



Habitat PLUS

If nothing else, at least read this page!

Talius has been producing retractable screens since 1998 and in that time we have found that most issues experienced are related to the product installation. It is essential to follow the installation guidelines. We urge installers to take the time now to read the instructions and avoid costly, time-consuming problems later.

We hope that this installation guide is easy to use. Should you discover an error or an omission please tell us about it so we can ensure these instructions are as inclusive as possible.

Should you require any support or have any questions, please call us from site: 888-550-6205
(M-F 8am to 4:30pm PST)

We thank you for putting your trust in us.

Sincerely,

Your Talius Customer Service Team

Contents

Parts Overview 1

System Components 2

Installation

Step 1	Unboxing the unit	3
Step 2	Preparing for install	3
Step 3	Remove housing cover	3
Step 4	Remove locking key	4
Step 5	Remove support brackets	5
Step 6	Remove roller tube	5
Step 7	Drill hole for motor cable	5
Step 8	Drill mounting holes	6
Step 9	Mount the unit housing	6
Step 10	Mount the roller tube	6
Step 11	Reinstall the locking key	7
Step 12	Release the guide cables	7
Step 13	Affix the cable guides	7
Step 14	Affix the bottom mount	8
Step 15	Adjust the tension	9
Step 16	Check unit operation	9
Step 17	Reinstall the cover	9
Step 18	Customer review & training	9

Setting the Motor Limits

Standard Limit Motors	
Adjusting the Preset Limits	10
RTS Motors	
Setting for the first time	11
Adjusting the Preset Limits	12
Contact Sensing Motor	13
General notes for all motor types	14

RECOMMENDED INSTALLATION TOOLS AND MATERIALS

Each Habitat Plus Screen installation requires a minimum of 2 installers. Not all installations are the same. While the following items will not be required on every installation, this is a list of minimum requirements that we recommend for the majority of Habitat Plus Screen installations. While we do not supply common tools and hardware, contact us to purchase specialized tools like motor tester cables.



Talius does not supply the fasteners. We believe this is better handled by the Talius Dealer, based on the on-site construction considerations.

- Level 4', tape measure, markers
- Cordless drill, indexed drill bit set, multi driver set
- Full screwdriver set, multi-driver set
- Needle-nose pliers, regular pliers
- Allen key set (metric)
- 3/32" Hex Key and optional tight clearance ratcheting screwdriver, flexible shaft screwdriver, or HD flex adaptor
- Hacksaw, razor knife
- Extension cords, cleansers, rags
- Wood and concrete chisels, hammer
- Tin snips, file
- Side cutters, wire strippers
- Masonry drill or ½" hammer drill
- Long Ø½" (13mm) and Ø¾" (19mm) drill bits
- Block of wood
- 035-.040" (0.9 - 1.0mm) feeler gauge
- Caulk gun, caulking and sealants
- Putty knife
- Spare screws
- Tubular motor limit adjusters
- Electrical tape, masking and duct tape
- Short and tall ladders, tool pouch
- Spare lag bolts, masonry anchors
- Adjustable wrench or 1 5/8" open ended wrench
- 7/16" wrench

Useful but not necessary:

