EPSON®

EMP-835/830

Quick Reference Guide

Be sure to read the User's Guide carefully before using the projector.

WARNING

Do not look directly into the projector's lens.

3LCD

Setup

Set up the projector so that the distance from the screen to the projector's lens is 86–1473 cm (2.8–48.3 ft.). The shorter the distance between the two, the smaller the image will be, and the greater the distance, the larger the image will be. Adjust the distance in accordance with the size of the screen.

☞ User's Guide "Screen Size and Projection Distance"

Connections

Be sure to turn the power off for all components before making any of the following connections.

☞ User's Guide "Connecting to a Computer" "Connecting to a Video Source"
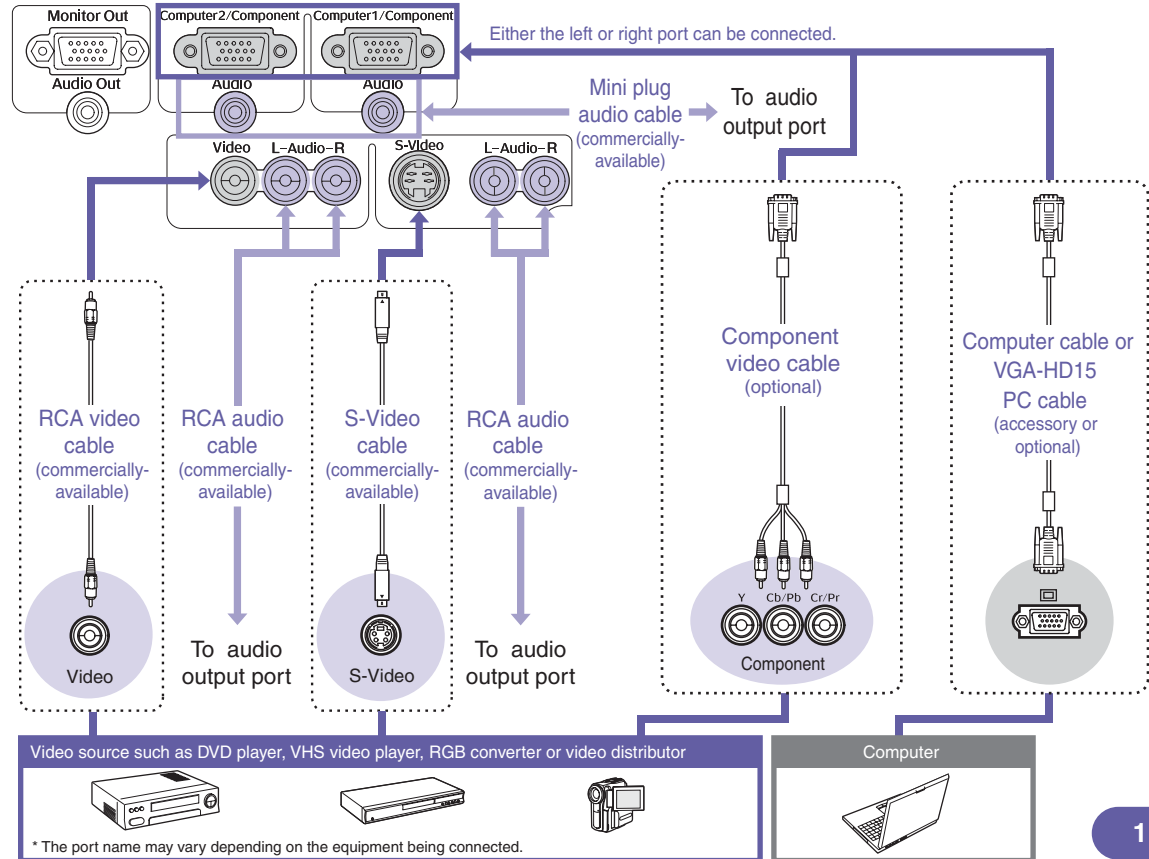
When connecting to a computer or video source

The [Audio] port to use is the port that is in the same box as the port being used to input the image signals.

However, if component video signals are being input from a DVD player or some other equipment to the [Computer1 (or2)/Component] port, you can use either of the two types of audio input ports shown below depending on the audio cable type you use.
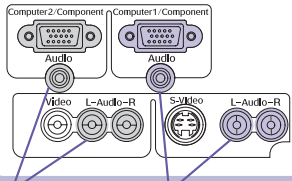
When connecting to the [Computer2/Component] port

When connecting to the [Computer1/Component] port

Monitor Out
Audio Out
Computer2/Component
Computer1/Component
Audio
Audio
Video L-Audio-R
S-Video L-Audio-R

Either the left or right port can be connected.

