

SmartScreen Motorized Recessed Comprehensive Instructions



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Recommendations & Resources

1. Read these instructions before first installation.
2. Bookmark these instructions and print copies to have on hand.

Technical info

www.wizardscreens.com/technical in “SmartScreen Motorized” table

3. Learn about the **Somfy Maestria 500 motor**

Download the Help me app



Integration guide: <https://snabatoools.com/integration-configurator>

Quick guide: [Maestria Quick Visual Guide 10-2018.pdf \(somfy.com\)](#)

Video: [Maestria Quick Guide - Manual Limit Adjustment](#)

Training Portal: https://www.somfyu.com/users/sign_up

DO NOT PROCEED WITH INSTALLATION BEFORE DOING THE ABOVE.

4. Call **1-888-949-3667**
 - a. to schedule an installation training session if deemed necessary
 - b. if problems arise during installation
5. Wizard Ordering Portal
<https://portal.wizardscreens.com/>

Preliminary Planning

Min width = 3'

Max width = 30'

Max height = 16'

*Maintain communication between builder and architect during the installation process to ensure nothing changes in regards to:

- where and how the u-channel and brackets will be installed
- that the cavity remains clear in the specified minimum dimensions; and
- that there is space for a removable access panel (if applicable).

1) Note planned opening size(s) (L x W).

2) Component Table

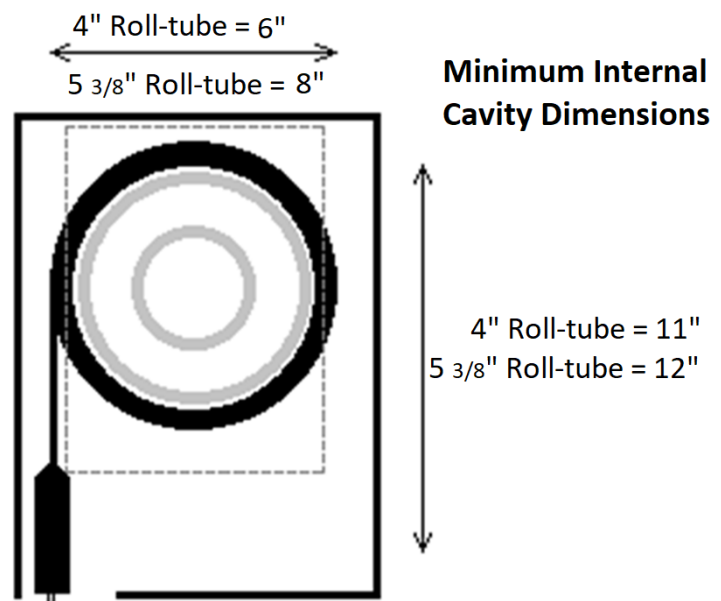
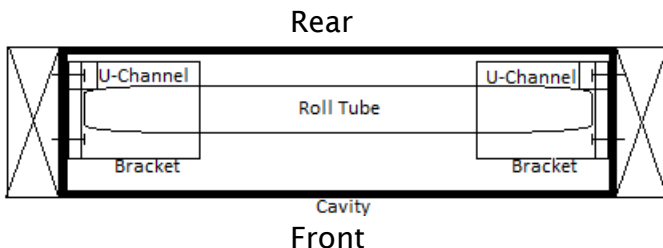
Selectable					Dimensional Threshold	
Screen Material	Center core	Min. motor	Bracket	Idler	Width	Height
Any (excl. vinyl)	4"	Maestria 525	5"	Mack Daddy Pivot	3' to 22.5'	& less than 12'
Any (excl. vinyl)	5 3/8"	Maestria 550	7"	Double Idler (temp dc.)	22.5' to 30'	& 12' to 16'
Vinyl	Any	Maestria 550	Any	See "Dim. Thresh."		

***NOTE: If size is beyond threshold in first row, appropriate items will be auto-selected.**

For more details, see step 5 "ORDERING PROCESS"

3) Cavity Considerations

- Screens must be accessible and serviceable.
- Screen function must be unimpeded.



