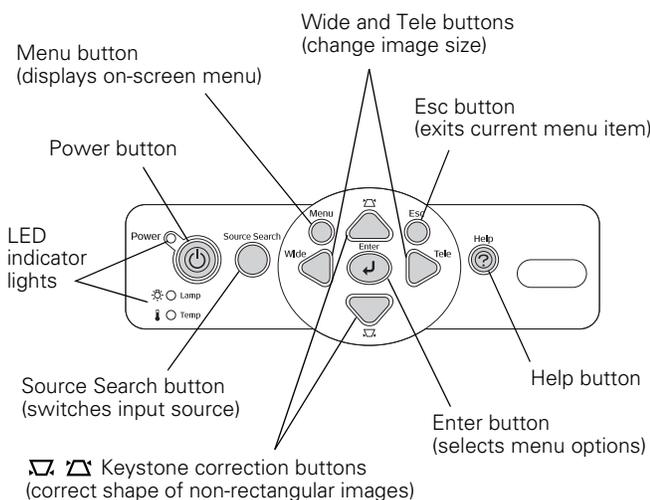
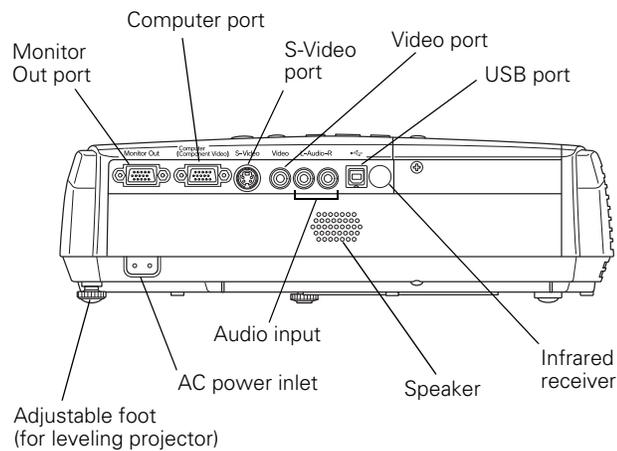
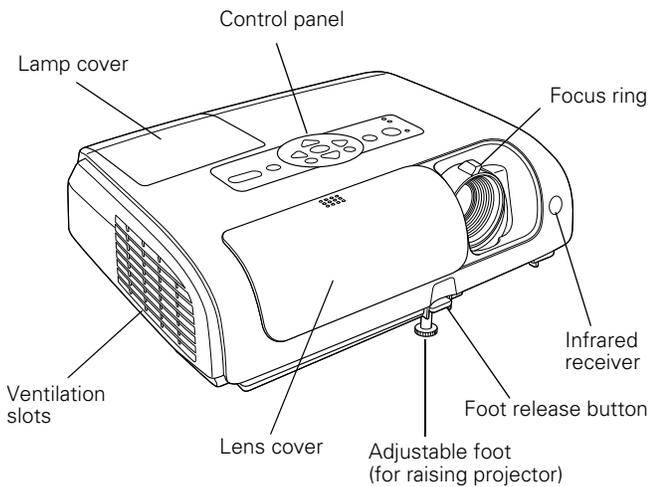


Projector Parts



Projector Specifications

General

Type of display	Poly-silicon Thin Film Transistor (TFT) active matrix
Size of LCD panels	0.5 inches (12.7 mm)
Lens	f=1.4, focal length 16.6 mm
Zoom ratio	1:1.35 (digital zoom)
Resolution	800 × 600 pixels (SVGA)
Brightness (ANSI lumens)	1800 (high brightness mode)* 1500 (low brightness mode)
Contrast ratio	500:1
Image size	30 to 300 inches (0.76 to 7.6 m)
Projection distance	2.85 to 39.7 feet (0.87 to 12.1 m)
Optical aspect ratio	4:3
Keystone correction angle, vertical	± 30° (for 4:3 images) ± 20° (for 16:9 images)
Noise level	36 dB (high brightness mode); 30 dB (low brightness mode)
Speaker	1 W monaural

* when using the Game color mode (see page 5)