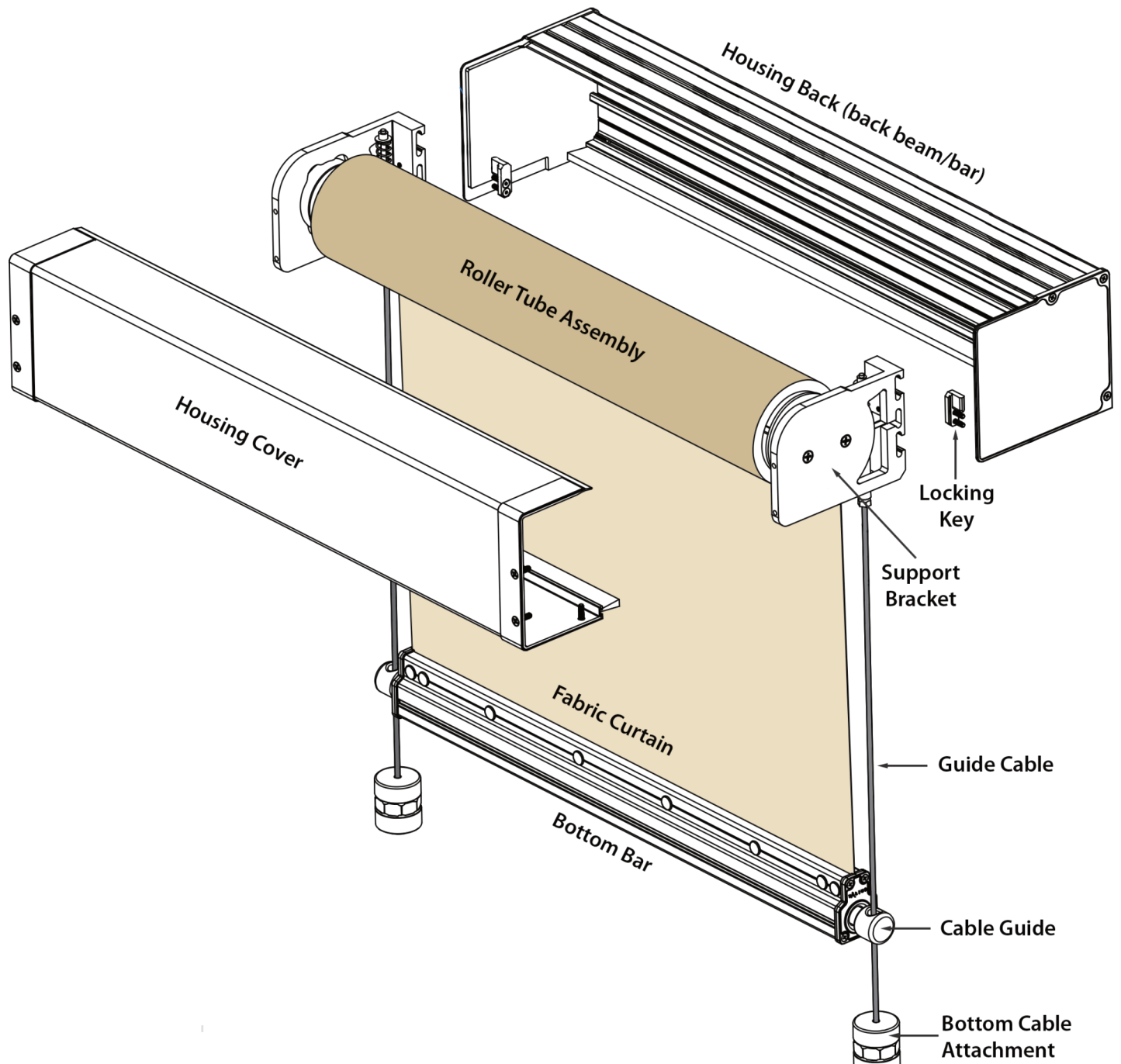
- Cable cutter capable of cutting S.S. 3/16" cable
- Cable crimper nicopress tool 51-MJ Groove M
- Plumb bob auto-leveling
- Laser level

Available from Talius:

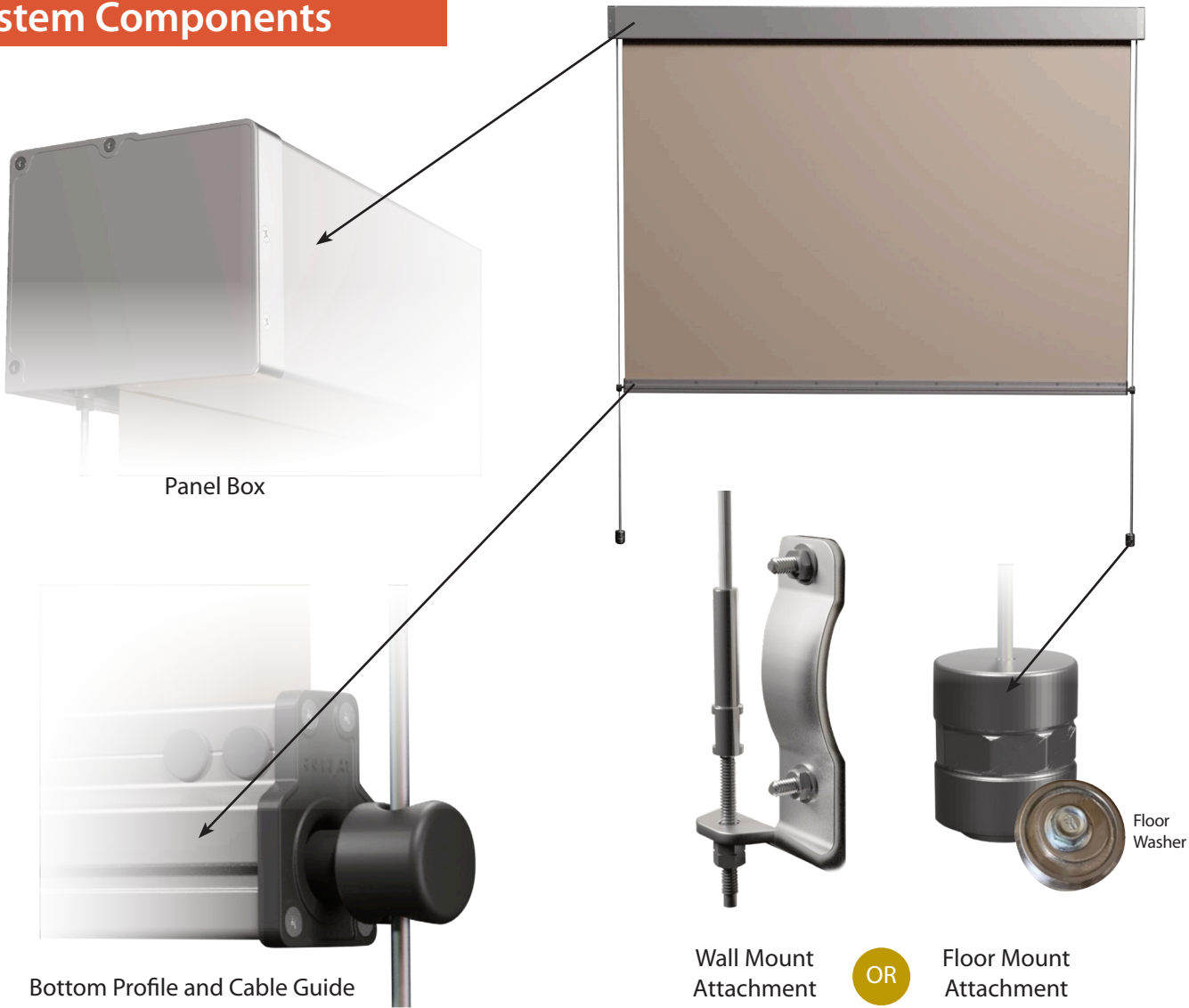
- Plastic caps for screw holes
- Touch-up paint and brushes: brown, white, silver, beige, and black
- Ø8.5mm/Ø5mm step drill bit
- Ø10mm/Ø5mm step drill bit
- Tubular motor tester cable

