



# MILANO 100

## SINGLE DOOR SCREEN

### OWNER'S GUIDE AND INSTALLATION

#### MILANO 100 RETRACTABLE SCREEN DOOR

Thank you for choosing the GENIUS<sup>®</sup> MILANO retractable screen door. These instructions are split into three sections: CUSTOM SIZING (page 6), INSIDE THE FRAME INSTALLATION (page 9), and OUTSIDE THE FRAME INSTALLATION (page 14). Determine which you need before starting. If you have purchased a custom made screen please bypass the custom sizing section and proceed directly to the installation section. These instructions demonstrate installation methods for single panel hinged entry doors. For help installing on a sliding patio or other door please contact us or visit [www.geniusscreens.com](http://www.geniusscreens.com).

Please read the complete installation instructions before proceeding with installation.

#### INSTALLATION TOOLS



**Power Screw Driver  
with Phillips Bit  
& Drill Bits**

**Hacksaw**

**Tape Measure**

Installation Questions?  
Replacement Parts?

**WE CAN ASSIST YOU.**  
**1-866-523-9511**

Watch the installation video at  
[www.geniusscreens.com/videos/](http://www.geniusscreens.com/videos/)  
or scan this QR Code



**MEASURING GUIDE**

**MEASURING A TYPICAL HINGED DOOR FOR THE NET SCREEN OPENING DIMENSIONS**

Determine the "NET SCREEN OPENING DIMENSION" (width x height) as measured from where the outside most edges of the retractable screen will rest. Screens are then made to fit these dimensions.

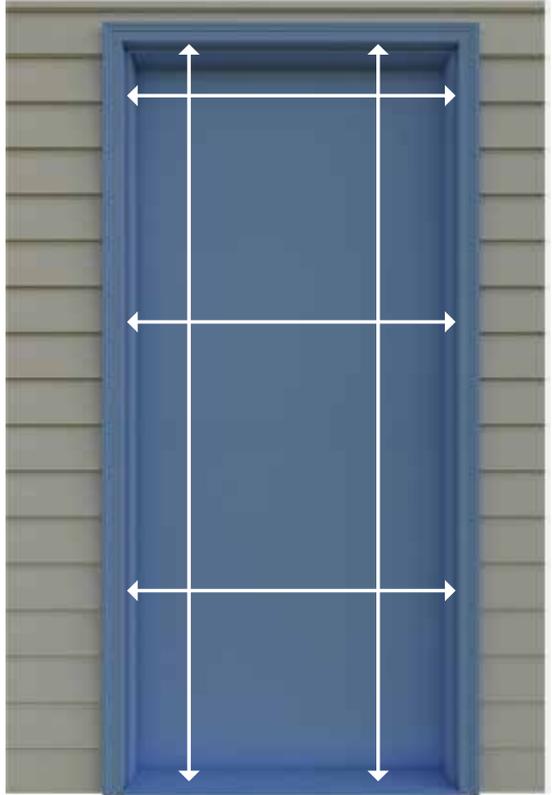
**INSTALLATION TYPE**

- OPTION A** Inside the Frame
- OPTION B** Fully Inside the Frame
- OPTION C** Outside the Frame

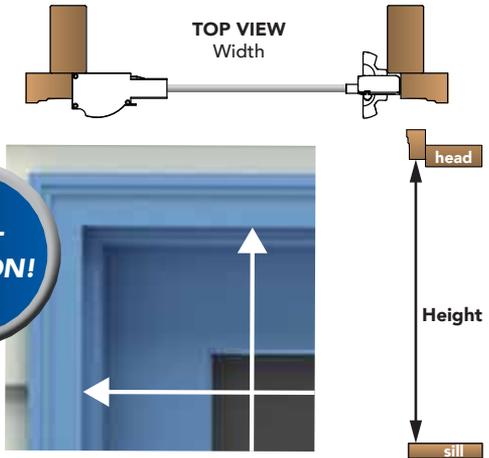
**RECORD MEASUREMENTS**

**W** \_\_\_\_\_

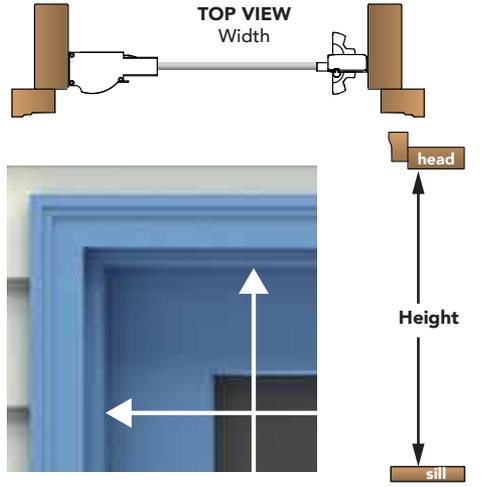
**H** \_\_\_\_\_



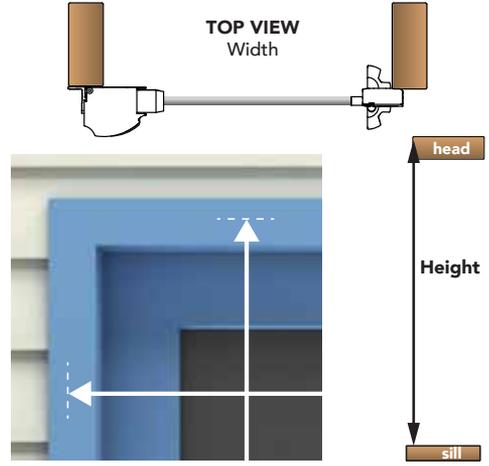
**OPTION A (Recommended)**  
INSIDE THE FRAME INSTALLATION  
(Recess Mounted) at the Brick Mold