4) Graded floor (I.e., sloped patio)

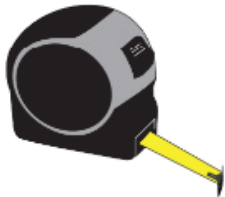
- The screen can be cut to a max 1 1/2" grade.
- Mohair can accommodate an extra 1" grade

***BRACKETS MUST BE LEVEL!**

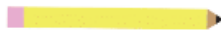
Measurements

1) Tools

Tape Measure



Pencil



2-way Laser Level Kit



Laser Distance Measure



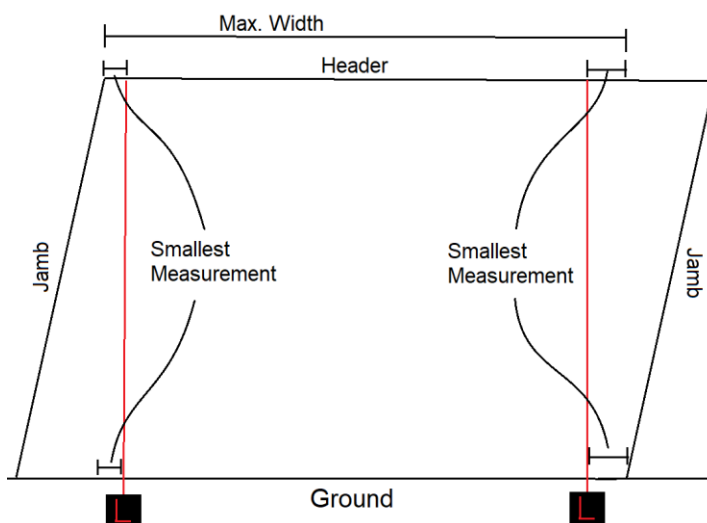
2) Unit Dimensions

*****Consider that rough framing is almost never perfectly plumb, level, and square. The installed motorized system must maintain these three attributes for a screen to operate well.*****

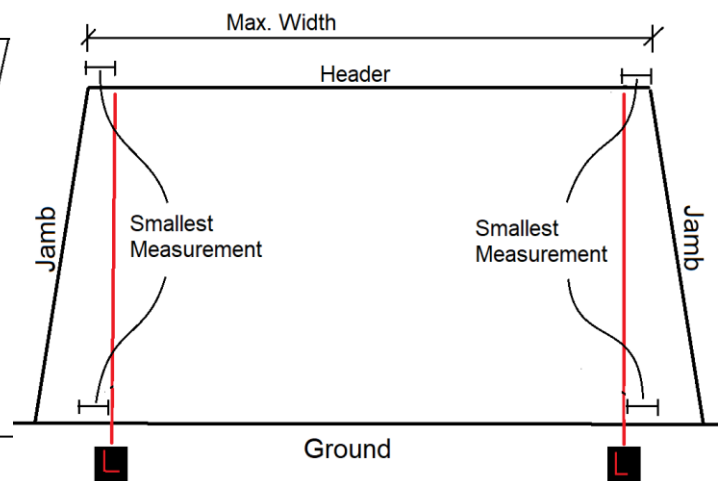
***The following measuring methods are the *most accurate* methods that leaves the least room for error. Use any other methods at your own discretion.**

