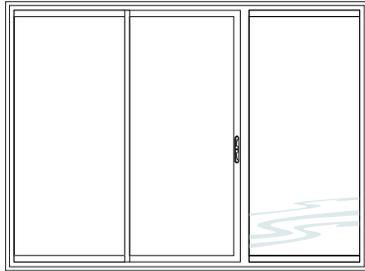
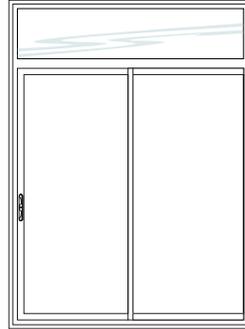


170 Sliding Patio Door available Styles

A-171



O XO Continuous Frame

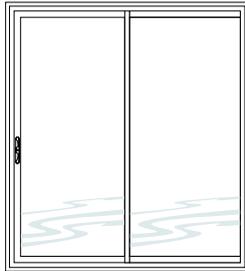


Continuous Frame Transom

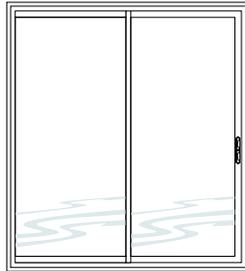


Sidelite

A-172

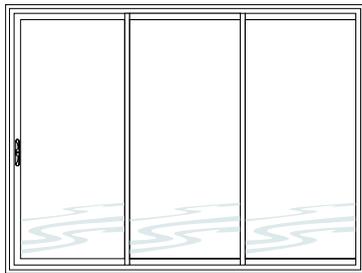


XO

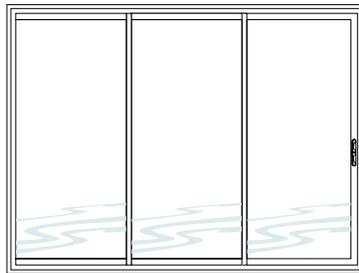


OX

A-173

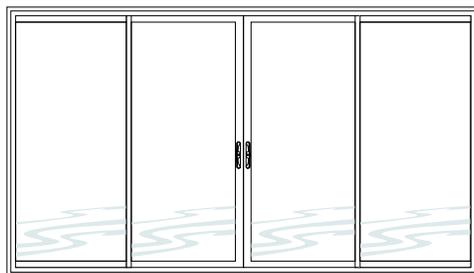


XOO



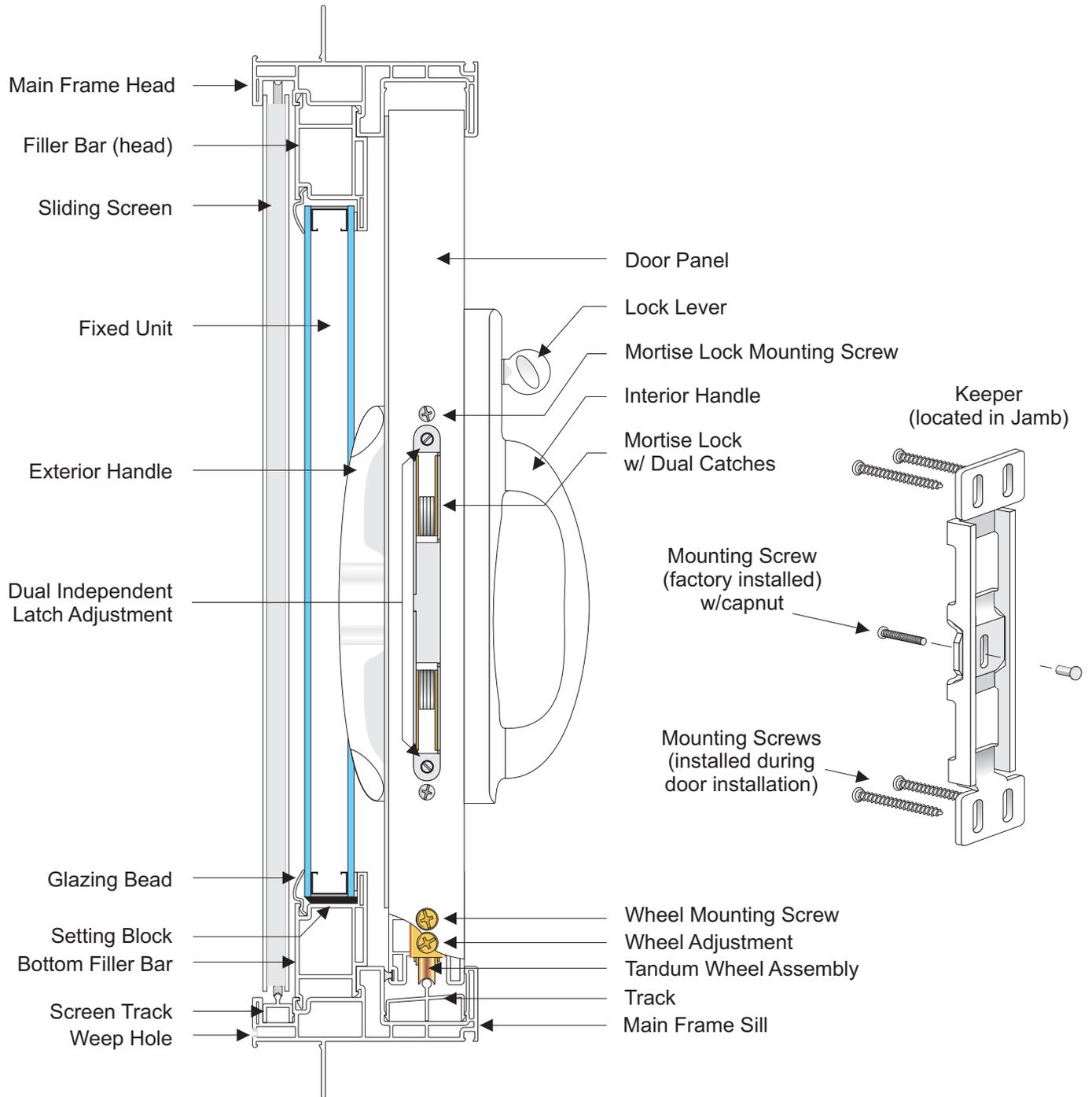
OOX

A-175

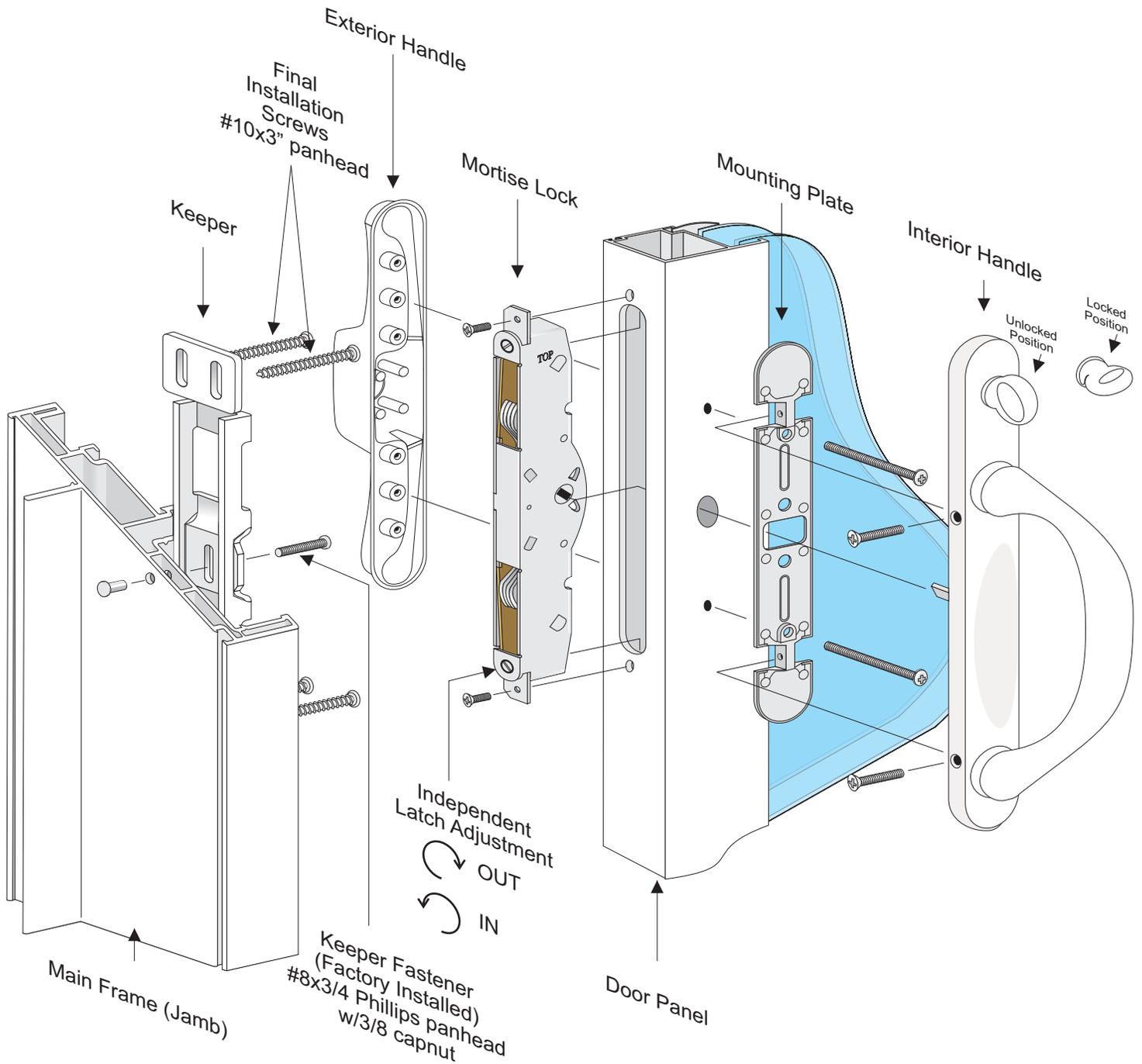


OXXO

170 Sliding Patio Door Component Identification

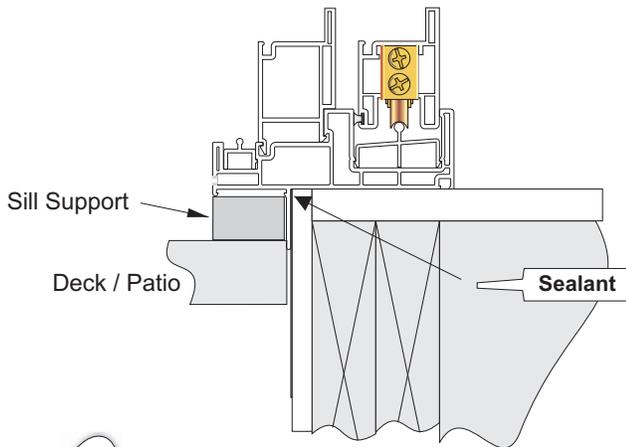


170 Sliding Patio Door Handle Hardware



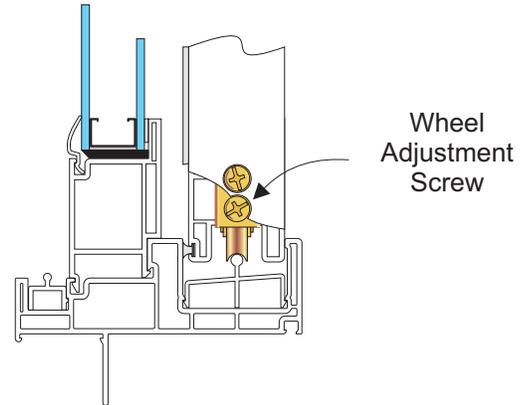
