



CASCADE AUDIO ENGINEERING

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## SB-MODEL-3D Interior Acoustical Door

### Installation Instructions

#### SB-MODEL-3D INSTALLATION INSTRUCTIONS

### Receiving:

1. Immediately inspect shipment for damage during transit i.e., damage caused by fork lifts, stacking, water stains etc. and disclose to delivery driver prior to signing for receipt. Upon signing for package CAE will no longer be able to credit for damaged merchandise.
2. Skid should contain the following: **A** door & jamb **B** casing **C** seal cover kit & extension **D** jamb set (if ordered).



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## SB-MODEL-3D Interior Acoustical Door

### Installation Instructions

3. Door hardware and installation kit will be sent via UPS and contains the following: shims, sealant, backer rod, heavy duty screws, acoustical sealant, and the door handles, locks, and trim hardware.



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*Continued on next page...*

## SB-MODEL-3D Interior Acoustical Door

### Installation Instructions

# Installation

## Installing:

1. Remove (4) screws and temporary threshold at bottom of door.
2. Verify door swing and stand door against wall on appropriate side. Verify rough opening width and height.
3. Cut bands that hold door together. Move door into rough opening by walking the door from left to right in small steps. Install door until back side of door trim is tight against face of wall.
4. **A** Measure from top of door to center of each hinge and record the distances. **B** Transpose the measurements on opposite side of door and mark locations. **C** Install shims directly behind hinges at these locations and tack into place.
5. Pre-drill and install heavy duty hinge screws provided into two hinge holes as shown. It is very important to make sure this side of door is level and straight adjusting with shims as necessary as you move from hinge to hinge. If the screws do not contact solid wood for required holding power it may be necessary to remove the door seal and install screws beneath the seal and reinstall it.



1



2



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## SB-MODEL-3D Interior Acoustical Door

### Installation Instructions

6. **A** Shim the reveal on latch side of door between the door and jamb to 1/8". **B** Scribe a horizontal line from center of latch in door to centerline of door strike respectively.  
**C** Raise or lower the jamb to align. Install shims and nail or screw into jamb.



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Interior Acoustical Door

## Installation Instructions





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# SB-MODEL-3D

Interior Acoustical Door

## Installation Instructions



5



6A

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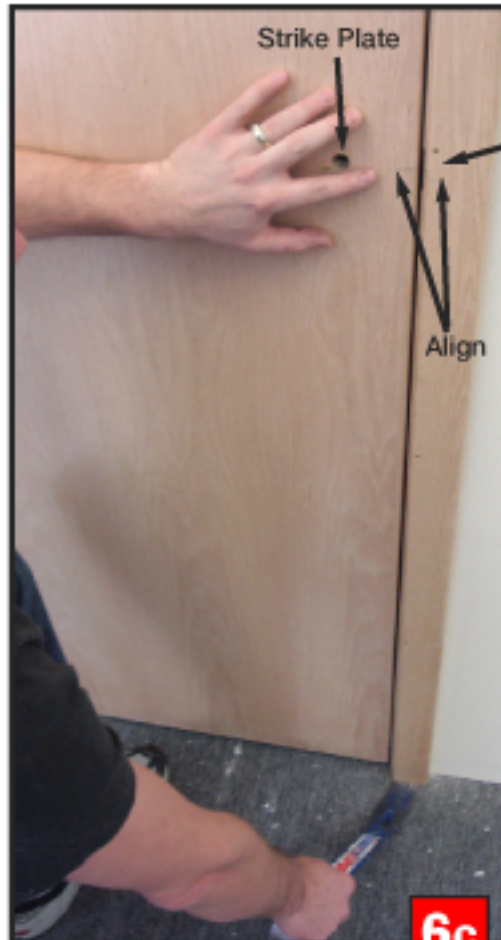
# SB-MODEL-3D

Interior Acoustical Door

## Installation Instructions



**6B**



**6c**

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## SB-MODEL-3D Interior Acoustical Door

### Installation Instructions

# SOUND SEALING

## Sound Sealing:

1. Remove excess shim with a wood chisel
2. **A** Install sealant backer rod into space between doorjamb and rough opening a minimum of 1' deep.  
**B** Squeeze in acoustical sealant.



