PANORAMA ULTRA
WIDE FORMAT RETRACTABLE SCREENS
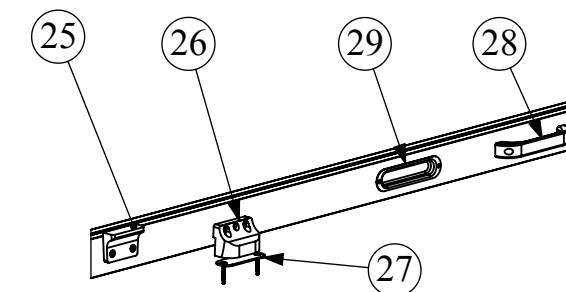
Installation Instructions

TABLE OF CONTENTS

ITEM NO.	DESCRIPTION		QTY.
1	Back Housing		1
2	Front Cover		1
3	Crossbar		1
4	Roll Tube		1
5	Housing Cap Pin Side Insert		1
6	Housing Cap Motor Insert		1
7	Left Housing Cap		1
8	Right Housing Cap		1
9	PanUltra Motor		1
10	Roll Tube Motor Insert		1
11	Zip Guide Retainer		1
12	Zipper Retainer		1
15	Zip Guide Rail		2
16	Outside Rail		2
17	Steel Weight		2
18	Crossbar Cap		2
19	Mounting Bracket		2-4
21	Roll Tube Pin Insert		1
22	Bottom Rail Cap		2
23	Top Rail Cap		2
24	Motor Drive Gear		1
25	Spring Stop	(Spring)	2
26	Magnet Base	(Spring)	2 or 3
27	Strike Plate	(Spring)	2 or 3
28	PanUltra D-Handle (standard)	(Spring)	Standard with spring
29	Recessed Handle (optional upcharge)	(Spring)	Optional

NOTE:
You will need to be able to turn the power on & off to each motor individually

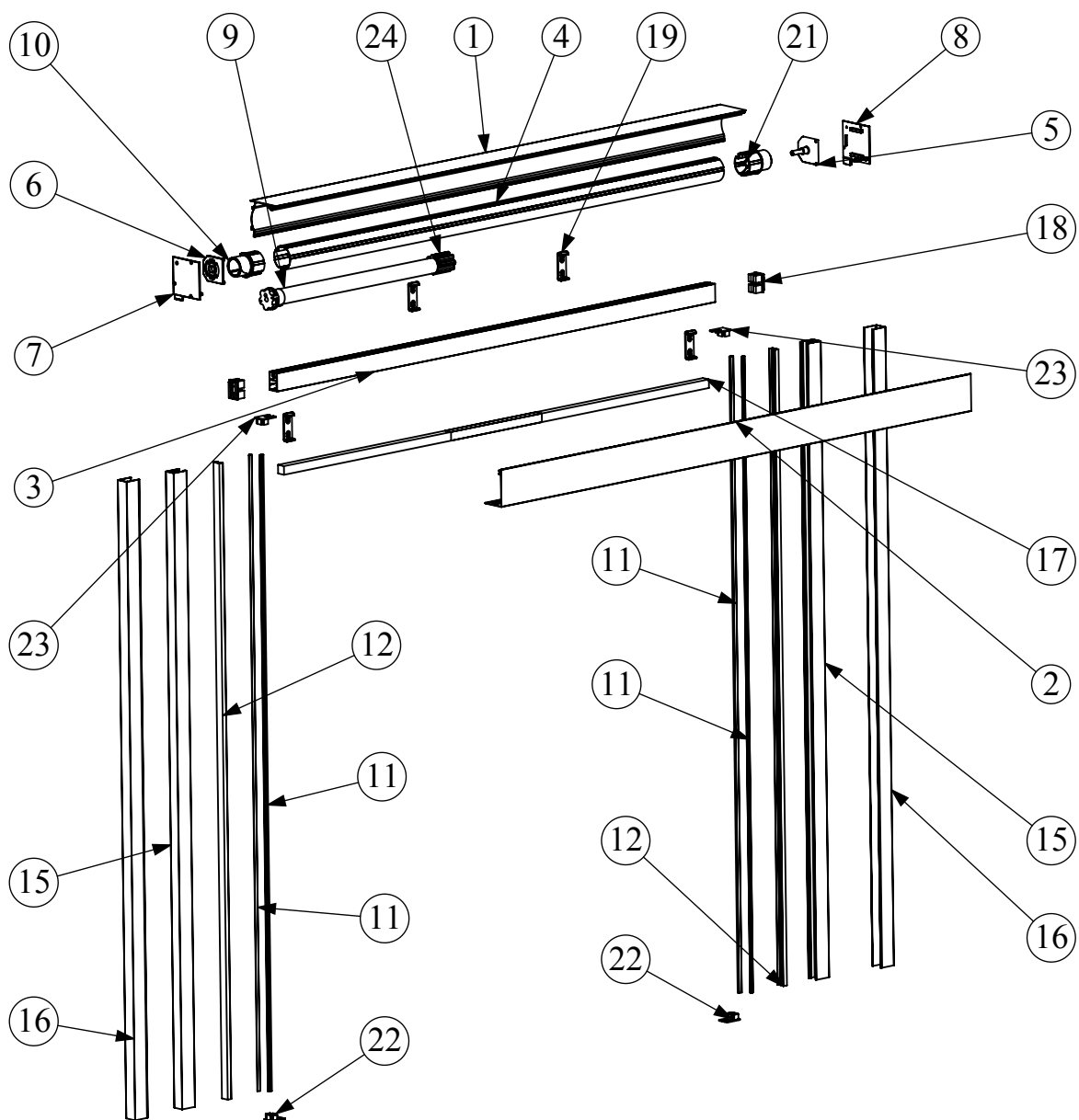| VOLTS	AMPS	Hz	TORQUE (in/lbs)	RPM
120	2.4	60	265	21

1

PANORAMA ULTRA WIDE FORMAT RETRACTABLE SCREEN

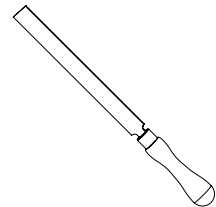8-18-21-B

Tools Required:
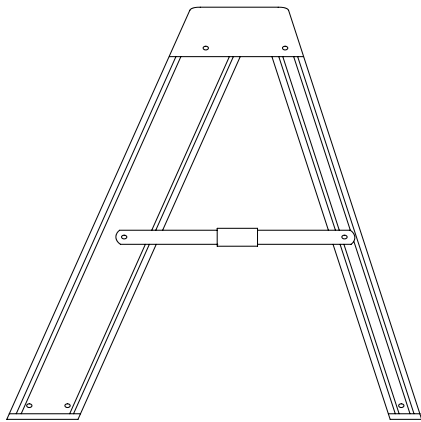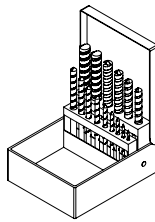
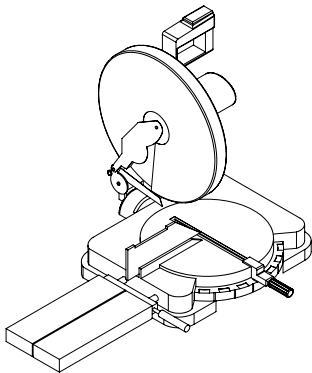Drill Index

3/8" x 12" Drill Bit
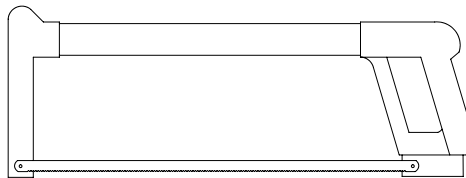
6' Step Ladder
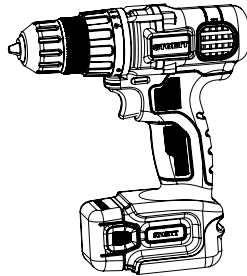
Cordless Drill

Tape Measure

Small Hand File Medium Course – Half Round
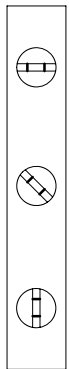
Aluminum Cutting Chop Saw

OR

Hacksaw

100% Silicone Spray

Level

Pencil
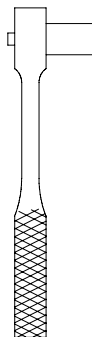
Ratchet

OR
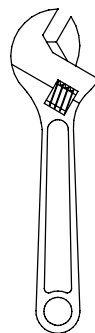
Crescent Wrench

Utility Knife

OR
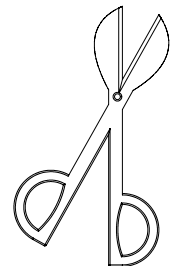
Tin Snips
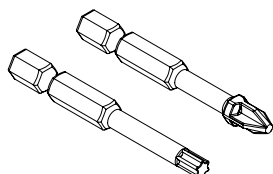
Assorted bits
#2 Phillips
T20 Torx

Fasteners & Tools Included

#10 x 3/4"
Flat Head
SS
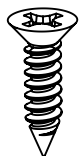
#8 x 1"
Flat Head
SS
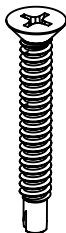
#12 x 2"
Flat Head
SS
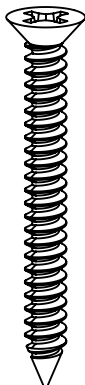
#8 x 3/4"
Pan Head
Tek SS

#10 Concrete
Anchor

M6 x 1mm
Set Screw

#10 x 3"
Pan Head
SS
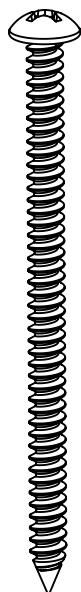
3 mm Allen
Hex Wrench
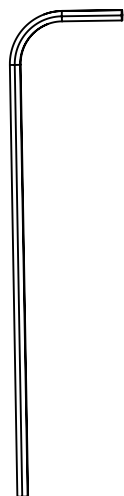
Housing Mounting
Bracket

#8 x 2"
Flat Head
SS D-Handle
Screw

S2 Magnet Base
standard with spring
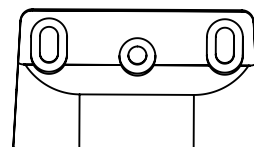
Strike Plate
standard with spring