Lamp

Type	UHE (Ultra High Efficiency)
Power consumption	170 W
Lamp life	2000 to 3000 hours, depending on brightness mode selected
Part number	V13H010L36

Remote Control

Range	20 feet (6 meters)
Battery	AAA × 2

Dimensions

Height	3.4 inches (87 mm)
Width	12.9 inches (327 mm)
Depth	9.7 inches (247 mm)
Weight	5.7 lb (2.6 kg)

Epson PowerLite S4

Electrical

Rated frequency	50/60 Hz
Power supply	100 to 120 V: 2.2 A 200 to 240 V: 1.0 A
Power consumption	Operating: 250 W Standby: 5 W

Environmental

Temperature (non-condensing)	Operating: 41 to 95 °F (5 to 35 °C) Storage: 14 to 140 °F (-10 to 60 °C)
Humidity	Operating: 20 to 80% RH, non-condensing Storage: 10 to 90% RH, non-condensing
Operating altitude	7500 feet (2280 meters)

Safety

United States	FCC Part 15B Class B (DoC) UL60950 Third Edition
Canada	ICES-003 Class B CSA C22.2 No. 60950)

Compatible Video Formats

The projector supports the video formats listed in the following tables. To project computer images, the computer's video card must be set at a refresh rate that's compatible with the projector. See your computer documentation for details.

Component Video

Signal	Refresh Rate (Hz)	Resolutions (dots)	
		Aspect ratio 4:3	Aspect ratio 16:9
SDTV (480i) (D1)	60	800 × 600	800 × 450
SDTV (576i)	50	800 × 600	800 × 450
SDTV (480p) (D2)	60	800 × 600	800 × 450
HDTV (720p) 16:9 (D4)	60	800 × 600	800 × 450
HDTV (1080i) 16:9 (D3)	60	800 × 600	800 × 450

Composite Video/S-Video

Signal	Resolutions (dots)	
	Aspect ratio 4:3	Aspect ratio 16:9
NTSC	800 × 600	800 × 450
PAL, SECAM	800 × 600	800 × 450

It may be possible to project signals which are not listed above. However, not all functions may be supported with such signals.

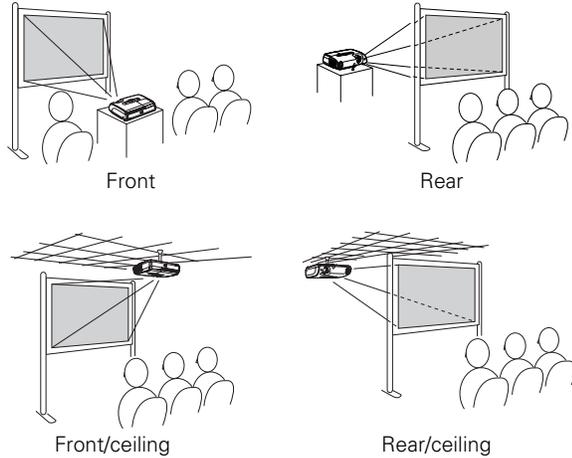
Computer

Signal	Refresh Rate (Hz)	Resolution (dots)	Resized display resolution (dots)
VGA	60	640 × 480	800 × 600
VGAEGA	70	640 × 350	800 × 438
VESA	72 / 75 / 85, iMac*	640 × 480	800 × 600
SVGA	56 / 60 / 72 / 75 / 85, iMac*	800 × 600	800 × 600
XGA	43i / 60 / 70 / 75 / 85, iMac*	1024 × 768	800 × 600
SXGA	70/75/85	1152 × 864	800 × 600
SXGA	60/75/85	1280 × 960	800 × 600
SXGA	60/75/85	1280 × 1024	750 × 600
MAC13"	67	640 × 480	800 × 600
MAC16"	75	832 × 624	800 × 600
MAC19"	60/75	1024 × 768	800 × 600
MAC21"	75	1152 × 870	794 × 600
SDTV (480i)	60	720 × 480	800 × 600
SDTV (480ip)	60	640 × 480	800 × 600
SDTV (576i)	60	710 × 576	800 × 600
HDTV (720p)	60	1280 × 720	800 × 450
HDTV (1080i)	60	1920 × 1080	800 × 450

* Connection is not possible if the equipment does not have a VGA output port.

