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# EPSON® PowerLite® 50c/70c Multimedia Projector



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**THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES**

## *User's Guide*

## Important Safety Information

**WARNING:** Never look into the projector lens when the lamp is turned on; the bright light can damage your eyes. Never let children look into the lens when it is on. Never open any cover on the projector, except the lamp and filter covers. Dangerous electrical voltages inside the projector can severely injure you. Except as specifically explained in this *User's Guide*, do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

**WARNING:** The projector and its accessories come packaged in plastic bags. Keep plastic bags away from small children to avoid any risk of suffocation.

**Caution:** When you replace the lamp, never touch the new 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.

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# W

## *Welcome*

Your EPSON® PowerLite® 50c or PowerLite 70c is a small, lightweight, affordable projector offering powerful 3-LCD performance and easy-to-use controls. Your projector weighs less than 7 pounds and displays full-color images at a resolution of up to 800 × 600 pixels (EPSON PowerLite 50c) or 1024 × 768 pixels (EPSON PowerLite 70c).

Producing up to 700 ANSI lumens (EPSON PowerLite 70c) or 1000 ANSI lumens (EPSON PowerLite 50c), your projector creates bright images that can be easily seen in rooms light enough to take notes.

You can connect it simultaneously to two image sources: a computer and a video device, such as a VCR, DVD player, laser disc player, camcorder, or digital camera. You can also connect audio for each image source.

You can operate your projector through a hand-held remote control, with buttons for zooming in on your image, adjusting volume, and accessing all the projector's features. You can also use the remote control as a wireless mouse, and run your presentation as you move around the room.

EPSON's SizeWise™ technology supports a range of computer outputs, for a full-size image from just about any notebook PC or PowerBook.® If you use a VCR or other video source, the projector automatically senses the video format, so you can use it with confidence no matter where in the world you travel.

The EPSON® PrivateLine<sup>SM</sup> Technical Support program will get you help when you need it. A special 800 number and your own PIN will connect you with a projector support specialist—fast.



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*Welcome* 1

## Using Your Documentation

To connect the projector to your laptop and get your presentation running fast, see the *Quick Setup* sheet that came in your *Owner's Kit*.

This book contains all the information you need to set up and use your projector. Please follow these guidelines as you read through it:

### warning

### caution

### note

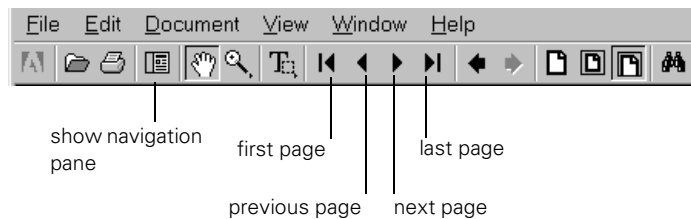
- Warnings must be followed carefully to avoid bodily injury.
- Cautions must be observed to avoid damage to your equipment.
- Notes contain important information about your projector.

## Reading This Manual Online

Your EPSON PowerLite CD-ROM includes an electronic copy of this manual. You may find it convenient to copy it onto your laptop's hard drive so it's always with you—for example, when taking your presentation on the road.

To view your electronic manual, you need to use Adobe® Acrobat® Reader. Just insert the CD-ROM in your drive, select the **Install/View User's Guide** button and click **Install User's Guide** or **View User's Guide**.

When you open the manual, you see this toolbar:



You have several ways to navigate through the manual:

- Click in the table of contents on the left side of the screen to move quickly to the topic of your choice.
- Use the arrow buttons in the toolbar or on the vertical scroll bar on the right side of the screen to move through the manual.



- If you hold your mouse pointer over text and the hand changes to an index finger, you can click to jump to a related topic.

For more information, see your Acrobat Reader online guide.

## **Getting More Information**

Need more tips on giving presentations? How about quick steps for setting up your projector? Here's where you can look for help:

- **www.presentersonline.com**  
Includes a library of articles covering presentation tips, tricks, and technology. The site provides templates, clip art and sound clips, as well as Presenters Services to use on the road. Even more resources and services are available if you register to join the Presenters Club®—and it's free.
- **Quick Setup sheet**  
Gives you all the instructions you need to get your projector set up and connected to a laptop or PowerBook computer.
- **Owner's Kit**  
Includes your *Quick Setup* sheet, warranty brochures, CD-ROMs, and EPSON PrivateLine Support card. Store this *User's Guide* in the folder and keep the folder with your projector at all times.
- **Built-in help system**  
Provides assistance for common problems. Available from the **Help** button on the projector or the remote control. See page 51 for details.
- **support.epson.com**  
Download FAQs and e-mail your questions to EPSON support.
- **CD-ROMs**  
Your *Owner's Kit* includes the EPSON PowerLite CD-ROM that lets you register electronically, and includes the electronic copy of this book as well as a link to *Presenters Online*.

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### **note**

*You don't need to install any software to use your projector.*

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Welcome 3

If you still need help after checking this *User's Guide* and the sources listed above, you can use the EPSON PrivateLine Support service to get help fast. Call (800) 637-7661 and enter the PIN on the card in your *Owner's Kit*. Or take advantage of EPSON's automated support services 24 hours a day. See page 58 for more information.

## *Registration and Warranty*

Your projector comes with a basic carry-in warranty as well as an international warranty that let you project with confidence anywhere in the world. For details, see the warranty brochures included in your *Owner's Kit*.

In addition, for customers who register their projector, EPSON offers free Extra Care<sup>SM</sup> Road Service. In the unlikely event of an equipment failure, you won't have to wait for your unit to be repaired. Instead, EPSON will ship you a replacement unit anywhere in the United States or Canada, usually via overnight delivery. See the brochure in your *Owner's Kit* for details.

To register, simply insert the EPSON PowerLite CD-ROM that came with your projector and select **Register Online**. Registering also lets you receive special updates on new accessories, products, and services. You can register through the Internet, by e-mail or 800-number modem connection, or by printing out the form to fax or mail.



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# 1

## Setting Up the Projector

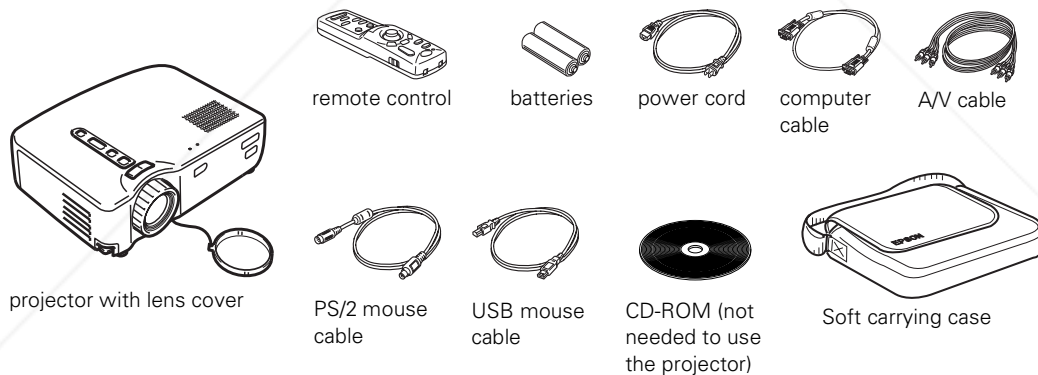
This chapter tells you how to unpack your projector and set it up for a presentation. The projector must be connected to a computer or a video source such as a DVD player, VCR, camcorder, digital camera, or other video device before it can project images.

To set up the projector, you need to:

- Unpack and position the projector
- Connect the projector to one or more input sources

### Unpacking the Projector

Make sure you have all the parts shown:



#### **note**

*You won't need all these components; your configuration will determine which ones you need.*

Save all packaging in case you need to ship the projector. Always use the original packaging (or the equivalent) when you need to send the projector to another location. If you are moving the projector by hand, use a carrying case (either an EPSON case or something similar, such as a laptop case). See page 50 for transportation instructions.



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## ***Additional Components***

Depending on how you use the projector, you may need these additional components:

- To receive an S-Video signal, you need an S-Video cable (usually provided with your video device).
- Older iMac™ systems may need a special adapter to provide a VGA output port; see your computer dealer.
- To project HDTV images, you'll need an HDTV cable, available from most electronics dealers.
- To receive an audio signal, you'll need a stereo mini-jack cable, available from most electronics dealers.

## ***Optional Accessories***

To enhance your use of the projector, EPSON provides the following optional accessories:

Product	Product number
Customized carrying cases: ATA molded hard shell carrying case ATA shipping case Samsonite® wheeled soft case Notebook/Projector soft shoulder bag	ELPKS36 ELPKS37 ELPKS35 ELPKS13
Replacement lamp	ELPLP13
Ceiling mount	ELPMB35
Projection screens: 50-inch portable screen 60-inch Insta Theatre screen 80-inch Insta Theatre screen	ELPSC06 ELPSC07 ELPSC08
Component video cable	ELPKC19
Macintosh adapter set	ELPAP01
Kensington security lock	ELPSL01
Presentation audio system	ELPPAS1
Wireless microphone system	ELPCVS1

You can purchase these accessories from your dealer, or by calling EPSON at (800) 873-7766, or by visiting the EPSON Store™ at [www.epsonstore.com](http://www.epsonstore.com) (U.S. sales only). In Canada, please call (800) 873-7766 for dealer referral.

## *Positioning the Projector*

The location in which you choose to set up your projector depends on the size of the room and your presentation style.

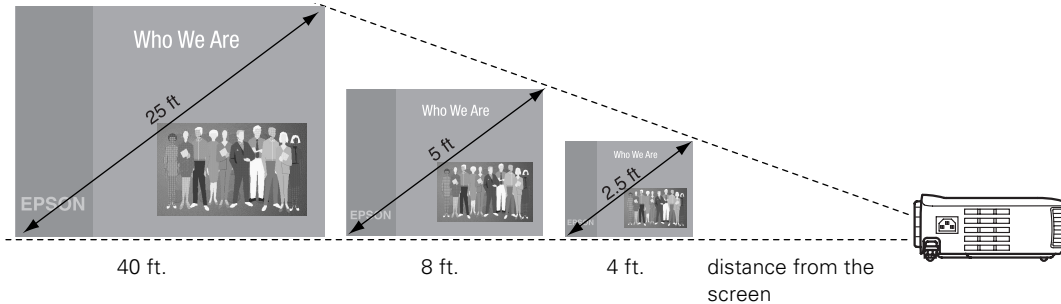
- Place the projector on a sturdy, level surface, within this distance from the screen:
  - 3.3 to 36 feet in Wide mode
  - 3.9 to 43.2 feet in Tele mode
  - (see page 28 for more information on these modes)
- Make sure there is plenty of space for ventilation around and under the projector.
- Make sure the projector is within 6 feet of a grounded electrical outlet or extension cord, and within 5 feet of your computer and/or video source.
- Place the projector directly in front of the center of the screen, facing it toward the screen squarely. Otherwise, your image will not be square.

Most presenters find it convenient to place the screen in the front of the room with the projector back near the front of the audience, leaving ample room between the screen and projector to get a good-sized image. Then the presenter can stand in front of the room, facing the audience and control the equipment from there.

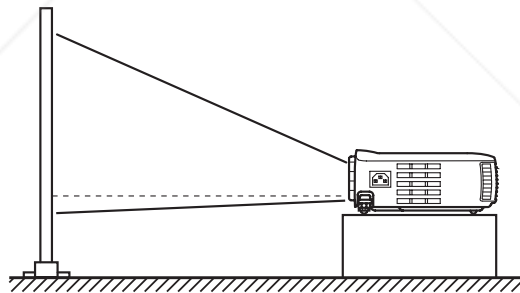
### **note**

*It's best to position the screen directly in front of the room. If it's placed diagonally in a corner, it's much more difficult to aim the projector at the screen correctly and get a square image.*

Use the figure below as a guideline to help you determine how far from the screen to place the projector. Your image size may not exactly match these sizes; its actual size depends on whether you have adjusted the image size setting (using keystone correction or the **Wide/Tele** button).



When projecting from a table, the ideal arrangement is to set the projector flat on its surface with the base of the lens at about the level of the bottom of the screen. This delivers the best-looking picture.



If you have to raise the projector by adjusting its feet (described on page 29), you'll need to square-up the sides of image by pressing the **Keystone** button (see page 30).