170 Patio Door Installation guide

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



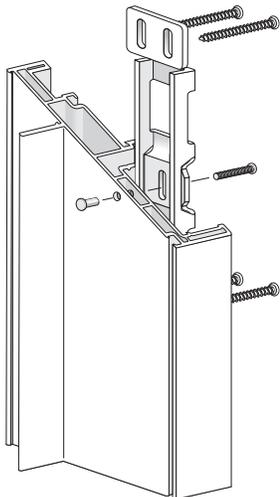
1 Sill Support

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



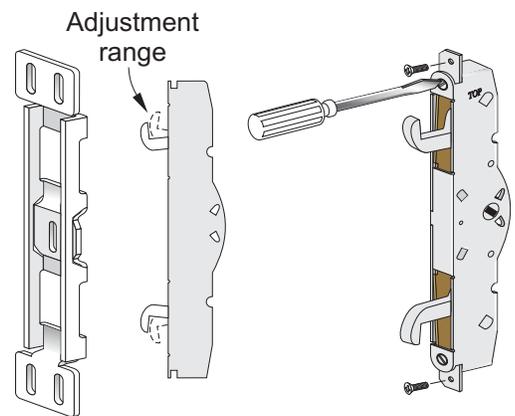
2 Wheel adjustment

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

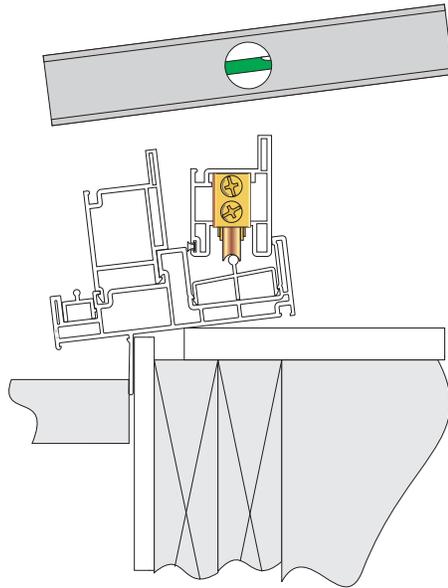
The factory installed keeper is secured with a temporary fastener. Forced entry code requires the additional 3 inch keeper screws to be installed through the frame and into the rough opening. Provide a solid shim between the frame and R/O behind the keeper location. Make vertical adjustments to the keeper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



