

EPSON STYLUS[™] SCAN 2000

All in One Product

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User's Guide

Declaration of Conformity

According to ISO/IEC Guide 22 and EN 45014

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Declares that the Product:

Product Name: Multi Function Printer
Model: C120A

Conforms to the following Directive(s) and Norm(s):

Directive 89/336/EEC:
EN 55022 Class B
EN 61000-3-2
EN 61000-3-3
EN 50082-1
IEC 801-2
IEC 801-3
IEC 801-4

Directive 73/23/EEC:
EN 60950

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H. Horiuchi
President of EPSON EUROPE B.V.

Contents

Chapter 1 EPSON Stylus Scan Parts and Functions

Stylus Scan Parts and Control Panel Functions	1-2
Control Panel.	1-3

Chapter 2 Safety Instructions

Important Safety Instructions	2-2
A Few Precautions	2-3
When using the Stylus Scan	2-3
When handling the ink cartridges	2-3
When choosing a place for the Stylus Scan	2-4
ENERGY STAR Compliance	2-5
Warnings, Cautions, and Notes.	2-5

Chapter 3 Loading the Paper

Loading the Paper	3-2
Loading Plain Paper	3-2
Loading Special Paper and Other Media	3-3
About special media cleaning sheets	3-7
Loading Envelopes	3-7
Using EPSON Photo Paper	3-8
Loading	3-9
Removing the perforated margins	3-10
Storing EPSON Photo Paper	3-12

Chapter 4 Using the Printer Software for Windows

Printer Software Introduction	4-2
Getting more information	4-2
Accessing the printer software	4-2

Making Changes to Printer Driver Settings	4-4
Making the Media Type setting	4-5
Using the Automatic setting	4-7
Using the Photo Enhance setting	4-8
Using the Custom settings.....	4-9
Using the Advanced settings.....	4-10
Previewing your print out	4-12
Modifying the printout style	4-13
Using the Printer Utilities	4-21
Status Monitor 3	4-22
Nozzle Check	4-22
Head Cleaning	4-22
Print Head Alignment	4-22
Printer and Option Information	4-23
Speed & Progress.....	4-24
Getting Information Through Online Help	4-26
Accessing help from your application	4-26
Accessing help from the Start menu.....	4-26
Increasing the Print Speed	4-27
Making general speed adjustments	4-27
Using the High Speed Copies feature	4-29

Chapter 5 Checking Printer Status and Managing Print Jobs for Windows

Using the Progress Meter	5-2
Using the EPSON Spool Manager	5-4
Using EPSON Status Monitor 3	5-4
Accessing EPSON Status Monitor 3	5-5

Chapter 6 Using the Printer Software for Macintosh

Printer Software Introduction.....	6-2
Making Changes to Printer Driver Settings	6-2
Making the Media Type settings.....	6-4
Using the Automatic settings	6-6
Using the Photo Enhance setting	6-6

Using the Custom settings	6-7
Using the Advanced settings	6-8
Saving and deleting your Advanced settings	6-10
Using your saved settings	6-11
Changing the page setup	6-11
Defining a custom paper size	6-12
Modifying the layout	6-14
Setting the print time	6-19
Previewing your printout	6-20
Saving print data in files	6-22
Using the Printer Utilities for Macintosh	6-23
EPSON StatusMonitor	6-24
Nozzle Check	6-24
Head Cleaning	6-24
Print Head Alignment	6-24
Configuration	6-25

Chapter 7 Checking Printer Status and Managing the Print Jobs for Macintosh

Using the EPSON StatusMonitor	7-2
Making Configuration Settings	7-3
Controlling Background Printing	7-4
Using EPSON Monitor3	7-5
Changing the priority of print jobs	7-7

Chapter 8 Scanner

Loading the Document	8-2
Loading thin or fragile media	8-3
For Windows	8-5
Using the EPSON SMART PANEL	8-5
Scanning from software applications	8-11
For Macintosh	8-12
Scanning with PageManager	8-12
Scanning with applications other than PageManager	8-13
Understanding the Configuration settings	8-16

Chapter 9 Copier

Loading the Paper	9-2
Using the Copy Utility (from EPSON SMART PANEL)	9-3
Accessing the Copy Utility.....	9-3
Making Copy Settings in the Copy Utility	9-4
Copying Using Stylus Scan's Control Panel.....	9-7
Selecting the Ratio and the Mode	9-7
Setting the magnification	9-7
Selecting the copy mode.....	9-8
Checking the current paper size for copying	9-9
Changing the paper size for copying	9-10

Chapter 10 Replacing Ink Cartridges

Replacing Empty Ink Cartridges	10-2
Using the control panel	10-2
Replacing a color ink cartridge	10-3
Replacing a black ink cartridge.....	10-7
Using the Status Monitor 3	10-11
Replacing an Old or Damaged Ink Cartridge	10-11

Chapter 11 Maintenance

Checking the Print Head Nozzles	11-2
Using the Nozzle Check utility	11-2
Using the control panel buttons	11-3
Cleaning the Print Head	11-5
Using the Head Cleaning utility	11-5
Using the control panel buttons	11-9
Aligning the Print Head	11-10
Calibrating Your System.....	11-11
Calibrating Your Screen	11-12
Cleaning the EPSON Stylus Scan.....	11-14
Transporting the EPSON Stylus Scan	11-15

