



Lens Unit

Model XP-57UL

Installation Manual

To Customers

Special skills are required to install the projector and the lens unit. Absolutely do not attempt to perform the installation yourself. The product could fall and cause injury. Please have your dealer perform the installation work.

To Dealers and Installers

When installing the lens unit and adjusting the angle, always perform the work based on this manual. Improper installation and angle adjustment may cause the lens unit to fall and result in injury.

Introduction

This manual is the installation manual for the XP-57UL lens unit. The projector's lens itself is referred to as the "lens unit."

This manual describes precautions for handling the lens unit, as well as the method for installing and adjusting the support kit (a component combining support base (A), support base (B), and the support stage).

Please refer to the projector's installation manual for this lens unit's throw distance table.

[Important]

- Please check the projector's firmware version before using this lens unit.

The firmware version to be checked is the version for "CONTROL MODULE" under "INFORMATION" → "VERSION" in the on-screen menu. (→ Page 26)

Projector model no.	Compatible versions
XP-X171Q-B/XP-X171Q-W	MM05-LDxx (with a number after MM of 05 or higher)
XP-X141Q-B/XP-X141Q-W	MM10-LDxx (with a number after MM of 10 or higher)

This lens unit cannot be used if the version is earlier than the ones in the table above. Please consult your dealer.

- Do not perform lens calibration or lens shift while the support stage is secured. When adjusting lens calibration and lens shift, always ensure that the support stage is not secured. If the support stage is secured, the projector or lens unit will be damaged. (→ Page 17)
- When performing stacking projection with this lens unit attached, the projector's stacking holders cannot be used. Do not stack projectors directly on top of one another. When stacking projectors, use a sturdy cabinet that can withstand the total mass (approximately 43 kg) of the projector, lens unit, and support kit.






NOTE:

- If the firmware is not compatible with this lens unit, this will affect the operations below.
 - The image will not be projected in the orientation set at "ORIENTATION" in the on-screen menu. (Page 25)
 - The operation buttons on the projector will move in the opposite direction. (Page 25 onwards)
 - The lens calibration and lens shift confirmation messages will not be displayed. (Pages 25, 29)
 - The content of the confirmation message displayed during lens calibration and lens shift is subject to change.
 - The illustrations used in the procedural descriptions in this manual are for floor-mounted installation.
 - The illustrations in this manual may differ slightly from the actual product.
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About the installation posture icon display

In this manual, icons are displayed as shown below to make it easy to understand which installation posture the description corresponds to.

Installation postures represented by the icons

	Tabletop mount projection		Projecting onto the ceiling
	Ceiling mount projection		Portrait projection
	Floor projection		

Example of icon display (when only ceiling mount projection is applicable)



Postures that are not applicable are indicated "N/A".



Important Information

About the symbols

In this User's Manual and on the product, the graphic symbols below are used to ensure the product is used safely and correctly, and to prevent harm to you or other people and damage to property before it happens.

 WARNING	Failing to heed this symbol and handling the product erroneously could result in accidents leading to death or major injury.
 CAUTION	Failing to heed this symbol and handling the product erroneously could result in personal injury or damage to surrounding property.



To Customers

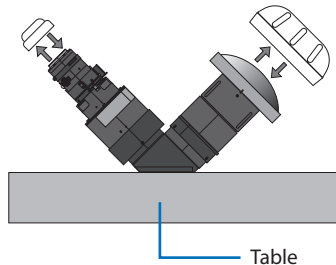
- Special skills are required to install the projector and the lens unit. Absolutely do not attempt to perform the installation yourself. The product could fall and cause injury. Please have your dealer perform the installation work.

To Dealers and Installers

- To prevent the unit from falling, ensure that the strength of the mounting location and fastening method can sufficiently withstand four times the combined load (approximately 43 kg) of the projector (approx. 30 kg), lens unit (6.8 kg), and support kit (6.1 kg) for a sustained period and can also sufficiently withstand earthquakes. Improper installation may cause the projector to fall and result in injury.
- Two or more persons should perform these operations. Lifting the projector alone could cause injury or lower back pain.
- There is a risk of the lens unit falling when working in high places. Please ensure that no one is underneath the work area.
- When installing the lens unit, always secure the lens unit to the projector using the support kit. If it is not secured, the lens unit may fall and result in injury.
- Do not use thread-locking adhesives, lubricants, or oils on the support kit fastening parts. Doing so may cause the material of the fastening parts to deteriorate, causing the lens unit to fall and result in injury.
- Do not disassemble or modify the lens unit and the support kit. The projector could fall and cause injury. In addition, leaking laser light may cause vision impairment or burns.
- Do not use broken parts. The lens unit could fall and cause injury. In the event that a part is broken, please consult your dealer.
- Do not look into the lens while the projector is in operation.
Intense light is projected when the projector is operating and can damage your vision. Furthermore, exposure to laser light near the lens may cause burns.
- When installing a projector with the lens unit attached by suspending it from a high location such as a ceiling, use a commercially available safety wire to prevent the lens unit from falling.
- NEVER touch the motor, metal fixtures (motor mounting part, projector mounting part, and wiring fixtures), or gears while the lens unit is being installed or adjusted. Doing so could cause injury.

Precautions for Handling the Lens Unit

- The projector and lens unit are made of precision parts. Do not subject them to impact or apply excessive force.
- Always remove the lens unit before moving the projector. If the projector is moved with the lens unit attached and the projector is subjected to impact, the lens unit and lens shift mechanism may be damaged.
- When removing or installing the lens unit, turn off the power, wait for the cooling fan to stop, and then unplug the power cord from the outlet before starting work.
- NEVER touch the lens surface during work.
- Be careful not to allow dust or oil to adhere to the lens surface, and ensure it does not get scratched.
- If the lens unit is to be left off for a long time, attach a dust cap to the projector to prevent dust or debris from entering the interior.
- When mounting the lens unit on the projector, be sure to remove the lens cap on the mounting side. Attaching it while the lens cap is still on may cause damage to the projector.



- After removing the lens unit, always attach both the front and rear lens caps. The lens surface may be scratched if the lens caps are not attached, even for a short period of time. Do not place the lens unit upright without attaching the lens caps.
- Store the removed lens caps in a safe place.

About Disposal

Contact your dealer or local municipality when disposing of this product.

Contents (workflow)

1. Preparation (See [next page](#))

- 1-1. Checking the projector's model number
- 1-2. Checking the included items
- 1-3. Preparing a Phillips head screwdriver and a ball end hexagon screwdriver



2. Installation (See [page 8](#))

- 2-1. Attaching the support base to the projector
- 2-2. Installing the projector
- 2-3. Mounting the lens unit on the projector
- 2-4. Attaching the support stage



3. Adjustment (See [page 23](#))

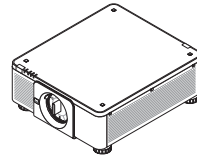
- 3-1. Performing Lens Calibration
- 3-2. Adjusting the projection position
- 3-3. Adjusting the tilt and distortion of the projected image
- 3-4. Adjusting the focus
- 3-5. Securing the support stage

1. Preparation

1-1. Checking the projector's model number

This lens unit is compatible with the projectors below.

Model No. XP-X171Q-B, XP-X171Q-W,
XP-X141Q-B and XP-X141Q-W



1-2. Checking the included items

① Lens unit: 1 pc.

Support Kit

② Support base (A): 1 pc.

③ Support base (B): 1 pc.

④ Support stage: 1 pc.

Bracket

⑤ Bracket: 1 pc.

Screws, bolts and washers

⑥ Screws (M4×38): 2 pcs

⑦ Adjustment bolt (M6×25): 1 pc.

⑧ Screws (M4×14): 8 pcs

⑨ Screws (M6×14): 9 pcs

⑩ Washers: 3 pcs

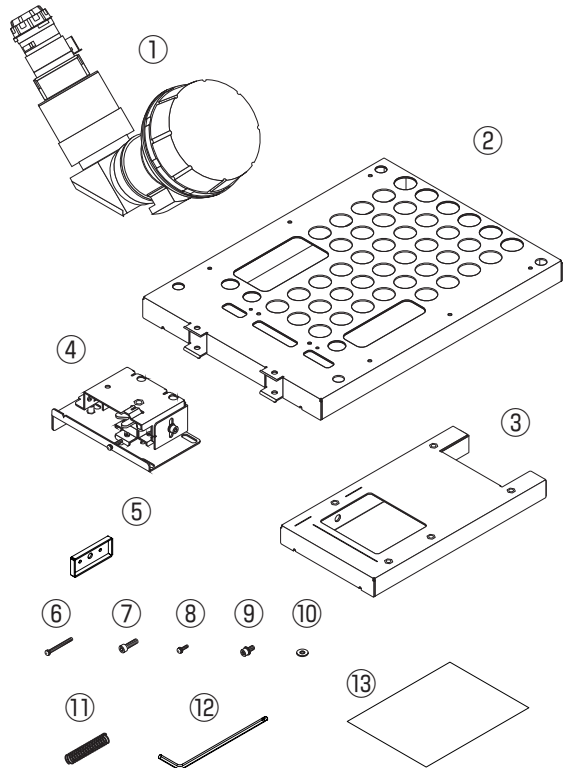
Springs

⑪ Springs: 2 pcs

Tools

⑫ Wrench: 1 pc.