a) Width

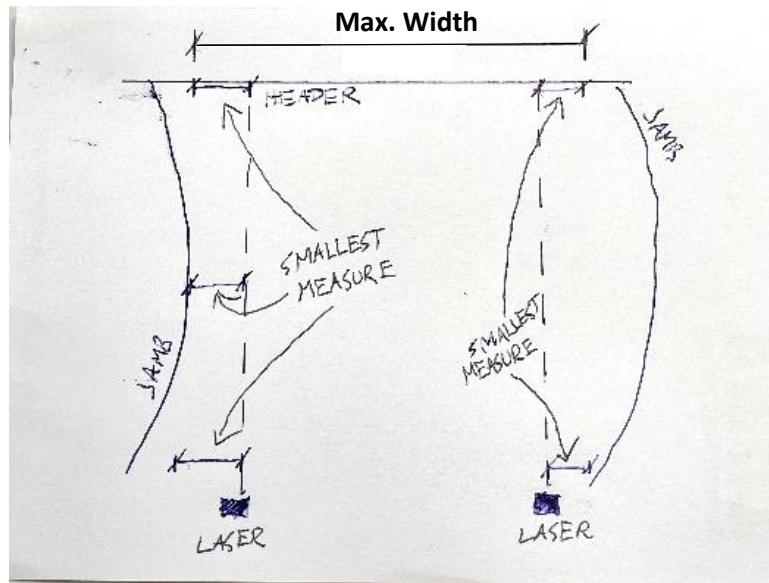
Case 1



Case 2



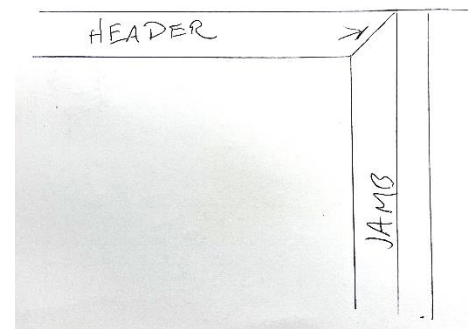
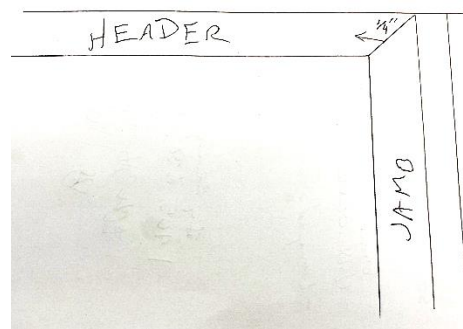
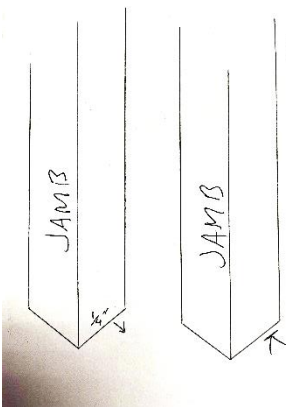
Case 3



EXAMPLES

Bottom

Top



- i) **Record** maximum WIDTH at smallest measurement marks.
- b) Height
 - i) Establish level marks where top of brackets will be.
 - ii) Measure largest vertical measurement. **Record.**
 - iii) If floor is graded, **record LEFT** and **RIGHT** heights.

Ordering Process

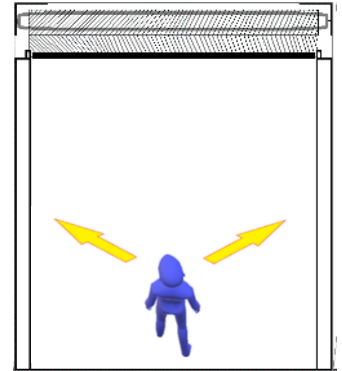
- 1) Dimensions
- 2) Colors of components
- 3) Slide-bar Seals
 - a) Mohair
 - b) Rubber (necessary if adding extra weight)
- 4) Screen Type
 - a) Insect, Solar, and Privacy screens
 - i) Due to restrictions of the max roll width sizes, two pieces of mesh may need to be welded together horizontally, causing a seam.
 - b) Clear vinyl
 - i) Includes a colored border surrounding the clear vinyl on 4 sides.
 - (1) The minimum dimensions of the borders are 8" on both left and right sides, 12" on the bottom, and 12" on the top between the roll tube and clear vinyl when fully unrolled.
 - (2) Border color options are black, white, and beige.
 - ii) Clear vinyl comes in 50" x 100" width rolls, so several panels may need to be welded together side-by-side to accommodate a width and a vertical seam(s) will be visible.
 - iii) If the clear vinyl height is greater than 100", the remaining height is finished with the border material, even if it is greater than 12".
 - iv) The extra border material can also be added above the slide bar rather than between the roll tube and the top of the clear vinyl, depending on the homeowner's request.
 - v) When choosing clear vinyl, a drawing showing the dimensions of the clear vinyl and the border will be sent to you for approval. **Manufacturing the vinyl will commence only upon receipt of dealer approved, signed, and dated drawing.**
 - vi) Manufacturing clear vinyl requires an extended lead time.

The latest offerings are on the [Wizard online portal](#).

5) Motor Location

- Select motor-side as if looking at **front** of unit, imagining how it will be oriented.
- Select power cable length
 - 10'
 - 24'

Electrical Considerations: [Somfy-Maestria-50-RTS-specs.pdf](https://www.wizardscreens.com/Somfy-Maestria-50-RTS-specs.pdf)
([wizardscreens.com](https://www.wizardscreens.com))



6) Component Table

Selectable					Dimensional Threshold	
Screen Material	Center core	Motor	Brackets	Idler	Width	Height
Any (excl. vinyl)	4"	Maestria 525	5"	Mack Daddy Pivot	3' to 22.5'	& less than 12'
Any (excl. vinyl)	5 ³ / ₈ "	Maestria 550	7"	Double Idler (temp dc.)	22.5' to 30'	& 12' to 16'
Vinyl	Any	Maestria 550	Any	See "Dim. Thresh."		