Chapter 12 Troubleshooting

Diagnosing the Problem	12-2
Error indicators	12-3
Status Monitor 3	12-5
Running a printer operation check	12-5
Printing and Copying Problems	12-8
Print and copy quality could be better	12-8
The Stylus Scan does not print or copy	12-12
Paper does not feed correctly	12-15
Printout is not what you expected	12-17
Scanning Problems	12-20
Troubleshooting scanning problems	12-20
Something is missing or incorrect in the scanned image	12-21
The placement of text and graphics on the page is incorrect	12-22
Scanned quality is poor	12-22
Paper does not properly feed into or eject from the Stylus Scan	12-23
Improving scan speed	12-24
Troubleshooting the Parallel Port (Windows 98/95)	12-24
Printing or scanning speed is slow	12-24
A communication error occurs during printing or scanning	12-25
USB (Windows 98) Installation Problems	12-26
USB Printer Device Driver or Stylus Scan Driver (Printer) Problems	12-26
Stylus Scan driver (scanner) problems	12-29
Where to Get Help	12-34

Chapter 13 Options and Consumable Products

Options	13-2
Consumable products	13-2

Appendix A Tips for Color Printing

Basics of Color	A-2
Image Resolution and Image Size	A-6
Guidelines for Using Color	A-7

Appendix B Product Specifications

Printing	B-2
Paper	B-2
Printable area	B-5
Mechanical	B-7
Ink Cartridges	B-7
Scanning	B-9
Electrical	B-10
Environmental	B-10
Initialization Methods	B-11
Safety Approvals	B-11
Interface Specifications	B-12
Parallel interface	B-12
USB interface	B-13
System Requirements	B-14
For PCs	B-14
For Macintosh computers	B-15