If you'll be projecting from overhead, you'll get the best-looking picture by mounting the projector upside-down, parallel to the ceiling, with the bottom of the lens level with the top of the screen. (You'll also need to select ceiling projection mode in the projector's Advanced menu; see page 42.)

## *Choosing Your Connections*

The connections you'll need to make depend on the equipment you're using, whether your presentation includes sound, and whether you plan to use the remote to run your presentation.

- **Connecting to a computer or laptop**

For many presentations, the only connection you'll need is between your computer and the projector; see page 10.

- **Connecting to video sources**

You can connect the projector to a DVD player, VCR, camcorder, laser disc player, digital camera, or another type of video source. You can even connect a video source and computer at the same time and switch between the two; see page 18.

- **Using the remote control**

You can use the remote control to switch between input sources, zoom into your image, and control other projector features.

To use the remote control as a wireless mouse, you'll need to connect one of the projector mouse cables. Then you can click through your presentation from up to 32 feet away. See page 31 for instructions on using the remote control.

- **Including sound in your presentation**

If your presentation includes sound, you can connect an audio cable to use the projector's built-in speaker. See the instructions for your input source in "Connecting to a Computer" on page 10 and/or "Connecting to Video Sources" on page 18.

If you need more volume, you can also connect the projector to external speakers or a public address system; see page 21.

## Connecting to a Computer

Follow the instructions in these sections for the type of computer you need to connect:

- “Connecting to a PC Laptop” below
- “Connecting to a PC Desktop Computer” on page 12
- “Connecting to a PowerBook” on page 14
- “Connecting to a Macintosh Desktop Computer” on page 16

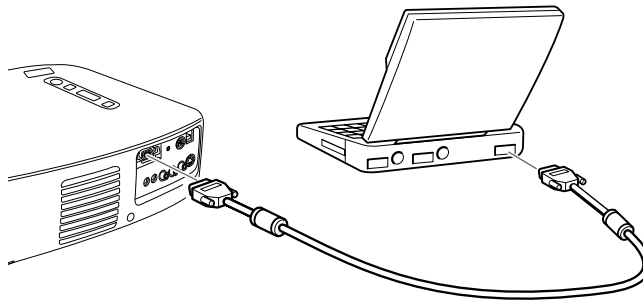
### Connecting to a PC Laptop

To connect the projector to your laptop, notebook computer, or hand-held device, you need to use the computer cable. If you'll be using the remote control as a wireless mouse, you need to connect a mouse cable. If you'll be using audio through the projector's speakers, you need to connect an audio cable (not included with the projector).

#### Connecting the Computer Cable

Before you start, turn off your laptop and the projector.

1. Connect one end of the computer cable to the projector's Computer port.



#### **note**

Laptop configurations vary. See your manual if you're not familiar with the ports on your laptop.


2. Connect the other end of the cable to your laptop's video-out or monitor port.
3. Tighten the screws on the connectors.

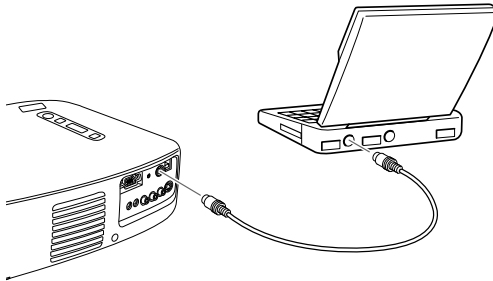
If you don't need to make any other connections, you can plug in and turn on your equipment; see page 21 for instructions.



### Connecting the Mouse Cable

To use the remote control as a wireless mouse, you need to connect a mouse cable: either the round PS/2 or the flat USB mouse cable.

1. Connect one end of the appropriate mouse cable to the PS/2 Mouse/Com port or the  USB Mouse port on the projector.



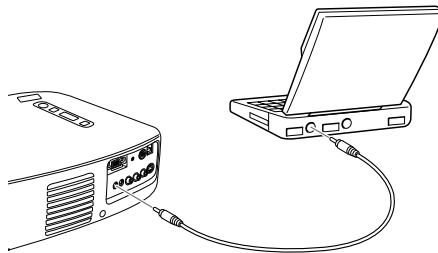
2. Connect the other end to your laptop's external mouse or USB port.
3. If necessary, configure your laptop to work with an external mouse.

If you don't need to make any other connections, you can plug in and turn on your equipment; see page 21 for instructions.

### Connecting the Audio Cable

If you'll be using audio through your projector's speakers, you need to connect a stereo, mini-jack audio cable (not included).

1. Connect one end of the audio cable to the Audio In port on the projector.



2. Connect the other end to the laptop's headphone or audio out jack.

#### **note**

See page 32 for instructions on using the remote control as a wireless mouse.

You can use the USB port for a mouse only on systems configured originally with Windows® 98 or 2000. If you upgraded your system from Windows 3.1 or 95, the USB port may not work as a mouse port.

#### **note**

If you need additional volume (in a large auditorium, for example), you can also connect external speakers or a public address system to the projector. See page 21 for instructions.

If you don't need to make any other connections, you can plug in and turn on your equipment; see page 21 for instructions.

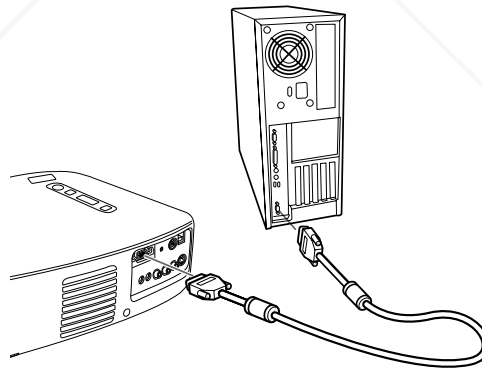
### ***Connecting to a PC Desktop Computer***

To connect the projector to your PC desktop computer, you need to use the computer cable. If you'll be using the remote control as a wireless mouse, you need to connect a mouse cable. If you'll be using audio through the projector's speakers, you need to connect an audio cable (not included with the projector).

#### ***Connecting the Computer Cables***

Before you start, turn off your projector and computer.

1. Disconnect the monitor cable from the monitor port on the back of your computer.
2. Connect one end of the computer cable to the projector's Computer port.




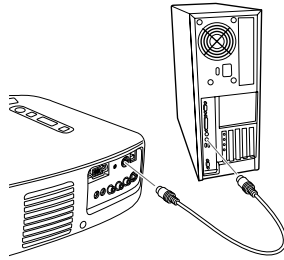
3. Connect the other end of the computer cable to your computer's video (monitor) port.
4. Tighten the screws on the connectors.

If you don't need to make any other connections, you can plug in and turn on your equipment; see page 21 for instructions.

### Connecting the Mouse Cable

To use the remote control as a wireless mouse, you need to connect a mouse cable: either the round PS/2 or the flat USB mouse cable.

1. Connect one end of the appropriate mouse cable to the PS/2 Mouse/Com port or the  USB Mouse port on the projector.



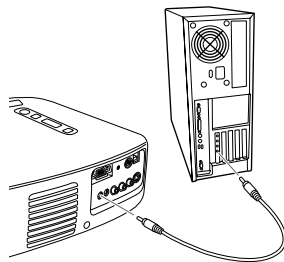
2. Connect the other end to the mouse port on your computer.
3. Tighten the screws on the connectors.

If you don't need to make any other connections, you can plug in and turn on your equipment; see page 21 for instructions.

### Connecting the Audio Cable

If you'll be using audio through your projector's speakers, you need to connect a stereo, mini-jack audio cable (not included).

1. Connect one end of the audio cable to the Audio In port on the projector.



2. Connect the other end of the audio cable to the speaker or audio out port on the computer's sound card. If you don't need to make any other connections, you can plug in and turn on your equipment; see page 21 for instructions.

#### **note**

See page 32 for instructions on using the remote control as a wireless mouse.

You can use the USB port for a mouse only on systems configured originally with Windows 98 or 2000. If you upgraded your system from Windows 3.1 or 95, the USB port may not work as a mouse port.

#### **note**

If you need additional volume (in a large auditorium, for example), you can also connect external speakers or a public address system; see page 21 for instructions.



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Setting Up the Projector 13

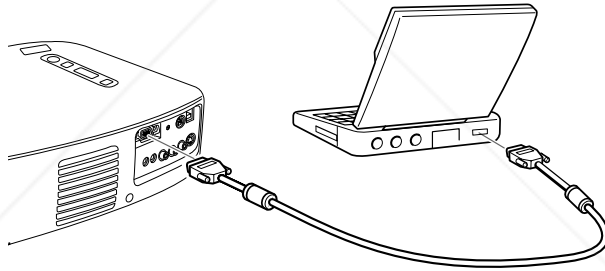
### ***Connecting to a PowerBook***

You can connect your projector to most PowerBooks that support an external monitor. To connect the projector to your PowerBook, you need to use the computer cable. If you'll be using the remote control as a wireless mouse, you need to connect a mouse cable. If you'll be using audio through the projector's speakers, you need to connect an audio cable (not included with the projector).

### ***Connecting the Computer Cable***

Before you start, turn off your PowerBook and the projector.

1. Connect one end of the computer cable to the projector's **Computer** port.
2. Connect the other end to your PowerBook's  **monitor** port.




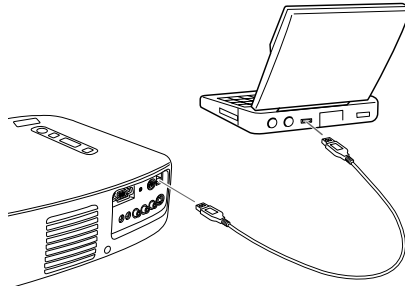
3. Tighten the screws on the connectors.

If you don't need to make any other connections, you can plug in and turn on your equipment; see page 21 for instructions.

### Connecting the Mouse Cable

To use the remote control as a wireless mouse, you need to connect the USB mouse cable.

1. Connect one end of the USB mouse cable to the  USB Mouse port on the projector.



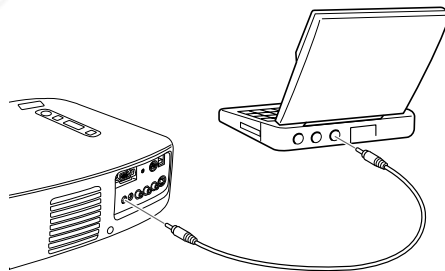
2. Connect the other end to the USB port on your PowerBook.

If you don't need to make any other connections, you can plug in and turn on your equipment; see page 21 for instructions.

### Connecting the Audio Cable

If you'll be using audio through your projector's speakers, you'll need to connect a stereo, mini-jack audio cable (not included).

1. Connect one end of the audio cable to the **Audio In** port on the projector.



2. Connect the other end to the audio out port on your PowerBook.

If you don't need to make any other connections, you can plug in and turn on your equipment; see page 21 for instructions.

#### **note**

*Your Macintosh must be using Macintosh OS 8.51 or later for USB support.*

*See page 32 for instructions on using the remote control as a wireless mouse.*

#### **note**

*If you need additional volume (in a large auditorium, for example), you can also connect external speakers or a public address system; see page 21 for instructions.*

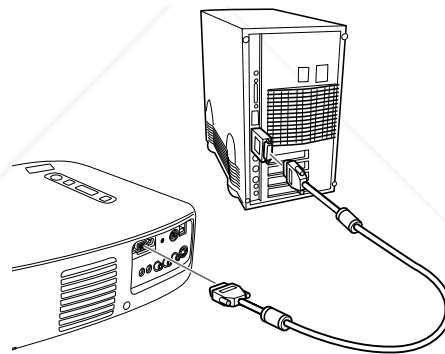
## ***Connecting to a Macintosh Desktop Computer***

To connect the projector to your desktop Macintosh, you need to use the computer cable. If you'll be using the remote control as a wireless mouse, you need to connect a mouse cable. If you'll be using audio through the projector's speakers, you need to connect an audio cable.

### ***Connecting the Computer Cable***

Before you start, turn off the projector and computer.

1. Disconnect the monitor cable from the video (monitor) port on the back of the Macintosh.
2. Connect one end of the computer cable to the projector's Computer port.




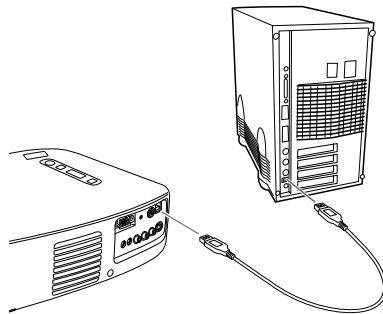
3. Connect the other end of the computer cable the video (monitor) port on the Macintosh.
4. Tighten the screws on the connectors.