⑬ User's Manual: 1 pc.



1-3. Preparing a Phillips head screwdriver and a ball end hexagon screwdriver

- Strongly magnetized Phillips screwdriver, ball end hexagon wrench (2.5 mm across flats)
- When installing in a ceiling-mounted or portrait orientation, use mounting unit that can sufficiently withstand the weight of the projector, lens unit and support kit.

2. Installation

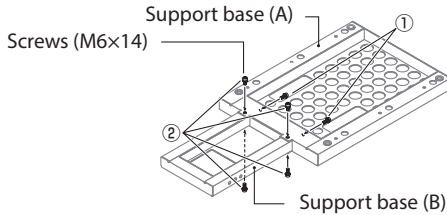
2-1. Attaching the support base to the projector

1. Attach support base (B) to support base (A).

- Install support base (A) and support base (B) so that the recessed sides are on the same face.
- Insert support base (B) into the holes of support base (A), and tighten with six screws (M6×14) in the order of ① and ②, as shown in the diagram below.

CAUTION

- Do not touch, tighten, loosen or remove any screws other than those shown in the diagram.

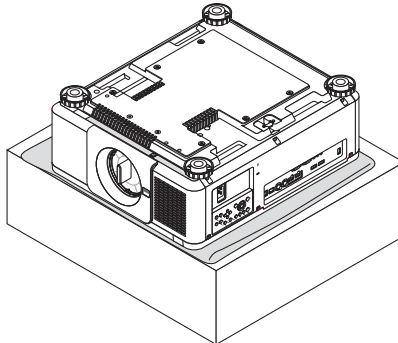


2. Turn the projector over.

Gently place the projector upside down on a table covered with a soft cloth or similar material.

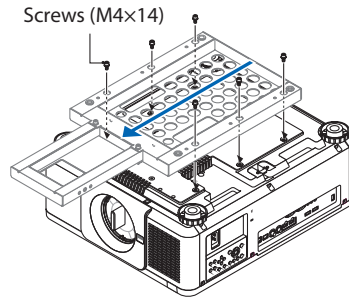
CAUTION

- Two or more persons should perform these operations. Lifting the projector alone could cause injury or lower back pain.



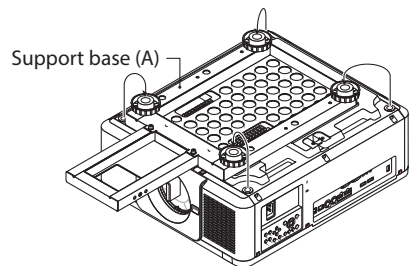
3. Attach the support base assembled in Step 1 to the bottom of the projector.

- Place support base (A) so that it is lined up with the two guide pins on the bottom of the projector.
- Line up the six screw holes in the lens holder and support base (A), and temporarily secure them with six screws (M4×14).
- After temporarily securing the screws, push the support base in the direction of the arrow, then tighten the screws.



NOTE:

- When installing on the floor for projection, remove the tilt feet (4 pieces) from the projector and attach them to support base (A).



2-2. Installing the projector

CAUTION

- Two or more persons should perform these operations. Lifting the projector alone could cause injury or lower back pain.

For ceiling mounting					
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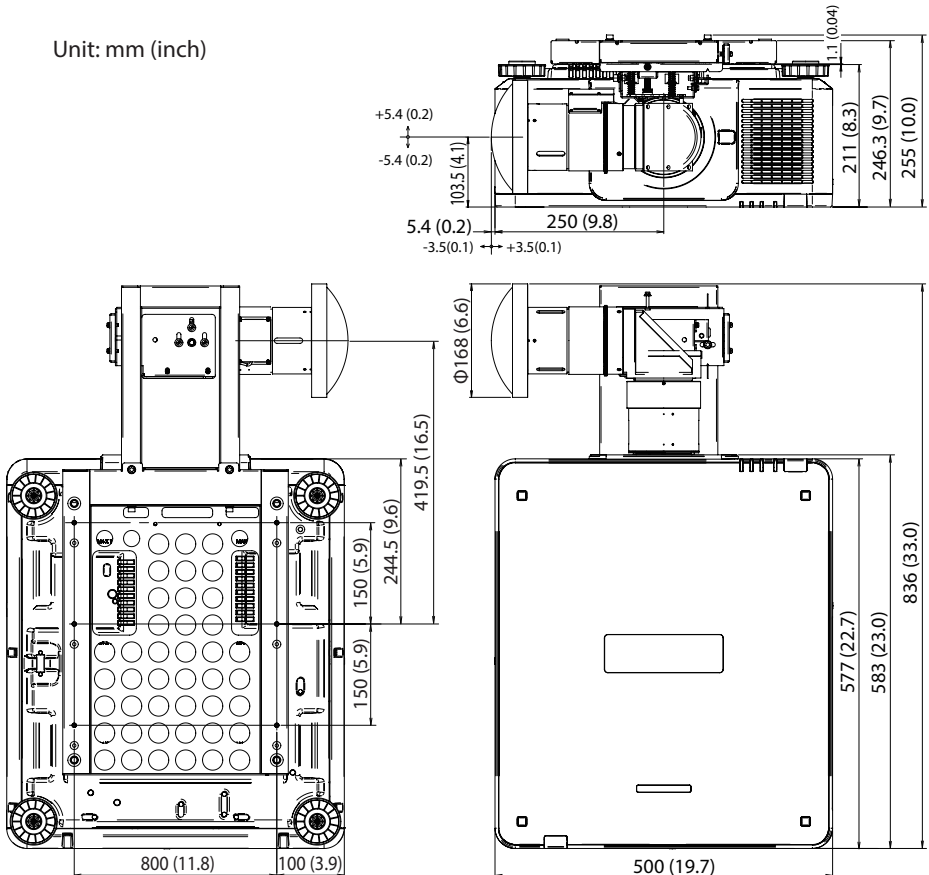
1. Mount the projector to the ceiling using a ceiling mount unit.

The diagram below shows the dimensions with the lens unit attached.

Mounting the lens unit is explained in the next chapter.

Attach the lens unit after installing the projector.

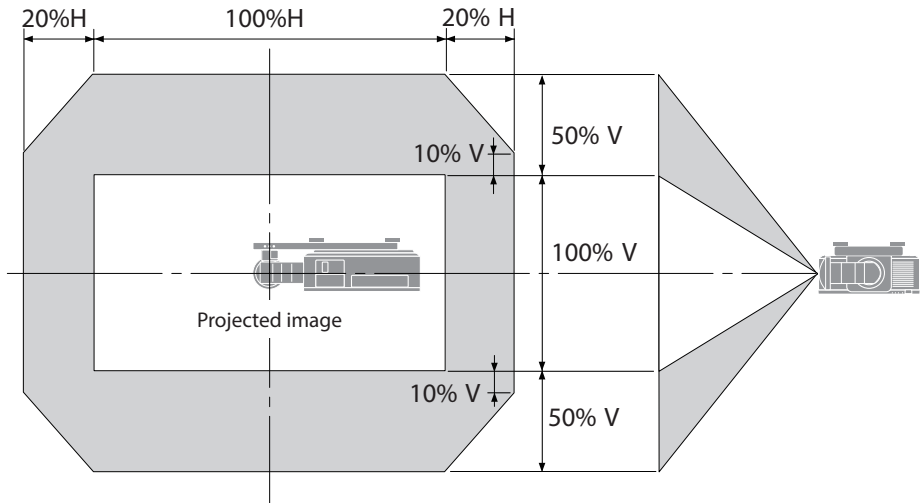
Unit: mm (inch)







Lens shift range

Please refer to the projector's installation manual for the throw distance table.