TALIUS

Parts Overview



System Components



Unboxing the unit

Carefully unpack the unit by opening cardboard box and removing the bubble wrap.

Leave the cables coiled up

Place the Habitat Plus unit on the cardboard packaging.

This will prevent scratching the unit or damaging the surface below during drilling and the following mounting procedures.



Prepare for install

Gather the necessary tools and recommended fasteners for the mounting surface type. Refer to the recommended fastener schedule provided on the inside back cover of this guide.



Wood Fasteners



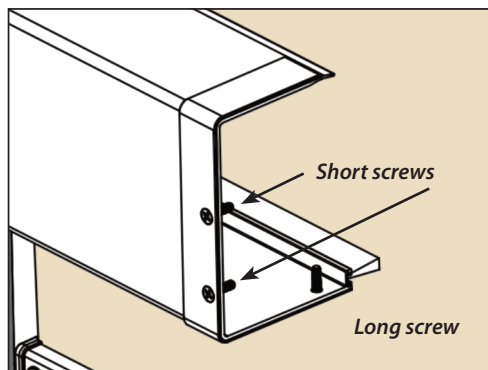
Masonry Fasteners



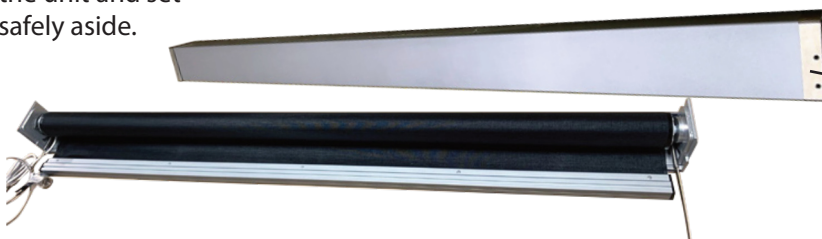
Remove housing cover

Remove the 3 machine screws from the cover and set aside.

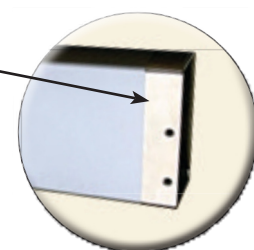
Note: The screw located on the housing bottom is longer than the others.



Using 2 people lift the housing cover off the unit and set safely aside.



Leave the Stainless-steel trim pieces in place.



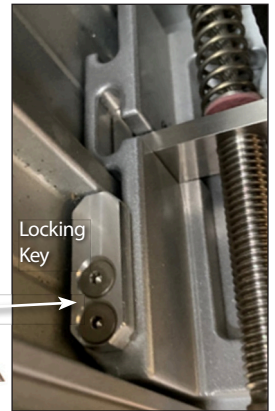
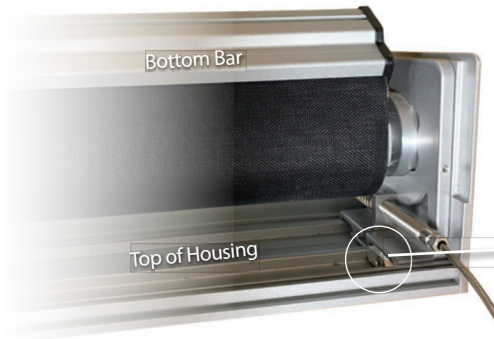
Remove Locking Key

Rotate the housing so that it is resting on the top of the Habitat Plus housing.

Position the curtain bottom bar on top of the tube in order to expose the back of the box

Locate the locking keys fastened to each support bracket.

The support brackets are held in place by the locking keys.



Remove both screws from each locking key using a 3/32" Hex Key.