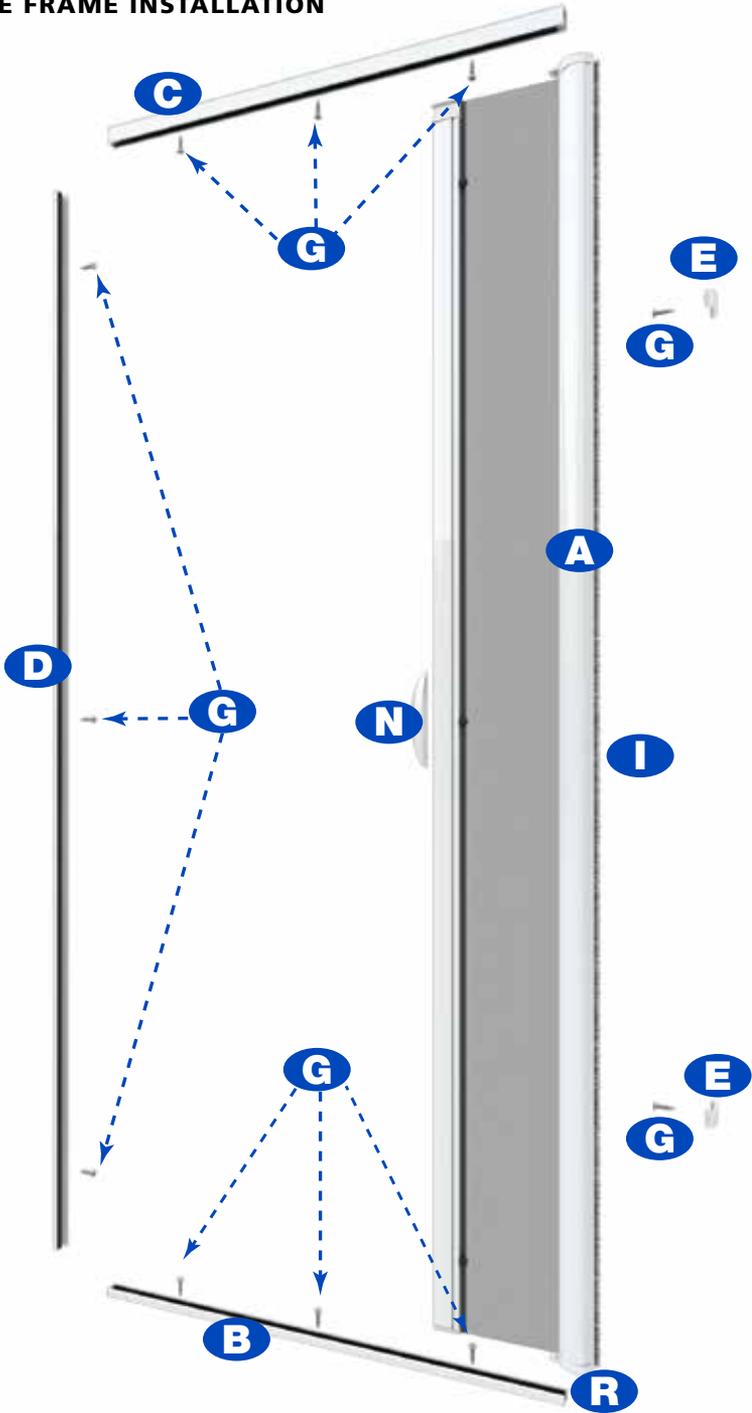
**OPTION B**  
INSIDE THE FRAME INSTALLATION  
Fully Inside the Frame



