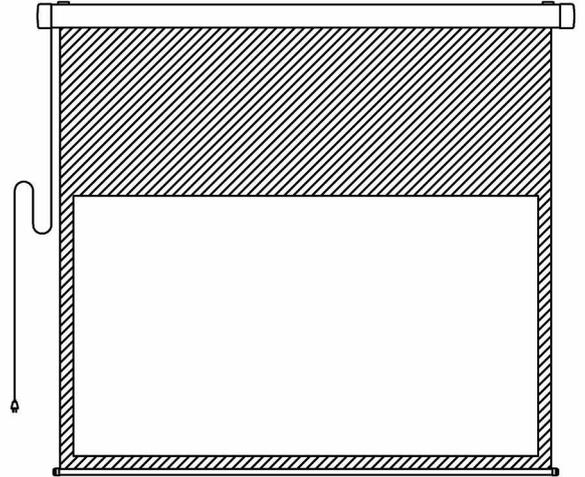


To our Users:

If you do not have the tools or are unaccustomed to the installation, or you are not sure about whether any base exists on ceiling or wall, or when installing this product on a concrete wall, ask the professional installer.

- About the professional installer, ask your dealer or us.
- Professional installers that have contracted for the installation should submit this manual together with the instruction manual.

**Index**

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Thank you for your purchase.

Ensure that you read this installation and instruction manual carefully and use the screen correctly.
Be sure to retain the manuals for future reference.

Important Safety Instructions

Ensure you follow the below instructions for safety.

This manual explains the necessary precautions to prevent the harm to the user or the others and any damage to property.

The marks show the level of harm and damage caused by the mal-handling or the disregard to the precautions.



WARNING This indicates that failure to follow these safety precautions could result in death or serious injury.



CAUTION This indicates that failure to follow these safety precautions could result in bodily injury or damage to property.

These marks explain the precaution contents.



Prohibition : you are prohibited to do so.



Force : you are forced not to do so.



WARNING



Confirm the strength of installation place for the long use of the screen

If the strength is not enough, the screen may fall off and cause harm.



Confirm the load of the screen can be sustained.

If the load is not enough, the screen may fall off and cause harm.



Do not damage the power cable and plug.

(Do not damage, process, twist, pull, put a heavy item on, bring close to the high temperature or bundle the power cord.)

It causes the electric shock, the short, and a fire when used with damage.



Make sure the power plug is inserted tightly.

When insertion is not enough, it may cause a fire by the electric shock and heat.



Pull out the power plug, when smoke, heat, smell or strange noise happens.

The continuous use may cause a fire and an electric shock.



WARNING



Stop using, when anything like metal, water, or liquid goes into the screen, and pull out the power plug.

The continuous use may cause a fire and an electric shock.



Take the power plug to connect, not the power cable.

It may damage the power cable and cause a fire and an electric shock.



Do not disassemble, repair and/or modify the screen.

The screen may fall out. Please consult your dealer for repair.



Do not touch the power plug when thundering.

It may cause an electric shock.



Do not hang from the screen or suspend anything to it.

It may damage the main unit or screen fabric with danger.



Do not operate the power plug with a wet hand.

It may cause an electric shock.



CAUTION



Do not pull out the screen more than the STOP label point.
The screen fabric may fall out.



Do not put anything or fragile thing below the screen.
Anything could block the movement of the screen causing damage.



Do not use the sharp cutlery or pointed metal near the screen.
It might damage the screen fabric.

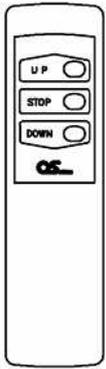


Do not forcefully pull out the screen.
The main unit or screen fabric may fall out.

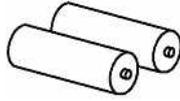
We are not responsible for the accidents or damages caused by mal-handlings and natural disasters, etc

Accessories

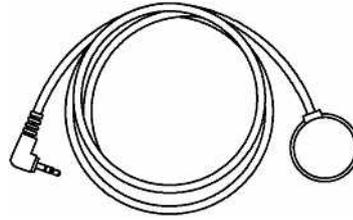
Please confirm the accessories before installation.
The parts and tools are subject to change according to the installation places
and mounting methods.