The diagram on the right shows the state after lens calibration. (→ Page 23)



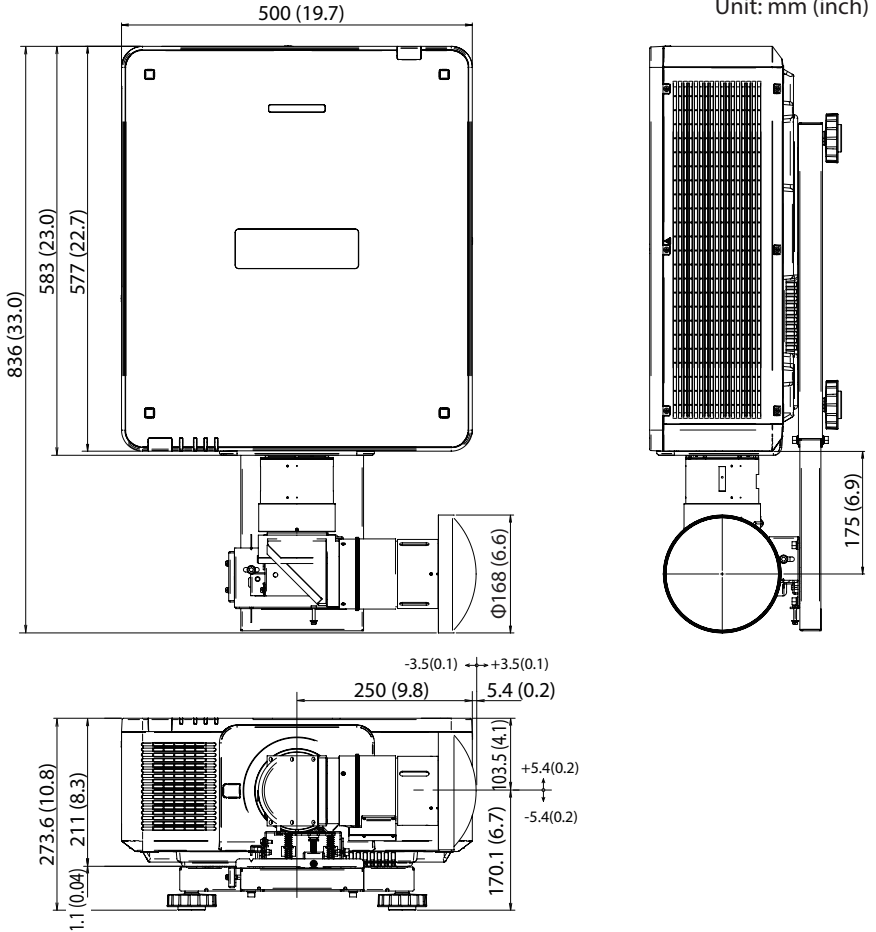
For floor placement					
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1. Return the projector to its original position.

The diagram below shows the dimensions with the lens unit attached.

Mounting the lens unit is explained in the next chapter.

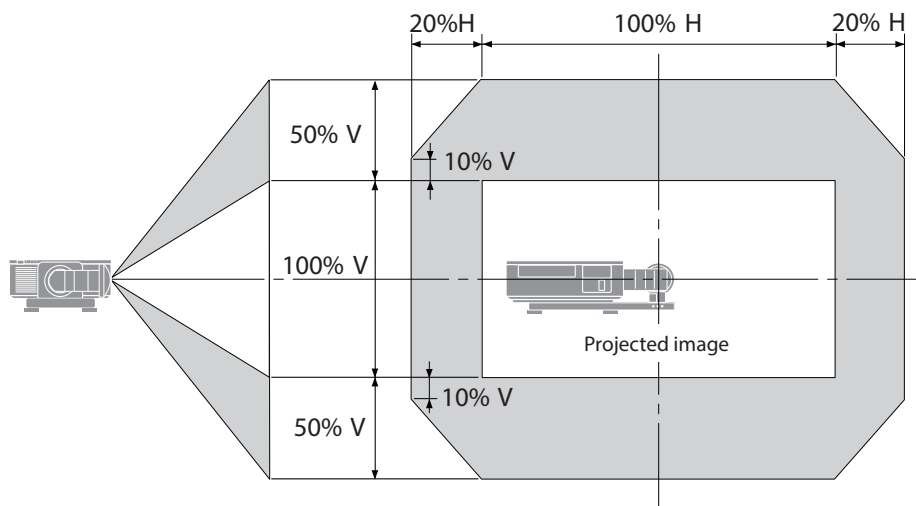
Attach the lens unit after installing the projector.



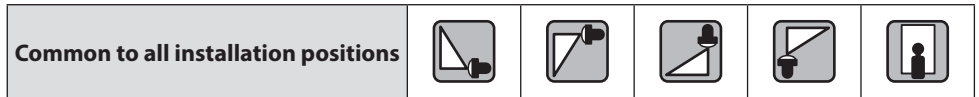
Lens shift range

Please refer to the projector's installation manual for the throw distance table.

The diagram on the right shows the state after lens calibration. (→ Page 23)



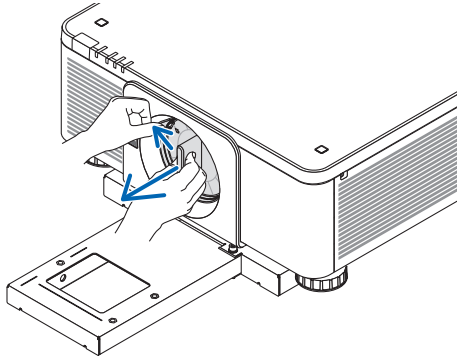
2-3. Mounting the lens unit on the projector



* The orientation in the illustrations for attaching the lens unit is for floor placement.

1. Remove the dust cap from the projector.

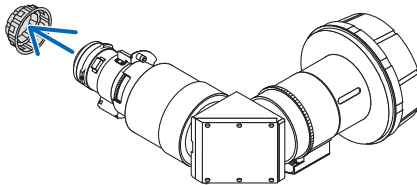
While pushing the upper-left tab outward, pull the center tab to remove it.



2. Remove the lens cap from the rear of the lens unit.

NOTE:

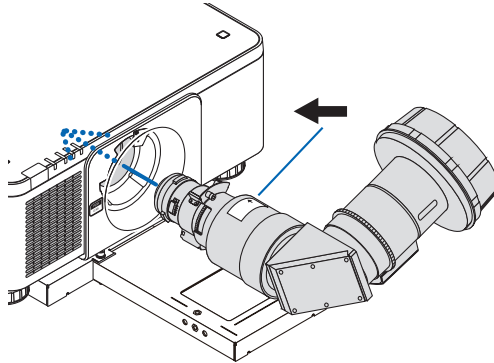
- Be sure to remove the rear lens cap. Attaching the lens unit to the projector with the rear lens cap still attached may cause damage.



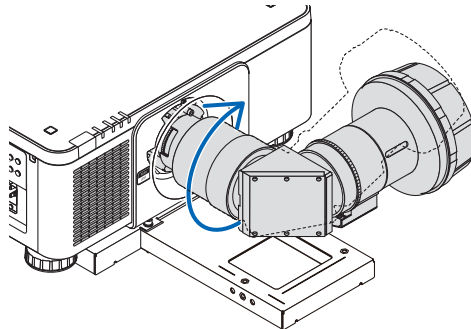
3. Mounting the lens unit on the projector.

- ① Insert the lens unit into the projector with the label side on which the arrow mark is printed facing up.

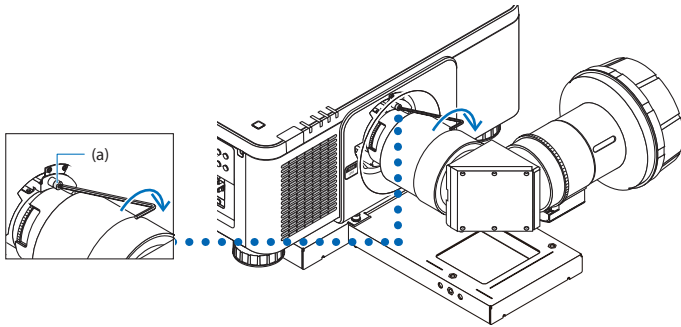
Insert slowly all the way in while maintaining the angle.



- ② Turn the lens unit clockwise.
Turn the lens unit until you hear a click.
This lens unit is now fastened to the projector.



- ③ Use a ball end hexagon wrench screwdriver to turn lens unit screw (a) clockwise to tighten it.



NOTE:

- For ceiling mounting, tighten the screw while lifting the front side (screen side) of the lens unit.

This completes the lens unit installation.