Qty: Will Depend
On The Door Size
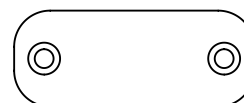
#10 Hinged Fastener
Screw Cap Cover
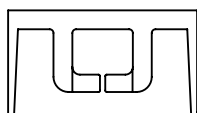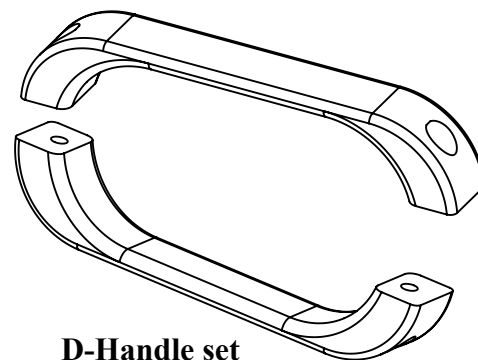
D-Handle set
standard for spring
unit

Zip Guide
Retainer

Zip
Retainer

4x

2x

3

HOUSING MOUNTING TYPES

Before mounting the housing in place you will need to figure out where the placement of the power cord if installing a motorized system

Back Housing   TOP

Front Cover

Front

#12 x 2 Flat Head SS

M6 x 1 Set Screw

BOTTOM
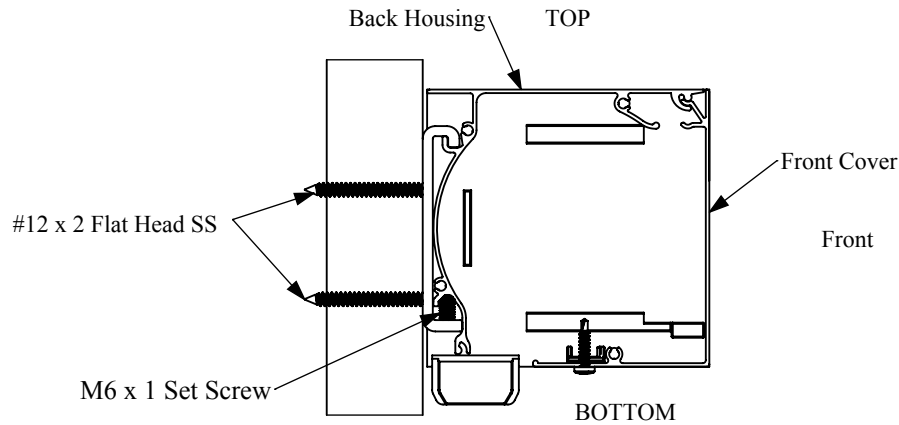
This is a face mount housing and bracket set-up.

FACE MOUNT

#12 x 2"Flat Head SS

M6 x 1 Set Screw

Back Housing

Front Cover

BACK   FRONT
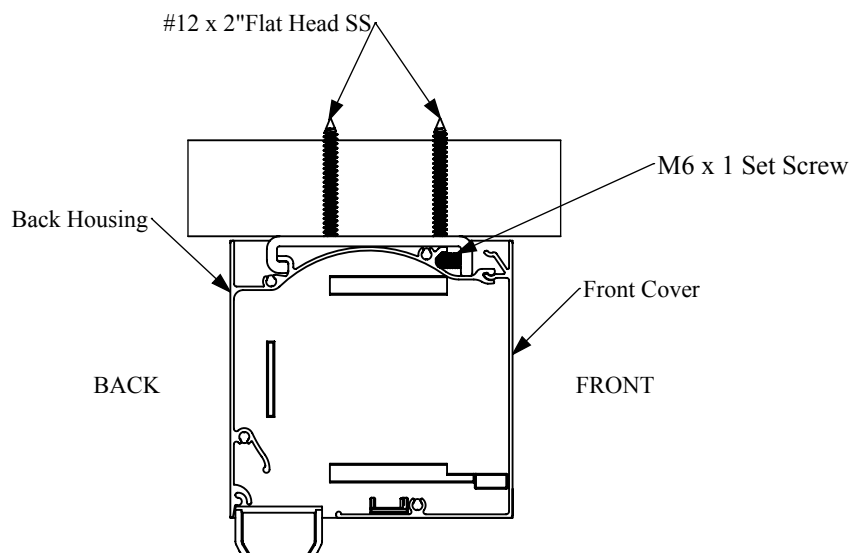
This is an under the header mount housing and bracket set-up.

UNDER HEADER

4

MOUNTING BRACKET INSTALLATION

Concrete Anchor
(If needed)

Mounting Bracket

#12 x 2" Flat
Head SS

M6 x 1mm
Set Screw
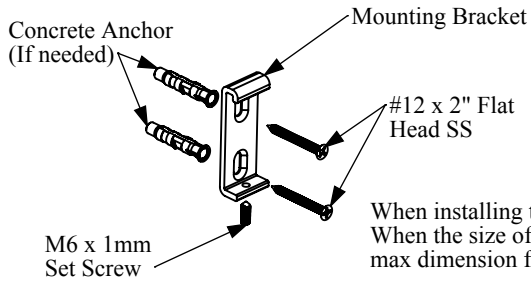
S1 Series
4' - 6'   = 2 Brackets
7' - 10' = 3 Brackets (One Centered)
11' - 13' = 4 Brackets

S2 Series
4' - 6'   = 2 Brackets
7' - 10' = 4 Brackets
11' - 13' = 5 Brackets (One Centered)
14' - 17' = 6 Brackets

When installing the housing mounting brackets, the brackets on the ends need to be 4-3/4" from the end.
When the size of door requires 3 brackets, the third will be in the middle. When 4 brackets are required 24"
max dimension from the housing caps.

24.00" (Max)

4.72" (Min)

24.00" (Max)

4.72"(Min)
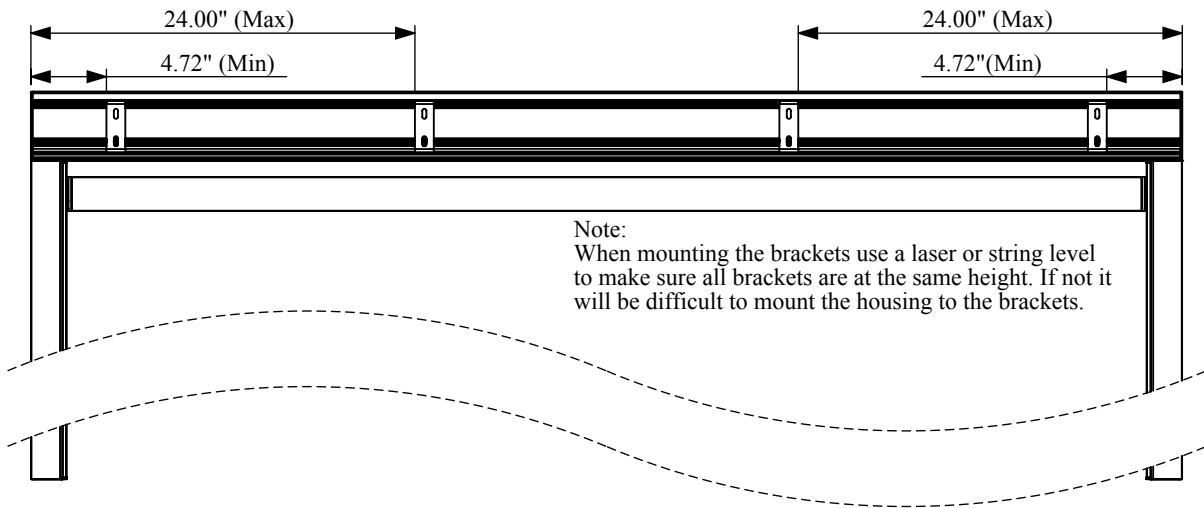
Note:
When mounting the brackets use a laser or string level
to make sure all brackets are at the same height. If not it
will be difficult to mount the housing to the brackets.

Housing bracket needs mounted 1/2" below soffit
to allow for housing tight fit.

1/2"
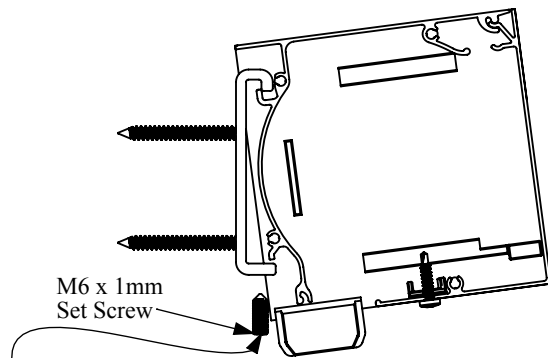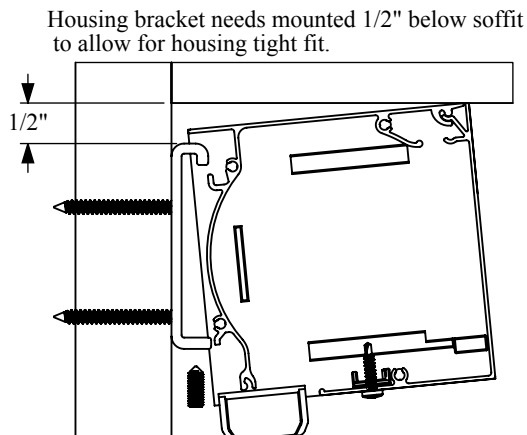
M6 x 1mm
Set Screw

Mount housing by tilting housing slightly pushing it back
against the bracket and using the (M6 x 1mm set screw).
Use 3mm allen wrench (provided) to lock in place.