Glossary

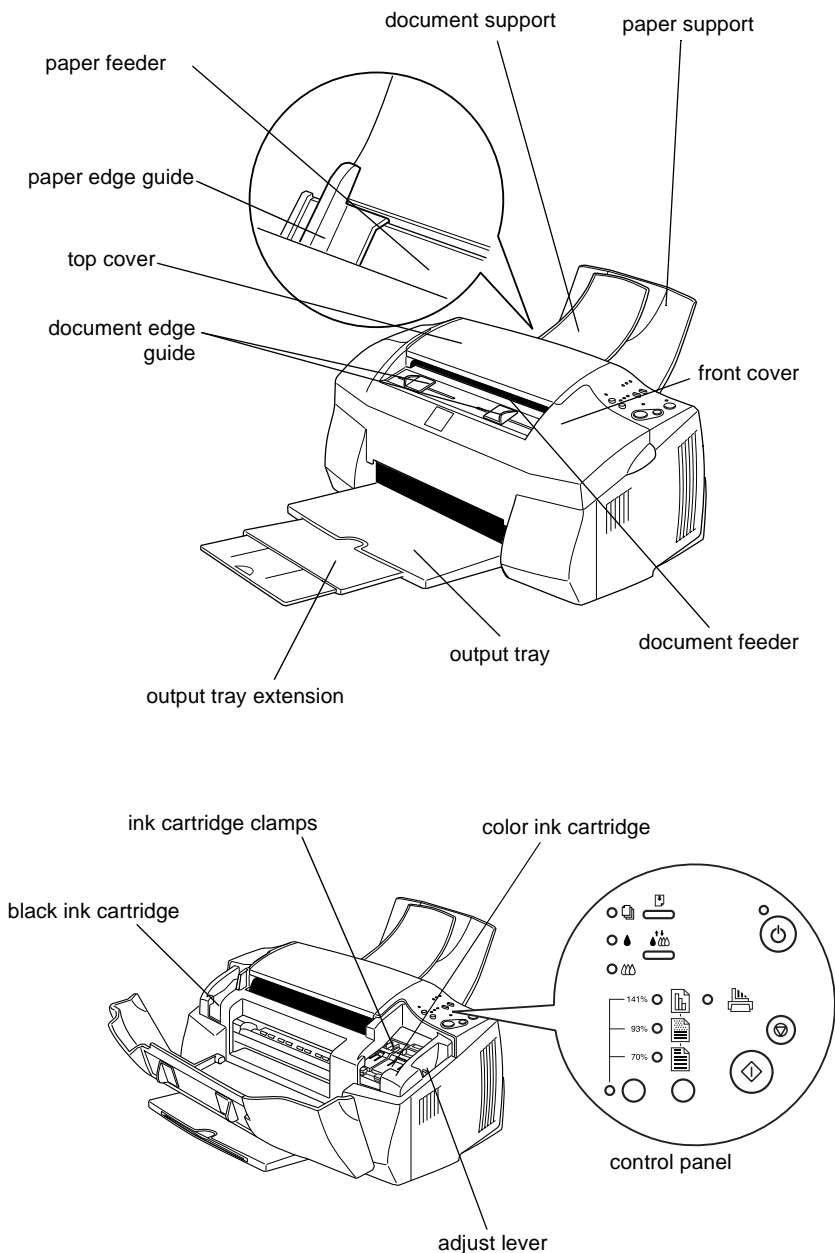
Index

Chapter 1

EPSON Stylus Scan Parts and Functions

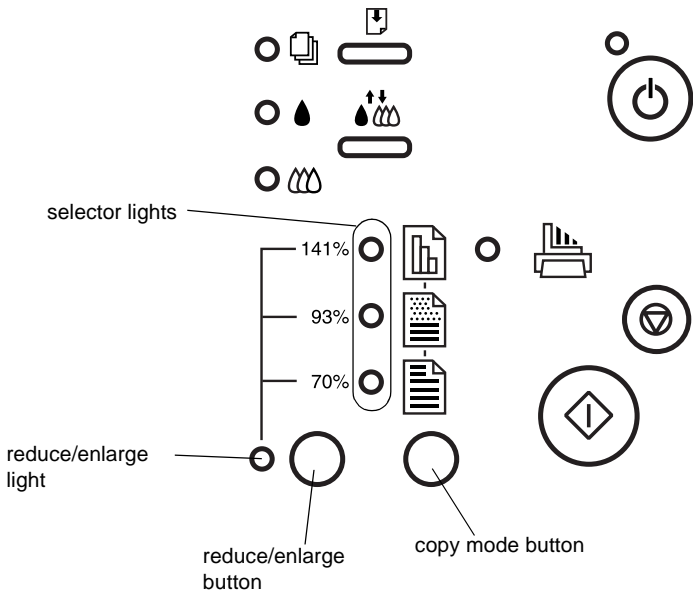
Stylus Scan Parts and Control Panel Functions.	1-2
Control Panel.	1-3

Stylus Scan Parts and Control Panel Functions








Control Panel





The control panel consists of buttons and indicator lights, and gives you access to several features. Match the icons on the control panel with those in the chart below.




Buttons

Button	Function
 power	<p>Turns the Stylus Scan on and off.</p> <p>Hold the load/eject button down when turning the power on to print a status and pattern sheet.</p>
 Load/eject	<p>Press and release quickly to feed paper into or eject paper from the paper feeder. If print head is in the ink cartridge change position, it returns to the home position.</p> <p>Hold for three seconds to move to the color or black ink cartridge to its change position.</p>
 Cleaning	<p>When the print head is at cartridge change position, press and release quickly to return the print head to the home position or to move another change position.</p> <p>Hold for three seconds and release quickly to clean the print head.</p> <p>If the ink in either cartridge is low or if a cartridge is missing, hold for three seconds and release quickly to move the print head to the cartridge replacement position.</p>
 Stop/clear	<p>Before copying, press to eject the original document from the document feeder.</p> <p>When copying is in progress, press to cancel copying and eject the original document.</p>
 Copy	<p>Press to start copying.</p>
Copy mode	<p>If the reduce/enlarge light is on, press this button once to enable copy-mode selection. The selector light for the currently selected copy mode comes on.</p> <p>Once the reduce/enlarge light is off, press this button to change the copy setting. You can choose from B/W, Grayscale, and Color.</p>
Reduce/enlarge	<p>Selects the copy magnification.</p> <p>If the reduce/enlarge light is off, press this button once to enable reduce/enlarge selection. The selector light for the currently selected magnification rate comes on.</p> <p>Once the reduce/enlarge light is on, press this button to change the magnification setting. You can choose between: 100%, 70%, 93%, and 141%.</p>

Lights

Light	Stylus Scan Status
 Power	<p>On solid when the Stylus Scan is on and ready to print, copy, or scan.</p> <p>Flashes when Stylus Scan is receiving data, printing, scanning, copying, warming up, or in cartridge-change mode.</p>
 Paper out	<p>On solid when the Stylus Scan is out of paper for printing or copying. Load paper into the paper feeder; then press the load/eject button to continue printing or copying.</p> <p>Flashes when paper is jammed in the sheet feeder. Remove all paper from the sheet feeder and reload the paper. If the light continues to flash, turn off the printer and gently pull all paper out of the paper path.</p>
 Black ink out	<p>Flashes when black ink is low. Prepare a new black ink cartridge.</p> <p>On solid when black ink cartridge is empty. Replace the black ink cartridge (S020189).</p>
 Color ink out	<p>Flashes when color ink is low. Prepare a new color ink cartridge.</p> <p>On solid when color ink cartridge is empty. Replace the color ink cartridge. (S020191).</p>
Reduce/ enlarge	<p>On if Selector lights are indicating the currently selected magnification rate.</p> <p>Off if the Selector lights are indicating the currently selected copy mode.</p>

<p>Selector lights</p>	<p>When the reduce/enlarge light is off, these lights indicate the current copy setting.</p> <p>Top on: Color</p> <p>Middle on: Grayscale</p> <p>Bottom on: Black and white</p> <p>When the reduce/enlarge light is on, these lights indicate the current reduce/enlarge setting.</p> <p>All off: 100%</p> <p>Top on: 141%</p> <p>Middle on: 93%</p> <p>Bottom on: 70%</p>
<p> Scan/Copy Error</p>	<p>On solid if paper is jammed in the document feeder, or if some other scan or copy error has occurred</p>

Chapter 2

Safety Instructions

Important Safety Instructions 2-2

A Few Precautions 2-3

 When using the Stylus Scan 2-3

 When handling the ink cartridges 2-3

 When choosing a place for the Stylus Scan 2-4

ENERGY STAR Compliance 2-5

Warnings, Cautions, and Notes..... 2-5

Important Safety Instructions

Read all of these instructions before using your EPSON Stylus Scan. Also be sure to follow all warnings and instructions marked on the Stylus Scan.