Infrared remote controller x1



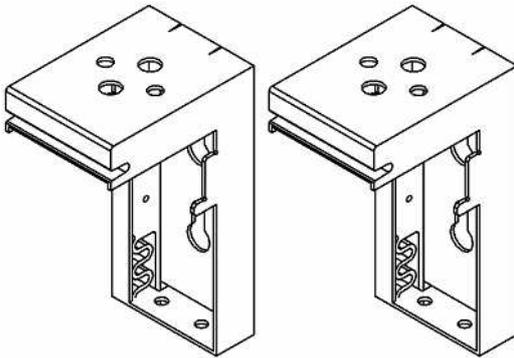
AAA dry batteries x2



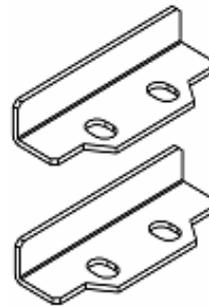
Infrared receiver x1



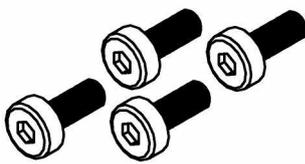
Spare sticker x1



Mounting brackets x2



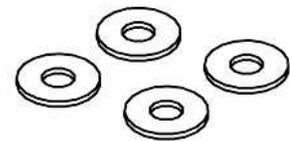
Stoppers x2



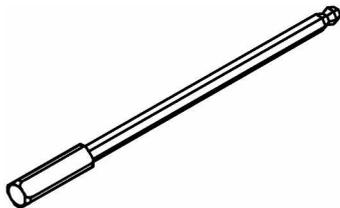
Bolts (M4x10) x4



Screw (4x40) x4



Washer (M4) x4



Hexagonal spanner x1
(nominal 4 for limit adjustment)

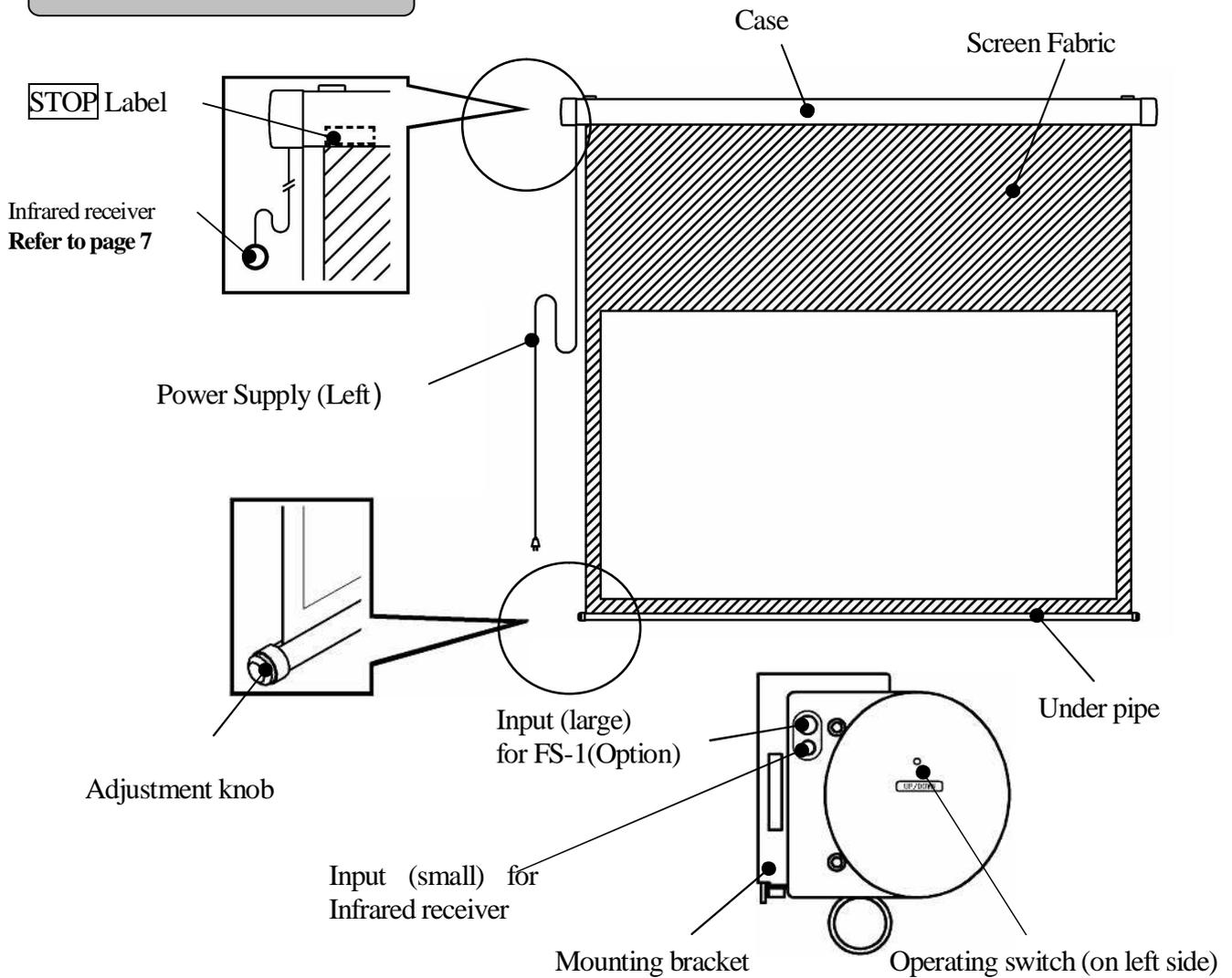


Hexagonal spanner x1
(nominal 3 for mounting bracket)