If you don't need to make any other connections, you can plug in and turn on your equipment; see page 21 for instructions.

### Connecting the Mouse Cable

To use the remote control as a wireless mouse, you need to connect the USB mouse cable.

1. Connect one end of the USB mouse cable to the  USB Mouse port on the projector.



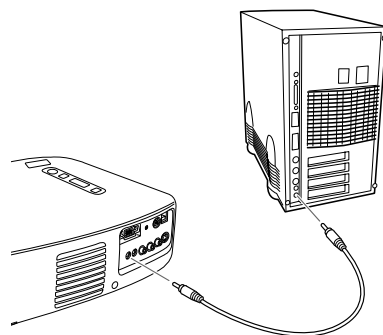
2. Connect the other end to the USB port on your Macintosh.

If you don't need to make any other connections, you can plug in and turn on your equipment; see page 21 for instructions.

### Connecting the Audio Cable

If you'll be using audio through your projector's speakers, you'll need to connect a stereo, mini-jack audio cable (not included).

1. Connect one end of the audio cable to the Audio In port on the projector.



2. Connect the other end of the audio cable to the audio-out port on your Macintosh.

#### **note**

*Your Macintosh must be using Macintosh OS 8.51 or later for USB support.*

*See page 32 for instructions on using the remote control as a wireless mouse.*

#### **note**

*If you need additional volume (in a large auditorium, for example), you can also connect external speakers or a public address system; see page 21 for instructions.*

If you don't need to make any other connections, you can plug in and turn on your equipment; see page 21 for instructions.

**note**

*You can't use the projector with a cable TV-style F connector.*

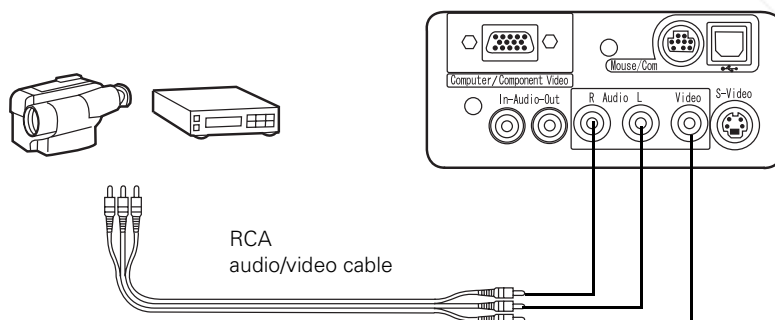
## Connecting to Video Sources

You can connect a DVD player, VCR, camcorder, laser disc player, digital camera, or any other compatible video source to your projector. You can connect one video source and a computer at the same time, and easily switch between them. The projector supports HDTV, NTSC, PAL, and SECAM formats, and automatically detects the one you're using.

### Connecting the RCA A/V Video Cable

Before you start, make sure the projector and your VCR or other video source are turned off.

1. Connect the yellow plug on one end of the A/V cable to the projector's yellow Video jack.
2. Connect the other yellow plug to the video-out jack on your video source.
3. Connect the red and white plugs on the A/V cable to the projector's Audio L (white) and R (red) jacks.



4. Connect the red and white plugs at the other end of the cable to the corresponding audio output jacks on your video source.



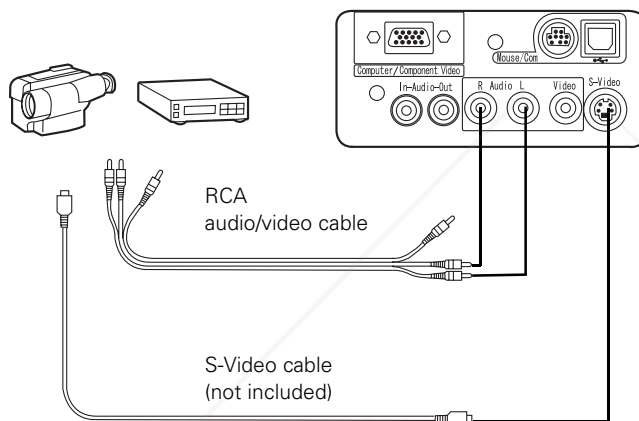
## Connecting an S-Video Cable

If your video source has an S-Video jack (as shown with an S-Video plug to the right), you can use it to project a higher quality video image. However, you'll need an S-Video cable, which may be included with your video source or may be purchased from an electronics or video store.



Before you start, make sure the projector and your VCR or other video source are turned off.

1. Insert one end of the S-Video cable into the projector's S-Video connector.



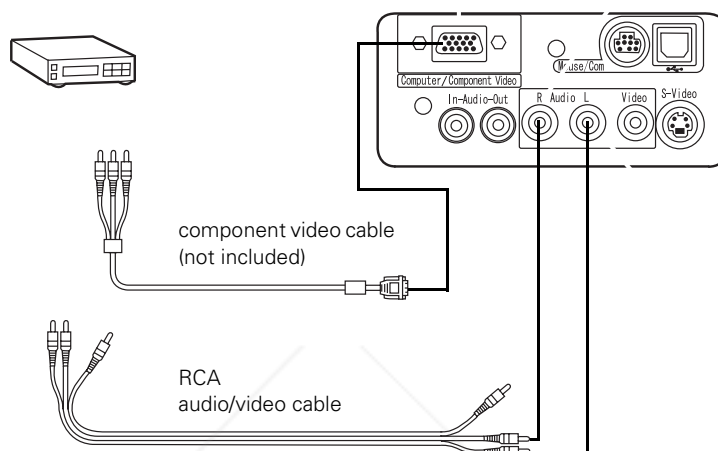
2. Insert the other end into the S-Video output port of your video source.
3. Connect the red and white plugs on the A/V cable to the projector's Audio L (white) and R (red) jacks.
4. Connect the red and white plugs at the other end of the cable to the corresponding audio output jacks on your video source.

## Connecting a Component Video Cable

You can connect a component video cable to project images from a DVD player or HDTV video source. You'll need the RCA A/V cable (included with your projector) and a component video cable (optional; available from EPSON as described on page 6).

Before you start, make sure the projector and your component video source are turned off.

1. Connect the red and white plugs on the A/V cable to the projector's Audio L (white) and R (red) jacks.



2. Connect the red and white plugs at the other end of the A/V cable to the corresponding audio output jacks on your video source.
3. Connect the 15-pin connector on the component video cable to the projector's computer port.
4. Connect the green, blue, and red jacks on the other end of the cable to these ports on your component video source:
  - Y (green)
  - Pb or Cb (blue)
  - Pr or Cr (red) port.
5. Select the correct settings for your component video source by selecting the following in the projector's Video menu (as described on page 38):
  - If you connected the projector to a DVD player, select YCbCr as the Input Signal setting.
  - If you connected an HDTV source or if your DVD player supports YPbPr, select YPbPr as the Input Signal setting and 16:9 as the Aspect Ratio setting.

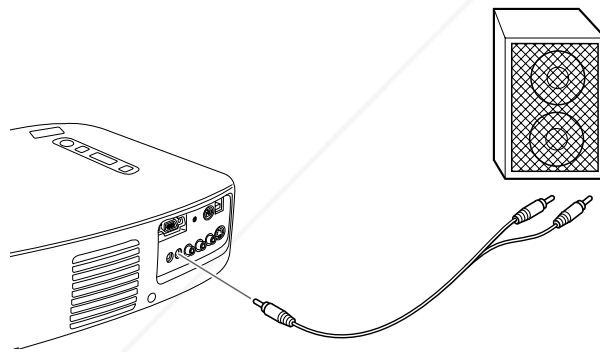
## Connecting to External Speakers or a PA System

The projector's speaker is loud enough for most small- or medium-size rooms. For large rooms or maximum volume, you can connect the projector to external speakers or a public address (PA) system.

You'll need an RCA-to-3.5mm stereo audio cable, which may be included with your sound system or may be purchased from an electronics store.

Before you start, make sure the projector and speakers or PA system are turned off.

1. Connect the cable's 3.5 mm stereo miniplug to the projector's Audio Out jack.



2. Connect the RCA plugs to the speaker or PA system. Insert the cable's red plug into the Audio R jack and the white plug into the Audio L jack.

### **note**

*The projector's internal speaker is disabled when you use an external audio system.*



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# 2

## *Using the Projector*

Once you've connected the projector to your computer or other equipment (as described in Chapter 1), you're ready to turn on the projector, adjust the image, and give your presentation. This chapter covers the following:

- Turning on the projector and other equipment
- Adjusting your image
- Using the remote control
- Controlling audio and video
- Highlighting your presentation
- Shutting down the projector and other equipment

### *Turning On Your Equipment*

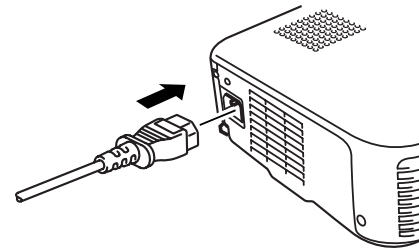
Make sure your projector and other equipment are set up and connected correctly, as described in Chapter 1. Then plug in and turn on your equipment, as described below.

#### **note**

*If you have more than one source connected, you may have to switch to the one you want to use, as described on page 25.*

Follow these steps to plug in and turn on your equipment:

1. If you're projecting video, first plug in and turn on your VCR, DVD player, or other video source. (If you're projecting from a computer, go to step 2.)
2. To turn on the projector, first connect one end of the power cord to the projector's power inlet on its left side.



---

**warning**

*Never look into the lens when the lamp is on. This can damage your eyes, and is especially dangerous for children.*

---


---


**note**


*Windows only: If you see a New Hardware Found message saying that Windows has found a plug-and-play monitor, click Cancel.*

---

3. Connect the other end to a grounded electrical outlet.

The  **Power** light on the projector turns orange, indicating that the projector is receiving power and is in sleep mode, but is not yet turned on.

4. Remove the lens cap.
5. Press the red  **Power** button on top of the projector. (You can also turn on the projector using the remote control, but you must turn on the remote control first; see page 31.)

The  **Power** light flashes green and then stays on. You see a blue screen with the message **No Signal** displayed.


6. If you're projecting images from a computer, turn on your computer. In a few moments, you should see your computer display projected. (If a projected image fails to appear, see the next section for help.)
7. If you're projecting video, press the **Play** button. (If a projected image fails to appear, see the next section for help.)

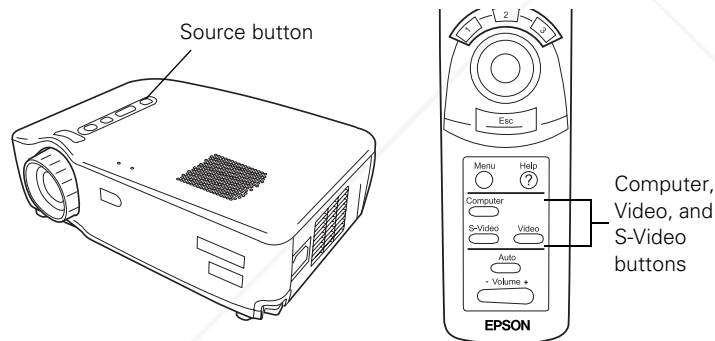
Once you see your image, turn to page 27 for instructions on focusing and making other image adjustments.

When you're done with your presentation, shut down the projector as described on page 36. Shutting down the projector correctly prevents premature lamp failure and possible damage to the projector from overheating.

## What To Do If You See a Blank Screen

If you see a blank screen or a blue screen with the message **No Signal** after turning on your computer or video source, do one of the following:

- Make sure the cables are connected correctly, as described in Chapter 1.
- Make sure the  **Power** light is green and not flashing and the lens cap is off.
- If you've connected more than one input source, you may need to press the **Source** button on top of the projector or the **Computer**, **Video**, or **S-Video** button on the remote control to select the source you want to use. (Allow a few seconds for the projector to sync up after pressing the button.)