**OPTION C**  
OUTSIDE THE FRAME INSTALLATION  
(Surface Mounted)

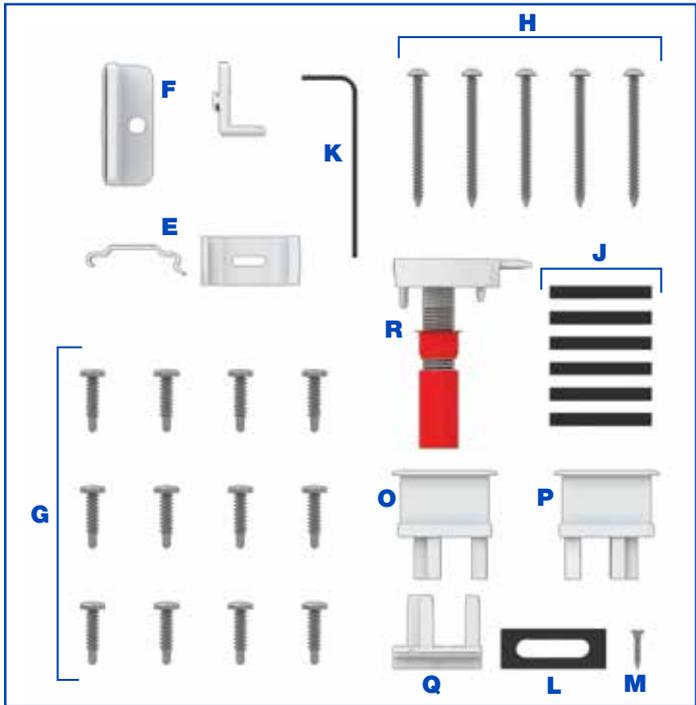


**INSIDE THE FRAME INSTALLATION**



## PART DESIGNATIONS

- |  |   |
|--|---|
| <b>A</b> Screen Cassette Assembly                  | <b>I</b> Insect Pile Weatherstrip         |
| <b>B</b> Bottom Guide Rail                         | <b>J</b> Sloped Threshold Shims           |
| <b>C</b> Top Guide Rail                            | <b>K</b> Allen Wrench                     |
| <b>D</b> Side Rail with Magnet                     | <b>L</b> Pile Opener                      |
| <b>E</b> Inside Mount Clips                        | <b>M</b> #6 x 3/4" Cassette End Cap Screw |
| <b>F</b> Outside Mount Clips                       | <b>N</b> Handle                           |
| <b>G</b> #8 x 3/4" (19mm) Phillips Panhead Screws  | <b>R</b> Cassette End Cap                 |
| <b>H</b> #6 x 1-3/4" Phillips Outside Mount Screws |   |



## PARTS KIT

- |  |  |
|--|--|
| <b>E</b> Inside Mount Clips                        | <b>M</b> #6 x 3/4" Screw for Cassette End Cap  |
| <b>F</b> Outside Mount Clips                       | <b>O</b> Top Pull Bar End Cap for Left-Hand Installations  |
| <b>G</b> #8 x 3/4" (19mm) Phillips Panhead Screws  | <b>P</b> Top Pull Bar End Cap for Right-Hand Installations<br>(already installed when ordering a custom made screen) |
| <b>H</b> #6 x 1-3/4" Phillips Outside Mount Screws | <b>Q</b> Bottom Pull Bar End Cap for Left-Hand Installations   |
| <b>J</b> Sloped Threshold Shims                    | <b>R</b> Cassette End Cap with Bushing and Brake   |
| <b>K</b> Allen Wrench                              |  |
| <b>L</b> Pile Opener                               |  |

## CUSTOM SIZING

If you have purchased a custom made screen than bypass this custom sizing section and proceed directly to the installation section. Installation can be made inside the frame (pages 9–13) or outside the frame (pages 14–18). Determine the type of installation that you will do, measure the opening and proceed as instructed.

### 1 CUTTING THE CASSETTE

To custom size the already partially assembled **A-Screen Cassette Assembly**, take the height of the net screen opening and subtract 3/8" (9.5mm). This will become your overall cut dimension. This deduction provides an allowance for the **R-Cassette End Cap** that you will install in STEP 4. Now measuring from the outside of the one already installed **R-Cassette End Cap** mark the place where you will cut the **A-Screen Cassette Assembly**.



1.1

Firmly hold the **A-Screen Cassette Assembly** (with Pull Bar) and cut to size (including the screen fabric) [FIG 1.1]. Hold upright and tap away the metal shavings. Now only the aluminum Pull Bar of the **A-Screen Cassette Assembly** needs to be trimmed down a little more. Slide the aluminum Pull Bar a few inches away from the screen fabric and magnetic strip, measure and then cut so that just the aluminum Pull Bar (without the plastic end caps) is a total of 2-3/16" (56mm) shorter than the height of the net screen opening that you measured and recorded earlier (FIG 1.2).



1.2

### 2 CUTTING THE TOP, BOTTOM AND SIDE GUIDE RAIL WITH MAGNETIC PROFILES

Using the **original Net Screen Opening Dimension** from page 2 as the starting point cut these profiles to the following lengths:



2.1

	NET OPENING DIMENSION		
B–Bottom Guide Rail	_____ (W)	– 2-5/16" (59mm)	= _____
C–Top Guide Rail	_____ (W)	– 2-5/16" (59mm)	= _____
D–Side Rail with Magnet	_____ (H)	– 3/32" (2.5mm)	= _____

After cutting the **B-Bottom Guide Rail** and **C-Top Guide Rail**, use pliers to crimp the **Pile/Weather Strip** in place [FIG 2.2] so that it does not move in the holding channels.

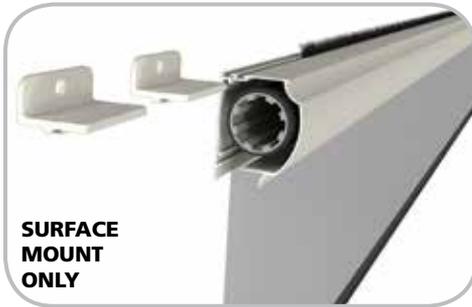


2.2

### 3 INSECT PILE WEATHERSTRIP

**Recess Mount Applications (inside the frame) :** The I-Insect Pile/Weather Strip is already installed in the channel located on the rear of the Cassette.

**Surface Mount Applications (outside the frame) :** Remove the I-Insect Pile/Weatherstrip from the channel at the top back of the **A-Screen Cassette** [FIG 3.1]. Then slide the runners on the bottom of the **F-Outside Mount Clips** into the same channel [FIG 3.2]. Note: the position of the **L-Surface Mount Clips** can be adjusted at any time once installed in the channel.