There are a number of tools available to make this quick and efficient. If you use a power tool, be certain to set the clutch low and speed on 1 so as to ensure you do not snap the hex driver bit. **A hand tool is the safest method for this step.**



*Tight Clearance Ratcheting
Screwdriver*

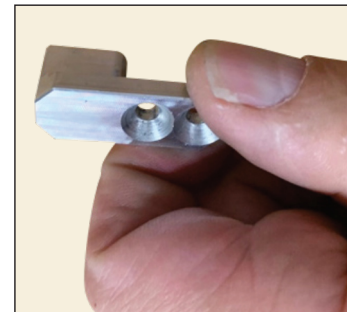


*Flexible Shaft Bit
Screwdriver*



*Heavy Duty Flex Adaptor for
Cordless Power Tools*

Slide the locking keys out of each support bracket and set aside.

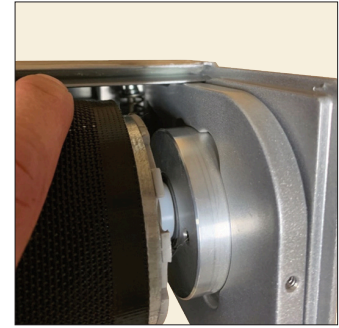
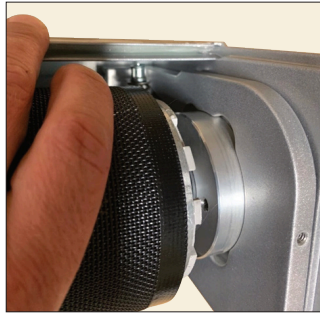


Remove the protective film from the components when it is safe to do so.



Remove support brackets

Remove the support brackets and roller tube assembly by sliding the support brackets up towards the top of the housing

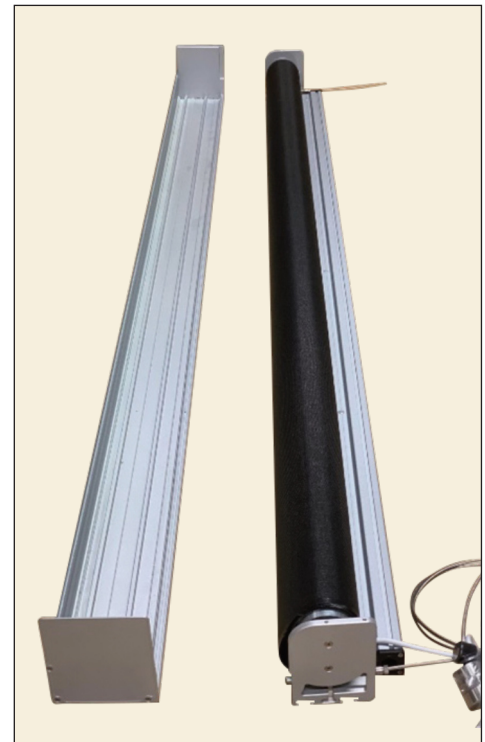
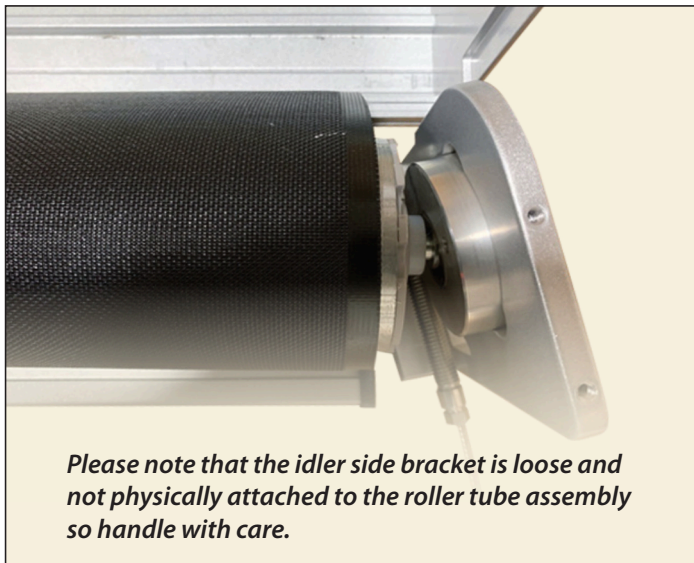


Remove roller tube

This step requires both installers.

Lift the assembly out of the housing while holding the roller tube and support brackets at each end.

Safely set aside



Drill hole for motor cable

Drill exit holes in the housing where required for the motor cable to exit.

Ensure the motor cable is not placed where it may interfere with any other parts.