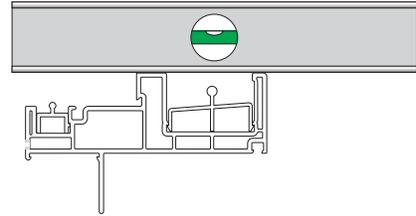
4 Lock adjustment

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

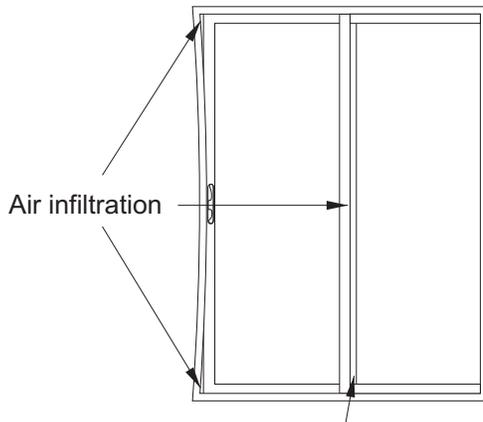


Place a level across the channel walls to check for roll-out or frame sag.

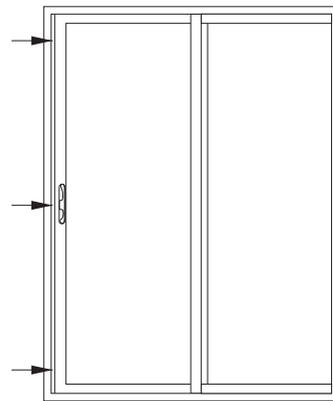
Without Sill Support

- 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

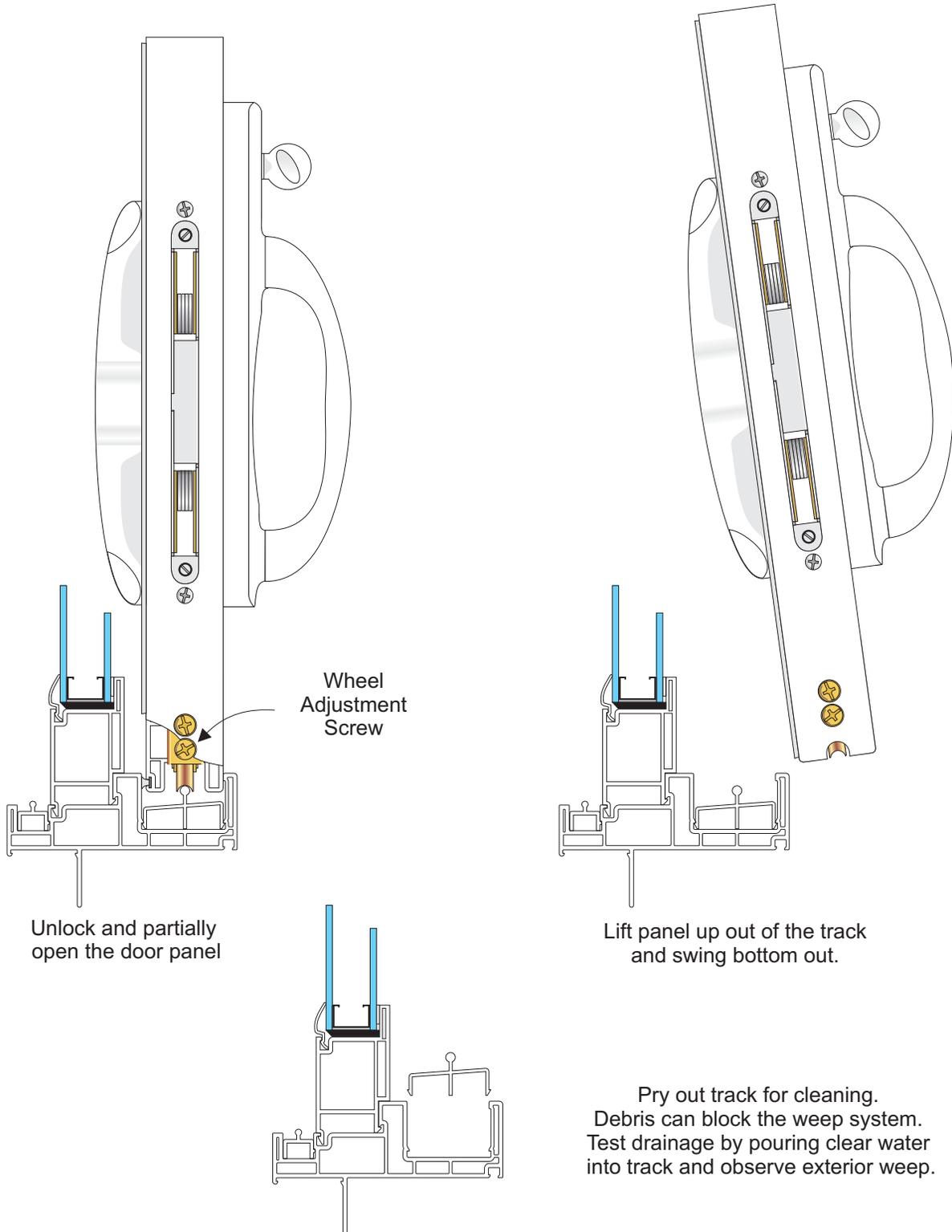


Secure strike jamb with equal reveal to the panel.