- ❑ Unplug the Stylus Scan before cleaning. Clean with a damp cloth only. Do not spill liquid on the Stylus Scan.
- ❑ Do not place the Stylus Scan on an unstable surface, or near a radiator or heat source.
- ❑ Do not block or cover the openings in the Stylus Scan's cabinet.
- ❑ Do not insert objects through the slots. Take care not to spill liquid on the Stylus Scan.
- ❑ Use only the type of power source indicated on the Stylus Scan's label.
- ❑ Connect all equipment to properly grounded power outlets. Avoid using outlets on the same circuit as air control systems, or other devices that consume large amounts of electricity and regularly switch on and off.
- ❑ Avoid electrical outlets controlled by wall switches or automatic timers.
- ❑ Keep the entire computer system away from potential sources of electromagnetic interference, such as loudspeakers and the base units of cordless telephones.
- ❑ Do not use a damaged or frayed power cord.
- ❑ If you use an extension cord with the Stylus Scan, make sure the total ampere rating of the devices plugged into the extension cord does not exceed the cord's ampere rating. Also, make sure the total ampere rating of all devices plugged into the wall outlet does not exceed the wall outlet's ampere rating.

- ❑ Do not attempt to service the EPSON Stylus Scan yourself.
- ❑ Unplug the Stylus Scan and refer servicing to qualified service personnel under the following conditions:
 - ❑ The power cord or plug is damaged; liquid has entered the Stylus Scan; the Stylus Scan has been dropped or the cabinet damaged; the Stylus Scan does not operate normally or exhibits a distinct change in performance.
 - ❑ To provide adequate short-circuit protection and over-current protection for this Stylus Scan, the building installation must be protected by a 16 Amp circuit breaker.

A Few Precautions

When using the Stylus Scan

- ❑ Do not put your hand inside the Stylus Scan or touch the ink cartridges during operation.
- ❑ Do not move the print head by hand. Doing so may damage the EPSON Stylus Scan.
- ❑ Always use the ⏻ power button to turn off the Stylus Scan. After pressing this button, the ⏻ power light flashes briefly then goes off. Do not unplug the Stylus Scan or turn off the power to the outlet until the ⏻ power light stops flashing.
- ❑ Before transporting the Stylus Scan, make sure the print head is in the home (far right) position and the ink cartridges are in place.

When handling the ink cartridges

- ❑ Keep ink cartridges out of the reach of children. Do not allow children to drink the ink or otherwise handle the cartridges.

- ❑ If ink gets on your skin, wash it off with soap and water. If ink gets into your eyes, flush eyes immediately with water.
- ❑ Do not shake the ink cartridges. Cartridges may leak if shaken.
- ❑ Install the ink cartridge immediately after you remove it from its package. Leaving the cartridge unpacked for a long time before use may result in reduced print quality.
- ❑ Once you install an ink cartridge, do not open the clamp or remove the cartridge except to replace it with a new one. Otherwise the cartridge may become unusable.
- ❑ Do not use an ink cartridge beyond the date printed on the cartridge carton. For best results, use up the ink cartridges within six months of installing them.
- ❑ Do not dismantle the ink cartridges or try to refill them. Doing so may damage the print head.

When choosing a place for the Stylus Scan

- ❑ Place the EPSON Stylus Scan on a flat, stable surface that extends beyond the Stylus Scan base in all directions. The Stylus Scan will not operate properly if it is tilted or at an angle.
- ❑ Avoid places subject to rapid changes in temperature and humidity. Also, keep the Stylus Scan away from direct sunlight, strong light, and heat sources.
- ❑ Avoid places subject to shocks and vibrations.
- ❑ Leave enough room around the Stylus Scan to allow for sufficient ventilation.
- ❑ Place the Stylus Scan near a wall outlet where the plug can be easily unplugged.

ENERGY STAR Compliance



As an ENERGY STAR Partner, EPSON has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

The International ENERGY STAR Office Equipment Program is a voluntary partnership with the computer and office equipment industry to promote the introduction of energy-efficient personal computers, monitors, printers, fax machines, and copiers in an effort to reduce air pollution caused by power generation.

Warnings, Cautions, and Notes



Warnings

must be followed carefully to avoid bodily injury.



Cautions

must be observed to avoid damage to your equipment.

Notes

contain important information and useful tips on the operation of your Stylus Scan.

Chapter 3

Loading the Paper

Loading the Paper	3-2
Loading Plain Paper	3-2
Loading Special Paper and Other Media	3-3
About special media cleaning sheets	3-7
Loading Envelopes	3-7
Using EPSON Photo Paper	3-8
Loading	3-9
Removing the perforated margins	3-10
Storing EPSON Photo Paper	3-12

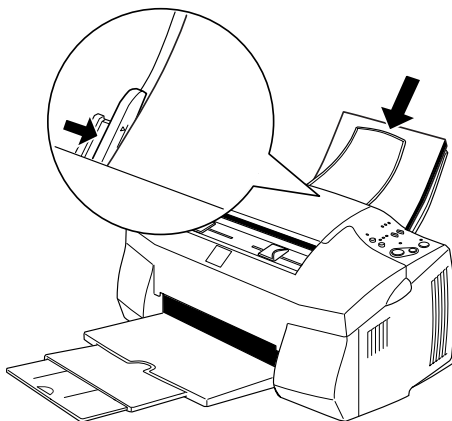
Loading the Paper

This chapter explains how to load paper and other media into the paper feeder for printing and copying, and describes proper handling of these media. For information on feeding documents into the document feeder, see chapters 8 and 9.