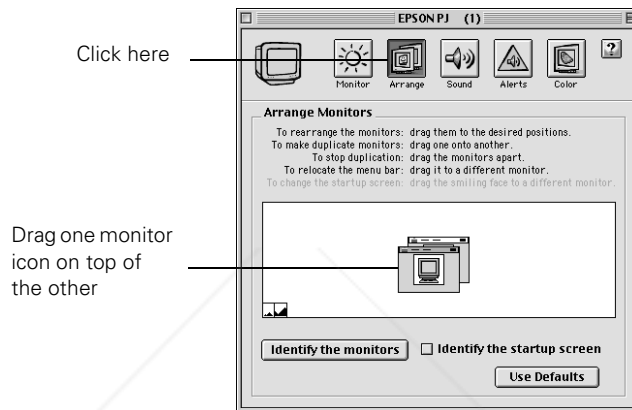


- Try restarting your computer.
- If you still don't see an image and you're using a PowerBook, see page 26 for additional steps. If you're using a PC laptop, see page 27.

### *If You're Using a PowerBook . . .*

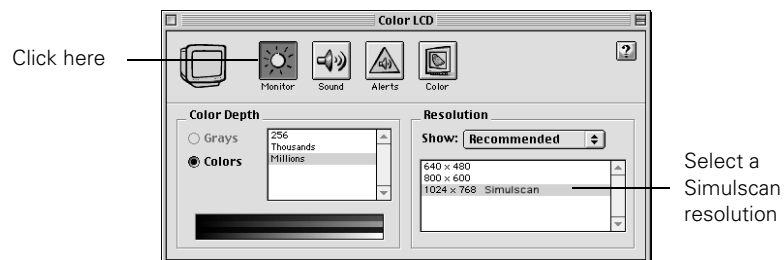
You may need to set up your system to display on the projector screen as well as the LCD screen. Follow these steps:

1. From the Apple menu, select **Control Panels**, then click **Monitors and Sound**.
2. Click the **Arrange** icon.




3. Drag one monitor icon on top of the other.


If this option isn't available, you may need to select one of the Simulscan resolution settings. Click the **Monitor** icon, then select a **Simulscan** resolution as shown. (Allow a few seconds for the projector to sync up after making the selection.)





### *If You're Using a PC Laptop . . .*

- Press the function key that lets you display on an external monitor. It's often labelled with an icon such as  but it may be labelled CRT/LCD. You may have to hold down the Fn key while pressing it. Check your laptop's manual or online help for details.

On most systems, the  or CRT/LCD key lets you toggle between the LCD screen and the projector, or display on both at the same time. Allow a few seconds for the projector to sync up after pressing it.

- Depending on your computer's video card, you might need to use the Display utility in the Control Panel to make sure that both the LCD screen and external monitor port are enabled. See your computer's documentation or online help for details.
- Check your computer's video resolution and scan frequency to see if they are supported, as listed on page 62. You may need to adjust your computer's resolution and scan frequency to match one of the modes listed.

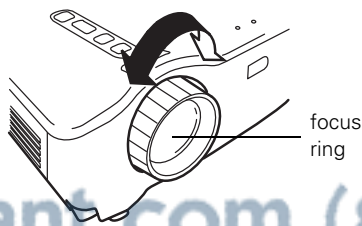
## *Adjusting Your Image*

Once you see your image, you'll need to make certain adjustments:

- To focus your image, see below.
- To resize or zoom into your image, see page 28.
- To raise or lower the image, see page 29.
- If the image isn't square, see page 30.
- If the projected image is flickering or "noisy," see page 30.

### **Focusing Your Image**

Rotate the focus ring to sharpen the image.



#### **note**

*If the image from your computer is still out of focus, you can increase the clarity by pressing the Auto button on the remote control. This optimizes the projector's tracking, sync, and position settings. (You can also adjust these settings using the projector menus; see Chapter 3.)*

## Adjusting the Image Size

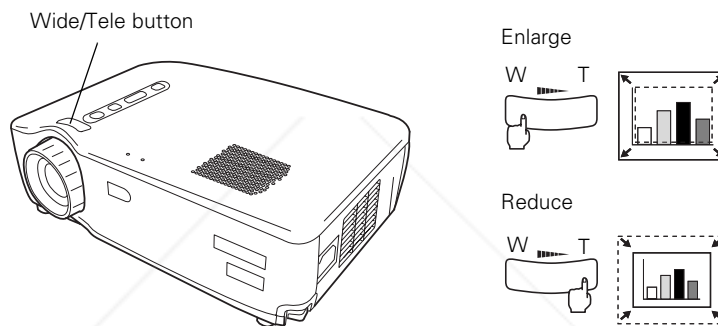
You can adjust your image size using the **Wide/Tele** button on the projector or zoom into a portion of the image using the **E-Zoom** button on the remote control.

### Using the Wide/Tele Button

To enlarge or reduce your image size in small increments, use the **Wide/Tele** button on the projector. Press the **T** side of the button to reduce the image size, or the **W** side of the **Wide/Tele** button to enlarge the image to full size.

#### **note**

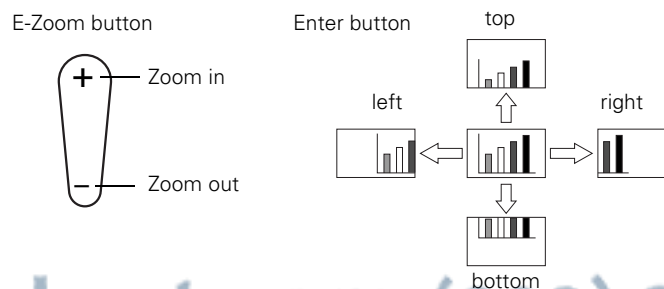
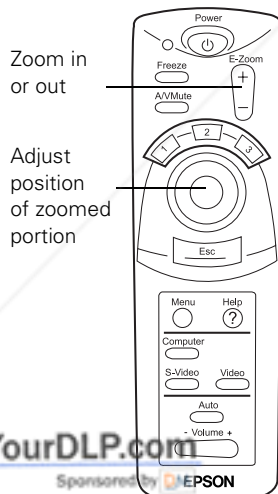
*You can always move the projector closer to or farther from the screen to adjust the image size.*



### Using the E-Zoom Button

If you want to zoom in on a portion of the image, use the **E-Zoom** and **Enter** buttons on the remote control. Press the **+** side of the **E-Zoom** button to zoom into your image in small increments. Press the **-** side to zoom out.

To position the zoomed image on the screen, press the top, bottom, left, or right side of the **Enter** button on the remote control. (Press **Esc** to return your image to its original size and turn off E-Zoom.)



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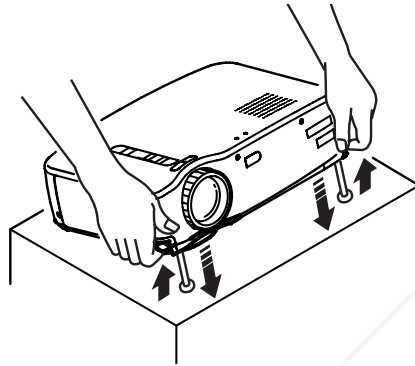
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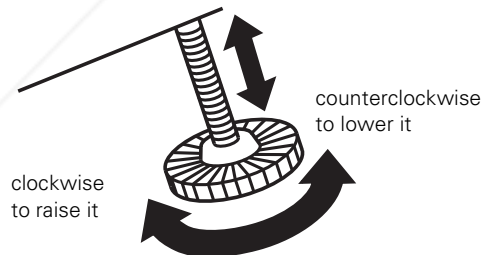
## Adjusting the Image Height

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

1. Stand behind the projector. Pull up the blue foot release levers and lift the front of the projector. This unlocks the feet.



2. Raise or lower the front of the projector as necessary.
3. Once the image is positioned where you want it, release the levers to lock the feet into position.
4. To fine-tune the height, rotate the feet clockwise to raise the projector and counterclockwise to lower it.



### caution





*To avoid damaging the lens, do not lift the projector by the lens.*

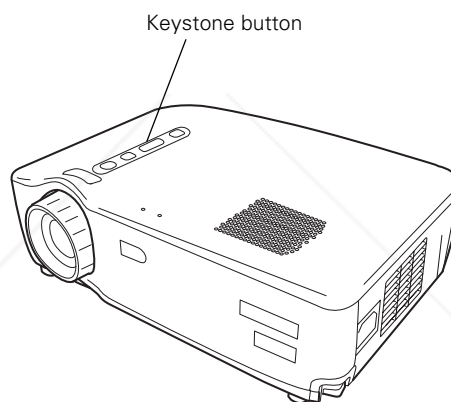
### note

*If the image shape is not square after adjusting its position, see the next section for a solution.*

## Adjusting the Image Shape

If the projected image isn't square or has a "keystone" shape, do one or more of the following:

- If your image looks like  or , you've placed the projector off to one side of the screen, at an angle. Move it directly in front of the center of the screen, facing the screen squarely.
- If your image looks like  or , press the + or – side of the **Keystone** button to correct the shape of the image. The **Keystone** button corrects up to a 15° tilt. After correction, your image will be slightly smaller.



### note

If the image is noticeably uneven after keystone correction, reduce the Sharpness setting using the Video menu; see page 39 for instructions.

You can also perform electronic keystone correction using the projector's Setting menu. See page 42 for instructions.

## Adjusting the Image Quality

You may need to adjust the projector's Tracking and Sync settings if your computer image has any of these quality problems:

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

See Chapter 3 for instructions on adjusting these settings in the projector's Video menu.

### note

You can also increase computer image clarity by pressing the **Auto** button on the remote control to optimize the tracking, sync, and position settings. Turn off E-Zoom and A/V Mute before using the **Auto** button; see page 28 and page 34.



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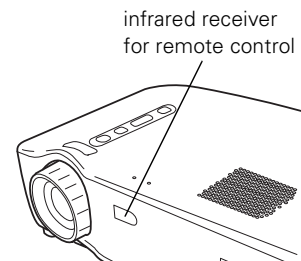
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## Using the Remote Control

The remote control lets you access projector features from anywhere in the room—up to 32 feet away. You must also be within a 30° horizontal and a 15° vertical angle of the infrared receiver on the front of the projector.

You can use the remote control to turn the projector on and off, zoom the image, display the projector menus, and other uses. If you connected a mouse cable to the projector, you can also use the remote control as a wireless mouse to run your presentation. See page 32 for instructions.



### note

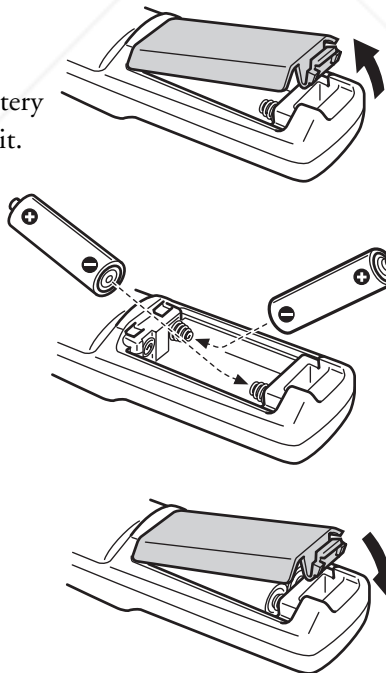
*You can aim the remote control at your projection screen and reflect the signal back into the sensor on the front of the projector, but this shortens the operating distance of the remote control.*

## Installing the Remote Control Batteries

The remote control operates the projector and lets you access its setup menus. You can also use it as a wireless mouse.

Follow these steps to install the batteries:

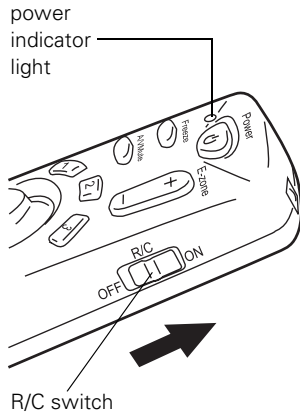
1. Press the tab to release the battery cover and lift it up to remove it.
2. Insert the two AA batteries included with the projector as shown.
3. Replace the battery cover.



### caution

*When replacing batteries, take the following precautions:*

- Replace batteries as soon as they run out.
- Do not mix old and new batteries.
- If the batteries leak, wipe away battery fluid with a soft cloth. If fluid gets on your hands, wash them immediately.
- Remove batteries if you will not be using the remote for a long period of time.



## Operating the Projector with the Remote Control

1. Push up the R/C switch on the side of the remote control to turn it on.
2. Point the remote at the front of the projector or at the screen.
3. Press the button for the function you want to use. The light next to the **Power** button on the remote control flashes briefly. (If it doesn't flash, you may have inserted the batteries incorrectly or need to change the batteries; see page 31 for instructions.)