Frame mis-installation

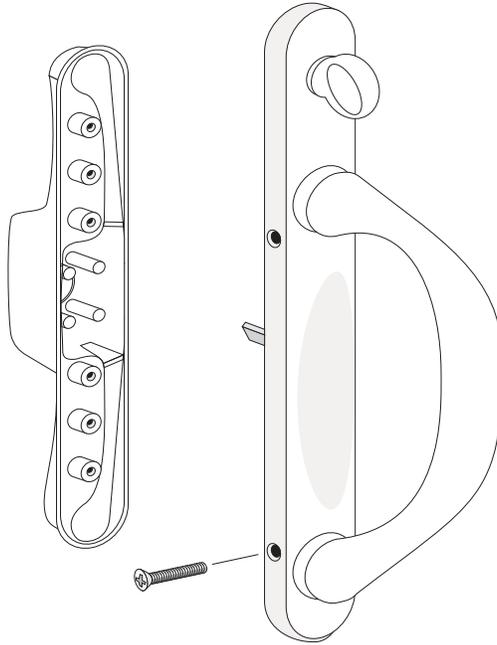
Main frame installation must be straight and square. The weight of the door placed in a rough opening can distort the frame sill without exterior sill support. The main frame strike jamb must maintain an equal reveal to the panel in order for the panel to reach full interlock and seal properly. Nail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

170 Sliding Patio Door Maintenance

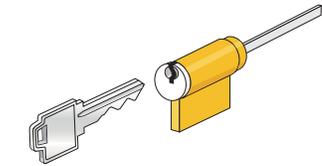


170 Sliding Patio Door Parts List

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

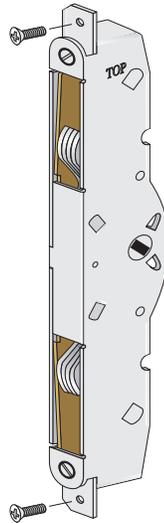


INSIDE RIGHT HANDLE (OX)
 WHITE - 101-9151SR-WH
 BH 272601
 ALMOND - 101-9151SR-BE
 BH 272654
 CLAY - 120-0240
 BH 272651



KEYED LOCK
 KEYED DIFFERENTLY - BH171600
 KEYED ALIKE - BH171700

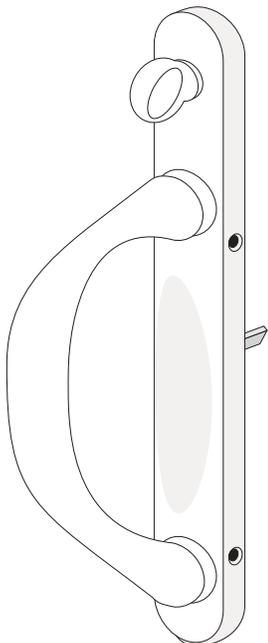
INSIDE LEFT HANDLE (XO)
 WHITE - 101-9151SL-WH
 BH 272101
 ALMOND - 101-9151SL-BE
 BH 272154
 CLAY - 120-0239
 BH 272151



ADA HANDLE

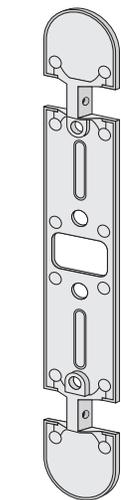
EXTERIOR PULL
 WHITE - BH
 ALMOND - BH
 CLAY - BH

INTERIOR HANDLE
 WHITE - BH
 ALMOND - BH
 CLAY - BH



2 PT. MORTISE LOCK
 320-0109
 BH 224700

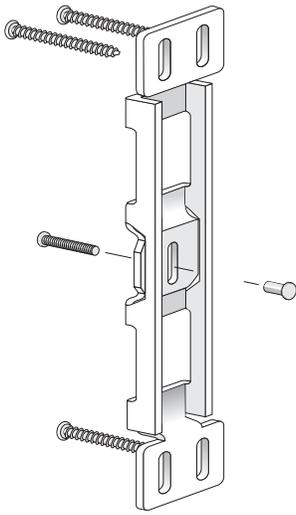
SS MORTISE LOCK
 BH224900



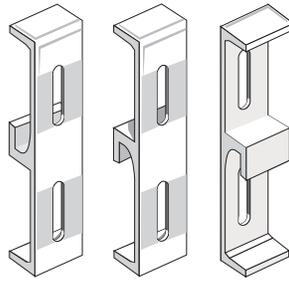
BACK PLATE
 101-915BP
 BH 275400



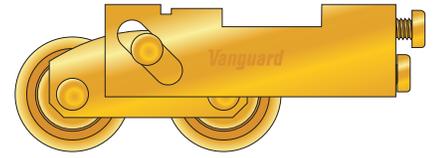
Lock lever



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



OXXO KEEPER
 BH1735XX



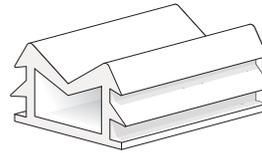
TANDEM ROLLER
 ZINC STEEL
 101-9004-YC
 BH 220400



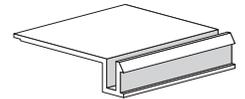
TANDEM ROLLER
 STAINLESS STEEL
 101-9004-SS
 BH 220500



SETTING BLOCK
 9011
 BC901101



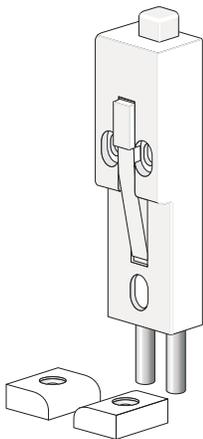
M4561
 DOOR BUMPER
 WHITE - BH116701
 ALMOND - BH116754
 CLAY - BH116751



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



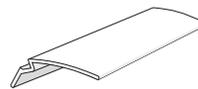
ADHESIVE
 SETTING BLOCK
 UM010800



LOCK PIN STOP
 BH1770XX
FOOT LOCK
 BH1769XX



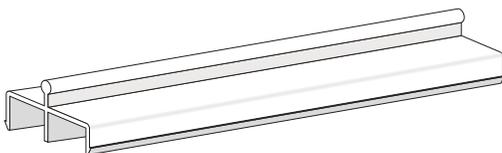
FIN-SEAL
 WEATHERSTRIPPING
 W232317
 BH176801



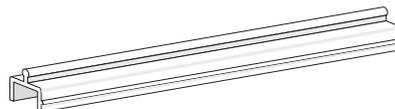
6177
 GLAZING BEAD
 WHITE - BC617701
 ALMOND - BC617754
 CLAY BC617751
 BRONZE - BC617792



