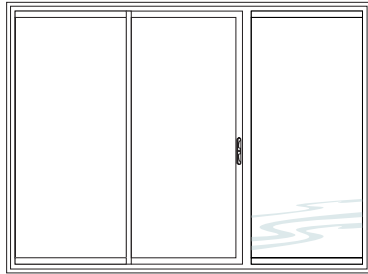
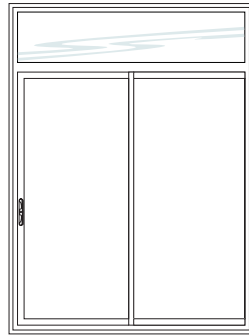


# 170 Sliding Patio Door available Styles

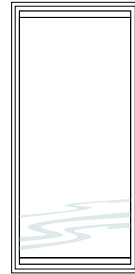
A-171



OXO Continuous Frame

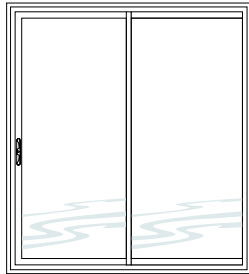


Continuous Frame Transom

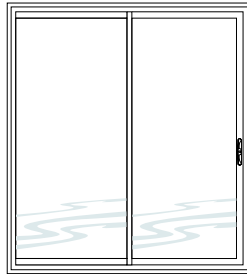


Sidelite

A-172

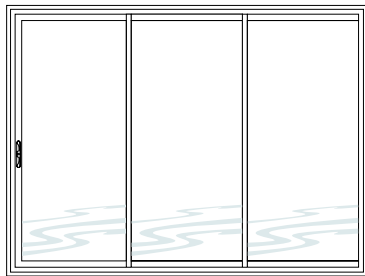


XO

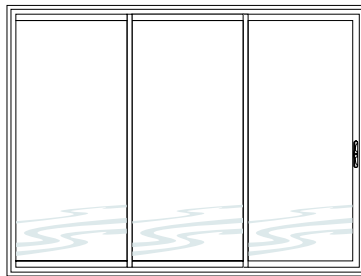


OX

A-173

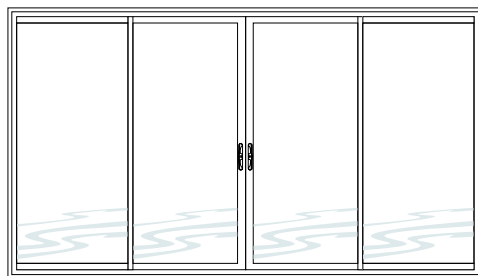


XOO



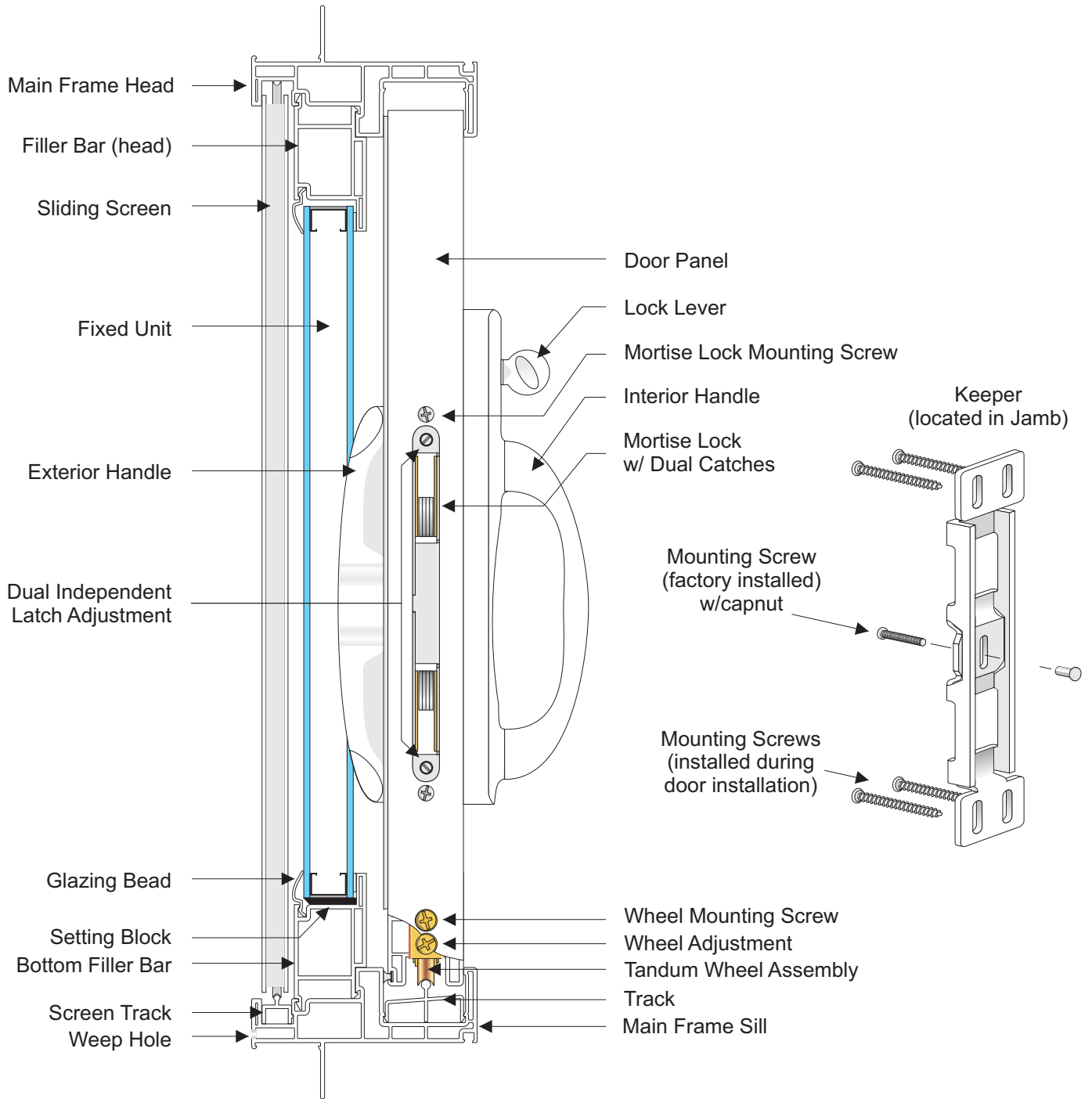
OOX

A-175

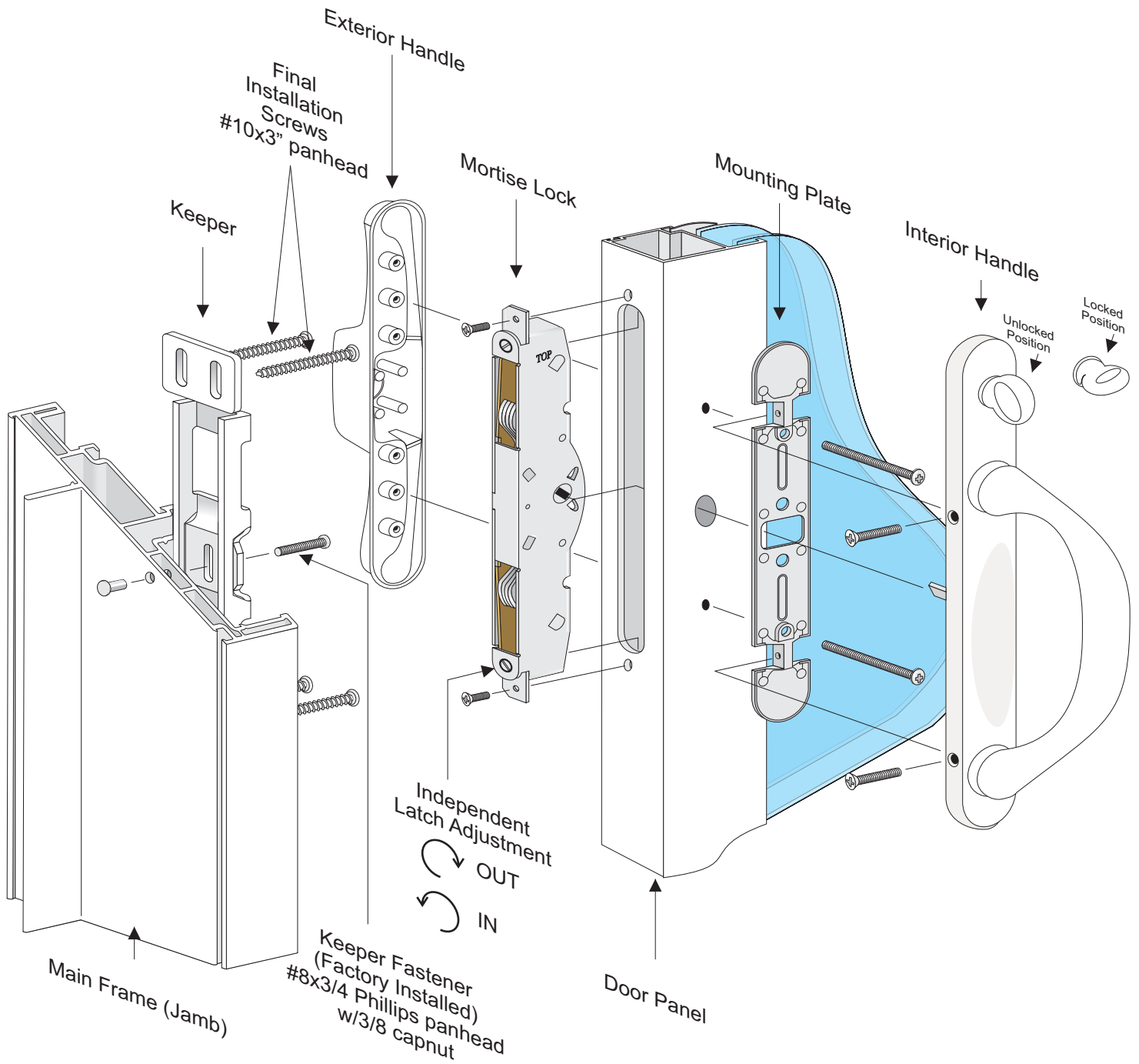


OXXO

# 170 Sliding Patio Door Component Identification

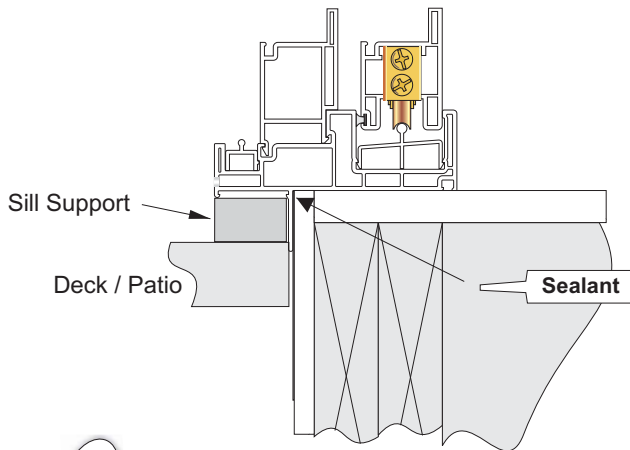


# 170 Sliding Patio Door Handle Hardware



# 170 Patio Door Installation guide

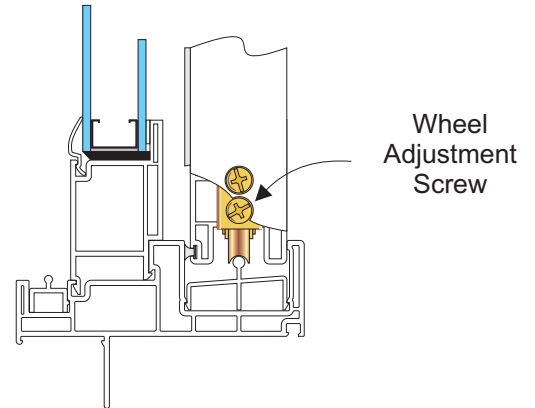
Damage to the door from failure to perform these steps could deny warranty service and void factory warranty.



1

## Sill Support

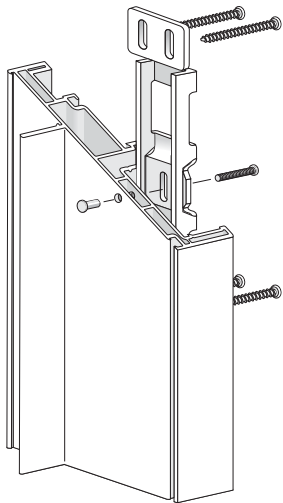
Provide support under the sill to sustain traffic. Lack of support could fracture the vinyl sill or cause sill sag, which can effect operation.