5

UNDER THE HEADER MOUNT

M6 x 1mm Set Screw
Housing Bracket set screw
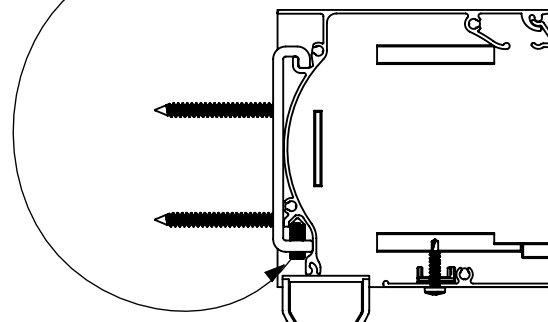
Install the unit under the header
1. Remove the front cover screws
   (#8x3/4" Pan Head Tek)
2. Hinge the front cover up and remove
3. Rotate the housing into place and use
   (M6 x 1mm Set Screw) to lock in place

Front Cover

This screw goes
through the front cover
and into the housing cap

#8 x 3/4" Pan Head Tek
Front Cover Screw
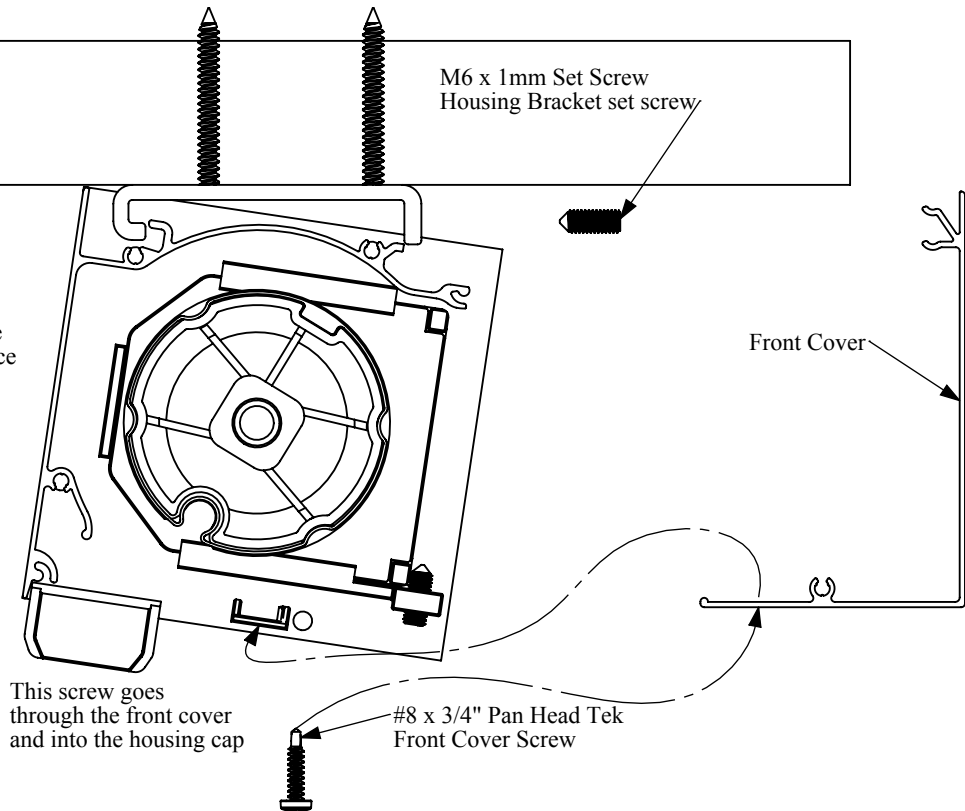
Once the housing bracket set screws are in place
and tight.
1. Install the front cover by rotating back in place
2. Install the front cover screws
   (#8 x 3/4" Pan Head Tek)

Front Cover

#8 x 3/4" Pan Head Tek
Front Cover Screws

6

RAIL CUTTING

Step 4 — Zip Guide Retainer

Step 3 — Zip Retainer

Step 2 — Zip Guide Rail

Step 1 — Outside Rail

Top zip guide rail cap

Outside Rail

Zip Guide Rail

Zip Retainer with V-notch at the top
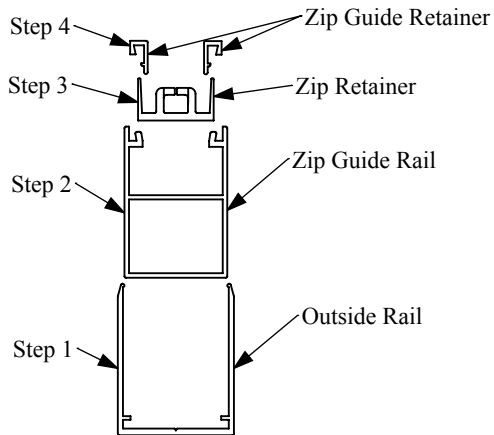
Zip Guide Retainer

Cutting

1. Measure from the bottom of the housing to the ground, Use that dimension for the outside rail cut to length. (Drawing A)
2. Use the measurement from the outside rail and deduct 1/4" off for the zip guide rail cut to length
3. Cut the zip retainer and the zip guide retainer (PVC parts) to the same length as the zip guide rail

Drawing A

Measure under housing to the floor for outside rail length

Bottom zip guide rail cap

7
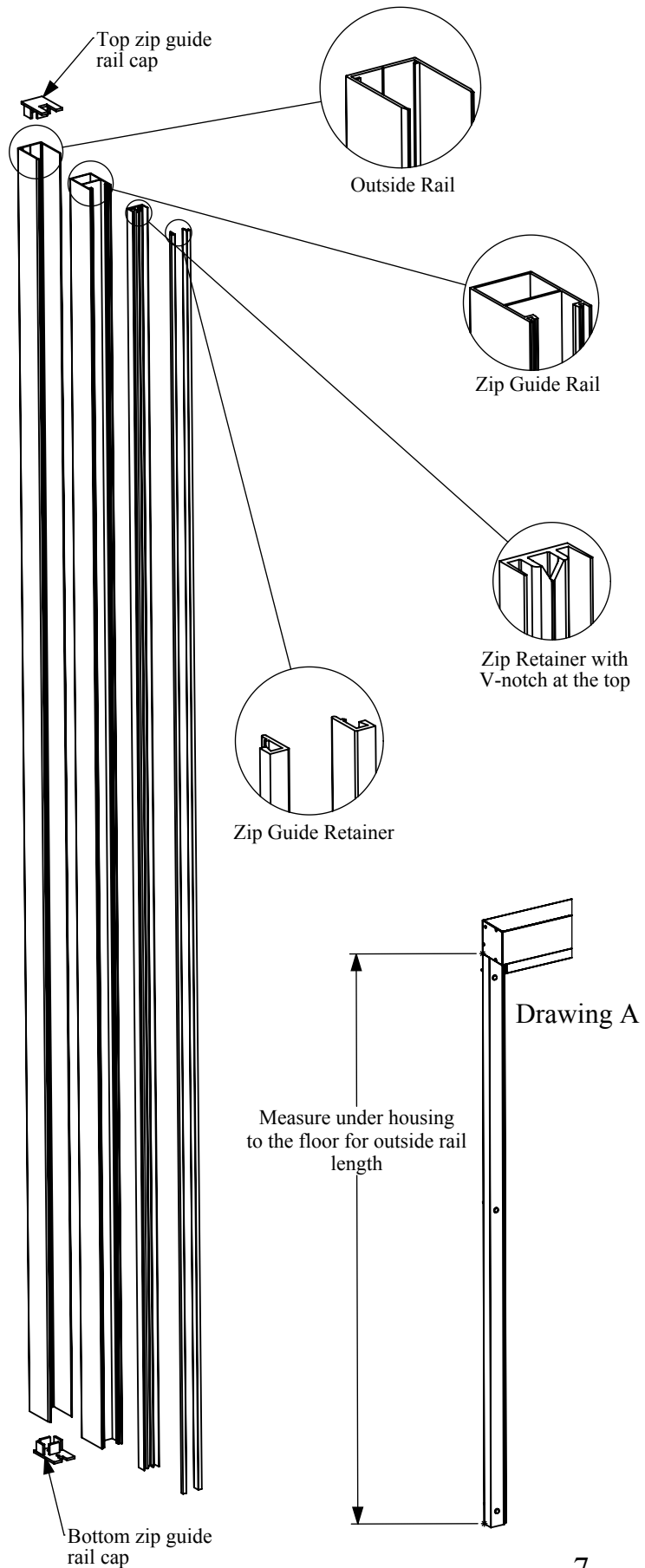
Zip Guide Rail Cap Install

Note: Top zip guide rail cap comes installed from the factory

Top zip guide rail cap

Zip guide rail

DETAIL A

Zip guide rail

Bottom zip guide rail cap

DETAIL B

Bottom rail cap needs installed on the zip guide rail by cutting the zip guide rail to length then inserting the bottom zip guide rail cap