Positioning the Projector

You can install the projector for these viewing setups:



When projecting from a rear or overhead position, reorient the image by changing the **Projection** setting in the **Extended** menu.

Image Size and Projection Distance

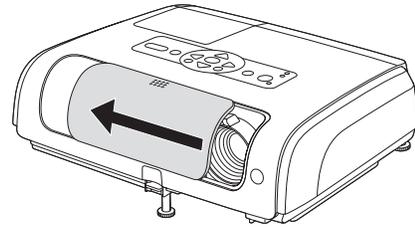
The maximum size of the image is determined by the distance from the projector's lens to the screen. Depending on how you use the zoom and other settings, the actual size may be smaller.

Projection distance (wide to tele)	Maximum diagonal image size
2.9 to 3.9 feet	30 inches (26 × 14 inches)
3.8 to 5.2 feet	40 inches (34 × 19 inches)
5.8 to 7.9 feet	60 inches (52 × 29 inches)
7.8 to 10.5 feet	80 inches (69 × 39 inches)
9.7 to 13.2 feet	100 inches (87 × 49 inches)
19.6 to 26.5 feet	200 inches (174 × 98 inches)
29.4 to 39.8 feet	300 inches (261 × 147 inches)

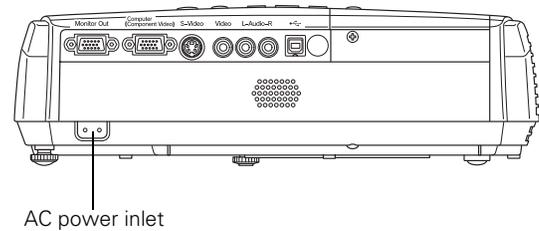
To determine the exact image size when you know the projection distance (or the exact projection distance when you know the desired image size), you can use the **Projection Distance Calculator**. You can download this program from the Epson website at <http://support.epson.com>.

Turning the Projector On and Off

1. Open the lens cover.



2. Connect the power cord to the projector and plug the other end into an electrical outlet.



3. The **Power** light turns orange.
4. Press the **Power** button on the projector or remote control.
You hear a beep, the **Power** light flashes green, and the lamp comes on in about 4 seconds. The **Power** light stays green.
5. Start your video or presentation. If you have connected more than one video source, use the **Source** buttons on the remote control to select the one you want to watch.

Turning Off the Projector

1. Press the **Power** button on the projector or remote control.
2. When you see the confirmation message, press the **Power** button again.
3. When the projector beeps twice and **Power** light turns orange, unplug the projector.

Caution: Turn off this product when not in use to prolong the life of the projector.

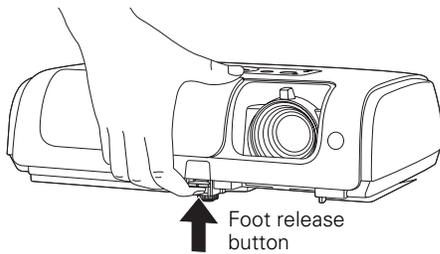
Adjusting the Image

The following sections describe how to adjust the image once it is displayed.

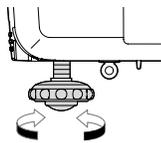
Adjusting the Height of the Image

If the image is too low, you can raise it by extending the projector's front foot.

1. Stand behind the projector. Press the foot release button and lift the front of the projector. This unlocks the foot.



2. Once the image is positioned where you want it, release the button to lock the foot in place.
3. If you need to straighten the image, rotate the foot in the back of the projector to raise or lower the side.

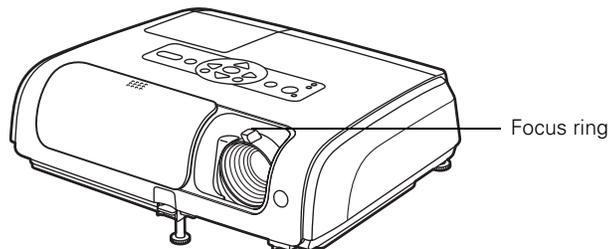


If the image is no longer square after raising it, see "Adjusting the Image Shape" on page 5.