2

## Wheel adjustment

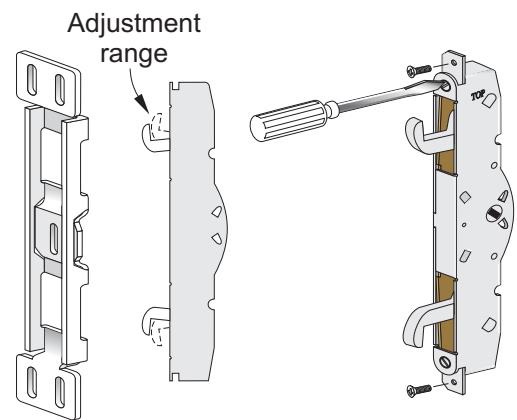
After the door is installed, make wheel adjustments if needed to align the panel with the strike jamb, to obtain an equal reveal



3

## Secure Keeper

The factory installed keeper is secured with a temporary fastener. Forced entry code requires the additional 3 inch keeper screws to be installed through the frame and into the rough opening. Provide a solid shim between the frame and R/O behind the keeper location. Make vertical adjustments to the keeper to align with the lock catch.

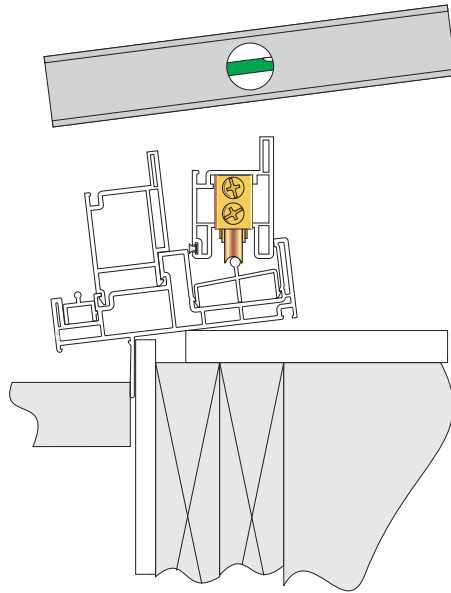


4

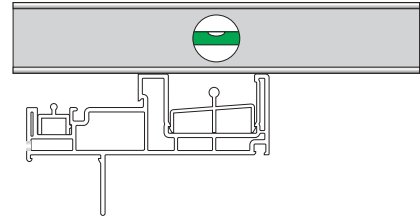
## Lock adjustment

In the locked position, make adjustments to both top and bottom adjustment screws. The catch hooks should engage the keeper with no more than 1/8" free play (panel movement left to right).

# Mis-installation conditions



**Level Sill**

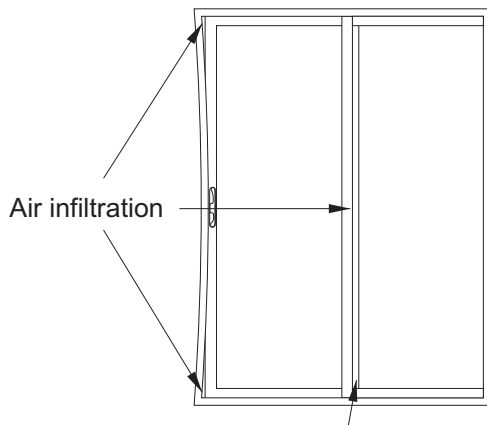


Place a level across the channel walls to check for roll-out or frame sag.