8
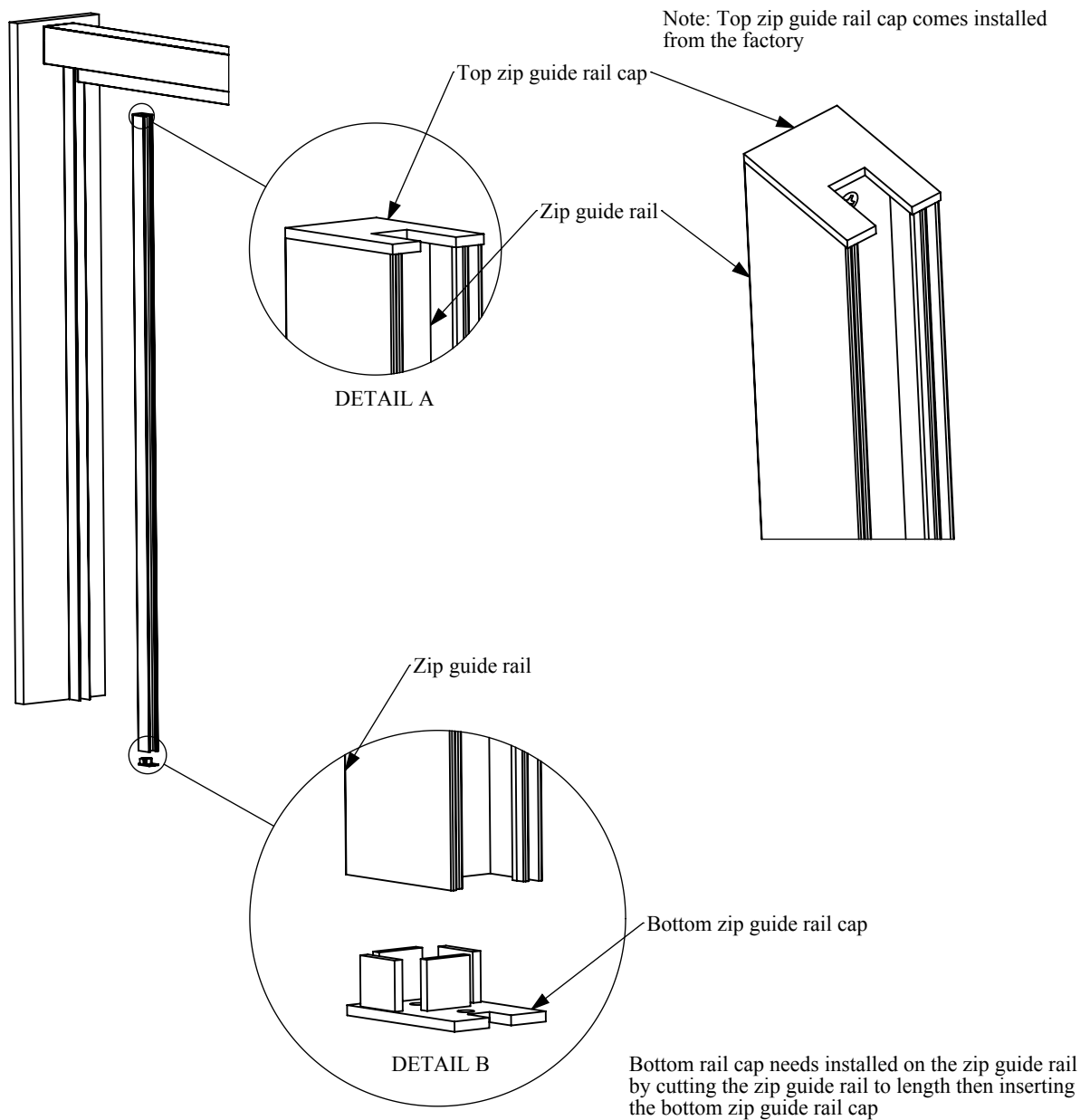
FACE MOUNT RAILS

This install is for mounting the rails on a surface or face mount.
    -Once the housing is mounted measure from under the housing cap to the ground to cut the outside rail to length.
    -Take the measurement from the outside rail deduct 1/4" and cut the zip guide rail
    -Use that same dimension from the zip guide rail length and cut the zip retainer and zip guide retainer.
    Note: Do not cut the v-notch off the zip retainer

Measure 1" from edge of outside rail for mounting screw location (#10 x 3" Pan Head SS)

1.0"

Plastic Cover Base

Plastic Cover Cap

#10 x 3" Pan Head SS

V-Notch

When installing the zip retainer the v-notch goes to the top

Use a level on the outside rail as you fasten with the (#10 x 3" Pan Head SS) screws
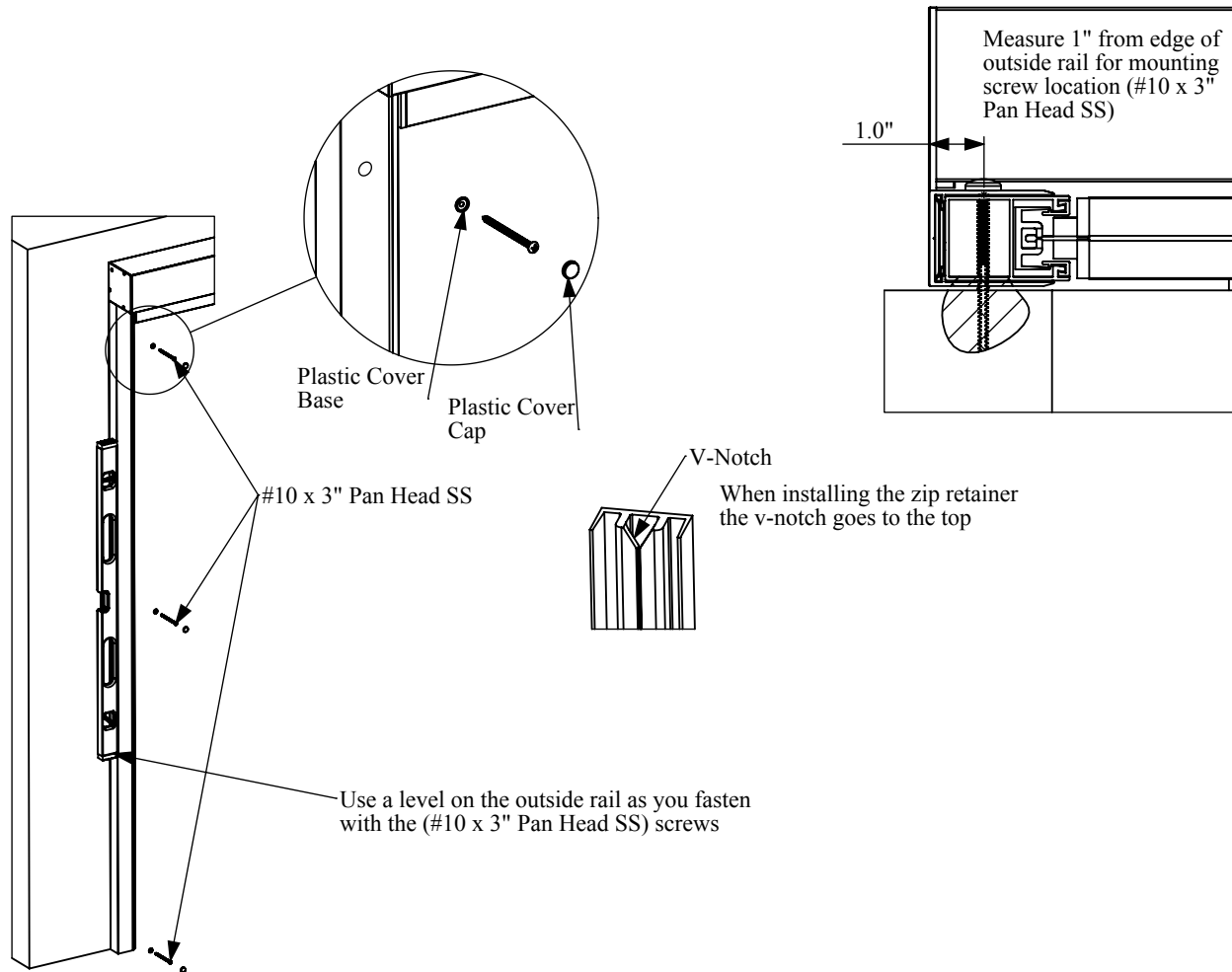
This type of install is for surface mount (face mount)
    1.Install the outside rail into the housing tab
    2.Install the zip guide rail
    3.Install the zip retainer Note: Install the V-notch at the top. Slide it over the zipper on the edge of the screen.
    4.Install power temporarily to align rails before fastening
    5.Use a level to align the rails then fasten with (#10 x 3" Pan Head SS) screws with the plastic cover caps and install
    6.Install the zip guide retainer last
<u>NOTE: Use 100% silicone spray on the zip guide to help with operation</u>

Outside rail slides up between crossbar and into the tab on the housing cap. (outside rail surface is flush with the housing cap)

9

JAMB MOUNT INSTALL

This install is for mounting the rails between jambs or between columns.
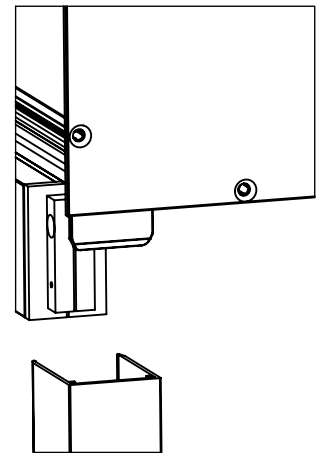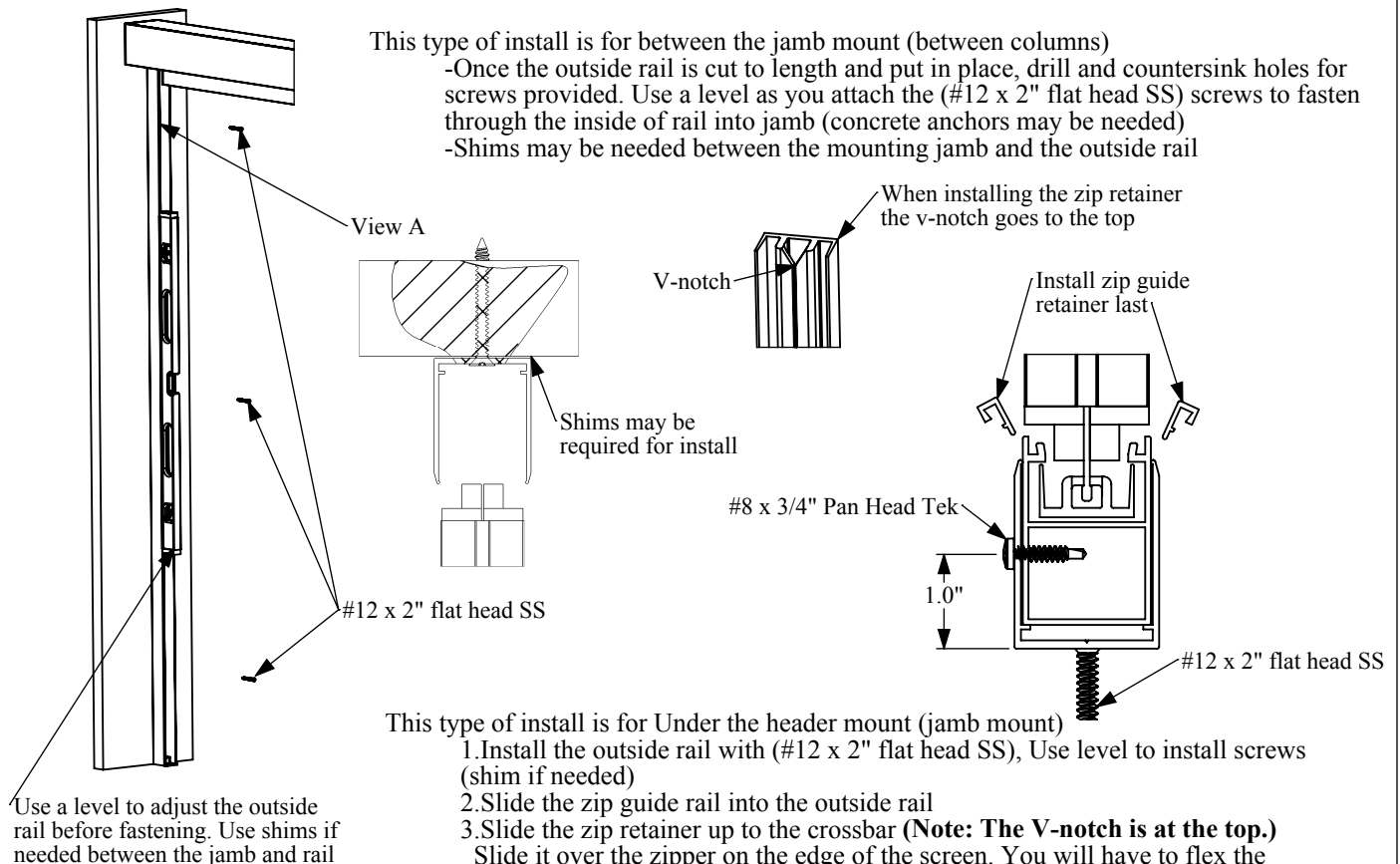   -Once the housing is mounted measure from under the housing cap to the ground to cut the outside rail to length.
      -Take the measurement from the outside rail deduct 1/4" and cut the zip guide rail
      -Use that same dimension from the zip guide rail length and cut the zip retainer and zip guide retainer.
      Note: Do not cut the v notch off the zip retainer