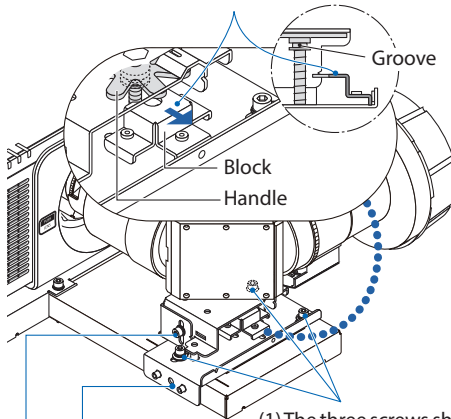
2-4. Attaching the support stage

Install the support stage between support base (B) and the lens unit.

[Important]

- Do not perform lens calibration or lens shift while the support stage is secured. Be sure to check that the support stage is not secured before performing lens calibration or adjusting lens shift. If the support stage is secured, the projector or lens unit will be damaged.
- The state in which the support stage is not secured refers the state satisfying all of points (1) to (4) below. (Refer to the diagram below)
 - (1) The three screws fixing the support stage to support base (B) are loosened enough that they can be turned by hand.
 - (2) The two screws on the left and right of the support stage are loosened enough that they can be turned by hand.
 - (3) The support stage's center screw is removed, the internal block is pulled forward, and the flower-shaped handle is turned to a position close to the top surface of the support stage.
 - (4) The bracket and adjustment bolts are not attached to the support stage.

- (3) The block should be detached from the flower-shaped handle, and the flower-shaped handle should be at a position close to the top surface of the support stage.



(1) The three screws should be loosened.

(4) There should be no brackets or adjustment bolts.

(2) This screw and the screw on the opposite side should be loosened.

CAUTION

- Do not touch, tighten, loosen or remove any screws other than those shown in the diagram.

NOTE:

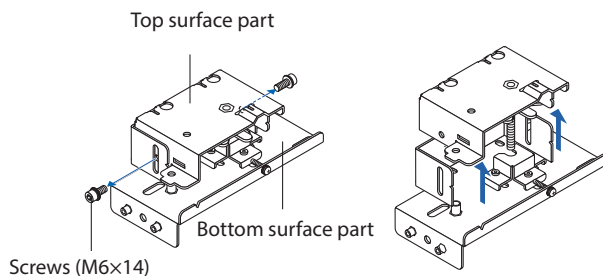
For floor placement



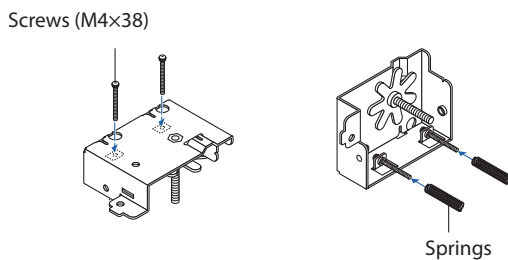
For floor placement, install the springs (2 pieces) inside the support stage.

- ① Remove the screws (M6×14) on the left and right of the support stage, and remove the top surface part of the support stage.

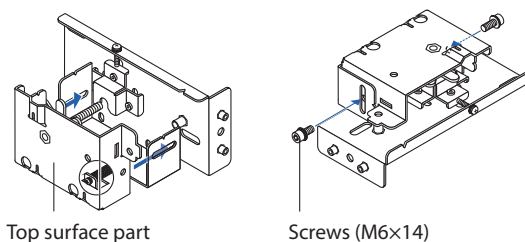
- Be careful not to lose the removed screws.



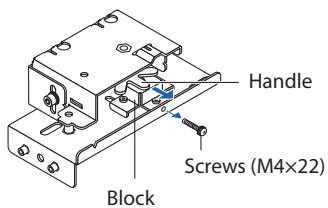
- ② Install screws (M4×38) at two locations on the top surface part, and attach a spring to each screw.



- ③ Attach the top surface parts to the support stage, and lightly tighten the left and right screws (M6×14).

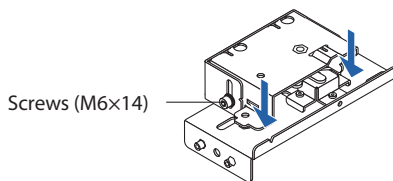


- ④ Remove the screw (M4×22) on the front of the support stage, and pull out the block inside.
- If the block does not move, turn the flower-shaped handle to loosen it.
 - Be careful not to lose the removed screws.



- ⑤ While holding the support stage from above and below, tighten the left and right screws (M6×14).

This minimizes the height of the support stage.

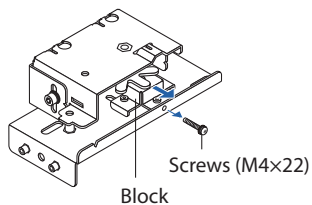


In cases other than floor placement

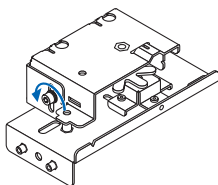


1. Remove the screw (M4×22) in the center of the support stage, and pull out the block inside.

- Be careful not to lose the removed screws.



2. Loosen the two screws (M6×14) on the left and right of the support stage until they can be turned by hand.

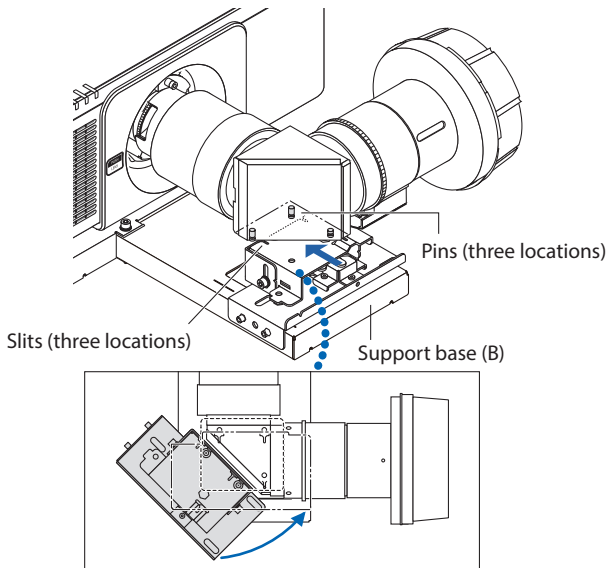







Common to all installation positions



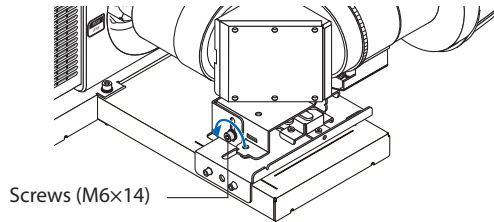
3. Insert the support stage between the support base (B) and the lens unit.






- Pay attention to the angle at which the support stage is inserted.
- There are three pins under the lens unit. Insert them into the three slits on the top of the support stage.
- If the support stage is difficult to insert, lift the lens unit slightly.
- For floor placement, rotate and insert from an angle like the one shown in the diagram below.



For floor placement					
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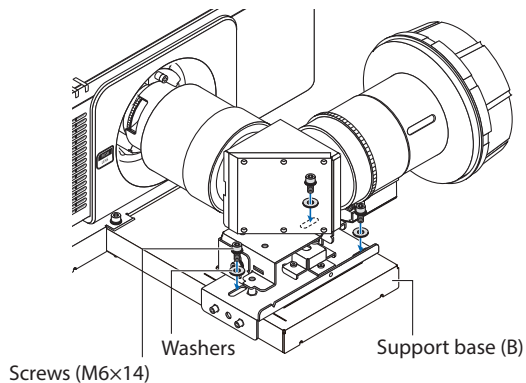
4. For floor placement, loosen the two screws (M6×14) on the left and right of the support stage here until they can be turned by hand.



Common to all installation positions					
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5. Temporarily secure the support stage to support base (B).

- Use the screws (M6×14) and washers to temporarily secure three locations on the support base (B).



3. Adjustment

Common to all installation positions



Before adjusting the projected image height, tilt, keystone distortion, focus, or other settings, lens calibration must be performed first.

* **The orientation of the illustrations in the adjustment section is for floor placement.**

3-1. Performing Lens Calibration

Return the projector lens to its home position. The procedure below explains how to return the lens to its home position using the Lens Calibration function.

For details on connecting the power cord and turning the power on and off, see the projector's user's manual.

WARNING

- Do not perform adjustment work while standing between the screen and the lens. Intense light from the lens could enter your eyes and cause vision damage.
- Do not place your hands near the lens unit mounting area while the lens unit is operating. There is a risk of catching your fingers in the gap between the cabinet and the lens unit.