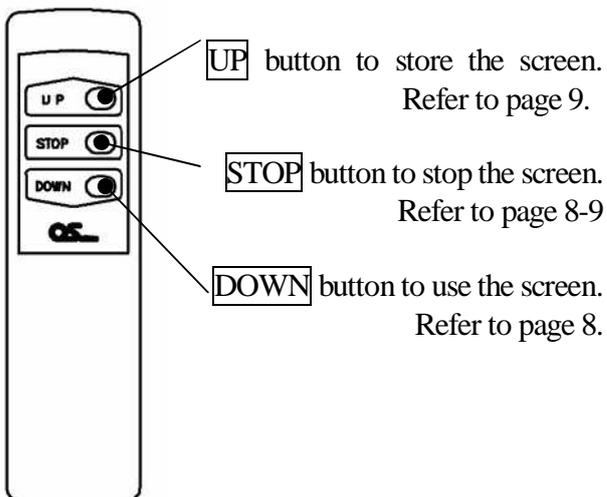
Construction & Parts name

The screen is composed of parts as below. Please confirm before installation

Screen main unit



Infrared remote controller



STOP label

If the screen fabric is pulled down more than the STOP label, it may cause the fall-out or reverse rolling. Do not pull out the screen more than the STOP label point.

Cautions in installation

Do not install the screen to such places to avoid malfunctioning and troubles.

- Place where vibration and impact might apply.
- Place where heat, steam, and oil or smoke generates.
- Place where wind of heating apparatus comes

Please check the structure and material of the mounting place before installation.

Make sure to put a blanket or soft cloth before installation to avoid any damage to the product or the floor.

Make sure to tighten the screws.

Pay attention to the environment for safety in installation.



WARNING

In installing the screen, make sure that the wall or ceiling is strong enough to keep the screen weight for long time. Reinforcement is necessary to mount the screen on gypsum or particleboard. If the strength is not enough, it may cause the fall off of the screen.

Installation Guideline

[Introduction] Please note all the parts have the determined mounting area and direction. Follow the instructions and drawings in this manual before installation.



WARNING

When installing this product, tighten the attached screws into base wood with more than 20 mm thickness in the ceiling or wall. If the base wood is insufficiently thick and the screws are not tight enough, they may fall out.

1. Checking the mounting area

This product can be installed on a ceiling or wall. Check the installation location before installing. In order to mount the bracket to base wood in a ceiling or wall with screws, push the “detection needle” into the ceiling or wall and locate base wood.

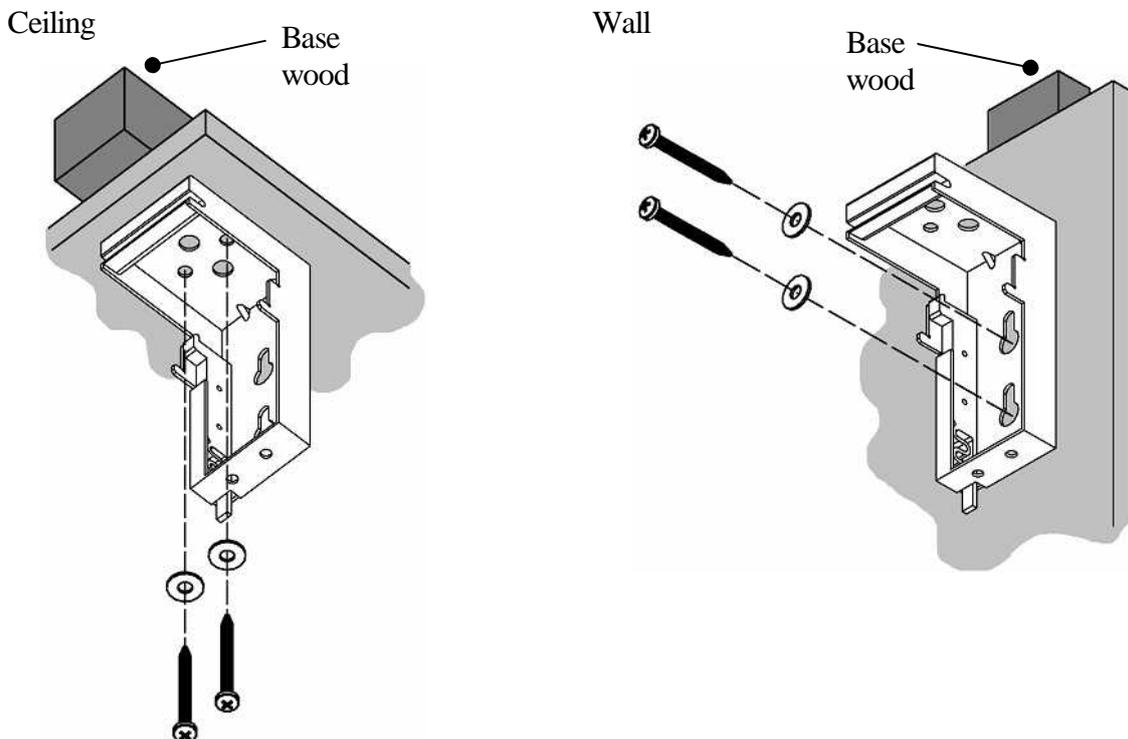
- If base wood cannot be found, ask a professional installer to mount the product.