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



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

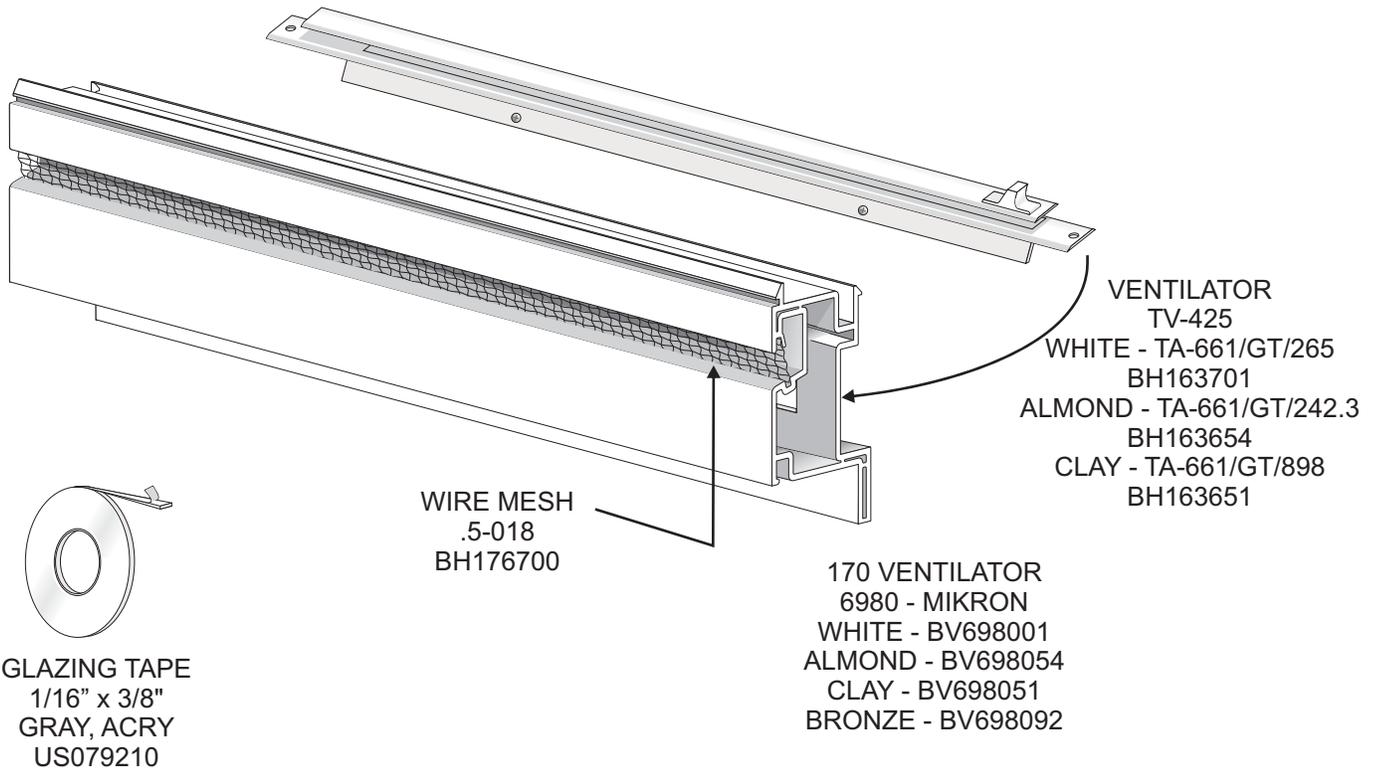


6227
 SCREEN TRACK
 WHITE - BC622701
 ALMOND - BC622754
 CLAY - BC622751
 BRONZE - BC622792



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



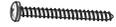
BACK PLATE
SCREW
8-32x1.96"
Mach.Pan.Phil
452-225
BF272500



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

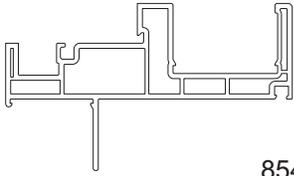


KEEPER FASTENER (Production)
BINDER POST SCREW
8x3/4" Phil,Pan,Mach
BF120300
BINDER POST Z4306C
BH300700

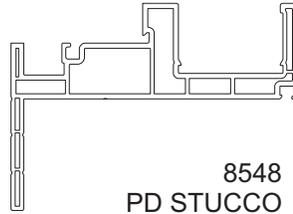


VENTILATOR SCREW
6x5/8" Phil,Pan,SS
WHITE - BF207901
ALMOND - BF207954
CLAY - BF207951

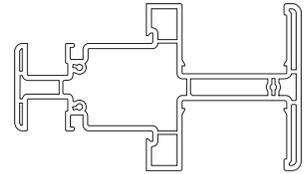
170 Extrusions



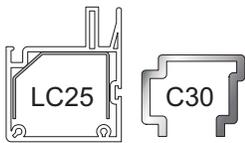
**8545
PD FRAME**
 WHITE - BV854501 (149")
 BV585401 (169")
 BV544801 (200")
 ALMOND - BV585454 (149")
 BV854554 (169")
 BV545854 (200")
 CLAY - BV585151 (149")
 BV851551 (169")
 BV515851 (200")
 BRONZE - BV585492 (149")
 BV854592 (169")
 BV545892 (200")



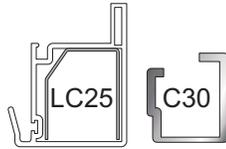
**8548
PD STUCCO**
 WHITE - BV854801 (148")
 BV588401 (170")
 BV845801 (200")
 ALMOND - BV854854 (148")
 BV588454 (170")
 BV845854 (200")
 CLAY - BV851851 (148")
 BV588451 (170")
 BV845851 (200")
 BRZ/WT - BV585492 (148")
 BV854892 (170")
 BV845892 (200")



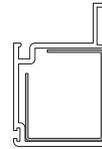
**7189
PD Dual Pocket**
 WHITE - BV718901
 ALMOND - BV718954
 CLAY - BV718951
 BRZ/WHT - BV718992



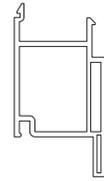
6461 FIXED INTERLOCK
 WHITE - BV646101 (96")
 BV461601 (164")
 ALMOND - BV164654 (96")
 BV646154 (164")
 CLAY - BV164651 (96")
 BV646151 (164")
 BRONZE - BV164692 (96")
 BV646192 (164")
 REINFORCEMENT
 76 3/8" - BM195400
 ALUM 92 3/8" - BM194300



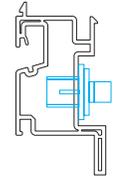
6418 PANEL INTERLOCK
 WHITE - BV641801 (94")
 BV468101 (160")
 ALMOND - BV814654 (94")
 BV641854 (160")
 CLAY - BV814651 (94")
 BV641851 (160")
 BRONZE - BV814692 (94")
 BV641892 (160")
 REINFORCEMENT
 73 9/16" - BM192000
 ALUM 89 9/16" - BM194400