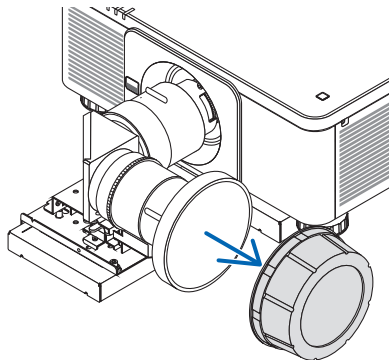
1. Connect the projector and the wall outlet using the included power cord.

When power is supplied to the projector, the POWER indicator lights up red.

2. Remove the lens cap.

NOTE:

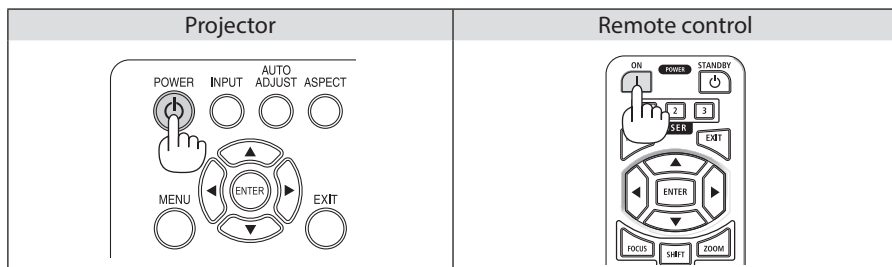
- Leave the lens cap removed from the lens while the power of the projector is on. High temperatures will cause the lens cap to deform.



3. Press the POWER ON button.

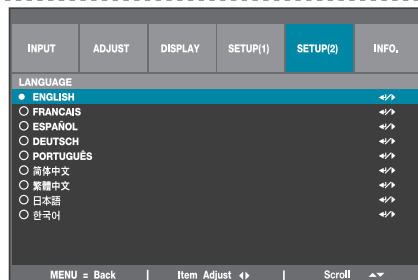
The POWER indicator changes from red to green and starts flashing. After that, the image is projected on the screen.

- When operating from the projector, press the (Ⓟ) button.



TIP:

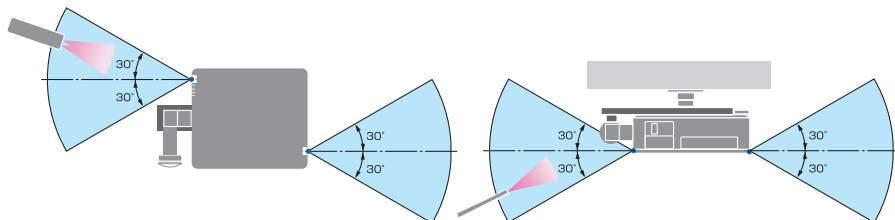
- The LANGUAGE screen is displayed when the power is turned on for the first time after purchase. Follow the operation below to select language.
- If you accidentally select a language, you can display the on-screen menu and change the language.
 - Use the ▼ and ▲ buttons to set the cursor to language.
 - Press the ENTER button.
The on-screen menu display is set to selected language, and the on-screen menu disappears.



4. Press the MENU button to display the on-screen menu.

NOTE:

- Point the remote control at the remote control sensor on the projector when operating using the remote control. Alternatively, connect a remote cable and operate it as a remote control with a cable.



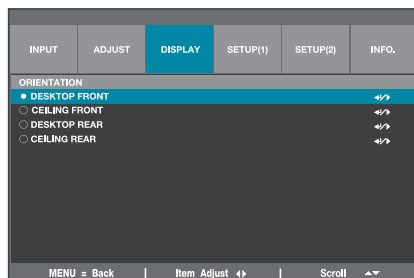
5. Select [DISPLAY] → [ORIENTATION].

[For ceiling mount]

→ Select [CEILING/FRONT], then press the ENTER button.

[For floor placement]

→ Select [DESK/FRONT], then press the ENTER button.



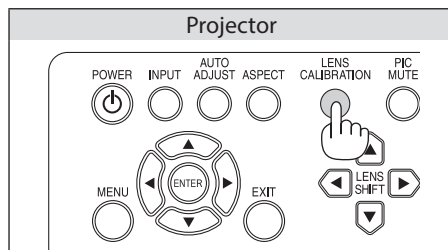
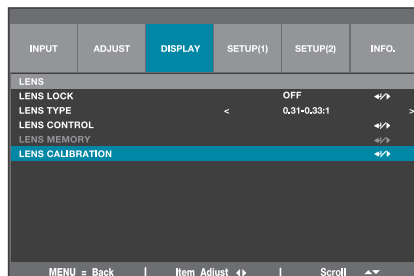
6. Select [DISPLAY] → [LENS] → [LENS CALIBRATION] in the on-screen menu, then press the ENTER button.

- When operating from the projector, press the LENS CALIBRATION button.

A confirmation message is displayed on the projected image.

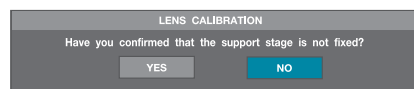
NOTE:

- Before performing lens calibration, confirm that the support stage is not secured between the lens unit and the support base (B). Executing lens calibration while the support stage is secured will cause damage.
- The state in which the support stage is not secured refers to the state satisfying all of items (1) to (4) on page 17.



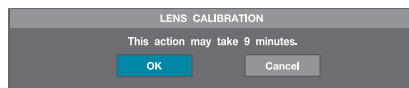
7. Use the ◀ and ▶ buttons to select [YES], then press the ENTER button.

A confirmation message is displayed.



8. Press the ENTER button.

Lens calibration starts.



It takes approximately 9 minutes for lens calibration to be completed.

Once lens calibration is finished, the message changes to “Lens calibration completed”, then the message disappears automatically.

TIP:

- A loud noise will be heard from the lens unit attachment part during lens calibration, but this is not a malfunction.

[Important]

- Please check the projector's firmware version before using this lens unit.

The firmware version to be checked is the version for “CONTROL MODULE” under “INFORMATION” → “VERSION” in the on-screen menu.

This lens unit cannot be used if the version is earlier than the ones in the table below. Please consult your dealer.



Projector model no.	Compatible versions
XP-X171Q-B/XP-X171Q-W	MM05-LDxx (with a number after MM of 05 or higher)
XP-X141Q-B/XP-X141Q-W	MM10-LDxx (with a number after MM of 10 or higher)

NOTE:

- If the firmware is not compatible with this lens unit, this will affect the operations below.
 - The image will not be projected in the orientation set at “ORIENTATION” in the on-screen menu. (Page 25)
 - The operation buttons on the projector will move in the opposite direction. (Page 26 onwards)
 - The lens calibration and lens shift confirmation messages will not be displayed. (Pages 25 and 29)

3-2. Adjusting the projection position

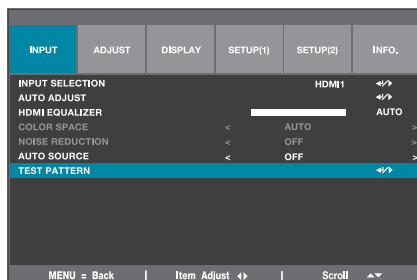
Display a test pattern and adjust the projection position using lens shift.

NOTE:

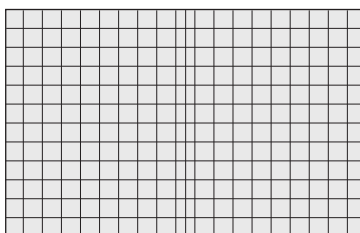
- If the projected image has keystone distortion, adjust the installation angle of the projector to eliminate the keystone distortion. (→ pages 33, 34, and 35)

1. Display the on-screen menu, select [INPUT] → [TEST PATTERN], then press the ENTER button.

The test pattern is displayed.



2. Use the ◀ and ▶ buttons to display [CROSSHATCH].



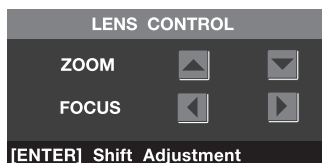
3. Temporarily adjust the zoom of the projected image and the focus near the center of the projected image.

- 1 Select "DISPLAY" → "LENS" → "LENS CONTROL" from the on-screen menu.

The lens control (Zoom/Focus) screen is displayed.

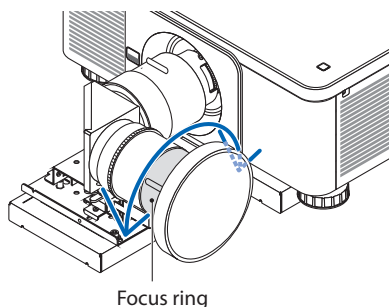
- 2 Press one of the ▲, ▼, ◀ or ▶ buttons.

