



**Wizard**  
Industries Inc.

**Wizard Theory**





Mount Overviews  
Trouble Shooting

Quiz



# Introduction to Theory

**Prerequisite:**

Wizard Theory is meant to be taken after you have completed Wizard 101.

**Objective:**

On completion a trainee should be able to describe in detail theoretical applications of Wizard retractable screens.



# Identify Install Method

## First Things First

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

|                  |                 |            |
|------------------|-----------------|------------|
|                  | Swing Direction |            |
|                  | <b>IN</b>       | <b>OUT</b> |
| Install Position | <b>OUT</b>      | <b>IN</b>  |

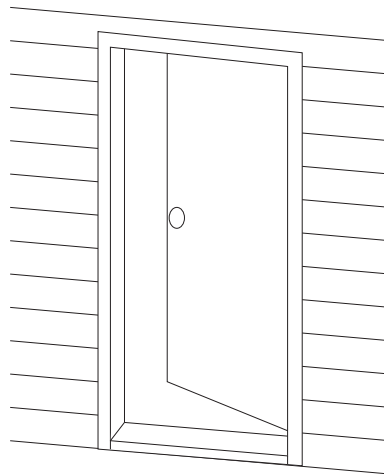
## Off the Hinges

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

## Moulding

You need to observe the moulding around the install location. In a perfect world this will be flush all the way around the door, giving you an easy install.

When everything around the door is flush you don't need any sill adapters at all.





# Identify Install Method

## Threshold

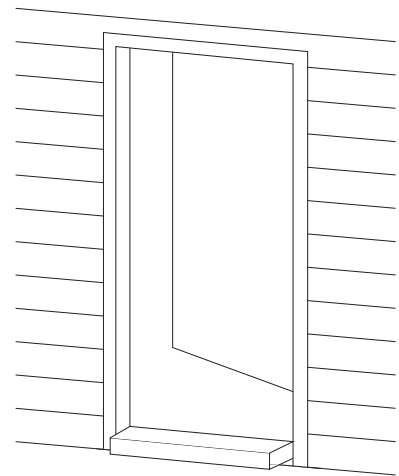
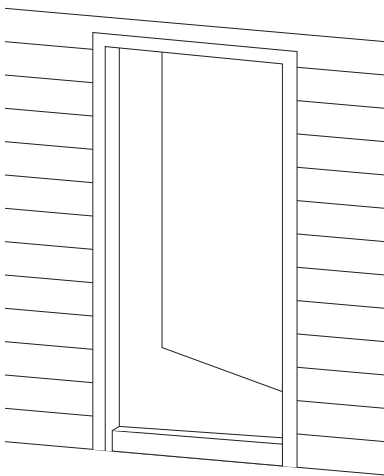
If the moulding is not flush all the way around you need to determine how the threshold relates to the moulding to determine the install method and sill adapters required.



Moulding extends past the threshold



Threshold extends past moulding



Exterior Mount



Midway Mount



# The Helpful Square Sill Adapter

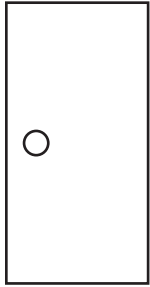
## Don't be a Square

If you need a mounting surface for the top track, the square sill adapter is perfect for flushing up the top of a doors jamb.

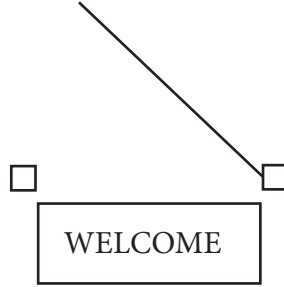




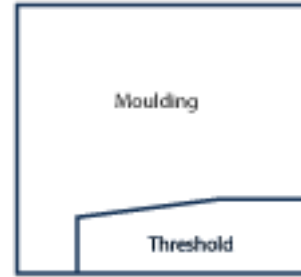
# In Swing Install Methods



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 In swing doors when the moulding extends past the threshold. This mount requires the an **Exterior Sill Adapter**.

Watch the install video "Single In Swing Exterior Mount".