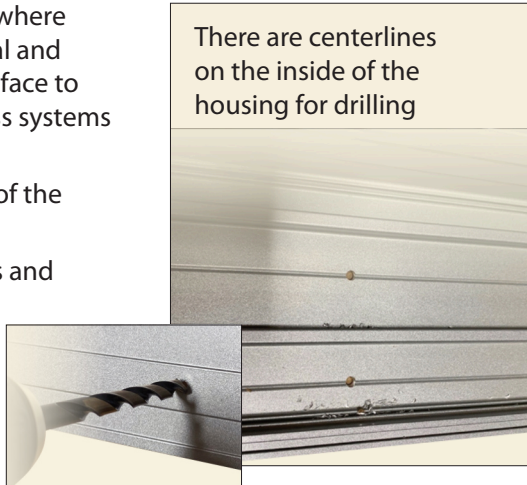


Drill mounting holes

Drill through the housing in locations where there will be sufficient backing material and structural support in the mounting surface to support the unit. Studs in a wall or truss systems in a header provide the best support.

Keep fasteners as close to the outside of the housing as possible.

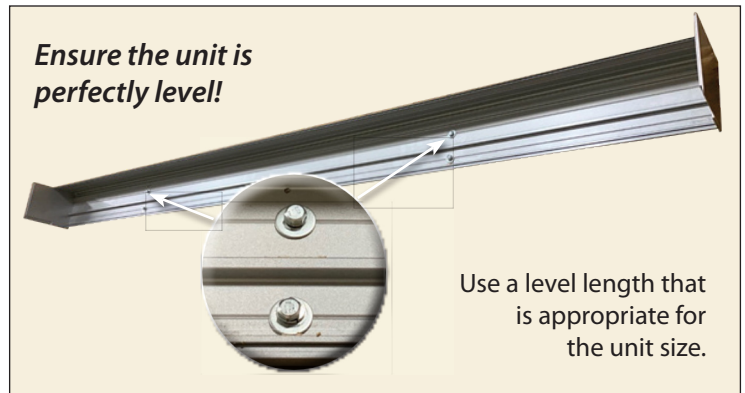
Ensure to protect the building surfaces and Habitat Plus unit from any filings generated during this drilling process. Remove any burrs created as necessary. A larger diameter drill bit can perform this function.



Mount the unit housing

With 2 people, lift the back of the housing into place and fasten securely to the building.

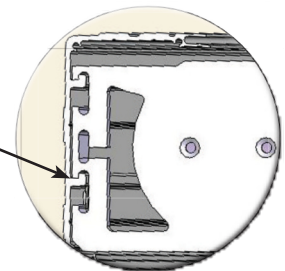
As with any rolling textile product, it is extremely critical that the housing be mounted perfectly level. Shimming of the product, such as by using washers at the fastening points between the housing and the header, may be required. **Any deviation from this, even the slightest may result in a product that does not roll up and down straight or level. It can also result in waves or wrinkles in the fabric.**



Mount the roller tube

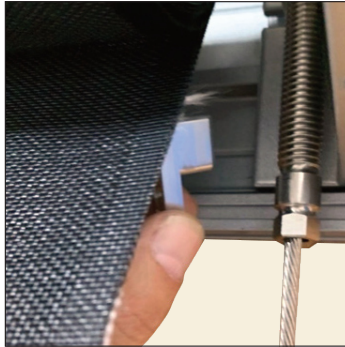
With 2 people, lift the roller tube and support bracket assembly into place within the housing.

The support brackets should enter the back of the housing at the highest possible position and then come to rest down on the hook channels provided on the back beam of the housing.



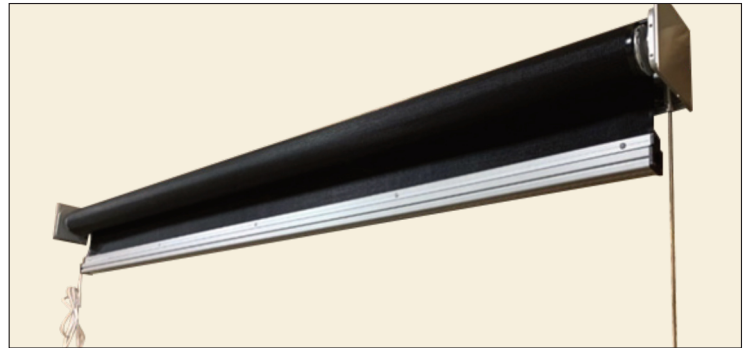
11 Reinstall the Locking Keys

Reinstall the locking keys into both support brackets with the supplied screws



12 Release the guide cables

Cut the stretch film to release the stainless steel guide cables. Allow them to hang to the point where they will be attached.



13 Affix the cable guides

Slide each plastic cable guide up the cable to meet the Habitat Plus bottom bar.

Insert the cable guide posts into the holes located on the bottom bar end-caps.

Press in until they lock in place.



14 Affix the bottom mount

Using a plumb bob, laser level, or other measuring device, mark the mounting surface where the bottom of the cable will be fastened.

Ensure the cables are plumb and form a straight line from the top to the bottom of the cable length. It is important to use the appropriate tools to perform this work



Using the appropriate fasteners for your mounting surface, attach the floor washer or mounting bracket to the surface.



In the case of a bottom mount, the cable bushing will screw onto the floor washer



15 Adjust the tension

Adjust the tension of the cables by turning the cable tensioner at the top of the cable.