Mini plug audio cable (commercially-available) → To audio output port

RCA video cable (commercially-available)

Video

RCA audio cable (commercially-available)

To audio output port

S-Video cable (commercially-available)

S-Video

RCA audio cable (commercially-available)

To audio output port

Component video cable (optional)

Y Cb/Pb Cr/Pr
Component

Computer cable or VGA-HD15 PC cable (accessory or optional)

Video source such as DVD player, VHS video player, RGB converter or video distributor

Computer

* The port name may vary depending on the equipment being connected.

1

When connecting to a computer via a network (EMP-835 only)

When connecting in easy connect mode

When connecting in access point mode

When connecting using a wired LAN

Built-in wireless LAN function or wireless LAN card

Built-in wireless LAN function or wireless LAN card

● Network cable (100baseTX or 10baseT)

Access point

LAN

Wireless LAN card (accessory)

Wireless LAN card (accessory)
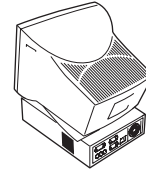
● Network cable (100baseTX or 10baseT)

⚠ To prevent the possibility of incorrect operation, you should use a Category 5 shielded network cable.

▲ Card slot
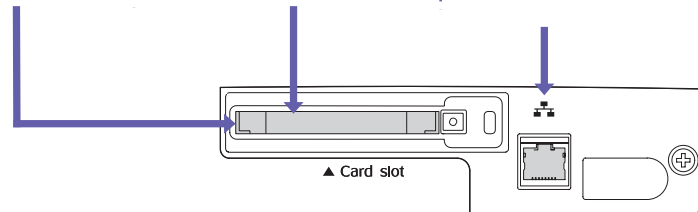
Projector Preparation and Adjustments

1 **Connect the power cable to the projector and to an electrical outlet.**
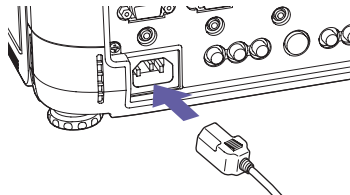
● Place your fingers against the [▷] and [◁] on the lens cover and press in while pulling the lens cover forward to remove it.

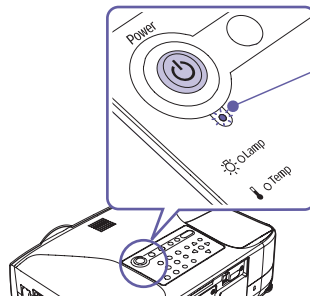● To use the remote control, set the [R/C] switch to "ON".

2 **Press ⏻ .**

Power

Simple!

When "Direct Power ON" is set to "ON", the power will turn on when the power cable is connected, without the need to press ⏻ .
☞ User's Guide "List of Configuration Menu Commands"

A beep will sound and the Power indicator will switch to flashing green.

Power indicator

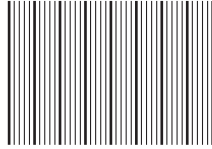Flashing green (warm-up in progress/approx. 30 seconds) → Lit green

● ⏻ will not work while warm-up is in progress.
● If Password Protect has been enabled, the password entry screen will be displayed. Enter the password.
☞ User's Guide "Preventing Theft (Password Protect)"

3 Turn on the power for the input source.

Source Search

4 Press ◯.

For video equipment, press the [Play] button.

(While automatic focus is running)

When projection starts, the automatic focus function will operate to automatically adjust the focus of the projected images.
A screen such as the one shown left will appear while adjustment is in progress, but this is normal.

Power
Quick Setup Source Search   Zoom
W T
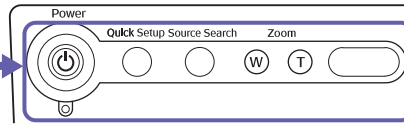
If necessary, press Ⓦ and Ⓣ zoom buttons to make fine adjustments to the image size.
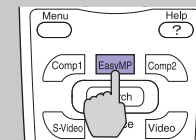When Quick Setup is run, the images are adjusted at a single touch so that they fit the screen area exactly. ☛p.7

Power
Quick Setup Source Search   Zoom
W T

Source Search
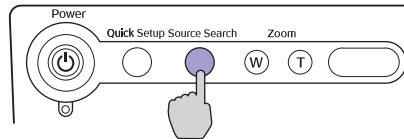
If the desired images are not projected, press ◯ once more.

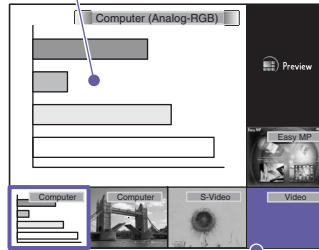If using the EMP-835 and the projector does not switch to EasyMP, press EasyMP .

Menu   Help
                 ?
Comp1 EasyMP Comp2

S-Video   Video

To switch using the remote control...	Press (Search).

To select images to be projected while viewing all images being input... (Preview Function)

Active window

Computer (Analog-RGB)

Preview

Easy MP

Computer   Computer   S-Video   Video

Move the cursor to the desired image.

If no signal is input, the window will appear blue.