Loading Plain Paper

Follow these steps to load plain paper for printing or copying.

1. Lower the output tray and slide out the extension. Next, slide the left edge guide to adjust the width of the loading area so that it is slightly wider than the width of your paper.
2. Fan a stack of paper; then tap it on a flat surface to even the edges.
3. Load the stack of paper with the printable side up and the right edge of the paper resting against the right side of the paper feeder. Then slide the left edge guide against the edge of the paper.



Note:

- ❑ *Always load plain paper into the paper feeder with the short edge down.*
- ❑ *Make sure the paper stack fits under the arrow mark inside the edge guide.*
- ❑ *Remove any documents from the document feeder before printing.*

Loading Special Paper and Other Media

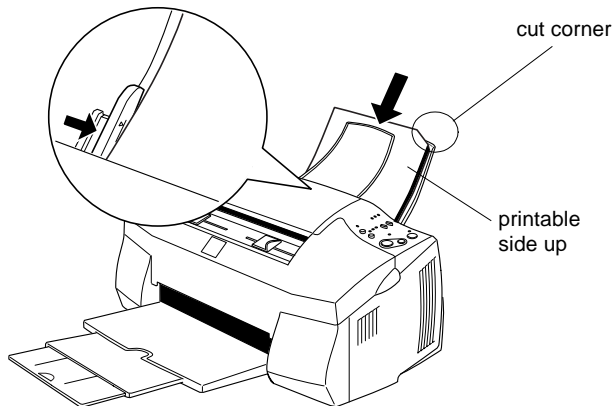
You can achieve good results with most plain bond paper. However, coated paper and glossy film result in higher quality printouts because these media absorb smaller amounts of ink.

You can print on a wide variety of special media, including ink jet paper, photo quality glossy film, photo paper, transparencies, envelopes, index cards, and adhesive sheets.

EPSON distributes special media that are formulated for the ink used in EPSON ink jet devices. It is recommended that you use these media to ensure high-quality results. See “EPSON special media” on page 13-3 for a complete list of these products.

When loading special media distributed by EPSON, read the instructions included with the media and keep the following points in mind.

- ❑ Make sure the printable side of the paper is facing up when loading media into the paper feeder. See the instructions included with the media to determine which side is the printable surface. Some media come with corner cuts that help identify the correct loading direction, as shown below.



Note:

*If you extend the printable area with the **Maximum** setting in the printer driver, the cut corner on special paper may mar your printout.*

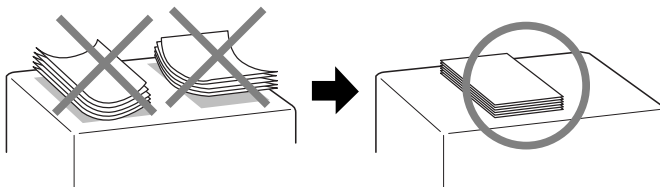
- ❑ Make sure the paper stack fits under the arrow mark located on the inside surface of the left edge guide.
- ❑ Remove any documents from the document feeder before printing.

❑ The loading capacity for envelopes and EPSON special media is explained below.

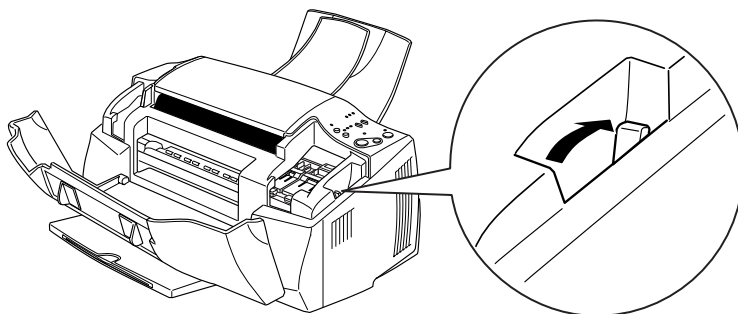
Envelopes	Up to 10 envelopes.
	Note: If the total thickness of the stack of envelopes exceeds 10 mm, press each envelope flat before loading.
EPSON Premium Ink Jet Plain papier, 360 dpi Ink Jet Paper and Photo Quality Ink Jet Paper	Up to the arrow mark on the left edge guide.
Photo Quality Ink Jet Card, Ink Jet Note Card, and Ink Jet Greeting Card	Up to 30 index cards. Always place the included support sheet under the cards.
Ink Jet Transparencies	Up to 30 transparencies. Always put a sheet of plain paper under the stack of transparencies.
Photo Quality Self Adhesive Sheet	One sheet at a time.
Photo Paper	Up to 20 sheets. 200 × 300 mm Photo Paper can only be loaded 1 sheet at a time. For 4 × 6 inch Photo Paper, always put a support sheet* under the stack of Photo Paper.
Photo Stickers 16 and Photo Stickers 4	One sheet at a time. Always put the included Support Sheets A and B under the stack of Photo Stickers.
Panoramic Photo Paper and Iron-On Cool Peel Transfer Paper	One sheet at a time.
Matte Paper-Heavyweight	Up to 20 sheets. Always put a support sheet* under the stack of Matte Paper-Heavyweight.

* Be careful not to print on support sheets loaded under special media.