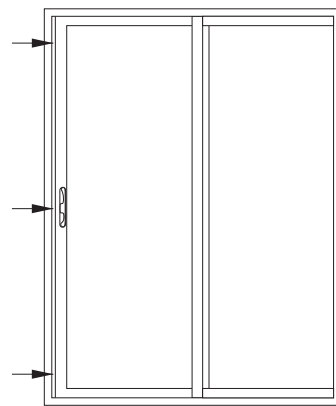
## Without Sill Support

- 1: Sill will roll out putting tension on all joints.
- 2: Panel weather-stripping does not seal to frame.
- 3: Traffic on sill flexes the frame, shorting the life of the door.
- 4: Movement of unsupported vinyl components causes squeaking and other friction related noises.

## Bowed Strike Jamb



Panel not fully interlocked

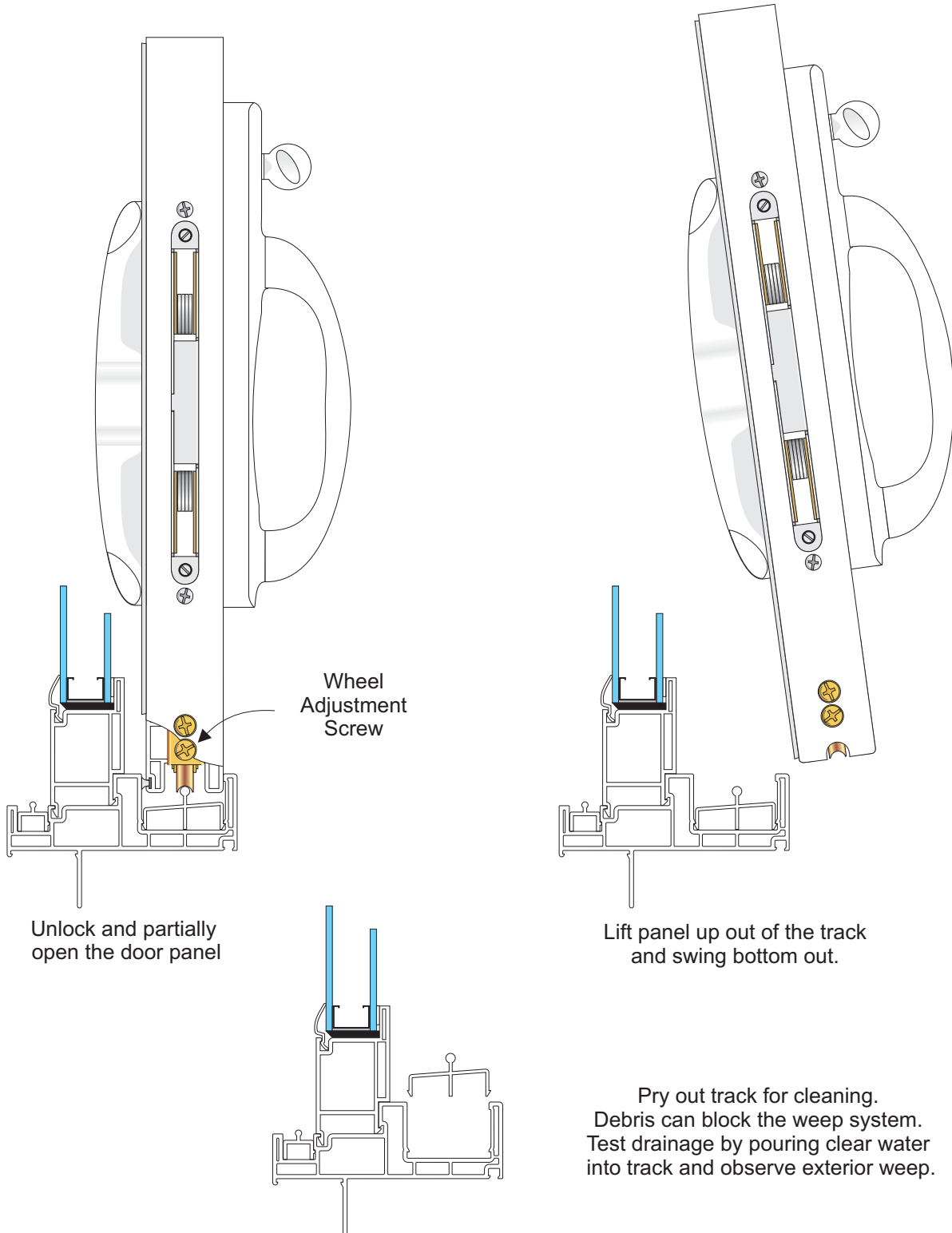


Secure strike jamb with equal reveal to the panel.

## Frame mis-installation

Main frame installation must be straight and square. The weight of the door placed in a rough opening can distort the frame sill without exterior sill support. The main frame strike jamb must maintain an equal reveal to the panel in order for the panel to reach full interlock and seal properly. Nail or secure the frame every 8 inches, including across the frame head.

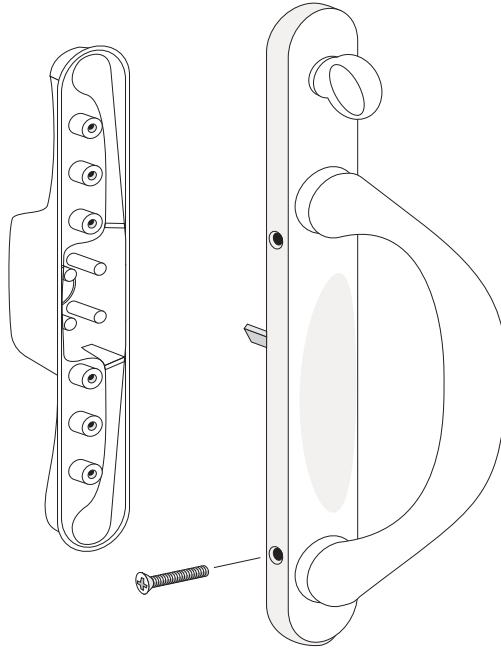
# 170 Sliding Patio Door Maintenance



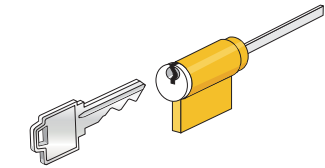
# 170 Sliding Patio Door

## Parts List

OUTSIDE HANDLE  
 WHITE - 101-9150S-WH  
 BH 272201  
 ALMOND - 101-9150S-BE  
 BH 272254  
 CLAY - 120-0241  
 BH 272251  
 BRONZE - 101-9150S-BRZ  
 BH 272292

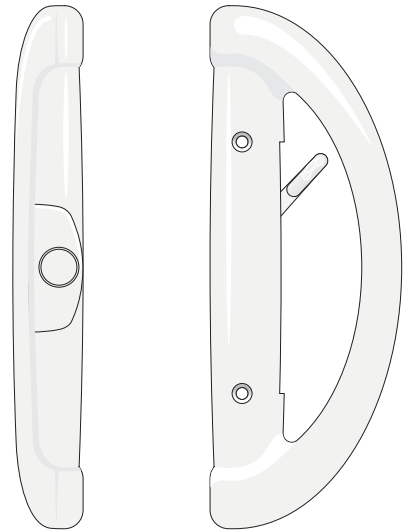
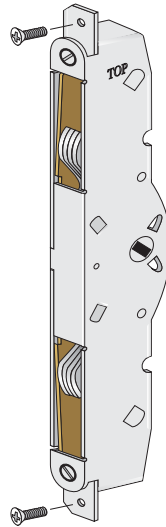


INSIDE RIGHT HANDLE (OX)  
 WHITE - 101-9151SR-WH  
 BH 272601  
 ALMOND - 101-9151SR-BE  
 BH 272654  
 CLAY - 120-0240  
 BH 272651