Housing Cap

Crossbar

Housing Cap Tab

Outside Rail

Outside rail slides up between crossbar and into the tab on the housing cap. (outside rail surface is flush with the housing cap)

Crossbar

Flush outside surface
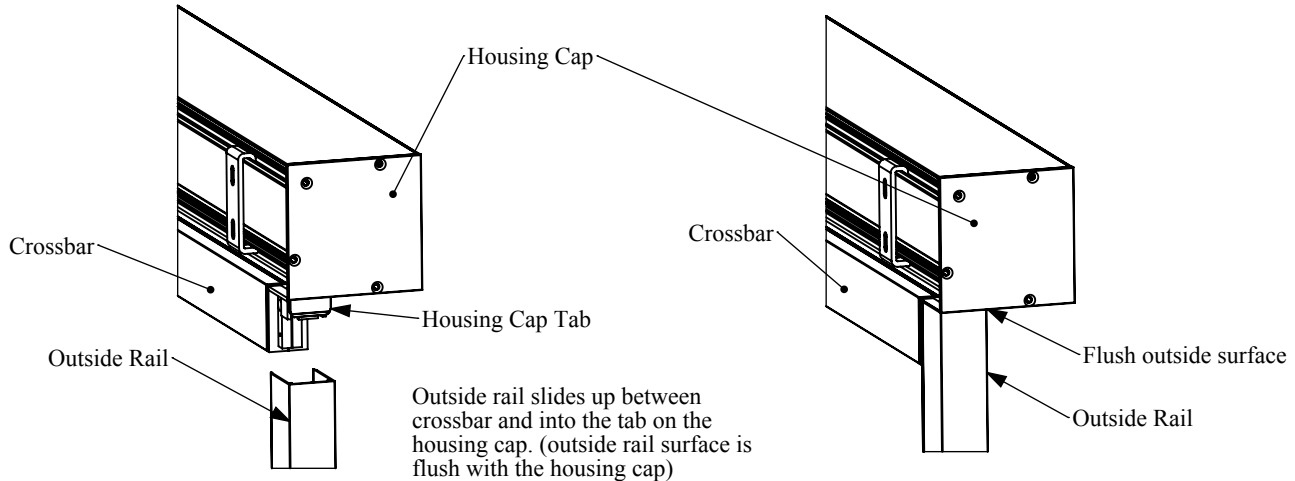
Outside Rail

This type of install is for between the jamb mount (between columns)
      -Once the outside rail is cut to length and put in place, drill and countersink holes for screws provided. Use a level as you attach the (#12 x 2" flat head SS) screws to fasten through the inside of rail into jamb (concrete anchors may be needed)
      -Shims may be needed between the mounting jamb and the outside rail

View A

When installing the zip retainer the v-notch goes to the top

V-notch

Install zip guide retainer last

Shims may be required for install

#8 x 3/4" Pan Head Tek

1.0"

#12 x 2" flat head SS

#12 x 2" flat head SS

Use a level to adjust the outside rail before fastening. Use shims if needed between the jamb and rail

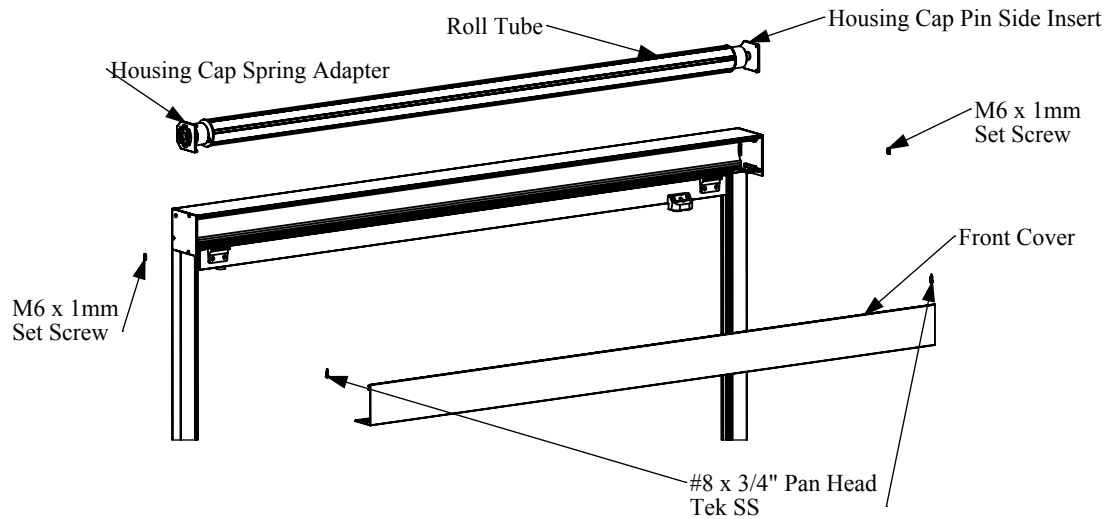This type of install is for Under the header mount (jamb mount)
      1.Install the outside rail with (#12 x 2" flat head SS), Use level to install screws (shim if needed)
      2.Slide the zip guide rail into the outside rail
      3.Slide the zip retainer up to the crossbar **(Note: The V-notch is at the top.)** Slide it over the zipper on the edge of the screen. You will have to flex the zip guide in place
      4.Install power temporarily to align rails before fastening
      5.Use the (#8 x 3/4" Pan Head Tek) screws to fasten the zip guide rail in place
      6.Install the zip guide retainers last
NOTE: Use 100% silicone spray on the zip guide to help with operation

10

REMOVING THE ROLL TUBE
ADDING SPRING TENSION

A spring unit will install the same as a motor unit as far as mounting the housing and rails
The spring unit comes from the factory with tension on the spring. If more or less tension is needed, this
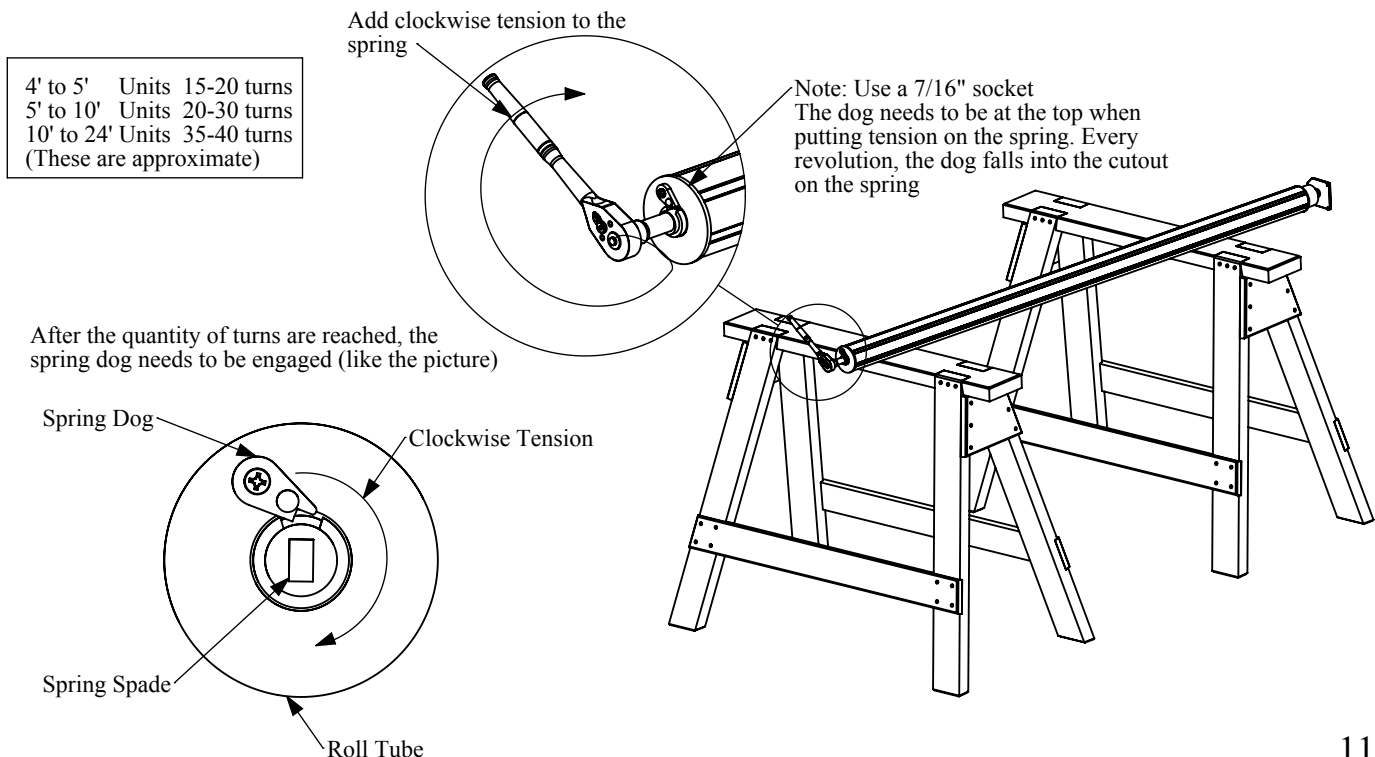will need to be done in the field