2. Attaching the mounting brackets

Tool: Phillips screwdriver

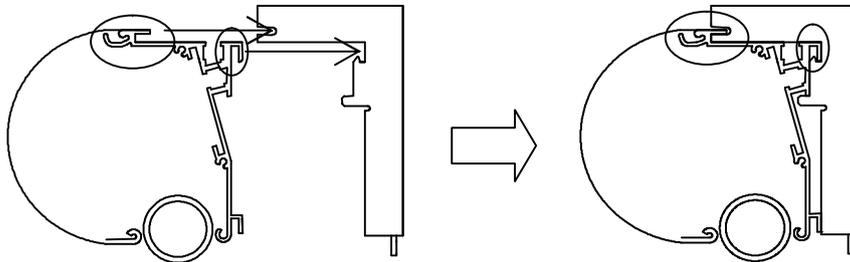
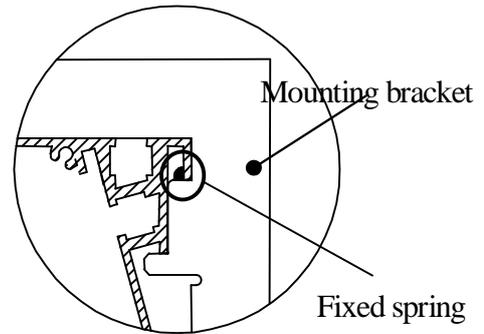
Mount the brackets to the ceiling or wall with the attached screws.

- (1) Mount the brackets in parallel.
- (2) For the distance between the two brackets, refer to the G dimensions in “Specifications”.

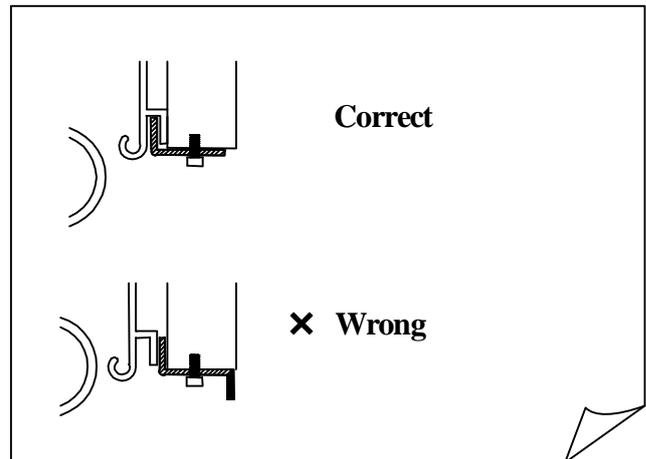
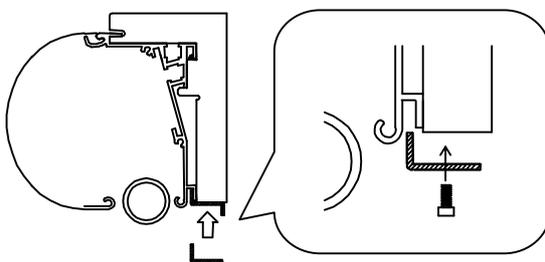
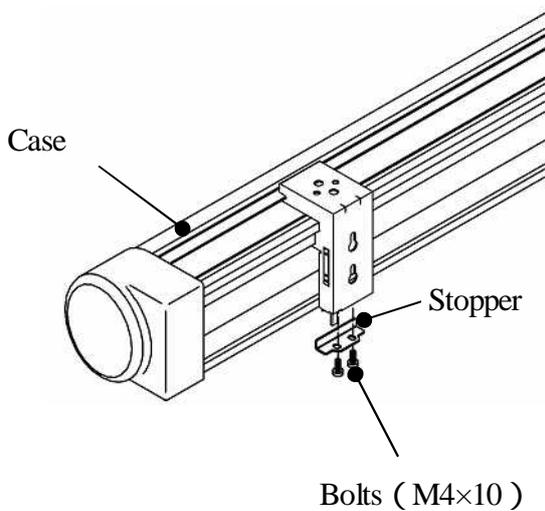


3. Mounting the main unit

1) Fit the mounting bracket into the groove of the screen case and then push the case horizontally in the direction of the arrow so that the fixed spring hooks in with the click sound



2) Use the attached bolts to fix the stopper (Use the attached hexagonal spanner)



3) After mounting, pull the screen case to verify that it will not remove.



