



# Theory





Principles

Mount Overviews

Trouble Shooting

Spring Turn Table

**Objective:**

On completion, a trainee should be able to describe in detail theoretical applications of the RetractaView.



# Identify Install Method

## First Thing's First

When a Wizard gets to a job site, it's time for action. But after checking in with the homeowner, what do we do first? Determine the swing direction of the door. This will allow you to determine the install position. This is easy to understand: retractable screens are installed in the position opposite of the doors swing. The following chart illustrates this:

	Swing Direction	
Install Position	IN	OUT
	OUT	IN

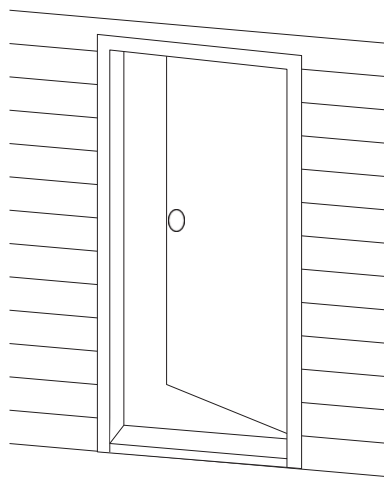
## Off the Hinges

Wizard Retractable Screens are installed on the same side of a door as its hinges.

## Moulding

In a perfect world, the moulding would be flush on the same plane around the install location, giving you an easy install.

When everything around the door is flush on the same plane, sill adapters are not necessary.





# Identify Install Method

## Threshold

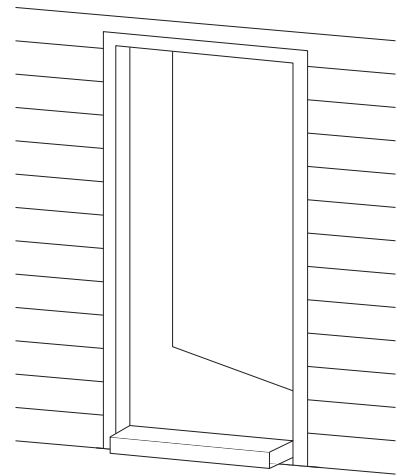
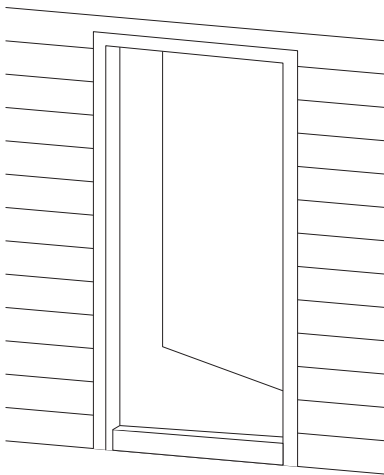
If the moulding is not on the same plane all the way around, consider how the threshold relates to the moulding to determine the install method and sill adapters required.



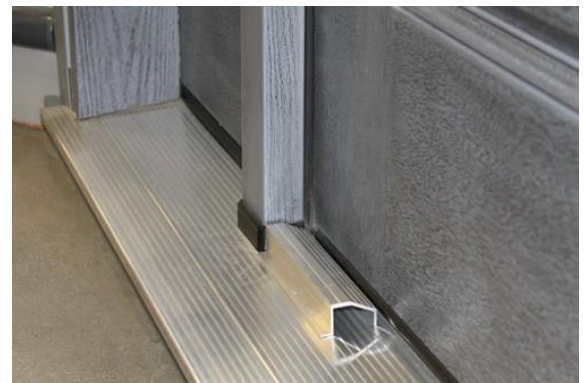
Moulding extends past the threshold



Threshold extends past moulding



Exterior Mount



Midway Mount



# The Helpful Square Sill Adapter

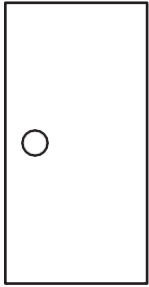
## Square Sill Adapter

If there is no mounting surface for the upper track, the square sill adapter is perfect for flushing with the jambs of the door.