Roll Tube

Housing Cap Pin Side Insert

Housing Cap Spring Adapter

M6 x 1mm
Set Screw

Front Cover

M6 x 1mm
Set Screw

#8 x 3/4" Pan Head
Tek SS

Removing the roll tube and adding or removing tension
1. Remove the screws that hold the front cover on (#8 x 3/4" Pan Head Tek SS) Qty:2
2. Remove the front cover by lifting it up to unhinge it from the back housing
3. Remove the zip guide retainers and the zip retainer
4. Remove the (M6 x 1mm Set Screws) Qty:2. These hold the spring adapter and the pin side insert in the housing cap
5. Slide the roll tube out of the housing.
 WARNING *the spring adapter will be under tension from the factory. When removing, one hand needs*
 to hold the spring adapter so it won't fly off the end as you slide it out.
6. Once out, you can pull the spring adapter off the end of the spring. Make sure to hold onto the spring adapter. The tension will
   come unwound off the spring.
WARNING *Before adding tension make sure all of the tension is off the spring. If not, failure will occur by*
1. Weak spring 2. Broken spring

Add clockwise tension to the
spring

4' to 5'	Units	15-20 turns
5' to 10'	Units	20-30 turns
10' to 24'	Units	35-40 turns

(These are approximate)

Note: Use a 7/16" socket
The dog needs to be at the top when
putting tension on the spring. Every
revolution, the dog falls into the cutout
on the spring

After the quantity of turns are reached, the
spring dog needs to be engaged (like the picture)

Spring Dog

Clockwise Tension

Spring Spade

Roll Tube

11

INSTALLING THE SPRING ROLL TUBE
IN THE HOUSING

Once the tension is put back on the spring you need to install the roll tube
1. Put the pin side idler insert in the roll tube.
2. Put the spring adapter on the end of the spring
WARNING *spring is under tension do not rotate spring adapter*
NOTE: Make sure the dog on the end of the spring is in the down position
3. Slide the unit into the housing caps
4. Use the (M6 x 1mm set screws) to hold the inserts in place
5. Install the zip retainer and zip guide retainers in the rail
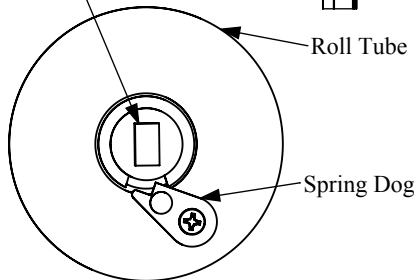Note: Make sure zipper screen edge slides into the zip retainer

When installing the spring adapter
on the end of the roll tube the dog
needs to be in the down position

Spring Spade
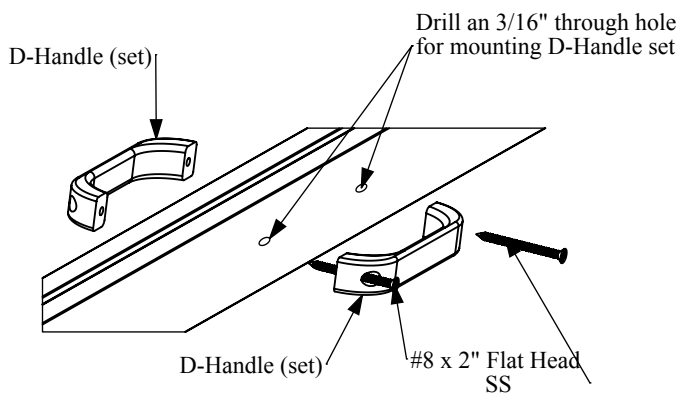
Roll Tube

Spring Adapter

M6 x 1mm
Set Screw

Spring Dog

When installing the spring unit back into the housing
this is how the end of the spring should look.(Detail A)
1. The spring dog has tension locked in place and is in the down position
2. The spring spade is vertical
Now the spring system is ready to slide into the housing caps

Detail A

D-Handle Install

D-Handle (set)

Drill an 3/16" through hole
for mounting D-Handle set

D-Handle (set)

#8 x 2" Flat Head
SS

NOTE:
If you only want a half D-Handle use the side with through holes
and drill 1/8" holes in the side of the crossbar you want the
handle on. Use #8 x 3/4" Tek to attach.

Magnet Base & Strike Plate
Install

#8 x 1"
Flat Head
SS

Drill 1/8" holes

Strike Plate

Magnet Base
for S2

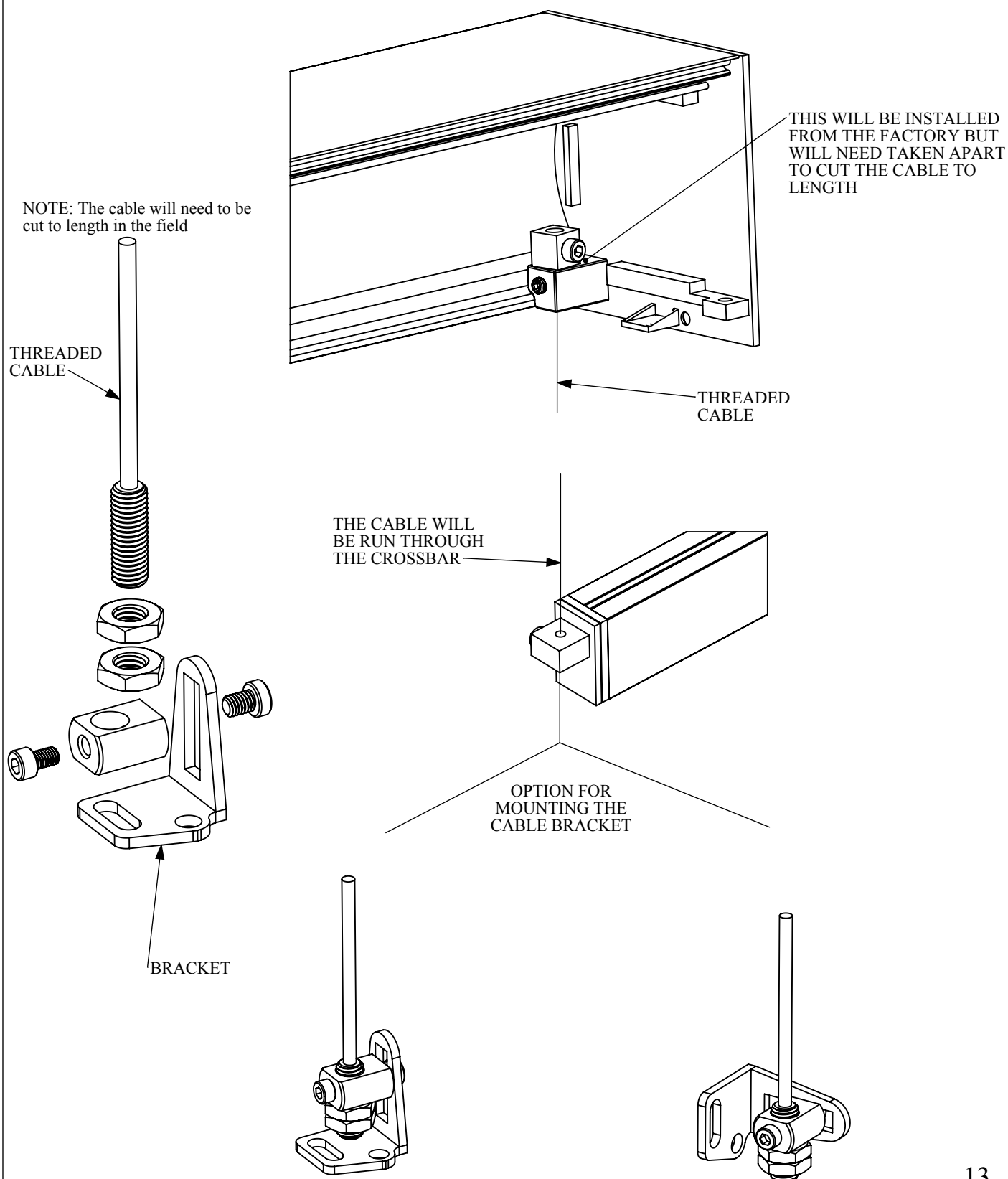#8 x 3/4"Tek
Pan Head
Painted
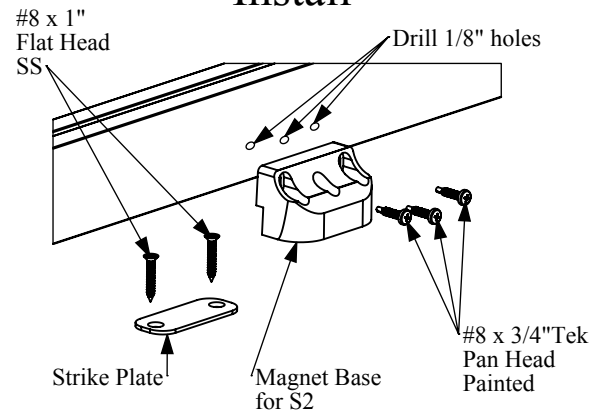
NOTE:
Magnets will be installed on S1 versions. You will
only have to mount the strike plate

12

CABLE SYSTEM ATTACHMENT

When mounting a cable system. The cable attachment inside the housing will be done from the factory. The cable will be through the crossbar cap on both caps. The installer will have to decide how to mount the cable hold down bracket.