3.1

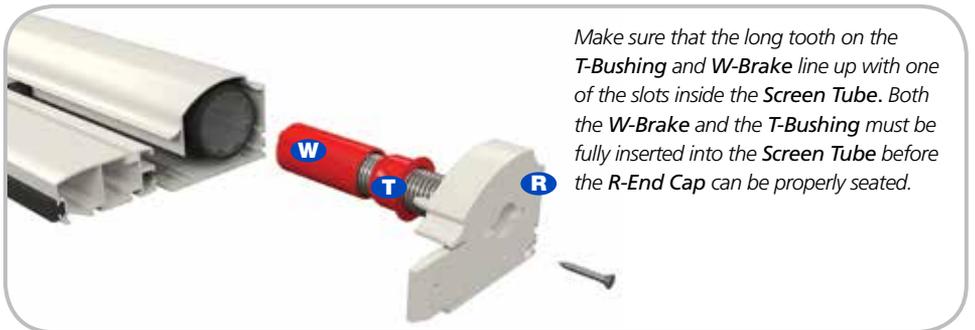


3.2

### 4 END CAP ASSEMBLY

**W-Brake, T-Bushing and R-Cassette End Cap** come pre-assembled.

Slip the **T-Bushing** down the coiled spring to the **W-Brake**. On the open end of the **A-Screen Cassette**, insert the **W-Brake with T-Bushing** into the center of the **Screen Tube**, aligning the long tooth on both. Next, match up the large pin on the top of the **R-End Cap** to the corresponding hole at the top of the **A-Screen Cassette Housing**. Tap evenly with a soft mallet until the assembly fits snugly, and secure with #6x3/4" screw [FIG 4.1].

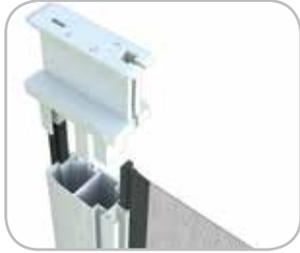


*Make sure that the long tooth on the **T-Bushing** and **W-Brake** line up with one of the slots inside the **Screen Tube**. Both the **W-Brake** and the **T-Bushing** must be fully inserted into the **Screen Tube** before the **R-End Cap** can be properly seated.*

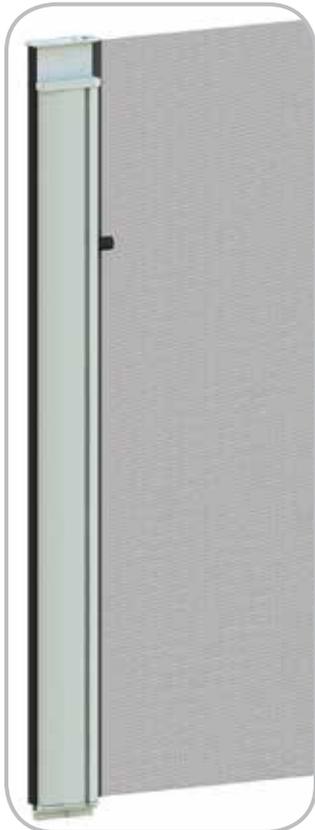
4.1



5.1



5.2



5.3

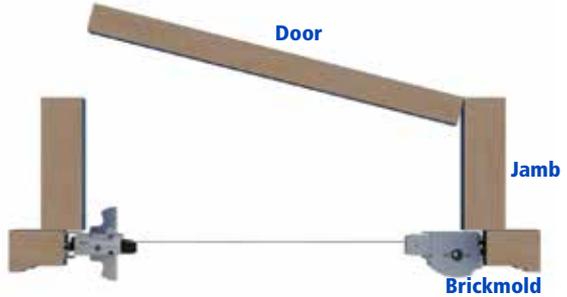
## 5 PULL BAR END CAPS

The **A-Screen Cassette Assembly** can be installed on either side of the door. The side that you select will determine if you install the right or left handed version of the **Bottom and Top Pull Bar End Caps [O, P, Q]**.

Since the Pull Bar End Caps are handed parts the side of the door where you choose to install the screen will determine if you use the right or left handed version of the Bottom and Top Pull Bar End Caps. **Always install the TALLER PULL BAR END CAP [FIG 5.2], so it rest at what will be the top of the screen and the SHORTER PULL BAR END CAP at the bottom [FIG 5.1].** Each Pull Bar End Cap will have either the letter "R" or "L" to indicate if it is for a right or left handed screen. Notice that the Top Pull Bar End Cap has 2 long channels, one where the screen fabric inserts and another to hold the magnet. Insert the appropriate top and bottom Pull Bar End Caps and tap in place using a soft mallet.

## INSIDE THE FRAME MOUNTING LOCATION

The A-Screen Cassette will be mounted within the door frame using E-Inside Mounting Clips. You will want to install the screen cassette on the same side as the door hinges.



You may choose to position the screen inside the door frame in one of the locations shown below. Typically the handle on the door does not affect the screen placement decision. This is because the door will be open while the screen is being used and the screen will be retracted when the door is closed.

Measure the opening width and height in several places and record the smallest width and height measurements.

### INSTALLATION TYPE

- OPTION A** Inside the Frame
- OPTION B** Fully Inside the Frame

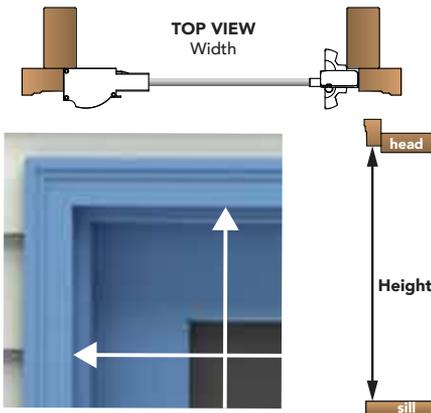
### RECORD MEASUREMENTS

**W** \_\_\_\_\_

**H** \_\_\_\_\_

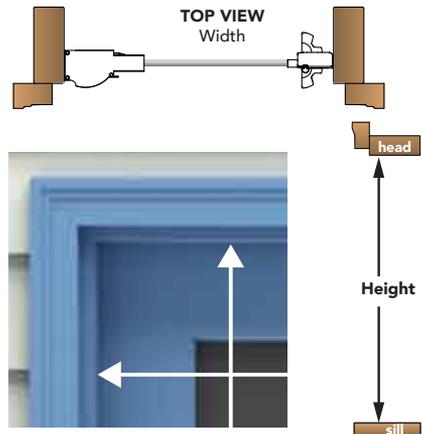
### OPTION A (Recommended)

