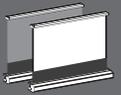




# MOTORIZED SCREEN SERIES

## USER MANUAL



06



10



18

### EN.

Please read this instruction manual carefully before connecting, operating or adjusting this machine.  
Please keep this manual in a safe place for future reference.  
Actual product may vary from image shown. Product specifications subject to change without notice.

## Language Version



DE [Deutsch]

EN [English]

ES [Spanyol]

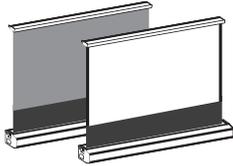
FR [Français]

IT [Italiano]

ZH [中文]

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## Motorized Screens

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**Controls Using 3rd Party.....23**  
**Troubleshooting.....25**

\*T-Type: standard tubular motor limit setting(tool required)  
\*E-Type: electronic tubular motor limit setting

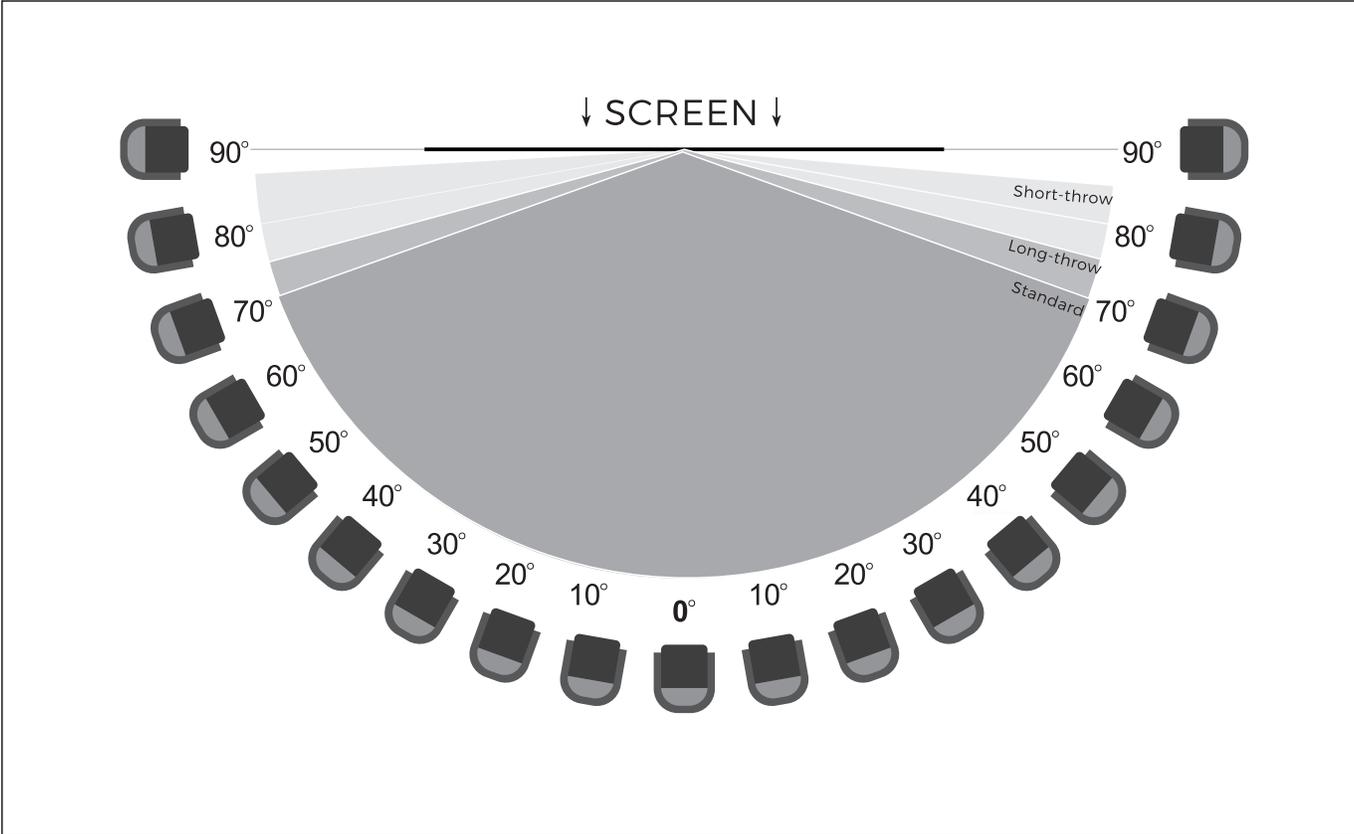
# SAFETY PRECAUTIONS [PLEASE OBEY]

To avoid personal injury or property damage, please observe the following. Failure to comply with the following steps will result in a void of the manufacturer's warranty. The dealer/installer will be responsible for all costs associated with failure to comply, including replacement parts, and/or additional on-site visits needed for repair work.

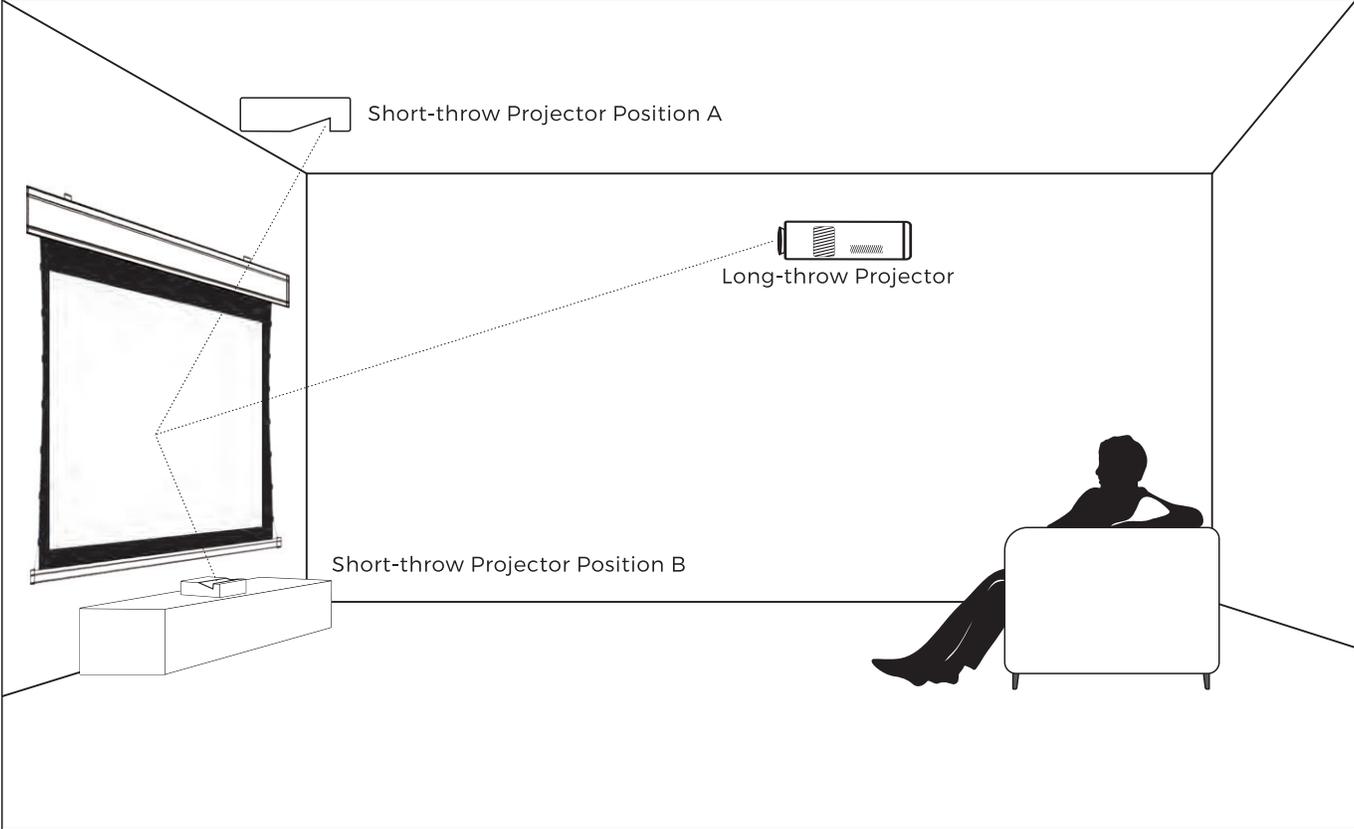
<b>WARNING</b>	
	<ul style="list-style-type: none"> <li>.Be careful not to approach toddlers, and place the remote control away from children. (So as not to cause injury due to mishandling.)</li> <li>.Do not put fingers or other objects into the support arm during lifting. (So as not to cause injury)</li> <li>.Be careful of the electric screen in motion. When the electric screen is running, no one is allowed to stand under it. (So as not to cause injury.)</li> </ul>
	<ul style="list-style-type: none"> <li><input type="checkbox"/> This product must be installed on a solid ceiling, and make sure that the metal parts and installation screws do not touch any metal products in the ceiling, such as metal slats, cable slats, and metal plates. (so as not to cause electric shock)</li> <li><input type="checkbox"/> If the power supply cord is damaged, it must be replaced by the manufacturer's maintenance department or a professional. (Do not use ordinary cables instead, so as not to cause malfunction, fire, or electric shock)</li> <li><input type="checkbox"/> If any abnormal phenomenon occurs, please stop using this product and disconnect the power supply.</li> <li><input type="checkbox"/> Please ensure the screen is connected to a grounded socket to avoid the possibility of electric shock.</li> <li><input type="checkbox"/> Pay attention during installation to prevent the installer from falling and the product from dropping. (so as not to cause personal injury or machine damage)</li> </ul>

<b>ATTENTION</b>	
	<ul style="list-style-type: none"> <li><input type="checkbox"/> Do not run the screen continuously for more than 4 minutes (the overheating protection function will stop the motor in case of overheating. After the motor cools down in about 20 minutes, you can re-operate the screen)</li> <li><input type="checkbox"/> The matte white surface can be washed with a soft towel dampened with water or weak alkaline detergent. (Do not wash with alcohol or ether liquid)</li> <li><input type="checkbox"/> Do not scratch or fold the screen.</li> <li><input type="checkbox"/> Do not lift the bottom bar with your hands or press down on the hatch during the process (to avoid causing the surface to be damaged)</li> <li><input type="checkbox"/> Keep away from high temperature/ignition/steam.</li> <li><input type="checkbox"/> Do not put sundries into the machine. After use, please check and confirm the cleanliness of the screen/surface before retracting the fabric. (so as not to cause damage to the screen)</li> </ul>

# GUIDANCE



Short-throw screen user, please pay attention to the direction of the screen. The screen will change according to the installation position of the projector. The recommended viewing distance is more than 2m



# SCREEN CARE



- ❑ Avoid sharp objects from directly touching the screen surface.
- ❑ Avoid scratching the screen surface, which will cause irreparable damage.
- ❑ Do not touch the screen surface directly with your hand, skin grease will cause damage to the screen coating.
- ❑ If involved with acetone, benzene, alcohol, etc., please consult your dealer first



## Short-throw Fabric:

For general dust, use a soft brush to clean the screen surface.

Use a soft cloth to dip with mild soapy liquid or neutral detergent.

Rough objects or clothes may damage the screen surface.

The screen surface has optical textures, please wipe the horizontal direction when cleaning the fabric; do not wipe it vertical direction or revolve.

Wet cleaning: with a soft towel moistened with water or diluted detergent (Do not use alcohol). Compressed gas duster is recommended.



## Acoustically Transparent Fabric:

Compressed gas duster is recommended.

Dust off the screen with a dry rag. Do not use wet cloth, detergent, etc. to wipe the dust on the curtain surface.