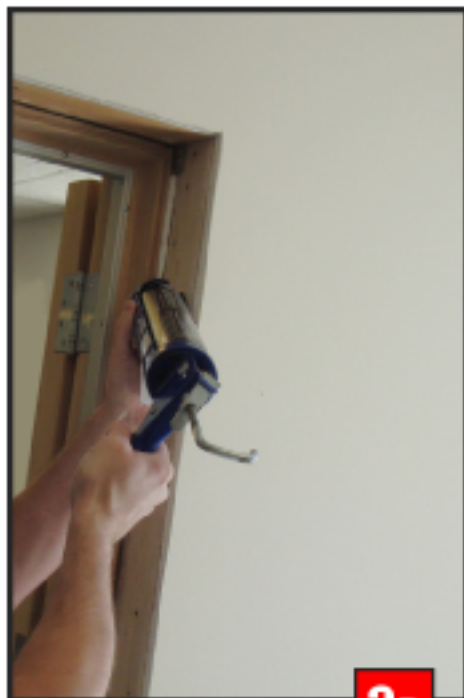
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# SB-MODEL-3D

## Interior Acoustical Door

### Installation Instructions



**2B**

*First seal with extension jamb kit (optional).*



**2B**

*Single seal MT without jamb or secondary seal with extension jamb.*

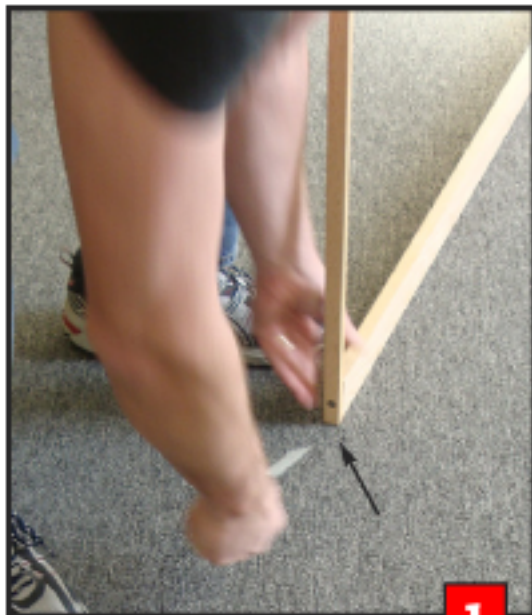
## SB-MODEL-3D Interior Acoustical Door

### Installation Instructions

# TRIM INSTALLATION

## Trim Installaton:

1. Remove temporary support from bottom of pre-assembled trim casing. Center on door opening and pin nail into place to hold.
2. Fasten to jamb with trim screws provided.
3. Fill holes with wood putty and sand.