KEYED LOCK  
 KEYED DIFFERENTLY - BH171600  
 KEYED ALIKE - BH171700

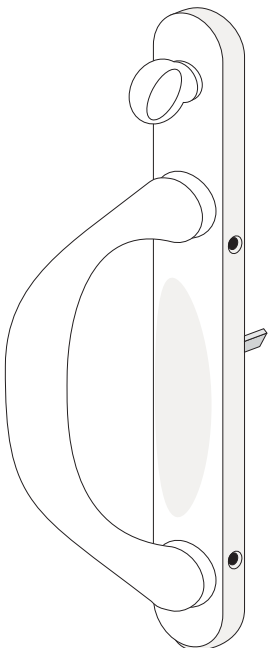
INSIDE LEFT HANDLE (XO)  
 WHITE - 101-9151SL-WH  
 BH 272101  
 ALMOND - 101-9151SL-BE  
 BH 272154  
 CLAY - 120-0239  
 BH 272151



ADA HANDLE

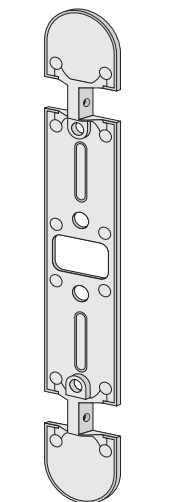
EXTERIOR PULL  
 WHITE - BH  
 ALMOND - BH  
 CLAY - BH

INTERIOR HANDLE  
 WHITE - BH  
 ALMOND - BH  
 CLAY - BH



2 PT. MORTISE LOCK  
 320-0109  
 BH 224700

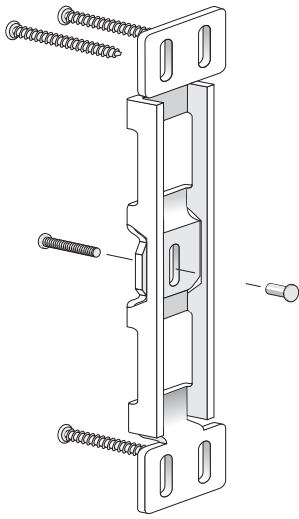
SS MORTISE LOCK  
 BH224900



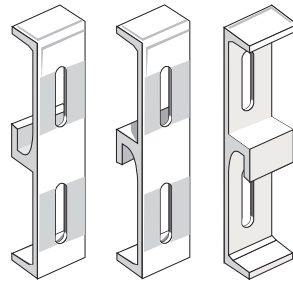
BACK PLATE  
 101-915BP  
 BH 275400



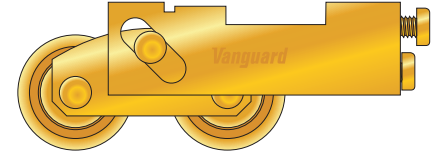
Lock lever



**2 POINT KEEPER (STRIKE)**  
 WHITE - 320-0104  
 BH307101  
 BEIGE - 320-0103  
 BH307154  
 CLAY - 320-0119  
 BH307151



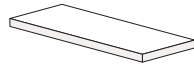
**OXO KEEPER**  
 WHITE - NON STOCK  
 ALMOND - NON STOCK  
 CLAY - NON STOCK



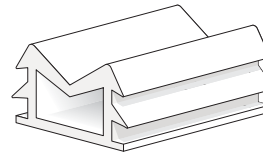
**TANDEM ROLLER**  
 ZINC STEEL  
 101-9004-YC  
 BH 220400



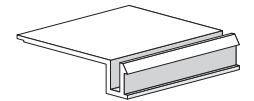
**TANDEM ROLLER**  
 STAINLESS STEEL  
 101-9004-SS  
 BH 220500



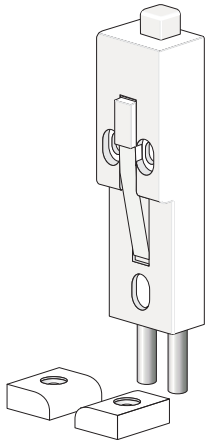
**SETTING BLOCK**  
 9011  
 BC901101



**M4561**  
**DOOR BUMPER**  
 WHITE - BH116701  
 ALMOND - BH116754  
 CLAY - BH116751



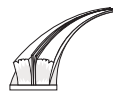
**6109**  
**ANTI-LIFT**  
 WHITE - BC610901  
 ALMOND - BC610954  
 CLAY - BC610951



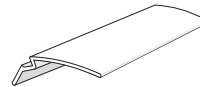
**LOCK PIN STOP**  
 BH1770XX  
**FOOT LOCK**  
 BH1769XX



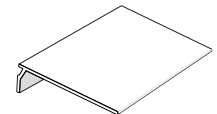
**ADHESIVE**  
**SETTING BLOCK**  
 UM010800



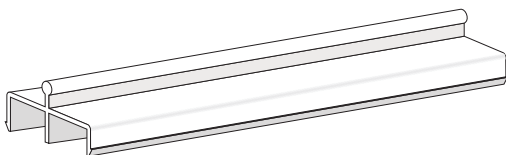
**FIN-SEAL**  
**WEATHERSTRIPPING**  
 W232317  
 BH176801



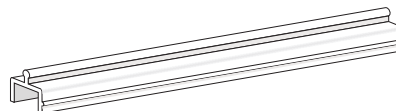
**6177**  
**GLAZING BEAD**  
 WHITE - BC617701  
 ALMOND - BC617754  
 CLAY BC617751  
 BRONZE - BC617792



**7412**  
**SINGLE GLAZING BEAD**  
 WHITE - BC741201  
 ALMOND - BC741254  
 CLAY - BC741251  
 BRONZE - BC741292



**6266**  
**PANEL TRACK**  
 WHITE - BC626601  
 ALMOND - BC626654  
 CLAY - BC626651



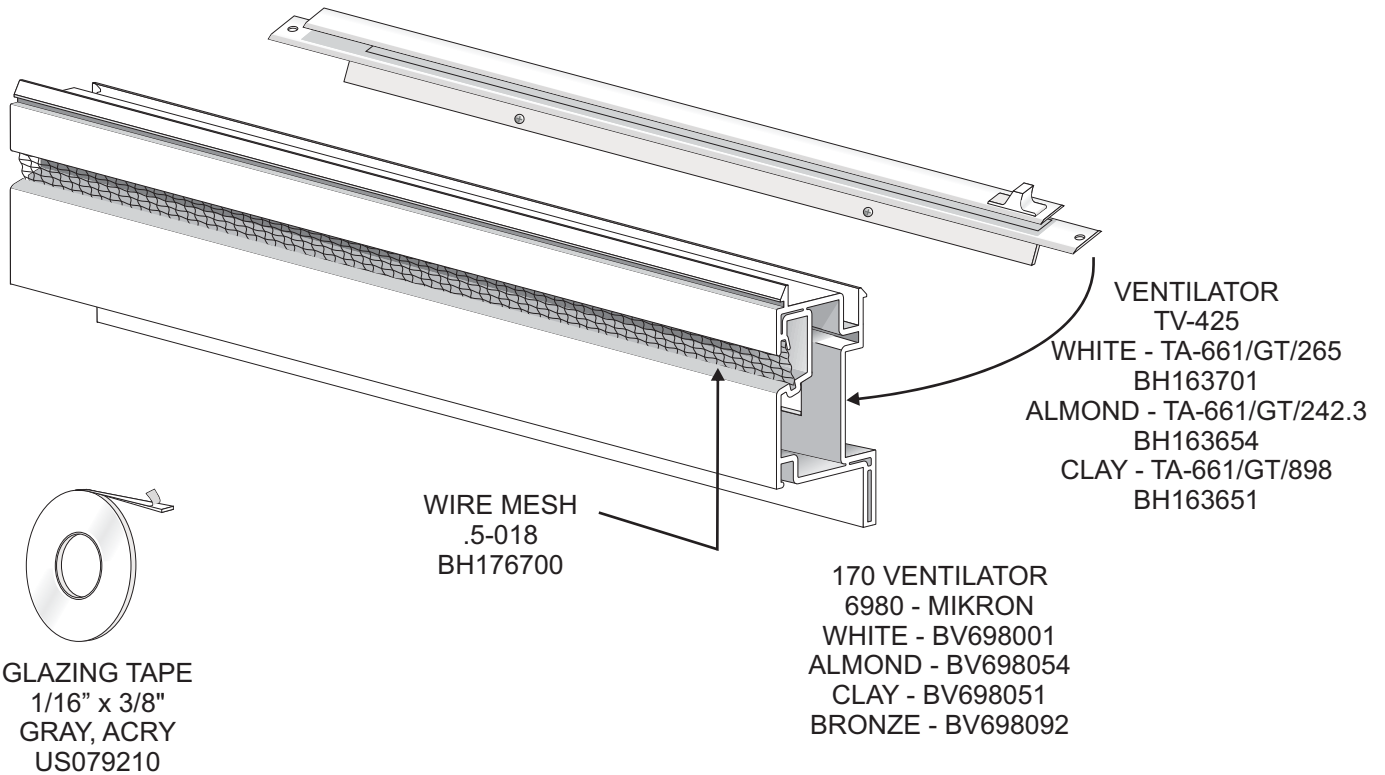
**6227**  
**SCREEN TRACK**  
 WHITE - BC622701  
 ALMOND - BC622754  
 CLAY - BC622751  
 BRONZE - BC622792