## Long-throw Fabric:

The surface can be cleaned as follows:

1. Using a white clean cloth(100% cotton preferred) and dampened with clear water, gently wipe the area in one direction. Do not use a circulate motion. Using a fry 100% cotton cloth, wipe dry after each cleaning and before folding and storing.
2. To clean a stubborn stain or sticky surface, use denatured alcohol(methanol or methyl alcohol) following the same procedure as for water.

OR.

1. Lint-free white cloths, Mild Soap (hand soap is suitable), and water.
2. Take the Lint-Free cloth and submerge it in warm water for cleaning light dust and dirt. For stubborn stains or a sticky surface, a solution of mild dishwashing liquid diluted with warm water should be used.
3. Completely ring out the cloth so it is lightly dampened, and not drenched.
4. Using the damp cloth, lightly wipe in an up-and-down motion starting at the left of the screen and moving to the right of the screen. DO NOT WIPE IN CIRCULAR MOTION.
5. Once you have completed wiping the entire screen with a dampened Lint-Free cloth, use the dry Lint-Free cloth to wipe off any excess water from the screen.

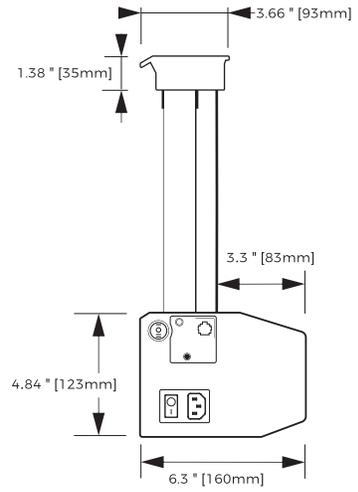
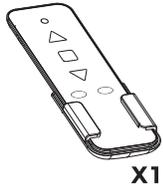


## Standard Fabric:

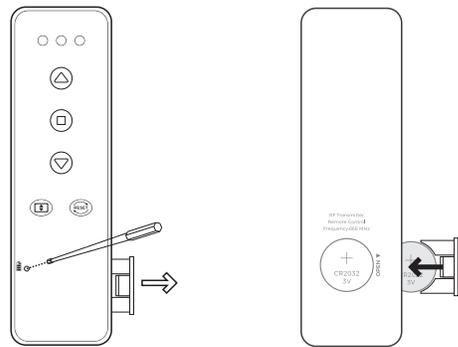
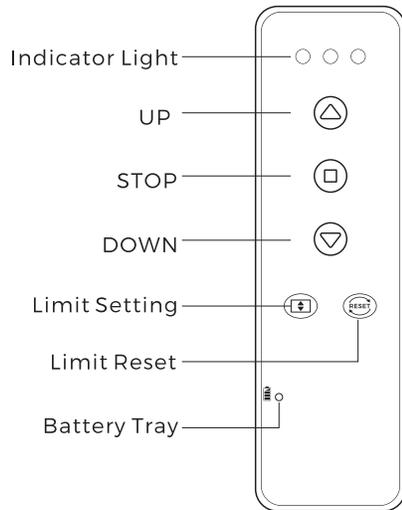
Using a white clean cloth (100% cotton preferred) that is dampened with clear water, gently wipe the area in one direction. Do not use a circular motion. Using a dry 100% cotton cloth, wipe dry after each cleaning session. To clean a stubborn stain or a sticky surface, use denatured alcohol (methanol or methyl alcohol) following the same procedure as for water.

# Self-Rising Screen

## PARTS

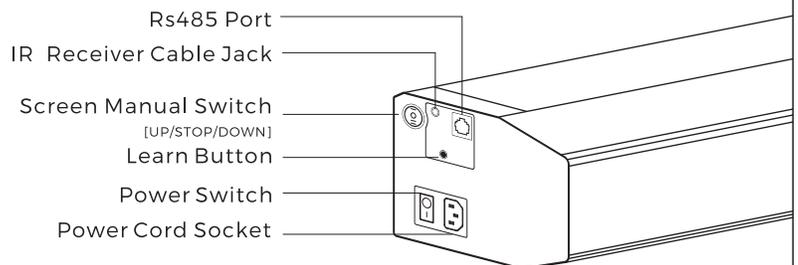
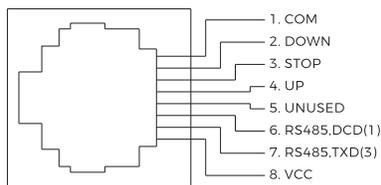


## ADJUSTMENT AND USAGE



**Low battery notification: A red indicator light shows that the battery (CR2032) needs to be replaced.**

1. Use a tool to press down on the small hole and battery tray will pop out;
2. Pay attention to the forward and reverse directions.



# SCREEN HEIGHT ADJUSTMENT

(E-Type Motor Limit Setting)



NOTE: When you operate the projection screen runs down/up 4 times(uninterrupted), the CHILD LOCK function is activated. the screen cannot be operated temporarily for about 30mins. This function is set to prevent accidents caused by humans or children playing, and cannot turn off.

- ATTENTION: The screen height has been pre-set from the factory (has reached the limit), the user can only lower the screen height!
- **Do Not Set the Limit Over Than Default!**



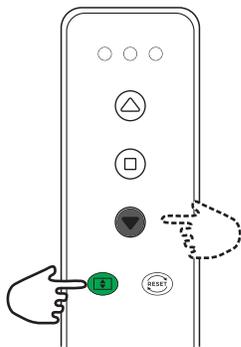
## WARNING!



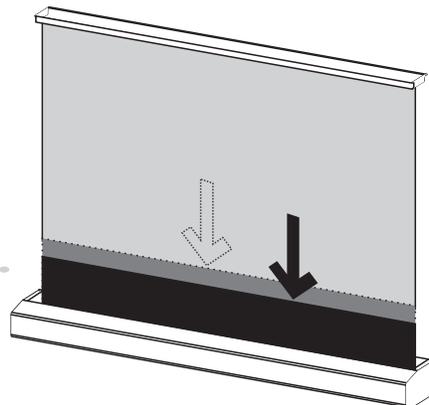
Default Limit switches are located inside the housing and should only be adjusted by Authorized Personnel Only! We only recommend that professionals undertake the default limit adjustment (has been pre-set before leaving the factory). The warranty does not cover the after-sales problems caused by this. If adjustment is necessary, please contact the dealer!



\*screen surface will adjust 5mm per click.



Beep.....3-beeps

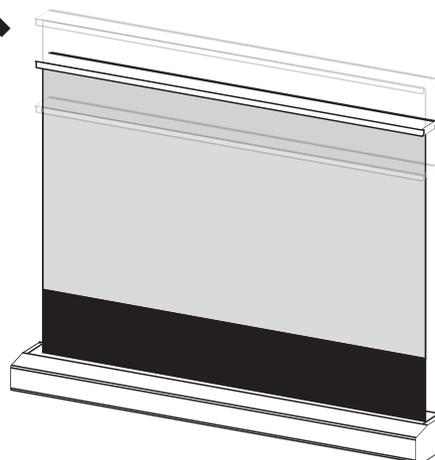
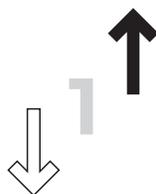


1

Press and hold the green button on the remote control until the screen emits 1 long and 3 short Beeps (sound)

2

Click the DOWN button on the remote control to adjust the height of the projected screen to a suitable position.

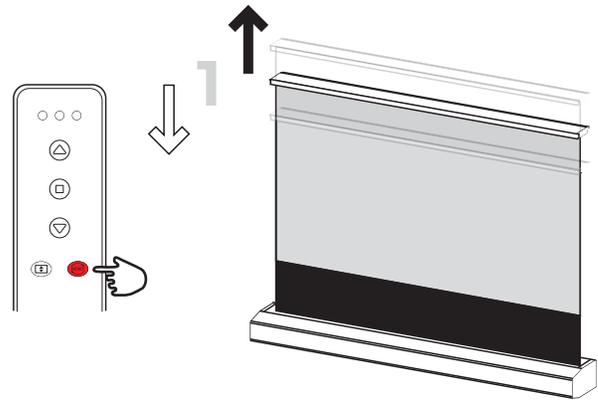


3

Press and hold the green button on the remote control for 5 seconds until the screen appears ↓ ↑ , and then the screen height adjustment is completed.

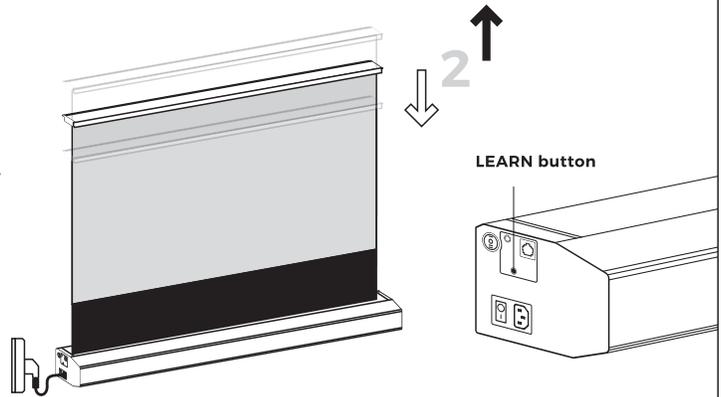
## Reset | Restore the factory setting position

Press and hold the red RESET button on the remote control until the screen surface moves ↑ ↓, process completed.



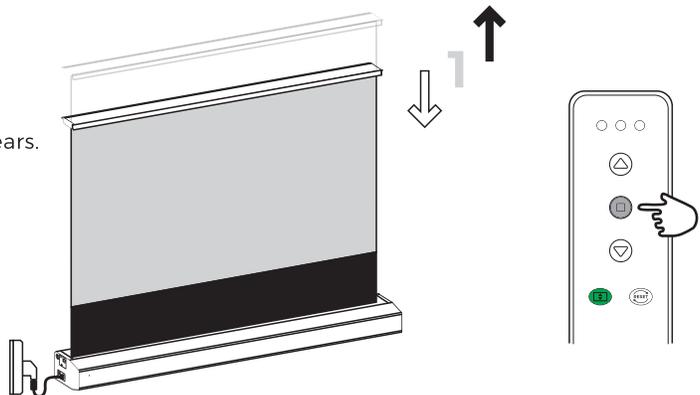
## Remote Unpairing

Press and hold the LEARN button on the end cap, and the screen will display two prompt actions, up and down, process completed.



## Remote Pairing

Press and hold the LEARN button on the screen panel for about 5 seconds, and the ↑ ↓ prompt action appears. Press the STOP button on the remote control for about 3 seconds until the ↑ ↓ prompt action appears on the screen again, process completed.