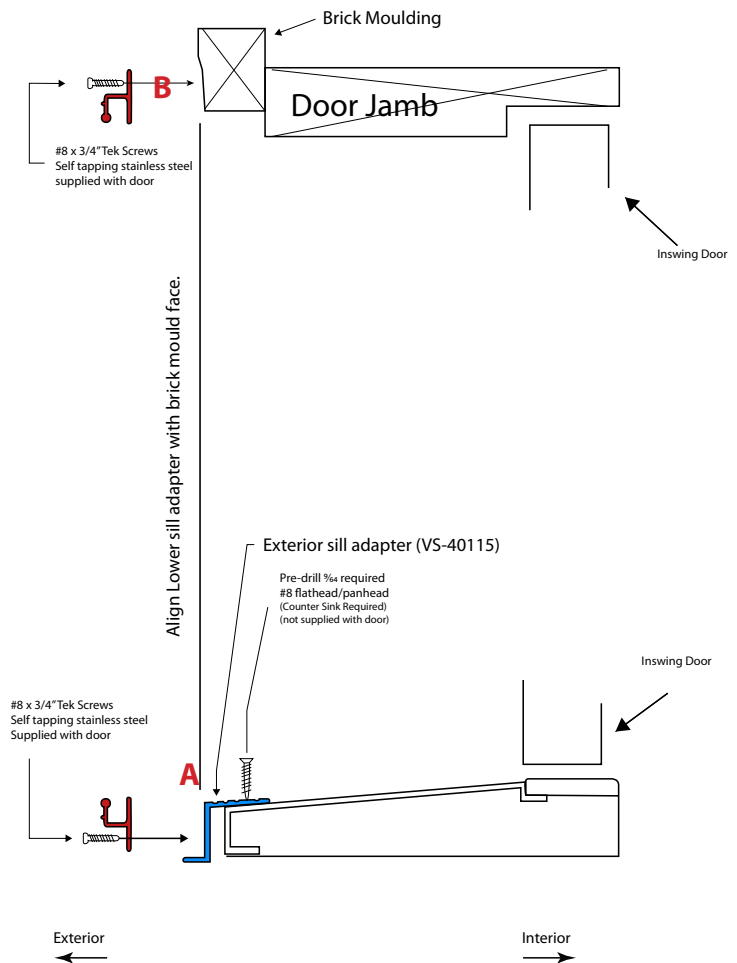
Installation guide "Single In Swing Exterior Mount".

## 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).

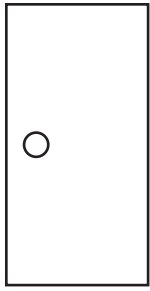


"Inswing Exterior Mount"

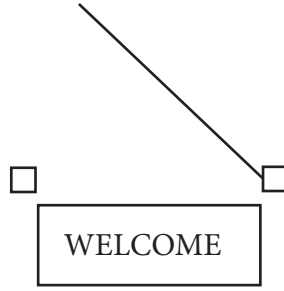




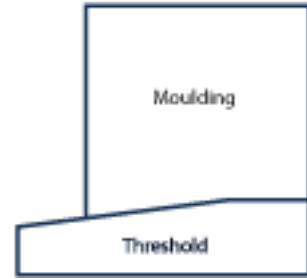
# In Swing Install Methods



Single



Inswing



Threshold extends past moulding

## Midway Mount:

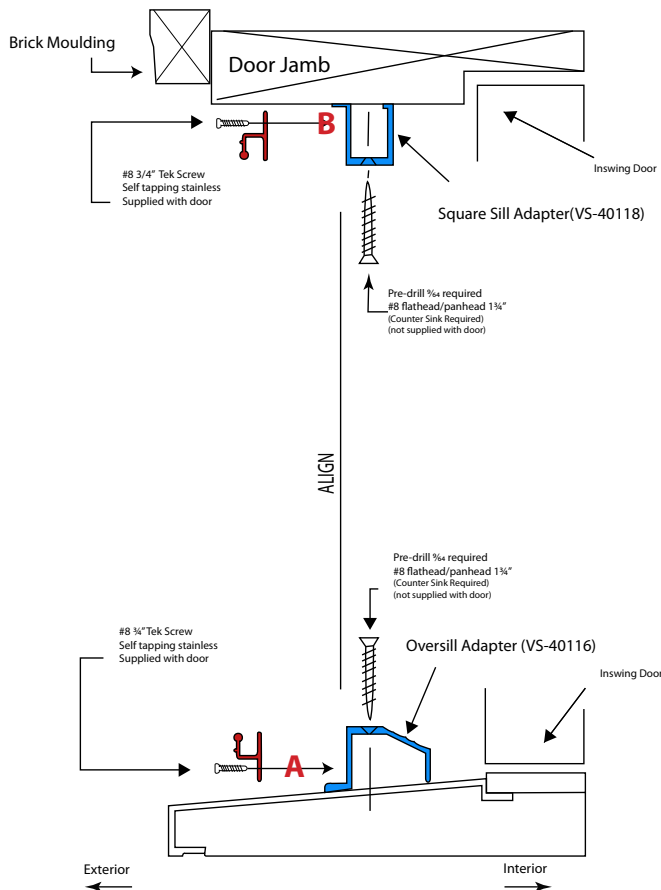
When the door's threshold extends past the moulding it means we are going to be using a midway mount. A midway mount requires a **Over Sill Adapter**. You may also need a **Square Sill Adapter**.