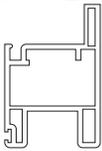
6417 PANEL STILE
 WHITE - BV641701 (94")
 BV467101 (160")
 ALMOND - BV714654 (94")
 BV641754 (160")
 CLAY - BV714651 (94")
 BV641751 (160")
 BRONZE - BV714692 (94")
 BV641792 (160")
 REINFORCEMENT
 BM308300



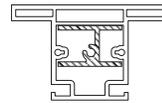
6415 FILLER
 WHITE - BV641501
 ALMOND - BV641554
 CLAY - BV641551
 BRONZE - BV641592



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



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



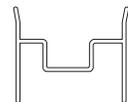
**6456
FLAT 'T' BAR**
 WHITE - BV645601
 ALMOND - BV645654
 CLAY - BV645651
 BRONZE - BV645692



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



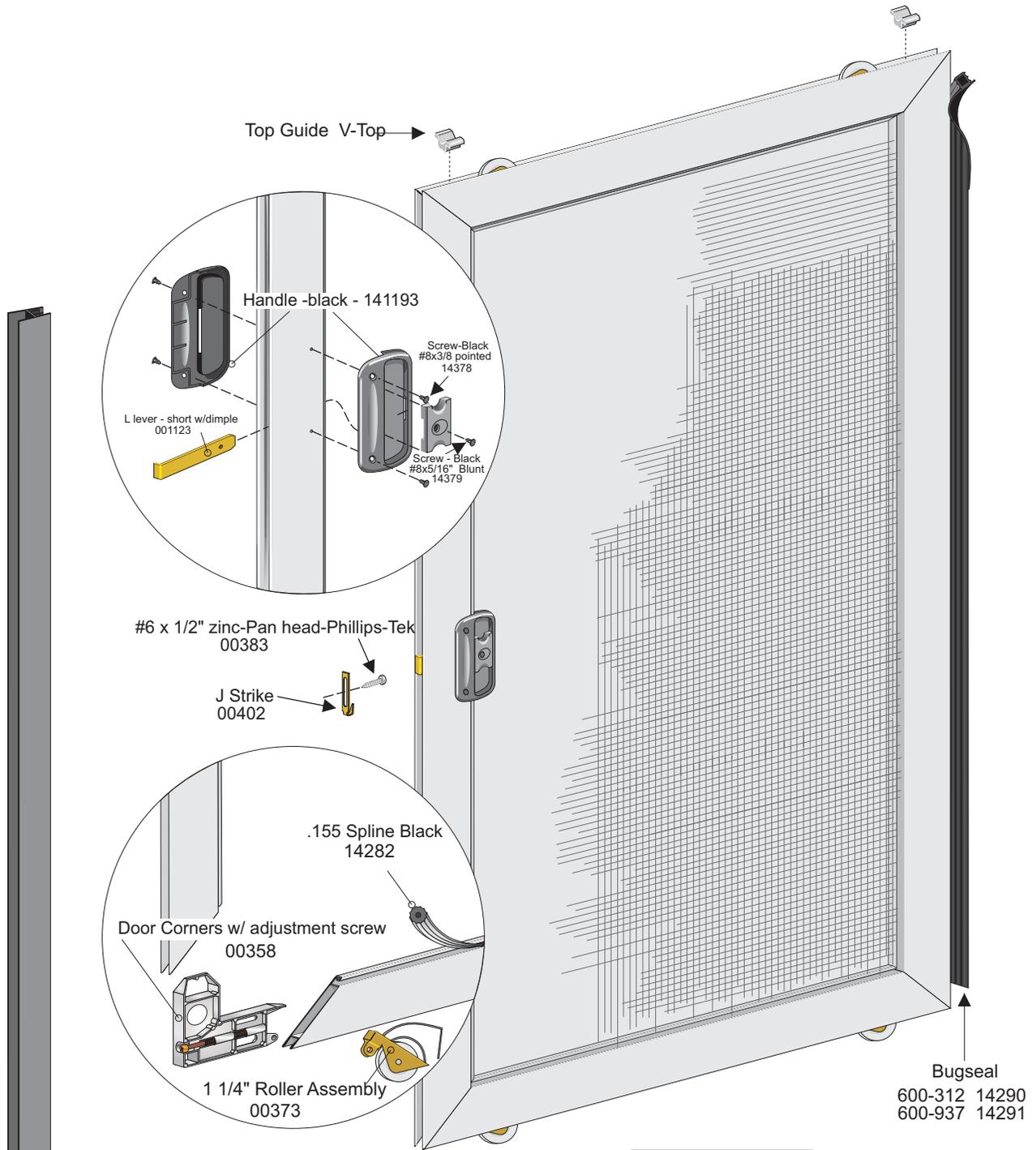
**6516
170 MULLION**
 WHITE - BC651601
 ALMOND - BC651654
 CLAY - BC651651
 BRONZE - BC651692



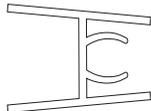
7119 POCKET BAR
 (Astragal for OXXO)
 WHITE - BC711901
 ALMOND - BC711954
 CLAY - BC711951
 BRONZE - BC711992

170 DOOR SCREEN

Aluminite 600 series Door Screen



OXXO ASTRAGAL
BLACK - BX256800



600 Series Frame
(Painted steel)

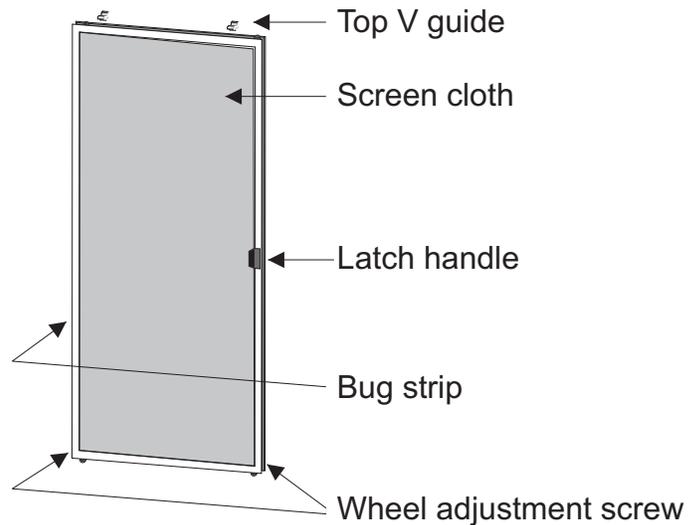


170 Sliding Patio Door Screen Installation & Adjustment

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.