EasyMP is only displayed when using the EMP-835.

1. Press (7).   *Preview*

> If you use any buttons to switch the input source, the preview window will close and the selected images will be projected.

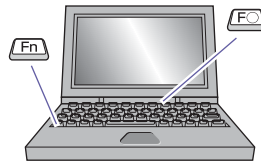2. To view details of the image, switch to the active window.

Tilt ( ) to select an image and then press (Enter).

3. Project the images in the active window.

Press (Enter).

☞ User's Guide "Selecting an Image Source While Viewing Projected Images (Preview Function)"

If the source does not change to the laptop PC connected by a computer cable...

Fn   F▢

You may need to switch the output source on the computer.
Hold down the (Fn) key and press the (F▢) key (with a symbol such as ▢ or ▱ on it).
Once the setting is changed, projection will start after a short period.

Examples of changing output	
NEC	Fn + F3
Panasonic	
TOSHIBA	Fn + F5
IBM	Fn + F7
SONY	
FUJITSU	Fn + F10
Macintosh	Set mirror setting or display detection.

☞ Computer documentation

> If images are not projected even after carrying out the above, press (?) on the remote control. Interactive help will be displayed. You can then answer the questions to obtain the optimum settings.   *Help*

```
[Help Menu]

 Help for the image ↵
 Help for the sound

 Language change (Language)

 Select the relevant item, then confirm or modify settings and
 connections.

[◆]:Select [Enter]:Enter                    [Help]:Exit
```

Adjusting projected images

(If setting up the projector for the first time or after moving it)
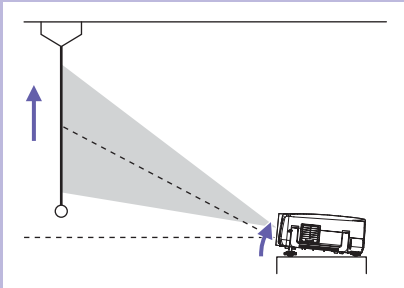
Adjusting the projection angle
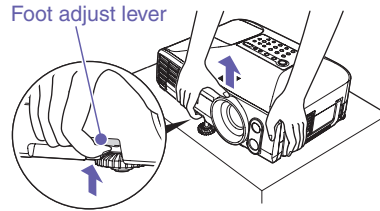
Foot adjust lever

While pulling the foot adjust lever, lift up the front of the projector so that the front adjustable foot can extend. The Auto "V-Keystone" function will operate when the projector is tilted.

To retract the front adjustable foot, gently push down on the projector while pulling the foot adjust lever.

- If tilted horizontally, adjust using the left and right rear adjustable feet.

Rear adjustable foot

Extend   Retract
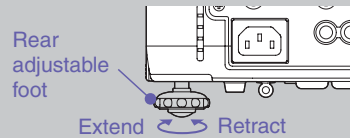
- If the height of the images is reduced after vertical keystone correction, run Quick Setup as described on the next page, or adjust the height manually using the following procedure. For adjustment using the configuration menus: "Setting" - "Keystone" -"H/V-Keystone" - "Horz./Vert./Height" - "Height"
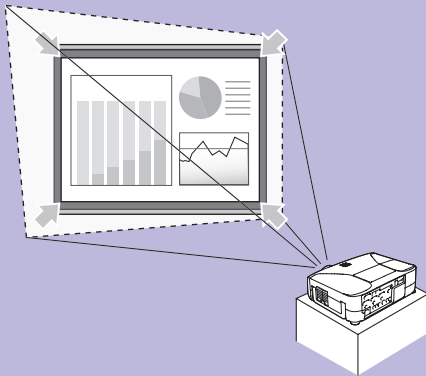
Attractive images easily, at a single touch

The following adjustments are carried out automatically at a single touch.
- Focus adjustment (Automatic Focus)
- Keystone correction (Auto Quick Corner)

  This automatically corrects distortion of the projection area that occurs when the projector is tilted, so that images are projected at an aspect ratio of 4:3. If using a screen (4:3) for projection, this function can be used so that the projection area exactly fits the size of the screen.

1. Press **Quick Setup** .

"The Quick Setup is in preparation." will be displayed.
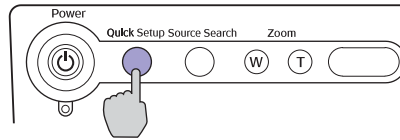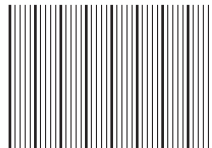
If projecting onto a screen, whiteboard or blackboard, adjust the projection area so that it fits within the edges of the screen or board. Be sure to adjust so that the top edge of the screen is inside the projection area. If projecting onto a wall or other surface, adjust the projection area to the desired position and size.

Borders

Projection area

2. Press **Quick Setup** once more.

Adjustment of the projection area will start. While the adjustment is in progress, the screens left will be displayed to measure conditions of the projection surface.