You can also use the Image Shift setting to finely adjust the position of the image on the screen. See the *User's Guide* for details.

Focusing the Image

Rotate the focus ring to sharpen the image.



Adjusting the Image Size

You can adjust the image size using the Wide and Tele buttons on the projector, or zoom into a portion of the image using the E-Zoom buttons on the remote control.

Using the Wide and Tele Buttons

To enlarge or reduce your image size in small increments, press the Wide button to enlarge the image or press the Tele button to reduce it.

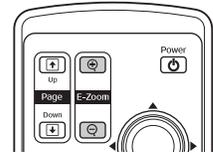


Note: You can also move the projector closer to or farther from the screen to adjust the image size.

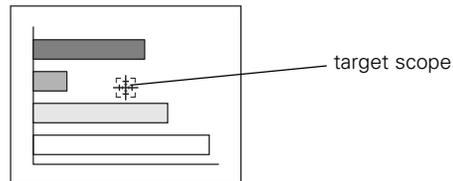
Using the E-Zoom Buttons

1. Press the E-Zoom ⊕ button on the remote control.

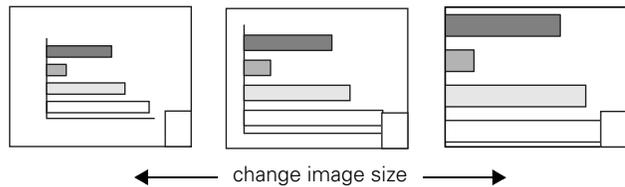
A target scope is displayed on the screen.



2. Press the ▲ ▼ ◀ ▶ buttons to move the target scope to the center of the part you wish to enlarge or reduce.



3. Push E-Zoom ⊕ to enlarge the image. Push E-Zoom ⊖ to reduce the enlarged image.



- ❑ E-Zoom ⊕: Enlarges part of the image without changing the size of the projection area.
 - ❑ E-Zoom ⊖: Reduces the part of the image that has been enlarged using the ⊕ button.
 - ❑ Reposition the image using the ▲ ▼ ◀ ▶ buttons.
- Press ESC to cancel.

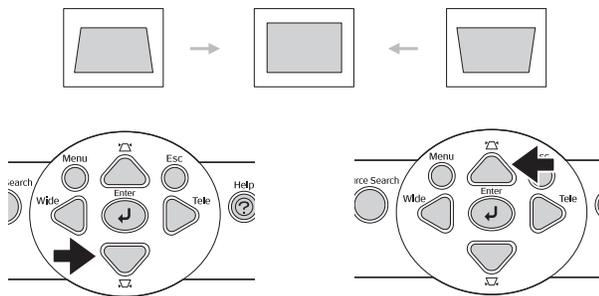
Adjusting the Image Shape

To avoid projecting with a distorted image shape, make sure the projector is positioned in line with the center of the screen (not to its left or right). Make sure the projector faces the screen squarely.

If the image is distorted after raising the projector, you can use the projector's keystone correction function to adjust the shape.

Note: You can correct only vertical keystone with this function. Images can be corrected when the projector is tilted to a maximum of $\pm 30^\circ$ for images with a 4:3 aspect ratio, or $\pm 20^\circ$ for 16:9 images.

Press the **▲** or **▼** buttons to correct keystone distortion:



Note: The screen size changes when keystone correction is performed. If you notice reduced image quality after adjusting the shape, decrease the sharpness setting.

Adjusting Computer Images

If you're projecting from a computer, the projector's **Auto Setup** function automatically adjusts the image for the best quality. However, if **Auto Setup** in the Signal menu is turned off, you need to press the **Enter** button on the projector to make the adjustment. This corrects the tracking, sync, and position settings. Turn off **E-Zoom** and **A/V Mute** before pressing this button.

Sometimes the image may not adjust correctly, depending on the type of signal output by the computer. Use the projector's **Tracking**, **Sync**, and **Position** settings in the Signal menu if you notice any of these problems:

- Flashing or blurry image
- Vertical or horizontal stripes
- Only a portion of the image is displayed

See the *User's Guide* for more information.