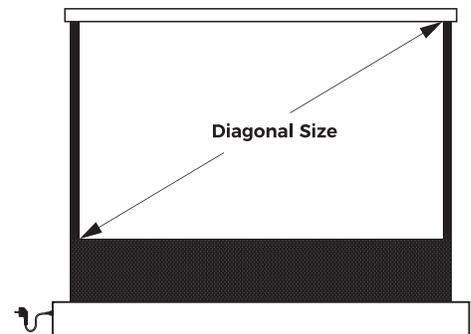
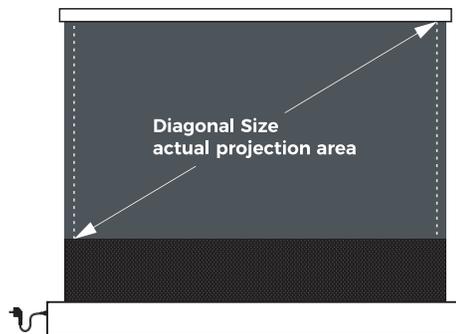
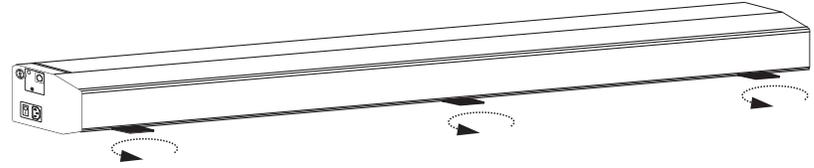
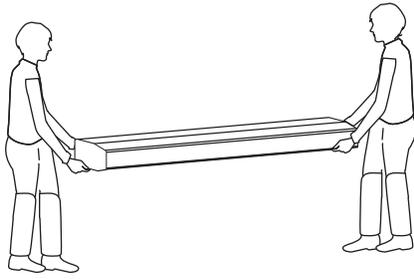


**The remote control has already been completed the pairing and is ready to use, relearning only if necessary.**

\*Note: When the red light on the remote control window lights up, the battery voltage is insufficient, please replace the battery! Otherwise, there is a risk that the remote control will fail to code (learn)

## Beep” Sound Codes- screen system signals

1 short “Beep”:	When the screen starts normally reaches the default position.
2 short “Beep”:	When the child lock is activated. The screen enters protection mode. The remote control buttons stop working.
3 short “Beep”:	When the screen height is restored to the factory height position. (The prompt sound is emitted after pressing the remote control's RESET(red) button).
4 short “Beep”:	When the screen height debugging reaches the high and low limit positions.
1 long “Beep” and 3 short “Beeps”:	Enter the screen height debugging prompt sound. (The beep sounds after pressing the green button on the remote control).



## Troubleshooting

Note: When the screen runs up/down 4 times in a row, the screen will automatically retract and turn on the child lock function protection mode (30 minutes)! all buttons on the remote control are disabled during this time. Please wait 30 minutes before resuming operations.

### What if the remote control not operating properly or not responding?

Press any button on the remote control (indicator light - blue), but the screen does not respond. Please press the UP + DOWN buttons on the remote control at the same time for about 2 seconds to restore.

If the fault is not eliminated, please replace the button battery (CR2032) and repeat the above steps.

\*Note: If the fault is not eliminated after using the above two methods, please contact the dealer to replace the remote control with a new one. After replacing the remote control, the remote control needs to be coded (learned) again.

### What if accidentally touch the green button?

the screen image will rise to the highest point, thereby changing the normal viewing screen height: Follow the screen height debugging method, adjust the screen height to the normal height, and then press the green button for 3 seconds to restore. Normal viewing screen height.

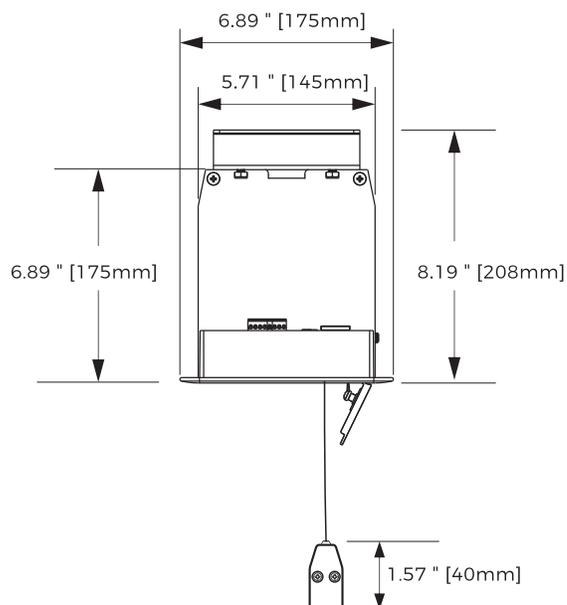
### What if the remote control battery needs to be replaced?

Press any button on the remote control (indicator light - red), and replace it with a new battery (Cr2032).

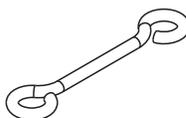
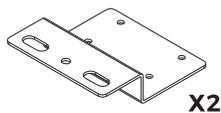
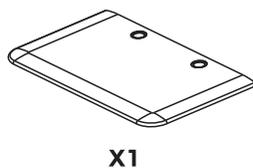
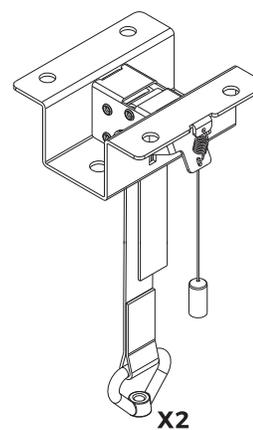
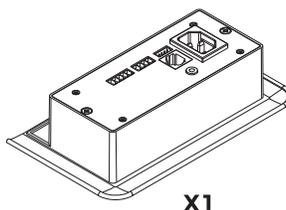
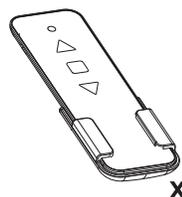
# Ceiling-Recessed Screen



- This product must be installed on a sufficiently strong ceiling. If the installation strength cannot be ensured, reinforcement measures must be taken.
- The ceiling or wall used to support this product must be able to bear 5 times the weight of the product. (to prevent the body from falling and causing injury)



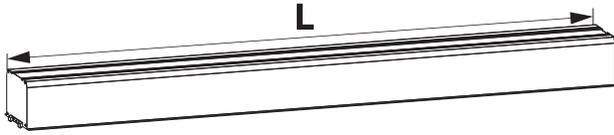
## PARTS



# INSTALLATION

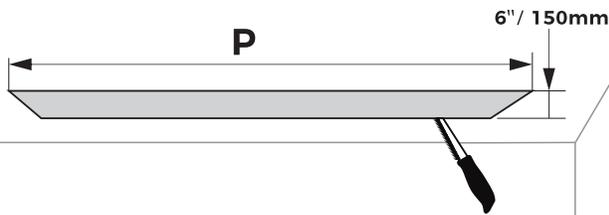
## 1 Preparation

Make an opening in your ceiling of the following size: (L + 7").



$$P = L + 7''$$

Groove Length = Screen Housing Length + 7"



## 2 Assemble the ceiling bracket

- (1) Cut the threaded rod to a length = H2-100mm
- (2) Connect the screw to the bracket and tighten the screw



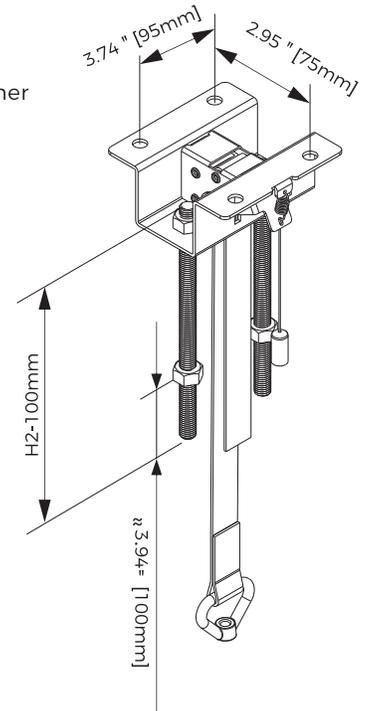
M12 Screw Nut  
**X12**



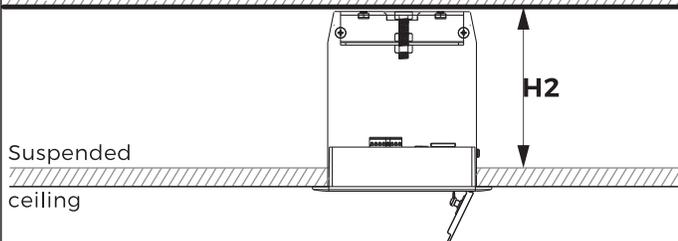
M12 Spring Washer  
**X8**



M12 Flat Washer  
**X8**

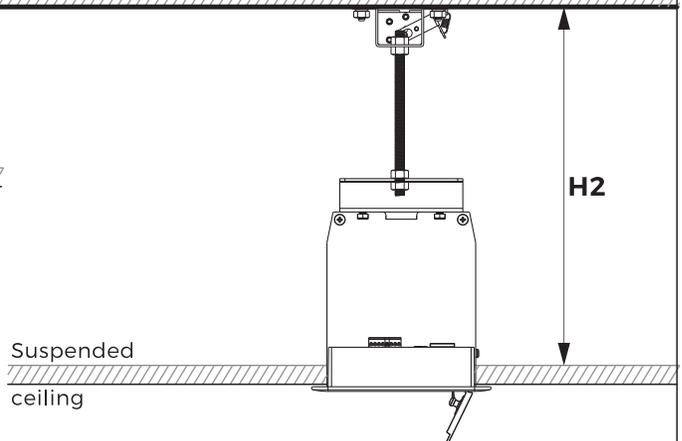


Top Ceiling



**A**

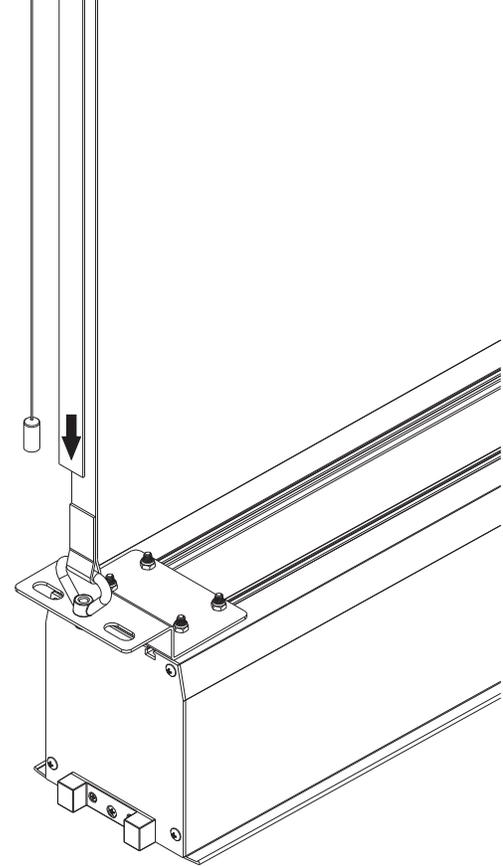
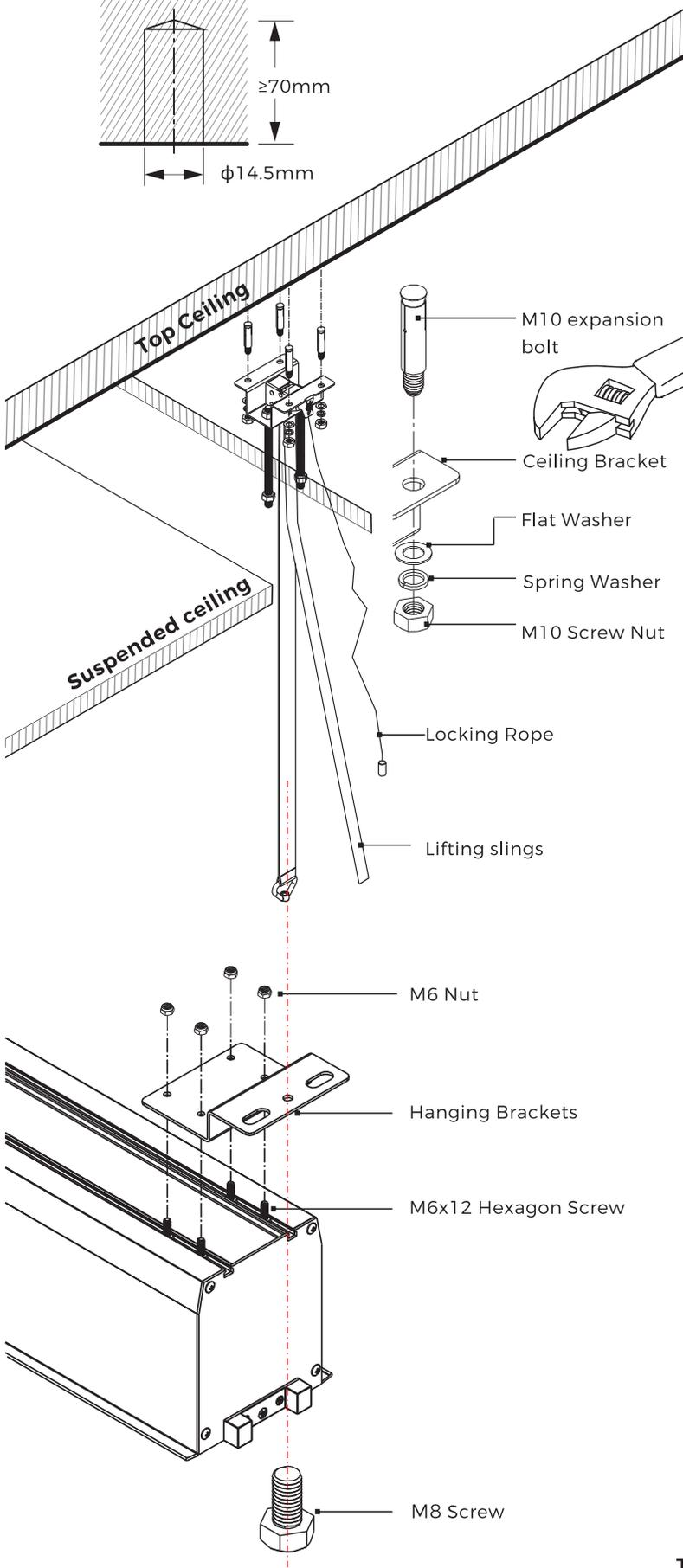
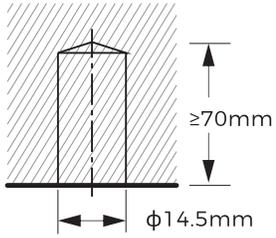
Minimum Required Highness (without ceiling bracket)  
(H2)  $\geq 7''$  [ $\geq 180\text{mm}$ ]



