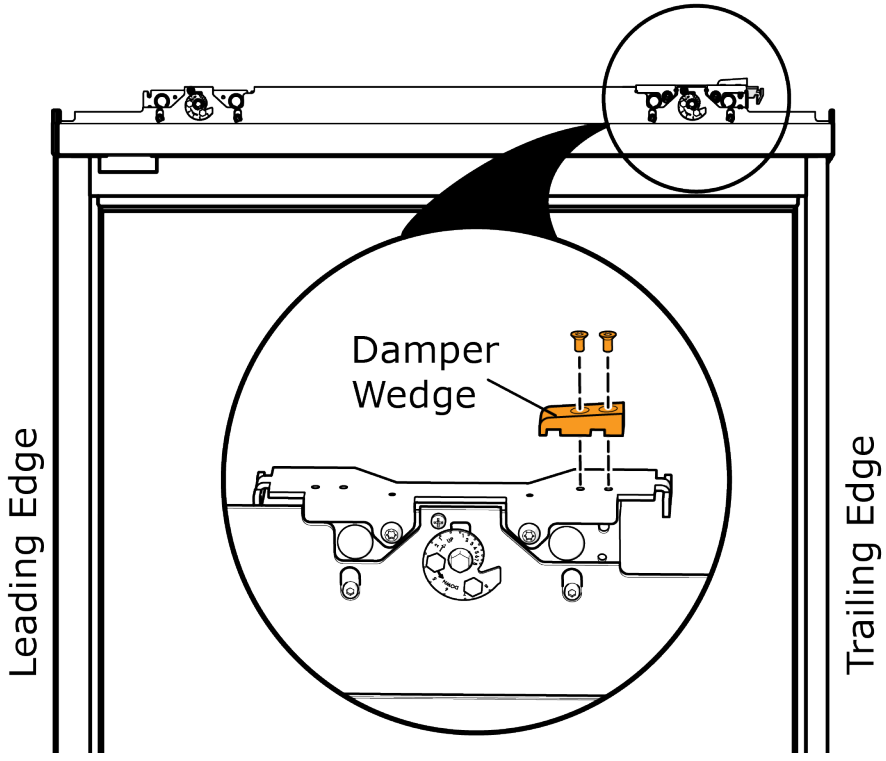


## 6.4.3 Active Panel Components Installation Procedure

1. Using the included screws, install the damper wedge as shown onto the trailing edge carrier.

**NOTICE**

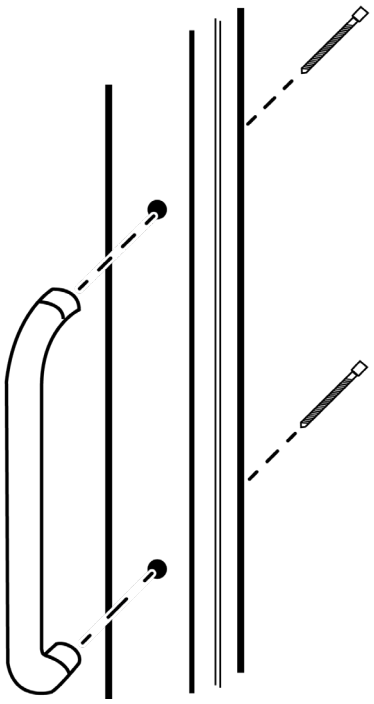
**The flat side of the damper wedge should face the trailing edge of the active panel.**



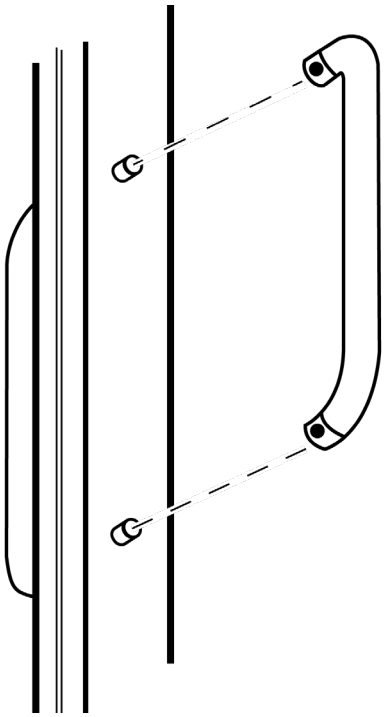
## Installing the C-Handle

For some non-smoke certified packages, a C-Handle may be included.

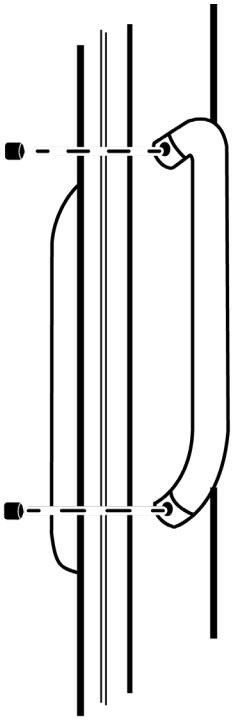
1. Insert the bolt through the door rail until it is flush with the face of the door.



2. Place the handle over the bolt heads until flush with the face of the door.



3. Insert and tighten the set screws to secure the handle.

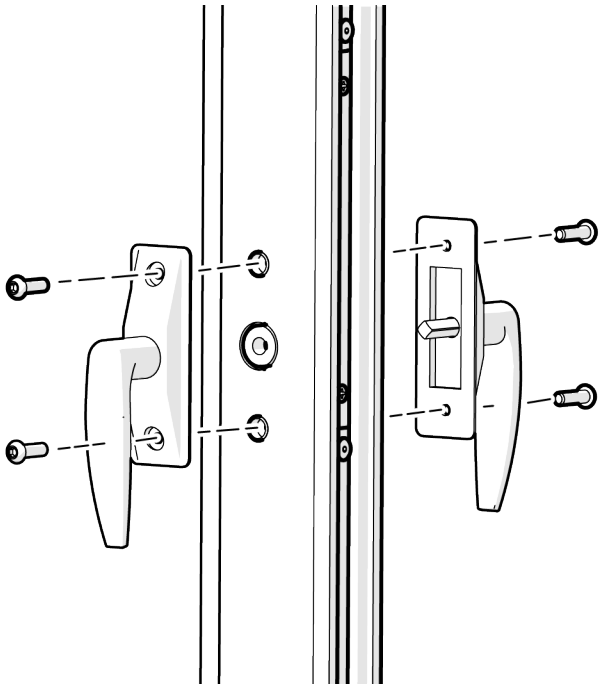


### Installing the Optional Positive Latch

**NOTICE**

**It is recommended that the optional positive latch is installed before the active leaf is mounted to the header.**

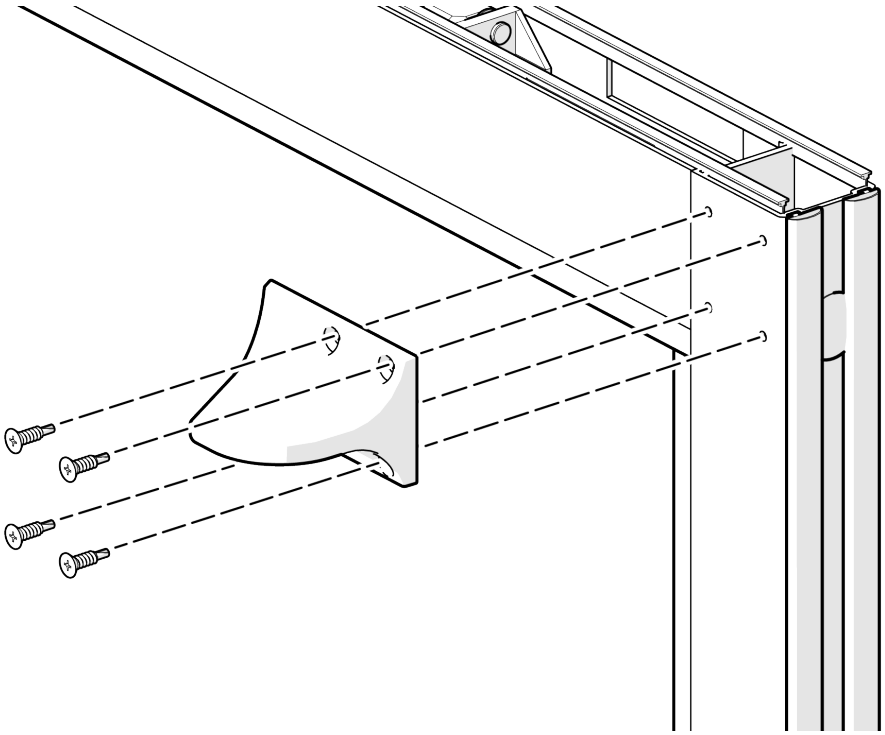
1. Mount the handles vertically with the handle positioned downward as shown. Use the supplied fasteners to secure the handles to the door.



## Installing the Optional Breakout Cam

The breakout cam is used to maintain the correct spacing between the sidelite panel and the active leaf when both are broken out.

1. Fasten the breakout cam to the door using the supplied fasteners.



## Active Panel Installation Procedure

Wheel brackets are factory adjusted to the fully upward position but it is important that this is verified onsite prior to installation.

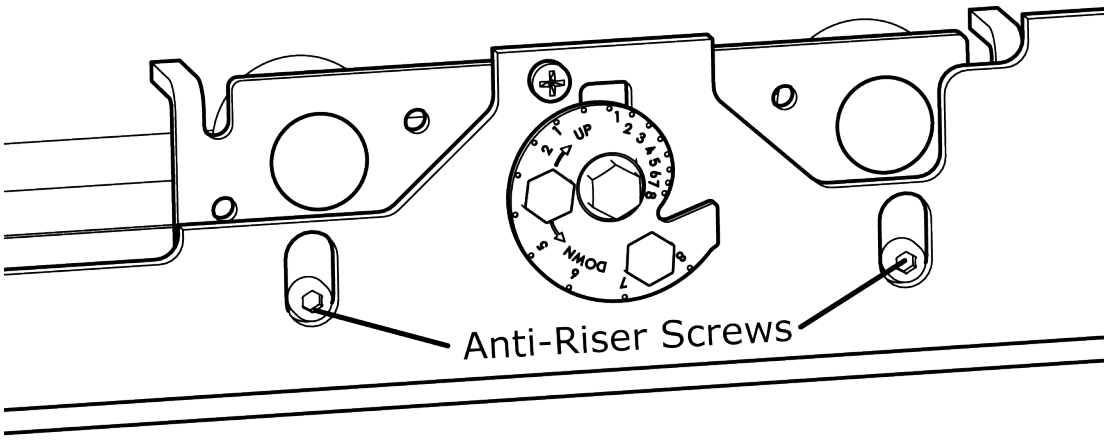
1. Loosen both (2) anti-riser screws on each wheel bracket.

**NOTICE**

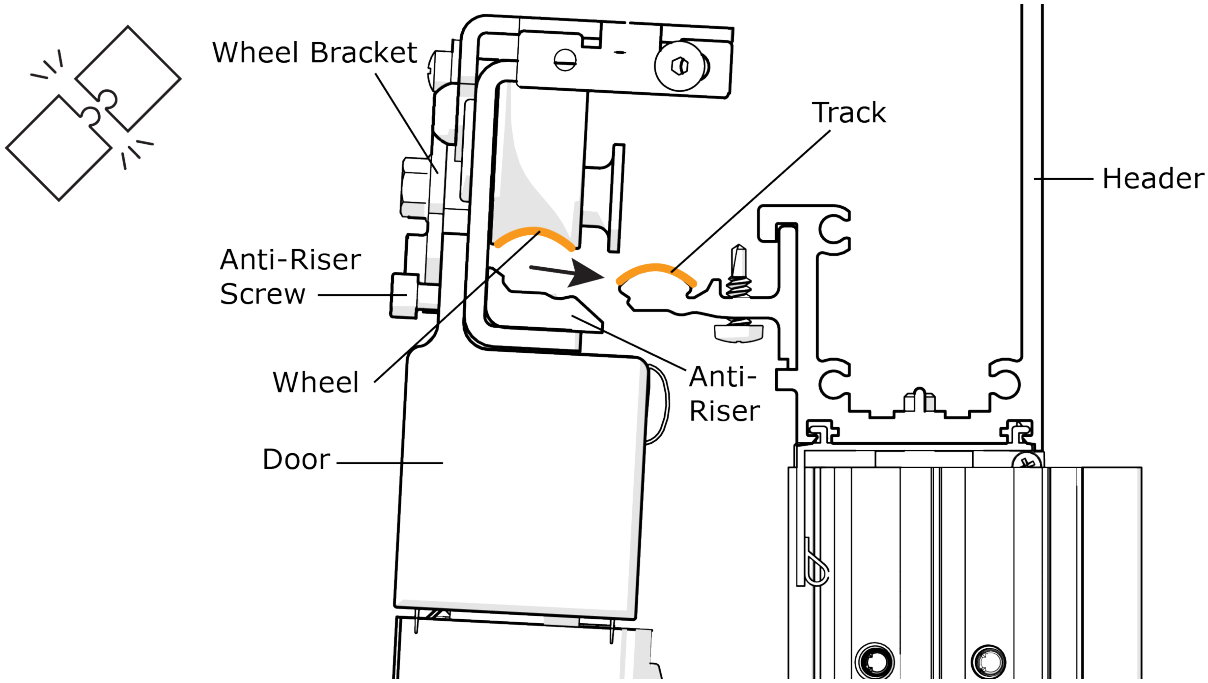
**It is important to fasten the header to the upper rough opening to prevent the center from distorting from the weight of the panels, especially when in breakout.**

**NOTICE**

**The screws will need to be backed out almost all the way to create enough room for the wheel bracket to snap onto the track.**



2. With the front cover open, position the top of the door into the header. Tilt the door and place the wheel brackets on top of the track inside the header.

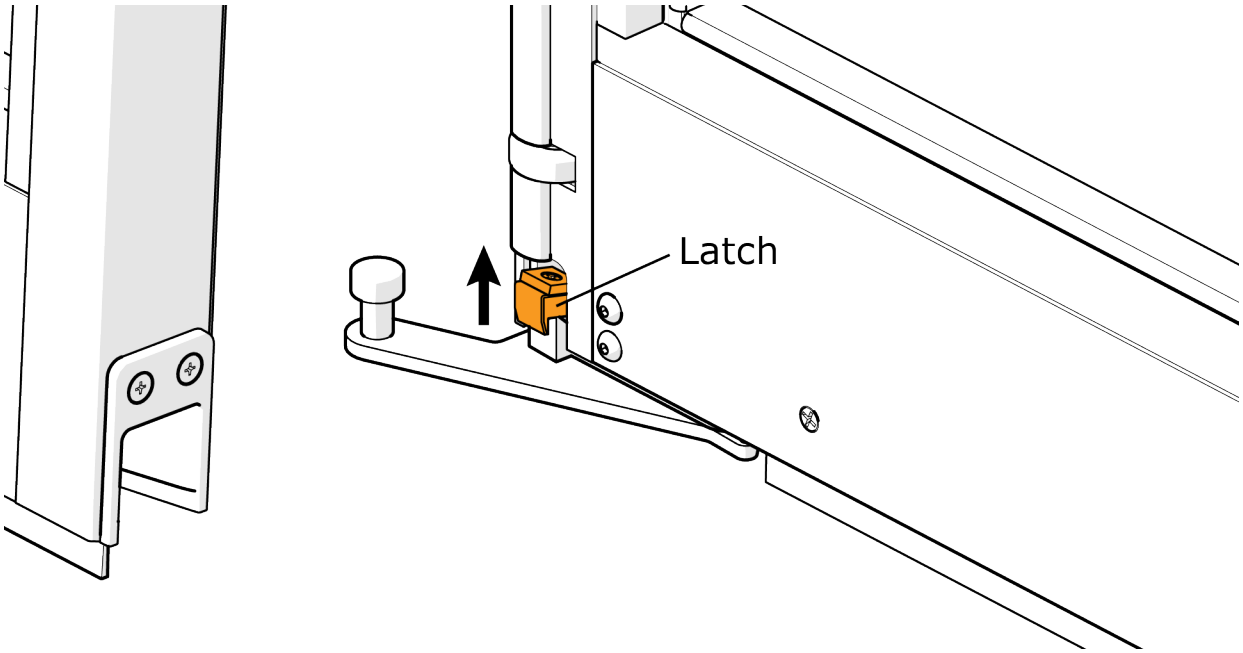



3. Tighten the anti-riser screws to secure the wheel brackets onto the carrier.

### Connecting the Scissor Guide to the Door

1. Place the active panel in the closed position.

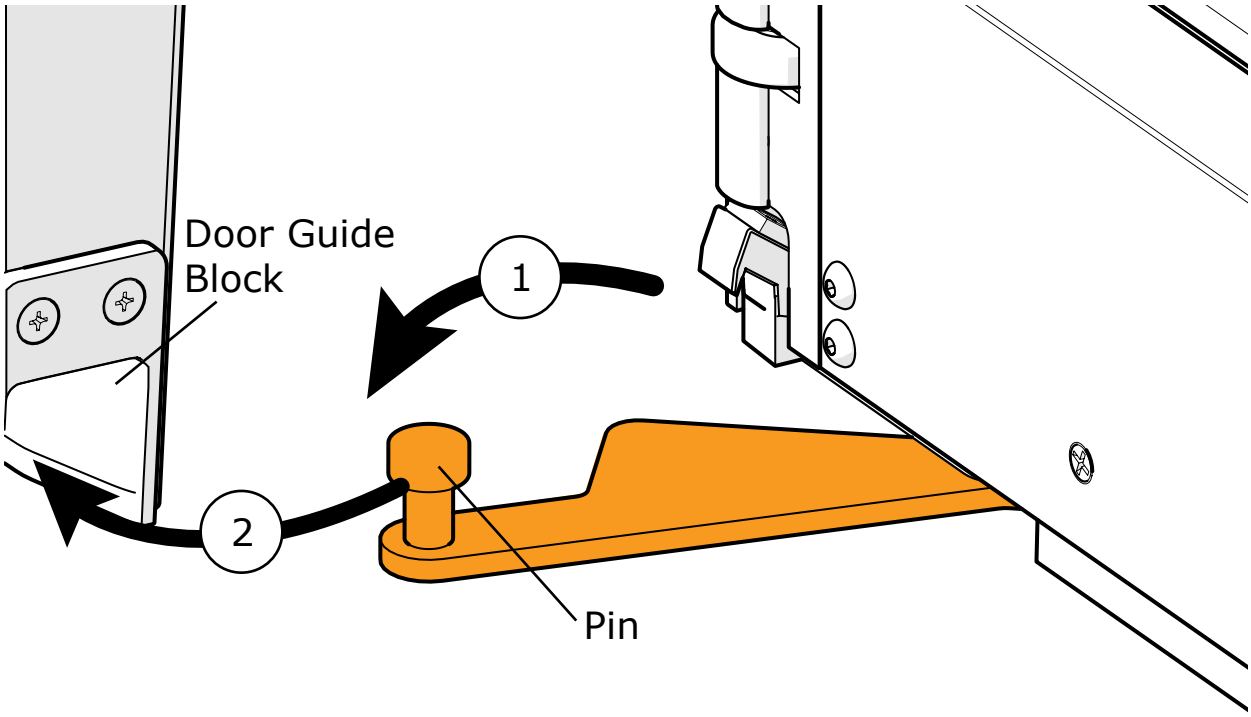
2. Manually unlatch the scissor guide on the sidelite panel by lifting it upward.