**PANEL TRACK COVER**  
 5' SS-9405 58" BH103100  
 6' SS-9405 70" BH103200  
 7' SS-9405 82" BH103300  
 8' SS-9405 94" BH103400  
 12' SS-9405 144" BH103500



# 170 Ventilator



VENTILATOR  
TV-425  
WHITE - TA-661/GT/265  
BH163701  
ALMOND - TA-661/GT/242.3  
BH163654  
CLAY - TA-661/GT/898  
BH163651

WIRE MESH  
.5-018  
BH176700

170 VENTILATOR  
6980 - MIKRON  
WHITE - BV698001  
ALMOND - BV698054  
CLAY - BV698051  
BRONZE - BV698092

GLAZING TAPE  
1/16" x 3/8"  
GRAY, ACRY  
US079210

# 170 Fasteners



BACK PLATE  
SCREW  
8-32x1.96"  
Mach.Pan.Phil  
452-225  
BF272500



FRAME INTERLOCK SCREW  
W/ rubber washer  
8X212.TR.SQ.SS.18-8  
BF156000



Reinforcement Anchor Screw  
#6x3/4" Phil,Flat,Tek  
WHITE - BF207501  
ALMOND - BF207554  
CLAY - BF207551



#8x 1 1/2"  
SS, Pan, Phil  
BF155600



KEEPER INSTALLATION  
SCREW  
#10x2" Pan.Phil  
WHITE - 320-0108  
BF307201  
ALMOND - 320-0110  
BF307254  
CLAY - 320-0120  
BF307251



MORTISE LOCK  
SCREW  
6-32x1/2"  
Mach.Flat.Phil. 18-8 SS

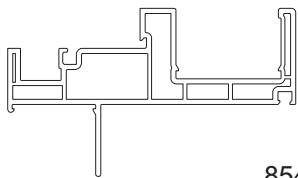


KEEPER FASTENER (Production)  
BINDER POST SCREW  
8x3/4" Phil,Pan,Mach  
BF120300  
BINDER POST Z4306C  
BH300700

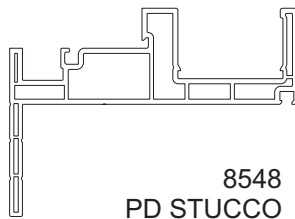


VENTILATOR SCREW  
6x5/8" Phil,Pan,SS  
WHITE - BF207901  
ALMOND - BF207954  
CLAY - BF207951

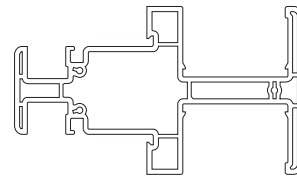
# 170 Extrusions



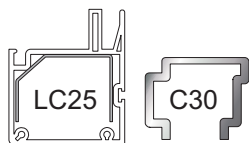
**8545  
PD FRAME**  
 WHITE - BV854501 (149")  
 BV585401 (169")  
 BV544801 (200")  
 ALMOND - BV585454 (149")  
 BV854554 (169")  
 BV545854 (200")  
 CLAY - BV585151 (149")  
 BV851551 (169")  
 BV515851 (200")  
 BRONZE - BV585492 (149")  
 BV854592 (169")  
 BV545892 (200")



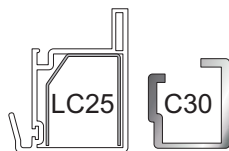
**8548  
PD STUCCO**  
 WHITE - BV854801 (148")  
 BV588401 (170")  
 BV845801 (200")  
 ALMOND - BV854854 (148")  
 BV588454 (170")  
 BV845854 (200")  
 CLAY - BV851851 (148")  
 BV588451 (170")  
 BV845851 (200")  
 BRZ/WT - BV585492 (148")  
 BV854892 (170")  
 BV845892 (200")



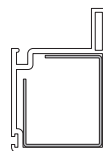
**7189  
PD Dual Pocket**  
 WHITE - BV718901  
 ALMOND - BV718954  
 CLAY - BV718951  
 BRZ/WHT - BV718992



**6461 FIXED INTERLOCK**  
 WHITE - BV646101 (96")  
 BV461601 (164")  
 ALMOND - BV164654 (96")  
 BV646154 (164")  
 CLAY - BV164651 (96")  
 BV646151 (164")  
 BRONZE - BV164692 (96")  
 BV646192 (164")  
 REINFORCEMENT  
 76 3/8" - BM195400  
 ALUM 92 3/8" - BM194300



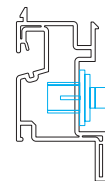
**6418 PANEL INTERLOCK**  
 WHITE - BV641801 (94")  
 BV468101 (160")  
 ALMOND - BV814654 (94")  
 BV641854 (160")  
 CLAY - BV814651 (94")  
 BV641851 (160")  
 BRONZE - BV814692 (94")  
 BV641892 (160")  
 REINFORCEMENT  
 73 9/16" - BM192000  
 ALUM 89 9/16" - BM194400



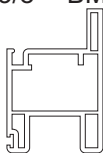
**6417 PANEL STILE**  
 WHITE - BV641701 (94")  
 BV467101 (160")  
 ALMOND - BV714654 (94")  
 BV641754 (160")  
 CLAY - BV714651 (94")  
 BV641751 (160")  
 BRONZE - BV714692 (94")  
 BV641792 (160")  
 REINFORCEMENT  
 BM308300



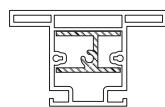
**6415 FILLER**  
 WHITE - BV641501  
 ALMOND - BV641554  
 CLAY - BV641551  
 BRONZE - BV641592



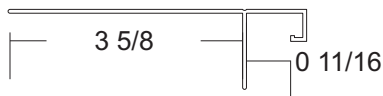
**6980 VENTILATOR**  
 WHITE - BV698001  
 ALMOND - BV698054  
 CLAY - BV698051  
 BRONZE - BV698092



**6419 PANEL RAIL**  
 WHITE - BV641901  
 ALMOND - BV641954  
 CLAY - BV641951  
 BRONZE - BV641992



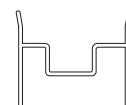
**6456  
FLAT 'T' BAR**  
 WHITE - BV645601  
 ALMOND - BV645654  
 CLAY - BV645651  
 BRONZE - BV645692



**7498  
5/8" DRYWALL RETURN**  
 WHITE 156" - BC894701  
 WHITE 192" - BC749801  
 ALMOND 156" - BC749854  
 ALMOND 192" - BC894754  
 CLAY 156" - BC749851  
 CLAY 192" - BC894751