- ❑ If the paper is curled, make sure to flatten it or curl it slightly toward the opposite side before loading. Printing on curled paper may smear your printout, especially when printing with **Maximum** selected as the Printable Area setting.



- ❑ If printing is smeared, change the adjust lever to the “+” position. To change the setting, open the front cover and set the lever as shown in the illustration.



Note:

- ❑ *Be sure to return the adjust lever to the “0” position before printing or copying onto media of normal thickness. Leaving the lever in the “+” position may cause gaps in the printed image.*
- ❑ *When the adjust lever is in the “+” position, make sure the High Speed setting in the printer driver’s Advanced dialog box is cleared. To turn this option off, you may also need to change the Print Quality setting.*

About special media cleaning sheets

Do not use the cleaning sheets packaged with EPSON special media with the Stylus Scan. These sheets are not needed with the Stylus Scan and may cause jams.

Loading Envelopes

When printing on envelopes, please note the following:

- ☐ You can load up to ten envelopes at a time into the paper feeder.

Note:

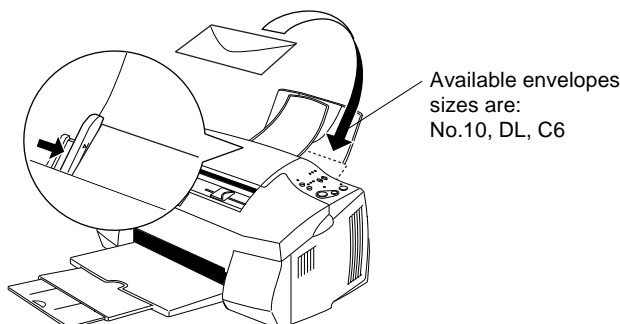
The folding quality and thickness of envelopes vary widely. If the total thickness of the stack of envelopes exceeds ten millimeters, press the stack flat before loading.

- ☐ Set the adjust lever to the “+” position. To do this, open the front cover and reposition the lever.

Note:

- ☐ *Be sure to return the adjust lever to the “0” position before printing or copying onto media of normal thickness. Leaving the lever in the “+” position may cause gaps in the printed image.*
- ☐ *When the adjust lever is in the “+” position, make sure the High Speed setting in the printer driver’s Advanced dialog box is cleared. To turn this option off, you may also need to change the Print Quality setting.*

- ❑ Load envelopes flap-edge first with the flap side down, as shown below.



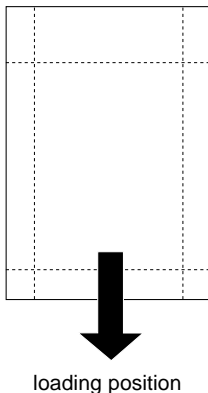
- ❑ Do not use envelopes that are curled or folded. Make sure to flatten the envelope flaps before loading. Also avoid using envelopes that are too thin; they may curl during printing.
- ❑ Select **Plain Paper** as the Media Type setting on the printer driver.

Using EPSON Photo Paper

EPSON Photo Paper (S041134, S041254) is perforated around the margins so you can trim your printed images to look like 4 × 6 inch (102 × 152 mm) or 200 × 300 mm photographs.

Loading

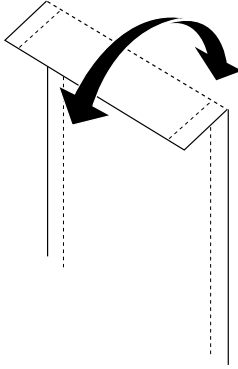
- ❑ Load the paper printable side up with the perforated margins positioned as shown below.



- ❑ Use flat, undamaged paper. If the paper or the support sheet is curled, flatten it before loading to avoid paper feeding problems.
- ❑ Always place the included support sheet under the stack of Photo Paper, but do not print on it.
- ❑ You can load up to 20 sheets of 4 × 6 inch Photo Paper or 1 sheet of 200 × 300 mm Photo Paper into the paper feeder.
- ❑ Cut or tear the paper at the perforation only after printing. Do not cut, tear, or fold the paper before printing.
- ❑ Select **Photo Paper** as the Media Type setting, and **Photo Paper 4 × 6 in** or **Photo Paper 200 × 300 mm** as the Paper Size setting in your printer driver.

Removing the perforated margins

- ❑ To remove the perforated margins, fold the paper back and forth a few times along the perforations, then carefully tear the margins off.

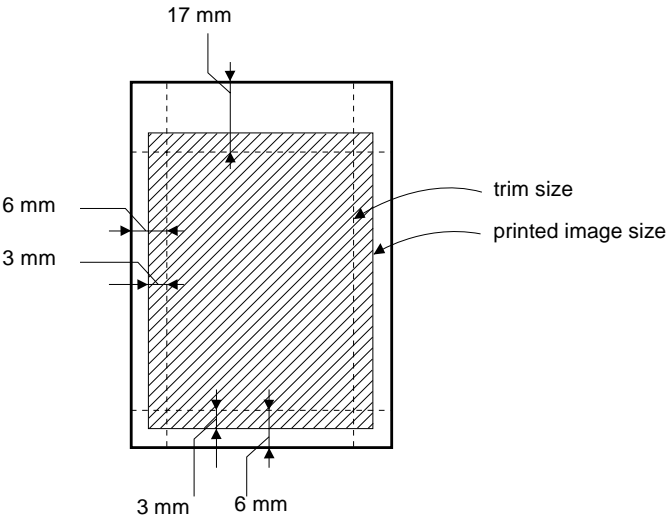


- ❑ You can also remove the margins by cutting along the perforations.