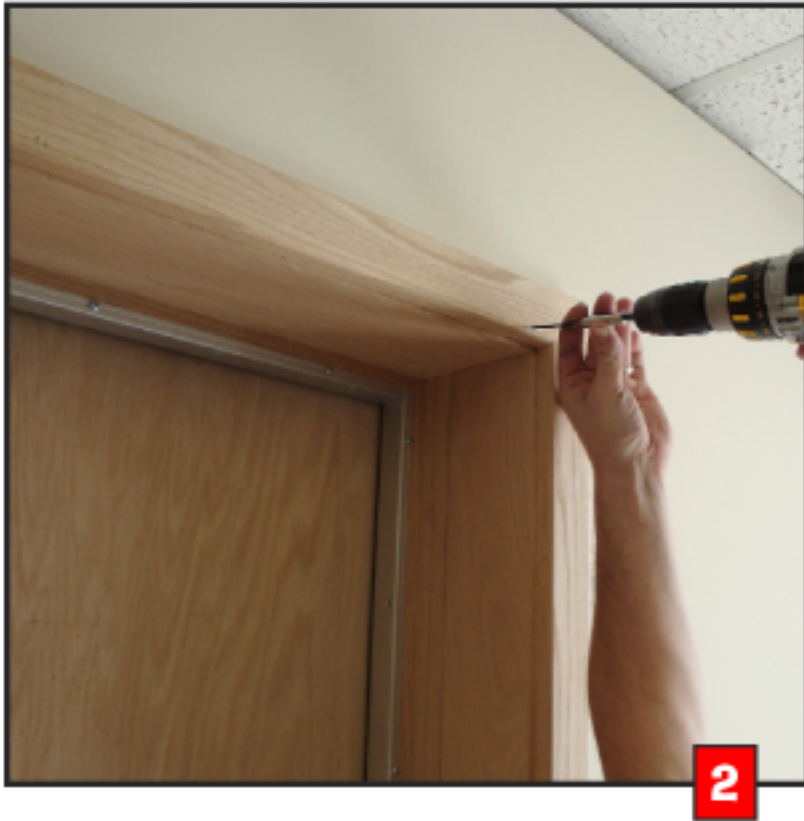
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# SB-MODEL-3D

## Interior Acoustical Door

### Installation Instructions



2

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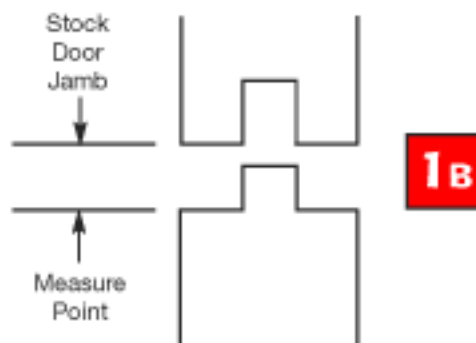
## SB-MODEL-3D Interior Acoustical Door

### Installation Instructions

# OPTIONAL EXTENSION JAMB INSTALLATION

## Extension Jamb Installation:

- 1. A** Measure distance from standard doorjamb to edge of finished wall. **B** Cut down extension jamb kit accordingly remembering not to measure from the top of the tongue but rather the base as the tongue is inserted into the standard doorjamb.
- 2.** Install wood glue into the groove in the standard door frame and insert extension jamb and nail into place.
- 3.** Install wood putty at joint and sand smooth.



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## SB-MODEL-3D

Interior Acoustical Door

Installation Instructions



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# SB-MODEL-3D

## Interior Acoustical Door

### Installation Instructions

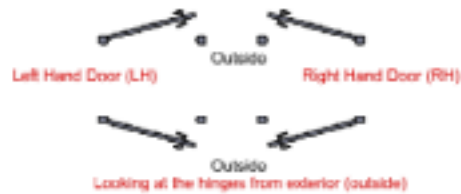
# INSTALL HANDLE & TRIM SET

## Install Handle and Trim Set:

1. Follow instructions provided by Wink Haus.

### 1.) Pre-determine

- a) Interior / Exterior of the door unit
- b) In-swing / Out-swing door



### 2.) Activate One Motion Function on the INTERIOR

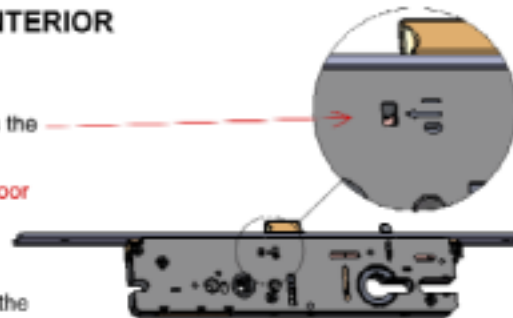
#### One Motion Indicator Pin

One Motion Function is active on the side of the lockbox where the Indicator Pin projects towards the lock housing.