INSIDE THE FRAME INSTALLATION  
(Recess Mounted) at the Brick Mold



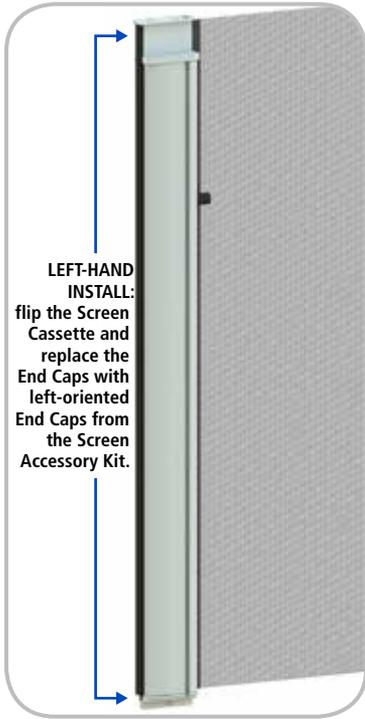
### OPTION B

INSIDE THE FRAME INSTALLATION  
Fully Inside the Frame



## 1 THE SCREEN CASSETTE

The A-Screen Cassette Assembly can be installed on either the right or left side of the door jamb. The Screen Cassette comes from the factory for right-handed installation. For a left-handed install, flip the Screen Cassette vertically, remove and discard the right-oriented P-Pull Bar End Caps and replace with the left-oriented Pull Bar End Caps [O,Q] from the Screen Accessory Kit. Remember, for either orientation, **the TALLER Pull Bar End Cap must always be at the top** [FIG 1.1].



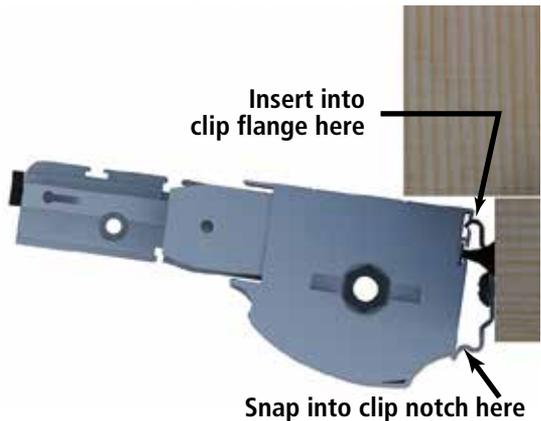
1.1

## 2 INSTALL THE CASSETTE

Measure over 3/4" and install the Recess Mounting Clips 20" from the top and bottom of the door opening using the #8 x 3/4" (19mm) Phillips Panhead Screws [FIG 2.1]. Snap the Screen Cassette onto the mounting clips [FIG 2.2].



2.1



2.2

### 3 INSTALLING THE TOP AND BOTTOM GUIDE RAILS

Slide the **B-Bottom Guide Rail** fully onto the tab on the **A-Screen Cassette End Cap** [FIG 3.1]. Repeat for the **C-Top Guide Rail** [FIG 3.2]. Position the **C-Top Guide Rail** onto the tab of the **A-Screen Cassette** [FIG 3.3].

NOTE: The front of the top and bottom guide rail has an indented groove that should face the outside.



3.1



3.2



3.3

### 4 INSTALL SIDE RAIL

Slide the **D-Side Rail** behind and over the **A-Top Guide Rail** and **B-Bottom Guide Rail**, so that the **Top Guide Rail** and **Bottom Guide Rail** are positioned inside the flanges of the **D-Side Rail** [FIG 4.1, 4.2].



4.1



4.2

## 5 DOOR THRESHOLDS / SILLS

There are many different door threshold/sill designs. Be aware of the threshold type and know that it is important to have or create a level and stable surface when installing the **Bottom Guide Rail**. The following are two of the more common threshold/sill designs and ways to install the **Bottom Guide Rail**.



**Flat Threshold**

### FLAT THRESHOLD / SILL

Clean the surface and then mount the **B–Retractable Screen Bottom Guide** directly to the threshold/sill.



**Sloped Threshold**

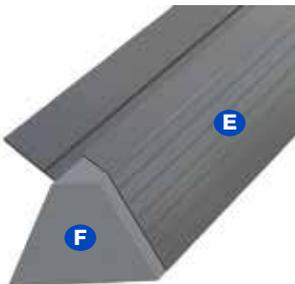
### SLOPED THRESHOLD / SILL

Make a flat and stable surface by installing **J-Shims** under the **B–Bottom Guide Rail**.