(While automatic focus is running)
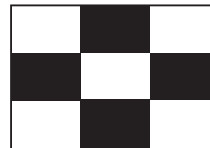
(While Auto Quick Corner is running)

Simple!

Focusing and keystone correction will be complete after Quick Setup is pressed.
You can also use this function together with the Wall Shot function.

☞**User's Guide**
   "List of Configuration Menu Commands"

7

The followings show how the projection area is adjusted by the Auto Quick Corner.

Before

After

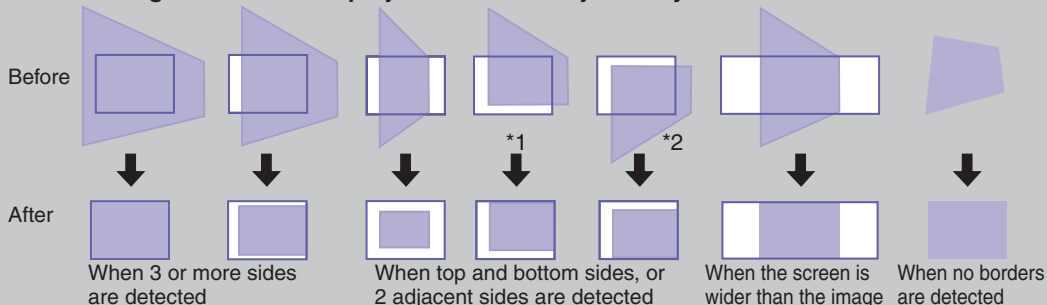When 3 or more sides are detected   When top and bottom sides, or 2 adjacent sides are detected   When the screen is wider than the image   When no borders are detected

*1   *2

The Auto Quick Corner works properly by doing the following beforehand.

*1 When the "Projection" menu is set to "Front", adjust the projection area so that the top edge of the screen frame is inside the area.

*2 When the "Projection" menu is set to "Front/Ceiling", adjust the projection area so that the bottom edge of the screen frame is inside the area.
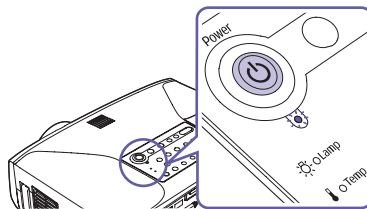
Turning the Projector Off

☛User's Guide "Turning the Projector Off"

1   **Turn off the equipment that is connected to the projector.**

2   **Press 🔘 twice to turn the projector's power off.**

Simple!

 "Direct Power OFF" function lets you turn the power off by a circuit breaker or by disconnecting the power cable without pressing 🔘.

- If the message "The projector is overheating. Clean or replace the air filter and lower the room temperature." appears during projection of images, press Enter to turn the power off and then clean or replace the air filters.
☛ User's Guide "Cleaning the Air Filters and Air Intake Vent" "Replacing the Air Filters"
- Set the remote control [R/C] switch to "OFF" after use. The battery life will be reduced if it is left "ON" unnecessarily.

After using the projector, you can disconnect the power cable and move the projector straight away.

Useful Functions

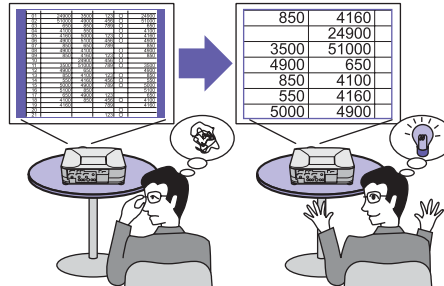## Projecting onto Black Board or Wall

● Wall Shot ☞ p.10

• Adjusts images to their natural colours
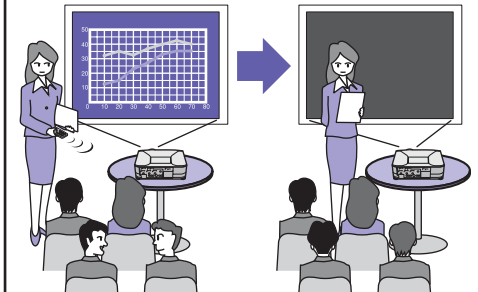
Enlarging a Portion of Image

● E-Zoom ☞ p.11

• Detailed diagrams, or small print are easily viewable by enlarging them

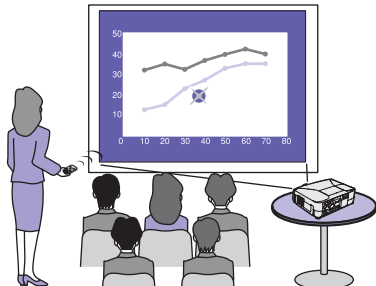## Pausing Images and Sound Momentarily

● A/V Mute ☞ p.10

• Let attendances concentrate on your conversation by stopping projection momentarily
• Pause projection while switching files