The projector may not respond to remote control commands in these conditions:

- You are too far away or not within a 30° horizontal or 15° vertical angle of the projector's sensor
- The R/C switch on the right side of the remote control is in the OFF position (the remote control is turned off)
- Batteries are weak
- Bright ambient light, fluorescent light, or direct sunlight is shining into the remote control sensor
- Equipment emitting infrared energy (such as a radiant room heater) is nearby and interfering with the sensor

### note

*When you connect the mouse cable, your computer mouse is disabled and you can't use another external mouse with your desktop. However, you may still be able to use the built-in mouse pointer on your laptop.*

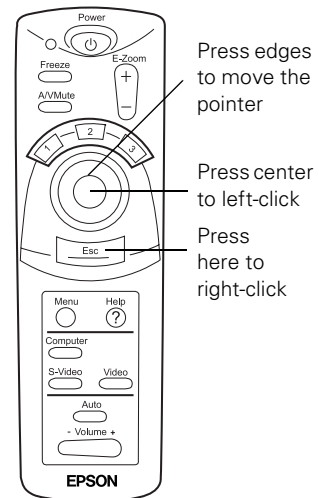
## Using the Remote Control as a Wireless Mouse

Using the remote control as a wireless mouse gives you more flexibility; you don't need to stay near your computer or the projector to run your presentation.

To use the remote control as a mouse, you must first connect a mouse cable between your computer and the projector. See Chapter 1 for instructions.

Follow these instructions to use your remote control as a wireless mouse:

- Aim the remote at the screen or at the receiver on the front of the projector. To move the mouse pointer on the screen, press the edges of the **Enter** button with your thumb, as you would to move a trackball.
- To click, press down on the center of the **Enter** button. To double-click, press down twice on the **Enter** button.
- To click and drag, press down on the **Enter** button and then tilt it in the direction you want to drag.
- To right-click, press the **Esc** button.
- To change slides in a PowerPoint® presentation (in Slide Show mode), press down on the **Enter** button.



## Controlling Audio and Video

While giving your presentation, you may want to switch between picture sources, temporarily turn off or freeze the picture, or adjust the volume.

Make sure you've first set up your projector and connected your audio or video source as described in Chapter 1.

### Switching Between Picture Sources

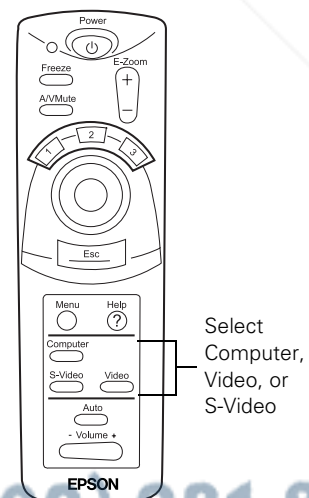
You can connect the projector simultaneously to one computer source and one video source. Then you can use the buttons on the projector or remote control to switch between them.

- Press the **Source** button on the projector to switch between computer, S-video, and composite video sources.
- Press the **Computer**, **Video**, or **S-Video** button on the remote control to select the source you want to use.

After you select a source, the screen goes dark for a moment before the image appears.

#### **note**

*If you swapped the mouse button functions on your computer mouse, the **Enter** and **Esc** buttons on the remote control also swap functions.*

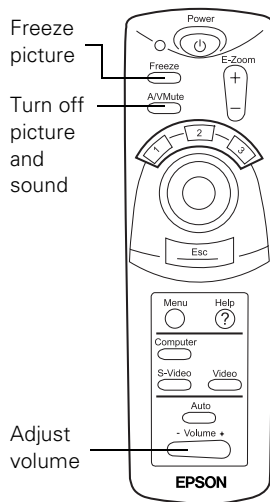




## Freezing the Picture

You can use the remote control to freeze the current picture on the screen.

- Press the **Freeze** button to freeze the current image on the screen. The sound will continue.
- Press the **Freeze** button again to re-start it.



## Turning Off the Picture and Sound

You can use the **A/V Mute** button on the remote control to turn off the image and sound. This lets you temporarily re-direct your audience's attention without the distraction of a bright screen.

- To turn off the picture, press the **A/V Mute** button. The screen goes dark.
- To turn the image back on, press the **A/V Mute** button again.

You can change the color of the blank screen displayed while **A/V Mute** is on using the Setting menu; see page 38 for instructions.

## Adjusting Sound Volume

Using the remote control, you can adjust the volume of your video or computer sounds.

- To increase the volume, press on the right (+) side of the **Volume** button.
- To decrease the volume, press on the left (–) side of the **Volume** button.



## Highlighting Your Presentation


The projector's highlighting tools let you emphasize areas on the screen using the numbered buttons on the remote control. This is useful for annotating your presentation slides or calling attention to their most important points. These tools are available:

- Arrow or cursor stamp (button 1)
- Horizontal bar (button 2)

You can use the Effect menu to customize the highlighting tools. See page 41 for instructions.

### Using the Cursor/Stamp Arrow

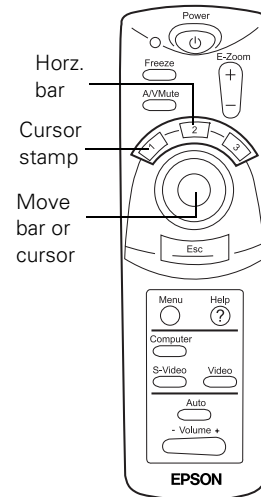
You can use the cursor stamp tool as a pointer and place cursor stamps anywhere on your screen.

1. To activate the cursor stamp, press the 1 button on the remote control. A  icon appears on the screen.
2. Press the side of the Enter button to move the pointer wherever you want it.
3. To “paste” the pointer on the screen, press down in the center of the Enter button. You can then continue to move another pointer around the screen and paste it wherever you want.
4. To erase the pointers pasted on the screen, press the 3 button.
5. To cancel the cursor stamp feature, press the Esc button.

### Drawing a Horizontal Bar

You can place a horizontal bar on the screen and move it up or down to highlight your presentation points.

1. To activate the bar tool, press the 2 button on the remote control. A magenta horizontal bar appears in the middle of the screen.
2. Press the top or bottom of the Enter button to move the bar up or down the screen.
3. To erase the bar from the screen, press the Esc button.



#### note

You can use the projector's Effect menu to select a different cursor stamp shape and size. See page 41 for instructions.



#### note


You can change the width and color of the bar using the projector's Effect menu. See page 41 for instructions.

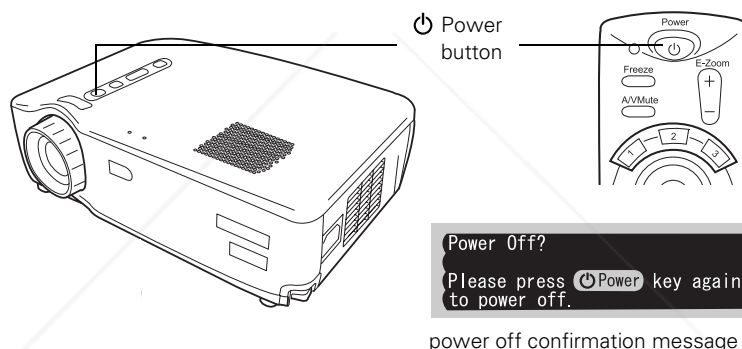
## Shutting Down the Projector

When you've finished using the projector, follow the recommended procedure to shut it down. This extends the life of the lamp and protects the projector from possible overheating.




### note



*If sleep mode is enabled and the projector has not received any input signals for 30 minutes, it automatically turns off the projector lamp and enters "sleep mode." This conserves electricity, cools the projector, and extends the life of the lamp. In sleep mode, the  Power light is orange. If you are done using the projector, unplug the power cord. If you want to start projecting again, press the  Power button on the projector or the remote control.*

1. If you've connected a computer or laptop and it's displaying only through the projector, shut down the computer first; otherwise you won't be able to see your computer's display if you try turning it off after the projector.
2. Press the red  Power button on top of the projector or on the remote control. You see a confirmation message. (If you don't want to turn it off, press any other button.)




power off confirmation message

3. Press the  Power button again. The  Power light flashes orange for a couple of minutes as the projector cools down. When the projector has cooled, the orange  Power light stays on and the fan shuts off.

If you want to turn the projector on again, wait until the orange  Power light stops flashing. Then press the  Power button.

4. Replace the lens cap, retract the projector feet, and unplug the power cord. Also turn off the remote control, if you were using it.
5. If you're using a VCR or other video source, turn it off after you turn off the projector.
6. Disconnect all equipment, and store the projector in a protective case.

### caution

*To avoid damaging the projector or lamp, never unplug the power cord when the  Power light is green or flashing orange.*

# 3

## *Fine-Tuning the Projector*

You can use the on-screen menus to adjust the image, sound, and other features of your projector. This chapter covers the following information:

- Using the menus
- Adjusting the image
- Adjusting the sound
- Customizing the highlighting tools
- Customizing projector features
- Viewing projector information
- Restoring the default settings

---

### *Using the Menus*

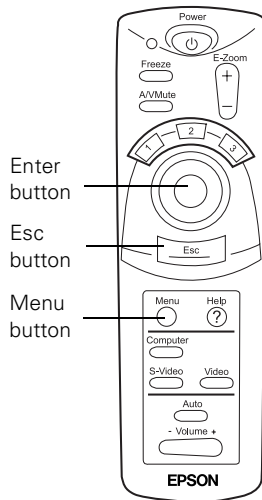
These on-screen menus let you adjust and customize the projector features from the remote control:

- **Video** controls the look and quality of the projected image (from a computer or video source).
- **Audio** adjusts the sound volume and tone.
- **Effect** customizes the highlighting tools available on the remote control.
- **Setting** adjusts features such as the keystone setting, blank screen color, message prompt, and sleep mode.
- **Advanced** controls settings such as menu language, color intensity, and rear or ceiling projection.

- **About** provides information about the current projector and lamp settings, and lets you reset the lamp timer when you've replaced the projector's lamp.
- **Reset All** restores the factory defaults to all the projector settings.

## Changing Menu Settings

You use the **Menu**, **Enter** and **Esc** buttons on the remote control to change menu settings.



1. To display the main menu, press the **Menu** button. The menus are displayed on the left, and the options available for the current menu are shown on the right.



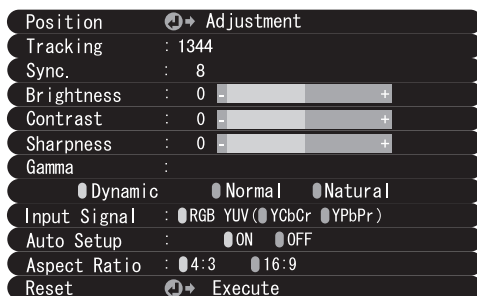
2. Press the top or bottom of the **Enter** button to scroll up or down through the menus and view the available options.
3. Press the center of the **Enter** button to select a menu. The highlight moves to the first menu option for that menu.
4. Press the bottom or the top of the **Enter** button to scroll through the options. Press the right or left side of the **Enter** button to change the setting.
- If you want to go back to the default settings on any menu, select **Reset**, press **Enter**, select **Yes**, and then press **Enter**.
5. Press the **Esc** button to save your changes and go back to the main menu.
6. Press the **Menu** button to exit the menu system.

The rest of this chapter describes the menu options.

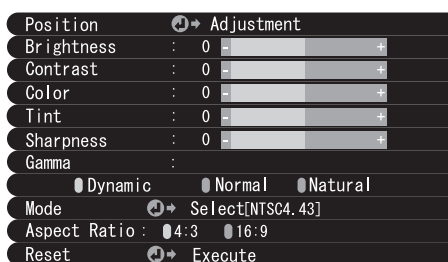
## Adjusting the Image

You can make a variety of image adjustments with the Video menu.

The options available in the menu depend on which source is connected to the projector: computer or video.