3. Rotate the pin outward (1) and then guide it into the door guide block (2).

## NOTICE

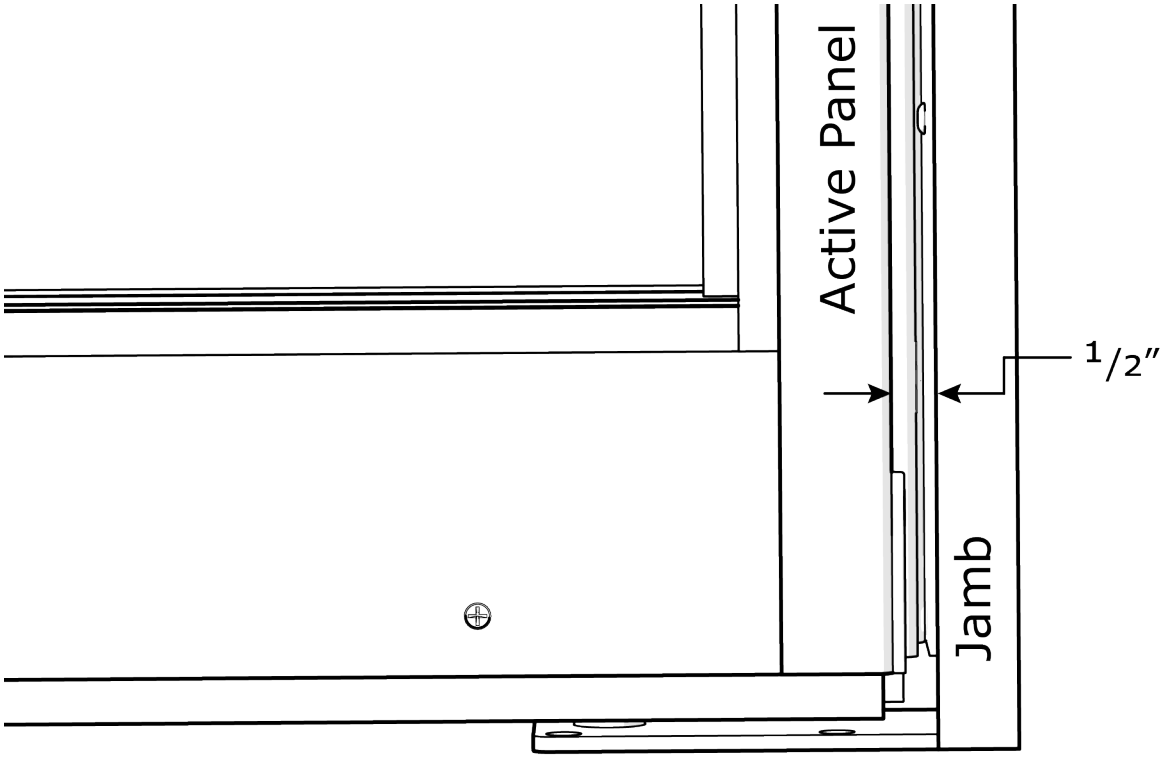
**The scissor guide pin is spring loaded. With the latch raised, the pin can rotate enough to insert it into the door guide block.**



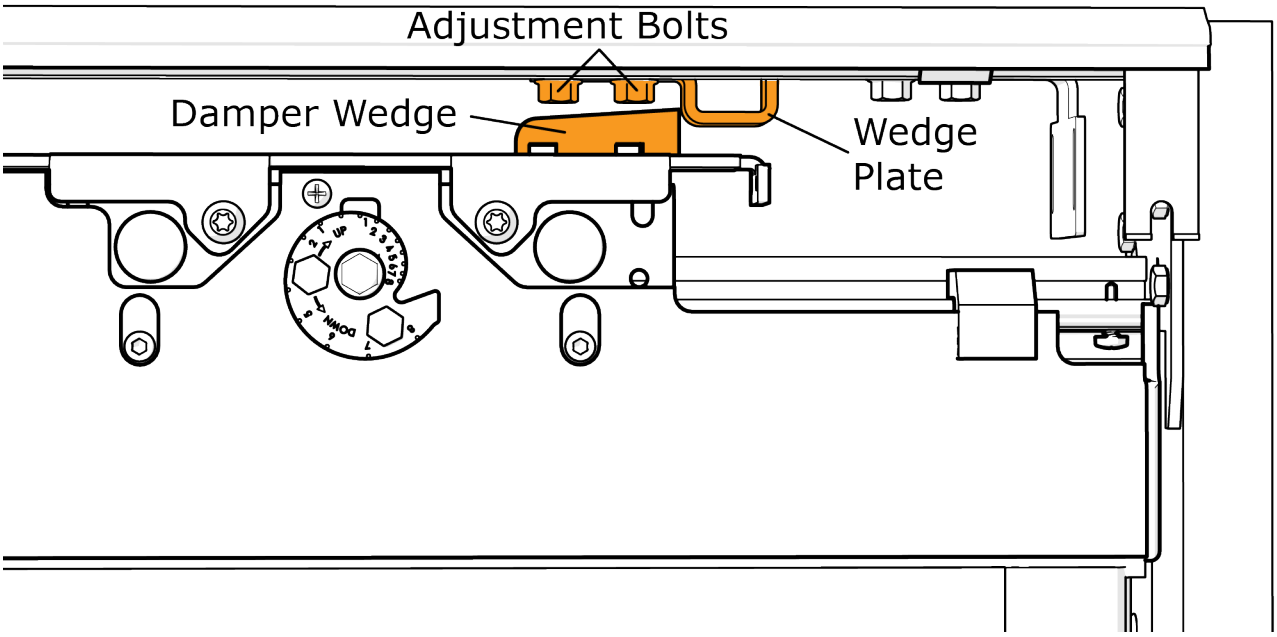

4. Release the pin and the latch when the pin is inside the door guide block.

## 6.4.4 Door Stop Adjustment

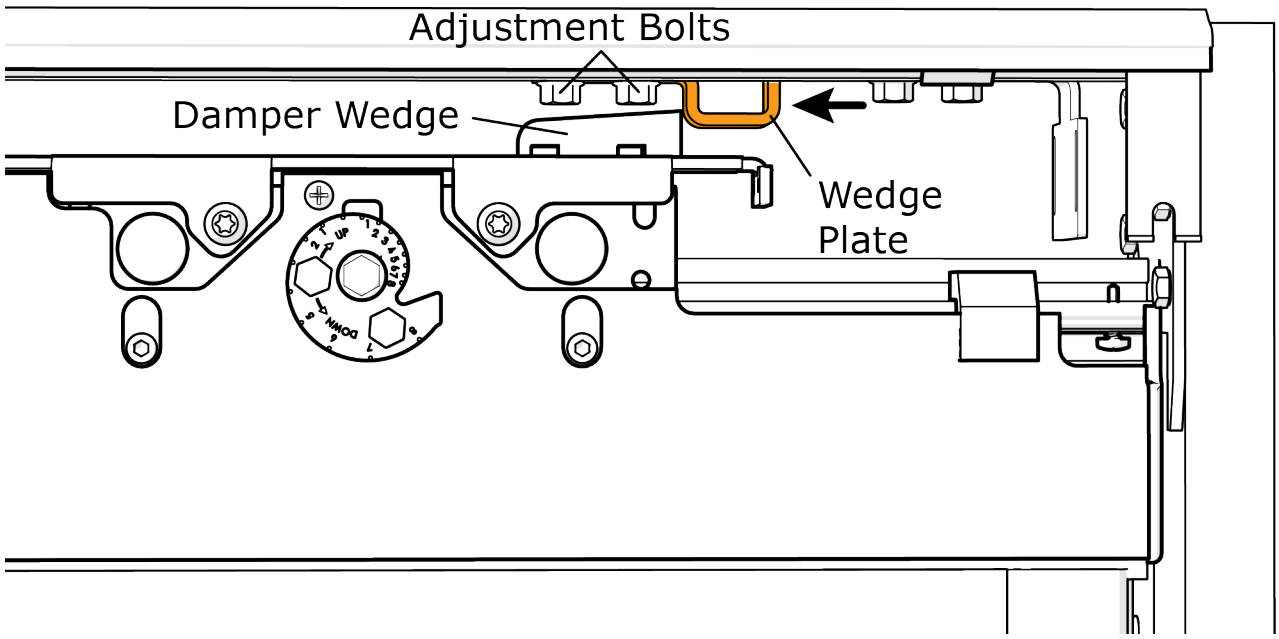
At full open, the trailing edge of the active panel should be 1/2” from the jamb. The damper wedge is mounted to be used as a stop, not to hold the door open. Use the following procedure to adjust door stop of the active panel.




1. Loosen both (2) adjustment bolts securing the wedge plate to the header.

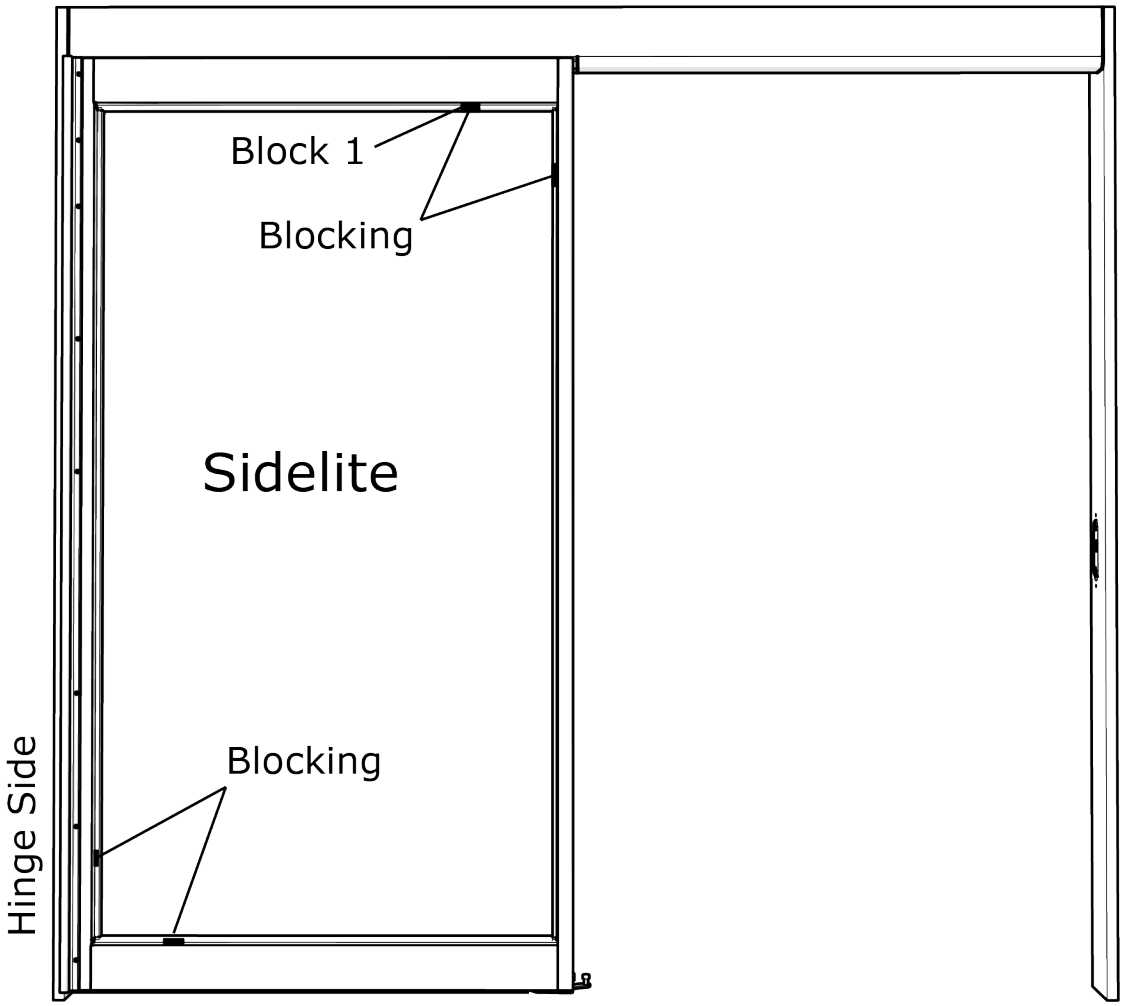


2. With the heel rail of the active panel spaced 1/2” from the jamb, slide the wedge plate left until it contacts the damper wedge. Then, tighten the adjustment bolts.



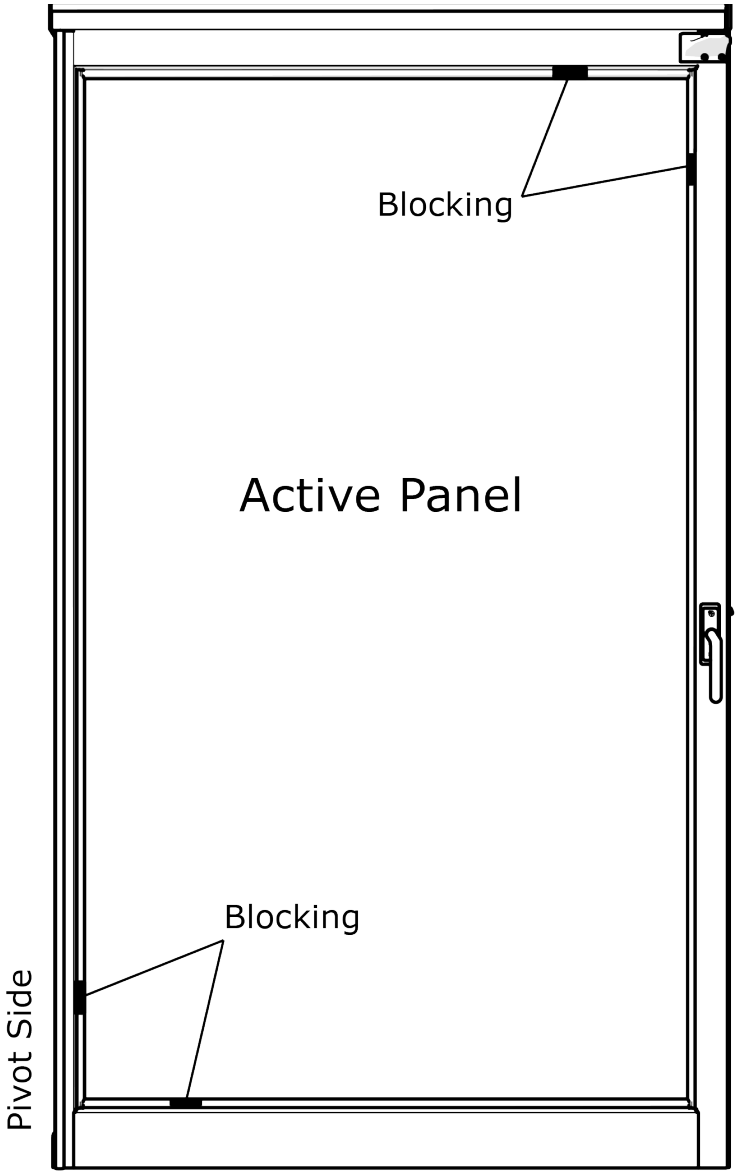
### 6.4.5 Glazing and Blocking

Glass blocks are installed by the manufacturer. Please verify that the glass block locations are correct.

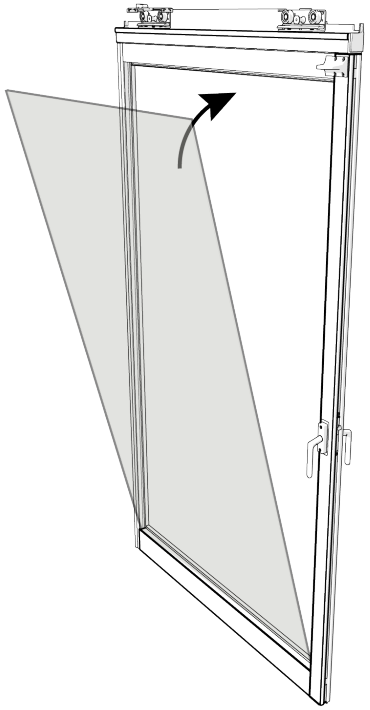



**NOTICE**

**If the panel is not square or the nose is sagging, increase the size of the block 1 to raise the nose within 1/8” of the header.**