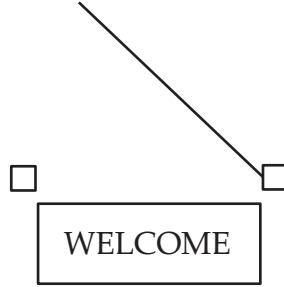




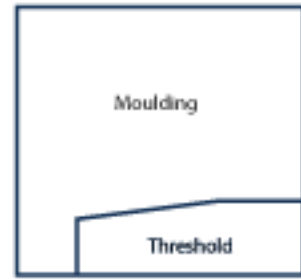
# Inswing Install Methods



Single



Inswing



Moulding extends past threshold

## Exterior Mount:

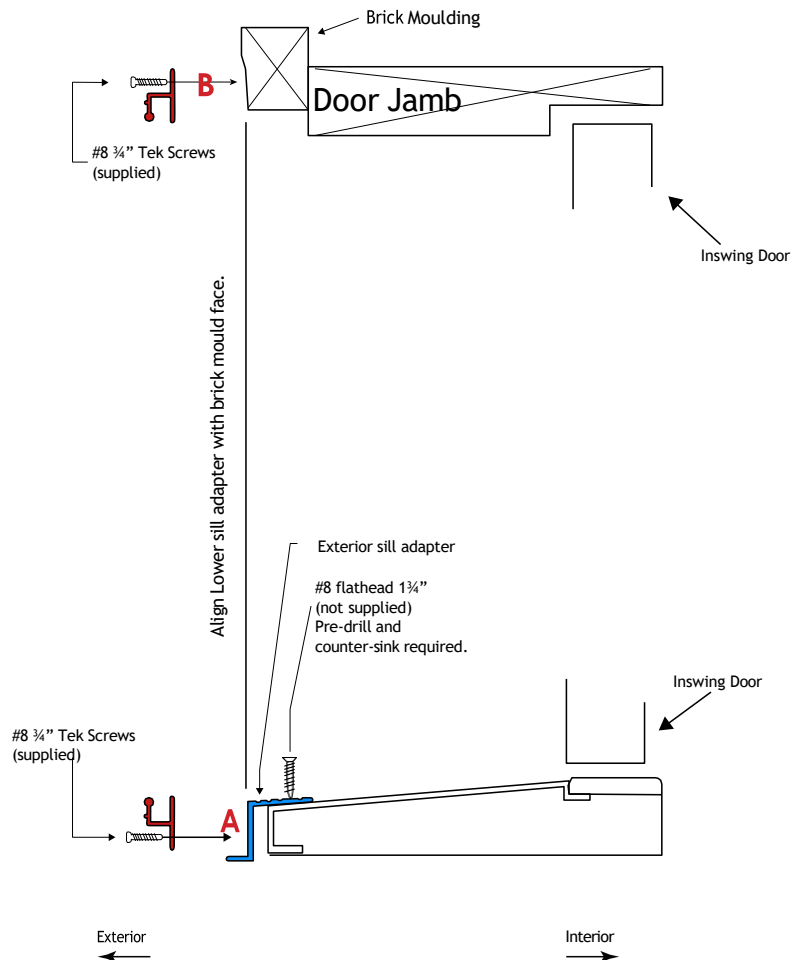
The first mount we should be easily able to recognize is the exterior mount. This method is used on Inswing doors when the moulding extends past the threshold. This mount requires an **Exterior Sill Adapter**.

## Measuring

To find the height of a door for an exterior mount, measure from the top of the threshold (A) to the beginning of the contour on the doors upper moulding (B).

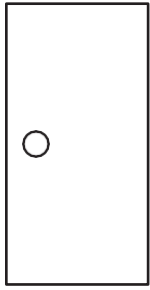


"Inswing Exterior Mount"