Selecting the Color Mode

There are seven color modes. The mode changes each time you press the **Color Mode** button on the remote control. Make a selection appropriate for the image and current conditions.

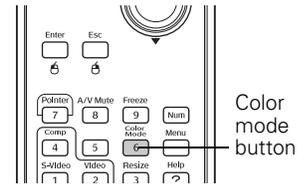


Photo (Computer or RGB video)

Images are vivid and high-contrast. Ideal for projecting still pictures, such as photos, in a bright room. Photos that are under- or over-exposed look best in this mode.

Presentation

Ideal for giving presentations in a bright room

Theatre

Gives images a natural tone. Ideal for watching films in a dark room.

Game

Excels at emphasizing dark gradations. Ideal for playing video games in a bright room.

sRGB

Conforms to the sRGB color standard. If the connected source has an sRGB mode, set both the projector and the connected source to sRGB.

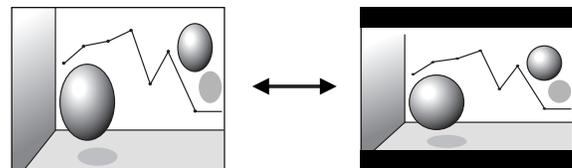
Blackboard

When projecting onto a blackboard (green board), gives your images a natural tint, just like projecting onto a screen.

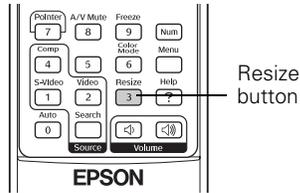
*Note: You can also change the color mode through the **Image** menu.*

Selecting the Aspect Ratio

The aspect ratio is the ratio between an image's width and its height. Standard images have an aspect ratio of 4:3 and HDTV and DVD images have an aspect ratio of 16:9. If your video source is 16:9, you can change the aspect ratio to view the video in 16:9 wide-screen format.



To change the aspect ratio, press the **Resize** button on the remote control.

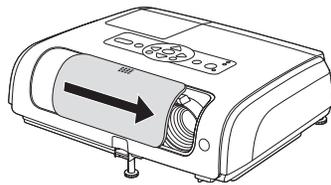


Turning Off the Picture and Sound

Press the **A/V Mute** button on the remote control to darken your screen and turn off the sound. When you're ready to resume, press **A/V Mute** again.

*Note: You can make the blank screen blue, instead of black, whenever you press the **A/V Mute** button by selecting it as the background color in the **Extended > Display** menu.*

You can also temporarily stop the picture and sound by closing the lens cover.



Freezing the Action

Press the **Freeze** button on the remote control to temporarily freeze the action on the screen. This freezes any moving images on the screen until you press the **Freeze** button again.

Like the **A/V Mute** feature, if you are projecting a video, the video and audio continue while the projected image is paused.

Locking the Projector

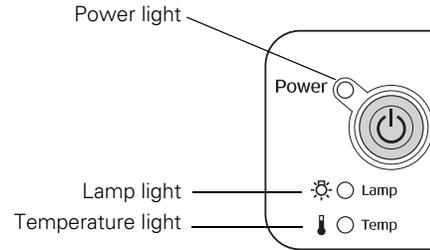
You can lock the projector to prevent the image from being accidentally changed once it's adjusted, and to keep children from using the projector without adult supervision.

1. Press the **Menu** button on the projector or remote control.
2. Use the menu navigation buttons to open the **Settings** menu, then select **Operation Lock**.
3. Turn the setting on to disable all the buttons on the projector's control panel, except for the **Power** button. To operate the projector, you have to use the remote control.
4. Press **Menu** to exit the menu system.

Note: You can also set a password to prevent unauthorized use of the projector, or to allow the projector to be used for a selected period of time before password entry is required. See the User's Guide for details.

Projector Status Lights

If your projector isn't working correctly, first turn it off, wait for the warning light to turn a steady orange, and unplug it. Then plug the power cord back in and turn on the projector. If this doesn't solve the problem, check the lights on top of the projector. They alert you to possible problems.