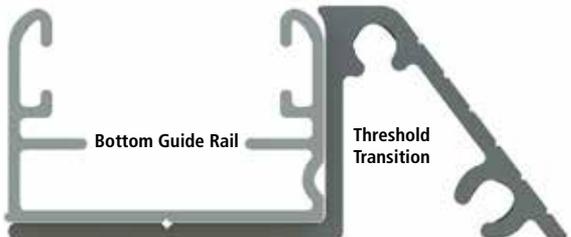
## OPTIONAL THRESHOLD TRANSITION

Before securing the B-Bottom Guide Rail, you may choose to install a Threshold Transition with End Caps. This optional feature is ordered separately and helps protect the B-Bottom Guide Rail and it is also a nice aesthetic feature. The Threshold Transition may be installed toward the interior or exterior of the home or use two for this feature on both sides of the B-Bottom Guide Rail.

To install, cut the **Threshold Transition** to the door opening width, less 4-1/4" (114mm). Insert the **Threshold Transition End Caps**, and slide the lip of the **Threshold Transition** under the **Bottom Guide Rail**.



**Profiles of Bottom Guide Rail and Threshold Transition**



## 6 SECURE THE RAILS WITH SCREWS

Secure the **B-Bottom Guide Rail**, **C-Top Guide Rail** and **D-Side Rail with Magnet** with three **I-#8 x 3/4" (19mm) Phillips Panhead Screws** each [FIG 6.1]. Position screws six inches (150mm) in from each end and center the middle one.

When installing the **Bottom** and **Top Guide Rail**, use the convenient **L-Pile Opener** included with this kit, to temporarily separate the two insect piles. This will make for easier viewing and installation of the screws [FIG 6.2].



6.1



6.2

## 7 ADJUST THE HANDLES

Adjust the **N-Handle** heights by loosening the **Allen-Head Set Screw**, move the **Handle** as desired and retighten screw [FIG 7.1]. For your convenience, the **K-Allen Wrench** is located in the accessory kit for this step.

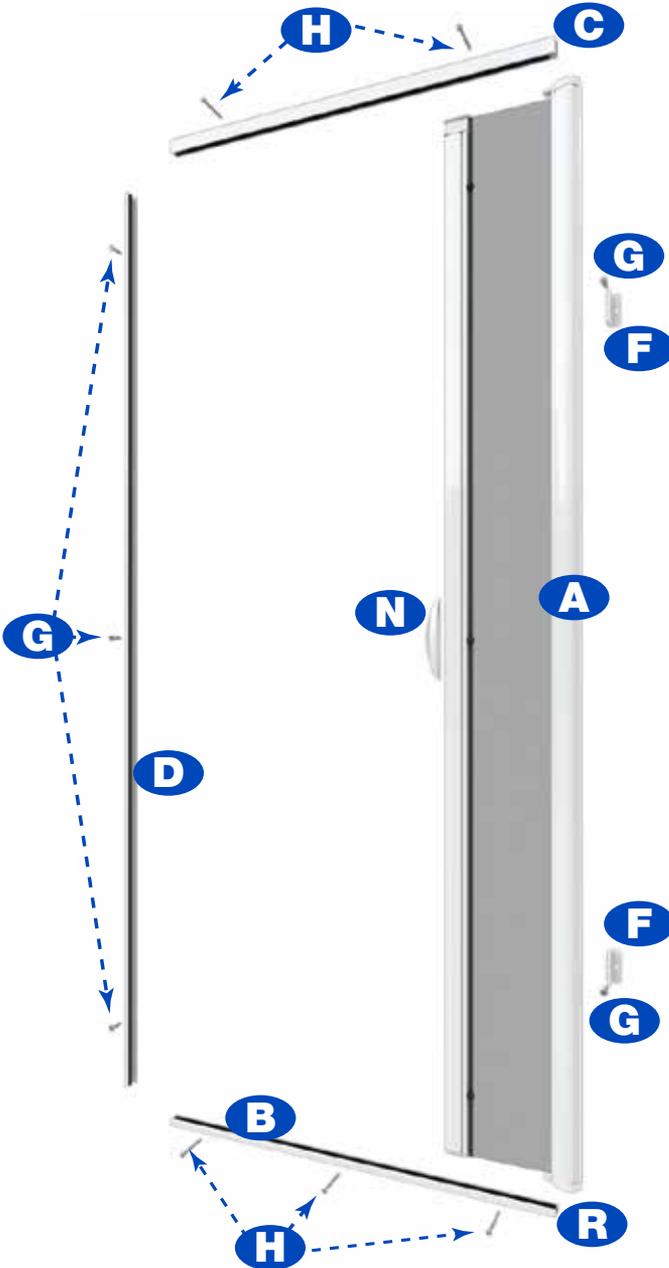


7.1

**That's it. Enjoy your new Genius Retractable Screen!**

For more great retractable screen ideas for your home, please visit [www.geniusscreens.com](http://www.geniusscreens.com)

**OUTSIDE THE FRAME INSTALLATION**

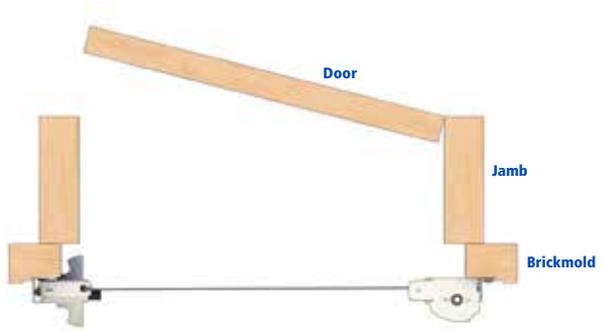


**PART DESIGNATIONS**

- A** Screen Cassette Assembly
- B** Bottom Guide Rail
- C** Top Guide Rail
- D** Side Rail with Magnet
- E** Inside Mount Clips
- F** Outside Mount Clips
- G** #8 x 3/4" (19mm) Phillips Panhead Screws
- H** #6 x 1-3/4" Phillips Outside Mount Screws
- I** Insect Pile Weatherstrip
- J** Sloped Threshold Shims
- K** Allen Wrench
- L** Pile Opener
- M** #6 x 3/4" Cassette End Cap Screw
- N** Handle
- R** Cassette End Cap