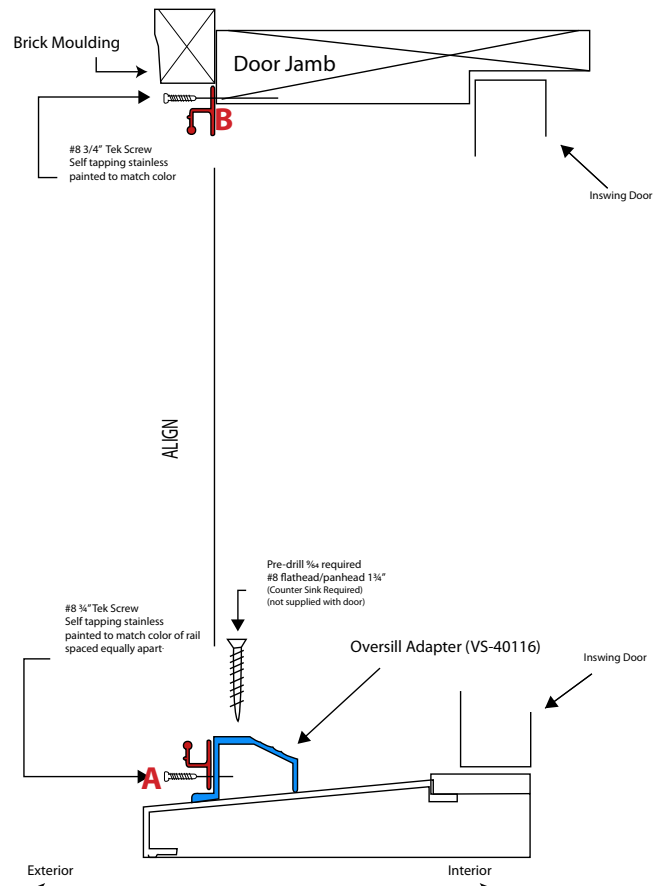
"Inswing Midway Mount"

Installation guide "Single In Swing Midway Mount".