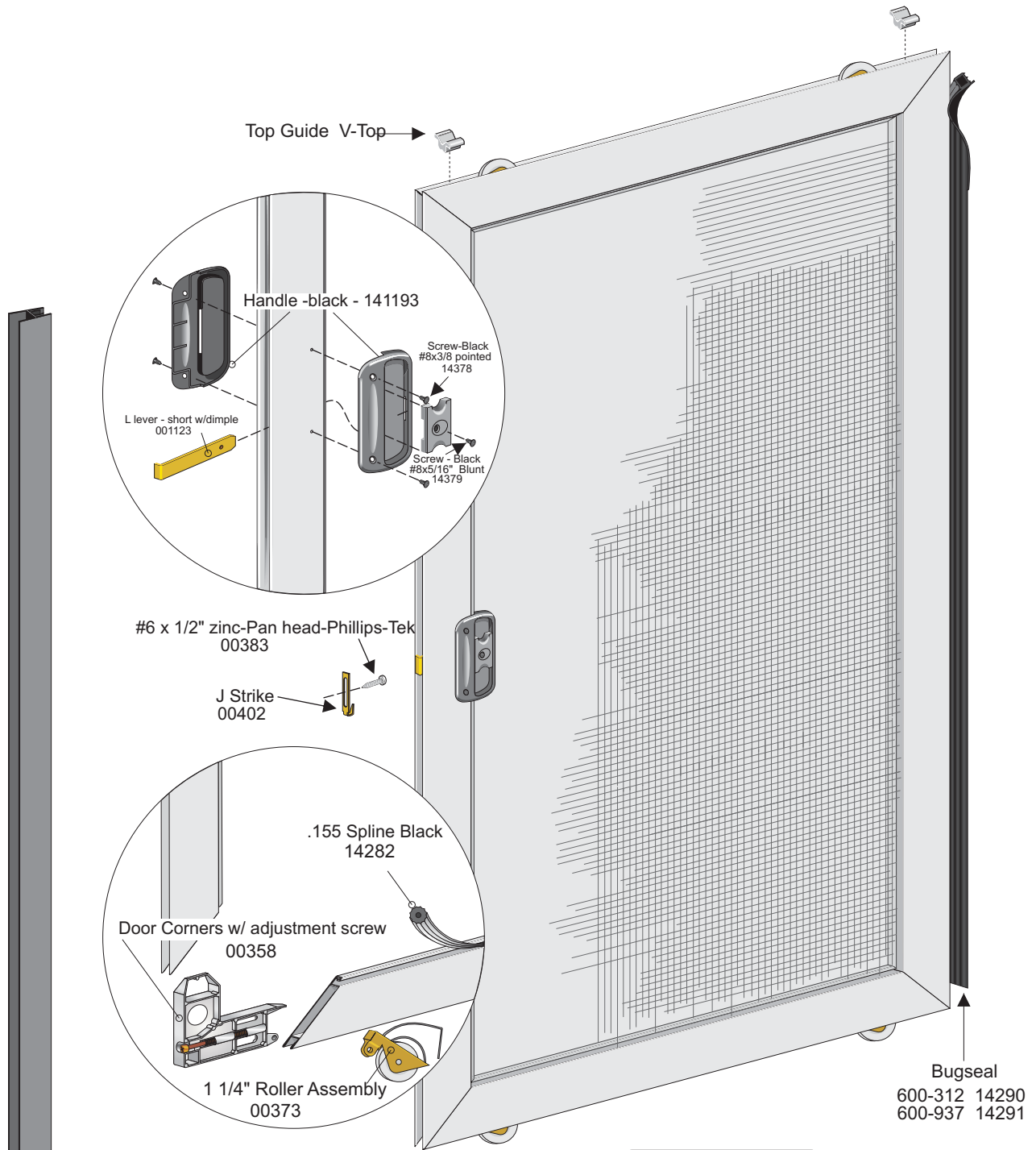
**6516  
170 MULLION**  
 WHITE - BC651601  
 ALMOND - BC651654  
 CLAY - BC651651  
 BRONZE - BC651692



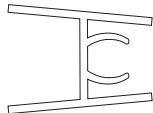
**7119 POCKET BAR**  
 (Astragal for OXXO)  
 WHITE - BC711901  
 ALMOND - BC711954  
 CLAY - BC711951  
 BRONZE - BC711992

# 170 DOOR SCREEN

Aluminite 600 series Door Screen



OXXO ASTRAGAL  
BLACK - BX256800



600 Series Frame  
(Painted steel)

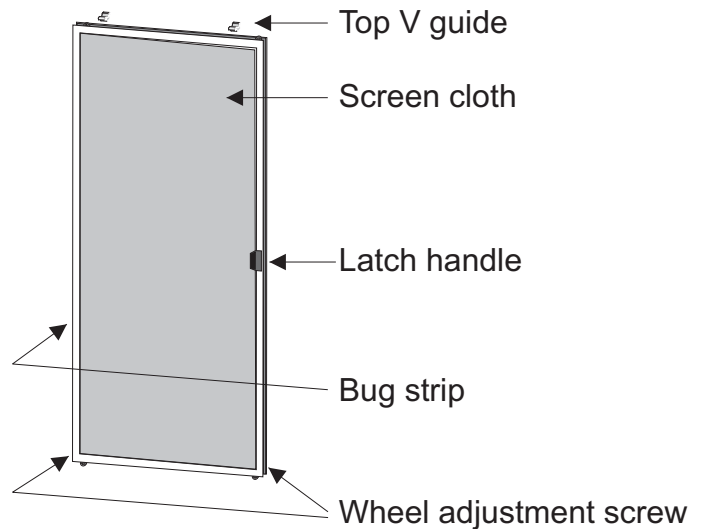


# 170 Sliding Patio Door Screen Installation & Adjustment

## Service Technique

The inside of the screen door is determined by the handle. The locking lever faces inside. The bug strip edge should face in toward the door.

Wheels are provided on both top and bottom of the screen to allow either left or right hand gliding. The top wheel is not used and should not be adjusted. The top wheel however does provide some stability for the screen door. All wheels have a spring action but when adjusted, provide a firm stop at a designated point. Adjusting the top wheel will cause binding and damage the screen.



## INSTALLATION

Ensure the screen is facing the right way, with the lock lever inside, and next to the strike jamb.

1. Locate the top of the screen into the screen channel in the door frame head.
2. Locate both bottom wheels onto the screen track on the door sill by compressing the wheel up into the screen frame.

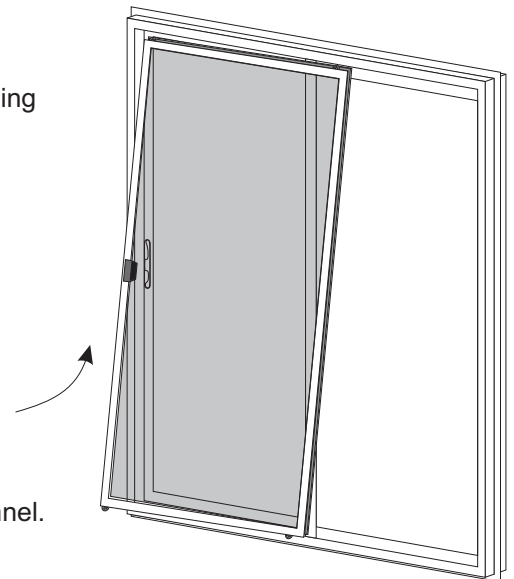
## ADJUSTMENT

Make wheel adjustments to the bottom wheels only.

With a phillips tip screw driver, turn the adjustment screw clockwise to raise the screen and create a firm ride. The bug strip will have to be removed at the screw location. Push it back into position after adjustments are complete.

Proper adjustment would be:

1. When the screen top has reached 1/4 to 1/2" penetration into the screen channel.
2. The screen jamb has a good reveal to the door frame.



## Latch strike installation

If desired, the latch strike may be installed to lock the screen door (not recommended for the 190 door) After the wheel adjustment is complete, locate the strike hook into the door jamb, with the hook at the bottom. Adjust vertically, using the screen door latch as a guide. Install the screw in the center of the adjustable slot in the strike. Make adjustments by loosening the screw and moving the strike up or down.

The screen lock is not a security device.

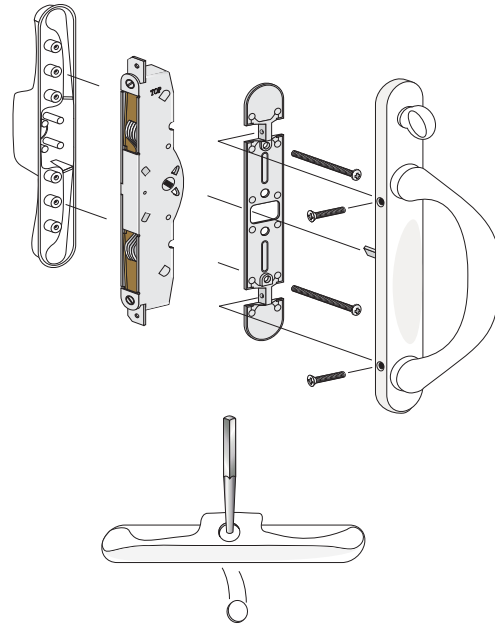
# 170 Sliding Patio Door Key Lock Installation

## Remove Handle

Remove the 2 screws securing the interior handle to the face plate and remove.