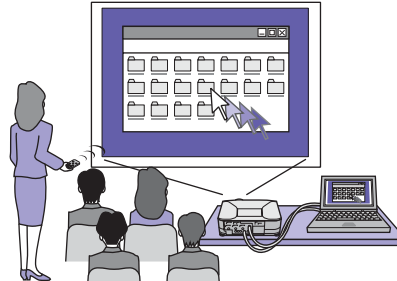## Indicating a Part of Image to Explain

● Pointer ☞ p.11

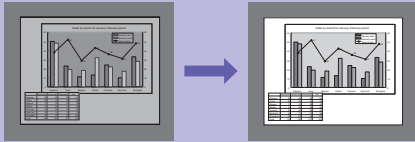• Make clear which part of the image is explained, or bring a part to everyone's attention

Giving a Presentation without a Mouse
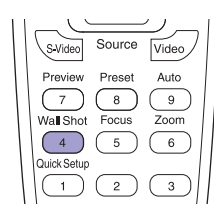
● Wireless Mouse ☞ p.12

• Control a mouse pointer from a place away from the computer using the remote control

If projecting onto a blackboard or wall

■ Wall Shot function

This automatically adjusts the image colours so that natural colours can be obtained even when the projection area is not white in colour or if the screen is near a bright place such as a window.

1. Press ⁴(Wall Shot).

   The current status is displayed on the screen.

2. Press ⁴(Wall Shot) while the status is displayed to change it to "Wall Shot ON".

   Colours in the order red → green → blue → black will be projected for approximately five seconds, and then the corrected images will be displayed.

   ☞ User's Guide "Projecting Easy-to-see Images Without a Screen (Wall Shot)"

When the projector's power is turned off, images will be projected next time with the status set to "Wall Shot OFF". If projecting in the same location as before, press ⁴(Wall Shot) twice, you can project images using the previous adjustment values without needing to repeat the measurements. The status will change in the order "Wall Shot OFF" → "Wall Shot ON" → "Wall Shot Memory Call" each time ⁴(Wall Shot) is pressed.

Temporarily turning off images and sound
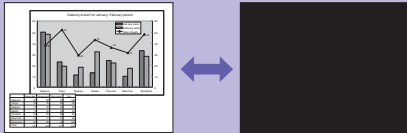
■ A/V Mute function

Use this function when you would like to momentarily stop viewing the images being projected, such as if you would like to talk briefly or to switch the file being projected.
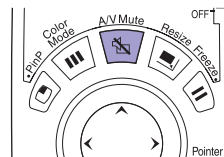
Press (A/V Mute).

The images and sound are turned off (A/V mute active).

Press (A/V Mute) once more.

The A/V mute is cancelled.

☞ User's Guide "A/V Mute Function"

● If you use this function when projecting moving images, the images and sound will still continue to be played back by the source, and you cannot return to the point where the A/V mute function was activated.
● The screen that is displayed while the A/V mute function is active can be set to a black or blue screen or a user's logo using "Extended" - "Display" - "A/V Mute" in the configuration menu.

Enlarging part of a projected image
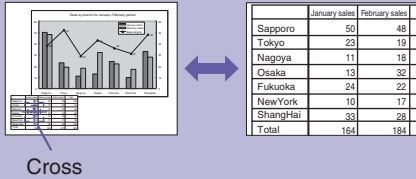
Cross

■ E-Zoom function

Use when you would like to enlarge part of a graph or table to view it.
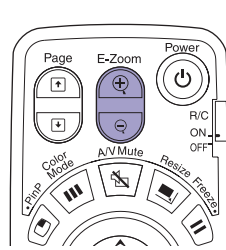
1. Press ⊕ (E-Zoom).

   A cursor (cross) will appear on the screen.

2. Move the cross to the area of the image that is to be enlarged.

   Tilt ◯.

3. To enlarge: Press ⊕ (E-Zoom).
   To reduce the enlarged area size: Press ⊖.

   Press Esc to cancel.

☞ User's Guide "E-Zoom Function"

Indicating part of an image
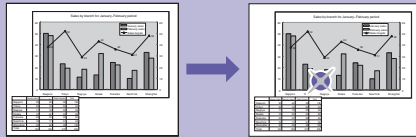
■ Pointer function

You can use a pointer to indicate important parts of an image, or bring a part to everyone's attention.
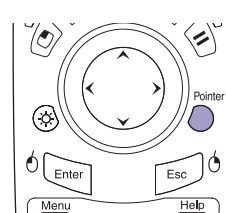
1. Press ◯ (Pointer).

   A Pointer will be displayed.

2. Tilt ◯ to move the pointer.

   Press ◯ (Pointer) to cancel. The pointer will disappear.

You can use the "Setting" - "Pointer" setting in the configuration menu to set the type and size and the movement speed for the pointer. ☞ User's Guide "Pointer Function"

Operating the mouse pointer using the remote control

Accessory USB cable

To use the wireless mouse function, you need to connect the computer using a USB cable in addition to the computer cable.
Use the accessory USB cable to connect the USB port of a computer to the projector's [USB TypeB] port.