**B**

Required Highness  
(H2)  $\geq 11''$  [ $\geq 280\text{mm}$ ]

### 3 Assemble the hanging brackets



### 4 Use the lifting gear

Note: During the process, pull down the Locking Rope first and then start to pull up. Be careful not to let go of the Lifting Slings to prevent the screen from falling.

#### A. Lifting:

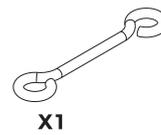
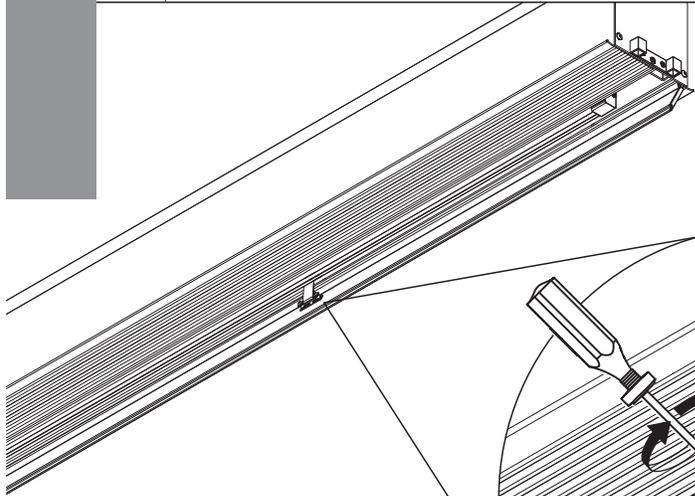
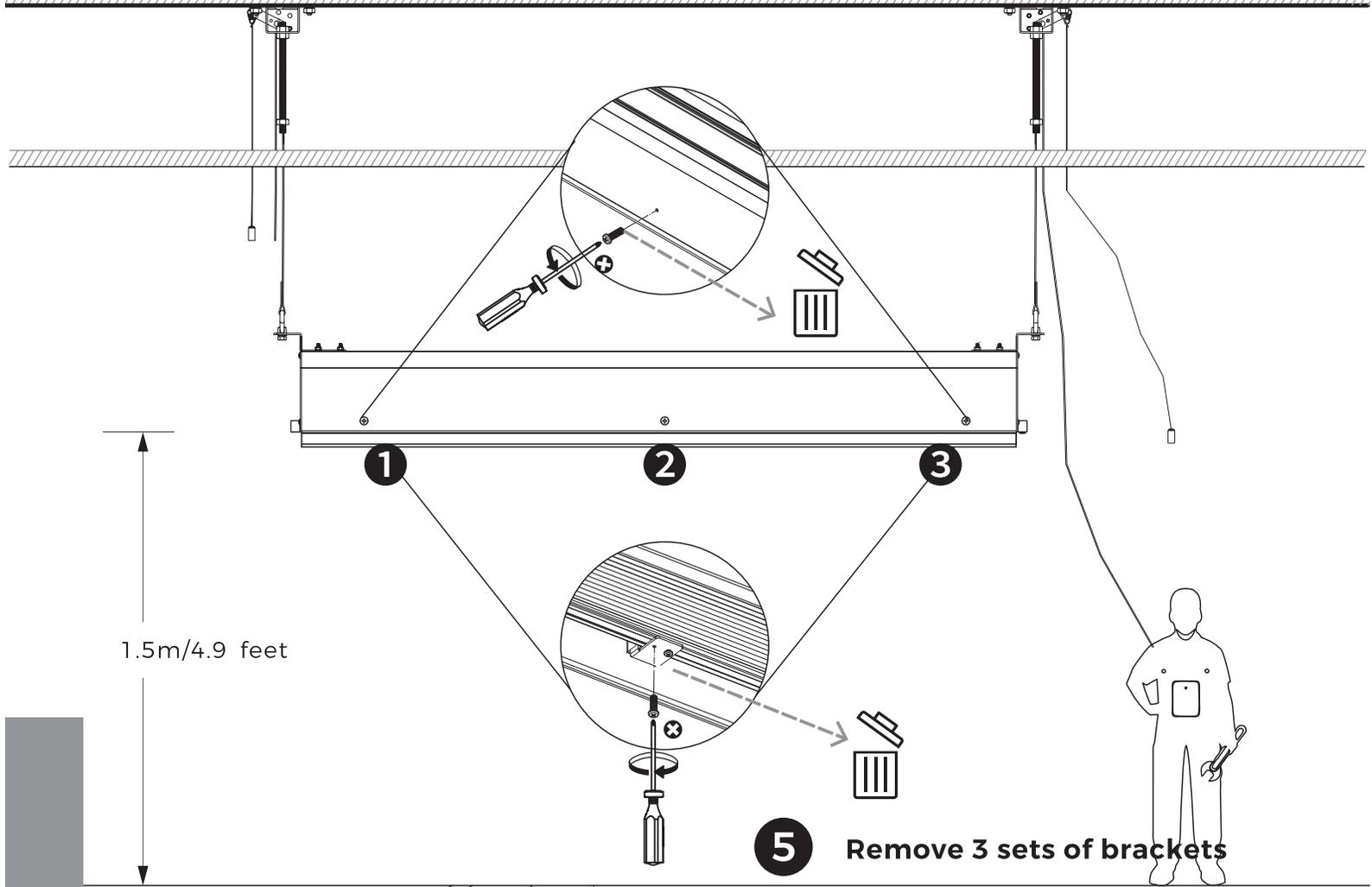
Pull the Lifting Slings forcefully, after reaching the predetermined position, let go slowly to prevent the Lifting Slings from slipping and causing the screen to fall.

\* Please ensure that both sides of the screen rise synchronously during the lifting process.

#### B. Lowering:

Grab the Lifting Slings and pull the Locking Rope carefully, then let the screen descend with gravity.