Zoom	Fine-tune the screen size.
Focus	Adjust the focus near the center of the screen.



4. Temporarily adjust the focus of the entire screen using the focus ring.

- 1 Turn the focus ring on the lens unit.

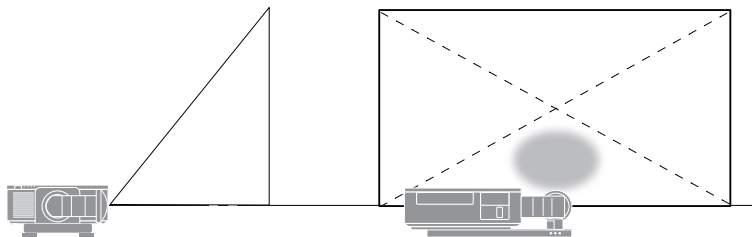


TIP:

- Adjust the focus near the center of the screen using the positions below as a guide.

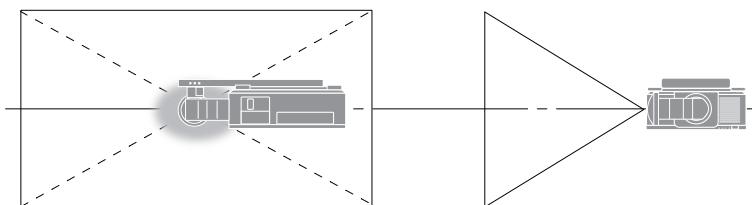
For upward projection

Adjust the focus near the area between the center of the projected image and the bottom edge of the screen.



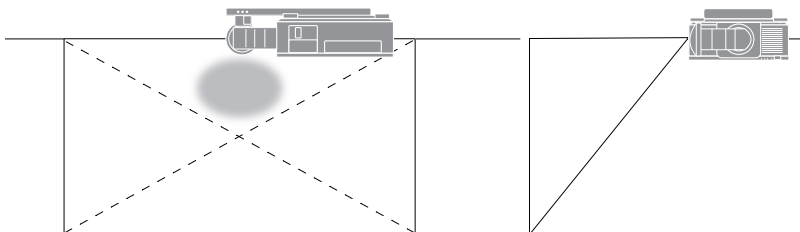
For front center projection

Adjust the focus near the center of the projected image.



For downward projection

Adjust the focus near the area between the center of the projected image and the top edge of the screen.



5. Adjust the position of the projected image. (Lens shift)

- ① Select [DISPLAY] → [LENS] → [LENS CONTROL] from the on-screen menu.

The lens control (Zoom/Focus) screen is displayed.

- ② Press the ENTER button.

A confirmation message is displayed on the projected image.

NOTE:

- Before performing lens shift, check to make sure that the support stage is not secured between the lens unit and the support base (B). Performing lens shift while the support stage is secured may cause damage.
- The state in which the support stage is not secured refers to the state satisfying all of items (1) to (4) on page 17.
- When this lens unit is attached, the projector's LENS SHIFT button cannot be used.

- ③ Use the ◀ and ▶ buttons to select [YES], then press the ENTER button.

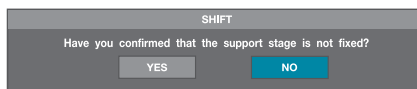
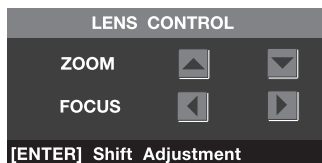
The lens control (Shift) screen is displayed.

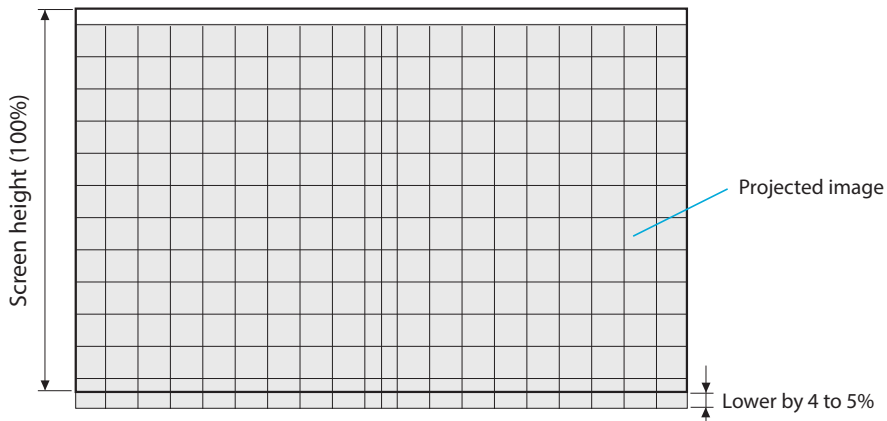
- ④ Press one of the ▲, ▼, ◀ or ▶ buttons.

Move the projected image so that it is 4 to 5% below the screen. (50 to 60% of one square of the test pattern)

NOTE:

- Some time is required for lens shift to start. Continue pressing the button until lens shift starts.







TIP:

- The screen switches between the lens control "Zoom/Focus" screen and "Shift" screen when the ENTER button is pressed.



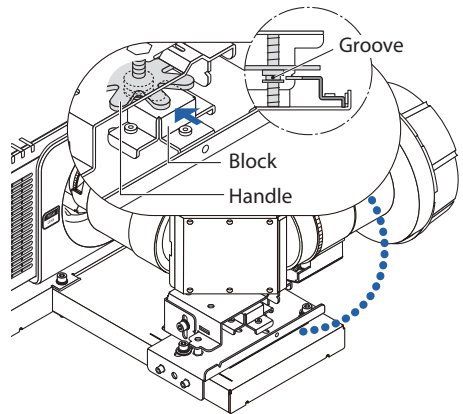
3-3. Adjusting the tilt and distortion of the projected image

WARNING

- Do not perform adjustment work while standing between the screen and the lens. Intense light from the lens could enter your eyes and cause vision damage.
- If you must work between the screen and the lens, use the shutter function to temporarily turn off the projected light.
 - To enable the shutter function, press the SHUTTER CLOSE () button on the remote control.
 - To cancel the shutter function, press the SHUTTER OPEN () button on the remote control.

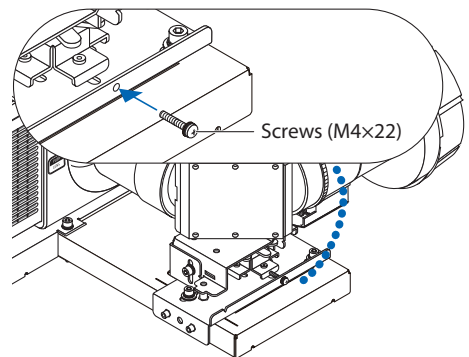
1. Hook the pulled-out block into the groove at the base of the screw on the flower-shaped handle.

- Turn the flower-shaped handle to move its screw toward the support base side until the groove at the base of the screw hooks onto the block.
- For floor installation, refer to step ④ on page 19.
- For installations other than floor installation, refer to step 1 on page 20.



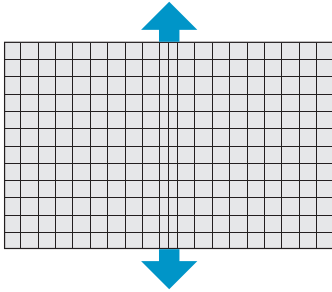
2. Insert the removed screws (M4×22) into their original positions and tighten them.

- Secure the block.
- For floor installation, refer to step ④ on page 19.
- For installations other than floor installation, refer to step 1 on page 20.



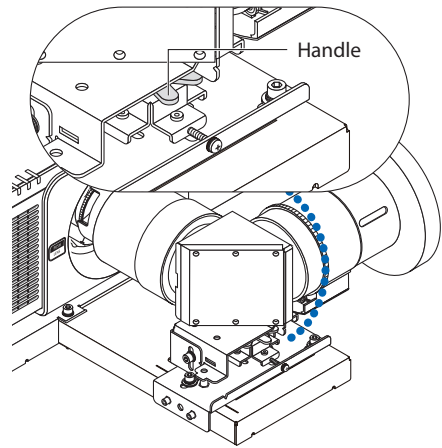
3. Turn the flower-shaped handle located within the support stage.

The projected image moves up and down. Adjust it to the height of the screen.