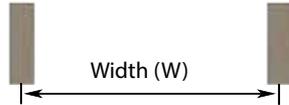
## 1 POSITIONING

For an outside the frame installation (surface mounted), mount the **A-Screen Cassette** using the **F-Outside Mount Clips** and **G-#8 x 3/4" (19mm) Phillips Panhead Screws** (see step 4).

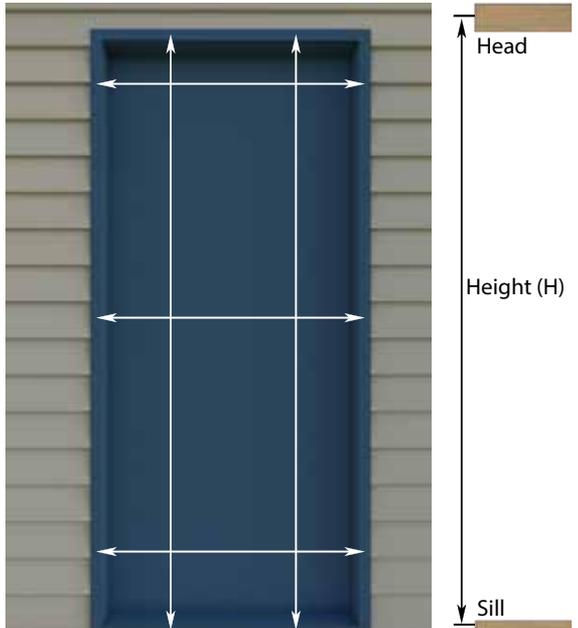


## 2 MEASURE THE OPENING

Measure the opening width and height in several places and record the smallest width and height measurement.

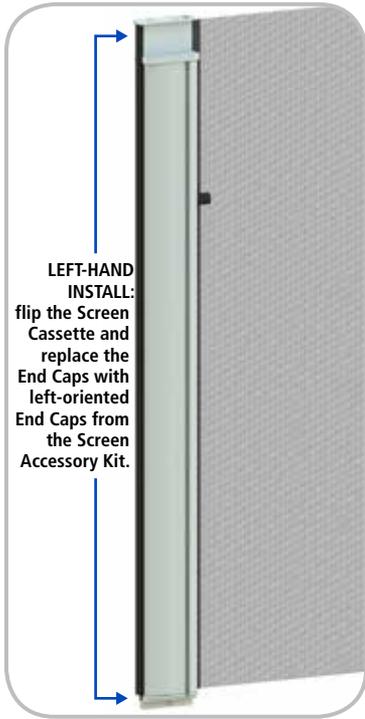


**RECORD**  
**W** \_\_\_\_\_  
**H** \_\_\_\_\_



## 3 THE SCREEN CASSETTE

The A-Screen Cassette Assembly can be installed on either the right or left side of the door jamb. The Screen Cassette comes from the factory for right-handed installation. For a left-handed install, flip the Screen Cassette vertically, remove and discard the right-oriented Pull Bar End Caps and replace with the left-oriented Pull Bar End Caps [O,P,Q] from the Screen Accessory Kit. Remember, for either orientation, **the TALLER Pull Bar End Cap must always be at the top** [FIG 3.1].



## 4 INSTALL THE CASSETTE

3.1

Remove and discard the I-Weather Strip from the back of A-Screen Cassette. Slide two F-Outside Mount Clips into the groove on the rear of the Screen Cassette before proceeding [FIG 4.1, 4.2]. Position the A-Screen Cassette, and use one #8 x 3/4" (19mm) Phillips Panhead Screw to secure Outside Mount Clips to the opening [FIG 4.3].



4.1



4.2



4.3

## 5 INSTALLING THE TOP AND BOTTOM GUIDE RAILS

Slide the **B-Bottom Guide Rail** fully onto the tab on the **A-Screen Cassette End Cap** [FIG 5.1].

**NOTE: The Bottom and Top Rails each have decorative grooves on one side. This groove should face the outside** [FIG 5.2].

Slide the **C-Top Guide Rail** onto the tab of the **A-Screen Cassette Assembly** [FIG 5.3].



5.1



5.2



5.3

## 6 POSITION SIDE RAIL WITH MAGNET

Angle the **D-Side Rail with Magnet** behind and over the **B-Bottom Guide Rail**, so that the **B-Bottom Rail** is positioned inside the flanges of the **D-Side Rail** [FIG 6.1, 6.2].

**C-Top Guide Rail** also positions inside the flanges of the **D-Side Rail** [FIG 6.3]. On the surface installation, the taller flange of the **D-Side Rail** is set flush to the outside of the door jamb.