WARNING

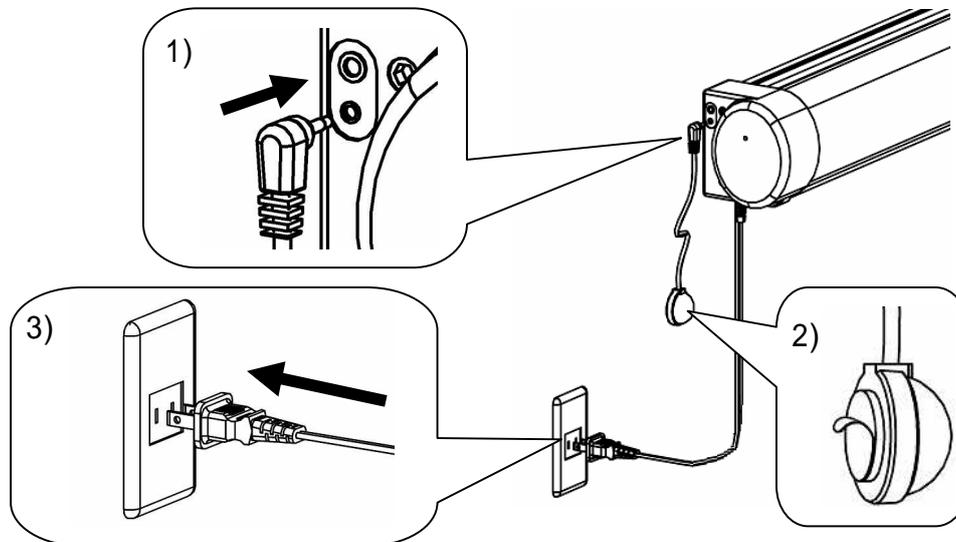
Ensure the screen case and mounting brackets are fitted.

Failure to do so may cause the screen to fall out. It may cause damage to the product and the environment.

Fitting the IR receiver and power cable

For those users who use FS-1, please refer to the instruction manual of FS-1.
FS-1 should be connected to the input (large).

- 1) Connect the plug of the Infrared receiver (the cable length is 300mm) to the input (small) located at the left cap of the case.
- 2) Remove the dust, water, oil and moist on the location, and stick the Infrared receiver tightly, peeling the coated paper off. The location should be where the signal of the infrared remote controller can reach. Avoid the direct sunshine area.
- 3) Put the plug of the Power cable to the main.



Reminder:

- When the reception is weak because of the direct sunshine, the infrared receiver location should be changed
- There are locations where the infrared receiver cannot be stuck.
- Use the spare sticker, when the adhesive power of the pad is weak.



WARNING Plug in the IR receiver plug tightly. If not, it may cause mal-functioning.



WARNING Make sure the power plug is inserted tightly.
When insertion is not enough, it may cause a fire by the electric shock and

CAUTION : operations of screen

Be careful in repeating the screen going up and down.

- The continuous use of the up and down operations may cause the heat prevention circuitry work, and stop the screen.

When this happens, please operate after some time (15 – 20 minutes) for cooling off.

This is not the breakdown.

Changing the automatic stop positions (Projection & stored positions)

Please read carefully before changing.

The automatic stop positions are pre-set at factory before shipment. Please follow the following instructions when changes are necessary.

UP position (Stored position): The maximum upper position is pre-set at factory.
For the changes, select the position below the pre-set.



CAUTION If the stop position is set upper the maximum position by mistake, the screen digs into to the case, and the fabric is pulled causing the breakdown and wrinkles.

DOWN position(Projection position): The maximum lower position is pres-set at factory.
For the changes, select the position upper than the pres-set.



CAUTION If the stop position is set below the pre-set, the fabric might fall off or roll back reversely, causing wrinkles.