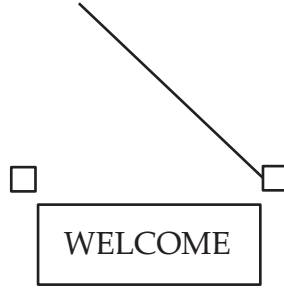




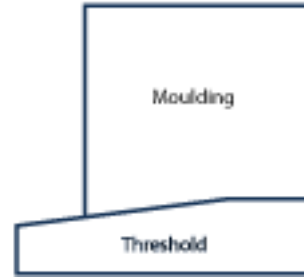
# Inswing Install Methods



Single



Inswing



Threshold extends beyond moulding

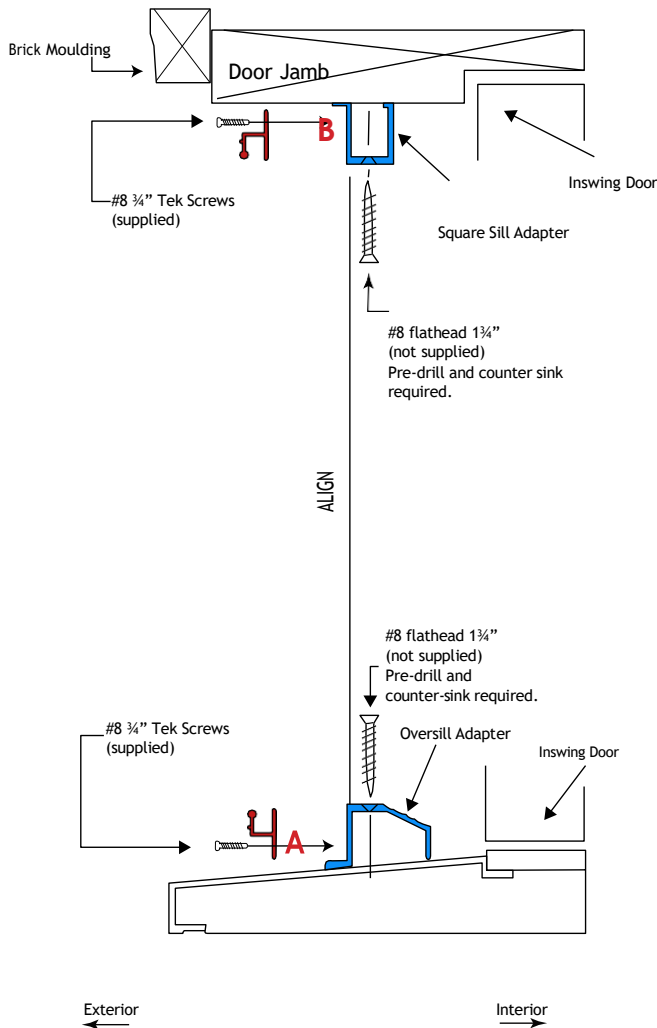
## Midway Mount:

When the door's threshold extends past the moulding, it means we are going to be using a midway mount. A midway mount requires an **Over Sill Adapter** and possibly a **Square Sill Adapter**.

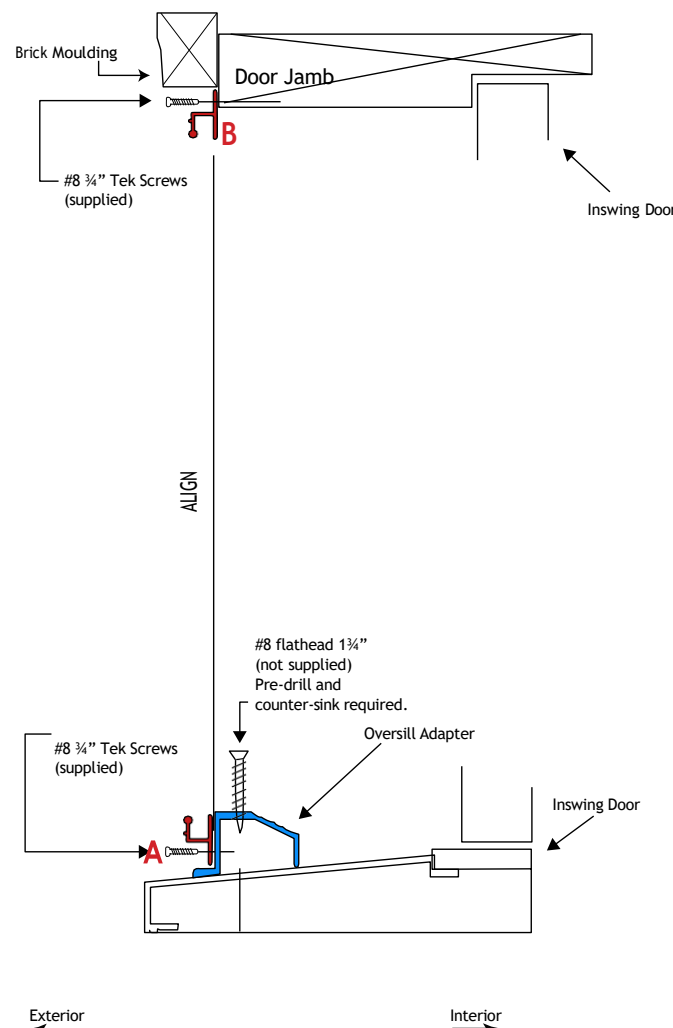


"Inswing Midway Mount"