Computer or component video source menu



Video source menu

### Video menu

Menu item	Description
Position	Moves the displayed image up, down, left, or right. Use the <b>Enter</b> button to move the screen position in the corresponding direction.
Tracking*	Removes vertical lines from the computer image by matching the projector's internal clock to various computer graphic signals.
Sync*	Corrects fuzziness or screen flicker by synchronizing the projector with the computer's tracking signal. Always adjust the Tracking before adjusting the Sync.
Brightness	Lightens or darkens the overall image. Increase brightness to lighten an image, or decrease it to darken the image. Press the right or left side of the <b>Enter</b> button to adjust the setting and see the results.
Contrast	Adjusts the difference between light and dark areas. Increase the contrast to make light areas lighter and dark areas darker. Decrease it to minimize the difference between light and dark areas. Press the right or left side of the <b>Enter</b> button to adjust the setting and see the results.
Color**	Adjusts the color depth of the video input source. Increase the color setting for more intense color on the screen, and lower the setting for less intense color. Press the right or left side of the <b>Enter</b> button to adjust the setting and see the results.
Tint**	Adjusts the tint of the video image colors. Increasing the Tint setting strengthens the red tint. Decreasing it strengthens the green tint. Press the right or left side of the <b>Enter</b> button to adjust the setting and see the results.

### Video menu

Menu item	Description
Sharpness	Adjusts the sharpness of the image. (If keystone correction adversely affects the image, decrease the Sharpness setting.) Press the right or left side of the <b>Enter</b> button to adjust the setting and see the results.
Gamma	Adjusts the vividness of image colors. Choose <b>Dynamic</b> for distinctly contrasted images, such as charts. Choose <b>Normal</b> to select medium contrast. Choose <b>Natural</b> to weaken contrast for more naturally colored images, such as photographs.
Input Signal*	Selects the input signal of your computer or component video equipment. Choose <b>RGB</b> for computer images. Choose <b>YUV</b> for component video images. Choose <b>YCbCr</b> for DVD images. Choose <b>YPbPr</b> for HDTV images.
Auto Setup*	Set to ON to have the projector automatically optimize the computer image for projection.
Mode**	Selects the video image signal mode: Automatic or Manual. (For PAL 60 Hz mode, set to Manual.)
Aspect Ratio***	Selects the aspect ratio for YCbCr or YPbPr component video images.
Reset	Returns all Video menu settings to their factory defaults.

\* Available only when Computer is selected as the input source.

\*\* Available only when Video is selected as the input source.

\*\*\* Available only when you're projecting component video images.

## Adjusting the Sound

You can use the Audio menu to adjust the sound volume or quality.

### Audio menu

Menu item	Description
Volume	Adjusts the sound volume level output from the projector. Press the right or left side of the <b>Enter</b> button to adjust the setting.
Tone	Adjusts the sound quality by increasing or decreasing the treble. Press the right or left side of the <b>Enter</b> button to adjust the setting.
Audio Input*	Selects the audio input source. Select Auto to automatically choose the current video input source, or select Computer or Video exclusively.
Reset	Returns the Audio menu settings to their factory defaults.

\* For component video sources, select Video.

## Customizing the Highlighting Tools

You can use the Effect menu to customize the highlighting tools, as described on page 35, and set the cursor speed.

### Effect menu

Menu item	Description
Cursor/Stamp	Selects the stamp you want to use as the cursor graphic and lets you enlarge it.
Horizontal Bar	Selects the color and width of the horizontal bar.
Cursor Speed	Adjusts the cursor speed to Low, Medium, or High.
Reset	Returns the Effect menu settings to their factory defaults.

## Customizing Projector Features

You can use the Setting menu and the Advanced menu to adjust a variety of projector functions.

### Setting menu

Menu item	Description
Keystone	Corrects a trapezoid-shaped, distorted image to a 4:3 ratio rectangle, adjusting up to a $\pm 15^\circ$ tilt. Press the right or left side of the <b>Enter</b> button to adjust the setting and see the results.*
No-Signal/Msg	Specifies whether no screen, a black screen, or a blue screen is projected when no video signals are received.
Prompt	Controls whether the projector displays a temporary message indicating the current input source (Computer or Video).
A/V Mute	Controls whether the projector displays a blue or black screen when the <b>A/V Mute</b> button is pressed.
Sleep Mode	Enables or disables sleep mode, which turns off your projector's lamp when it hasn't received any image signals for 30 minutes. Press the <b>Power</b> button on the projector or the remote control to resume projection.
Reset	Returns the Setting menu options to their factory defaults.

\* You can also use the Keystone button on the projector to adjust this setting. If the image is noticeably uneven, reduce the Sharpness setting on the Video menu.

### Advanced menu

Menu item	Description
Language	Selects the language the projector uses in the menus: English, French, German, Italian, Spanish, Portuguese, Japanese, Chinese, or Korean.
Color Setting	Selects the color temperature and RGB (red, green, blue) settings of the image. Increasing the color temperature creates cooler whites and decreasing it creates warmer whites. Increasing the RGB intensity strengthens the colors and decreasing it weakens the colors.
Rear Proj.	Mirrors the projected image on its left-right axis so it appears correctly when you're projecting from behind onto a transparent screen.
Ceiling	Flips the projected image on its top-bottom axis so it appears correctly when you mount the projector upside-down from the ceiling.
Reset	Returns the Advanced menu settings to their factory defaults.



## Viewing Projector Information

The About menu lets you view information about the display settings of your computer, your video signal mode, and the number of hours the lamp has been used. The options available in the menu depend on which source is connected to the projector: computer or video.

### note

*The life span of the projector lamp is approximately 1500 hours. If the number shown in the About menu is close to 1500, make sure you have a spare lamp handy. See page 6 for part number and ordering information.*

Lamp	:	0 H
Reset Lamp Timer	:	Execute
Video Source	:	Computer
Input Signal	:	RGB
Frequency	:	H 48.52 kHz
	:	V 60.1 Hz
SYNC Polarity	:	H Positive
	:	V Negative
SYNC Mode	:	Separate Sync
Resolution	:	1024 x 768
Refresh Rate	:	60.1 Hz

Computer or component video source menu

Lamp	:	0 H
Reset Lamp Timer	:	Execute
Video Source	:	Video
Video Signal	:	Auto (NTSC4.43)

Video source menu

### About menu

Menu item	Description
Lamp	Displays the number of hours the current lamp has been used.
Reset lamp timer	Sets the cumulative lamp time to zero; use this when you've replaced the projector lamp, as described on page 48.
Video Source	Displays the currently selected input source: Computer or Video.
Input Signal*	Displays the computer or component video input signal.
Frequency*	Displays the projector's horizontal and vertical frequency.
Sync Polarity*	Displays the computer's sync polarity.
Sync Mode*	Displays the computer's sync mode.
Resolution*	Displays the resolution of the computer's video output.
Refresh Rate*	Displays the refresh rate of the computer's video output.
Video Signal**	Displays the input image signal mode.

\* Available only when Computer is selected as the input source.

\*\* Available only when Video is selected as the input source.

## *Restoring the Default Settings*

The **Reset All** setting lets you return all the projector's menu settings to their initial factory defaults, except for the Lamp and Language settings.

Select **Reset All** and press the **Enter** button on the remote control to display the confirmation screen. Select **Yes** to reset all the default settings or **No** to cancel.

# 4

## *Maintaining and Transporting the Projector*

### **warning**

*Before you clean any part of the projector, turn it off and unplug the power cord. Never open any cover on the projector, except the lamp cover. Dangerous electrical voltages in the projector can injure you severely. Do not try to service this product yourself, except as specifically explained in this User's Guide. Refer all other servicing to qualified service personnel.*

Your projector needs little maintenance. All you need to do on a regular basis is keep the lens clean. Any dirt or smears on the lens will show up on your projected image.

You also need to periodically clean the air intake vent on the side of the projector. A clogged vent can block ventilation needed to cool the projector and keep it from overheating.

The only parts you should replace are the lamp and air intake vent (if necessary). If any other part needs replacing, contact your dealer or a qualified service person.

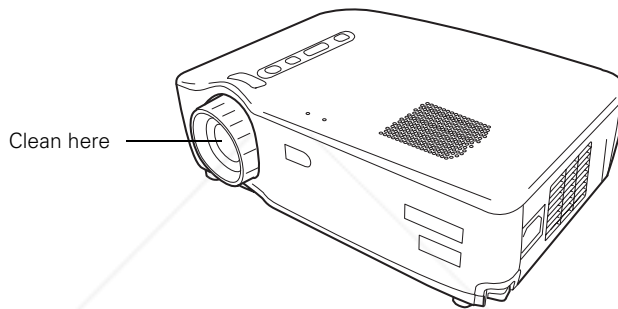
This chapter covers the following:

- Cleaning the lens
- Cleaning the projector case
- Cleaning the air intake vent
- Replacing the lamp
- Transporting the projector

## *Cleaning the Lens*

Clean the lens whenever you notice dirt or dust on the surface.

- To remove dust, use a canister of compressed air to spray the lens surface, or lightly wipe the lens surface with a soft, dry, lint-free cloth.
- To remove dirt or smears, use lens-cleaning paper. If necessary, moisten a soft cloth with an alcohol-based cleaner and gently wipe the lens surface.




## *Cleaning the Projector Case*

Before you clean the projector case, turn off the projector and unplug the power cord.

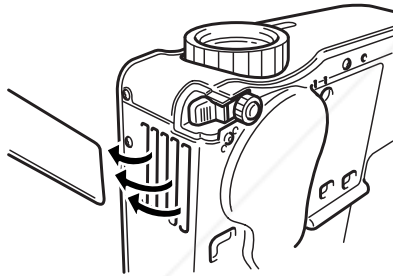
- To remove dirt or dust, wipe the outside with a soft, dry, lint-free cloth.
- To remove stubborn dirt or stains, clean the case using a soft cloth moistened with water and a neutral detergent. Dry it using a separate cloth.
- Do not use alcohol, benzene, thinner, wax, or other chemicals. These can damage the case.

## *Cleaning the Air Intake Vent*

Clean the air intake vent after every 100 hours of use, or if the  **Error** light on top of the projector turns red.

If the vent is not cleaned periodically, it can become clogged with dust, preventing proper ventilation. This can cause overheating and damage the projector. Follow these steps to clean the vent:

1. Turn off the projector, let it cool down, and unplug the power cord.
2. Stand the projector on its back panel with the lens pointing upward.



3. To clean the vent, EPSON recommends using a small vacuum cleaner designed for computers and other office equipment. If you don't have one, use a dry, lint-free cloth.

If the dirt is difficult to remove, replace the air intake vent. You can purchase the part from your dealer, or by calling EPSON at (800) 873-7766, or by visiting the EPSON Store at [www.epsonstore.com](http://www.epsonstore.com) (U. S. sales only). In Canada, please call (800) 873-7766 for dealer referral.

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**note**

*To view the number of hours your lamp has been used, check the About menu; see page 38 for instructions.*

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## Replacing the Lamp

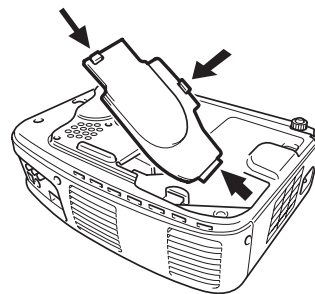
The projection lamp typically lasts for about 1500 hours of use. It is time to replace the lamp when:

- The projected image gets darker or starts to deteriorate.
- The  Error light on top of the projector is flashing red in 1-second intervals.
- The LAMP REPLACE message appears on the screen when the projector lamp comes on (after about 1500 hours of use). To maintain projector brightness and image quality, replace the lamp as soon as possible after you see the message.

To order a replacement lamp (part number ELPLP13), contact your dealer or call EPSON at (800) 873-7766 or visit the EPSON Store at [www.epsonstore.com](http://www.epsonstore.com) (U. S. sales only). In Canada, please call (800) 873-7766 for dealer referral.

Follow these steps to replace the lamp:

1. Turn off the projector, let it cool down, and unplug the power cord.
2. Allow the projector to continue cooling for at least one hour (if it has been on).
3. Turn the projector upside-down to access the lamp compartment.
4. To remove the lamp cover, press on the two tabs and pull out the cover.