THIS WILL BE INSTALLED FROM THE FACTORY BUT WILL NEED TAKEN APART TO CUT THE CABLE TO LENGTH

NOTE: The cable will need to be cut to length in the field

THREADED CABLE

THREADED CABLE

THE CABLE WILL BE RUN THROUGH THE CROSSBAR

OPTION FOR MOUNTING THE CABLE BRACKET

BRACKET

13

Wiring Instructions for RTS 50mm motor

Hard Wire

50mm RTS MOTOR
WIRING COLOR CODE

120V AC	CODE
BLACK	(H)HOT
WHITE	(N)NEUTRAL
GREEN	(G)GROUND

50mm RTS MOTOR

HOT

BLACK

NEUTRAL

WHITE

GROUND

GREEN
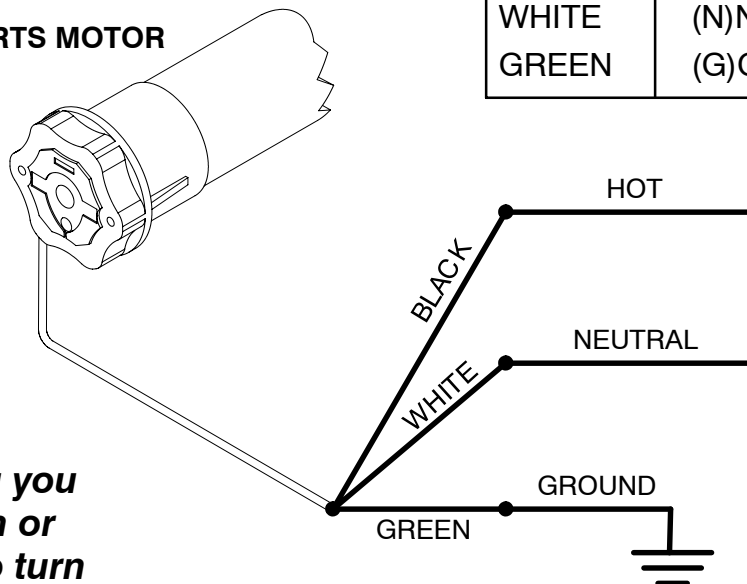
Note:
When hard wiring you will need a switch or plug to be able to turn the power on and off for maintenance

OR

Wall Outlet

50mm RTS MOTOR

Male
Plug

(Refer to the above wiring diagram for color codes)
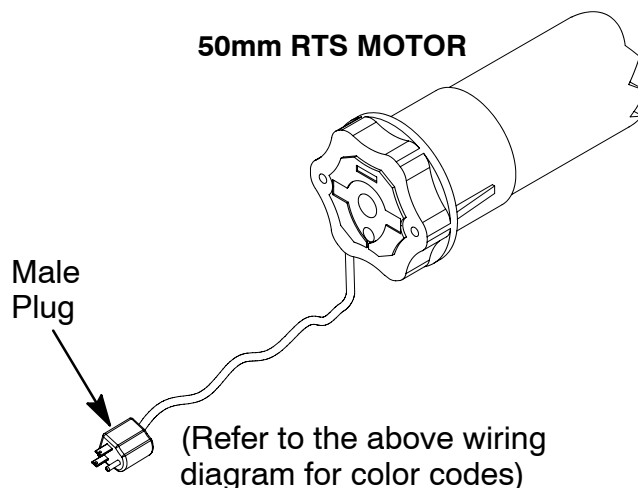
IMPORTANT: All wiring must conform to NEC (National Electric Code) and local codes.

☐ You may hard wire your unit (top diagram) or attach a male plug to your pigtail wire (bottom diagram). ***If you hard wire it you will need to turn it on and off for maintenance.***
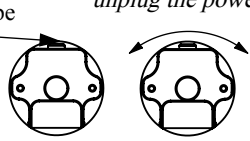
14

LIMIT SETTING

Only have the power connected to one motor at a time

1.Assigning a remote to a motor (*note: only works on the first remote*)

Method A. *As you apply power the first time be ready with the remote to start the process you have (10 sec). If you take longer you can just unplug the power and try again.*

Roll Tube
Motor

Up

1x

Down

Stop

1x
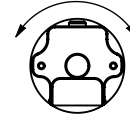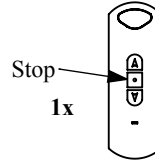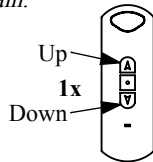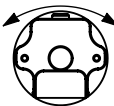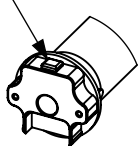
The remote will now work with the motor

Connect power to the motor the roll tube will vibrate or jog. You have 10 seconds to complete the next step

Press the Up and Down buttons simultaneously, then release

Press the Stop button 1 time, the motor will vibrate or jog

Method B. *In order to use this method you have to remove the front cover to access the red button on the motor head.*

Red button
on the motor

Up

1x

Down

Stop

1x
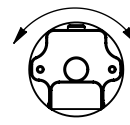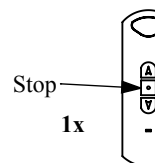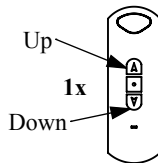
The remote will now work with the motor

Press the red button on the motor for 1 second, the motor will vibrate or jog

Press the Up and Down buttons simultaneously, then release

Press the Stop button 1 time, the motor will vibrate or jog

2.Checking the direction of the motor and changing if needed

Note:When you push the Up or the Down button to check the direction of the motor the screen will start traveling in that direction. You need to push the Stop button before you change the direction. Direction of the motor can be changed even after the limits are set
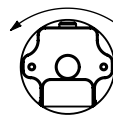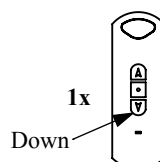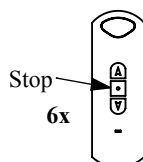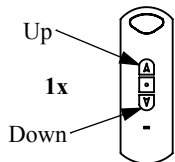
Up

1x

Down

Stop

6x

1x

Down

Press the Up and Down buttons simultaneously, then release

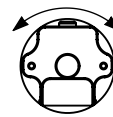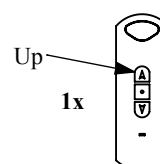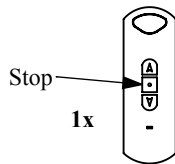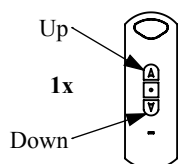Press the Stop button 6 times

Press the Down button 1time, the motor will vibrate

The Up and Down direction of the motor have been reversed

3.Turn on "Step by Step" mode

Note: "Step by Step" mode allows the motor to move fractions of an inch when the Up and Down buttons are pushed. When the Up and Down buttons are released the screen stops moving

Up

1x

Down

Stop

1x

Up

1x

The motor is now in "Step by Step" mode

Press the Up and Down buttons simultaneously, then release

Press the Stop button 1 time

Press the Up button 1 time, the motor will vibrate

15

LIMIT SETTING

### *Only have the power connected to one motor at a time*

4.Setting the Top limit

To set the Upper limit, adjut the crossbar to the location you want the Upper limit to be

Up

1x

Down

→

Stop

2x

→

Up

1x

Now the Top limit is set

Press the Up and Down buttons simultaneously, then release

Press the Stop button 2 times

Press the Up button 1 time, the motor will vibrate
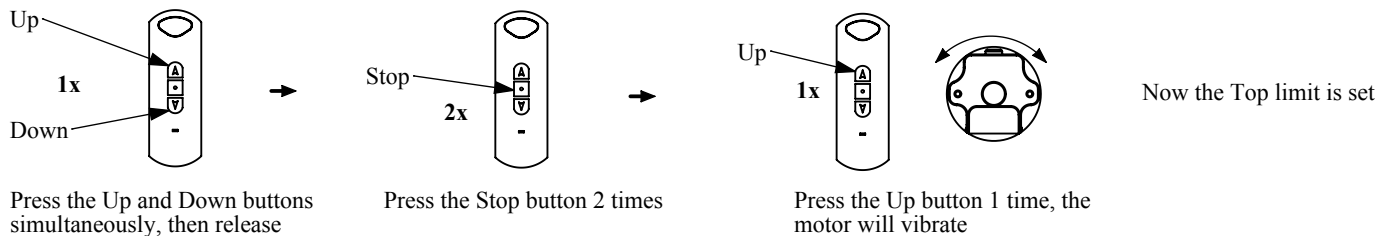
5.Setting the Bottom limit

To set the Bottom limit, adjut the crossbar to the location you want the Bottom limit to be

Up

1x

Down

→

Stop

2x

→

1x

Down

Now the Bottom limit is set

Press the Up and Down buttons simultaneously, then release

Press the Stop button 2 times

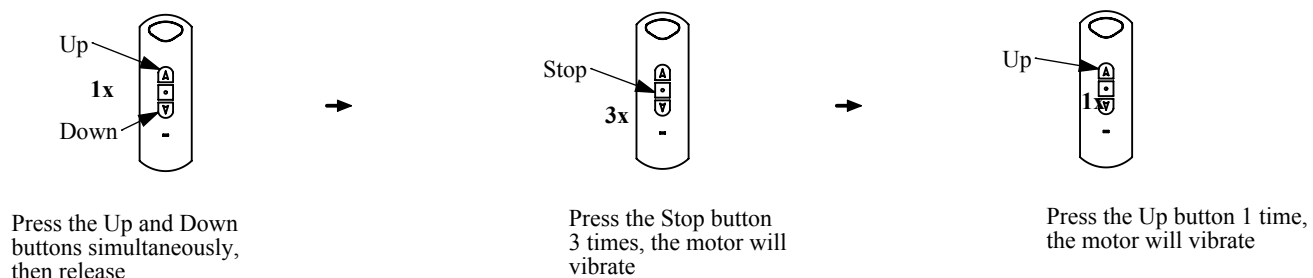Press the Down button 1 time, the motor will vibrate