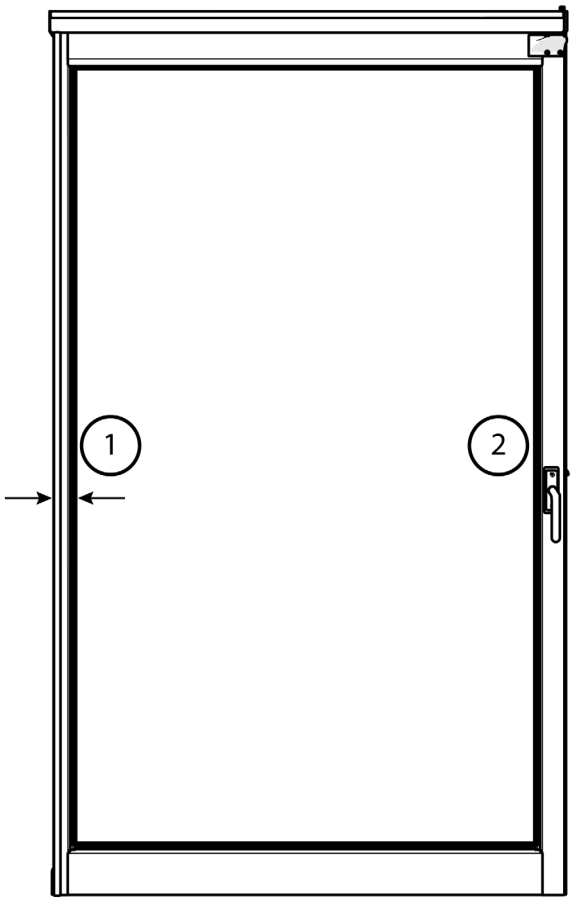

Blocking
Active Panel
Blocking
Pivot Side

1. Place the infill into the active panel.

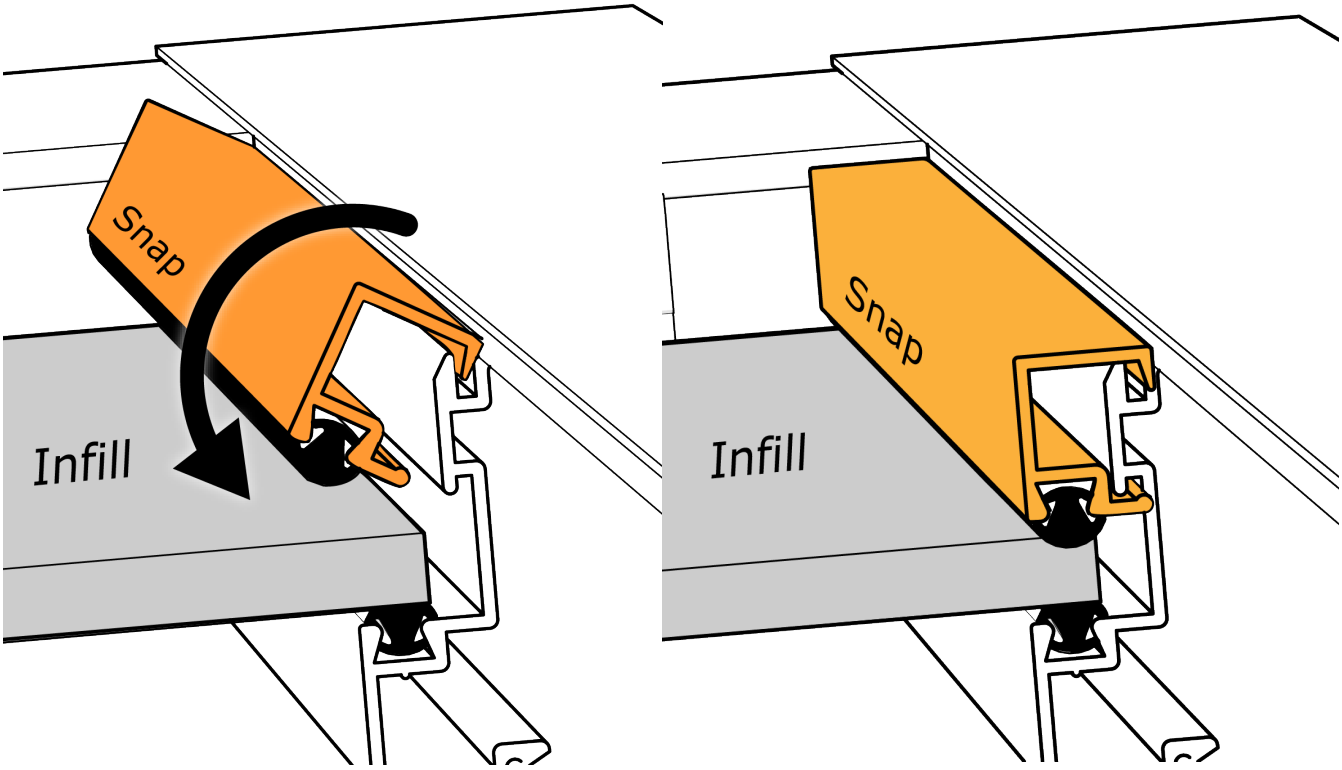


## NOTICE

**The snaps must be installed in a specific order to prevent the distortion of the panel. The first snap should be installed on the side with the narrow edge (1).**



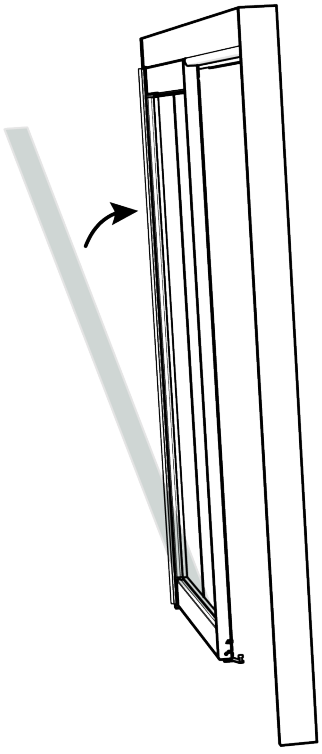
2. Install the snap on the trailing edge of the active panel. Insert the snap into the channel and rotate it into position.




3. Install the snap on the leading edge of the door.

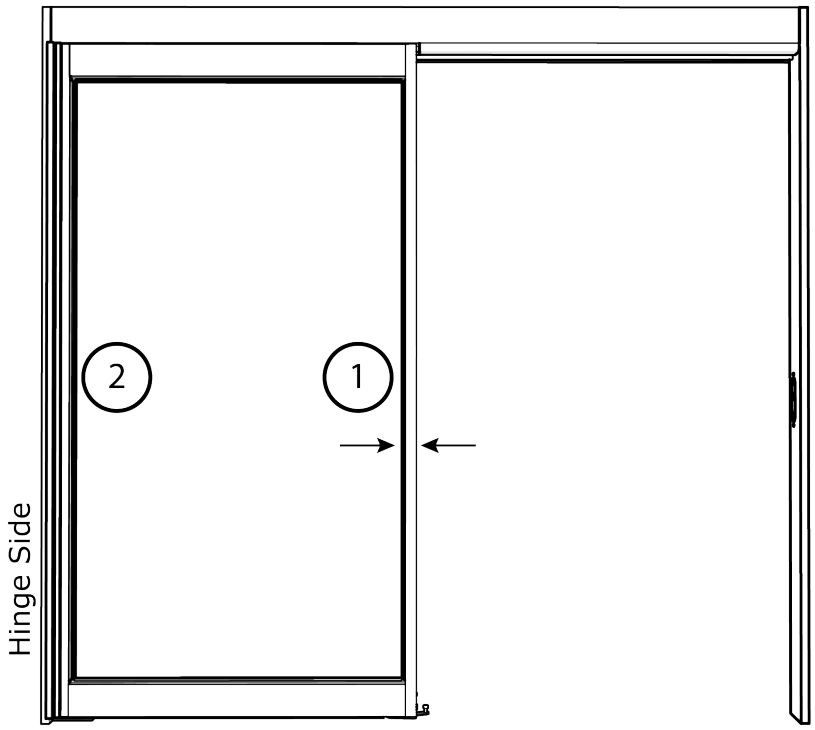
4. Next, install the snap on the top and bottom of the infill.

5. Place the infill into the sidelite panel.

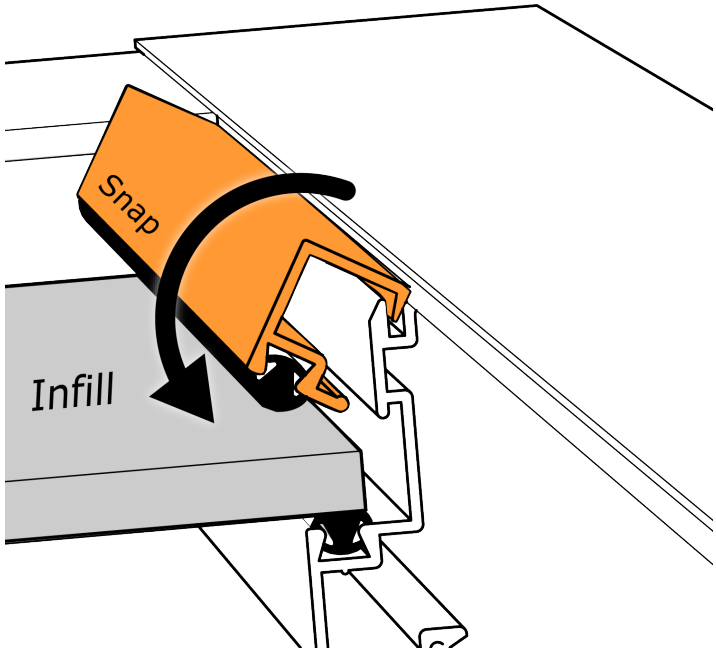


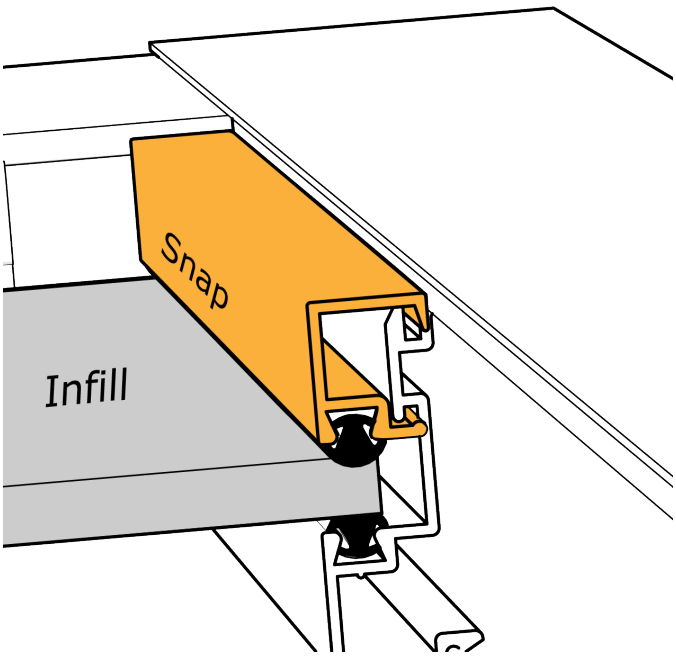
## NOTICE

**The snaps must be installed in a specific order to prevent the distortion of the panel. The first snap should be installed on the side with the narrow edge (1).**




6. Install the snap on the leading edge of the sidelite panel which is the opposite side of the hinge. Insert the snap into the channel and rotate it into position.



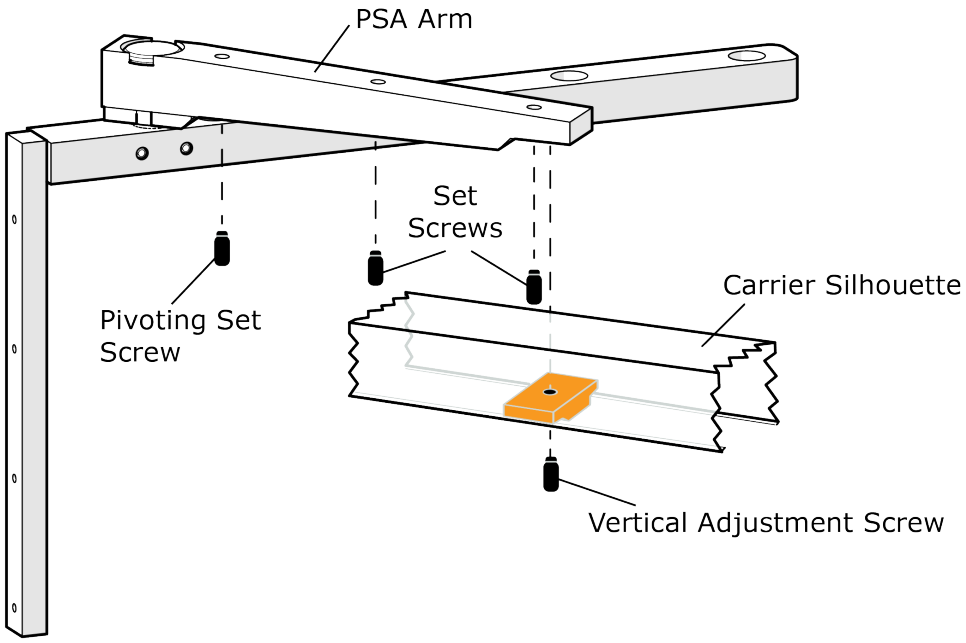

7. Install the snap on the trailing edge (hinge side) of the sidelite panel.

8. Next, install the snap on the top and bottom of the infill.

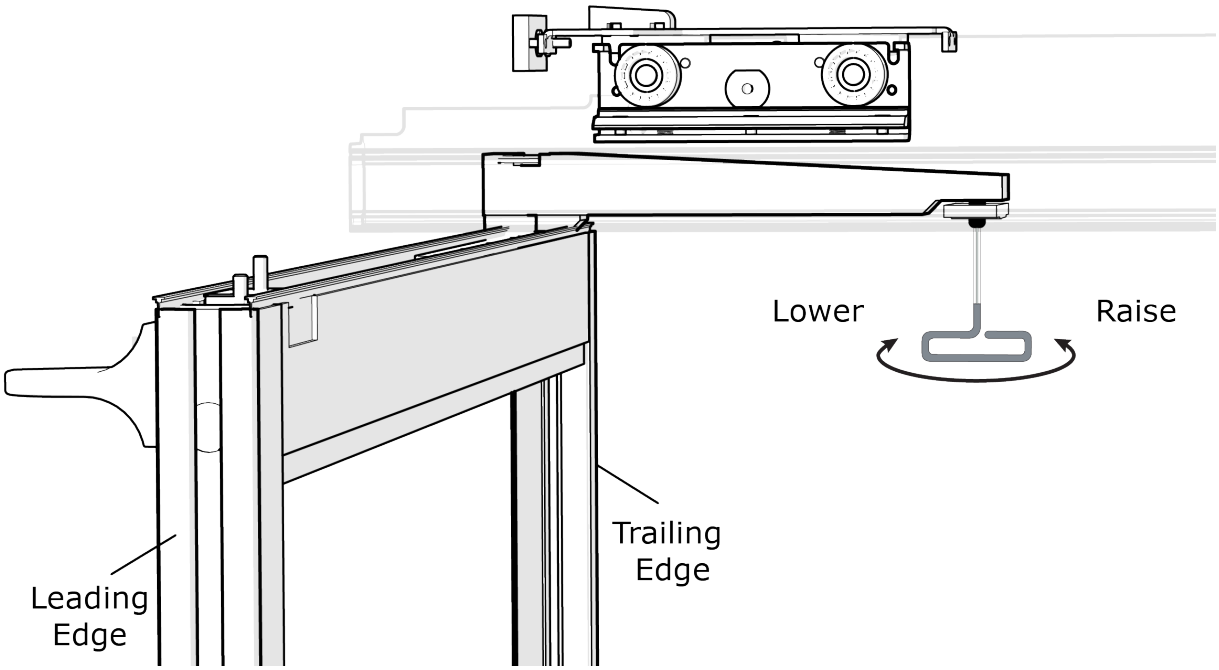
## 6.4.6 Gap Adjustments

### Adjusting the PSA Arm

If the gap is not consistent between the carrier and the door, adjust the PSA arm to raise or lower the leading edge of the door. The PSA arm has a vertical adjustment screw that allows for the door to be leveled.




1. Open the door fully and then perform the breakout from the carrier.
2. Tighten the pivoting set screw and loosen both (2) set screws.
3. To raise the leading edge of the door, tighten the vertical adjustment screw. To lower the leading edge of the door, loosen the vertical adjustment screw.



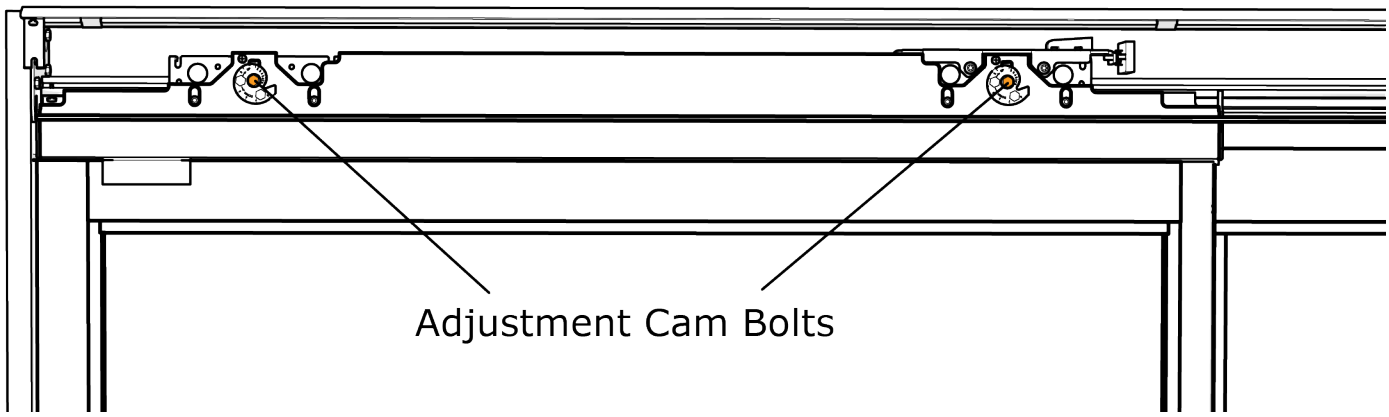

4. When the gap has been leveled, tighten both (2) set screws.
5. Confirm that the door engages the latch correctly.
6. Re-check the gap after the infill has been installed.

## Active Leaf Door Height Adjustment

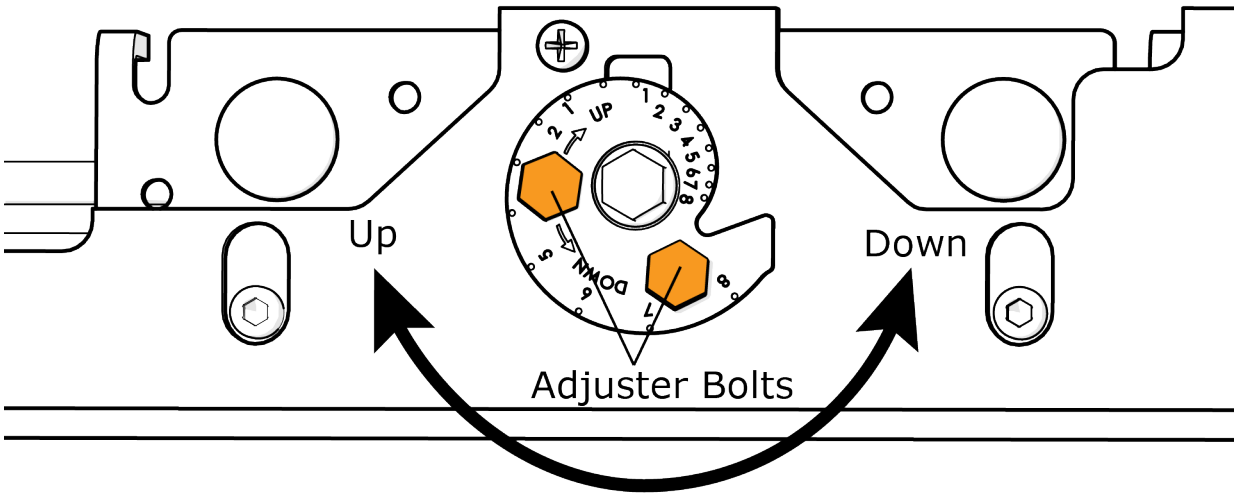
**NOTICE**

**The sidelite should be adjusted level and plumb with the proper 1/8" gap at the head before adjusting the active leaf.**

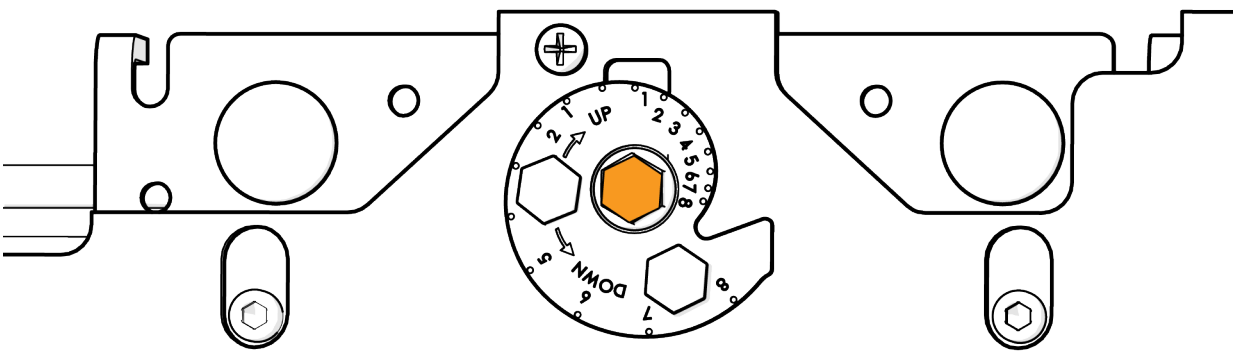
1. Loosen the adjustment bolts on both wheel brackets.