**Note:** Always activate on the INTERIOR of the door unit!

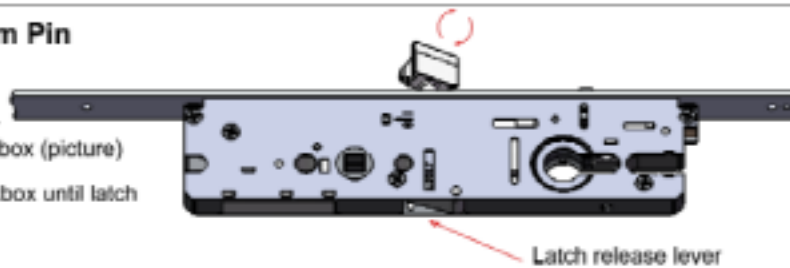
#### To switch the One Motion Function:

Firmly push Indicator Pin to the opposite side of the lockbox (click sound) using a screw driver.



### 3.) Adjust Latch and Anti-Slam Pin

- To turn Latch:
1. Push latch into lockbox
  2. Press latch release lever
  3. Release latch out of lockbox (picture)
  4. Turn latch 180 degrees
  5. Push latch back into lockbox until latch release lever engages



Beveled edge of the Anti-Slam Pin has to be aligned with the Latch



- To turn Anti Slam Pin: Use a 6mm open end wrench to rotate the Anti-Slam Pin 180°

# SB-MODEL-3D

## Interior Acoustical Door

### Installation Instructions

#### 4.) Install Bottom Extension

1. Align faceplate at the bottom of sash
2. Place Extension into Euro-Groove as shown
3. Fix Extension with # 8 stainless steel screws



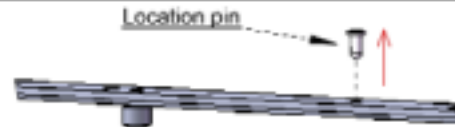
#### 5.) Install Middle Extension

1. Join Bottom and Middle Extension at an angle
2. Place middle Extension into Euro-Groove as shown
3. Fix Middle Extension with # 8 stainless steel screws



#### 6.) Remove location pins

Make sure to remove the location pins before first handle operation.



#### 7.) Install Top Extension / Shoot-Bolt

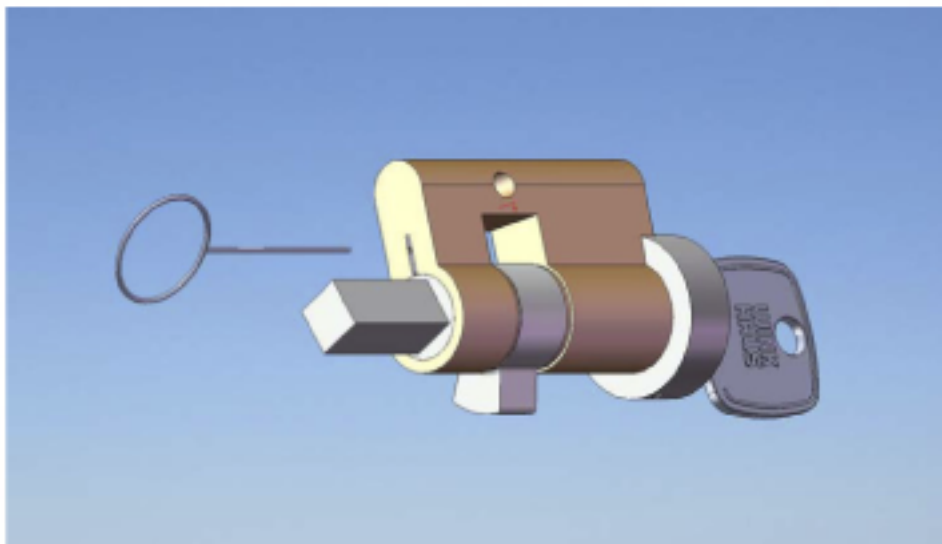
1. Extract locking points via handle operation
2. Fully extract Shoot-Bolt
3. Join Middle Extension and Shoot-Bolt in an angle as shown
4. Place Shoot-Bolt into Euro-Groove
5. Fix Shoot-Bolt with # 8 stainless steel screws