### With Square Sill Adapter

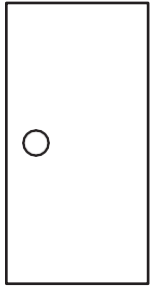


### Without Square Sill Adapter





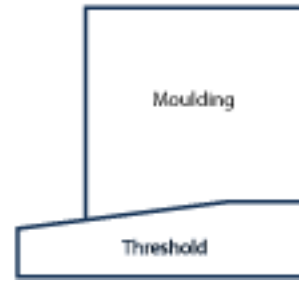
# Out Swing Install Methods



Single



Outswing



Threshold extends beyond moulding

## Outswing Midway Mount:

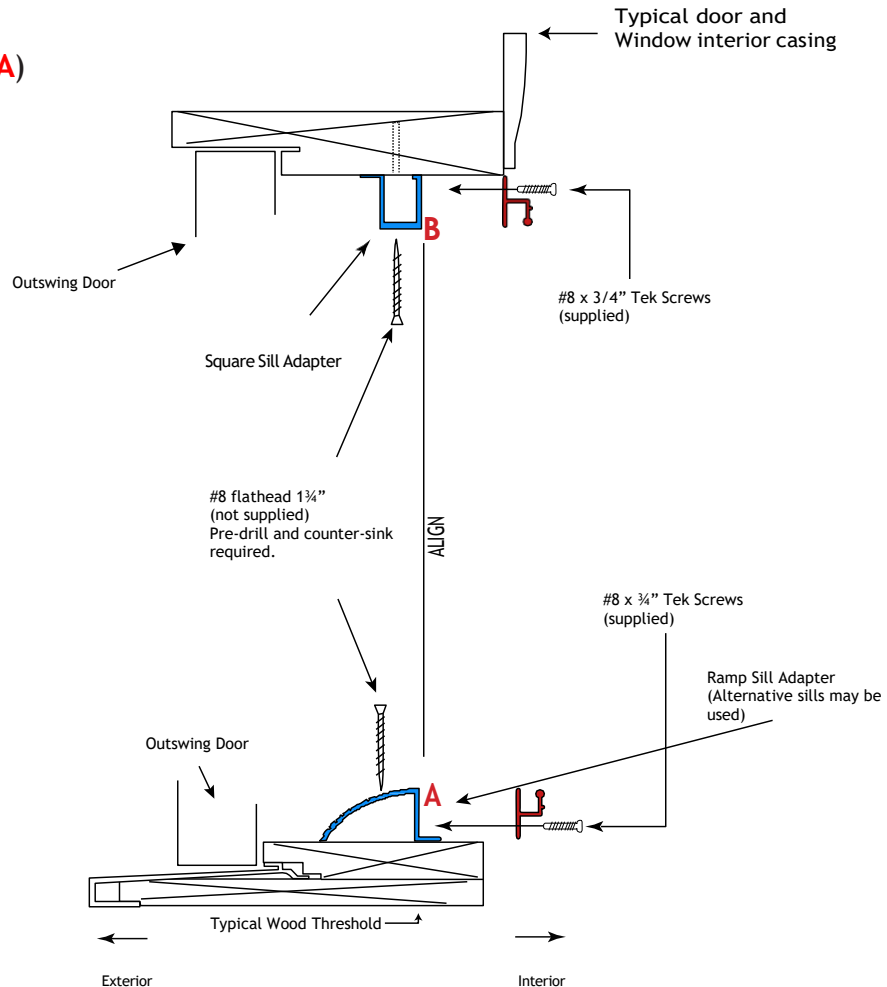
When the door's threshold extends past the moulding, it means we are going to be using a midway mount. An Out Swing Midway Mount requires an **Over Sill Adapter** (or **Ramp Sill Adapter**) and a **Square Sill Adapter**.

## Measuring

To find the height of a door for an exterior mount, measure from the top of the threshold (A) to the inside top of the jamb (B).



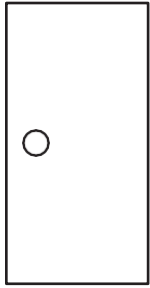
"Outswing Midway Mount"