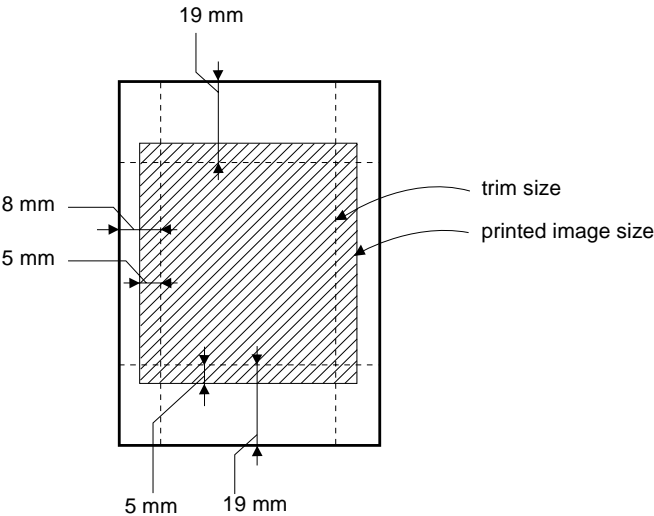
Note:

Keep in mind that the edges of your image might be cut off when you remove the perforated margins. See the illustration below.

4 x 6 inch



200 x 300 mm



Storing EPSON Photo Paper

- ❑ Return unused paper to the original package as soon as you finish printing, and avoid storing it in places exposed to high temperature, humidity, or direct sunlight.
- ❑ EPSON recommends storing your printouts in a resealable plastic bag and keeping them away from high temperatures, high humidity, and direct sunlight.

Chapter 4

Using the Printer Software for Windows

Printer Software Introduction	4-2
Getting more information	4-2
Accessing the printer software	4-2
Making Changes to Printer Driver Settings	4-4
Making the Media Type setting	4-5
Using the Automatic setting	4-7
Using the Photo Enhance setting	4-8
Using the Custom settings	4-9
Using the Advanced settings	4-10
Previewing your print out	4-12
Modifying the printout style	4-13
Using the Printer Utilities	4-21
Status Monitor 3	4-22
Nozzle Check	4-22
Head Cleaning	4-22
Print Head Alignment	4-22
Printer and Option Information	4-23
Speed & Progress	4-24
Getting Information Through Online Help	4-26
Accessing help from your application	4-26
Accessing help from the Start menu	4-26
Increasing the Print Speed	4-27
Making general speed adjustments	4-27
Using the High Speed Copies feature	4-29

Printer Software Introduction

The printer driver software controls the Stylus Scan's print functions. This software lets you choose from a wide variety of settings to get the best results for your printouts. It also includes utilities that help you to check your Stylus Scan and to perform maintenance tasks.

Getting more information

For information on using the printer driver, see “Making Changes to Printer Driver Settings” on page 4-4.

For information on using the printer utilities, see “Using the Printer Utilities” on page 4-21.

Note:

The specific features available in the printer software vary depending on the version of Windows you are using.

Online help provides more information about the printer software. See “Getting Information Through Online Help” on page 4-26 for instructions on accessing help.

Accessing the printer software

You can access the printer software from most Windows applications and from the **Start** menu.

When you access the printer software from a Windows application, the settings you make apply only to the application you are using.

When you access the printer software from the **Start** menu, the settings you make apply to all of your Windows applications.

From Windows applications

Open the **File** menu and choose **Print** or **Page Setup**. Then click **Printer, Setup, Options**, or **Properties** to open the printer driver window. (Depending on your application, you may need to click a combination of these buttons.)

1. Click **Start**, point to **Settings**, then click **Printers**.
2. Select **EPSON Stylus Scan 2000**, then select **Properties** from the **File** menu. The printer software window appears.

Making Changes to Printer Driver Settings

The printer driver provides the following setting menus.

Main	Media Type, Ink, Mode
Paper	Paper size, Copies, Orientation, Printable Area
Layout	Reduce/Enlarge, Multi-Page, Watermark

The settings on the **Main** menu are arranged to give you three levels of control over the printer driver, as explained below.

Automatic	The quickest and easiest way to start printing. See “Using the Automatic setting” on page 4-7.
PhotoEnhance	Lets you apply a variety of image-correction settings specially designed for photos. See “Using the Photo Enhance setting” on page 4-8.
Custom	Choose from a list of ready-made settings suited to the kind of document you want to print. You can also add your own settings to this list. See “Using the Custom settings” on page 4-9.
Advanced	Allows you to make detailed settings to fit your individual needs. You can also add your settings to the Custom settings list.

In addition to making groups of settings that affect overall print quality, you can also modify individual aspects of the print style and layout using the **Paper** and **Layout** menus. See “Modifying the printout style” on page 4-13.

Making the Media Type setting

The Media Type setting determines what other settings are available, so you should always make this setting first.

On the **Main** menu, select the Media Type setting that matches the paper you loaded into the supply bin. Find your paper in the list below, then select a corresponding Media Type setting (shown in bold). For some kinds of paper, you have several Media Type settings to choose from.