■ Wireless mouse function

When computer images are being projected, you can use the accessory remote control to operate the computer's mouse pointer.

Moving the mouse pointer

Mouse clicks

Left click   Right click
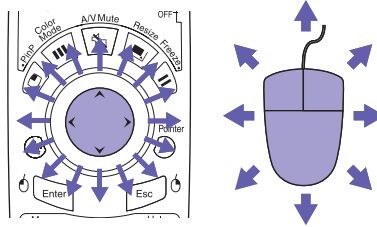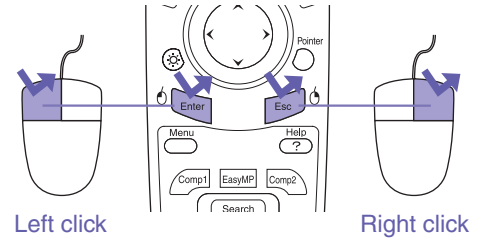
Double-click: Press twice in rapid succession.

Drag and drop

1. Hold down 🖰 Enter for approx. 1.5 seconds.
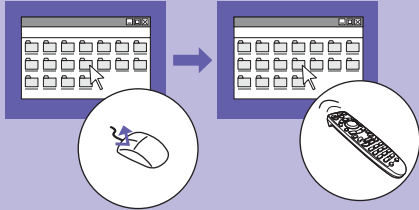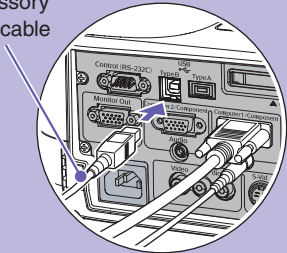   🖰 Enter lights and drag and drop mode is enabled.
2. Tilt 🔘 to drag an item.
3. Press 🖰 Enter to drop the item.

You can also drag and drop in the same way using Esc 🖰.

This is useful for displaying the previous or next slide in a PowerPoint slideshow.

To previous slide
To next slide
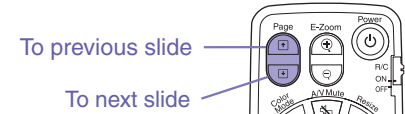
The wireless mouse function may not work on some operating system versions or with some functions.
☞ User's Guide
   "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse Function)"

List of Configuration Menu Commands

User's Guide
"List of Configuration Menu Commands"

Main menu   Sub-menu


```
Image          ◆          Return
Signal         ○Color Mode      Presentation
Setting        ○Brightness      0
Extended       ○Contrast        Auto
               ○Sharpness       0
Info           ○Color Adjustment
Reset          ○Reset

[◆]:Select [Enter]:Enter              [Menu]:Exit
```

Press ⬚ to display the configuration menu. The configuration menu lets you make settings such as startup operations and brightness and tint adjustments.

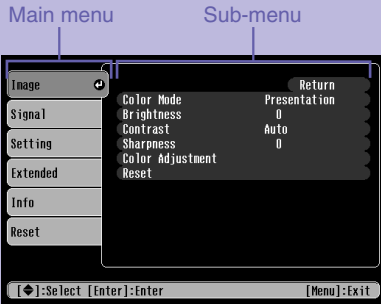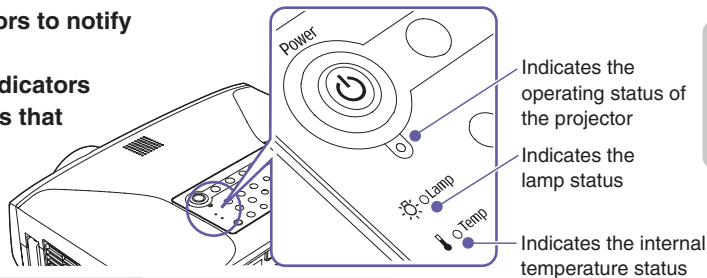| Image	During computer input or EasyMP (EMP-835 only)	During component video input During S-Video or composite video input
	Color Mode	Color Mode
	Brightness	Brightness
	Contrast	Contrast
	Sharpness	Color Intensity
	Color Adjustment	Tint
	Reset	Sharpness
		Color Adjustment
		Reset

Setting
Quick Setup
Keystone
Operation Lock
Pointer
Brightness Control
PinP Options
Audio
Reset

Signal	During computer input	During component video input	During S-Video or composite video input
	Auto Setup	Position	Position
	Resolution	Progressive	Progressive
	Tracking	Computer1 Input	Video Signal
	Sync.	Computer2 Input	Reset
	Position	Reset	
	Preset		
	Computer1 Input		
	Computer2 Input		
	Reset		

Extended
Display
User's Logo
Projector ID
Projection
Operation
Network*
Standby Mode
COM Port
Language
Reset