Top Ceiling

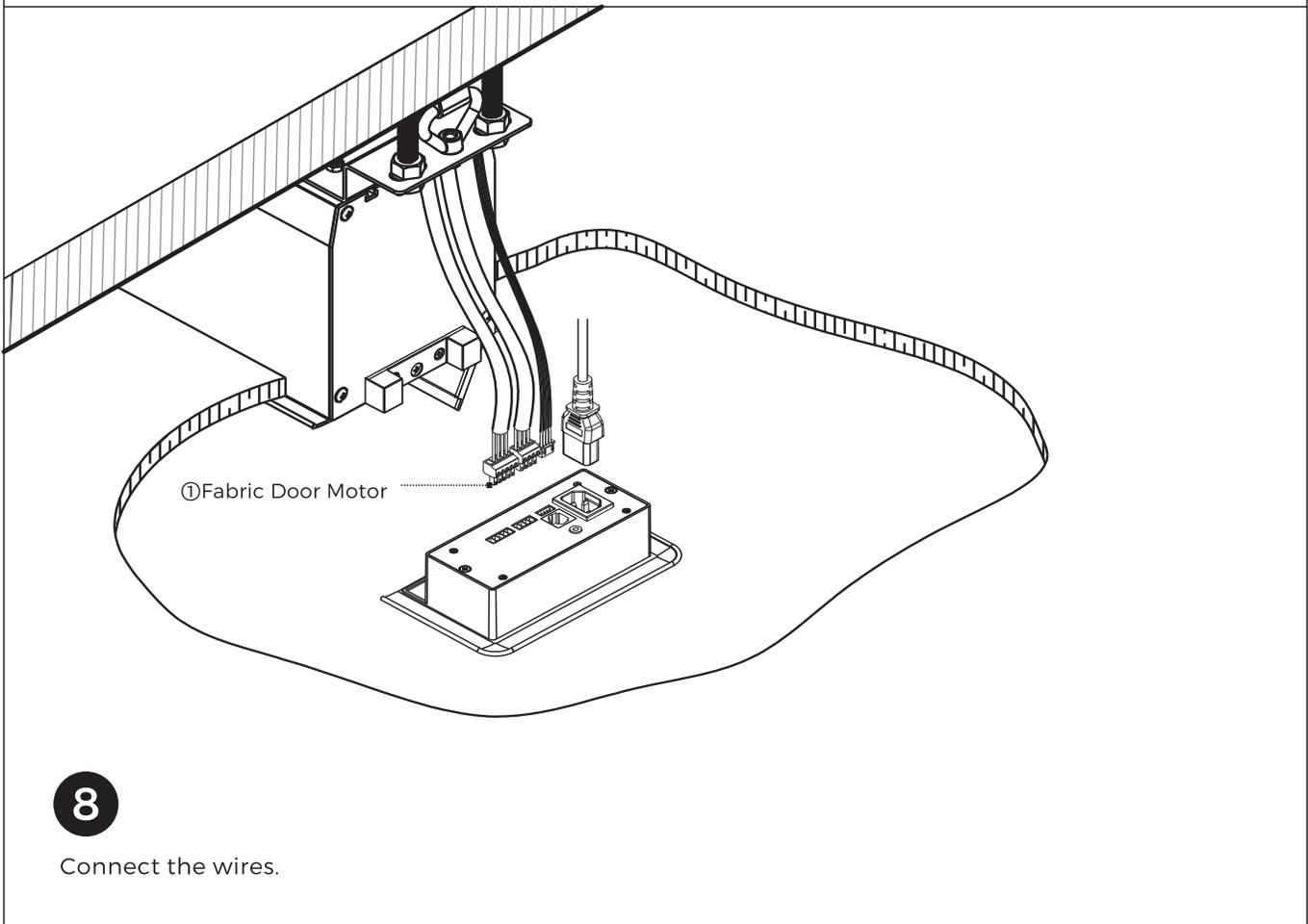
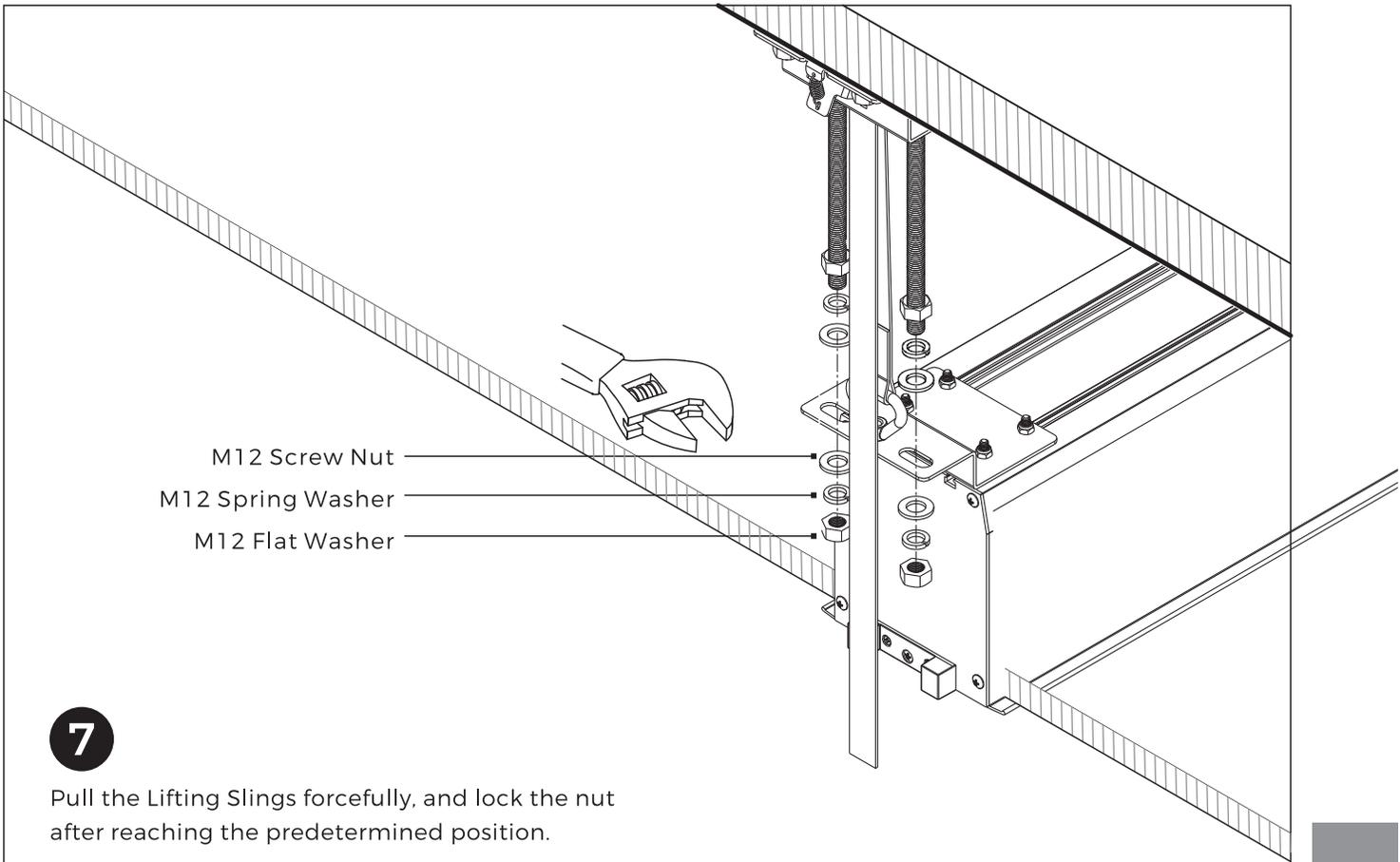


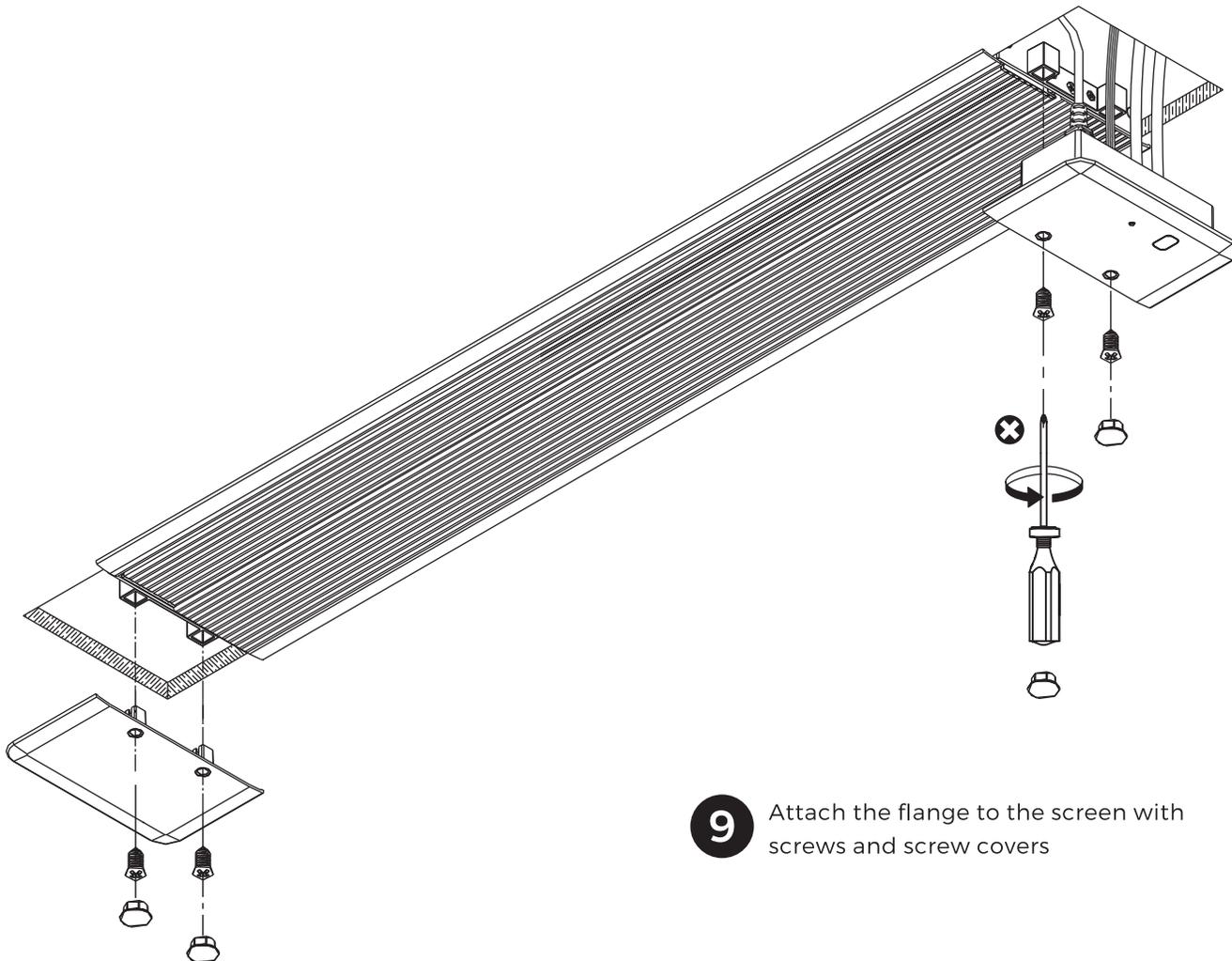
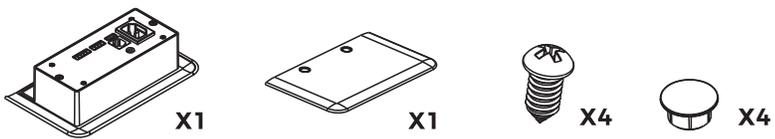
Locking Pin  
M4X10 Pan head screw  
Belt Drive  
Pin Rack

**6**

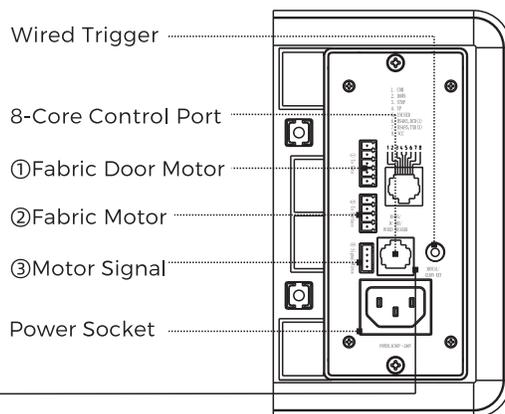
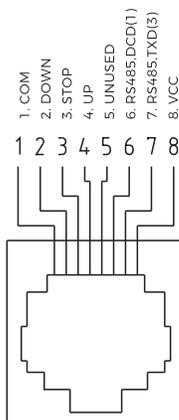
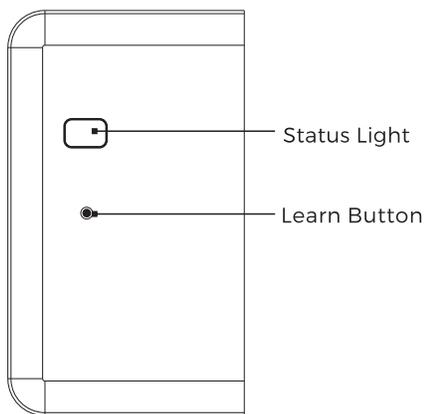
### Fix the cabin door

Insert the Locking Pin into the Belt Drive and screw(M4X10) into the Pin Rack.





**9** Attach the flange to the screen with screws and screw covers



## WARNING!



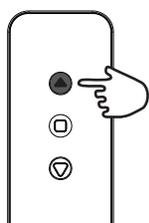
Default Limit switches are located inside the housing and should only be adjusted by **Authorized Personnel Only!** We only recommend that professionals undertake the default limit adjustment (has been pre-set before leaving the factory). The warranty does not cover the after-sales problems caused by this. If adjustment is necessary, please contact the dealer!



**NOTE:** When you operate the projection screen runs down/up 4 times(uninterrupted), the CHILD LOCK function is activated. the screen cannot be operated temporarily for about 30mins. This function is set to prevent accidents caused by humans or children playing, and cannot turn off!



· **Do Not Set the Limit Over Than Default!**

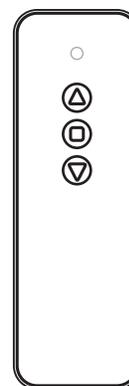


## Remote Pairing

Press and hold the Learn button for about 5 sec until the surface runs ↓/↑ once, release and press the UP button until the surface appears ↓/↑ once, process completed.