6.1

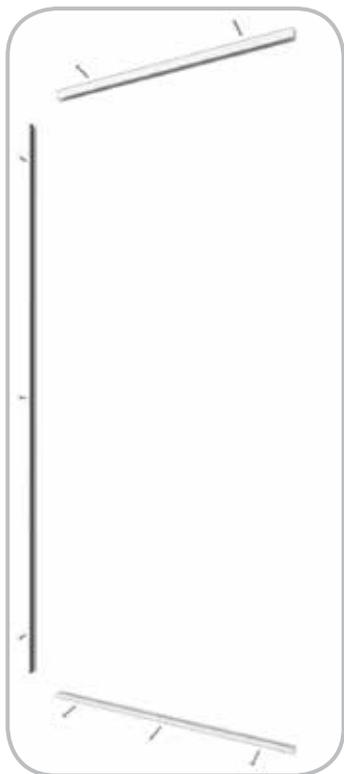


6.2



6.3

## INSTALLATION OUTSIDE THE FRAME



7.1

### 7 SECURE THE RAILS WITH SCREWS

**C-Top Guide Rail:** Locate the decorative trim groove [FIG 7.1] on the front surface of the C-Top Guide Rail and in this groove drill 1/8" (3mm) holes located 4" in from each end. Drill all the way through both sides of the C-Top Guide Rail. Secure the C-Top Guide Rail to the door frame using the H- #6 x 1-3/4" (44mm) Phillips Panhead Screws. Do not over tighten.

**B-Bottom Guide Rail:** Locate the decorative trim groove [FIG 7.1] on the front surface of the B-Bottom Guide Rail and in this groove drill 1/8" (3mm) holes located 4" in from each end and one at the center point. Drill all the way through both sides of the B-Bottom Guide Rail. Secure the B-Bottom Guide Rail to the door frame using the H- #6 x 1-3/4" (44mm) Phillips Panhead Screws. Do not over tighten. If the B-Bottom Guide Rail will be positioned where it is susceptible to being stepped upon, kicked or otherwise bent, add a structural support for the B-Bottom Guide Rail to rest upon. A 1/2" x 1/2" "L" shaped aluminum extrusion is recommended. This or another similar support material may be purchased at a local hardware store.

**D-Side Rail with Magnet:** Locate the small groove just inside the D-Side Rail with Magnet [FIG 7.1] and secure it to the door frame using the G-#8 x 3/4" (19mm) Phillips Panhead screws. Locate screws 6" from the top and bottom and another at the center point.



8.1

### 8 ADJUST THE HANDLES

Adjust the N-Handle heights by loosening the Allen-Head Set Screw, move the Handle as desired and retighten screw [FIG 8.1]. For your convenience, the K-Allen Wrench is located in the accessory kit for this step.

**That's it. Enjoy your new Genius Retractable Screen!**

For more great retractable screen ideas for your home, please visit

[www.geniusscreens.com](http://www.geniusscreens.com)

**DON'T GO BACK TO THE STORE!**

PLEASE CALL OUR HELPLINE AT

**1-866-523-9511**



## OPERATION OF THE SCREEN

To retract the screen, disengage the Pull Bar from the magnetic latch, let go of the handle and allow the screen to retract at its own pace. The screen has a safety speed reducer feature and manually pushing the screen back into the Cassette Assembly may cause the Pull Bar to jump out of the Bottom Guide Rail or cause the screen fabric to bunch-up or leave the guides.

## TROUBLESHOOTING GUIDE

### THE SCREEN IS DIFFICULT TO PULL OR DOES NOT GLIDE SMOOTHLY.

- ▶ Verify that the screen has been installed plumb and level. Install shims if needed.
- ▶ Check to see if the Top Pull Bar End Cap is riding too high and rubbing inside the C-Top Guide Rail. This can sometimes happen if the door sill or head has settled and is sagging or bowed. If needed, trim down only the aluminum Pull Bar to alleviate this contact point.
- ▶ Clean debris from inside the Bottom Guide Rail.

### THE SCREEN CASSETTE ASSEMBLY DOES NOT SNAP ONTO THE RECESS MOUNT CLIPS.

- ▶ Verify that the Recess Mount Clips are installed using the dimensions specified. Take care to move back to its original shape any Recess Mount Clips that may have been bent or flattened during any previous attempts to install the Screen Cassette.

### THE DOOR'S BOTTOM THRESHOLD SLOPES STEEPLY.

- ▶ The **Bottom Guide** will not work properly if installed at an angle. Use shims to adjust the **Bottom Guide** until level.

### THE CLOSING MAGNETS DO NOT FULLY SEAL OR THE SCREEN DOES NOT CLOSE EVENLY.

- ▶ Clean the **Magnets** using mild soap and water.
- ▶ Clean any debris from inside the **Bottom Guide**. Debris can interfere with closing and smooth screen operation.
- ▶ Open the screen and check that the magnet located in the **Pull Bar** aligns with the magnetic strip in the **Side Rail with Magnet**. To adjust the alignment remove the **#8 x 3/4"(19mm) Phillips Panhead Screw** for the center of the **Side Rail**. Flex the center of the **Side Rail** 1/8" - 3/16" (3mm-4mm) toward the outside and reinstall the **#8 x 3/4"(19mm) Phillips Panhead Screw**.

## SIZING DEDUCTIONS

If you are building a Genius Milano 100 screen using Bulk Packaged Components the table below provides the required cutting deductions to apply when trimming the aluminum extrusions.

**Please note that all deductions should be taken away from the overall net screen opening dimensions.**

Cassette Style	Cassette Deduction	Pull Bar	30mm Rail	15mm Rail	Side Rail with Magnet
42mm Milano	11/16"	2-3/16"	2-5/16"	2-5/16"	3/32"
Single Door Cassette	(17.5 mm)	(56 mm)	(58.75mm)	(58.75 mm)	(2.5 mm)