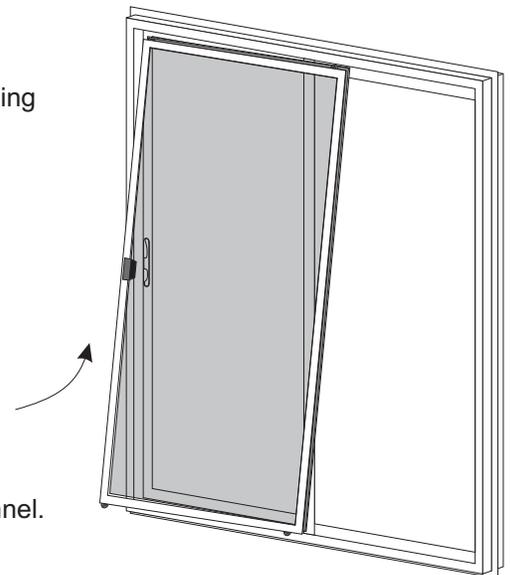
ADJUSTMENT

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.

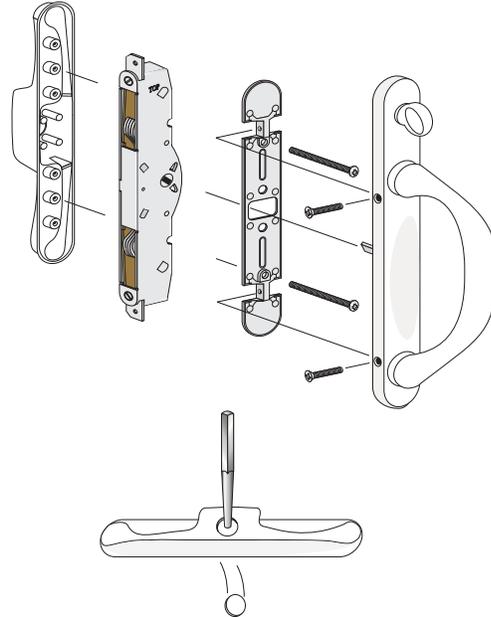
170 Sliding Patio Door Key Lock Installation

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

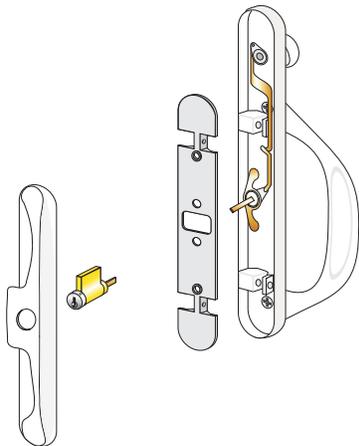
Break off the tail at the last die line, leaving a remaining tail of about 3/8".

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

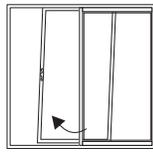
Insert the key lock into the back side of the handle pull as illustrated. Align the handle pull opposite the face plate to the door panel, inserting the lock tail through the mortise lock in the door. Reinstall the face plate screws through to the exterior door handle pull.

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

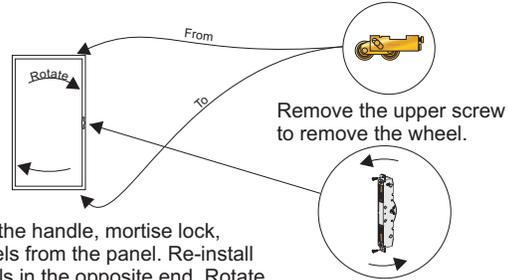
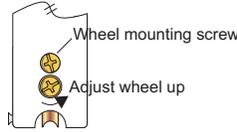
Finish assembly by locating the interior handle, inserting the exposed lock tail into the nylon pivot cam in the handle mechanism.

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.

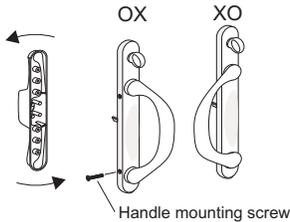


Remove active panel by opening partly, lifting up and out of the bottom track channel. Panel wheels may have to be adjusted up to allow clearance.

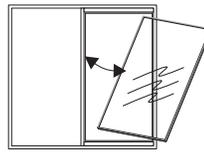


Remove the handle, mortise lock, and wheels from the panel. Re-install the wheels in the opposite end. Rotate the mortise lock 180° and re-install. Rotate the panel top to bottom.

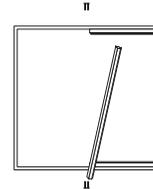
Important note: Remove the glazing bead and add or move the setting blocks to the new sill location. Unit failure will occur by missing this procedure.



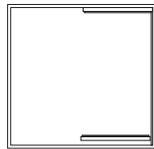
Replace the interior handle to the opposite hand. The exterior handle can be rotated and reinstalled.



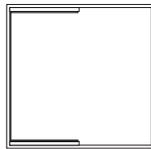
Deglaze the fixed lite. Clean-up all remaining glazing tape debris from unit and frame. Refer to "Reglaze" instructions for glass replacement procedure.



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

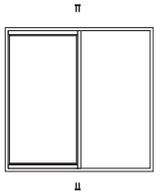


Top and bottom fillers are a "snap in" fit, no fasteners. To remove, push on the glazing leg toward the exterior.

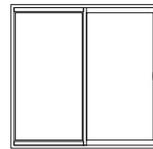


Relocate the fillers to the opposite side of the frame, hooking the outboard barb of the filler to the frame and push in and down (or up for top).

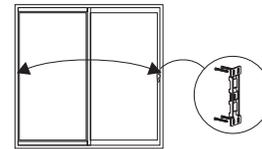
VENTILATOR NOTE
If the door has the integral ventilator filler bar (top filler bar) the interior ventilator may be removed and turned around to the correct position for operator convenience.



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

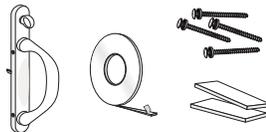


Reglaze the fixed lite and reinstall the active panel.