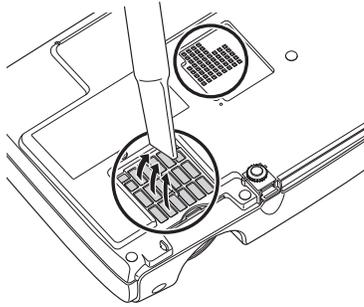


Light	Status	Action
	off	Make sure the power cable is connected securely at both ends.
	orange	The projector is in standby mode. You can unplug the projector or press the Power button to turn it on.
	flashing green	The projector is warming up. The projected image starts to appear after about 4 seconds.
	green	The projector is operating normally.
	flashing orange	You've turned off the projector and it's cooling down. Wait until the light stops flashing, then unplug it (or press the Power button to turn it back on).
	flashing orange	The lamp needs to be replaced soon. Make sure you have a spare lamp handy.
	Power light is red and Lamp light is flashing red	The lamp needs to be replaced for projection to continue. If you just replaced the lamp, make sure the lamp cover is securely attached.
	Power light is flashing red and Temp light is flashing orange	The projector is overheating. Make sure the air filter is clean; replace it if necessary.
	Power and Temp lights are red	The projector is overheating. The lamp will turn off automatically and projection will stop. Make sure the air filter is clean; replace it if necessary.
	Power light is red and Temp light is flashing red	There is an internal problem. Turn off the projector and unplug it. Then contact Epson for assistance.

Cleaning and Replacing the Air Filter

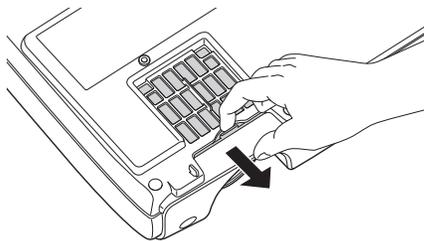
Clean the air vents on the bottom of the projector once every three months, or more often in dusty environments. If they're not cleaned periodically, they can become clogged, preventing proper ventilation. This can cause overheating and damage the projector.

1. Press the  Power button and wait for the  power light to stop flashing.
2. Unplug the power cord and disconnect any cables.
3. Turn the projector over.
4. Use a small vacuum cleaner designed for computers and other office equipment to clean the vents shown below. If you don't have a vacuum, use a very soft brush, such as an artist's paintbrush.

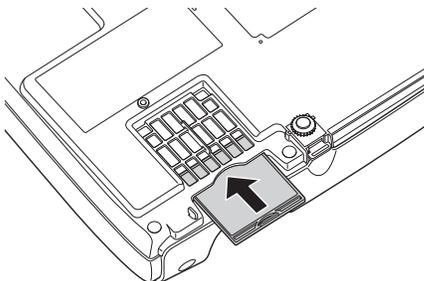


If the dirt is difficult to remove or the filter is broken, replace it. Order part number V13H134A08 from an authorized Epson reseller.

5. If you need to replace the filter, slide it out as shown below.



6. Insert the new filter so it clicks into place.



Replacing the Lamp

The projection lamp lasts from 2000 to 3000 hours, depending on usage. You can use the Info menu to check how long it's been in use. It's time to replace the lamp when:

- The projected image gets darker or starts to deteriorate.
- The projector's Lamp light flashes orange.
- The message **Replace the lamp** appears on the screen when you start projecting.

Note: Lamp life results vary depending on mode selected, environmental conditions, and usage. Lamp brightness decreases over time. Turn off this product when not in use to prolong the life of the projector.

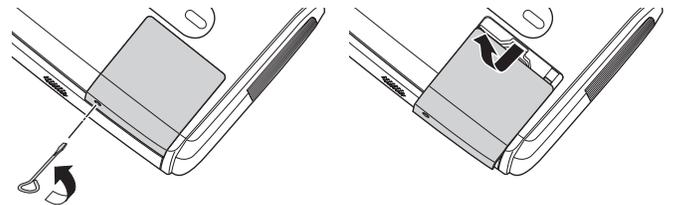
Purchase lamp part number V13H010L36 from an authorized Epson reseller.