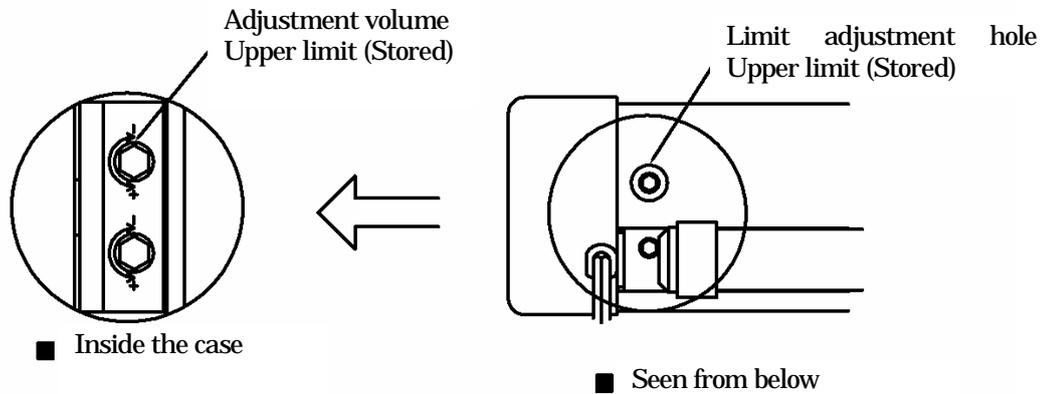
Limit switch setting

Change of [UP] position **It should be below the pre-set position.**

Take off the white cover for the limit adjustment hole.

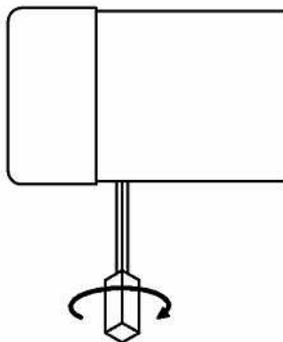
Confirm the adjustment volume.

Make sure the screen is set at [UP] (Stored) position before adjustment.



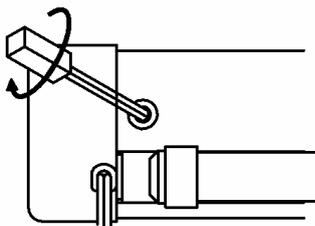
Put the hexagonal spanner into the limit adjustment hole, and turn the adjustment volume clock wise. Gradual adjustments recommended not exceeding the screen down position.

Turn direction

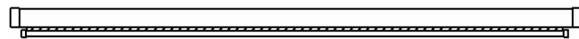


Seen from the front

Seen from below



Preset
Position
[UP]



1 turn makes the screen drop approx. 30mm.

Ref. 1/2 turn: approx. 15mm

Remember the times of turn until the final confirmation of the UP position.

Desired
position
[UP]



After adjustment, push the [DOWN] button of the IR remote controller. When the screen is drawn approx. 20-30cm, push the [STOP] button.

Push [UP] button and confirm whether the screen stops at the desired position.

Reminder:

Be careful in repeating the screen going up and down. The continuous use of the UP and DOWN operations may cause the heat prevention circuitry work and stop the screen. When this happens, please operate after some time (15-20 minutes) for cooling off.

-This is not the breakdown.

When the UP position is too low

When the stored position is too low, follow the next steps and adjust.

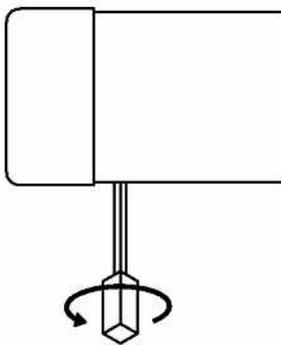
Make sure the screen is stored before adjustment. Put the hexagonal spanner in the same place as previous page. Turn the adjustment volume counter-clock-wise. Be careful not to adjust too much.



CAUTION

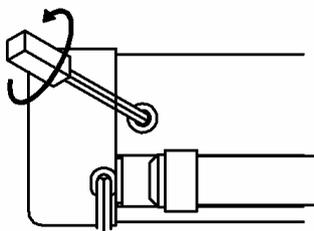
If the volume is adjusted CCW too much, the screen digs into the case, and the fabric is pulled causing breakdown and wrinkles.

Turn direction

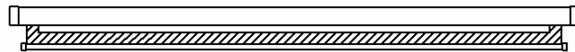


Seen from the front

Seen from below



Stored position
UP



1 turn makes the screen approx. 30mm up

Ref. 1/2 turn: approx. 15mm

Remember the times of turn until the final confirmation of the UP position.

Desired position
UP



After adjustment, push the **DOWN** button of the IR remote controller. When the screen is drawn approx. 20-30cm, push the **STOP** button.

Push **UP** button and confirm whether the screen stops at the desired position.