Use locking pliers to remove the lock tail from the nylon pivot cam on the reverse side of the handle. This tail will not be reused as the longer key lock tail will be inserted in its place.

Remove the 2 screws securing the face plate and exterior handle pull to the door panel.



## Lock cylinder preparation

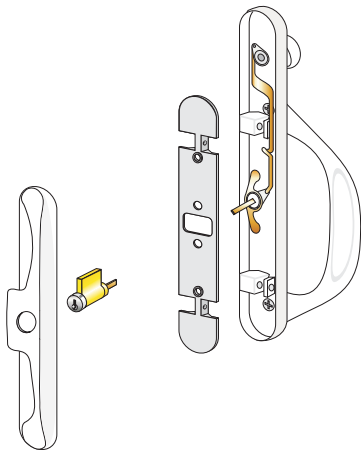
Break off the tail at the last die line, leaving a remaining tail of about 3/8".

Use 2 pair of pliers to avoid the tail from breaking at the wrong location.

Do not remove the lock tail from the interior handle. Reassemble

## Handle preparation

Place the exterior handle pull face up on a scrap piece of wood. Using a heavy punch, knock out the key lock slug. File any rough surfaces of the hole as this may bind on the lock cylinder when turning.



## Reassembly

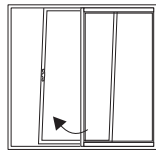
Insert the key lock into the back side of the handle pull as illustrated. Align the handle pull opposite the face plate to the door panel, inserting the lock tail through the mortise lock in the door. Reinstall the face plate screws through to the exterior door handle pull.

Test the key lock operation by inserting the key and turning to operate the lock.

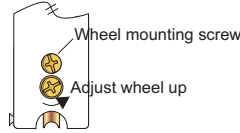
Finish assembly by locating the interior handle, inserting the exposed lock tail into the nylon pivot cam in the handle mechanism.

Test the thumb turn once again to insure all moving parts are unrestricted and operating freely. Reinstall the 2 handle screws to the face plate.

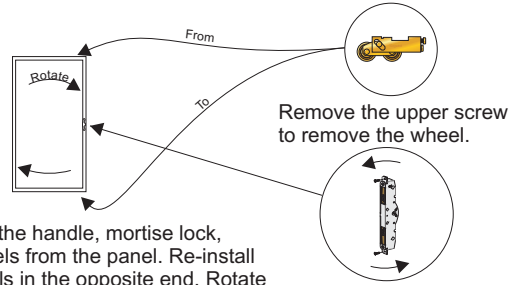
Converting an XO to a OX (or the reverse) may be performed re-using all components except as noted below, providing the door height is 6/10 (82" R/O), or 6/8 (80" R/O). 8/0 height doors will require a new active panel manufactured to the correct hand. Any other conversion process other than specified here is not authorized by manufacturing or Engineering and may result in loss of warranty coverage for structural and water infiltration claims.



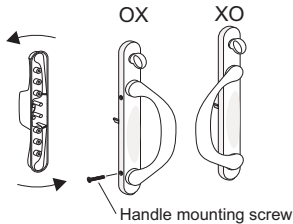
Remove active panel by opening partly, lifting up and out of the bottom track channel. Panel wheels may have to be adjusted up to allow clearance.



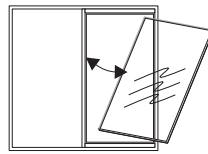
Remove the handle, mortise lock, and wheels from the panel. Re-install the wheels in the opposite end. Rotate the mortise lock 180° and re-install. Rotate the panel top to bottom.



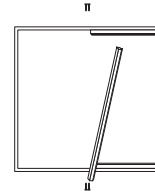
**Important note:** Remove the glazing bead and add or move the setting blocks to the new sill location. Unit failure will occur by missing this procedure.



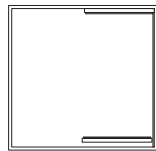
Replace the interior handle to the opposite hand. The exterior handle can be rotated and reinstalled.



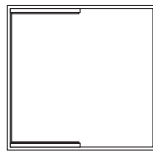
Deglaze the fixed lite. Clean-up all remaining glazing tape debris from unit and frame. Refer to "Reglaze" instructions for glass replacement procedure.



Remove fixed interlock screws (head & sill), remove fixed interlock.

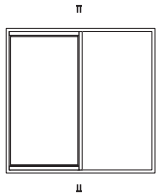


Top and bottom fillers are a "snap in" fit, no fasteners. To remove, push on the glazing leg toward the exterior.

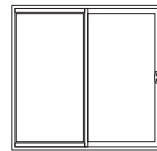


Relocate the fillers to the opposite side of the frame, hooking the outboard barb of the filler to the frame and push in and down (or up for top).

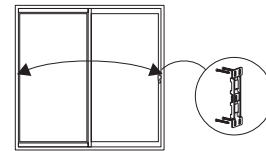
**VENTILATOR NOTE**  
If the door has the integral ventilator filler bar (top filler bar) the interior ventilator may be removed and turned around to the correct position for operator convenience.



Rotate and reinstall the fixed interlock. The square drive (#2) truss head screws must be tightened to compress but not distort the rubber washer.

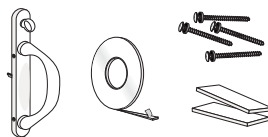


Reglaze the fixed lite and reinstall the active panel.



Relocate the lock keeper, making adjustments after the panel has been adjusted.

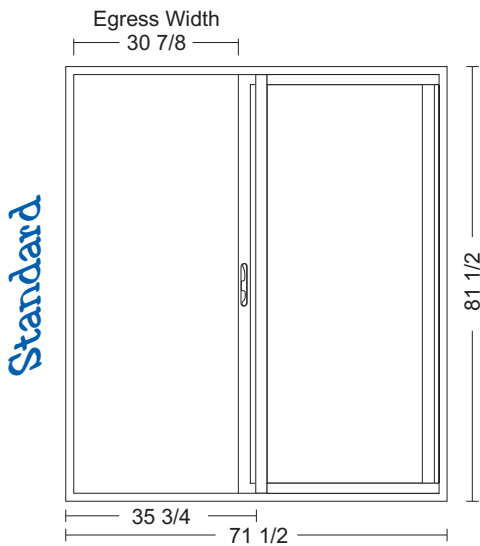
**Parts needed:**  
Replacement handle  
Glazing tape  
Fixed interlock screws  
Setting blocks



The center binder post screw is a fastener intended for shipping only and is not required for keeper installation.

# 170 Patio Door ADA Modification

AMERICANS with DISABILITIES ACT of 1990

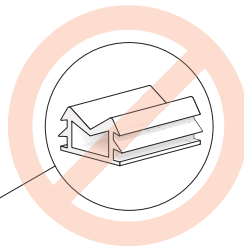


NET frame dimensions for Standard 60610 170 XO

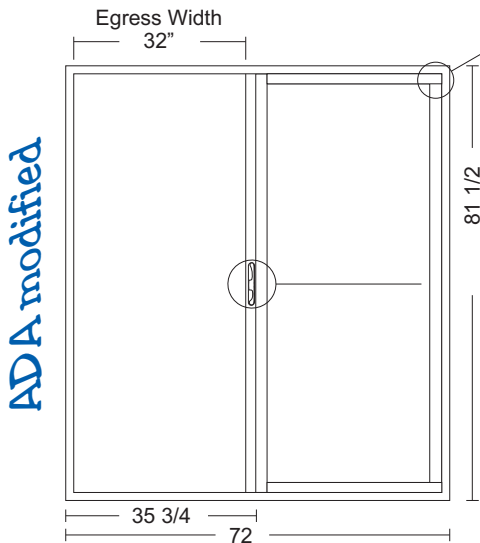
**NOTE**

Ramp systems over the threshold are not provided by the manufacturer. The NET frame threshold height is 1 1/2". Ramp systems installed to the exterior of the door frame must not obstruct the weep system. Floor height or permanent interior ramps above the threshold will interfere with sash panel removal.