2. Rotate the cams using a 10 mm socket to level and align the door horizontally with the sidelite.



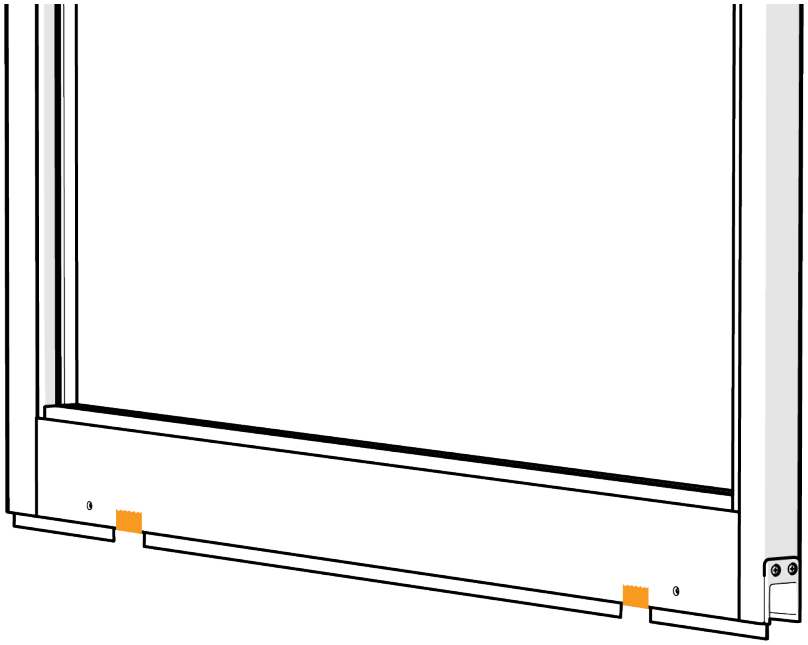

3. After the leveling process has been completed, tighten the bolts on each wheel bracket and re-check for level.



# 6.5 Options Installation

## 6.5.1 Sweeps Installation

1. Remove the tape holding the sweeps into the channel.



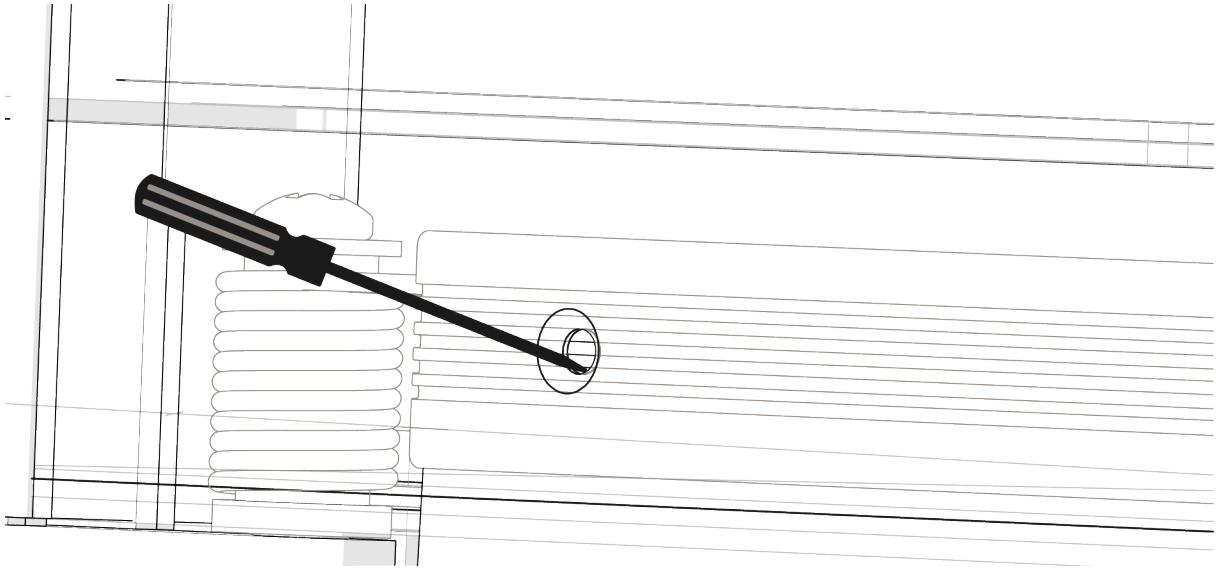
2. Position the sweeps so they are just above the highest point of the floor.

**NOTICE**

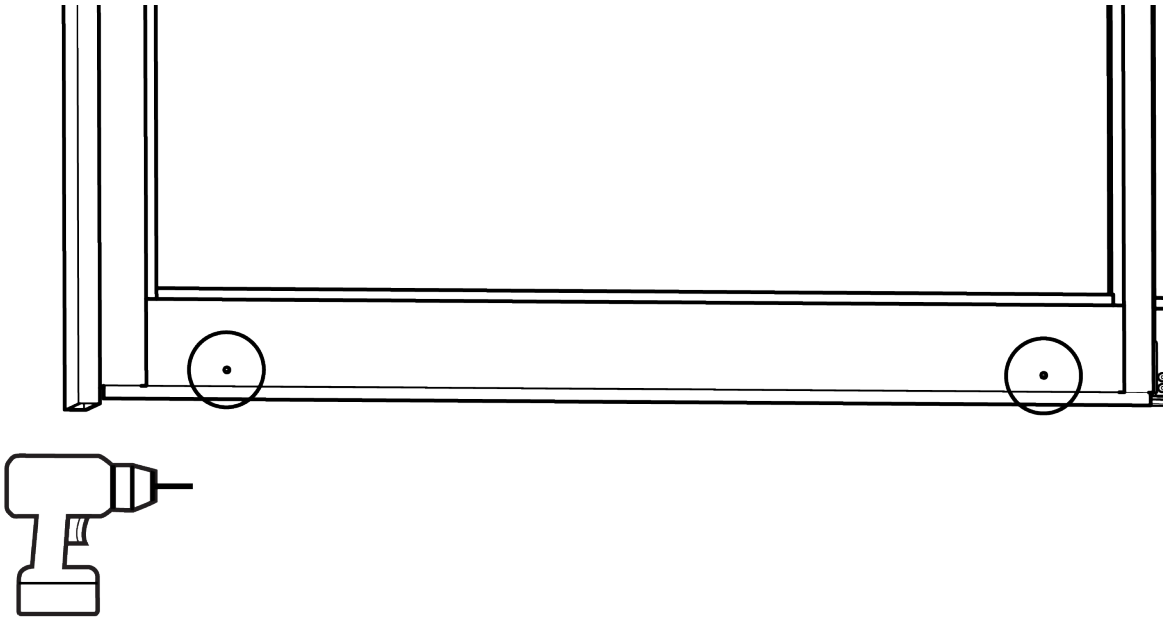
**The sweeps should not touch any part of the floor while opening the door or during breakout. 1/16” clearance is recommended.**

**NOTICE**

**Adjust the vertical position of the sweep using a P1 flat head screwdriver through the sweep mounting screw hole.**



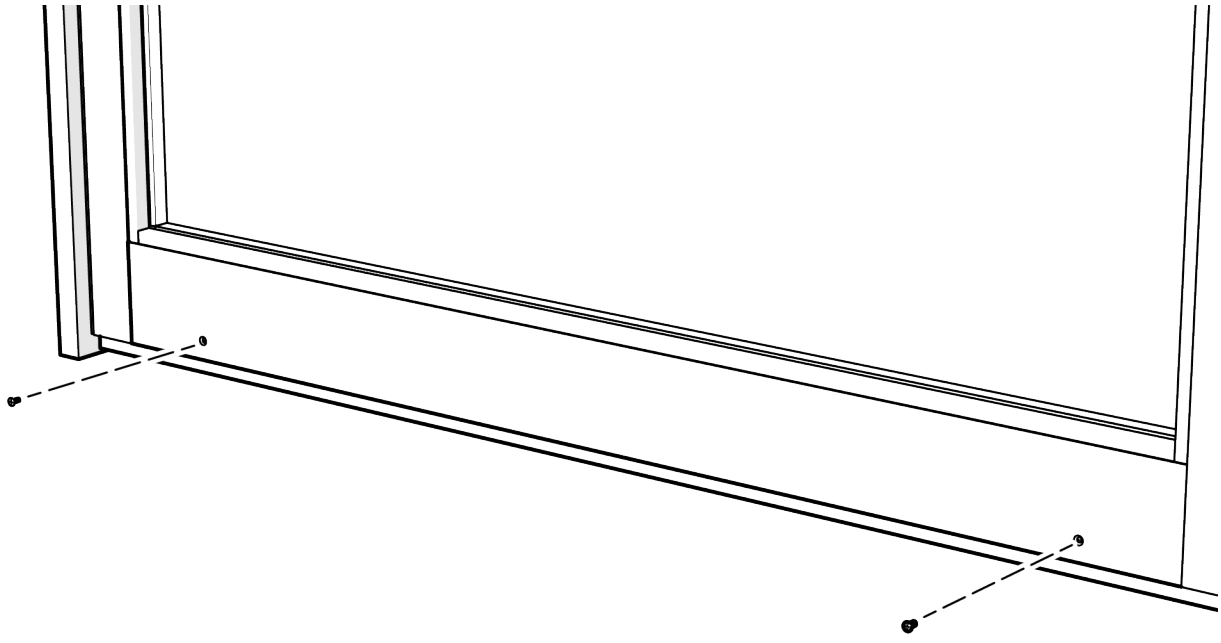
3. With the gap between the sweep and the floor set properly, drill through the countersunk holes in the panels and into the sweeps holder.



4. Fasten the sweeps to the panels using the supplied form-threading screws.

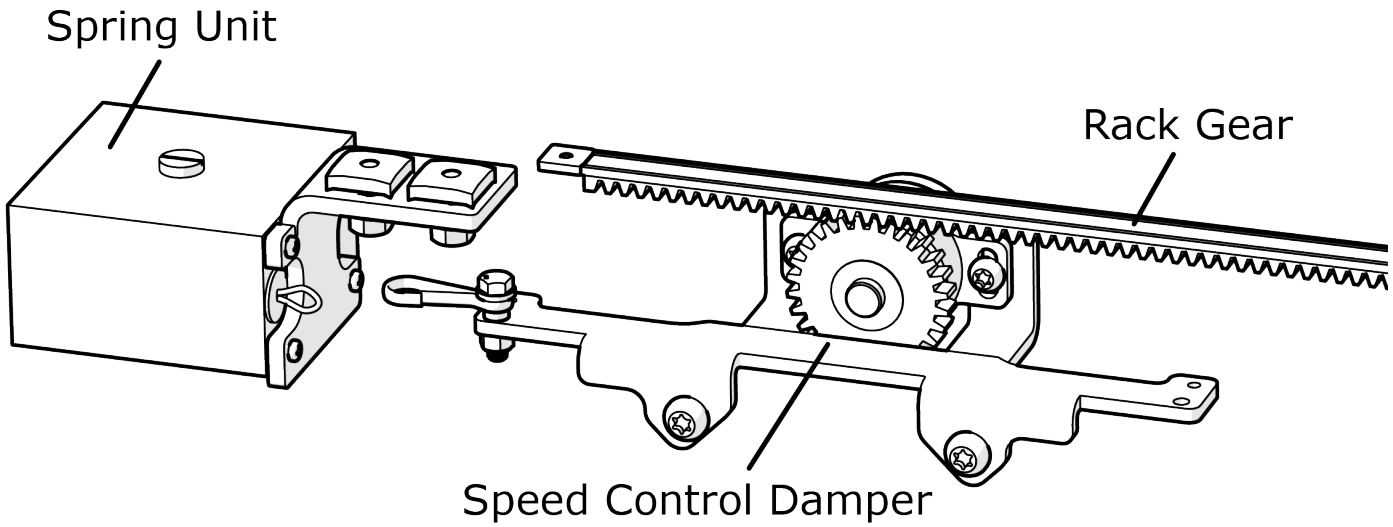
## NOTICE

**The screws are thread-forming but not self-tapping.**



## 6.5.2 Self-Closing System Installation

The speed control kit should be installed after hanging and adjusting the active leaf.




The self-closing system includes the three (3) main components:

**Rack Gear** - This component is factory installed in the header and works with the speed control to regulate speed and latching force.

**Speed Control Damper** - This component is shipped loose and must be attached to the door panel after installing the active leaf panel. It regulates the door-closing speed. The dial on the back adjusts the dampening.

**Spring Unit** - This component is factory installed in the header and provides the force to pull the door closed. The spring force can be adjusted using a large flat-blade screwdriver.

**NOTICE**

**Speed control components are adjustable to provide flexibility and customization for the user. It is important to understand the adjustments and how they interact with each other.**

**NOTICE**

**Knowledge of how the door will be utilized is important when setting up the system properly.**

## Door Tuning - Theory of Operation

For door systems with the Positive Latch option, it is important to understand the operation of each component so that the door can be tuned for proper closure. Adjustments can be made to the tension of the Spring Unit, the positioning of the Rack Gear, and to the tension of the Speed Control.

When a properly tuned door closes, the Speed Control Damper mounted to the leading wheel bracket will engage the Rack Gear in the header to slow down the closure rate of the door. When the leading edge of the door is approximately 7” from the jamb, the Speed Control Damper should disengage from the Rack Gear and the door should increase closure speed to overcome latch kick and fully close without slamming shut against the jamb.

**The Spring Unit tension is preset at the factory for the majority of installation configurations. However, as a last resort, adjustments may be necessary to account for various conditions that may be encountered. The Rack Gear is factory positioned in the header in a general location but should be adjusted onsite during the door tuning procedure. The Speed Control is not preset to a specific value from the factory and must be adjusted onsite.**

**Considerations:**

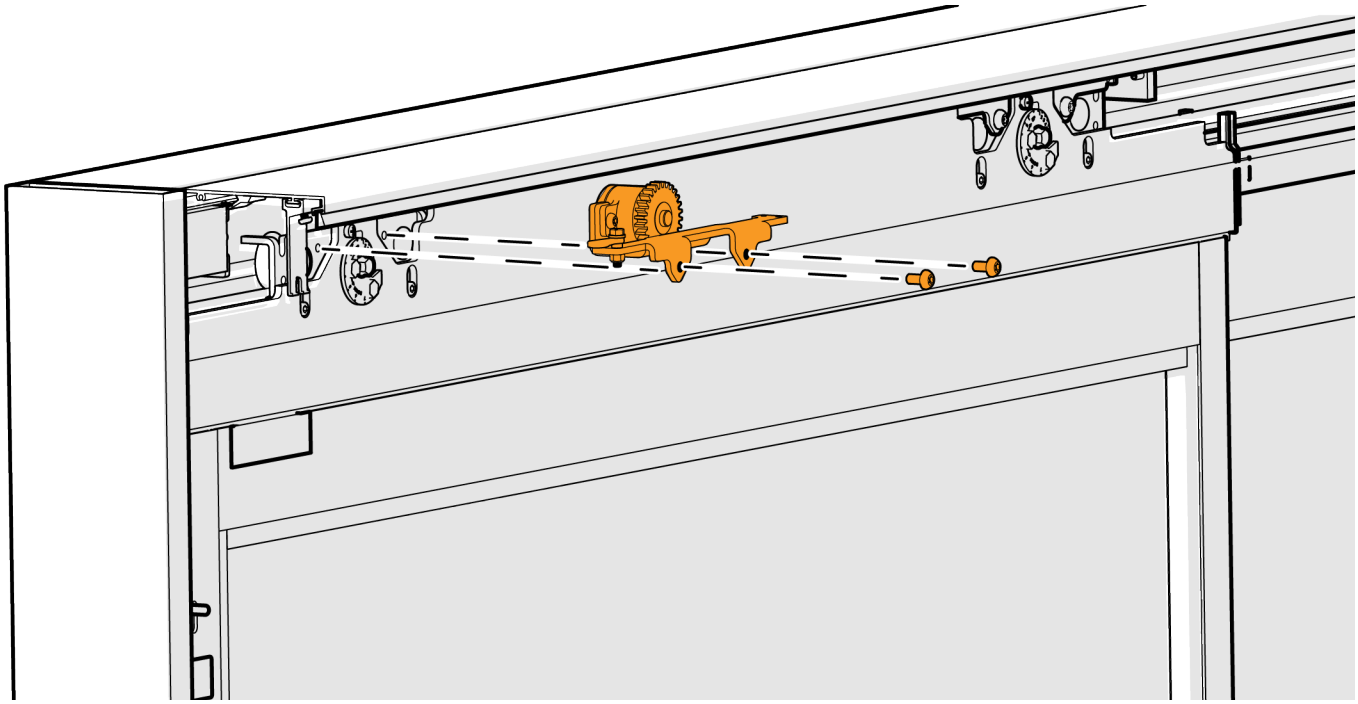
- Move the Rack Gear away from the Spring Unit to disengage the Speed Control Damper earlier and allow the door to increase closing speed at the end of the door closing cycle. This can help when the momentum of the door is too slow to allow it to fully close.
- Move the Rack Gear closer to the Spring Unit to keep the Speed Control Damper engaged with the Rack Gear longer, maintaining control of the closing speed as the door closes to the jamb. This can help maintain a steady speed on a door that closes too quickly.
- Increase the tension in the Speed Control Damper to slow the closing speed by adding resistance to the door movement. This is a good option for doors that close too quickly.
- Decrease the tension in the Speed Control Damper to reduce resistance and allow an increase in door closing speed.
- Decrease spring tension in the Spring Unit to allow the door to open and close with less force. For systems with Positive Latch, it is important to maintain some spring tension to overcome latch kick.