# SB-MODEL-3D Interior Acoustical Door

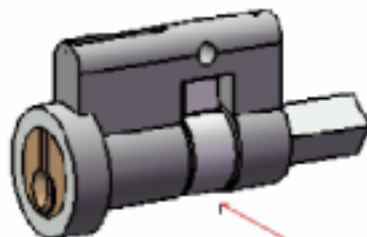
## Installation Instructions

### Eclipse Cylinder™ Installation Preparation

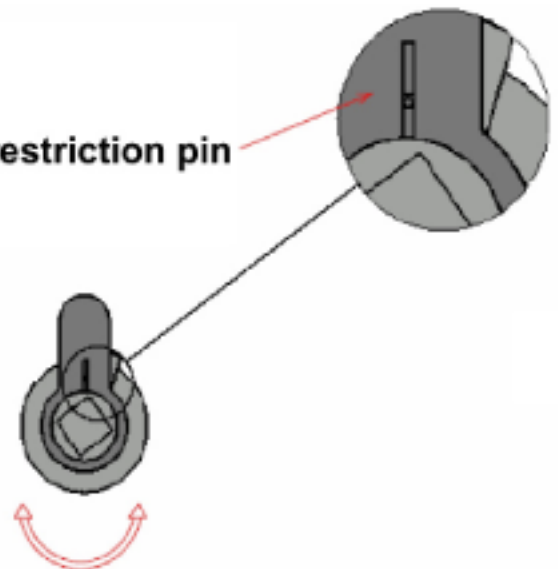


**Align cylinder cam with cylinder housing:**

- insert key**
- insert needle tool in slot and push up restriction pin**
- rotate cam until it aligns with housing**



Cylinder Cam



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# SB-MODEL-3D

## Interior Acoustical Door

### Installation Instructions

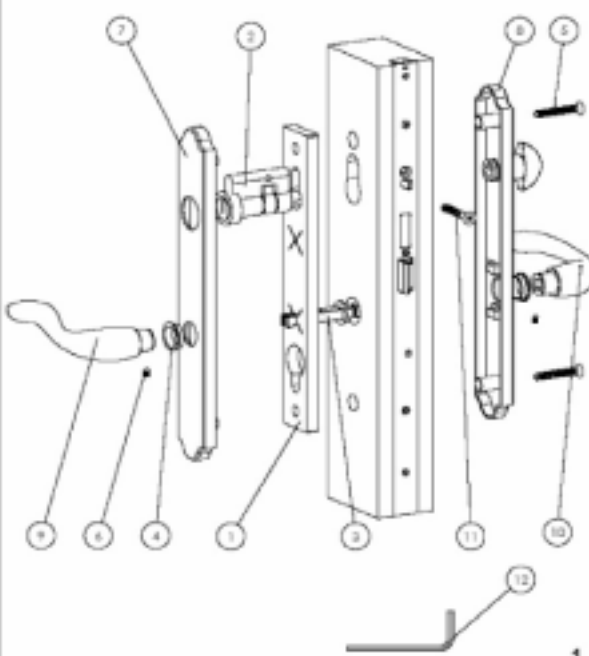
Part# 1005511

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www.winkhaus.us.com



One Motion™ Trim Set  
Installation Instructions

www.winkhaus.us.com



1

Item #	Description	Qty.
1	Exterior Gasket	1
2	Eclipse Cylinder™	1
3	Full Spill Spindle	1
4	Guide Ring	2
5	M5 Escutcheon Screw	2
6	M6 Set Screw	2
7	Exterior Escutcheon Plate	1
8	Interior Escutcheon Plate With Knob	1
9	Exterior Handle	1
10	Interior Handle	1
11	M5 Cylinder Screw	1
12	3 mm Allen Wrench	1

**2**

**Operating the Wireless One Motion™ Multi-Point Locking System**

**Preparation:**  
1. Lift the upper portion of the door to allow access to the lock.

**Locking:**  
2. After opening the door, use the wireless system to lock the door. The door will lock automatically when the wireless system is activated. The door will remain locked until the wireless system is deactivated.

