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 Handle Hardware

- Exterior Handle
- Mortise Lock
- Interior Handle
- Keeper
- Keeper Fastener (Factory Installed) #8x3/4 Phillips panhead w/3/8 capnut
- Final Installation Screws #10x3" panhead
- Independent Latch Adjustment
- Mounted Panel (Jamb)
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 affect 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

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.

Level Sill

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

Bowed Strike Jamb

Air infiltration

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.
Unlock and partially open the door panel.

Lift panel up out of the track and swing bottom out.

Wheel Adjustment Screw

Pry out track for cleaning. Debris can block the weep system. Test drainage by pouring clear water into track and observe exterior weep.
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 LEFT HANDLE (XO)
WHITE - 101-9151S-WH
BH 272101
ALMOND - 101-9151S-BE
BH 272154
CLAY - 120-0239
BH 272151

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

EXTERIOR PULL
WHITE - BH
ALMOND - BH
CLAY - BH

INTERIOR HANDLE
WHITE - BH
ALMOND - BH
CLAY - BH

ADA HANDLE

2 PT. MORTISE LOCK
320-0109
BH 224700

SS MORTISE LOCK
BH224900

BACK PLATE
101-915BP
BH 275400

Lock lever
### 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**
  - 0.018
  - BH176700

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

### 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

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

- **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

- **VENTILATOR SCREW**
  - 6x5/8" Phil,Pan,SS
  - WHITE - BF207901
  - ALMOND - BF207954
  - CLAY - BF207951
170 DOOR SCREEN
Aluminate 600 series Door Screen

- #6 x 1/2" zinc-Pan head-Phillips-Tek
- 600 Series Frame (Painted steel)
- Door Corners w/ adjustment screw
- 1 1/4" Roller Assembly
- Top Guide V-Top
- Handle - black - 141193
- J Strike - 00402
- #6 x 1/2" zinc-Pan head-Phillips-Tek
- 00383
- J Strike - 00402
- .155 Spline Black
- 14282
- Door Corners w/ adjustment screw
- 00358
- 1 1/4" Roller Assembly
- 00373
- 00383
- Bugseal
- 00358
- 14290
- 00358
- 14291
- OXXO ASTRAGAL
- BLACK - BX256800
- 600 Series Frame (Painted steel)
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 loosing the screw and moving the strike up or down.

The screen lock is not a security device.

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**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.

No 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.
Service Technique

170 Sliding Patio Door
Reverse hand conversion

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.

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.

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.

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.

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).

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

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

Parts needed:
Replacement handle
Glazing tape
Fixed interlock screws
Setting blocks
The ADA interior handle replaces the standard handle. 2 point mortise lock, keeper and exterior pull remain unchanged to the standard 170 door.

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)

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.
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 x 1.5 = 18” ramp length.
- Pemko, Hager, and Handi-Ramp all offer ADA compliant ramps and have internet information available.
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.