*NOTES: The order portal will automatically:

- Select the appropriate options *beyond* max. size thresholds in first row.
- Select appropriate bracket size in the background.

If the project has multiple openings of varied sizes, and some require the larger roll-tube, consider the **screen retraction speed**:

Assume some smaller openings only require 4" roll-tubes (center core) and some larger openings require 5 ³/₈" roll-tubes.

- A 4" roll tube will retract faster than a 5 ³/₈" roll tube. Order the 5 ³/₈" roll-tube and Maestria 550 motor for *all* units.

7) Remotes

a) Types

i) 1 unit = Situo 1 channel

ii) 2 - 5 units = Situo 5 channel

iii) 6 - 16 units = Telis 16 channel



b) Remote effectiveness is subject to:

- i) Distance (**must be within 30'**)
- ii) Physical obstructions (i.e., concrete, wood, drywall, windows, etc.).
- iii) Wired and wireless devices (i.e., refrigerators, wifi extenders, etc.)

*Multiple remotes may be necessary.

8) Optional Accessories

a) Somfy myLink™

- i) Converts the home's Wi-Fi to RTS (Radio Technology Somfy ®) that the motors can read.
- ii) Allows for control of the screen through an app on a smartphone.
- iii) Allows for third party home automation integration.

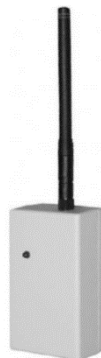
*The myLink™ must be located both **within the Wi-Fi hot zone** and **within 30' of the motorized screen**.



The remainder are *special requests*:

b) Somfy Repeater

- i) Increases remote signal distance by another 30'.



c) Somfy Sun Control

- i) Can be set to control the motorized screens based on how much sun it detects.



d) Somfy Wind Control

- i) Can be set to control the motorized screens based on how much wind it detects.



***Note:** for Somfy wind and sun control options – using these accessories can cause the screen to be in motion without it being checked for debris or damage prior to the screen being in motion, which can lead to new or further damage. Customer would use at own risk.

*All SmartScreen Motorized units have **obstacle detection – medium sensitivity** as default.

9) Other Special Requests:

- a) Seam location
- b) Extra weight (ideal for heavy fabrics and windy areas)

Field Preparation

Before installing the SmartScreen Motorized units

1) Tools

- a) Cordless drill
- b) Desired driver bits
- c) Drill bits
- d) Phillips screwdriver
- e) 9-in-1 painter's tool
- f) 2-way laser level
- g) Tape measure
- h) Laser distance measure
- i) Scissors
- j) Needle nose pliers
- k) Duct tape (if floor is graded)
- l) Dry silicone spray
- m) Caulking gun with caulk
- n) Chop saw with non-ferrous blade
- o) Appropriate fasteners. Determine what material the components will be fastened to (e.g. lumber, metal, plywood, etc.) **Min. 2" long.**

2) Contents of Shipment per unit

**Contents may vary depending on type or style ordered*

- a) Assembled roll-tube, motor, pivot (or double idler system), screen, and power cord.
- b) Brackets
- c) Slide-bar with bottom seal
- d) Remote(s).
- e) Probes (x2).

Optional:

- f) Recessed u-channels (x2).
- g) Recessed tracks with clips (x2).

3) Package and unit visual inspection

- a) If the **packages** are damaged, the **unit may still be free of damage.**

You must mark the external damage on the waybill.

- b) Report any potential damage to Wizard Screens **immediately** with pictures.

4) Unpackaging

- a) Place packages on a flat surface.
- b) Carefully remove components from packages. **Do not cut screen! Do not scratch components!**
- c) Report any visible damage to Wizard Screens **immediately** with pictures.

Installation

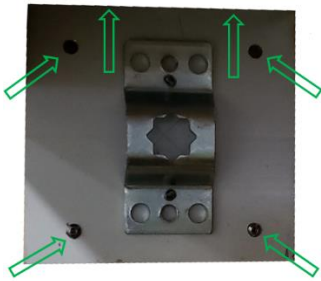
*Minimum 2 people recommended.

1) Brackets

- Affix brackets aligned to lateral *and* level marks established during measurement phase.