**The remote control has already been completed the pairing and is ready to use, relearning only if necessary.**

Charging Port  
(Micro-B)

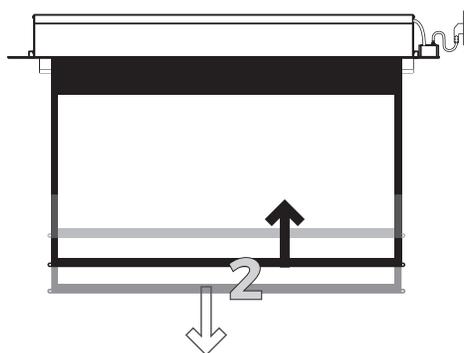
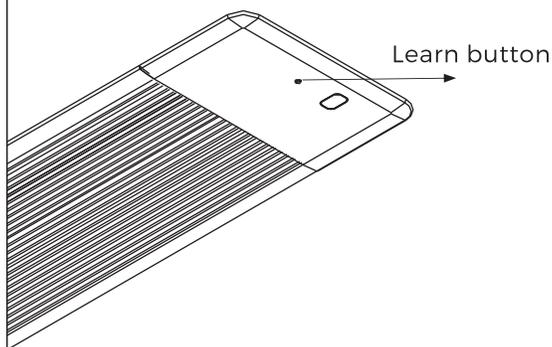


Up  
Stop  
Down

Please test (operate the remote control screen up and down) after adjustment, repeat the steps if needed, until the screen is in the ideal place.

## Unpairing Remote

Press and hold the "Learn" button until the screen surface runs ↑/↓ twice, release and click the "Learn" button once more afterward, process completed.

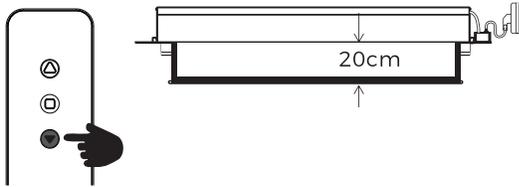




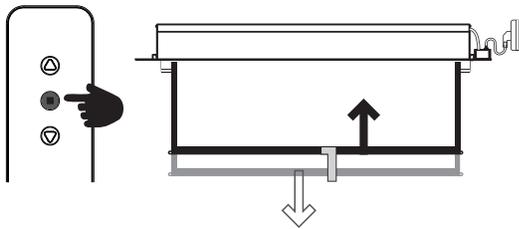
When you operate the projection screen runs down/up 4 times(uninterrupted), the CHILD LOCK function is activated. The screen cannot be operated temporarily for about 30mins. This function is set to prevent accidents caused by humans or children playing, and cannot turn off.

- NOTE: The UPPER LIMIT does not need to be adjusted as it is pre-set from the factory.  
We do not recommend to make adjustments(only if necessary)

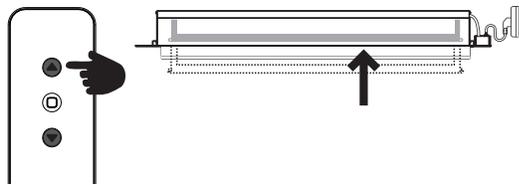
## UPPER LIMIT Position



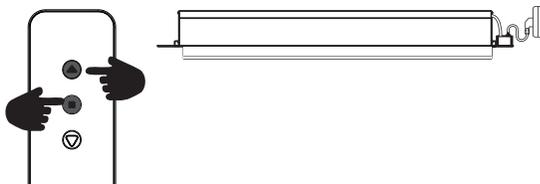
① Move the screen to half-way position



② Press STOP button until the screen surface runs  $\uparrow/\downarrow$  once, process stand by.

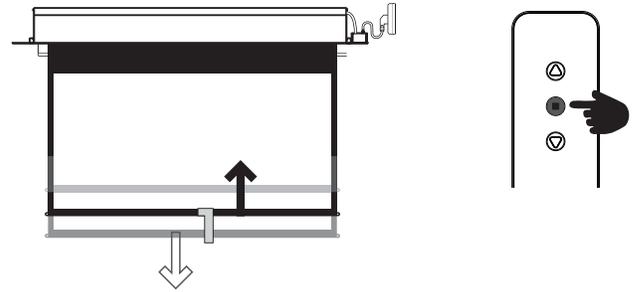


③ Use the UP / DOWN button to adjust the lower bar to the ideal position.

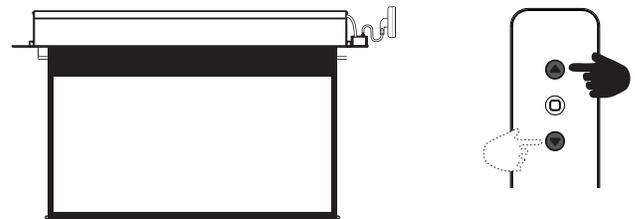


④ Press both UP + STOP simultaneously until surface runs  $\downarrow/\uparrow$  once, process completed.

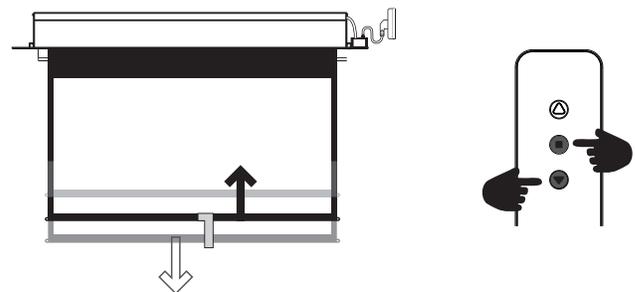
## LOWER LIMIT Position



① Press STOP button until the screen surface runs  $\uparrow/\downarrow$  once, process stand by.



② Use the UP / DOWN button to adjust the lower bar to the ideal position.



③ Press both DOWN + STOP simultaneously until surface runs  $\downarrow/\uparrow$  once, process completed.

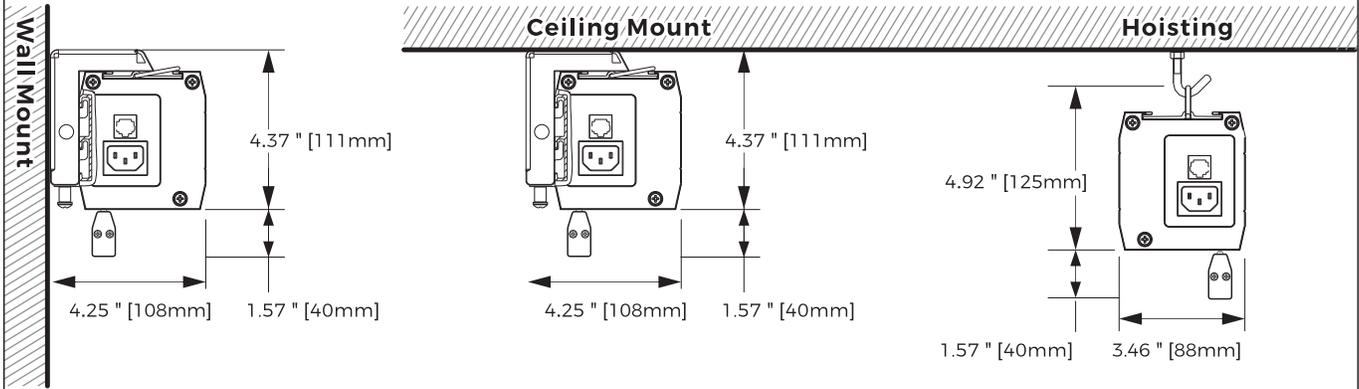


Disconnect the ① Fabric Door Motor before adjusting the UPPER/LOWER limit first and attach the wire after the setting

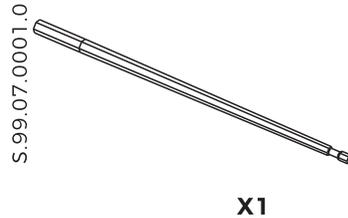
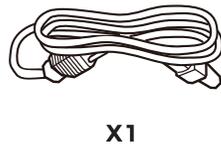
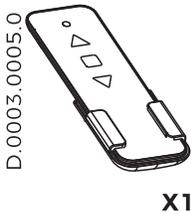
# Motorized Screen



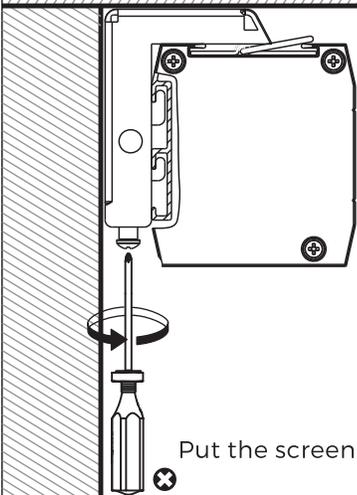
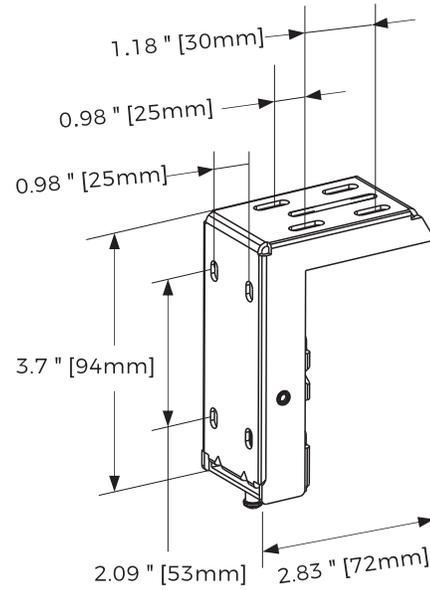
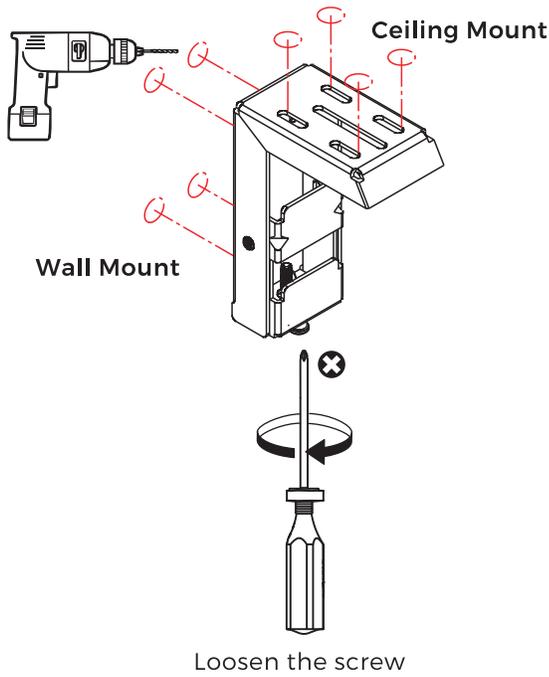
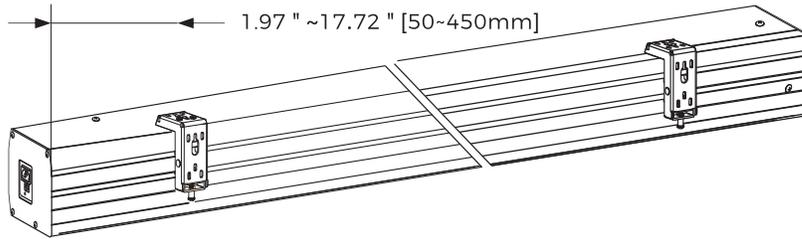
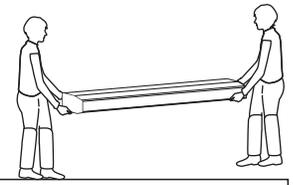
- This product must be installed on a sufficiently strong ceiling. If the installation strength cannot be ensured, reinforcement measures must be taken.
- The ceiling or wall used to support this product must be able to bear 5 times the weight of the product. (to prevent the body from falling and causing injury)



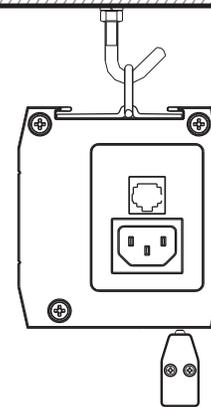
## PARTS



# INSTALLATION



Put the screen on the bracket and tighten the Screw.