16 Check unit operation

Operate the unit to check for smooth operation. Refer to the following pages for instruction on the programming of the motor and controls.



17 Reinstall the cover

Reinstall the cover and clean up work area.



18 Customer review & training

Review with and train the customer on operation of the product.



Setting the Motor Limits

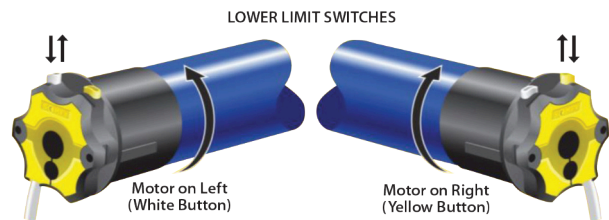
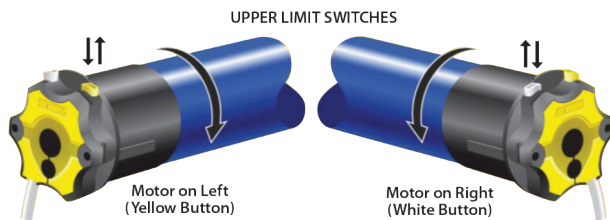
Standard Limit Motors

Programming the Limit Settings



Before getting started, note which side the motor is mounted on. This will determine which limit switch sets the UPPER or LOWER limits. See diagrams below.

Talius strongly recommends using a tester cable to set motor limits, and to ensure the system is operating correctly before the final electrical connection is made.



LOAD CURTAIN INTO UNIT

The PRESET LOWER LIMIT should already be at the correct closed position. Engage the switch/tester cable to ensure the motor is indeed at the bottom limit.

ATTACH CURTAIN TO ROLLER TUBE

Run unit up until the curtain stops at temporary PRESET UPPER LIMIT.

UNLOCK THE UPPER LIMIT SWITCH ON MOTOR

The UPPER and LOWER Limit switches are indicated on the inside of the endplate. Press the appropriate button down and release it. The button will stay pressed in.

SET THE NEW DESIRED UPPER LIMIT

Run curtain up to new desired UPPER limit and stop.

Press down and release the button again so that the button pops up. This will lock in the new UPPER limit position.

PREPARE FOR ADJUSTING THE LOWER LIMIT

Run the unit downwards until the curtain stops at the PRESET LOWER LIMIT

UNLOCK THE LOWER LIMIT SWITCH ON MOTOR

Locate the LOWER limit switch on the motor (indicated on end plate). Press the appropriate button down and release it. The button will stay pressed in.

SET THE NEW DESIRED DOWN LIMIT

Run unit down to new desired LOWER limit and stop.

Press down and release the button again so that the button pops up. This will lock in the new LOWER limit position.

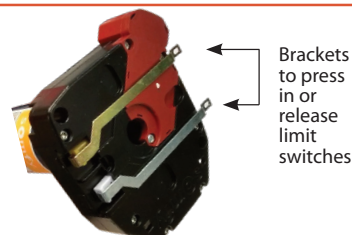


CHECK IT

Test the unit to ensure the unit stops automatically where you wish it.



Certain positions of the manual override motor make it difficult to access the limit push button switches. In these cases, Talius supplies metal brackets in which tabs are accessible to press in or release switches as necessary. The tabs are labeled "Up" and "Down" on the inner panel box endplate for quick identification.



RTS Motors

Programming the Limit Settings



If you did not request Talius to pre-set the limit settings on your unit prior to shipping, follow the steps below to set UPPER and LOWER Limits for the first time. If you requested Talius to pre-set the limits but need to adjust them, please refer to the instructions on the next page.

INITIATE PROGRAMMING MODE

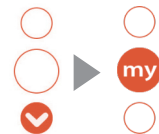
On the remote, press both the **UP** and **DOWN** buttons at the same time until the motor jogs.

Note: After every command the motor will jog to confirm.



CHECK THE DIRECTION OF OPERATION

Press and hold the **DOWN** button on the remote and confirm that the motor moves in the down direction (the motor will operate in momentary fashion). To change the direction, press and hold the **MY (stop)** button until the motor jogs.



Operate motor to your desired Upper Limit position.

SET THE LOWER LIMIT

Press and hold the **MY (stop)** and **DOWN** buttons on the remote until the motor moves in the down direction, then release.

Stop the motor where the Lower Limit should be set. Adjust by pressing the **UP** or **DOWN** buttons on the remote.



SET THE UPPER LIMIT

Press and hold the **MY (stop)** and **UP** button on the remote to move the motor to the desired Upper Limit position, then release.

The motor will stop at the original upper point. Adjust if necessary.



CONFIRM THE LIMIT SETTINGS

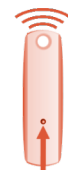
Press and hold the **MY (stop)** button until the motor jogs to confirm the setting.



SAVE THE LIMIT SETTINGS

Press and hold the **PROGRAM** button on the back of the remote until the motor jogs. It will now operate in a maintained fashion.