Back-of-bracket to back-of-bracket distance **must be order width.**

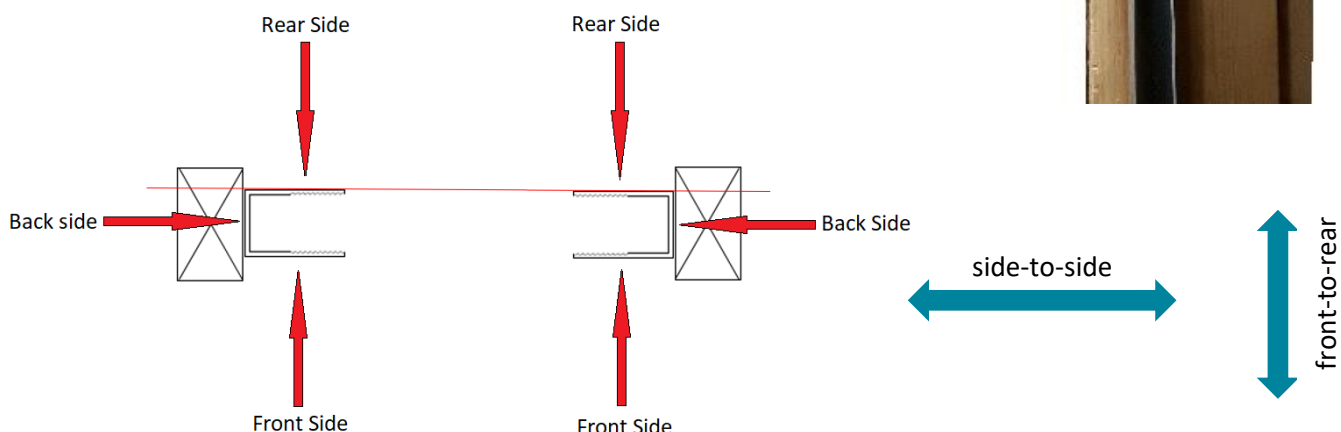
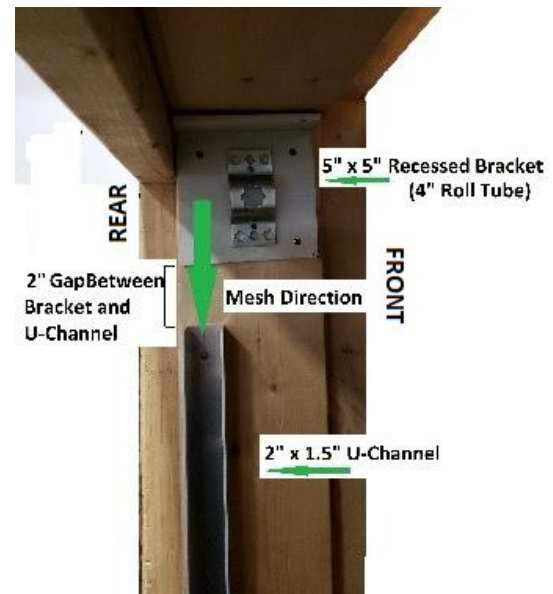
Fastening points



2) Recessed U-Channels

- Mark to desired lengths and cut. *They should not touch ground to prevent water from wicking.
- Pre-drill holes 2" from top and bottom. Then every 36" O/C.
- Fasten u-channels to surface like illustration.
 - Plumb front-to-rear.
 - U-channels aligned with back and rear of brackets.

*If the posts are *very* out-of-plumb side-to-side, plumb u-channels side-to-side as well.



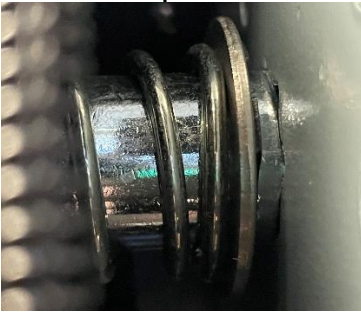
3) Rolled-Screen

- a) Attach motor mount ring onto crown.

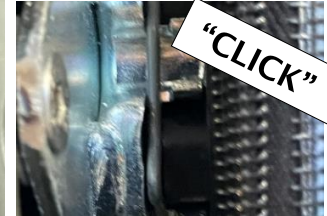
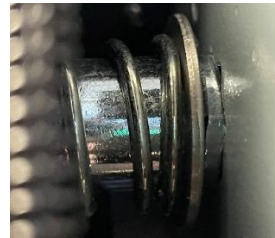
Motor mount
ring



- b) Insert the pivot.