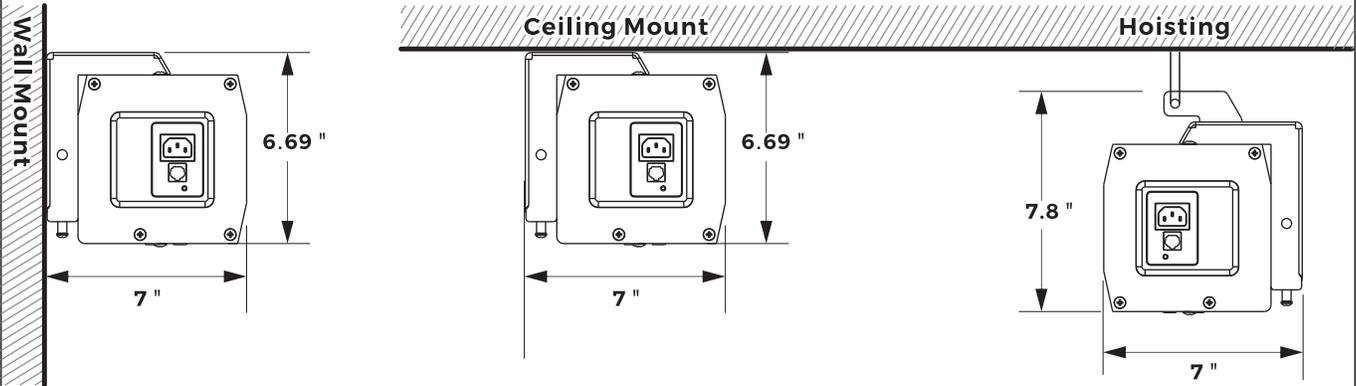
**!** NOTE: Please keep the screen casing and assembling plates in the horizontal direction and install them firmly. Remember to disassemble the fixed plate/tape on the bottom weight bar before operation!

# Motorized Screen L series

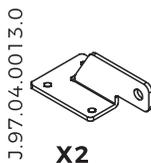
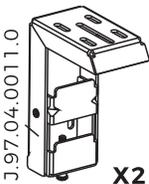
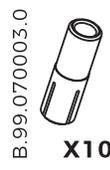
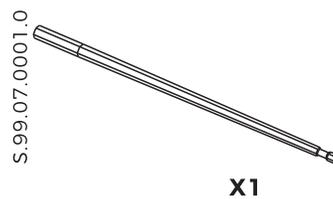
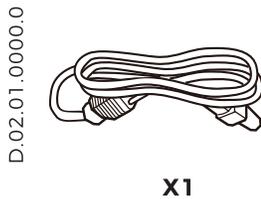
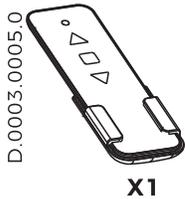


This product must be installed on a sufficiently strong ceiling. If the installation strength cannot be ensured, reinforcement measures must be taken.

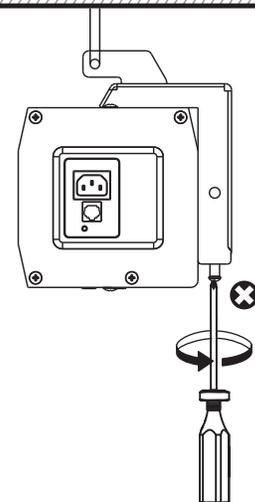
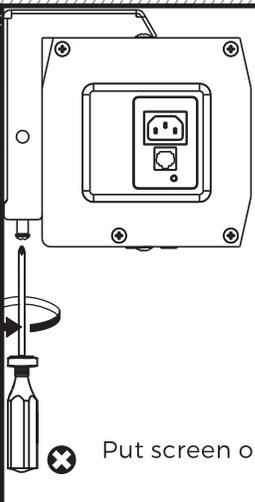
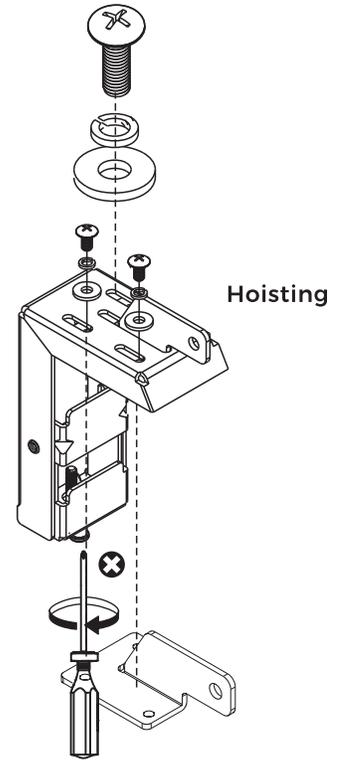
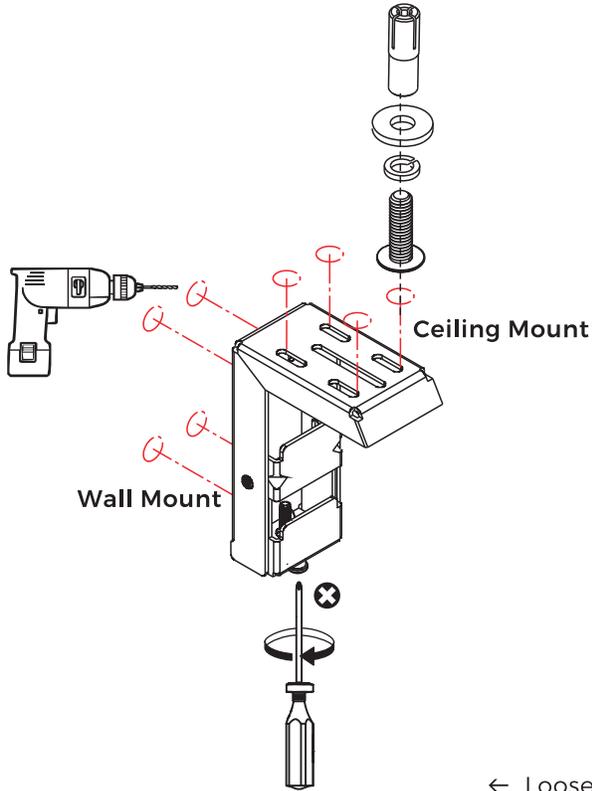
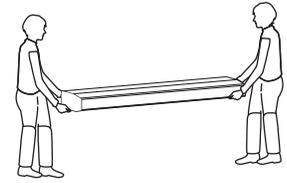
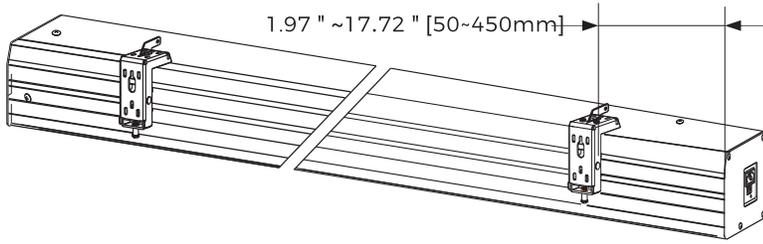
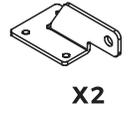
The ceiling or wall used to support this product must be able to bear 5 times the weight of the product. (to prevent the body from falling and causing injury)



## PARTS



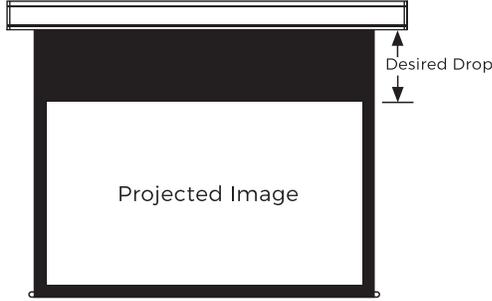
# INSTALLATION



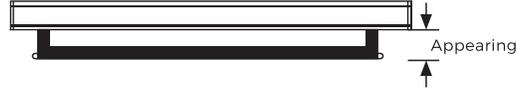
**NOTE:** Please keep the screen casing and assembling plates in the horizontal direction and install them firmly. Remember to disassemble the fixed plate/tape on the bottom weight bar before operation!

## Fabric Position

What is a Lower Limit? (extend height)



What is Upper Limit?(retract height)



**⚠ WARNING: Do Not Set the Limit Over Than Default!**

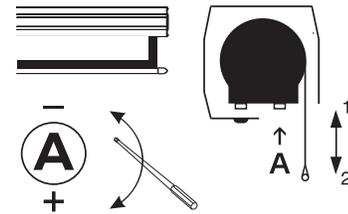
### A. UPPER LIMIT Position

When the fabric drawing back and the bottom weight bar are not in the right place, please insert the adjusting stick into the hole "A":

I. Decrease screen retract height: Counterclockwise rotates to adjust stick towards "1" direction

II. Increase screen retract height: Clockwise rotate adjusting stick towards "2" direction

### UPPER LIMIT



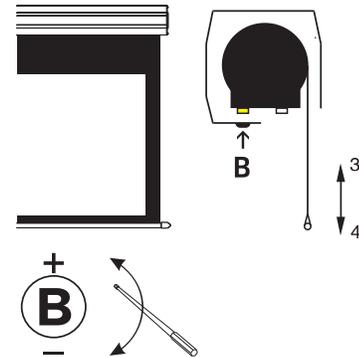
### B. LOWER LIMIT Position

When the fabric is completely opened up, while the projected Image is not in the right place, please insert the adjusting stick into hole "B":

I. Decrease the extended height: Clockwise rotate the adjusting stick towards the "3" direction

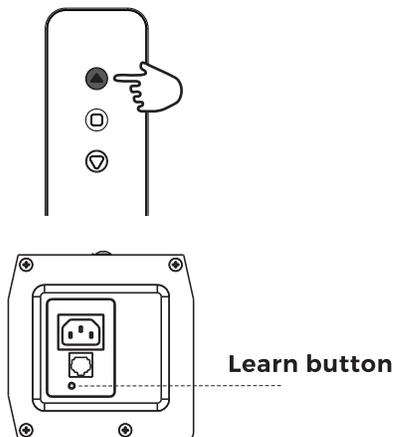
II. Increase the extended height: Counterclockwise rotate the adjusting stick towards the "4" direction

### LOWER LIMIT



Please test (operate the remote control screen up and down) after adjustment, repeat the steps if needed, until the screen is in the ideal place.

## ADJUSTMENT AND USAGE



### Remote Pairing

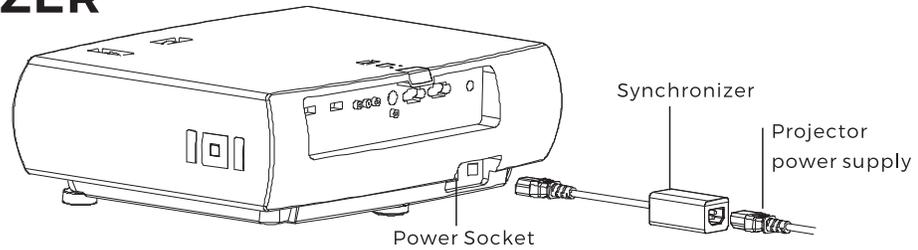
Press and hold the Learn button for about 5 sec until the surface runs ↓/↑ once, release and Press the ⏮ UP button until the surface appears ↓/↑ once, process completed.

**⚠ The remote control has already been completed the pairing and is ready to use, relearning only if necessary.**

### Unpairing Remote

Press and hold the "Learn" button until the screen surface runs ↑/↓ twice, release and click the "Learn" button once more afterward, process completed.