Info	During computer or component video input	During S-Video or composite video input	EasyMP (EMP-835 only)
	Lamp Hours (High Brightness) (Low Brightness)	Lamp Hours (High Brightness) (Low Brightness)	Lamp Hours (High Brightness) (Low Brightness)
	Source	Source	Source
	Input Signal	Video Signal	
	Resolution		
	Refresh Rate		
	Sync Info		

Reset
All Reset
Lamp-Hours Reset

*EMP-830 only

Reading the Indicators

The projector is provided with indicators to notify you of the projector operating status.
The following tables show what the indicators mean and how to remedy the problems that they indicate.
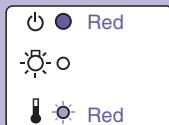
Indicates the operating status of the projector

Indicates the lamp status

Indicates the internal temperature status

If all indicators are switched off, check that the power cable is connected correctly and that power is being supplied normally.

## When the Power indicator is lit/flashing red | Problem/Warning

● lit   ☀ flashing   ○ off
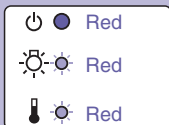
⏻ ● Red ☀ ☀ Red 🌡 ☀ Red	⏻ ● Red ☀ ○ 🌡 ☀ Red	⚠ Disconnect the power cable from the electrical outlet. Then contact your dealer or the nearest address provided in the "International Warranty Conditions" section of the *Safety Instructions/World-Wide Warranty Terms* booklet.
Internal error	**Fan related error/ Sensor error**	
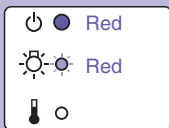
⏻ ● Red ☀ ☀ Red 🌡 ○		⚠ Check if the lamp is broken. Disconnect the power plug from the electrical outlet and wait for the lamp to cool down sufficiently (takes about one hour) before checking. ☞ p.16
Lamp open error **Lamp timer failure** **Lamp out** **Lamp cover is open**		

If the lamp is not broken

Replace the lamp and then turn the power on. ➔ If the lamp still does not turn on, replace it with a new lamp. ➔ If the problem is still not solved after the lamp is replaced, stop using the projector and disconnect the power cable from the electrical outlet. Then contact your dealer or the nearest address provided in the "International Warranty Conditions" section of the *Safety Instructions/World-Wide Warranty Terms* booklet.

If the lamp is broken

Contact your local dealer for further advice.

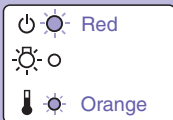| Indicator	Status	Description
⏻ ● Red ☀ ○ 🌡 ● Red	**Internal temperature error (overheating)**	**(!)** **The lamp will switch off automatically and projection will stop.** **Wait for approximately 5 minutes.** **Then disconnect the power cable and check the points to the right.**
⏻ ⛯ Red ☀ ○ 🌡 ⛯ Orange	**High-speed cooling in progress**	**(!)** **If you continue using the projector and the temperature rises again, the lamp will switch off automatically.** **Check the points to the right.**

- If the projector is close to a wall, move it away from the wall.
- Clean the air filters if they are blocked.

If the problem is not fixed, stop using the projector and disconnect the power plug from the electrical outlet.
Then contact your dealer or the nearest address provided in the "International Warranty Conditions" section of the *Safety Instructions/World-Wide Warranty Terms* booklet.

If the Lamp indicator is flashing orange   Warning

● lit   ⛯ flashing   ○ off
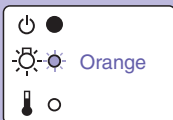
Indicator	Status	Description
⏻ ● ☀ ⛯ Orange 🌡 ○	**Lamp replacement notification**	**(!)** **The lamp is near the end of its operating life. Replace the lamp with a new one as soon as possible.** **If you continue to use the old lamp, the possibility that the lamp may break will increase.** ☞ **p.16**

Power Indicator is lit or flashing green or orange   Normal

● lit   ⛯ flashing   ○ off

| Indicator	Status	Description
⏻ ● Orange ☀ ○ 🌡 ○	**Standby condition**	**Press (⏻) , and projection will soon start.**
⏻ ⛯ Green ☀ ○ 🌡 ○	**Warm-up in progress**	The warm-up time is approximately 30 seconds. **Do not unplug the power cable or turn off the breaker (direct power off) while warm-up is in progress. Doing so may cause an early deterioration of the lamp. For the same reason, (⏻) will not work while warm-up is in progress.**
⏻ ● Green ☀ ○ 🌡 ○	**Projection in progress**	Normal operation is in progress.