**CAUTION**

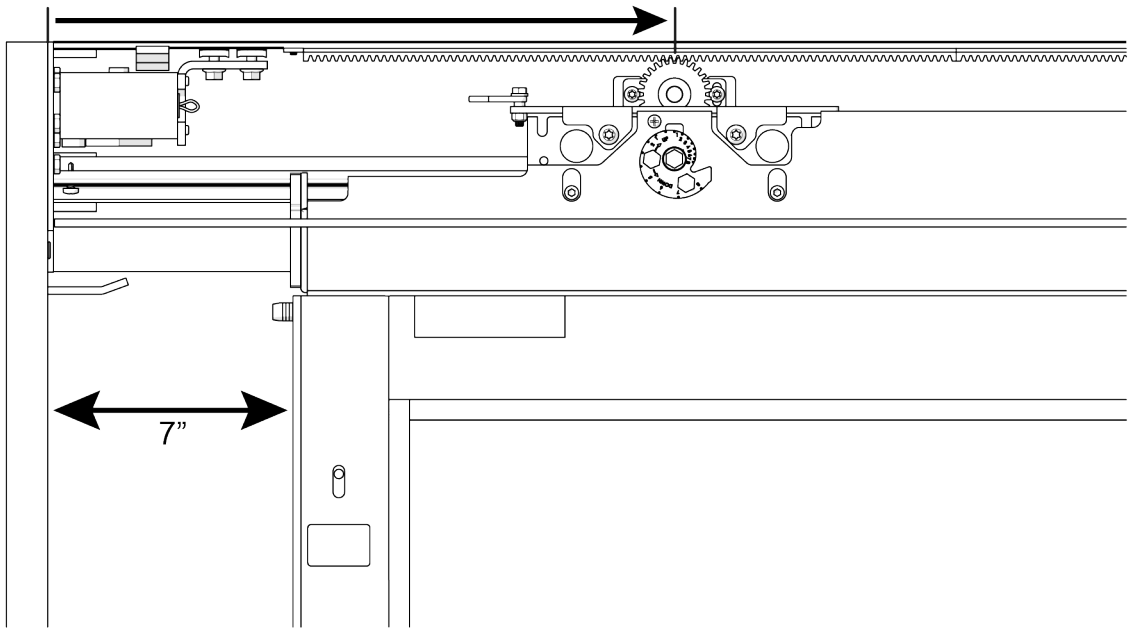
**If all other remedies have been attempted and the door still does not have enough spring tension to overcome latch kick and fully close, increase spring tension in the Spring Unit only as a last consideration. Any increase in spring tension will make it more difficult to open the door.**

**Procedure**

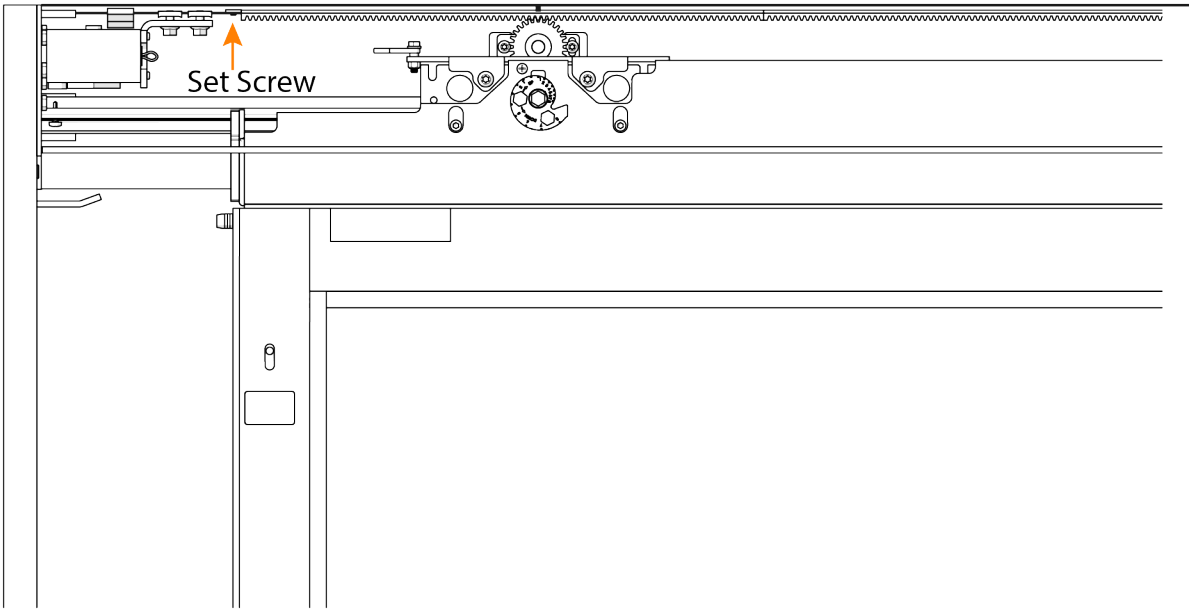
1. Verify that the door manually closes with no interference.
2. Install the Speed Control assembly to the leading wheel bracket of the carrier using the provided M6 x 12 Torx screws.

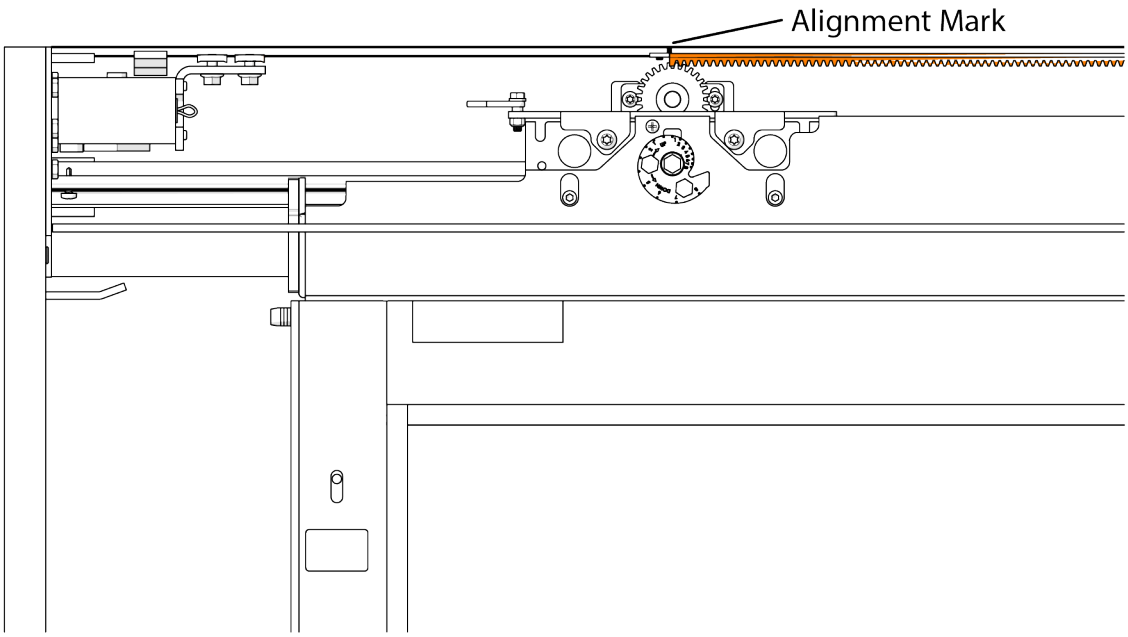


3. If the door system includes the optional positive latch, perform the following steps to reposition the Rack Gear. If the door system does not include the optional positive latch, then the rack gear can remain in its current position for now.
4. For doors with the optional positive latch, open the door approximately 7”.
5. Mark the header at the center point of the Speed Control Damper.

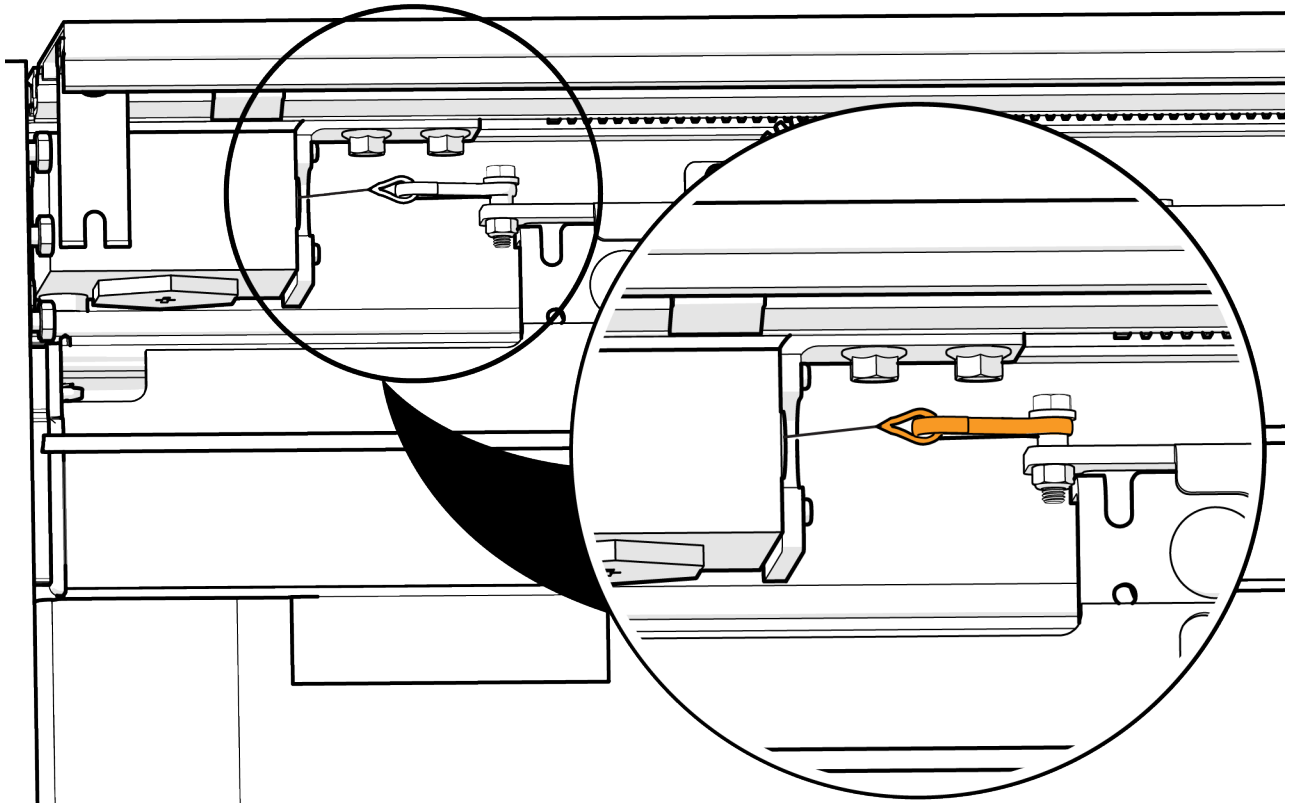


6. Loosen the set screws from each end of the Rack Gear and slide the Rack Gear until the edge aligns with the mark that was previously made and then tighten the set screws.

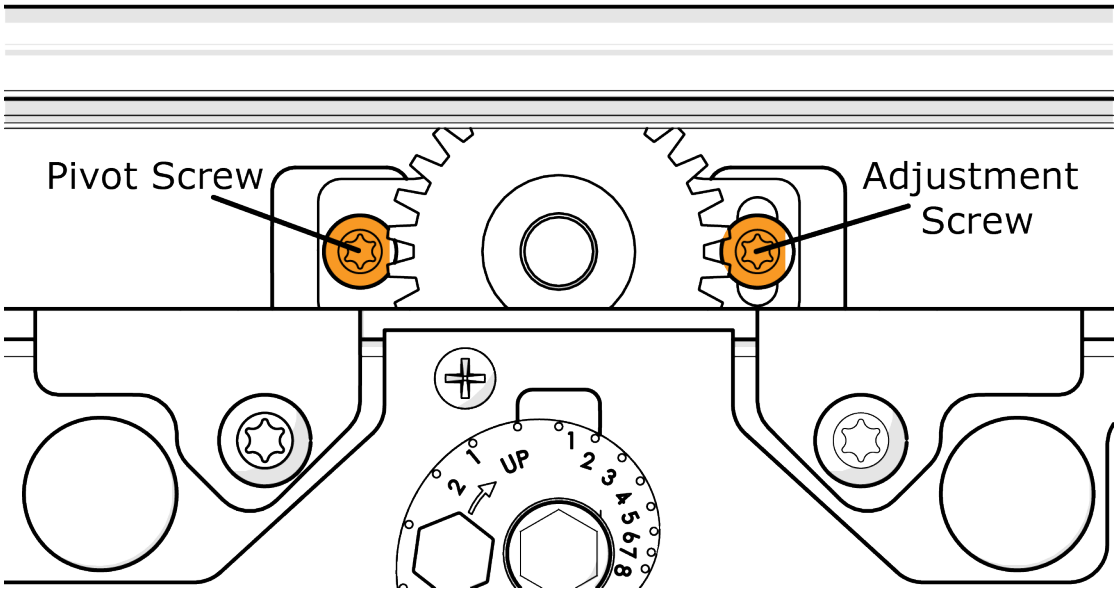


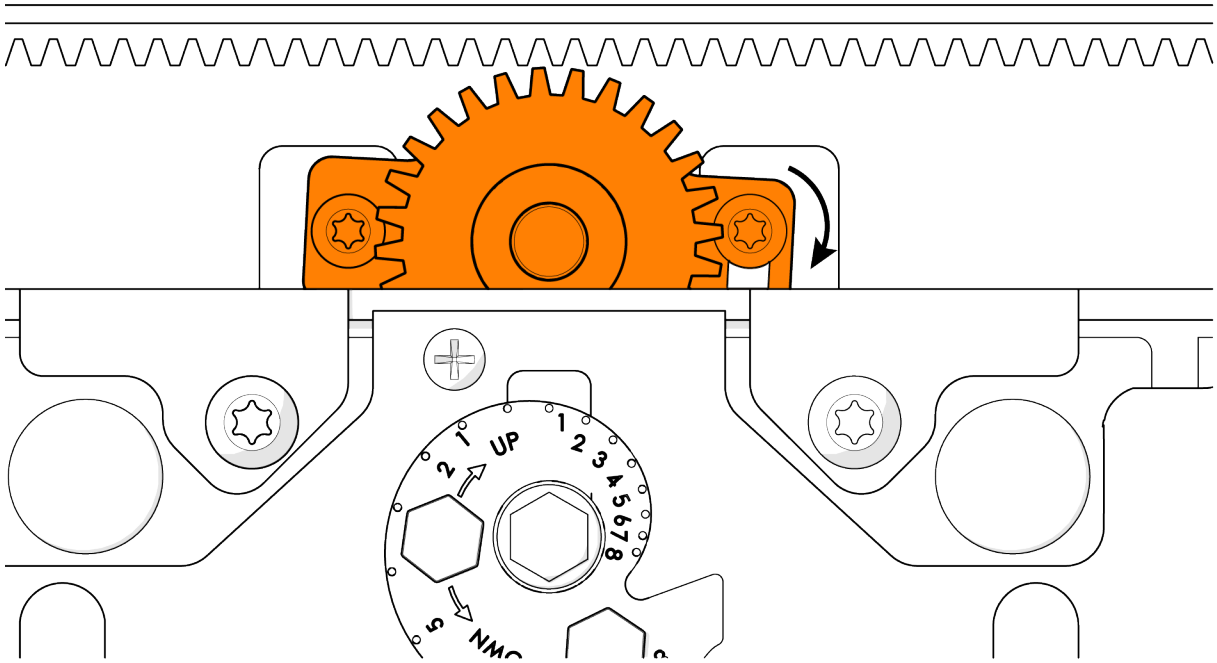
7. Attach the cable loop to the attachment clip.



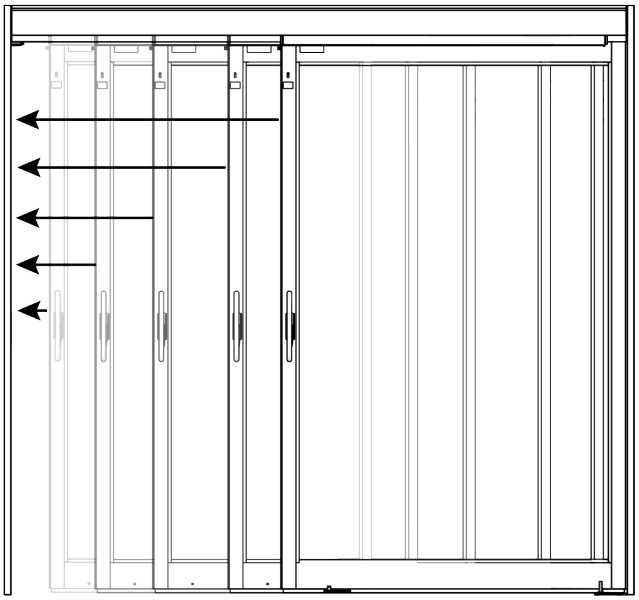
8. With the active leaf closed and the header cover open, loosen the pivot screw and the adjustment screw.