# SYNCHRONIZER



## Installation

Insert the end of the projector's power cord into the synchronizer, plug the outlet end of the synchronizer into the projector's power socket, and the synchronizer connection is completed.

## Memory (if you own 2 or more screens/projectors and wish to control them one-on-one)

When the projector is working normally, press and hold the synchronizer Learn key for about 5 seconds until the red LED light flashes, then let go.

## Pairing

Turn on the projector and wait for the projected image to appear. Then within 20 seconds after powering on the screen, press and hold the screen's LEARN key until the screen surface runs up and down once. Press and hold the "LEARN" key of the synchronizer for 3 seconds until the screen will run  $\uparrow/\downarrow$ , process complete.

\*Note:

- ① If the synchronizer comes along with the package, then the synchronizer has been paired with the screen, re-pairing only when necessary. \*Sync-trigger only applies to the 868Mhz series product.\*
- ② The synchronizer must be connected to the projector correctly. Do not connect the synchronizer to the projection screen power!!!

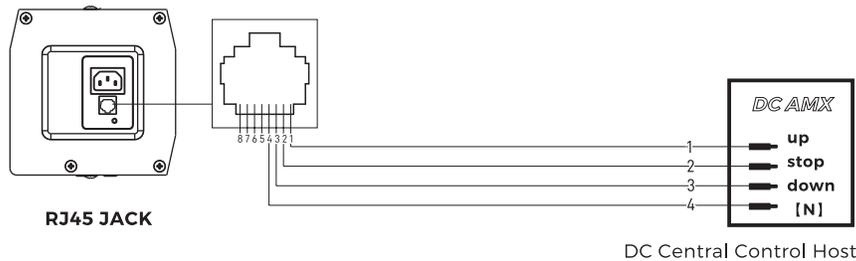


Professionals Only

Safety-certified cables should be used.

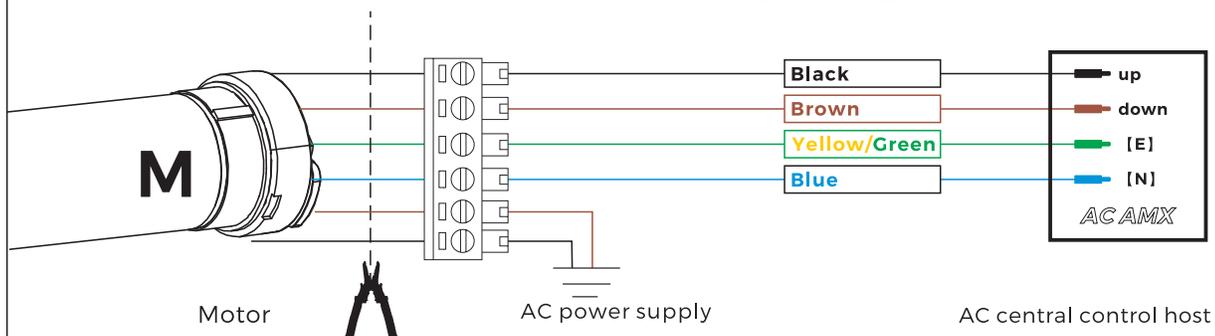
Please make sure to cut off the power during the operation

## DC Central Control Wiring Diagram



Only wiring to the motor wires. It is prohibited from connecting to the PCB circuit board under the AC control method, which may cause damage to the circuit board and cause safety accidents!

## AC central control wiring diagram



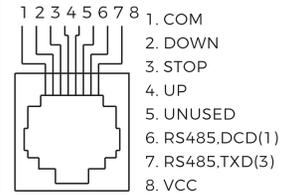
## Direct Current (DC) Control

[The RS485/232 communication protocol]

[Built-in remote control 485/232 control code]:

[485/232 port settings: 2400, 8 data bits, 1 stop bit, no check bit]

<b>UP</b> ▲	0xff,0xee,0xee,0xee,0xdd
<b>STOP</b> □	0xff,0xee,0xee,0xee,0xcc
<b>DOWN</b> ▼	0xff,0xee,0xee,0xee,0xee



Rs232 [Connect] 3 5

6&7 correspond to the 1 and 3 pins of the computer plug

Floor-rising series only

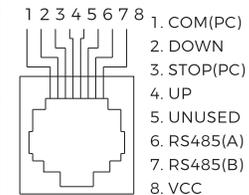
## Direct Current (DC) Control

The RS485 communication protocol

Built-in remote control 485 control code:

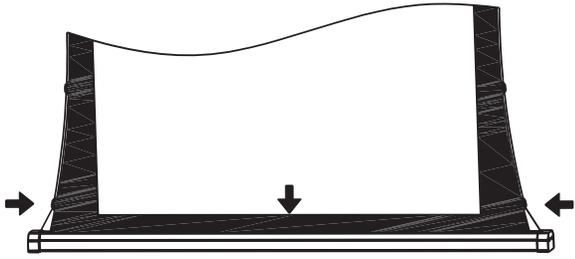
UART protocol: 8bit 9600bps | Number of bytes per frame: 8 bytes

<b>UP</b> ▲	6F 90 C3 04 00 00 00 04
<b>STOP</b> □	6F 90 C3 02 00 00 00 02
<b>DOWN</b> ▼	6F 90 C3 01 00 00 00 01

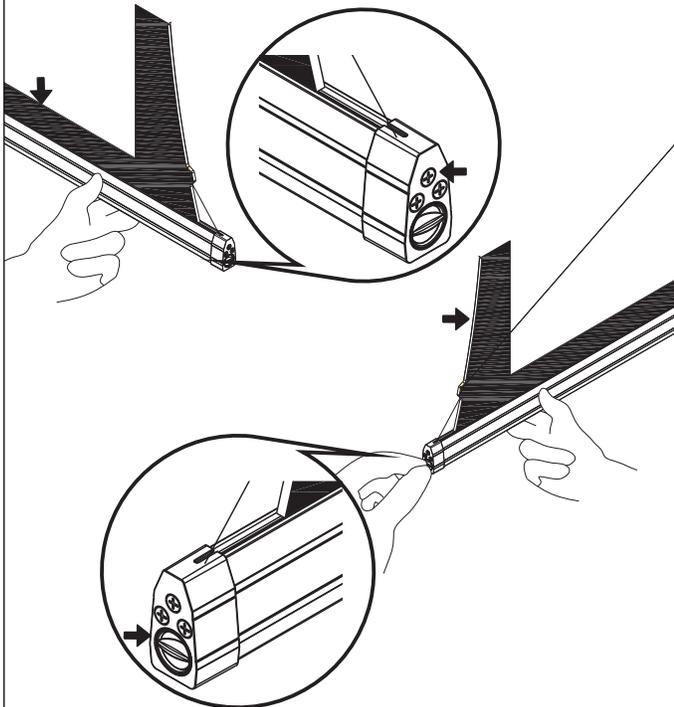


# TROUBLESHOOTING

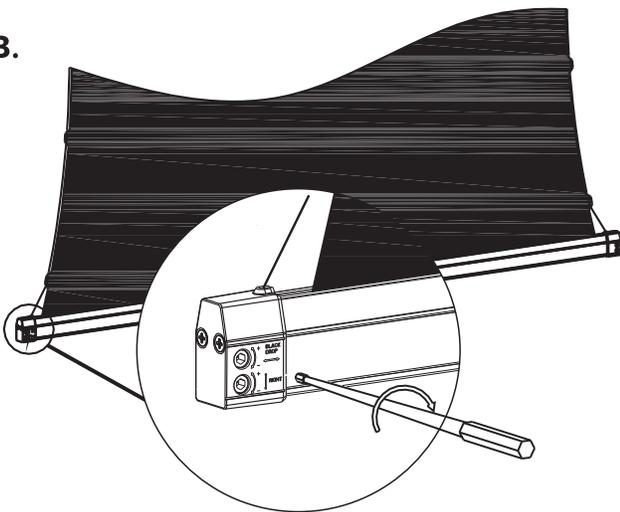
## Screen Flatness (A or B)



### A.(L)



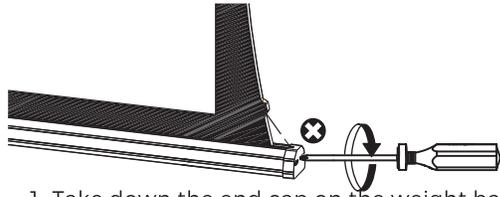
### B.



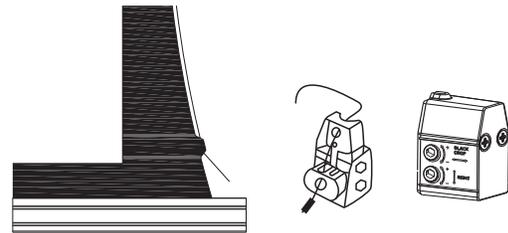
L/T: LEFT Tension  
 R/T: RIGHT Tension  
 BWT: Bottom Weight Bar

## How To Fix Broken Tensioning String

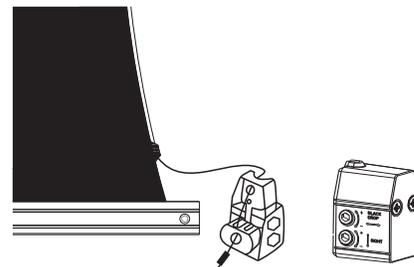
### A. Lower end is broken



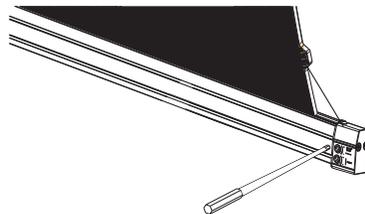
1. Take down the end cap on the weight bar.



2. Unscrew the related parts.

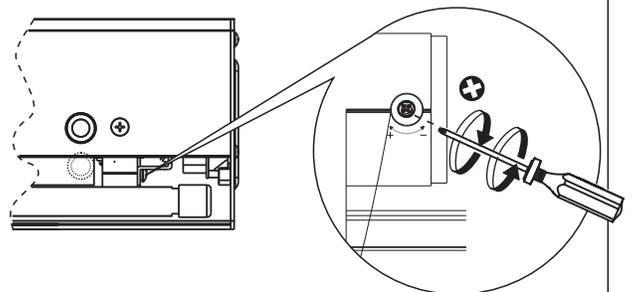


3. Pull the knob out and attach the string again.



4. Adjust the tension string by rotating the hole on the weight bar cap.

### B. Upper end is broken



# Fault Analysis and Elimination

Note: When the screen runs up/down 4 times in a row, the screen will automatically retract and turn on the child lock function protection mode (30 minutes)! all buttons on the remote control are disabled during this time. Please wait 30 minutes before resuming operations.

## **A. What if your remote doesn't work?**

Press any of the "Up", "Down" or "Stop" buttons on the remote control. If the indicator does not light up, means the battery is low. Replace/Plug in the charging power source.

## **B. What if you cannot pair the remote?**

Please unpair it first then proceed with pairing (refer to ADJUSTMENT AND USAGE section of this manual).

## **C. What if your screen doesn't respond to the remote control?**

The internal relay of the screen has a "Clack" sound. Please screw open the end cap to check if the wiring is in good shape. If the wiring looks good, it is recommended to replace the motor. If the relay has no response, try to replace the circuit board.

## **D. What if the synchronizer (optional) does not synchronize with the screen after pairing?**

Restart the projector and wait for 2 minutes then press the Learn button (on the screen end cap) until the screen automatically goes up and down, Press the Learn button on the synchronizer side afterward to check whether the indicator is flashing, and try to replace the synchronizer if not.