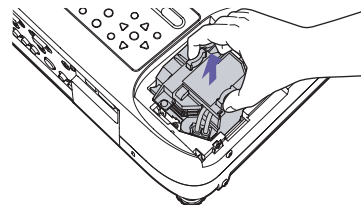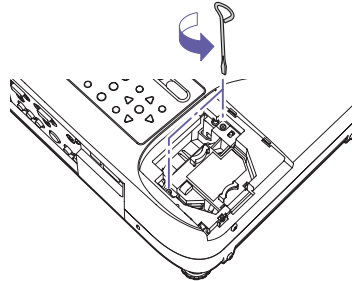# Replacing the Lamp

How to replace the lamp

1 **Disconnect the power cable.**

2 **Remove the lamp cover at the side of the projector.**

3 **Loosen the two lamp fixing screws.**

4 **Hold the knob and pull out the old lamp.**

Use the screwdriver that is supplied with the spare lamp or your own cross head screwdriver.
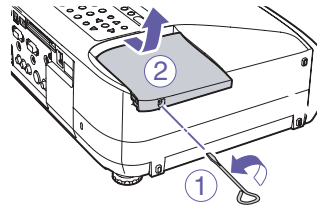
Remove the cover when the projector has sufficiently cooled down. It takes about one hour after the power is turned off for the lamp to become sufficiently cool.
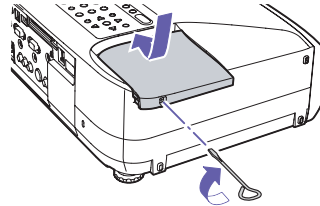
① Loosen the lamp cover fixing screw.

② Slide the lamp cover straight out, and then lift it up to remove it.

5 **Install the new lamp.**
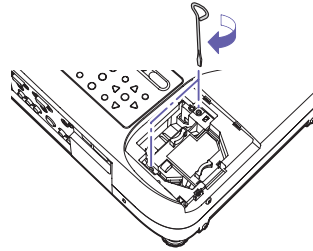
Holding the lamp facing the correct way, insert the lamp until it clicks into place then tighten the two fixing screws.

Slide the cover back to its original position and then tighten the lamp cover fixing screw at the side of the projector.

6 **Install the lamp cover.**

- Install the lamp securely. If the lamp cover is removed, the lamp turns off automatically as a safety precaution. Moreover, the lamp will not turn on if the lamp or the lamp cover is not installed correctly.
- This product includes a lamp component that contains mercury (Hg). Please consult your state and local regurations regarding disposal or recycling. Do not put in the trash.

Reset the lamp operating time as described in the following section.

Resetting the lamp operating time

After replacing the lamp, be sure to reset the lamp operating time from the configuration menu.

Do not reset the lamp operating time except after the lamp has been replaced. If you do, the lamp operating time will no longer be displayed correctly.

1. Press Menu .
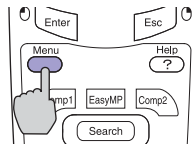
   The configuration menu is displayed.

2. Select "Reset" - "Lamp-Hours Reset" and press Enter .

3. Select "Yes" then press Enter .

   The lamp operating time is reset.

```
[Reset]
Execute?

        Yes ⏎        No

[Esc]:Return [◆]:Select [Enter]:Execute      [Menu]:Exit
```

Contents of the Manuals on the Document CD-ROM

The manuals on the Document CD-ROM have the following contents.

Names and Functions of the Main Remote Control Buttons

[E-Zoom] buttons

[⊕] : Enlarges the image without changing the projection area size.
[⊖] : Reduces images that have been enlarged using [⊕].

[Page] buttons

[⬆][⬇] : Let you switch to the previous or next slide in a PowerPoint slideshow while using the wireless mouse function or while running Network Screen (EMP-835 only).

[Enter(◌)] button

Accepts an item selection and displays the next level of menu. When using the wireless mouse function, it works in the same way as a left mouse click.

[Menu] button

Displays or hides the configuration menu.

[Search] button

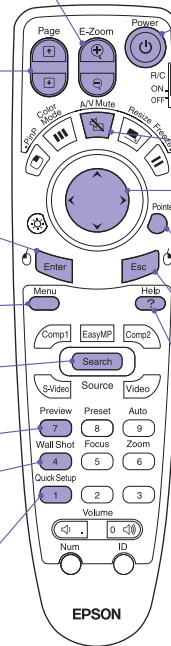Automatically searches for and projector input source.

[Preview] button

Turns the preview function on or off.

[Wall Shot] button

Automatically corrects the image colour when projecting onto a blackboard or wall.

[Quick Setup] button

Adjusts focus and corrects keystone distortion at a single touch.

[Power] button

Turns the projector's power on or off.

[R/C] switch

Turns the remote control's power on or off. The remote control cannot be used unless it is set to "ON".

[A/V Mute] button

Temporarily turns the image and sound off, or back on if they are already off.

[◉] button

Selects items and setting values while a configuration menu or help is displayed. Moves the pointer when using the wireless mouse function.

[Pointer] button

Displays or hides the pointer.

[Esc(◌)] button

Cancels the current function. Returns to a previous level while a configuration menu or help is displayed.
When using the wireless mouse function, it works in the same way as a right mouse click.

[Help] button

Displays or hides the help.

EPSON