9. Rotate the Speed Control Damper clockwise until the gear teeth disengage from the Gear Rack.



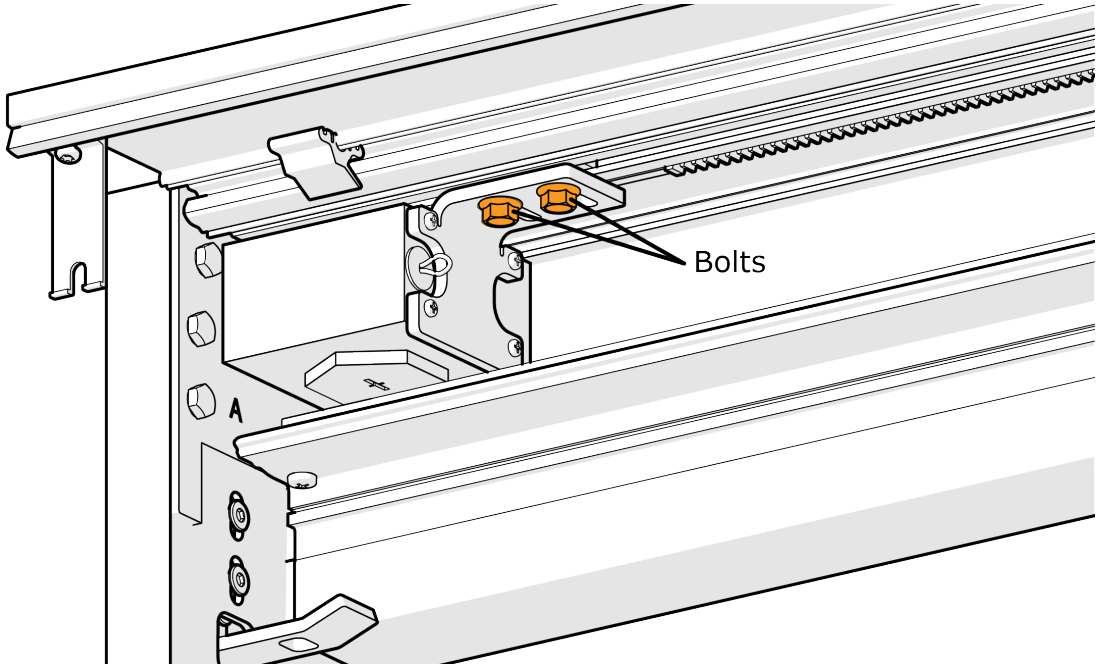

10. Test the door and verify that the door fully closes with spring tension from various distances.



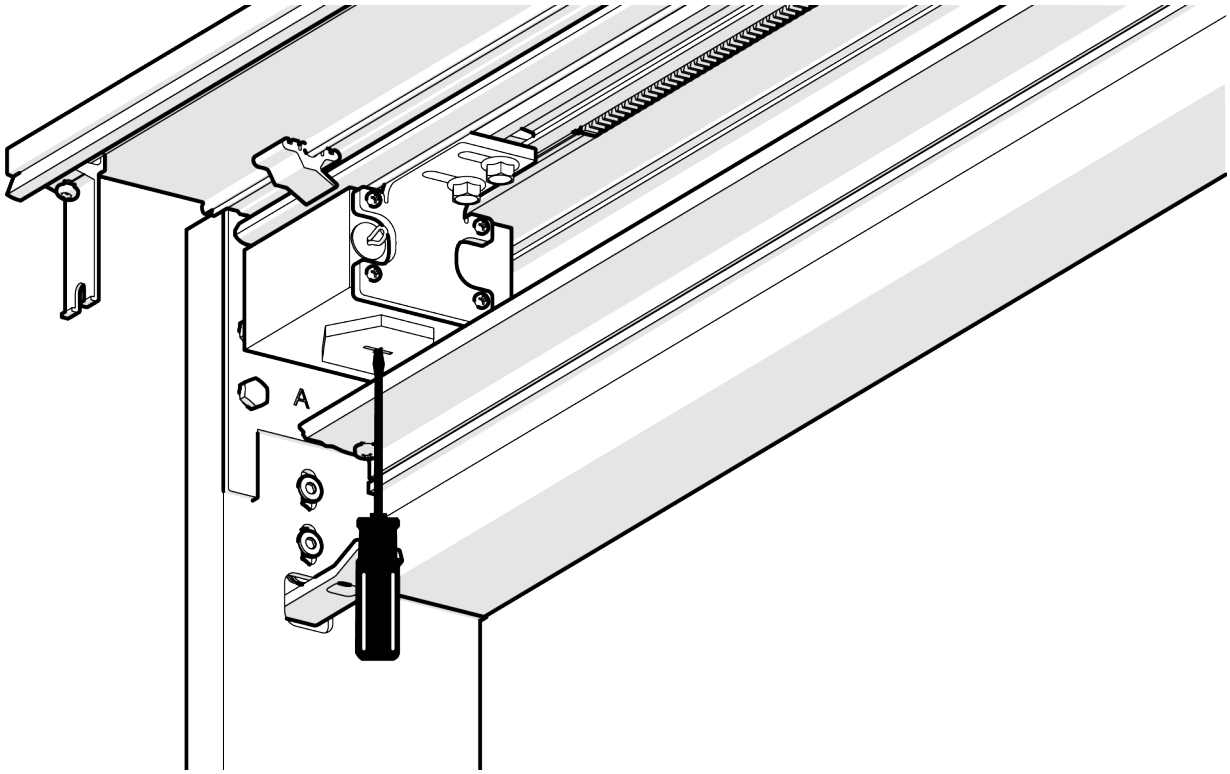
**NOTICE**

**If the door does not close all the way, increase the Spring Unit tension.**

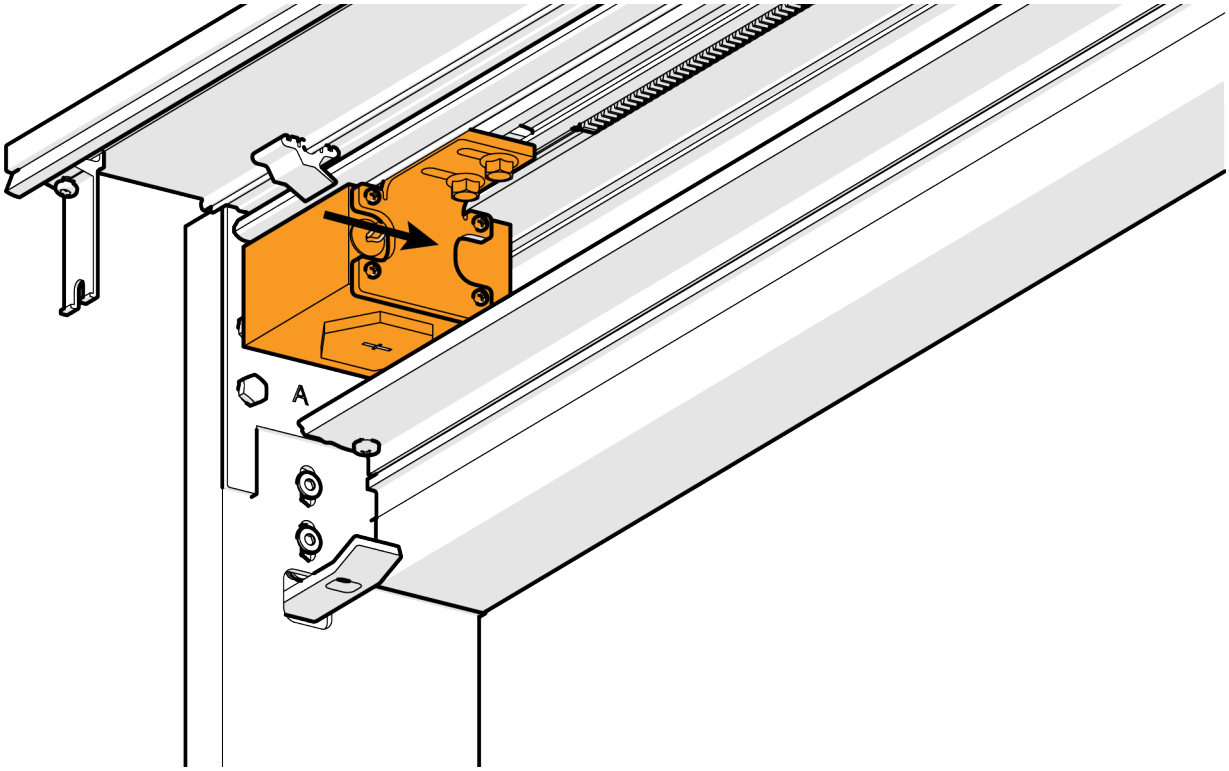
11. If the door does not fully close, loosen the spring unit mounting bolts and pull the spring unit out enough to access the adjustment screw underneath.



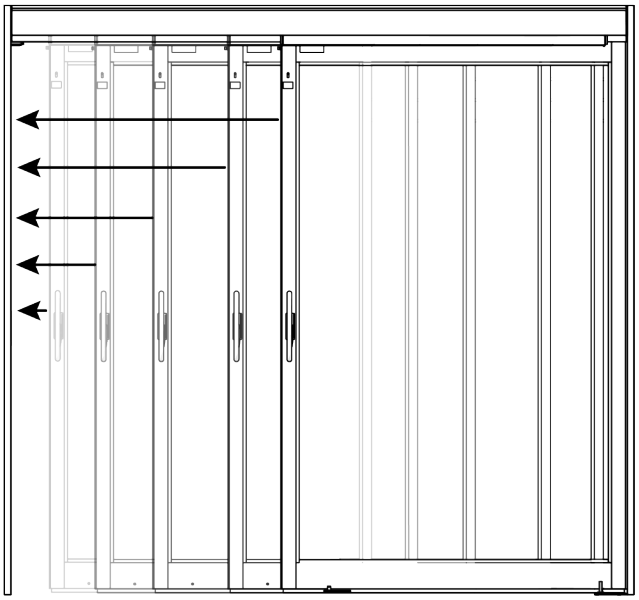

12. Using a screwdriver, adjust the spring tension.



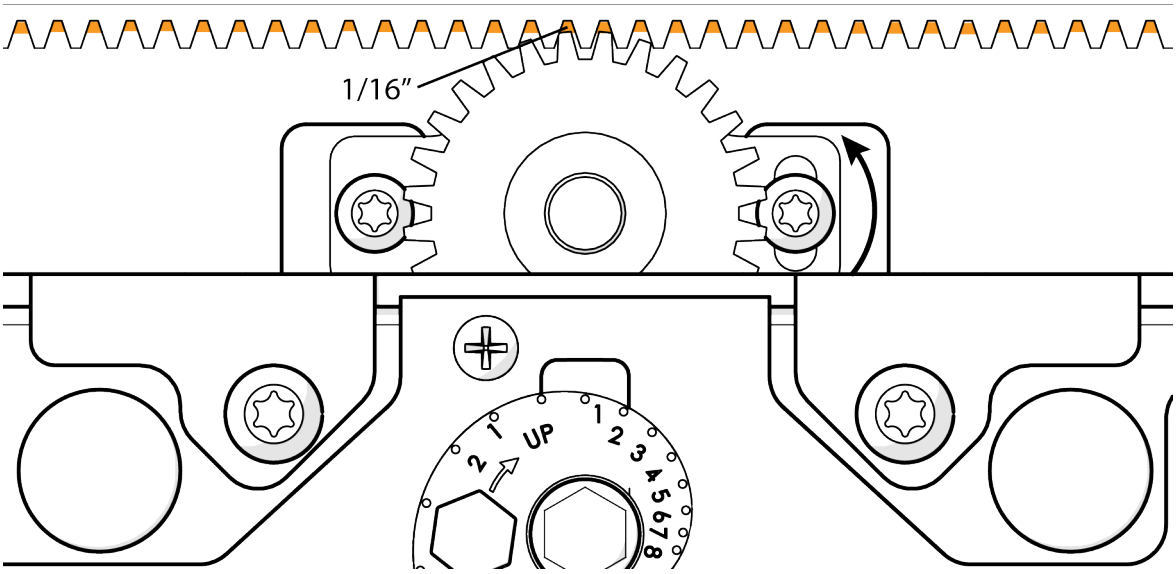
13. After adjusting the tension, reposition the spring unit to its original position and tighten the bolts.




14. Test the door closure again and verify that the door fully closes with spring tension from various distances.



15. Rotate the speed control assembly to properly align the gears to the rack in the header.

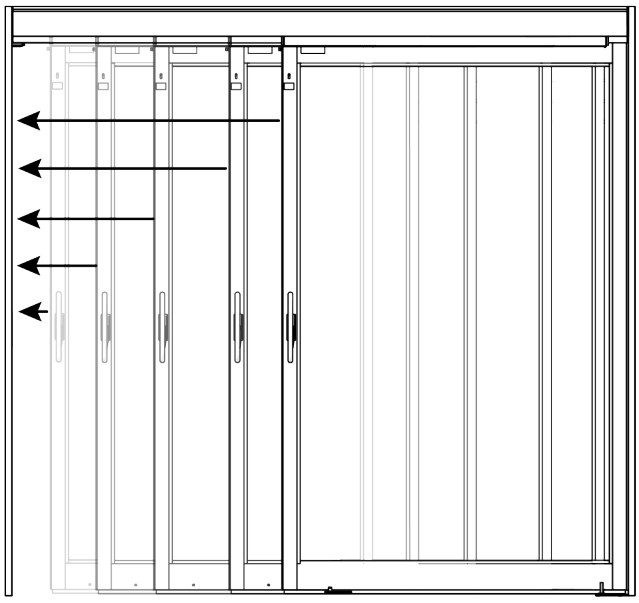



## NOTICE

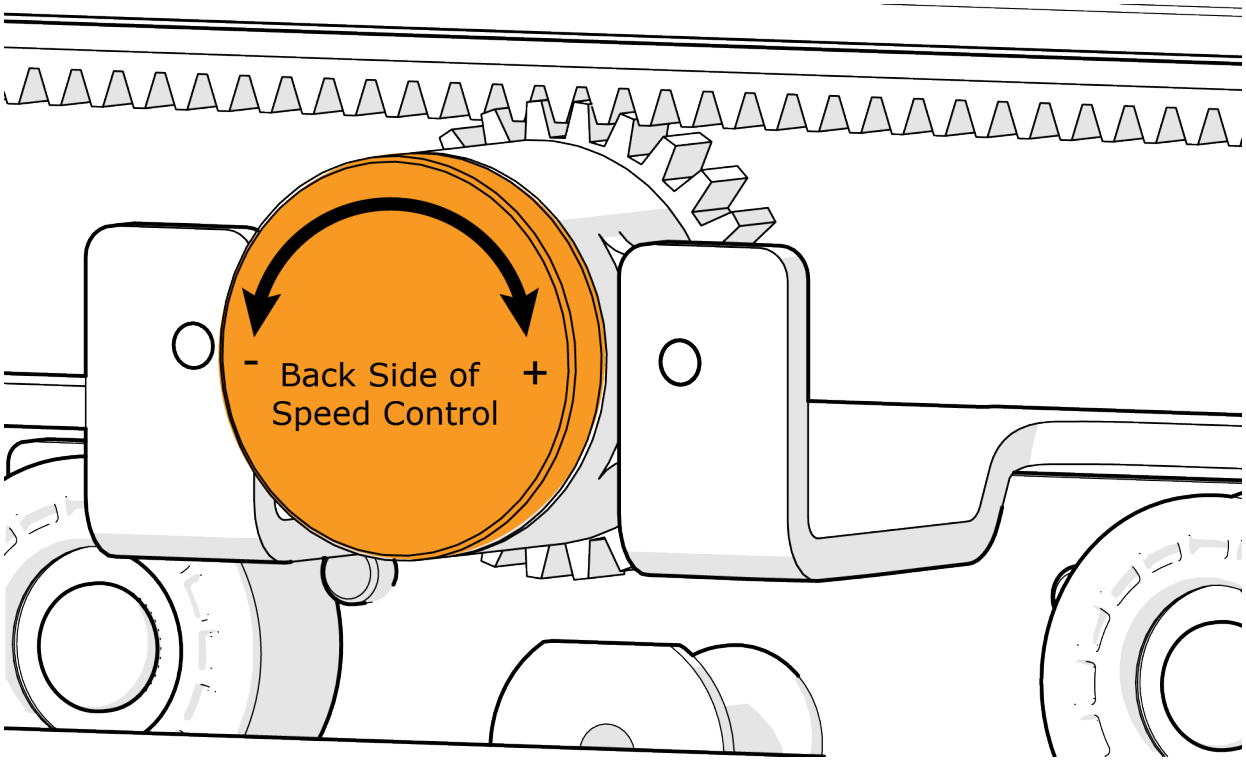
**There should be a 1/16" gap between the top of the speed control teeth and the gear rack.**

16. Tighten the pivot and adjustment screws.

17. Test the door closer from various positions of openness. The door should close and latch from all positions without slamming shut. If the door does not fully close or closes too quickly, continue with the following steps.



18. To increase or decrease the closing forces, rotate the speed control wheel either clockwise or counter-clockwise to increase or decrease damping.

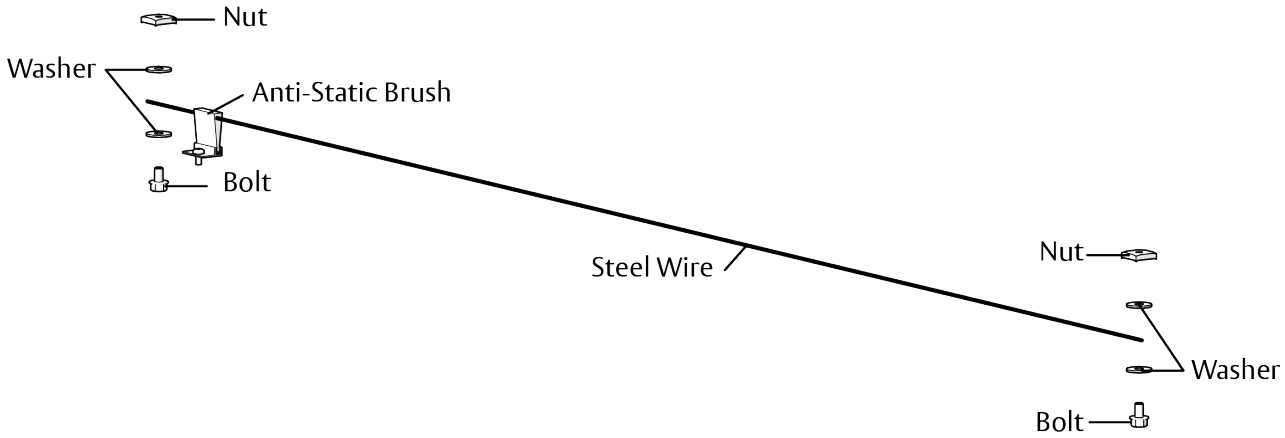


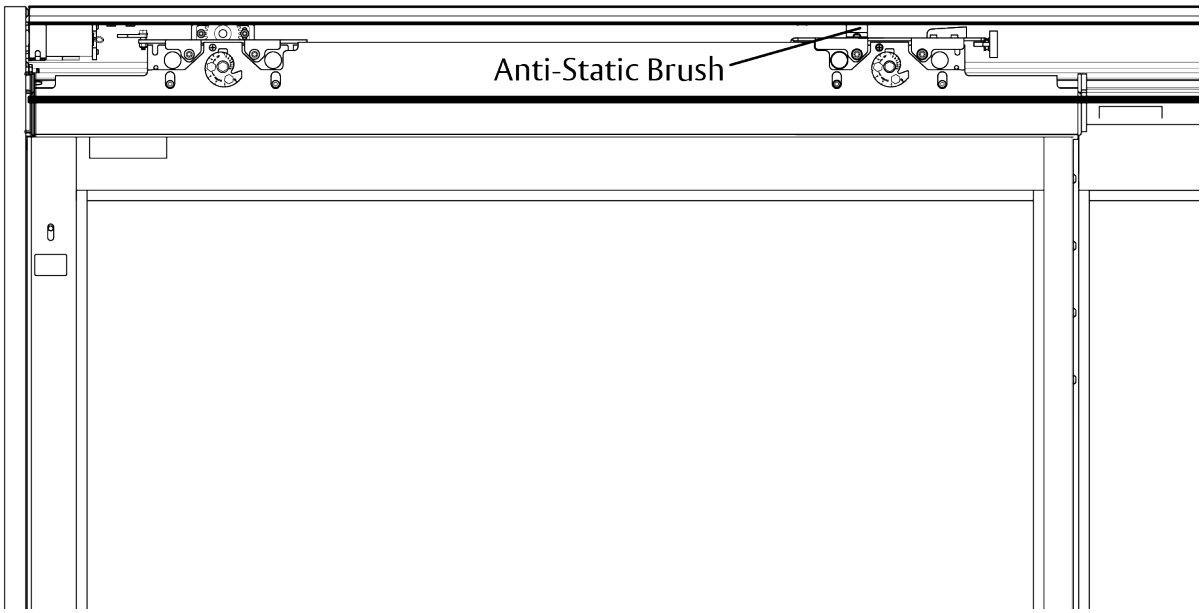

## NOTICE

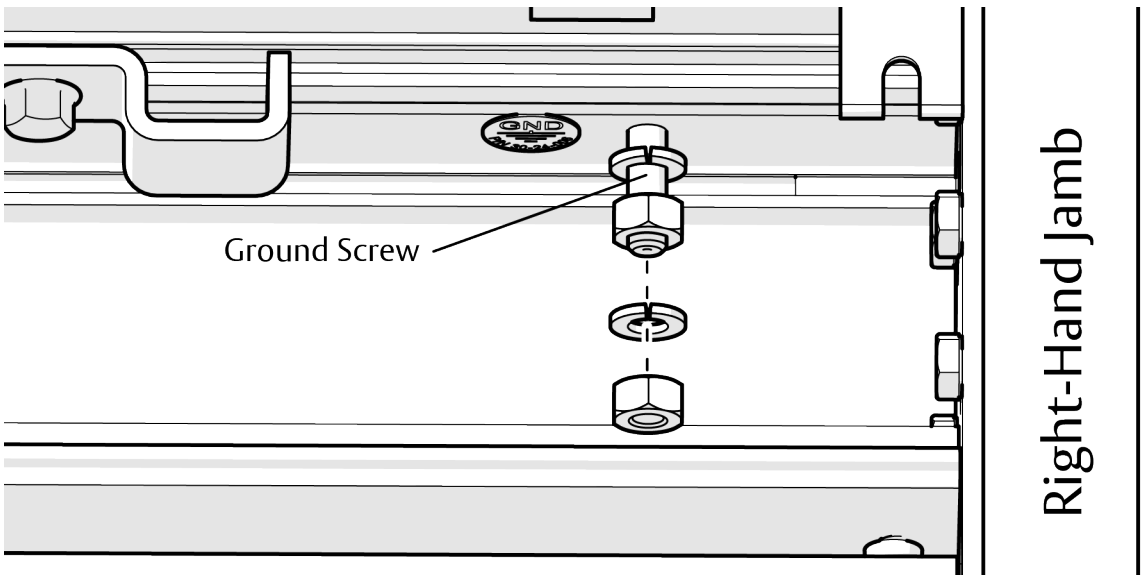
**If more adjustment is needed after maximizing the adjustment properties of the speed control, adjust the tension of the spring unit.**