Double check limits as a precaution.



Programming Button

RTS Motors

Adjusting the Preset Limit Settings



If you requested pre-set settings for your unit and need to adjust them, follow the steps below.

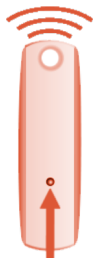
During the following steps the motor will operate in a maintained fashion, therefore, you only need to press the **UP** or **DOWN** buttons on the remote momentarily to move the motor, and the **MY (Stop)** button must be pressed in order to stop it at its desired limit.

ADJUST THE **UPPER** LIMIT

1. Move the motor to its preset **UPPER** limit position and let it stop
2. Press the **UP** and **DOWN** buttons simultaneously on the remote until the motor jogs, then release   
3. Adjust to a **NEW UPPER** limit position
4. Press the **MY/STOP** button until the motor jogs, then release.   
5. Check it

ADJUST THE **LOWER** LIMIT

1. Move the motor to its preset **LOWER** limit position and let it stop
2. Press the **UP** and **DOWN** buttons simultaneously on the remote until the motor jogs, then release   
3. Adjust to a new **LOWER** limit position
4. Press the **MY/STOP** button until the motor jogs, then release.   
5. Check it



Programming Button

TO ADD A REMOTE/CHANNEL OR SUN AND WIND SENSOR:

First press the programming button on the back of the already programmed remote until the motor jogs. Then press the programming button on the new remote or sun/wind sensor that you would like to add, until the motor jogs.

TO RESET THE MOTOR:

You will need to disconnect power (120vac) for 2 seconds, reconnect for 8 seconds, disconnect or another 2 seconds and reconnect. The motor should start to move and then stop on its own (if this does not happen, continue to perform the disconnects until it does). Once the motor stops moving on its own, press and hold the programming button on the back of the remote and count to ten without letting go until the motor jogs twice.

For Limit Setting example watch: <https://youtu.be/fmyRXkBj8MA>

Contact Sensing Motors

Adjusting the Preset Limit Settings



When you receive your Habitat Plus Screen with an RTS Contact Sensing motor, it will be in user mode. Follow the steps below to ensure that the proper limits are set. Adjust each screen individually before connecting and operating as a group.

ADJUST THE **UPPER** LIMIT

1. Move the motor to its preset **UPPER** limit position and let it stop
2. Press the **UP** and **DOWN** buttons simultaneously on the remote until the motor jogs, then release  
3. Adjust to a **NEW UPPER** limit position
4. Press the **MY/STOP** button until the motor jogs, then release.  
5. Check it

ADJUST THE **LOWER** LIMIT

1. Move the motor to its preset **LOWER** limit position and let it stop
2. Press the **UP** and **DOWN** buttons simultaneously on the remote until the motor jogs, then release  
3. Adjust to a new **LOWER** limit position 
4. Press the **MY/STOP** button until the motor jogs, then release.  
5. Check it

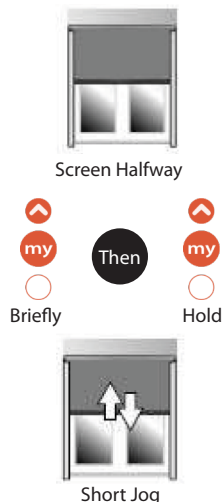
For Limit Setting example watch: <https://youtu.be/fmyRXkBj8MA>

Setting the contact sensitivity

Before making any adjustments to the motors sensitivity settings, first test the factory settings. While the screen is in operation, place your hand within its path around the centre point of the screen. The motor should immediately stop operating once the screen comes into contact with your hand. Test again with your hand near one of the guide cables. If sensitivity adjustments are required after performing these tests, follow the instructions below.

ENTER THE **SENSITIVITY SETTING MODE**

Move the screen to halfway position, press **MY** and **UP** briefly. Press **MY** and **UP** again until the screen jogs.



CHANGE THE **SENSITIVITY SETTING LEVEL**

If the actuator goes back to **USER MODE** (short jog) repeat Step 1.

To Deactivate:

Press **UP** briefly within 2 seconds and then press **UP** briefly again. The screen will jog slowly and is now deactivated.

If the jog is short you have reached the default setting.

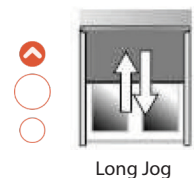
To deactivate, press **UP** again.

To Increase Sensitivity:

Press **DOWN** briefly within 2 seconds and then press **DOWN** briefly again. The screen will jog slowly and is now more sensitive.

If the jog is short you have reached the default setting.

To increase sensitivity press **DOWN** again.



Long Jog



Long Jog

CONFIRM THE NEW SETTING & EXIT THE SETTING MODE

Press **MY/STOP** until the screen jogs to confirm the new setting.

The registered level of sensitivity will be reached when entering Step 1 again.