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

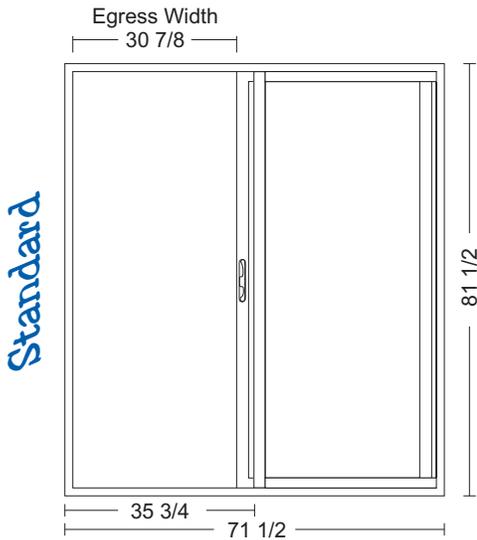
Parts needed:
Replacement handle
Glazing tape
Fixed interlock screws
Setting blocks



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

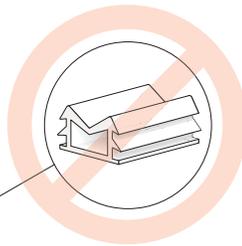


NET frame dimensions for Standard 60610 170 XO

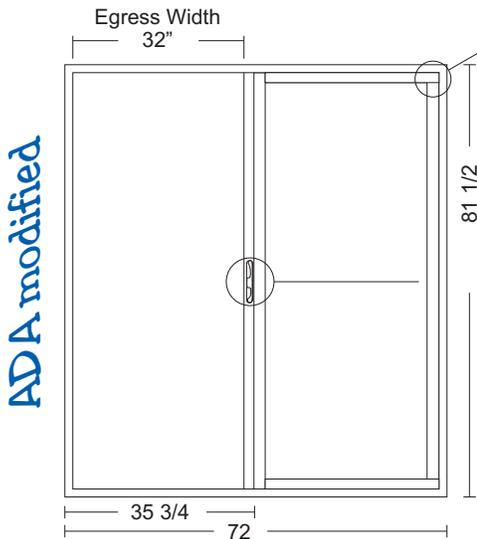
NOTE

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.

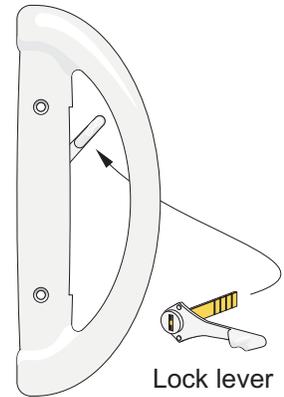
Door Bumper (Panel stop) is omitted for the ADA modification to increase egress clearance.



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

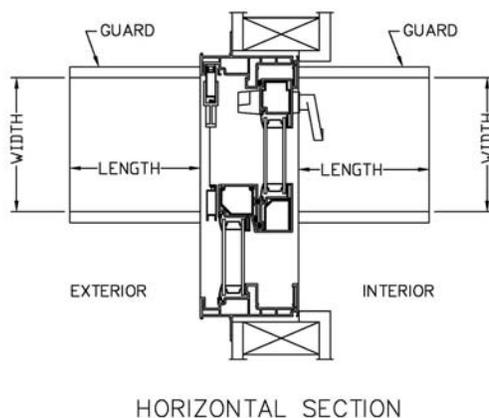
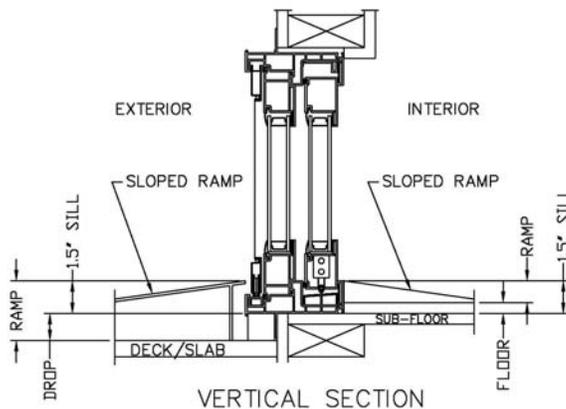
Accessibility Ramps

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.

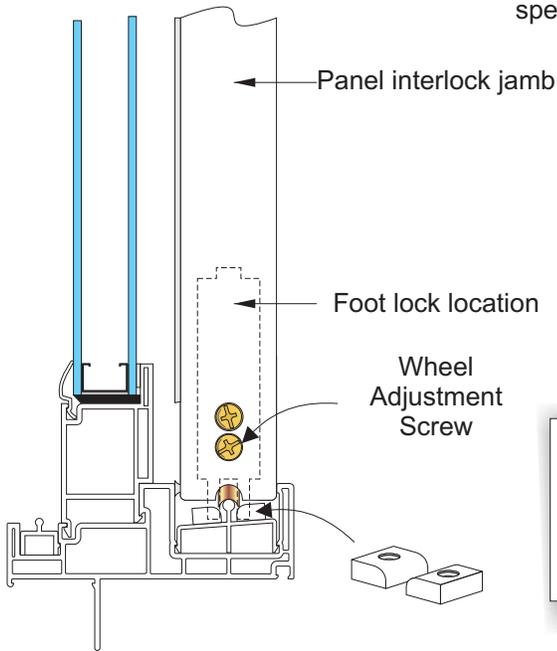
Ramp Design

- 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.



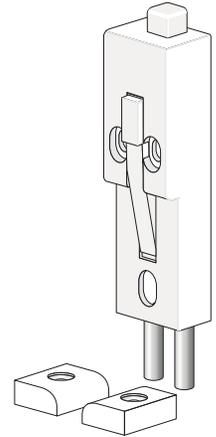
170 Patio Door Foot Lock Installation

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

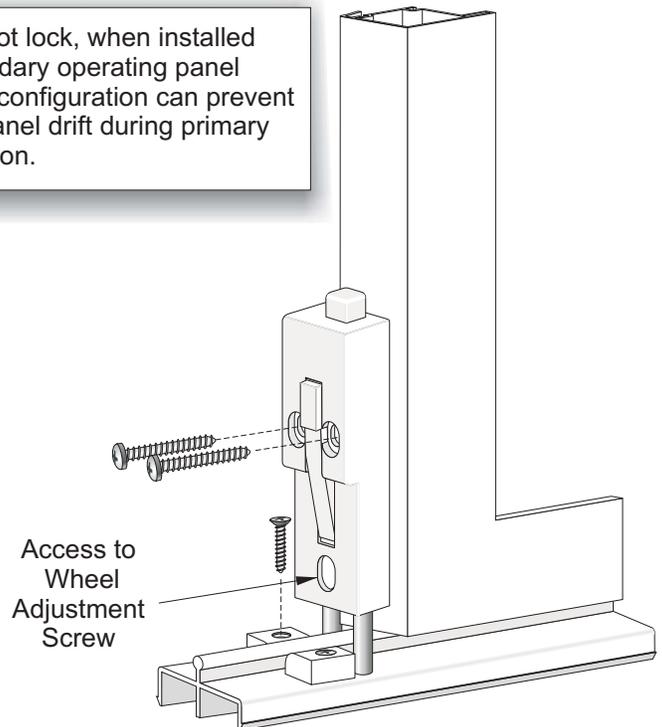


Note: This foot lock, when installed on the secondary operating panel of an OXXO configuration can prevent secondary panel drift during primary panel operation.

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.