## 6.5.3 Anti-Static Brush Installation

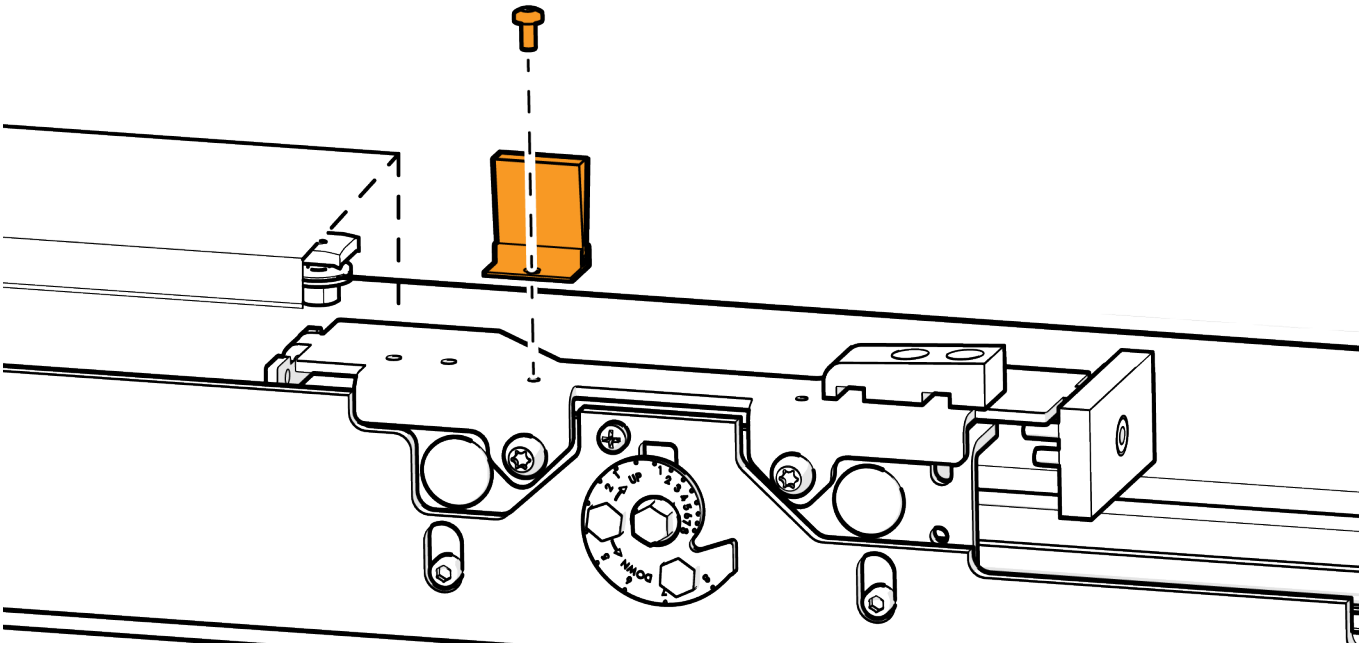
The anti-static system includes a ground screw mounted in the header on the right-hand side. It also includes a factory-installed steel wire with which the anti-static brush makes contact. The anti-static brush must be installed and the system should be grounded by connecting a ground cable to the ground screw.



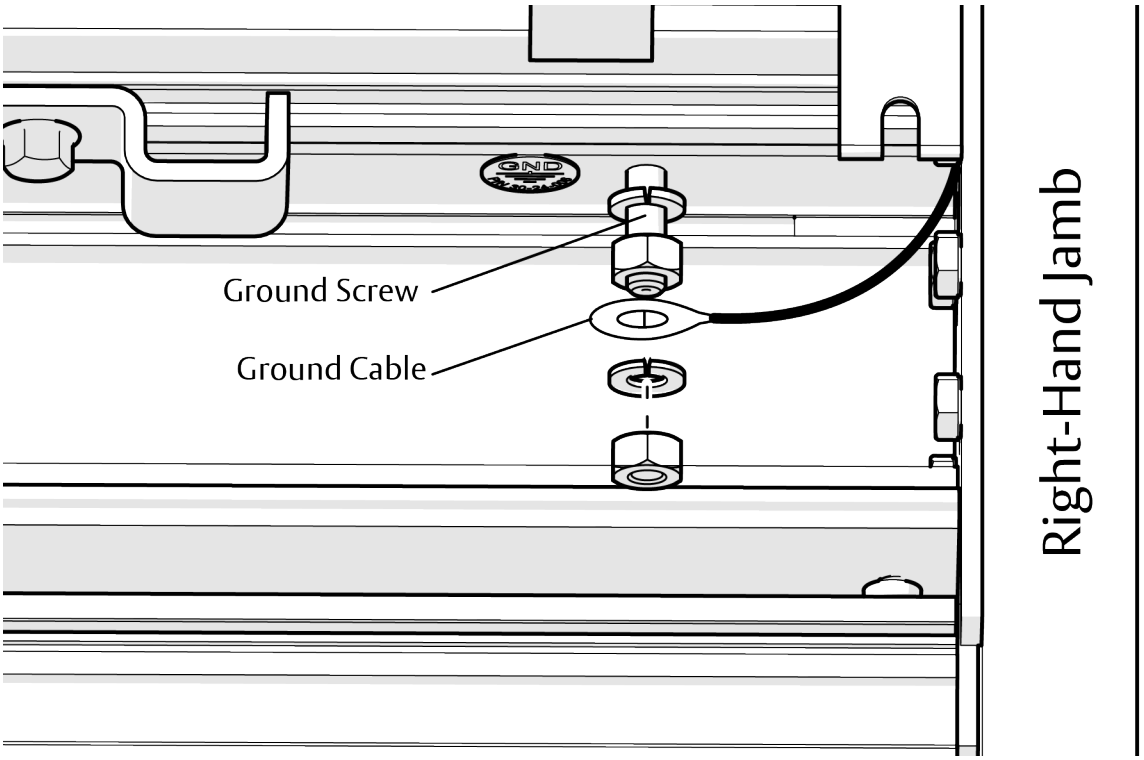



1. Install the anti-static brush to the trailing edge carrier using the included screw.



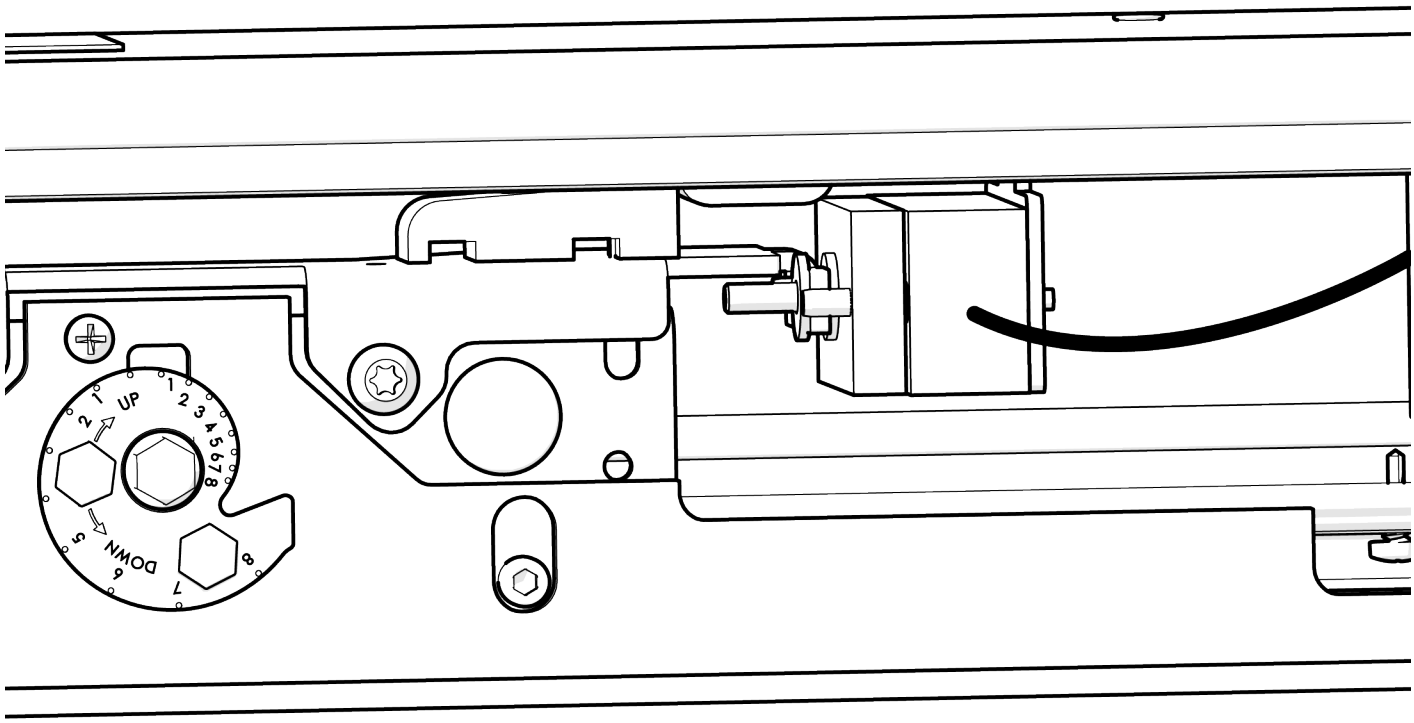
2. Connect the grounding cable to the ground screw as shown below using the supplied nut and washer.



## 6.5.4 Magnetic Hold-Open

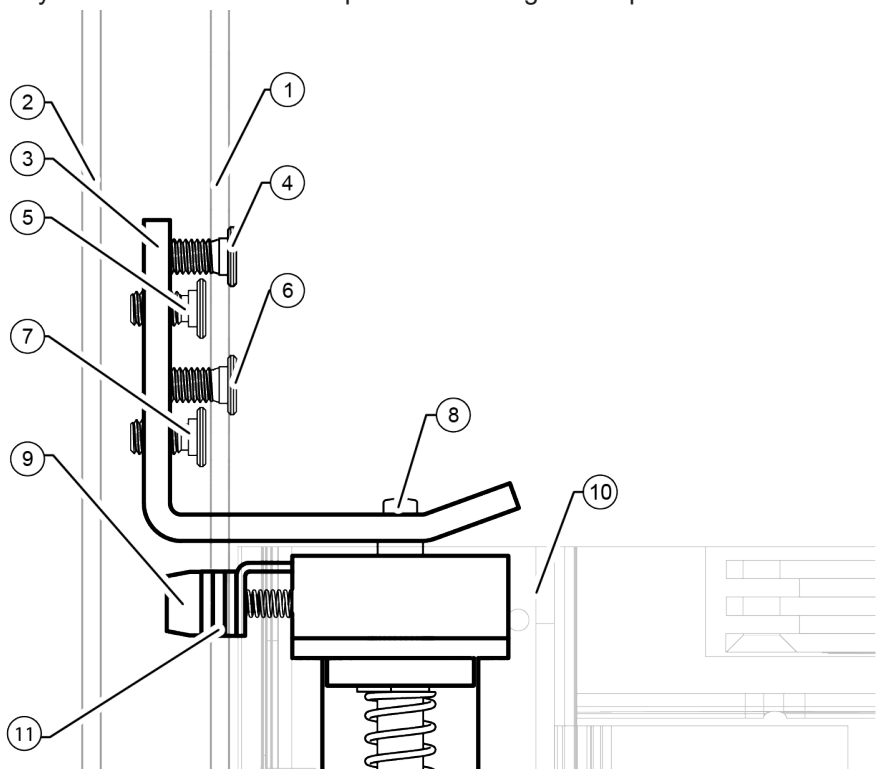
The magnetic hold-open option is factory installed in the header.

1. Connect the appropriate power and ground service to the magnetic hold-open powered magnet.



## 6.5.5 Positive Latch Installation

The optional Positive Latch system should be installed prior to installing other options.

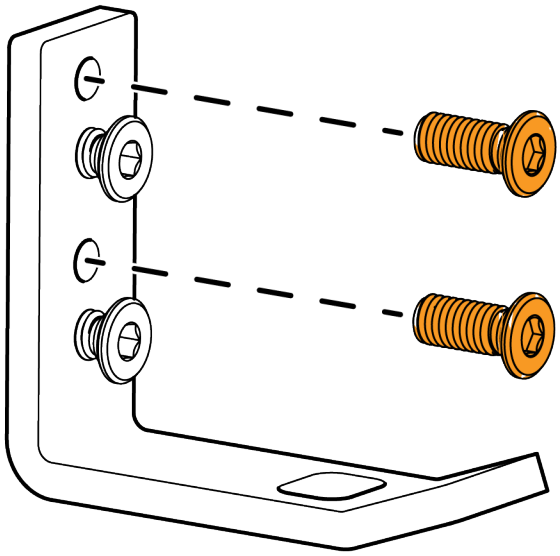



| | Description |
|---|---|
| 1 | Inner Jamb Face |
| 2 | Outer Jamb Face |
| 3 | Strike Bracket |
| 4 | Up/Down Strike Bracket Adjustment Screw |
| 5 | In/Out Strike Bracket Adjustment Screw |
| 6 | Up/Down Strike Bracket Adjustment Screw |
| 7 | In/Out Strike Bracket Adjustment Screw |
| 8 | Positive Latch Locking Pin |
| 9 | Positive Latch Release Button |
| 10 | Active Leaf Panel |
| 11 | Adjustment Shims |

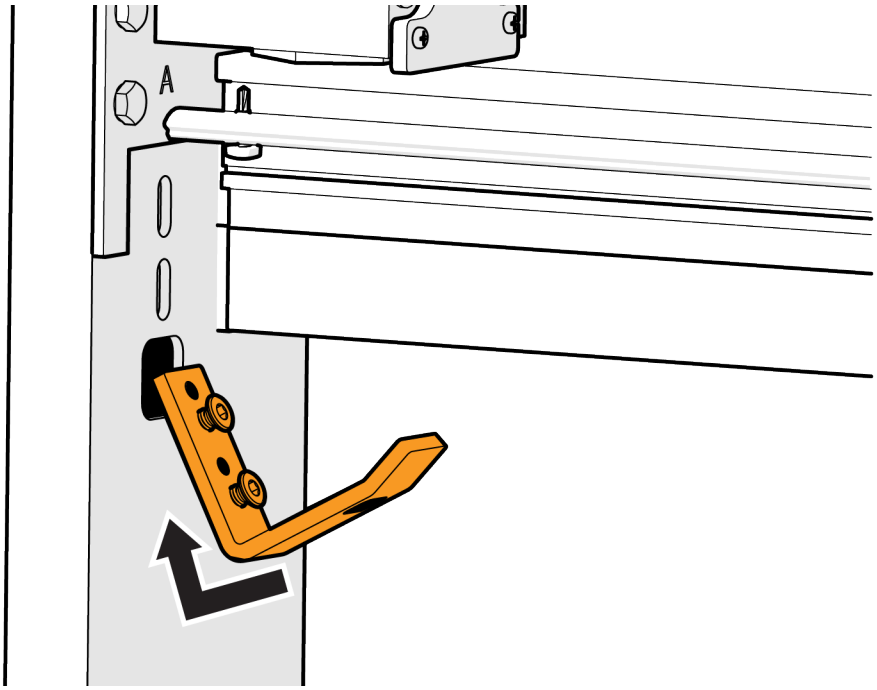
**NOTICE**

**The positive latch Release Button (9) has shims (11) that can be added or removed to adjust the door position when the pin contacts the jam to activate the locking pin.**

1. Remove the Up/Down strike bracket adjustment screws from the strike bracket.



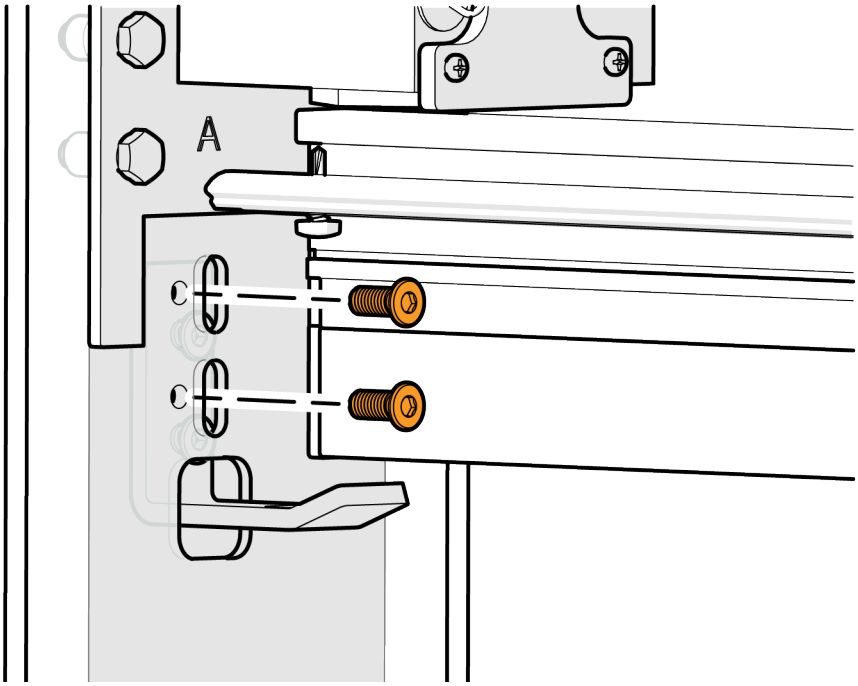
2. Insert the strike bracket into the hole in the face of the jamb and rotate it.