4. Adjust the focus and the focus of the screen corners.

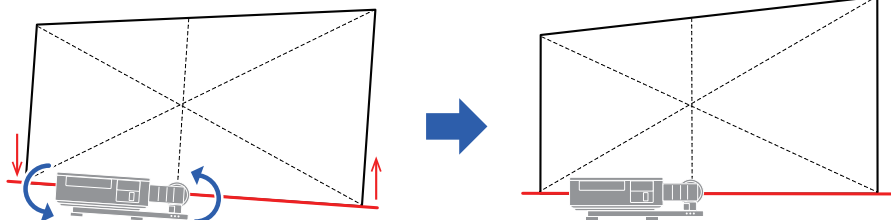
See page 27 for instructions on adjusting the focus and the focus of the screen corners.



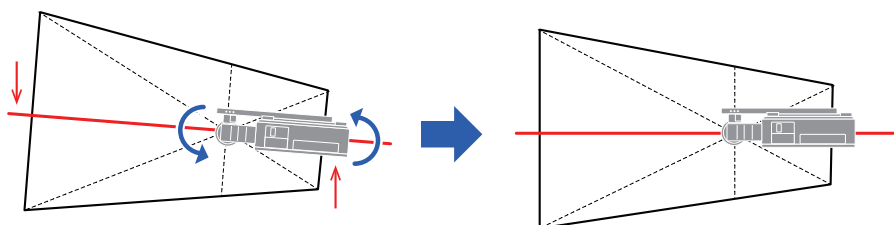
5. Adjust the tilt of the screen.

- On the projected image, use a horizontal line that is at the same height as the center of the projection lens as a guide.
- Rotate and adjust the entire projector so that the horizontal line becomes level.

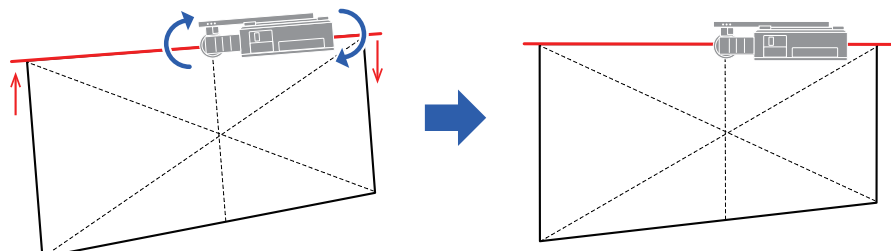
For upward projection



For front center projection

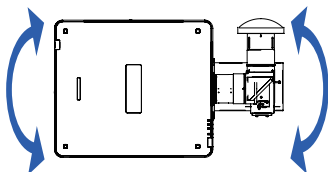


For downward projection

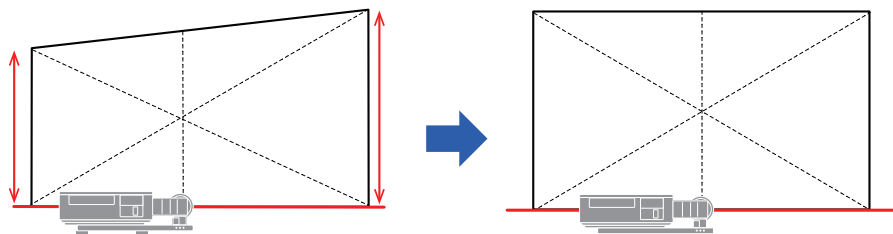


6. Adjust the picture's keystone distortion. (When the heights of the left and right sides are different)

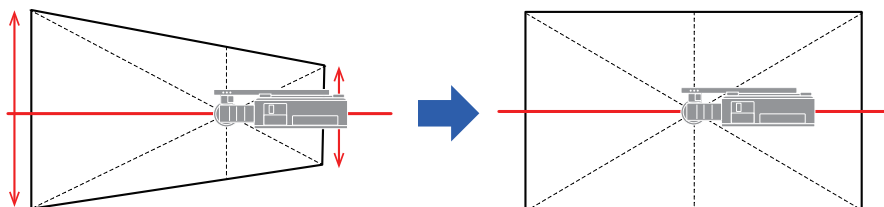
- Adjust the horizontal tilt of the projector body so that the left and right heights of the projected image are the same.



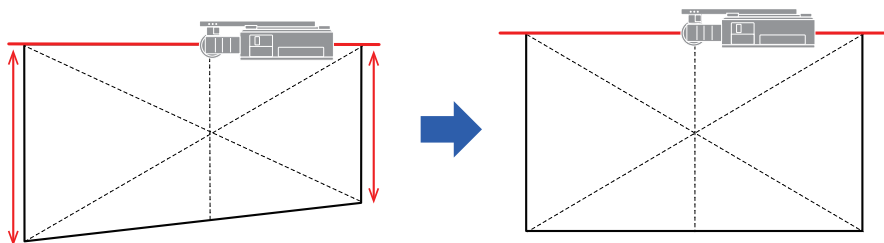
For upward projection



For front center projection

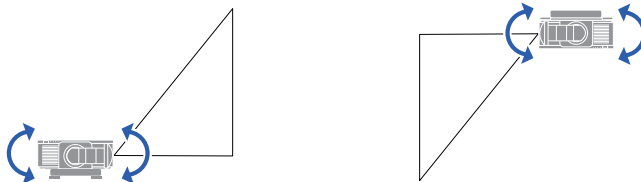


For downward projection

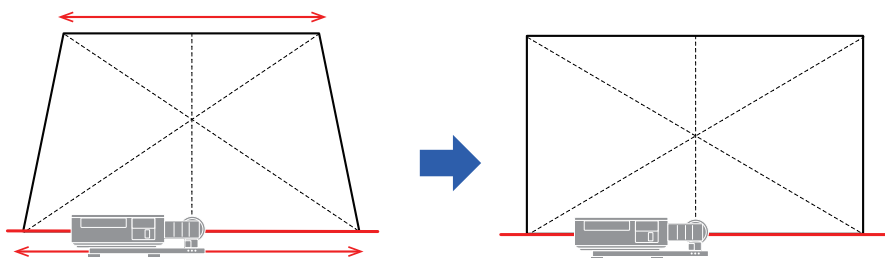


7. Adjust the picture's keystone distortion. (When the lengths of the upper and lower edges are different)

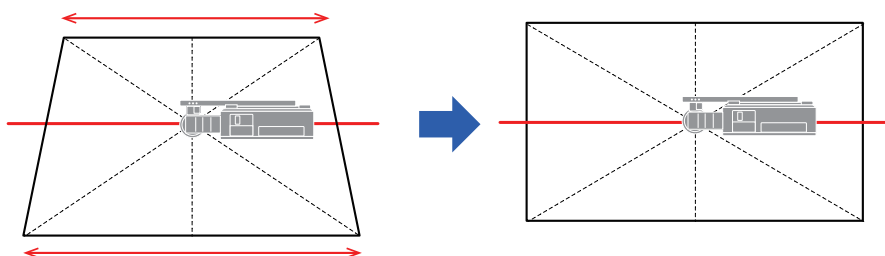
- Adjust the vertical tilt of the projector body so that the lengths of the upper and lower edges of the projected image are the same.



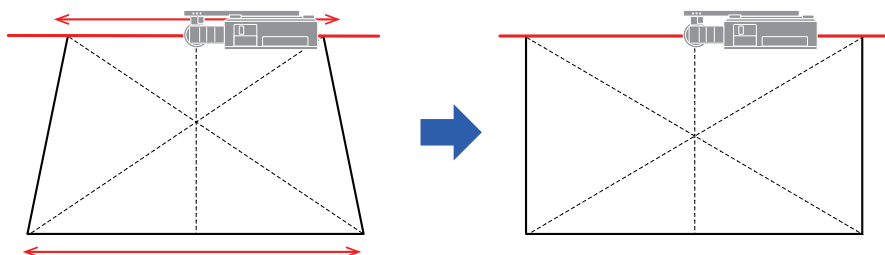
For upward projection



For front center projection



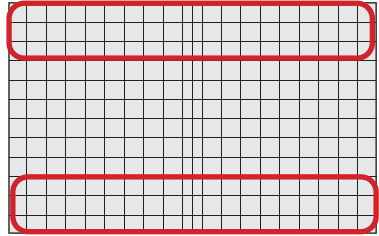
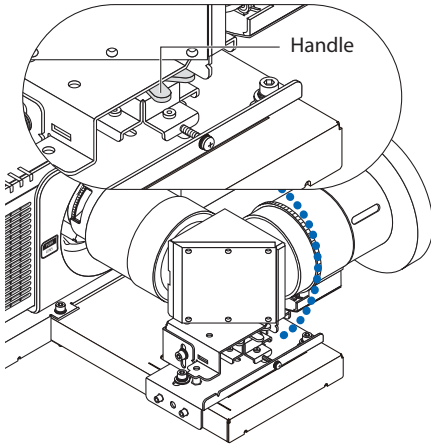
For downward projection