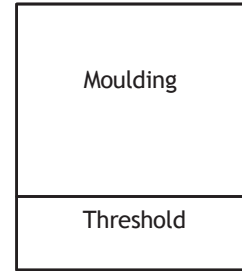
# Out Swing Install Methods



Single



Outswing



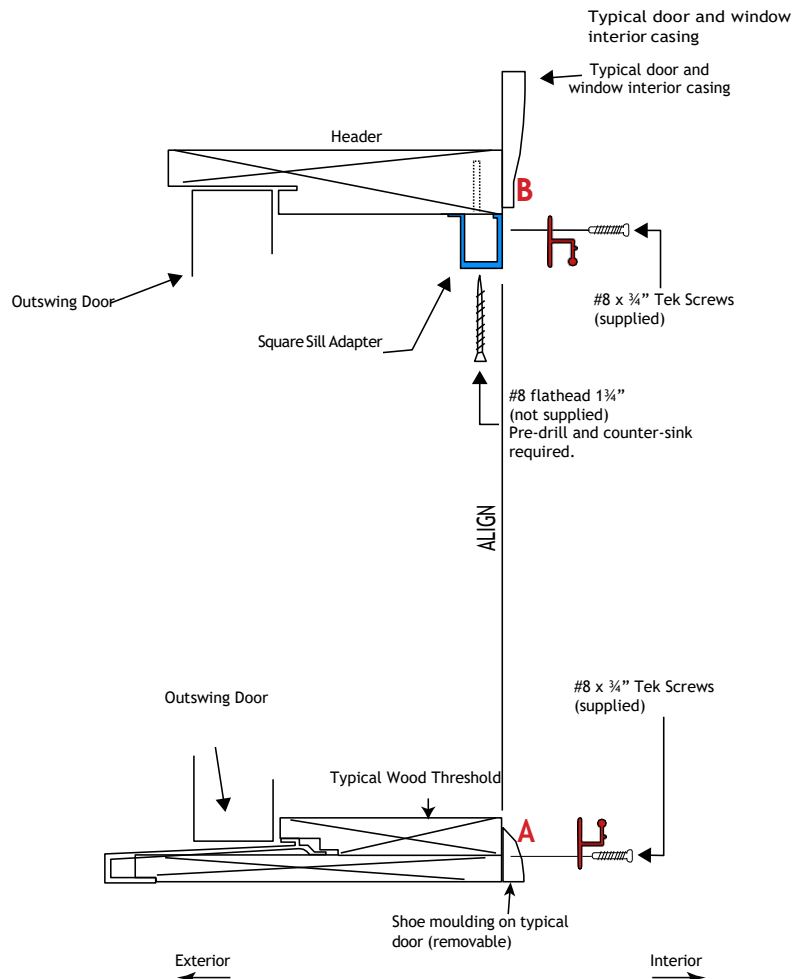
Threshold is even with Moulding

## Outswing Outer Frame Mount:

When the door's threshold is even with its moulding, we can use an Outer Frame Mount. A **Square Sill Adapter** is often required.

## Measuring

To find the height of a door for an exterior mount, measure from the top of the threshold (A) to the inside top of the jamb (B).





# French Door Install Method



“French Door Install”

## Can we accommodate French Doors? Oui!

When you come across a French door, don't panic! Identify the mount method required in the same way as single door. Look at the moulding and threshold.

### What's the Difference?

French doors meet in the middle and use thick mohair along the pull-bar to ensure a great seal.



French doors use two handle sets and two magnet assemblies. You will need to reverse the polarity of one of the magnets.



French pins are used to make one door passive while the other is active.





# The One Cut Method

## On the Spot

Wizards love to get the job done. So, when they show up at a customer's home with the gear, materials, and time to install without the need to put anything into production, they need not return.

Customers love this fast response approach.



“The One Cut Method”

## Step 1

Orient as shown. Hook tape onto left housing cap, then measure and mark desired length of the unit. Now deduct  $1/2$ " and mark housing.



## Step 2

Remove the left & right pull-bar endcaps.



## Step 3

Remove the right housing cap and the end plug.



## Step 4

Align flush with each other the pull-bar, housing, roll-tube, and mesh *carefully*.





# The One Cut Method

## Step 5

Cut along the mark using a chop saw.



## Step 6

Slide the pull-bar back down. Snip excess mesh and corner of spline 45 degrees.



## Step 7

Put it together in perfect reverse order.  
End plug, right housing cap, and left & right pull-bar endcaps.

\*NOTE: You may have to cut off an extra 1/16" of the roll-tube & mesh. If the spring unwinds, follow through with cutting. Then rewind.

## Now Work your Magic

You've cut the retractable screen to the proper height. Now it's time to install it.



## What's the worst that can happen?

Gaps, sticky tracks, and frames that aren't square.

## Bag of Tricks


Every door is a little bit different, so you're going to be tossed some curveballs. A Wizard must be a problem solver, but we have a nice bag of tricks to help.

### Shims:

Sometimes things are just a little out of line. Using a shim is great for small adjustments. Bumper pads, plates from magnet assemblies, and self-sourced u-shims are fine options.



This installer shims a track using part of the magnet assembly.



### Magnets:

The magnets can be too strong for certain customers. Remove a plate to reduce its strength.



**"Adjusting a Magnet Assembly"**

### Mohair/Bug flaps:

These can be an easy solution to eliminating gaps.



# Spring Turns

## Wind-up:

This table shows the suggested number of spring turns based on unit size:

Height	Without slow-close	With slow-close
Under 84"	15	18
84" - 92"	15	20
92" - 96"	15	22