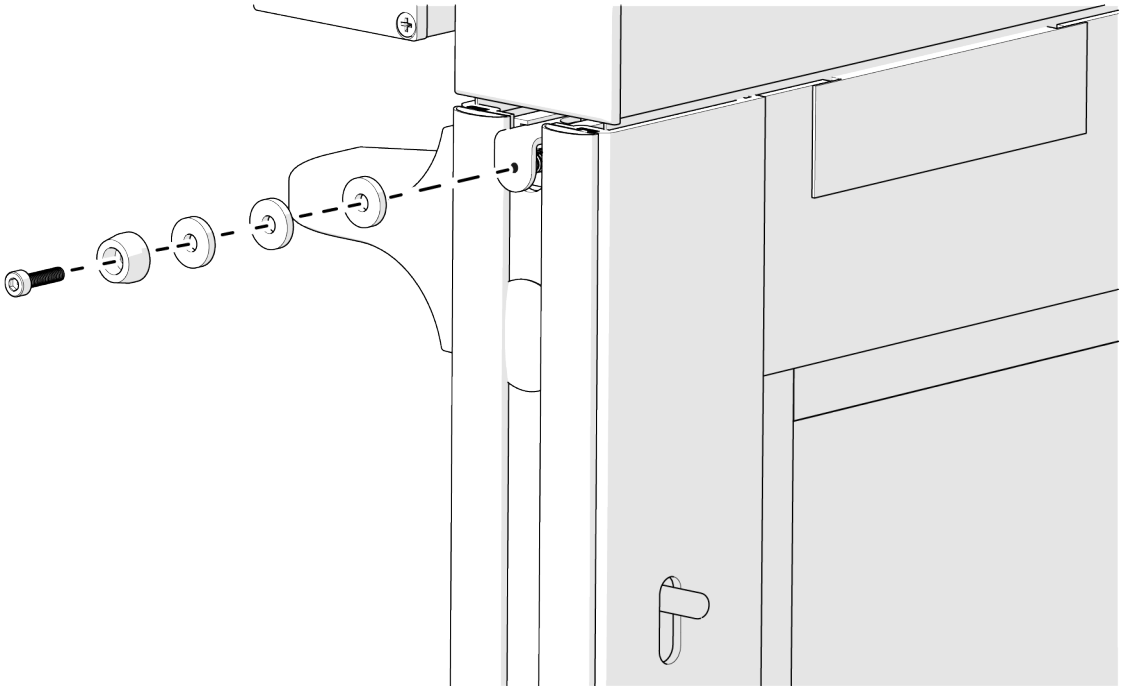
3. Secure the bracket into the jamb with the original hex head screws.

## NOTICE

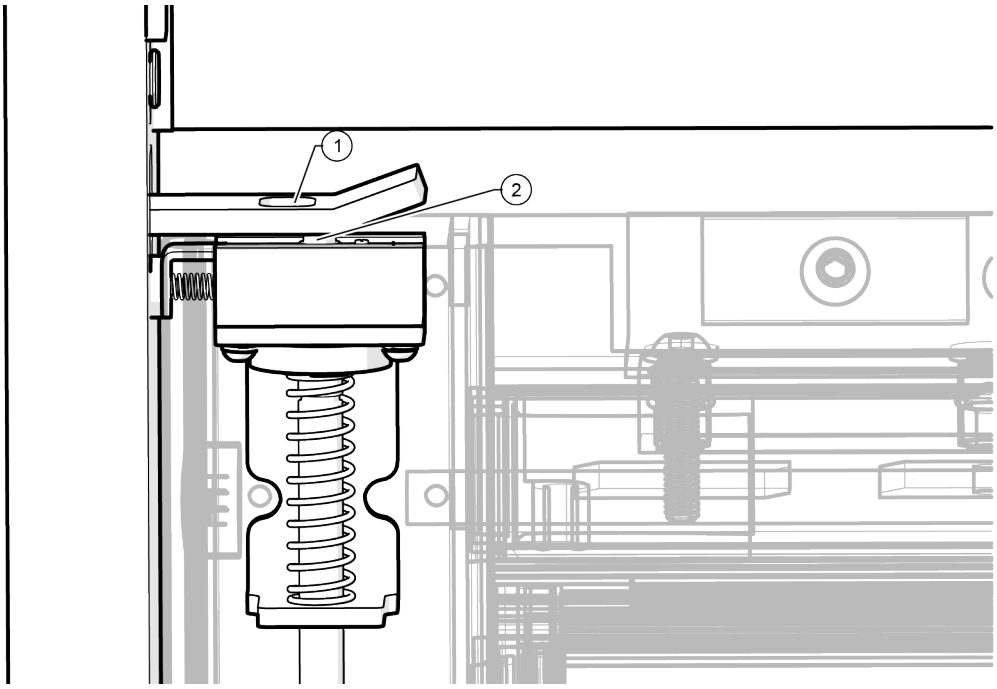
**Use a 4.0 mm Allen wrench to tighten them.**




4. Close the door and verify that the door seals rest against the jamb. If there is a gap between the door seals and the jamb, remove shim washers from behind the positive latch release button.

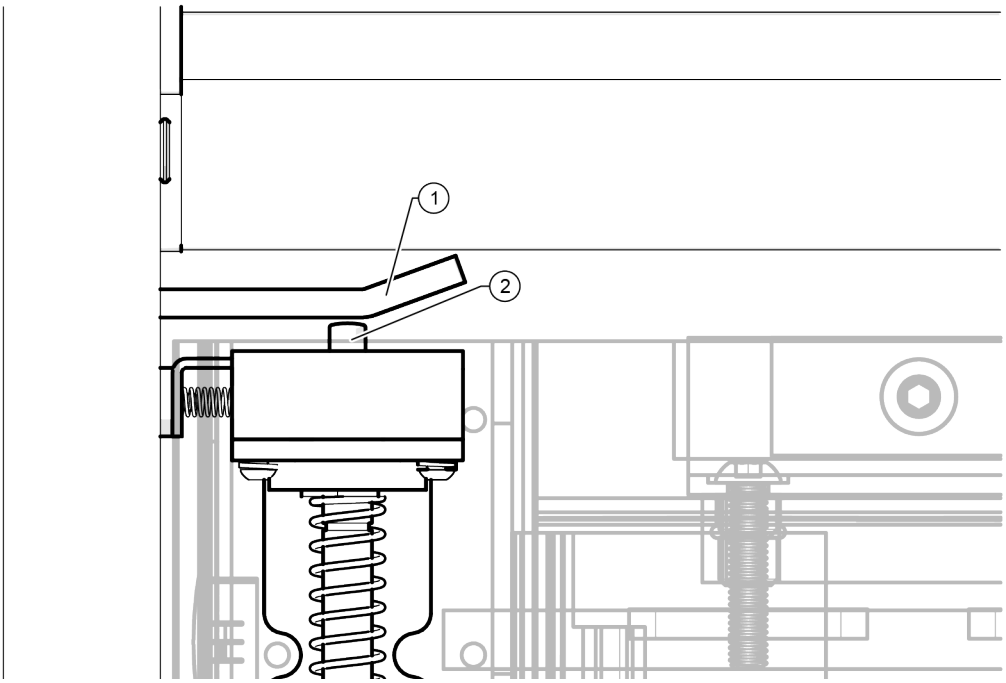


5. Slowly close the door panel while watching how the strike interfaces the strike bracket. If the strike (2) does not reach the hole (1) in the strike bracket, the bracket will need to be adjusted.




## NOTICE

**In the image above, the bracket will need to be adjusted towards the active leaf panel.**

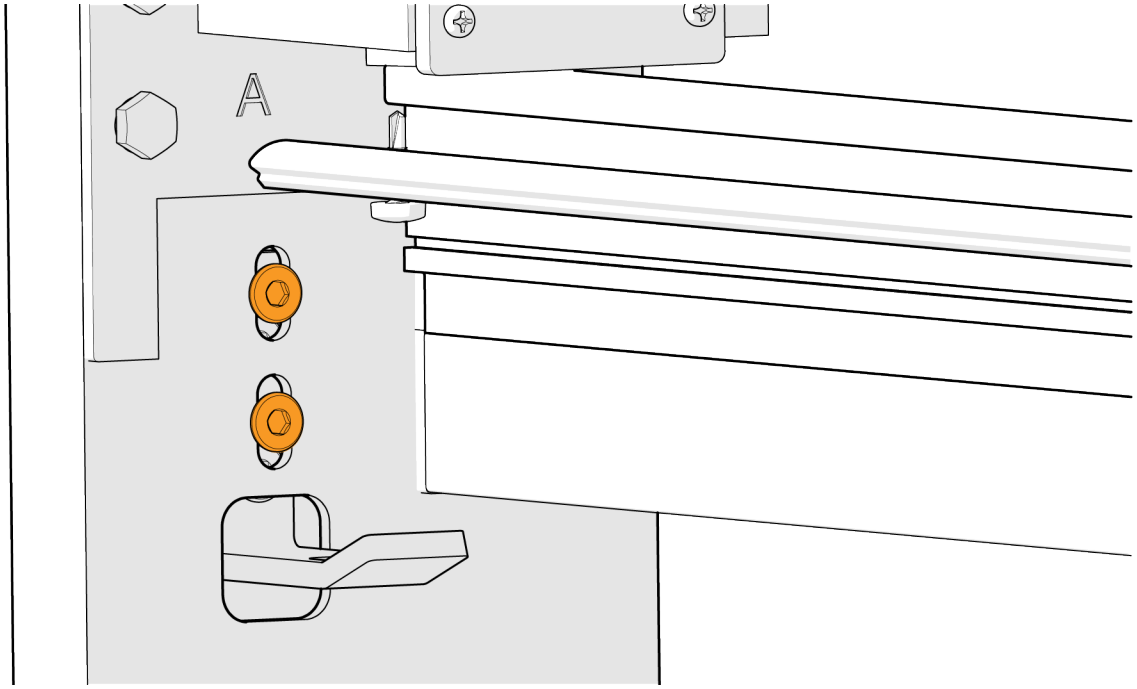



## NOTICE

**In the image above, the bracket (1) will need to be adjusted down because the strike (2) cannot reach it.**

## Adjusting the Strike Bracket In or Out

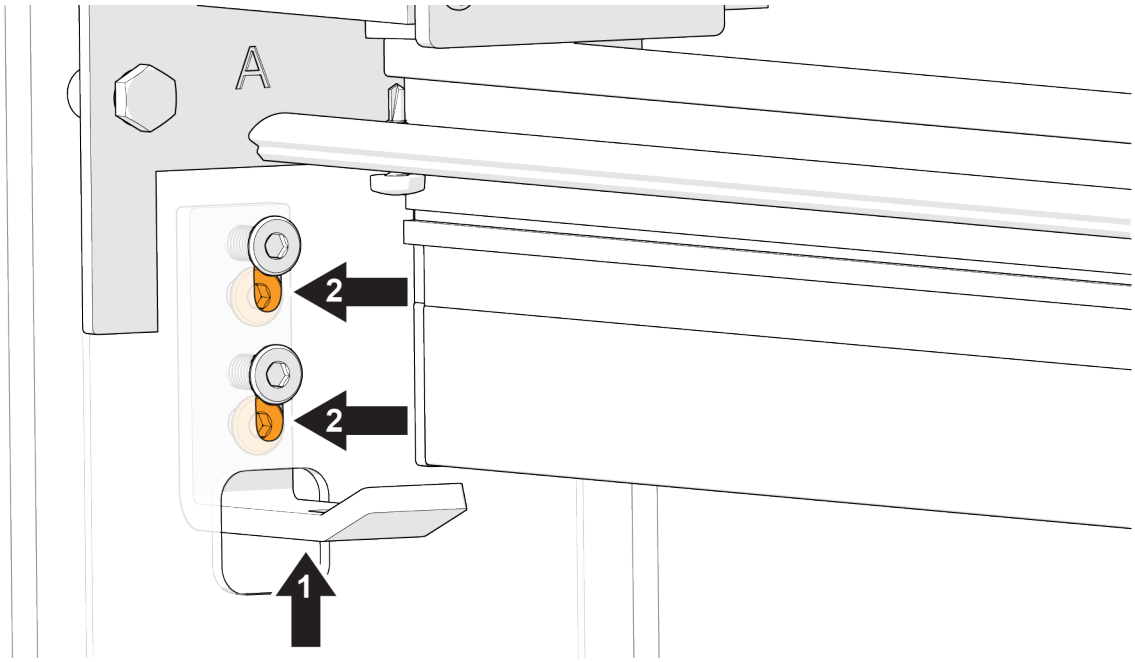
1. To adjust the strike bracket forwards (towards the active leaf) or backwards (into the jamb), loosen but do not remove the two screws securing the bracket to the jamb.




2. Lift the strike bracket (1) to access the adjustment screws (2) through the slots in the jamb. Tighten the screws with a 4mm Allen wrench to move the bracket out towards the active leaf panel. Loosen the screws to move the bracket further into the jamb.

**NOTICE**

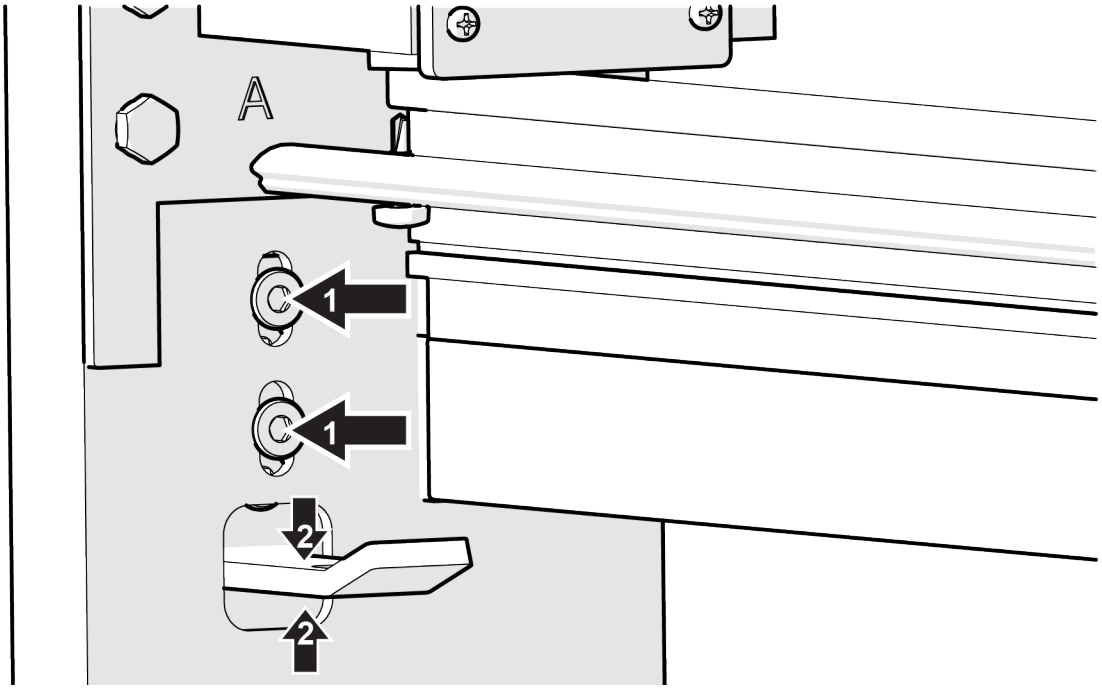
**Be sure to adjust each screw the same number of rotations so that the bracket remains level.**




3. Reposition the bracket and tighten the bracket screws and verify that the strike goes into the hole in the strike bracket.

**Adjusting the Strike Bracket Up or Down**

1. (1) Loosen both screws securing the strike bracket to the jamb and then (2) raise or lower the strike bracket as needed.

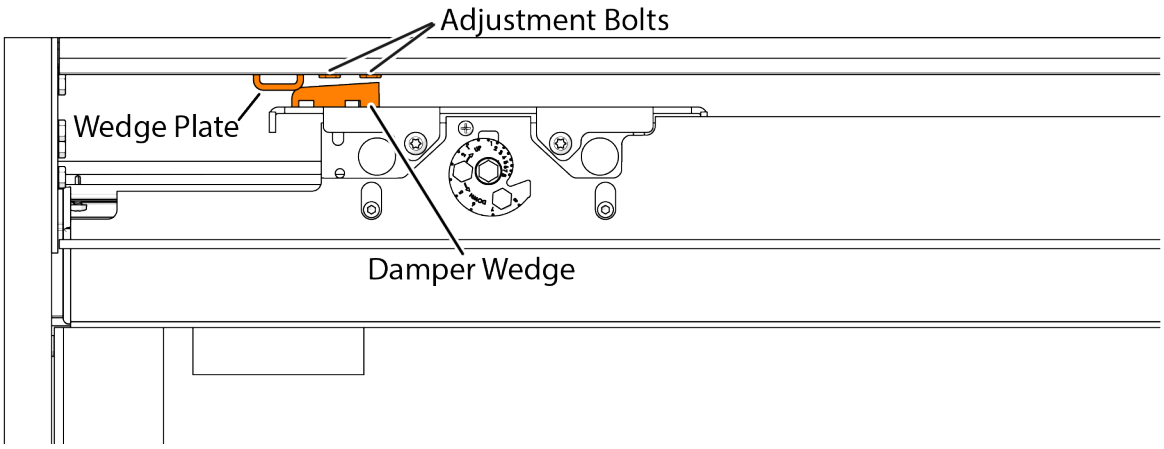



2. Tighten the screws after adjusting the bracket. Then test the active panel latching function.

## 6.5.6 Close Wedge Adjustment

Some door systems have the Close Damper Wedge option. This option is factory installed but adjustments can be made to alter the contact point where the Wedge Plate meets the Damper Wedge as the door closes. This option is intended to soften the closure of the door and hold it closed.

1. Loosen both adjustment bolts securing the Wedge Plate to the header and move it to the desired position.




2. Tighten the adjustment bolts to secure the Wedge Plate.

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