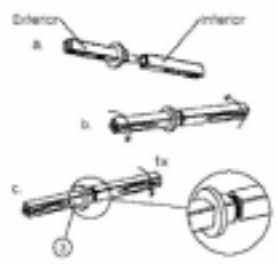
**Unlocking the One Motion™ System:**  
1. Press the button on the handle to unlock the door. The door will unlock automatically. The door will remain unlocked until the wireless system is activated.

**From the Factory:**  
1. The door is shipped from the factory with the door locked. To unlock the door, use the wireless system to deactivate the door lock.

**Notes:**  
1. The door is shipped from the factory with the door locked. To unlock the door, use the wireless system to deactivate the door lock.

**3**

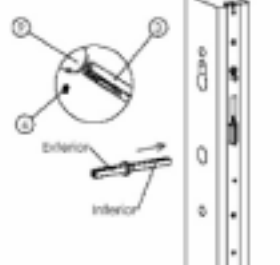
**Spindle Assembly**



- Take interior and exterior spindle pieces.
- Screw both pieces together until they meet. **DO NOT OVERTIGHTEN.**
- Reverse (unlock) the pieces one complete revolution until set screw grooves align.

**4**

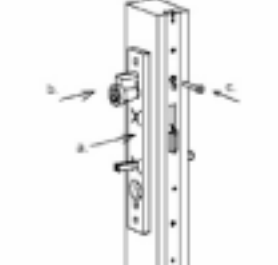
**Spindle Orientation**



**NOTE:**  
When inserting the spindle [3] into the lock, orient the spindle groove to align with the set screw in the handle, which faces down. Insert spindle from the exterior to ensure the spindle washer is located on the exterior side of the lock case.

**5**

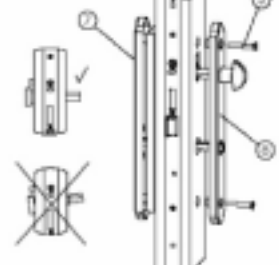
**Gasket and Eclipse Cylinder™**



- Place gasket over spindle from exterior.
- Insert Eclipse Cylinder™ through gasket. (See installation instructions in cylinder box).
- Loosely fasten cylinder screw.

**6**

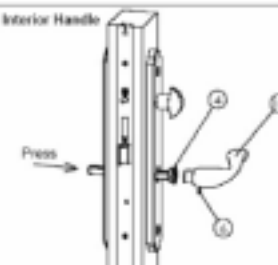
**Escutcheon Plates**



Apply exterior escutcheon plate (over gasket) first. Add interior escutcheon plate, aligning the knob vertically over Eclipse Cylinder™ knob (unlocked position). Be sure to keep cylinder level. Loosely fasten M5 escutcheon screws.

**7**

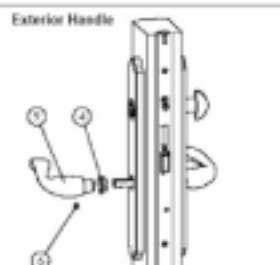
**Interior Handle**



Apply guide ring [4] to escutcheon plate. Mount interior handle to spindle while holding spindle from the exterior to ensure the spindle is seated flush against the lockbox. Firmly tighten handle set screw.

**8**


**Exterior Handle**



Apply guide ring [4] to escutcheon plate. Mount exterior handle to spindle with set screw and tighten firmly. Check for smooth operation of handle and cylinder before tightening cylinder and escutcheon screws.

**9**

**Record Key Number**



For security purposes the cylinder can only be removed with the key. Therefore it is recommended to write down the five digit key number and store in a safe place. If the key is lost, contact Winkhaus with the designated key number for replacement.