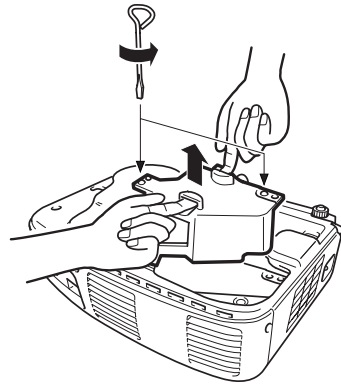
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**warning**

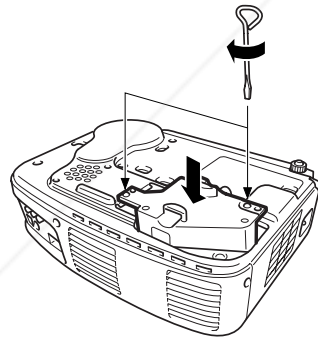
*Let the lamp cool before replacing it. To avoid premature lamp failure, do not touch the glass portion of the lamp assembly.*

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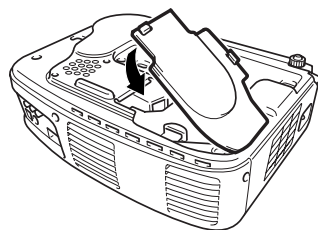
5. Use a screwdriver to loosen the two lamp cover screws; you can't remove the screws. Then pull out the lamp by the two notches.




6. Position the new lamp correctly, then gently insert it into the projector. Press it into place and tighten the retaining screws.



7. Insert the lamp cover as shown and press it back into place.



### **caution**

*Make sure the lamp cover is securely fastened; the  Error light flashes and the projector lamp won't turn on if the cover is open.*

8. Follow the instructions in Chapter 3 to access the projector's About menu and reset the lamp counter to zero.

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**note**

*EPSON shall not be liable for any damage incurred during transportation.*

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## *Transporting the Projector*

The projector contains many glass and precision parts. If you need to transport it, please follow these packing guidelines to prevent damaging the projector:

- When shipping the projector for repairs, use the original packaging material if possible. If you do not have the original packaging, use equivalent materials, placing plenty of cushioning around the projector.
- When transporting the projector as freight or checked luggage, first put it in a carrying case (such as an EPSON case), then pack it in a firm box, using cushioning around the case.
- When you're hand-carrying the projector, be sure to use a carrying case (such as an EPSON case).



# 5

## *Solving Problems*

This chapter helps you diagnose and solve problems with your projector and provides technical support information for problems you can't solve yourself.

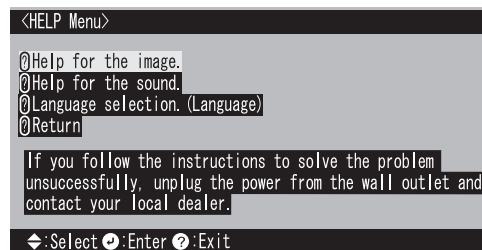
This chapter tells you how to:

- Use the projector's on-screen help system
- Check the projector's status using its lights
- Solve image or sound problems
- Solve remote control problems

If none of the suggestions here solve the problem, see "Where To Get Help" on page 58.

### *Using the On-Screen Help*

If you have a problem while setting up or using your projector, you can get help by pressing the ? Help button on top of the projector or the remote control.



The following choices are available:

- **Help for the image**  
Tells you how to solve problems with a blank screen, blurry images, brightness, colors, and image shape
- **Help for the sound**  
Provides help for problems with lack of audio
- **Language Selection**  
Lets you choose to display the help information and projector menus in any of 8 different languages.
- **Return**  
Exits the help system.

Follow these steps to get help:

1. Press the ? **Help** button. You see the main help menu.
2. To select the help menu you want, press the bottom or top of the **Select (Keystone)** button on the projector, or the bottom or top of the **Enter** button on the remote control.
3. Press the **Enter (Source)** button on the projector or the center of the **Enter** button on the remote control to select your help topic. Depending on the topic, you may see another menu or a list of solutions.
4. To exit the Help system, press the ? **Help** button on top of the projector or the remote control.

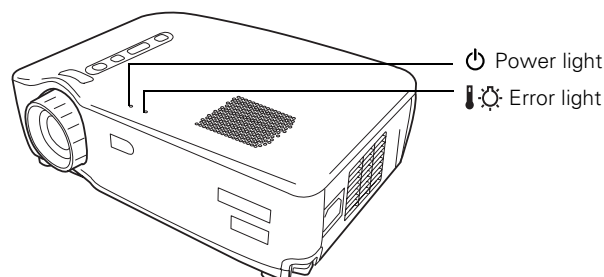
If none of the Help menu choices solve your problem, see the solutions in the rest of this chapter.

## Checking the Projector's Lights

If your projector isn't working correctly, first turn it off, wait for it to cool, 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 problems with projector operations.

### warning




*Except as specifically explained in this User's Guide, do not attempt to service this product yourself.*



Light	Status	Description and action
⏻	off	The projector is unplugged. Press the ⏻ <b>Power</b> button to turn off the projector, check that the power cable is connected securely at both ends, then press the ⏻ <b>Power</b> button again to turn on the projector.
⏻	orange	The projector is in sleep mode. You can unplug it to disconnect the power or press the ⏻ <b>Power</b> button to turn on the projector lamp.
⏻	flashing green	The projector is warming up. Wait for the image to appear.
⏻	green	The projector is operating normally.
⏻	flashing orange	The projector lamp is off and the projector is cooling down. Wait until the light stops flashing and then press the ⏻ <b>Power</b> button to turn on the projector. (You can't turn the projector on or unplug it when the light is flashing orange.)
🔥💡	flashing red at 1-second intervals	The lamp cover is not closed securely or the lamp has burned out. Secure the lamp cover or replace the lamp; see page 48 for instructions.
🔥💡	red	The projector is too hot. Turn it off and let it cool before using it. Also make sure nothing is blocking the projector's air intake vent. If it continues to overheat, clean the air intake vent; see page 47 for instructions.
🔥💡	flashing orange	The projector lamp has turned off automatically because the projector has overheated. Let it cool for a few minutes, then turn it back on. Also make sure nothing is blocking the projector's air intake vent. If it continues to overheat, clean the air intake vent; see page 47 for instructions.
🔥💡	flashing red at 2-second intervals	There is an internal problem with the projector. Unplug it from the electrical outlet and contact EPSON for help.

## *Image or Sound Problems*

### **No image appears or the No Signal message is displayed.**

- Check that the  Power light is green and not flashing and the lens cover is off. If the  Power light is orange, the projector is in sleep mode; press the  Power button to wake it up.
- Your computer's screen saver may be on. Press a key on the computer keyboard.
- The A/V Mute feature may be turned on. Press the A/V Mute button on the remote control to turn it off, if necessary.
- Make sure the cables are connected correctly, as described in Chapter 1.
- Make sure the correct image source is selected. Press the Source button on top of the projector if necessary.
- Try restarting your computer. You may need to set the display to appear on both the LCD screen and the projector, or to switch between them. See page 25 and check your laptop documentation for instructions.

### **The Not Supported message is displayed.**

The current video signal is not compatible with your projector. See page 62 for a list of compatible signals.

### **The image isn't square, but a trapezoid (keystone) shape.**

This is caused by the projector not facing the screen squarely or by extending the projector's legs to position the image. Position the projector to face the screen squarely or press and hold the + or – side of the Keystone button on top of the projector until the image is squared-up.

### **Only part of the computer image is displayed.**

- If the computer's output resolution setting is higher than  $800 \times 600$  for the (EPSON PowerLite 50c) or  $1024 \times 768$  for the (EPSON PowerLite 70c), the image is resized. If the computer output is not compatible with this resizing, choose a different display setting as follows:

**Windows:** In Windows 95/98/Me/2000, right-click on the desktop, select **Properties**, click the **Settings** tab, and select the resolution you want. In Windows 3.x, use Windows Setup in the Main program group. See Windows help for more information.

**PowerBook or Macintosh:** Choose **Control Panels** under the Apple menu and then choose **Monitors**. In the Monitors screen, choose **Options** and select **Macintosh Hi-Res Display** or another  $800 \times 600$  (for the EPSON PowerLite 50c) or  $1024 \times 768$  (for the EPSON PowerLite 70c) setting. For more information, see your PowerBook documentation. For supported display settings, see page 62.

- You may need to modify existing presentation files if you created them for a different resolution. See your software manual for specific information.

### **The image or parts of it are blurred or out of focus.**

- Adjust the Brightness, Contrast, Sharpness, and/or Gamma settings on the Video menu. If you're viewing a computer image, also try adjusting the Tracking and Sync settings. See page 39 for instructions on using the menu.

When you change video settings, you should be able to see the effect on the screen immediately. Feel free to experiment. You can always select Reset to return to the factory default settings.

- There may be dirt or smears on the lens. Clean the lens by gently wiping it with an alcohol-based cleaner on a soft cloth. See page 46 for more information.

■ Your video signal mode may not be detected automatically. Select **Manual** and then choose the correct signal for the Mode setting on the projector's Video menu; see page 38 for instructions.

### **The image vibrates, flickers, or has vertical lines.**

- Adjust the Tracking and Sync settings on the Video menu (or through the projector's Help system). It is best to project a full screen containing black text on a white background (such as a letter) when you adjust these settings. Hold down the button to change the setting until your image looks correct. See page 39 for instructions on using the Video menu.
- Your video signal mode may not be able to be detected automatically. Select **Manual** and then choose the correct signal for the Mode setting on the projector's Video menu; see page 38 for instructions.

### **The image quality is poor on a laptop computer.**

The video signal may be split between the computer and the projector. Try turning off the laptop LCD display. See your laptop manual or on-screen help for instructions.

### **The colors of the image are not right.**

- If you're displaying video, adjust the Brightness, Contrast, Color, Tint, and/or Gamma settings on the Video menu. See page 39 for instructions.
- If you're displaying computer images, adjust the Brightness, Contrast, and/or Gamma settings on the Video menu. See page 39 for instructions. Also adjust the color temperature and RGB settings using the Color Setting option on the Advanced menu, as described on page 42. If necessary, you can also adjust your computer display settings to correct the color balance.
- Check the current lamp life and replace the lamp, if necessary. See page 43 for instructions on checking the lamp usage using the projector's About menu and page 48 for instructions on replacing the lamp.

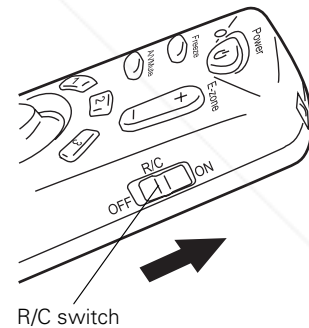
### **There is no sound.**

- Press the right side of the **Volume** button on the remote control to turn up the sound.
- Press the **A/V Mute** button on the remote control to make sure this feature is not enabled.
- Make sure the right source is selected. Press the **Source** button on top of the projector to select the right source.
- Make sure the volume on your computer or video source is not turned all the way down or muted. See your Windows or Macintosh online help for instructions. Also, make sure the cables are connected correctly, as described in Chapter 1.
- Make sure the correct Audio Input signal is selected on the projector's Audio menu; see page 41 for instructions.

## *Problems with the Remote Control*

### **The projector doesn't respond to remote control commands.**

- Make sure the remote control is turned on.
- The remote control batteries may be low on power or inserted incorrectly. Check or replace them following the instructions on page 31.
- Dim the room lights, turn off any fluorescent lights, and move the projector away from direct sunlight. Strong lighting, especially fluorescent lights, may affect the projector's infrared receiver.
- Turn off any nearby equipment that emits infrared energy, such as a radiant room heater.
- Make sure you are within 32 feet of the projector and within a 30° horizontal or 15° vertical angle of the infrared receiver on the front of the projector.
- If you're having trouble using the remote control as a wireless mouse, make sure the mouse cable is securely connected to both ends. See Chapter 1 for details.



## Where To Get Help

EPSON provides technical assistance through electronic support services and automated telephone services 24 hours a day, as listed in the following table:

Service	Access
World Wide Web Technical Support	From the Internet, you can reach EPSON's product support page at <b><a href="http://support.epson.com">http://support.epson.com</a></b> . After selecting your product, you can view frequently asked questions and answers, download product documentation, and receive technical advice through e-mail.
Automated Telephone Services	A variety of automated help services are available 24 hours a day, seven days a week. To use these services, you must have a touch tone telephone and call <b>(800) 922-8911</b> .
Presenters Online	Access tips, templates, and training for developing successful presentations at <b><a href="http://www.presenteronline.com">http://www.presenteronline.com</a></b>

To use the EPSON PrivateLine Support service, call (800) 637-7661 and enter the PIN on the EPSON PrivateLine Support card included in your *Owner's Kit*. This is the fastest way to speak to a live representative, and it's free. This service is available 6 AM to 6 PM, Pacific Time, Monday through Friday, for the duration of your warranty period.