3-4. Adjusting the focus

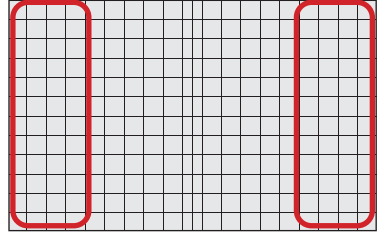
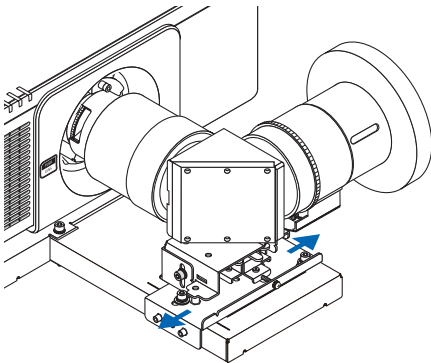
(1) To balance the focus between the top and bottom of the projected image

- Rotate the flower-shaped handle located within the support stage to balance the focus between the top and bottom.



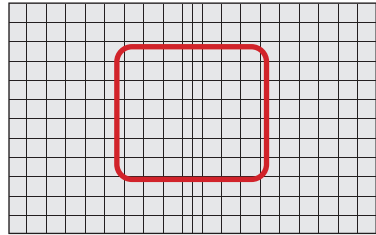
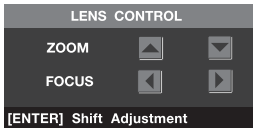
(2) To balance the focus between the left and right of the projected image

- Move the support stage in the direction of the arrow to balance the focus between the left and right of the projected image.



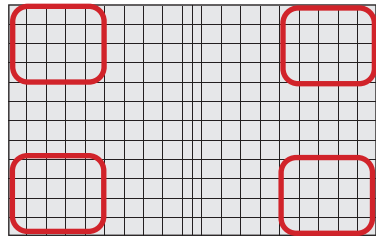
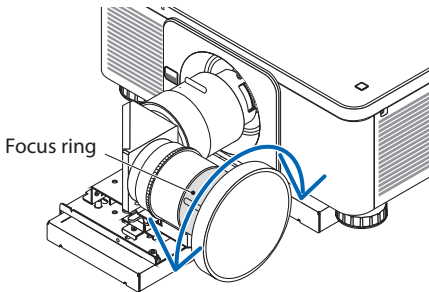
(3) To adjust the focus near the center of the projected image

- Display the lens control screen using the remote control or the operation buttons on the projector and adjust the focus.



(4) To balance the focus of the corners of the projected image

- Rotate the focus ring on the lens unit.

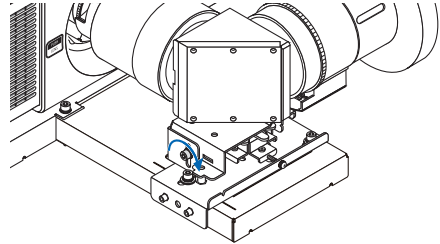


NOTE:

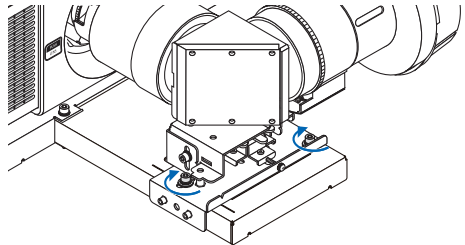
- Repeat the focus adjustment for the top, bottom, left, right, center and corners of the projected image until the focus of the entire screen reaches the optimal state.

3-5. Securing the support stage

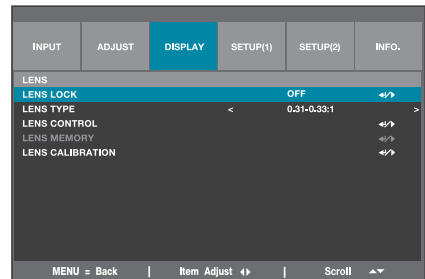
1. Tighten the left and right screws of the support stage.



2. Tighten the three screws that were temporarily fastened to support base (B) in step 5 on page 22.



3. Select [DISPLAY] → [LENS] → [LENS LOCK] from the on-screen menu, and then press the ENTER button.



4. Use the ▲ and ▼ buttons to select [ON], then press the ENTER button.

When Lens Lock is turned on, use of zoom/focus adjustment, lens shift and lens calibration functions is prohibited.

[Important]

- Set [LENS LOCK] to [OFF] when fine-tuning the zoom/focus adjustment or lens shift.
- Make sure that the support stage is not secured when adjusting the lens shift function to adjust the position of the projected image. If the support stage is secured, the projector or lens unit will be damaged.
- The state in which the support stage is not secured refers to a state that satisfies all of conditions (1) to (4) on page 17.
- Only when adjusting the horizontal position of the projected image with the projector mounted on the ceiling, fine-tuning of the lens shift is possible if the five screws securing the support stage are loosened and the bracket and adjustment bolts are not installed.

TIP:

For ceiling projection, floor projection and portrait projection

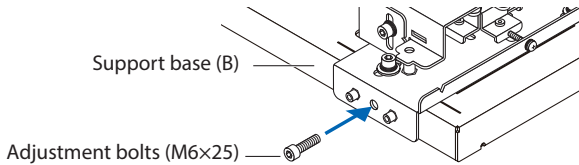


- When performing ceiling projection, floor projection or portrait projection, install the bracket to support base (B) in order to fine-tune the position of the projected image.

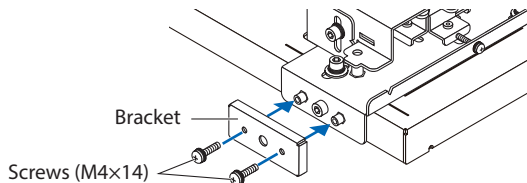
⚠ CAUTION

- Do not touch, tighten, loosen or remove any screws other than those shown in the diagram.

- ① Loosen the three screws securing the support stage to the support base (B) until they can be turned by hand.
- ② Temporarily tighten the adjustment bolt (M6 × 25) to the support base (B).

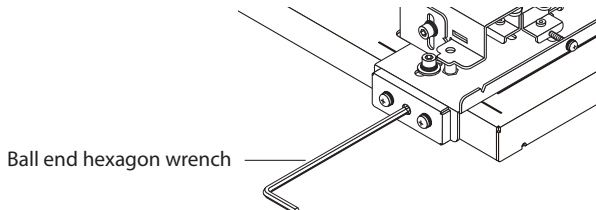


- ③ Attach the bracket to the support base (B) and tighten with two screws (M4×14).

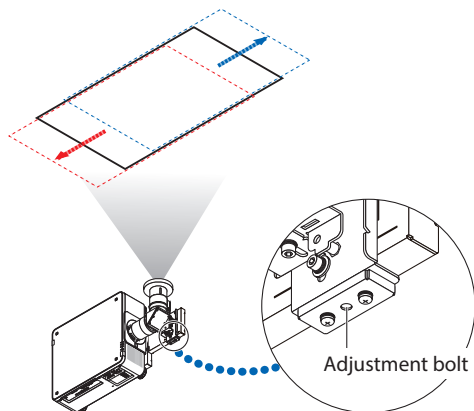


- ④ Insert the ball end hexagon wrench screwdriver into the bracket's center hole and turn the adjustment bolt.

Fine-tune the position of the projected image.








Projecting onto the ceiling's image



TIP:

Removing the support stage

For floor placement					
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- ① Turn off the projector's power.
- ② Loosen the three screws securing the support stage to support base (B) until they can be turned by hand.
- ③ Loosen the two screws on the left and right of the support stage until they can be turned by hand.
- ④ Leave the flower-shaped handle caught in the block.
- ⑤ Rotate the flower-shaped handle to move the support stage away from support base (B).
- ⑥ Remove the support stage from support base (B).

If the support stage is difficult to remove, lift the lens unit slightly.

For installation positions other than floor placement					
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- ① Turn off the projector's power.
- ② Loosen the two screws on the left and right of the support stage until they can be turned by hand.
- ③ Remove the three screws securing the support stage to support base (B).
- ④ Move the bottom parts of the support stage to minimize the support stage's height.
- ⑤ Remove the support stage from support base (B).

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