For more information watch: <https://youtu.be/SyI550rLCMk>

General Notes for all Motor Types

Run the Habitat Plus screen up and down at least twice. Since the curtain is made of fabric, the curtain may take a few operations to fully settle into place. As such, the limits may need to be readjusted again slightly. Fabric can also have some stretch factor to it. It may be advisable to set your bottom limits slightly above the ground, sill, or floor to allow for this stretching. The limit may need to be adjusted at a later date if the curtain stretches to a point where the bottom bar is resting on the bottom.

Common Problems and Solutions during Limit Setting

Problem: The motor stops and will not move under any circumstances.

Explanation: The motor has overheated. The internal thermal protection switch has cut off power and will restore it automatically in 10 to 45 minutes, depending on the surrounding temperature. Motors are designed to run for short intervals only. During limit switch adjustments they tend to be operated almost continuously and can overheat. The motor is not harmed by being overheated. While waiting for the reset make sure that power to the motor has been shut off, or it may reactivate unexpectedly.

Problem: The limit switch stops the motor at a markedly different position (more than 1" or 25mm difference) every time it is checked. Trying to adjust it seems not to help. Sometimes it appears to be in order but a few days later the customer reports that it has moved again.

Explanation: The limit switch was slightly damaged during initial adjustment most commonly due to incorrect wiring. This problem will get worse with time. Eventually the limit will be lost altogether. The motor needs to be replaced. Contact the factory.

Problem: The Habitat Screen™ comes to a stop at the upper limit. Soon afterwards the click that the unit normally makes when it shuts off is heard, once or several times.

Explanation: A faulty brake in the motor lets the Habitat Screen™ slide down slightly, almost unnoticeably. The limit switch eventually gets released and supplies the motor with power, provided the tester cable or switching mechanism has remained switched in the "up" direction. The motor runs up momentarily until the limit switch cuts off power again. Then the cycle repeats. Contact the factory and request a new motor.

Problem: The motor makes a grinding sound and/or it chatters when it reaches either of its limits.

Explanation: This is the case when the installation includes more than one motor connected to one switching mechanism and where the motors have been wired in parallel. Usually motors connected to one switch will experience capacitor feedback, unless the motors were specially designed for this type of hook-up and the hook-up is shown in the wiring diagram. Cut all power immediately. Hook up only one motor to one switching mechanism. Try again with the correct hook-up and verify that motors run properly now.

Note that it is quite probable that the limit switches and/or capacitors in the motors were damaged due to the initial faulty hook-up. Notify the factory of the incident and discuss the problem. In any case it is likely that these motors will fail in the future either by not running at all or losing one or both of their limit switches. Without limits, the customer may experience catastrophic destruction of the Habitat Screen™ units as the motors turn indefinitely. It is highly advisable to exchange the motors now in order to avoid very costly repairs later.



Recommended Fastener Schedule

Screw and Anchor Schedule for Habitat Plus Systems

Use the following recommended fastener schedule as a guide to installations on various substrates. These are the minimum requirements to meet Talius installation guidelines for warranty coverage.

ATTACHMENT OF:	SUBSTRATE MATERIAL	WIND & HEAVY-DUTY Applications Curtain Weight greater than 50 lbs. Wind Speed greater than 60 Mph	LIGHT-DUTY Applications Curtain Weight less than 50 lbs. Wind Speed less than 60 Mph	MINIMUM EMBEDMENT Beyond the finishing material in the structural elements	MAXIMUM ON-CENTRE SPACING FOR BOX
Housing	Pressure Treated Wood	3/8" stainless-steel Lag screw	1/4" stainless-steel Lag screw	1 1/2"	10 - 12" light-duty or heavy-duty applications
	Concrete, CMU Block, Brick	3/8" - 410 stainless-steel Tapcon or Wedge anchor	1/4" - 410 stainless-steel Tapcon or Wedge anchor	2"	10 - 12" light-duty 7 - 8" heavy-duty applications
	Galvanized Steel of 1/8" minimum thickness	3/8" - 410 stainless-steel Tapcon or 18-8 stainless-steel self-drilling/tapping SMS	1/4" - 410 Stainless-steel Tapcon or 18-8 stainless-steel self-drilling/tapping SMS	1/8" wall Thickness	12" - 14" light-duty or heavy-duty applications
Bottom Cable Brackets	Pressure Treated Wood	3/8" stainless-steel Lag screw	1/4" stainless-steel Lag screw	1 1/2"	N/A
	Concrete, CMU Block, Brick	3/8" 410 stainless-steel Tapcon	1/4" 410 stainless-steel Tapcon	2"	N/A
	Galvanized Steel of 1/8" minimum thickness	3/8" 410 or 18-8 stainless-steel self-drilling/tapping SMS	1/4" 410 or 18-8 stainless-steel self-drilling/tapping SMS	1/8" wall thickness	N/A

- For edge distance, end distance, and minimum on-centre spacing, see manufacturer data



Talius Salmon Arm

Manufacture, fabrication and R&D Centre

5501 46Ave SE, Salmon Arm BC V1E 1X2

Talius Vancouver

Our administration office in Vancouver

6060 Silver Dr, Burnaby BC V5H 0H5