If the adjustment volume is turned CCW excessively, even after the screen is stored in the case, the under pipe hits the case, and the motor does not stop. Push the **STOP button to stop the operation.**

After stopping the operation, turn the adjustment volume CW. (See the previous page)

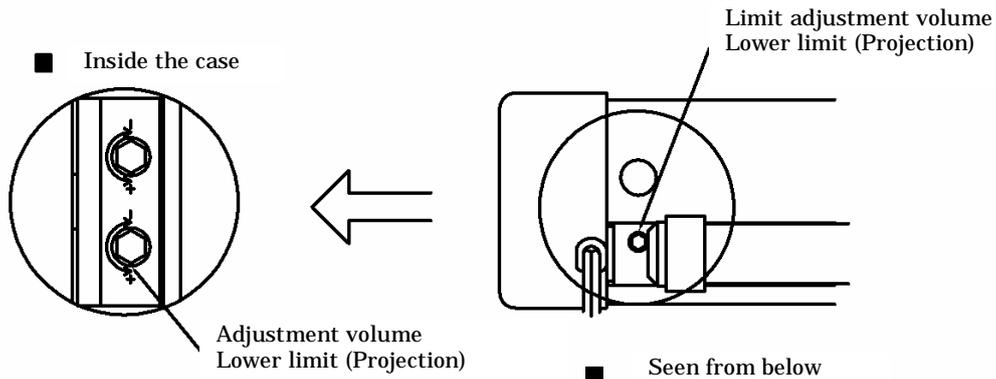
Confirm if the screen stops at the desired positions by pushing **DOWN**, **STOP** and **UP** buttons. Do not forget to put back the cover to the limit adjustment hole.

Change of 【DOWN】 position

It should be upper than the pre-set position.

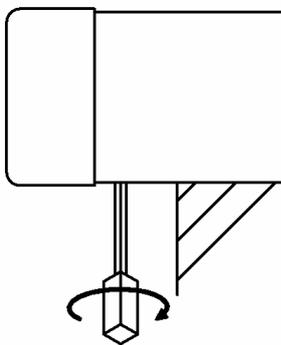
Confirm the adjustment volume in the left side of the case.

Make sure the screen is set at DOWN (Projection) position before adjustment.



Put the hexagonal spanner to the limit adjustment volume, and turn it clock wise. Gradual adjustments recommended not exceeding the screen up position.

Turn direction



Preset position

DOWN

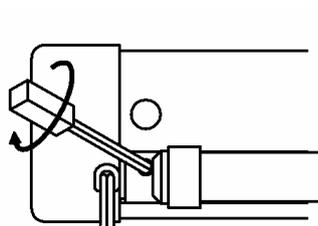
1 turn makes the screen approx. 30mm up

Ref. 1/2 turn: approx. 15mm

Remember the times of turn until the final confirmation of the DOWN position.

Seen from the front

Seen from below



Desired position

DOWN

After adjustment, push the UP button of the IR remote controller. When the screen is rolled up approx. 20-30cm, push the STOP button.

Push DOWN button and confirm whether the screen stops at the desired position.

Reminder:

Be careful in repeating the screen going up and down. The continuous use of the up and down operations may cause the heat prevention circuitry work, and stop the screen. When this happens, please operate after some time (15-20 minutes) for cooling off.

This is not the breakdown.

When the [DOWN] position is too high

When the projection position is too high, follow the next steps and adjust.

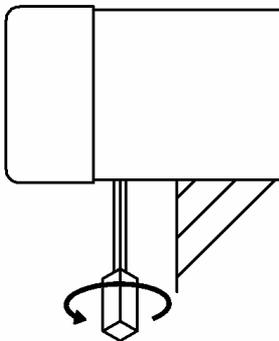
Make sure the screen is in projection position before adjustment. Put the hexagonal spanner in the same place as previous page. Turn the adjustment volume counter-clock-wise. Be careful not to adjust too much.



CAUTION

If the volume is adjusted CCW too much, the fabric might fall or rolled back reversely, causing wrinkles. Do not pull out the fabric more than **STOP label.**

Turn direction



Seen from the front

Projection position **DOWN**

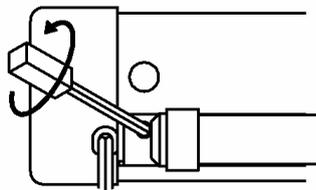


1 turn makes the screen approx. 30mm down.

Ref. 1/2 turn: approx. 15mm

Remember the time of turn until the final confirmation of the UP position.

Seen from below



Desired **DOWN**

position ↓



After adjustment, push the **UP** button of the IR remote controller. When the screen is rolled back approx. 20-30cm, push the **STOP** button.

Push **DOWN** button and confirm whether the screen stops at the desired position.