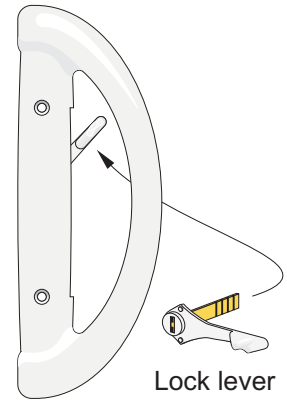
Door Bumper (Panel stop) is omitted for the ADA modification to increase egress clearance.



The ADA interior handle replaces the standard handle. 2 point mortise lock, keeper and exterior pull remain unchanged to the standard 170 door.



Exterior Pull



Interior Handle

Lock lever

Increase the NET frame size 1/2" at the fixed portion only (Same sash panel size as standard)

The fixed lite is "special tempered size" (1/2" wider than standard door width)

# 170 Patio Door

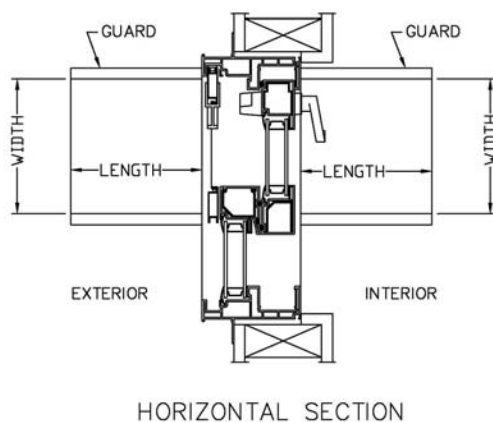
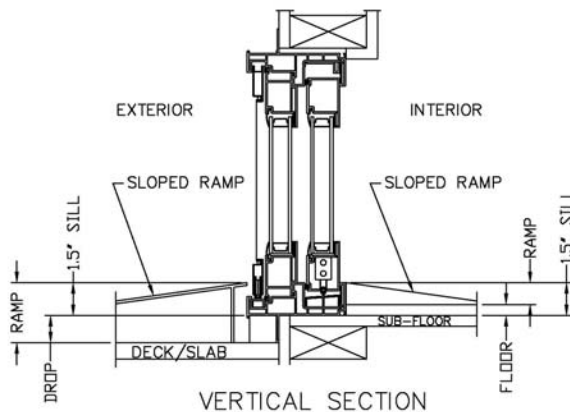
## Accessibility Ramps

### Background

Ramp systems for wheel chair accessibility are not supplied by AMI for our doors. Each job site has different interior floor heights and exterior deck or slab heights and the ramps must be designed for the application. Builders should consult with their local code officials to determine the specific slope and clearance criteria for their location. The following are some general recommendations for designing the individual ramp systems. Follow the ramp manufacturer's instructions for selection and installation of their ramp system.

### Ramp Design

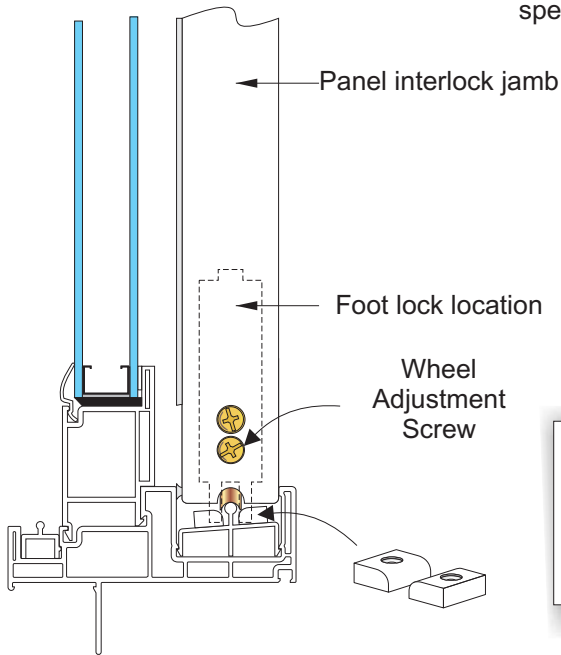
- Use extruded aluminum ramps on the exterior to prevent blockage of the doors weep holes.
- Rubber or aluminum ramps can be used on the interior, all ramps must be securely fastened.
- Ramps should be flush with the top of the sill and not obstruct the operating panel or screen tracks.
- Interior ramp heights are calculated by subtracting the floor thickness from the 1.5" sill height.
- Exterior ramp heights are calculated by adding the drop distance to the deck/slab to the 1.5" sill height. (see vertical section below)
- Ramp widths should be a minimum of 36" wide and have side guards 2" taller than ramp. (see horizontal section below)
- Ramp lengths will be the slope multiplied by the ramp height. For a 1/12 slope and a 1.5" ramp height the following calculation would be used;  $12 \times 1.5 = 18$ " ramp length.
- Pemko, Hager, and Handi-Ramp all offer ADA compliant ramps and have internet information available.





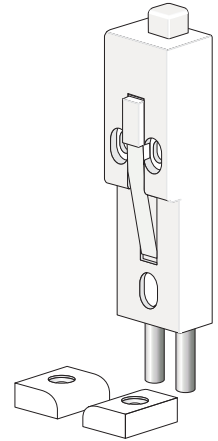
# 170 Patio Door Foot Lock Installation

The Foot Lock is a secondary security lock that is employed with the mortise lock in the closed position. This device was not intended as a fresh air stop or multi-position lock. The Foot Lock does comply with forced entry specifications.



FOOT LOCK  
BH1769XX

LOCK PIN STOP  
BH1770XX

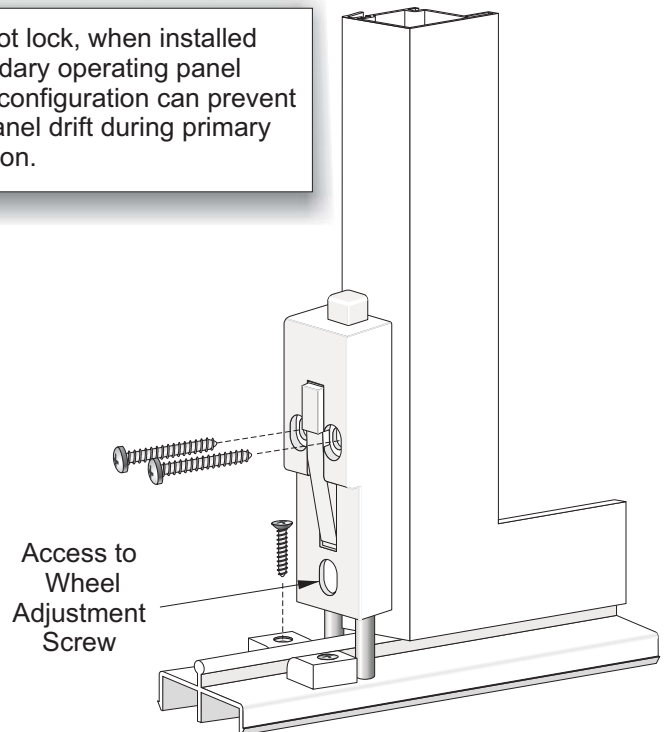


Note: This foot lock, when installed on the secondary operating panel of an OXXO configuration can prevent secondary panel drift during primary panel operation.

After the door is installed, make wheel adjustments if needed to align the panel with the strike jamb, to obtain an equal reveal, and adequate clearance between lock pin stops and panel.

Locate the foot lock to the panel, **in the locked position**, aligning the adjustment screw access hole with the adjustment screw. Drill pilot holes through the mounting holes into the door panel. Install the 2 #8 x 1 1/2" pan head phillips mounting screws.

In the unlocked position, check that the panel will pass over the lock pin stops located on the track surface.



Locate lock pin stops last. Close and lock the panel. Place both lock pin stops as illustrated onto the track and secure with #8 x 1" flat head, phillips screws.