### With Square Sill Adapter



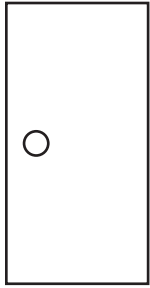
### Without Square Sill Adapter







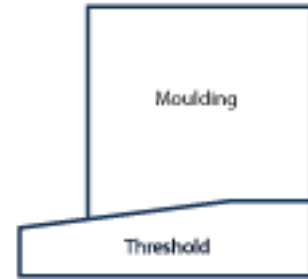
# Out Swing Install Methods



Single



Outswing



Threshold extends past moulding

## Out Swing Midway Mount:

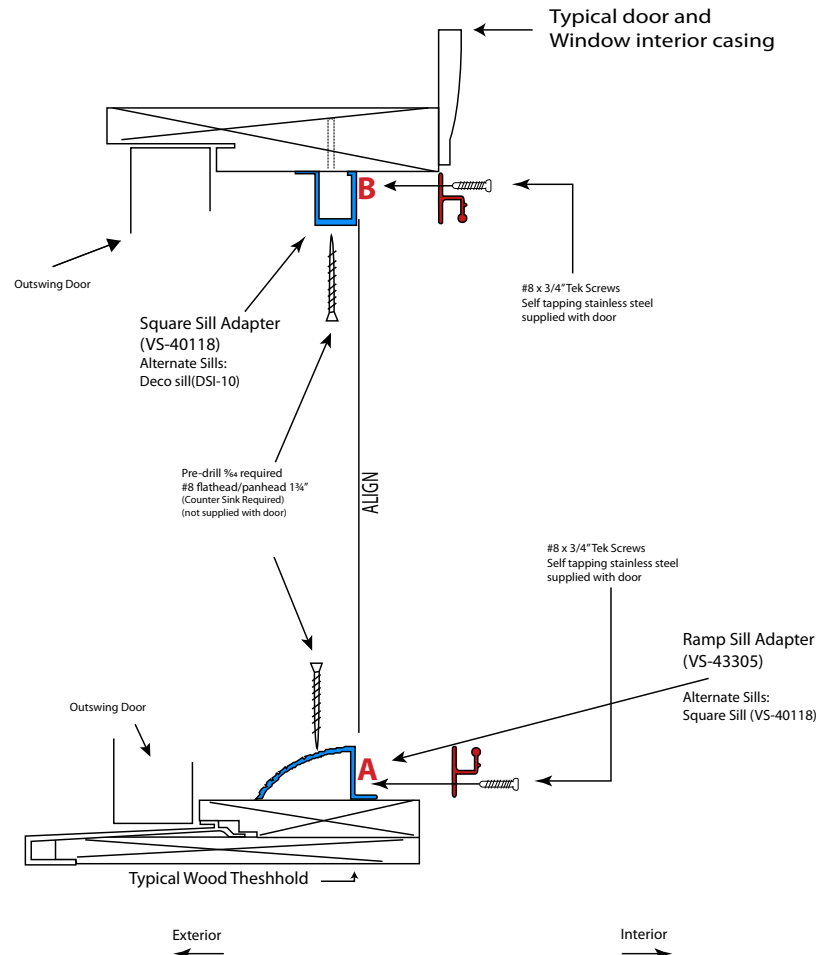
When the door's threshold extends past the moulding it means we are going to be using a midway mount. An Out Swing Midway Mount requires a **Over Sill Adapter (or Ramp Sill Adapter) and a Square Sill Adapter**.

Watch the install video "Single Out Swing Midway Mount".

The installation guide "Single Out Swing Midway Mount" provides a step by step of this method.

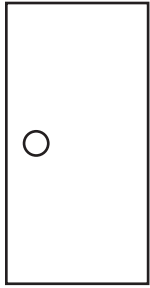
## Measuring

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).