Warning: Let the lamp cool fully (about an hour) before replacing it. In the unlikely event that the lamp has broken, small glass fragments may be present and should be removed carefully to avoid injury.

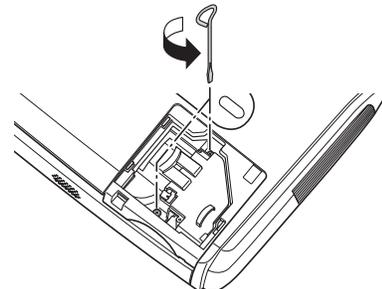
Caution: Never touch the lamp with your bare hands; the invisible residue left by the oil on your hands may shorten the lamp life. Use a cloth or glove to handle the new lamp.

Follow these steps to replace the lamp:

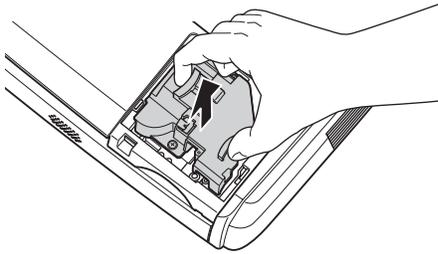
1. Turn off the projector and unplug the power cord.
2. If the projector has been on, let it cool for about an hour.
3. Use the screwdriver included with the replacement lamp (or your own Phillips screwdriver) to loosen the lamp cover screw. Then slide off the lamp cover to remove it.



4. Loosen the two screws securing the lamp (they don't come all the way out).



- Grasp the lamp as shown and pull it straight out.



Warning: (Hg) *This product includes a lamp component that contains mercury (Hg). Please consult your state and local regulations regarding disposal or recycling. Do not put in the trash.*

- Gently insert the new lamp and tighten its screws.
- Caution:** *Don't touch the glass portion of the lamp assembly. Touching the glass could result in premature lamp failure.*
- Replace the cover. (The projector won't work if the lamp cover is open or loose.)
 - Reset the lamp usage timer, as described in the next section.

Resetting the Lamp Timer

After installing a new lamp, you need to reset the timer so the projector can keep track of how many hours it has been used.

- Press the **Menu** button on the projector or remote control.
- Use the menu navigation buttons to open the **Reset** menu, then select **Reset Lamp Hours**.
- When you see a confirmation prompt, highlight **Yes** and press the **↵ Select** button.
- When you're finished, press the **Menu** button to exit.

The lamp usage timer doesn't register until you've used the lamp for at least 10 hours.

Optional Accessories

Epson provides the following consumables and optional accessories:

Product	Part number
Replacement lamp	V13H010L36
Air filter set (2)	V13H134A08
50" Portable screen (4:3 aspect ratio)	ELPSC06
60" Portable pop-up screen (4:3 aspect ratio)	ELPSC07
80" Portable pop-up screen (4:3 aspect ratio)	ELPSC08
83.6" Hanging pull-down screen (4:3 aspect ratio)	ELPSC09
Ceiling mount	ELPMBUNI
False ceiling plate	ELPMBFCP
Ceiling mount secure cable kit	ELPMBSEC
Suspension adapter	ELPMBAPL
Adjustable Ceiling Channel	ELPMBACC
S-Video cable	ELPSV01
Component video cable (9.8 feet/3 m) for mini D-Sub 15-pin/RCA×3	ELPKC19
Distribution amplifier	ELPDA01
Samsonite wheeled softcase	ELPKS35-S
Samsonite soft shoulder case for projector and notebook	ELPKS43
ATA molded hardshell case	ELPKS54
ELPDC05 High resolution document imager	V12H162020
Kensington security lock	ELPSL01

You can purchase screens, carrying cases, or other accessories from an Epson authorized reseller. To find the nearest reseller, call 800-GO-EPSON (800-463-7766). Or you can purchase online at www.epsonstore.com (U.S. sales) or www.epson.ca (Canadian sales).

Related Documentation

CPD-21361	<i>Epson Powerlite S4 Projector User's Guide</i> (HTML manual on CD-ROM)
CPD-21358R1	<i>Epson Powerlite S4 Quick Setup</i>
CPD-21666	<i>Epson America, Inc. Limited Warranty</i>