---
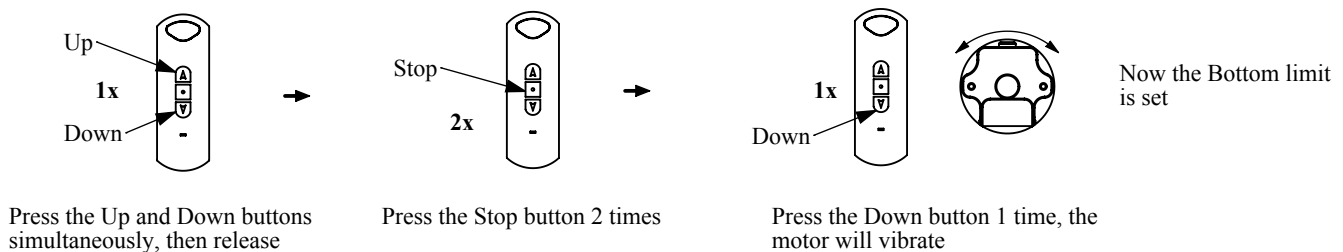
6.Turn off "Step by Step"

During Step by Step mode if you hold a direction button more than 2 sec the screen will will continue to run after you let go of the button until you push the stop button wich will put it back to Step by Step

Up

1x

Down

→

Stop

1x

→

1x

Down

The screen unit will operate normal

Press the Up and Down buttons simultaneously, then release

Press the Stop button 1 time

Press the Down button 1 time, the motor will vibrate
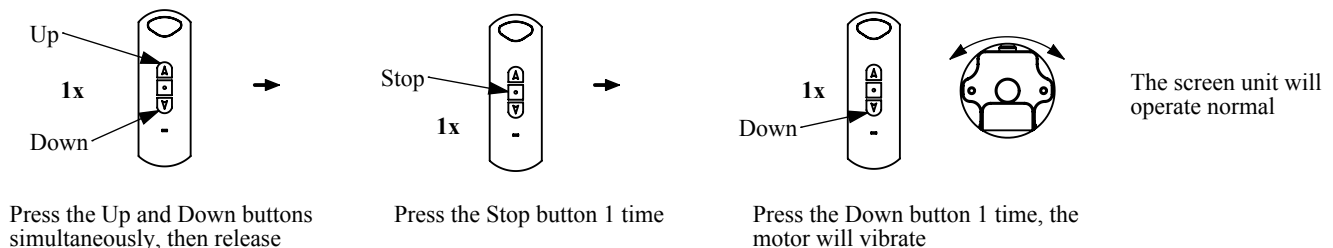
Turn on Obstacle Detection mode

This step makes sure the Obstacle Detection is on.This will detect if anything is under the screen when it touches the object it will stop then travel back up 12" and try going down again. If it touches the object again it will repeat this process 3 times then it will just stop 12" above the object waiting for you to clear the object and push Down
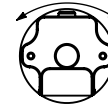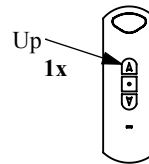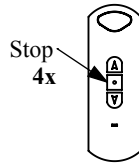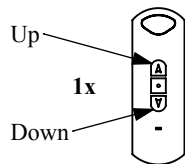
Up

1x

Down

→

Stop

3x

→

Up

1

Press the Up and Down buttons simultaneously, then release

Press the Stop button 3 times, the motor will vibrate

Press the Up button 1 time, the motor will vibrate

16

DELETING LIMITS

Only have the power connected to one motor at a time

Deleting the Top limit

This step will delete the Upper limit only

Up — **1x** — Down → Stop **4x** → Up **1x**

The Top limit is now deleted. To set a new Top limit skip to step 4
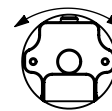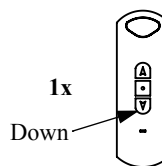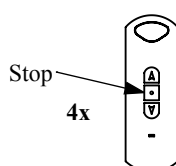
Press the Up and Down buttons simultaneously, then release

Press the Stop button 4 times

Press the Up button 1 time, the motor will vibrate

Deleting the Bottom limit

This step will delete the Lower limit only

Up — **1x** — Down → Stop **4x** → **1x** Down

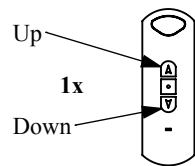The Bottom limit is now deleted. To set a new Bottom limit skip to step 5

Press the Up and Down buttons simultaneously, then release

Press the Stop button 4 times

Press the Down button 1 time, the motor will vibrate

Deleting a remote (or channel) from a motor

This will delete only the remote you are using in your hand

Up — **1x** — Down → Stop **7x** → Up **1x**
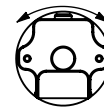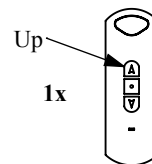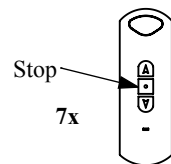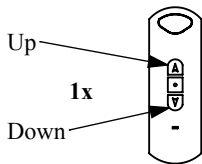
After this step start over setting the limits

Press the Up and Down buttons simultaneously, then release

Press the Stop button 7 times

Press the Up button 1 time, the motor will vibrate

Deleting everthing saved to this motor

WARNING: This step will delete everthing saved to this motor and set it back to factory settings

Up — **1x** — Down → Stop **6x** → Up **1x**

After this step the motor will have no memory and will be back to factory mode. Ready to start setting limits
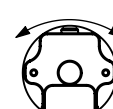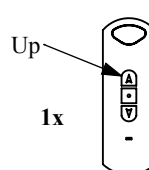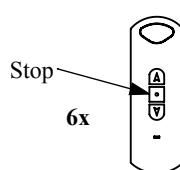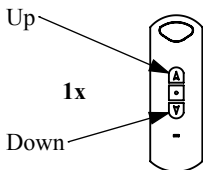
Press the Up and Down buttons simultaneously, then release
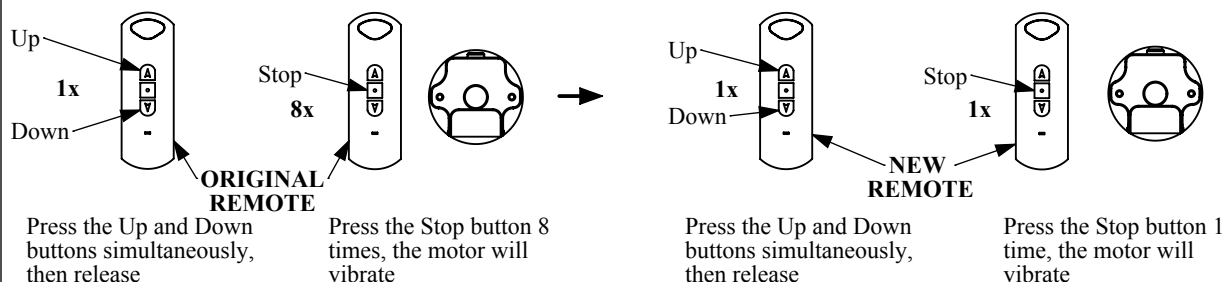
Press the Stop button 6 times

Press the Up button 1 time, the motor will vibrate

LIMIT SETTING

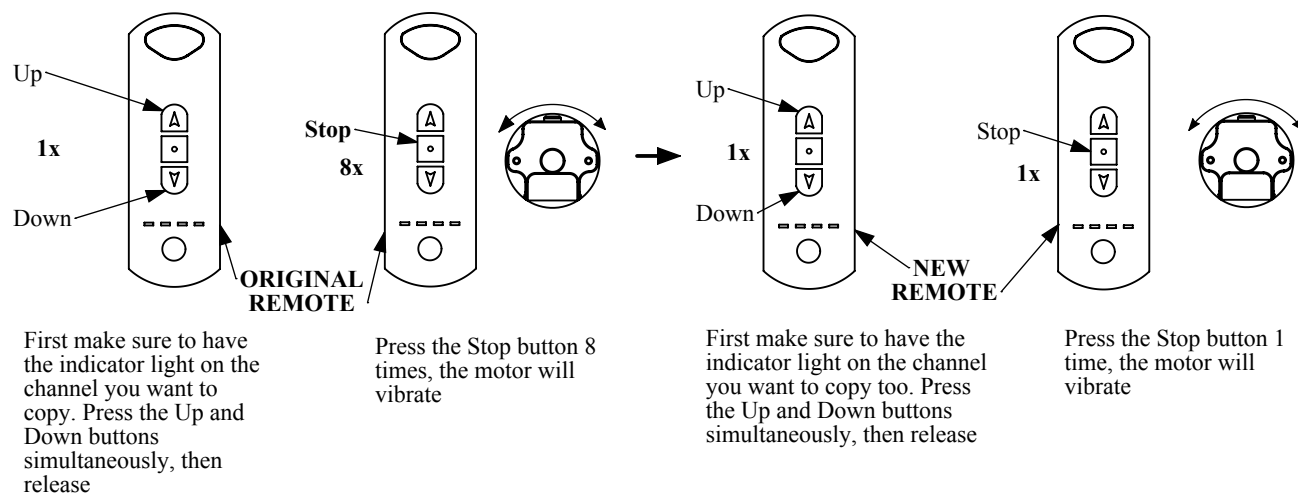## *Only have the power connected to one motor at a time*

Adding a remote

This step will copy the remote you used to set the limits and create a duplicate

Up

1x

Down

ORIGINAL REMOTE

Stop

8x

Press the Up and Down buttons simultaneously, then release

Press the Stop button 8 times, the motor will vibrate

Up

1x

Down

NEW REMOTE

Stop

1x

Press the Up and Down buttons simultaneously, then release

Press the Stop button 1 time, the motor will vibrate

Copying a channel

This will cpoy individual channels to another multi channel remote

Up

1x

Down

ORIGINAL REMOTE

Stop

8x

First make sure to have the indicator light on the channel you want to copy. Press the Up and Down buttons simultaneously, then release

Press the Stop button 8 times, the motor will vibrate

Up

1x

Down

NEW REMOTE

Stop

1x

First make sure to have the indicator light on the channel you want to copy too. Press the Up and Down buttons simultaneously, then release

Press the Stop button 1 time, the motor will vibrate

Up Button

Stop Button

Down Button

Indicator Lights each light represents a channel, when all lights are on that means all units will complete the task of the button pushed

Toggle Button moves between each indicator light

18