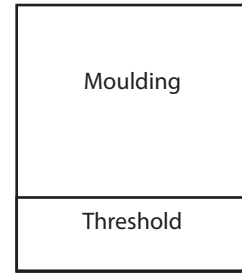
# Out Swing Install Methods



Single



Outswing



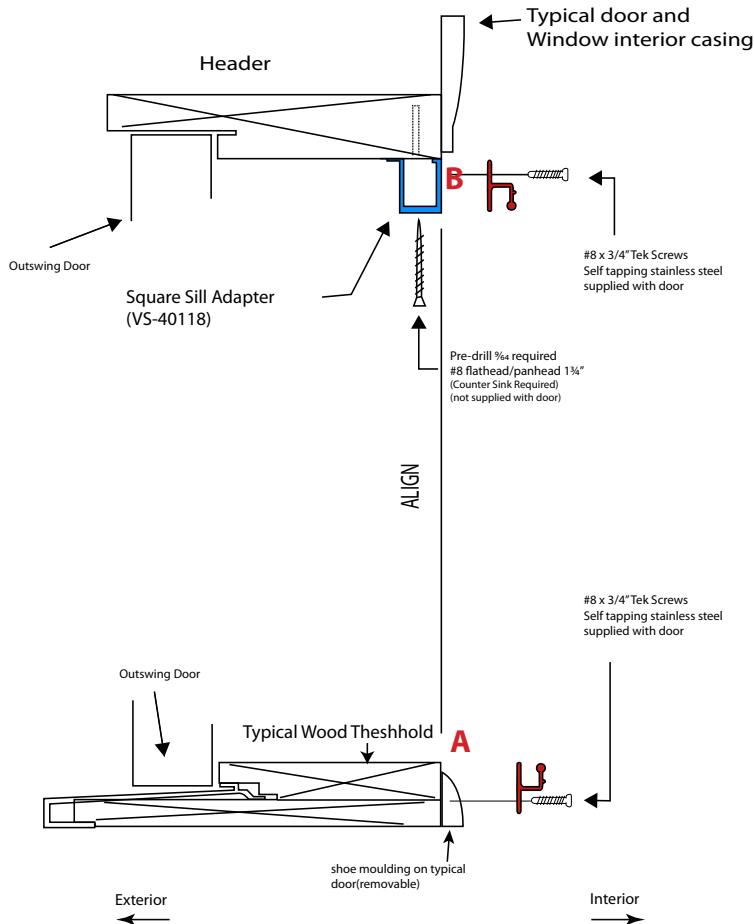
Threshold is even with Moulding

## Out Swing 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).





# Make it a Double

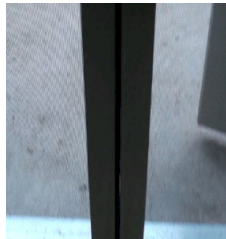


## Can we do French Doors? Oui!

When you come across a french door, don't panic! You don't need to learn the language. You identify the mount method required in the same way as single door. Look at moulding, and threshold.

## Whats the Diff?

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



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



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





# The One Cut Method

## On the Spot

Wizard's love to get the job done. So when they show up at a measure and have the gear, materials, and time to do the install without the need to put anything into production it makes them very happy.

Customers love this fast response approach.



"The One Cut Method"

### Step 1-Measure

From the left housing cap measure the desired length of the door. Now deduct 1/2" and mark housing.



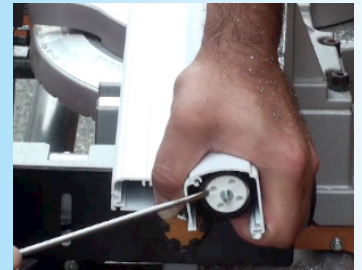
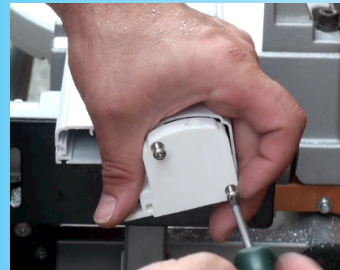
### Step 2- Remove Endcaps

Remove the left and right end caps.



### Step 3- Remove Right Housing Cap and End Plug

Remove right housing cap, and the end plug.



### Step 4- Align Pullbar, Mesh and Housing

Slide the pull bar to be in line with the housing. Carefully adjust the mesh and rolltube to also be flush.





# The One Cut Method

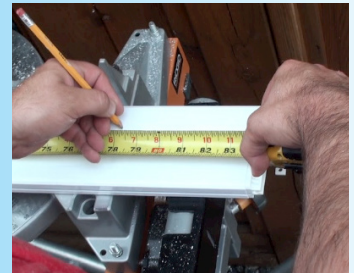
## Step 5-Cut

Use a chop saw and cut along your line.



## Step 6-Slide and Snip

Slide the pull bar back down. You will have to snip the excess mesh and spline.



## Step 6-Together Again

Put it together in perfect reverse order  
End plug, Housing Cap, Right Endcap, Left Endcap

## Now Work your Magic

You've got the retractable screen to the proper height. Now get the thing installed.



## What's the Worst that can Happen?

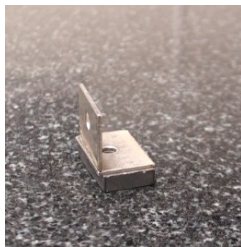
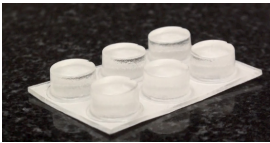
Gaps, sticky tracks, and unsquare frames.

## Bag of Tricks

Everydoor is a little bit different so your going to be tossed some curveballs. A Wizard has to be a problem solver but we have a nice bag of tricks to help us.

### Shims:

Sometimes things are just a little out of line. Using a shim is great for small adjustments. Bumper pads and plates from magnet assemblies mmhandy shims



An Installer shims out a track using part of the magnet assembly



### Magnets:

Our super magnets can be to super sometimes, you may need to weaken them for old and wimpy customers.



"Adjusting a Magnet Assembly"

### Mohair/Bugflaps:

These can be an easy way to close off a gap.