**10**

**Lock Maintenance:**  
Lubricate lock as needed. Use exclusively add free and non-resinous grease or oil. Corrosion areas may require more frequent lubrication. Clean the lock and cylinders as needed.

**Trim Maintenance:**  
Your Winkhaus Door Hardware Trim has been manufactured of high quality material with various coatings applied for protection and durability. Climate, location and exposure to corrosive environments such as industrial areas, pesticides, herbicides or salts will affect the amount of care required to maintain the hardware's beauty and characteristics. Clean your hardware as needed, using a mild detergent and a soft cloth. Avoid abrasive cleaners, acids or brushes.

**Caution:**  
Do not apply harsh chemicals and cleaners such as Hydrogen Chloride (hydrochloric acid), Sodium Hypochlorite (chlorine bleach) or Hydroperoxy Acids. Acid mineral deposit removed by hardware. Do not use organic solvents for cleaning purposes. Coating damage could occur.

The above list of harsh chemicals and cleaners are only a guideline - for more information contact Winkhaus.

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# SB-MODEL-3D

## Interior Acoustical Door

### Installation Instructions

#### Trouble Shooting Guide

##### Open Door Functional Test

Step	Action	Proper Function	Unable to function properly? Possible Cause:	Possible Solution
1	Open door			
2	Press and hold anti-slam pin			
3	Lift interior lever	All locking points engage	A. Spindle over tightened B. Spindle not inserted properly C. Faceplate screws installed crooked D. Debris in eurogroove E. Connectors not properly joined/limiting travel	Install spindle per trimset instructions Install spindle per trimset instructions Ensure screws are installed straight Clean out eurogroove Ensure all connectors are properly connected
4	Turn interior knob to lock the system	Knob should turn 90° easily	A. Escutcheon plates not aligned properly/binding B. Handle not lifted fully	Loosen, adjust, and retighten escutcheon plate screws Lift handle fully to 37 degrees
5	Check exterior handle function by pressing down	System should remain locked	A. One Motion™ function activated on wrong side B. Solid spindle used instead of split spindle C. Split spindle not installed correctly	Switch One Motion™ function on lockbox (per installation instructions) Install proper split spindle Install split spindle per trimset instructions
6	Check interior handle function by pressing down	System unlocks and all locking points fully retract	A. One Motion™ function activated on wrong side B. Connectors not properly joined/limiting travel	Switch One Motion™ function on lock Ensure all connectors are properly connected

##### Closed Door Functional Test

Step	Action	Proper Function	Unable to function properly? Possible Cause:	Possible Solution
1	Close door	Door should close easily	A. Door is not plumb or square B. Weather stripping too restrictive C. Latch strike not properly adjusted	Adjust door Adjust weather stripping Adjust latch strike
2	Lift interior handle to engage locking points	Handle does not fully lift up and locking points do not fully extend	A. Repeat Section 3 of Open Door Functional Test B. Strikes and locking points are not properly aligned C. Anti-slam pin does not reach strike sufficiently	Door not plumb and square or sagging – adjust hinges or reinstall door Adjust strike positions as necessary Airgap too big, adjust hinges or check door to be plumb and square

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## SB-MODEL-3D Interior Acoustical Door

### Installation Instructions

# ADJUSTING SOUND SEALS

## Adjusting Sound Seals:

- 1. A** With door installed and latched, use a Phillips head screw driver and turn to adjust compression of neoprene seal against door. Keep compression moderate and do not over tighten. If seals are adjusted to tightly against door it will make closing and latching the door difficult and is unnecessary. **B** After adjustments are complete remove covering on two faced tape on seal covers and install starting with the top.
- 2.** Bottom drop seal comes factory set at its upmost position. With a Phillips screw driver gradually turn out screw in steps 360° at a time to increase seal pressure against floor. Watch as door closes and seal activates and contacts floor. Do not over increase pressure or damage to the seal may result.



# SB-MODEL-3D

Interior Acoustical Door

## Installation Instructions