You may also speak to a projector support specialist by dialing one of these numbers (toll or long distance charges may apply):

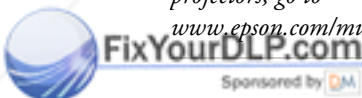
- U.S.: (562) 276-4394, 6 AM to 6 PM, Pacific Time, Monday through Friday
- Canada: (905) 709-3839, 6 AM to 6 PM, Pacific Time, Monday through Friday

Before you call, please have the following information ready:

- Product name (EPSON PowerLite 50c or 70c)
- Product serial number (located on the bottom of the projector)
- Video source (computer, DVD player, etc.) and how it's connected
- Description of the problem

### note

*You can purchase screens, carrying cases, or other accessories from EPSON by calling (800) 873-7766; in Canada, please call (800) 873-7766 for dealer referral. To purchase accessories online or view EPSON's complete product catalog, visit the EPSON Store at [www.epsonstore.com](http://www.epsonstore.com) (U.S. sales only). To see our full line of multimedia projectors, go to [www.epson.com/mul\\_proj](http://www.epson.com/mul_proj).*



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# 6

## *Technical Specifications*

### **General**

Type of display	Poly-silicon Thin Film Transistor (TFT)
Size of liquid crystal panels	Diagonal: 0.7 inch (17.8 mm)
Lens	F=1.5, f=26.3 mm
Focus adjustment	Manual
Zoom ratio	Digital 1.0 to 1.2, lens at maximum size, 100% to 83% (smallest)
Resolution	800 × 600 pixels (EPSON PowerLite 50c) 1024 × 768 pixels (EPSON PowerLite 70c)
Color reproduction	24 bit, 16.7 million colors
Brightness (ANSI)	1000 lumens (EPSON PowerLite 50c) 700 lumens (EPSON PowerLite 70c)
Image size (diagonal)	2.3 to 25 ft (0.7 to 7.6 m)
Projection distance	3.3 to 36 ft (1 to 11 m) in Wide mode 3.9 to 43.2 ft (1.2 to 13.1 m) in Tele mode
Projection methods	Front, rear, upside-down (ceiling mount)
Internal speaker system	1W monaural
Optical aspect ratio	4:3 (horizontal:vertical), adjustable to 16:9 for HDTV, NTSC, PAL, and SECAM images
Keystone correction angle	±15°
Supported video interface standards	NTSC, NTSC4.43, PAL, PAL-M, PAL-N, PAL60, SECAM
EPSON Control Code	ESC/VP Level 5

### ***Projection Lamp***

Type	UHE (Ultra High Efficiency)
Power consumption	150 W
Lamp life	About 1500 hours
Part number	ELPLP13

### ***Remote Control***

Range	32.8 feet (10 meters)
Batteries	Alkaline AA (2)

### ***Mouse Compatibility***

Supports PS/2, USB, and ADB

### ***Dimensions***

Height	3.9 inches (99 mm)
Width	11.9 inches (304 mm)
Depth	9.1 inches (232 mm)
Weight	6.8 lb (3.1 kg)

### ***Electrical***

Rated frequency	50/60 Hz
Power supply	100 to 120 VAC, 2.4 A 200 to 240 VAC, 1.2 A
Power consumption	Operating: 220W Standby: 12W

### ***Environmental***

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

## **Safety**

United States	FCC Part 15J Class B UL1950 Rev. 3
Canada	DOC SOR/88-475 CSA C22.2 No. 950 Rev. 3
CE Marking	Directive 89/336/EEC EN 55022 Class B EN 50082-1 Directive 73/23/EEC EN 60950

## **Computer Connector Pin Assignments**

The Computer port is a female video RGB, 15-pin micro-D-style connector.

Input pin	Computer connector signals
1	Red video
2	Green video
3	Blue video
4	GND
5	GND
6	Red video GND
7	Green video GND
8	Blue video GND
9	Reserve
10	Synchronous GND
11	GND
12	SDA
13	Horizontal sync/composite sync
14	Vertical sync
15	SCL

## Compatible Video Formats

The projector supports the video formats listed below. To project computer images, the computer's video card must be set at a refresh rate (vertical frequency) that's compatible with the projector.

Mode	Resolution	Frequency			EPSON PowerLite 50c	EPSON PowerLite 70c
		H (KHz)	V (Hz)	Pixel (MHz)		
PC (RGB) compatible modes						
VGA CGA	640 x 400	31.46	70	25.175	800 x 500 *	1024 x 640 *
VGA EGA	640 x 350	31.46	70	25.175	800 x 437 *	1024 x 560 *
VGA 60	640 x 480	31.469	59.94	25.175	800 x 600 *	1024 x 768 *
VGA 72	640 x 480	37.861	72.809	31.5	800 x 600 *	1024 x 768 *
VGA 75	640 x 480	37.5	75	31.5	800 x 600 *	1024 x 768 *
VGA 85	640 x 480	48.269	85.008	36	800 x 600 *	1024 x 768 *
VGA Text	720 x 350	31.469	70.087	28.322	800 x 444 *	1024 x 568 *
VGA Text	720 x 400	31.469	70.087	28.322	800 x 388 *	1024 x 497 *
SVGA 56	800 x 600	35.156	56.25	36	800 x 600	1024 x 768 *
SVGA 60	800 x 600	37.879	60.317	40	800 x 600	1024 x 768 *
SVGA 72	800 x 600	48.077	72.188	50	800 x 600	1024 x 768 *
SVGA 75	800 x 600	46.875	75	49.5	800 x 600	1024 x 768 *
SVGA 85	800 x 600	53.674	85.061	56.25	800 x 600	1024 x 768 *
XGA 43i	1024 x 768	35.522	86.958	44.9	800 x 600 *	1024 x 768
XGA 60	1024 x 768	48.363	60.004	65	800 x 600 *	1024 x 768
XGA 70	1024 x 768	56.476	70.069	75	800 x 600 *	1024 x 768
XGA 75	1024 x 768	60.023	75.029	78.75	800 x 600 *	1024 x 768
XGA 85	1024 x 768	68.677	84.997	94.5	800 x 600 *	1024 x 768
SXGA 1-70	1152 x 864	63.851	70.012	94.5	—	1024 x 768 *
SXGA 1-75	1152 x 864	67.5	75	108	—	1024 x 768 *
SXGA 1-85	1152 x 864	77.094	84.999	121.5	—	1024 x 768 *
SXGA 2-60	1280 x 960	60	60	108	—	1024 x 768 *
SXGA 2-75	1280 x 960	75	75	126	—	1024 x 768 *
SXGA 2-85	1280 x 960	85.938	85.002	148.5	—	1024 x 768 *
SXGA 3-43i	1280 x 1024	46.433	86.871	78.75	—	960 x 768*
SXGA 3-60	1280 x 1024	63.981	60.02	108	—	960 x 768*
SXGA 3-75	1280 x 1024	79.976	75.025	135	—	960 x 768*
SXGA 3-85	1280 x 1024	91.146	85.024	157.5	—	960 x 768*
MAC II 13	640 x 480	35	66.67	30.24	800 x 600 *	1024 x 768 *
MAC 16	832 x 624	49.725	74.55	57.28	800 x 600 *	1024 x 768 *
MAC 19-60	1024 x 768	48.193	59.28	64	800 x 600 *	1024 x 768
MAC 19-75	1024 x 768	60.241	74.93	80	800 x 600 *	1024 x 768
MAC 21	1152 x 870	68.682	75.062	100	800 x 600 *	1024 x 768 *

Mode	Resolution	Frequency			EPSON PowerLite 50c	EPSON PowerLite 70c
		H (KHz)	V (Hz)	Pixel (MHz)		
PC (YUV) compatible modes						
HDTV525I (D1) **	640 x 480	15.734	59.94	13.5	800 x 600 *	1024 x 768 *
HDTV525P (D2) **	640 x 480	31.469	59.94	27	800 x 600 *	1024 x 768 *
HDTV750P (D4) **	1280 x 720	45	60	74.25	800 x 450 *	1024 x 576 *
HDTV1125I (D3) **	1920 x 1080	33.75	60	74.25	800 x 450 *	1024 x 576 *
HDTV1125I (D3) **	1920 x 1080	31.25	50.04	74.25	800 x 450 *	1024 x 576 *
Video compatible modes						
NTSC **	640 x 480	15.734	60	—	800 x 600 *	1024 x 768 *
PAL **	720 x 540	15.625	50	—	800 x 600 *	1024 x 768 *
SECAM **	720 x 540	15.625	50	—	800 x 600 *	1024 x 768 *

\* Resize mode (all others native mode)

\*\* Select 4:3 or 16: 9 mode as the Aspect Ratio setting in the Video menu; see page 40 for instructions.



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# 7

## Notices

This chapter includes safety instructions and other important information about your EPSON PowerLite.

### *Important Safety Instructions*

Follow these safety instructions when setting up and using the projector:

- Do not place the projector on an unstable cart, stand, or table.
- Do not use the projector near water or sources of heat.
- Use attachments only as recommended.
- Use the type of power source indicated on the projector. If you are not sure of the power available, consult your dealer or power company.
- Place the projector near a wall outlet where the plug can be easily unplugged.

*Placez le projecteur près d'une prise de contact où la fiche peut être débranchée facilement.*

- Insert the projector's three-wire grounding-type plug into a properly grounded outlet. If you have a two-prong outlet, contact an electrician to replace it. Do not hold the plug with wet hands.
- Take the following precautions for the plug. Failure to comply with these precautions could result in sparks or fire: Do not insert the plug into an outlet with dust present. Insert the plug firmly into the outlet.
- Do not overload wall outlets, extension cords, or integral convenience receptacles. This can cause fire or electric shock.

- Do not place the projector where the cord can be walked on. This may result in fraying or damage to the plug.
- Unplug the projector from the wall outlet before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
- Do not block the slots and openings in the projector case. They provide ventilation and prevent the projector from overheating. Do not operate the projector on a sofa, rug, or other soft surface, or in a closed-in cabinet unless proper ventilation is provided.
- Never push objects of any kind through cabinet slots. Never spill liquid of any kind into the projector.
- Except as specifically explained in this *User's Guide*, do not attempt to service this product yourself. Refer all servicing to qualified service personnel. Opening or removing covers may expose you to dangerous voltages and other hazards.
- Unplug the projector during lightning storms or when it will not be used for extended periods.
- Do not place the projector and remote control on top of heat-producing equipment or in a hot location.
- Unplug the projector from the wall outlet and refer servicing to qualified service personnel under the following conditions: When the power cord or plug is damaged or frayed. If liquid has been spilled into the projector, or if it has been exposed to rain or water. If it does not operate normally when you follow the operating instructions, or if it exhibits a distinct change in performance, indicating a need for service. If it has been dropped or the housing has been damaged.
- If you use the projector in a country other than where you purchased it, use the correct power cable for that country.



## *Remote Control Information*

You can operate the projector by remote control via a line-of-sight infrared (IR) receiver at the front of the projector. The projector may not respond to remote control commands under the following conditions:

- There is an object between the remote control IR emitter and the IR receiver on the projector.
- Ambient light is too bright.
- Certain types of fluorescent lighting are used.
- A strong light source shines into the IR receiver.
- Other equipment that emits infrared energy, such as a radiant room heater, is in the room.

These conditions commonly cause problems for most infrared-controlled equipment. Try the following:

- The remote control unit's batteries may be low on power; replace them.
- Dim the ambient lighting and/or turn off any fluorescent lights.
- Close any window coverings and/or move the projector out of direct sunlight.
- Turn off other equipment that emits infrared energy.

If the remote control still does not work properly, remember you can always control your computer-based presentation directly from the computer, even in an environment containing one of the conditions listed above.

## *Declaration of Conformity*

According to 47CFR, Part 2 and 15

Class B Personal Computers and Peripherals; and/or  
CPU Boards and Power Supplies used with Class B  
Personal Computers

We: EPSON AMERICA, INC.  
Located at: 3840 Kilroy Airport Way  
MS: 6-43  
Long Beach, CA 90806-2469  
Tel: (562) 290-5254

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR §2.909. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Trade Name: EPSON  
Type of Product: LCD Projector  
Model: PowerLite 50c and PowerLite 70c

## *FCC Compliance Statement*

### **For United States Users**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **WARNING**

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

### **For Canadian Users**

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

*Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.*



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