Q&A

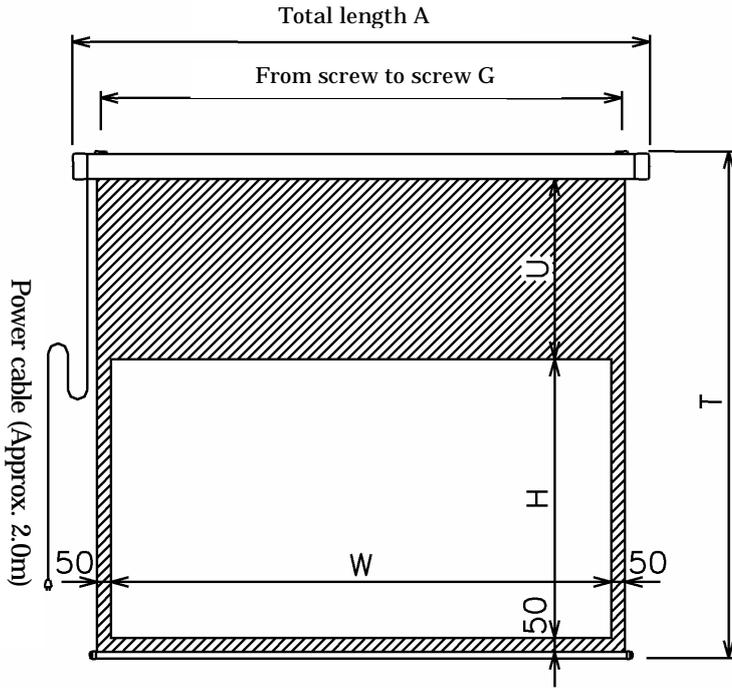
Please do the following checks before requesting for repair when malfunction happens.

Please pull out the power plug before you check. If the malfunction cannot be remedied even after all the checking points as below are confirmed, consult with the dealer or us.

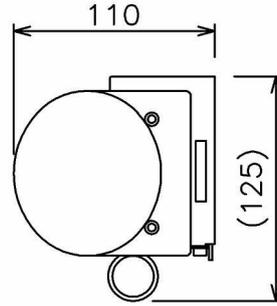
Symptom	Check	Remedy
The projected image becomes inclined.	Is the screen mounted horizontally?	Check the mounting holes.
The screen does not operate.	Is power plug fixed to the mains correctly?	Fix the plug tightly.
	Is the remote controller directed to the receiver?	Direct the remote controller to the receiver.
	Anything blocking between remote and the receiver?	Take off the blocking item, or change the receiver position.
	Is the sun or lights reflected on the receiver?	Change the position of the receiver.
	Batteries of remote low?	Change the two batteries in the remote.(AAA type)
	Is the heat prevention circuitry on?	Cool off the motor and operate again after 15-20 minutes.
The screen is stored, but the motor does not stop.	Is the limit volume (Upper limit) turned too much CCW?	Stop the operation. Readjust the upper limit referring to page 12 of Installation Manual.

Specifications

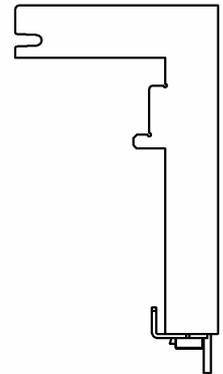
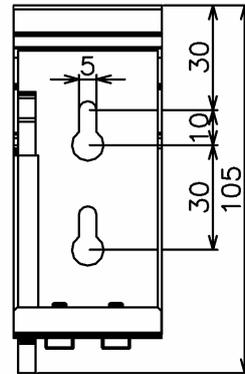
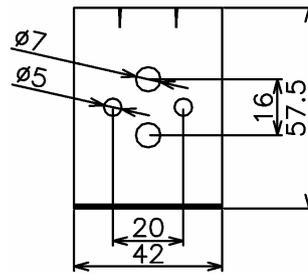
E1- H- /E1- V-



Side view(Stored)



Mounting bracket



Model	Size W×H(mm)	UBB U(mm)	T. Length A(mm)	From screw to screw G(mm)	T. Height T(mm)	Weight (kg)	Power Consumption (VA)
E1-080H-064	1771×996	640	2046	1350 or above	1812	9.4	92
E1-090H-051	1992×1121	510	2267			10.3	
E1-100H-039	2214×1245	390	2489	1800 or above		11.2	
E1-110H-027	2435×1370	270	2710			12.1	
E1-120H-014	2657×1494	140	2932	2250 or above		13.0	
E1-080H-110	1771×996	1100	2046	1350 or above	2272	10.0	92
E1-090H-097	1992×1121	970	2267			10.9	
E1-100H-085	2214×1245	850	2489	1800 or above		11.8	
E1-110H-073	2435×1370	730	2710			12.7	
E1-120H-060	2657×1494	600	2932	2250 or above		13.6	
E1-080V-088	1626×1219	880	1901	1000 or above	2272	9.5	92
E1-090V-072	1829×1372	720	2104			10.3	
E1-100V-057	2032×1524	570	2307	1350 or above		11.1	
E1-110V-042	2235×1676	420	2510			12.0	
E1-120V-027	2438×1829	270	2713	1700 or above		12.8	
E1-100L-064	2337 × 995	640	2612	1800 or above	1812	10.0	92
E1-110L-054	2571 × 1094	540	2846	2250 or above		12.5	

□ Specifications and design may change without prior notice.

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