- c) Compress pivot end and insert motor end into crown. ***There must be a distinct *click* sound and feel.**



*If installing with a **double idler system**, see instructions on [tech page](#).

4) Somfy Maestria 500 Series Motor programming

- a) Attach plug to cord per provided instructions. Plug into outlet.



*If hardwiring, consult with electrician. See also electrical specs on [tech page](#).

- b) Program screen.

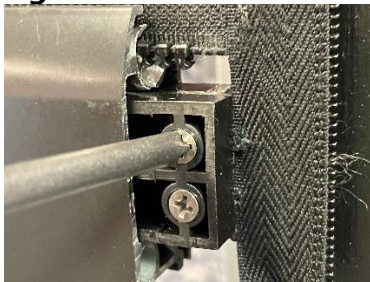
- i) See Somfy Quick Programming Guide on [tech page](#)
- ii) The limits will be more precisely set at the end.

5) Install slide bar

- a) Send screen to comfortable height.
- b) Fold tab up and feed slide-bar along zipper.



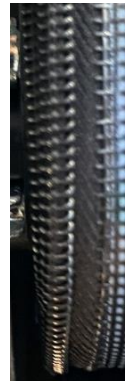
- c) Manually screw probes onto tabs until they pinch fully. ***Do not over-tighten screws.**



- d) Flush seal at one end of slide-bar and cut excess off at other. Cut zippers to be flush with bottom of slide-bar.



- e) Send screen to upper limit, ensuring zipper stacks well.

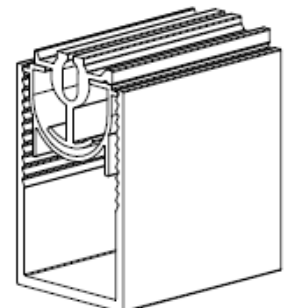


6) Tracks

- a) Mark tracks 1" longer than u-channels and cut. If lengths are different, label tracks.
*Tracks should not touch ground to prevent water from wicking.

- b) Starting with one track:

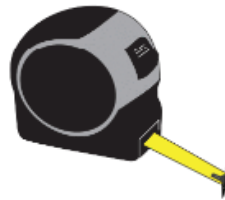
- i) Feed track along zipper.
- ii) Position track in u-channel where zipper lies and plumb.
- iii) Drop screen to lower limit.
- iv) If necessary, adjust track to where zipper lies in relation to roll-tube. Ensure plumb.
- v) Send screen to upper limit, ensuring zipper stacks well.



c) Install other track **plumb** and **parallel**



Tape Measure



2-way Laser Level Kit



d) Spray dry silicone into zipper grooves.



- e) Run screen up and down, ensuring the following:
- i) The zipper stacks well – no telescoping
 - ii) Obstacle detection does not activate prematurely
 - iii) Zipper does not unzip from tracks
 - iv) Screen maintains trampoline like bounce
 - v) Slide bar remains centered

7) Fine-tune screen limits

- a) Fine-tune the screen's upper and lower limits



- i) See Somfy Quick Programming Guide on [tech page](#)
- ii) When establishing lower limit, allow a $\frac{1}{4}$ " - $\frac{1}{2}$ " gap. The screen

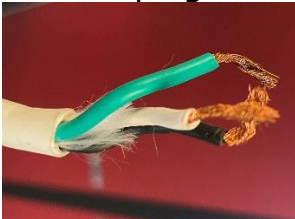
will settle over time and close gap.



- iii) If screen is grade-biased, it is typically desired for the slide-bar to be parallel with the roll-tube at the upper limit. Stack strips of duct tape onto roll-tube at higher side until accomplished.

8) Route Cord and Re-attach Plug

- a) Remove plug from cord.



- b) Route cord.



- c) Cut cord to desired length.
 - i) Do not cut cord within 18" of motor where the antenna lies.
 - ii) Ensure there is enough cord to form a drip loop at plug end.
- d) Attach plug to cord per provided instructions. Plug into outlet.



9) Finishing Touches

- a) Affix the wall mount for the remote INSIDE because the remote is sensitive to moisture (IP 30 rating). Hang remote.



See "Homeowner Training and DO's & DON'Ts" on [tech page](#).