Plain Paper

Plain paper

Envelopes

EPSON Premium Ink Jet Plain Paper (A4)	S041214
--	---------

360 dpi Ink Jet Paper

EPSON 360 dpi Ink Jet Paper (A4)	S041059
----------------------------------	---------

EPSON Iron-On Cool Peel Transfer Paper (A4)	S041154
---	---------

Photo Quality Ink Jet Paper

EPSON Photo Quality Ink Jet Paper (A4)	S041061
--	---------

EPSON Photo Quality Ink Jet Card (A6)	S041054
---------------------------------------	---------

EPSON Photo Quality Ink Jet Card (5 × 8")	S041121
---	---------

EPSON Photo Quality Ink Jet Card (8 × 10")	S041122
--	---------

EPSON Photo Quality Self Adhesive Sheet (A4)	S041106
--	---------

EPSON Ink Jet Note Cards A6 (with envelopes)	S041147
--	---------

EPSON Ink Jet Greeting Cards 5 × 8" (with envelopes)	S041148
--	---------

EPSON Ink Jet Greeting Cards 8 × 10" (with envelopes)	S041149
---	---------

Photo Paper

EPSON Photo Paper (A4)	S041140
EPSON Photo Paper (4 × 6")	S041134
EPSON Photo Paper (100 × 150 mm)	S041255
EPSON Photo Paper (200 × 300 mm)	S041254
EPSON Panoramic Photo Paper (210 × 594 mm)	S041145
EPSON Photo Paper Cards (A4)	S041177

Photo Quality Glossy Film

EPSON Photo Quality Glossy Film (A4)	S041071
EPSON Photo Quality Glossy Film (A6)	S041107
EPSON Photo Stickers 16 (A6)	S041144
EPSON Photo Stickers 4 (A6)	S041176

Ink Jet Transparencies

EPSON Ink Jet Transparencies (A4)	S041063
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Matte Paper-Heavyweight

EPSON Matte Paper-Heavyweight (A4)	S041256
------------------------------------	---------

Using the Automatic setting

When **Automatic** is selected on the **Main** menu, the printer makes settings automatically based on the current Media Type and Ink settings. To make the Ink setting, click **Color** to print in color, or **Black** to print in black-and-white or grayscale. To make the Media Type setting, see “Making the Media Type setting” on page 4-5.



Note:

- ❑ Depending on the media you choose in the **Media Type** list (while **Automatic** is selected), a slide bar appears in the **Mode** box that lets you choose **Quality**, **Speed**, or an intermediate setting. Select **Quality** when print quality is more important than speed.
- ❑ Most Windows applications feature paper size and page layout settings that override similar settings on the printer driver. However, if your application does not have these settings, verify the settings on the printer driver's **Paper** menu.

Using the Photo Enhance setting

Selecting **Photo Enhance** allows you to make a variety of image-correction settings to your photo images before printing. Photo Enhance does not affect your original data.

If you are printing photos taken with a digital camera, you can also select the **Digital Camera Correction** check box to give your printed images the smooth, natural appearance of photographs taken with a film camera.

Note:

- ☐ *This setting is available only when you are printing in color.*
- ☐ *Printing with **Photo Enhance** selected may increase print time depending on your computer system and the amount of data contained in your image.*

When using Photo Enhance, you can make the following settings.

Standard	Standard image correction for most photos. Try this setting first.
People	Best for photos of people.
Nature	Best for outdoor scenery such as mountains, skies, and oceans.
Soft Focus	Makes your photos look as if they were taken with a soft-focus lens.
Sepia	Applies a sepia tone to your photos.

Using the Custom settings

The Custom settings let you make a wide range of changes with a single click of the mouse. In the **Custom settings** list, you'll find ready-made settings provided by EPSON designed to match a particular kind of printout, such as graphs and charts used in a presentation, or images taken by a digital camera.

You can also create your own settings and add them to this list. See "Using the Advanced settings" on page 4-10 for details.

The **Custom settings** list includes the following ready-made settings.

Text/Graph	Good for printing presentation documents such as graphs and charts.
Economy	Good for printing drafts of text.
ICM	ICM means Image Color Matching. This feature automatically adjusts printout colors to match colors on your screen.
sRGB	Best for color matching with other sRGB devices.

Follow the steps below to select a Custom setting.

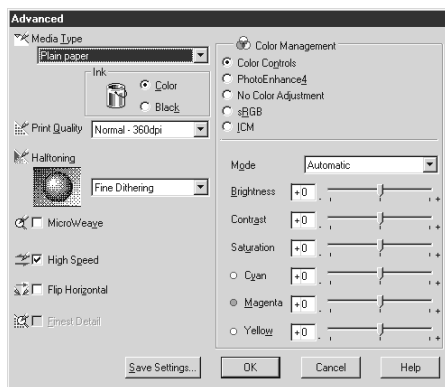
1. Click the **Custom** button on the **Main** menu.
2. From the **Custom settings** list, select the most appropriate setting for the type of document or image you will print.
3. When you choose a setting, other settings such as **Print Quality**, **Halftoning**, and **Color Adjustment** are set automatically. Changes are shown in the Current Settings display at the bottom of the **Main** menu.
4. Before printing, be sure to verify the Media Type and Ink settings, as they may be affected by the Custom setting you select. See "Making the Media Type setting" on page 4-5.

Using the Advanced settings

The Advanced settings give you complete control over your printing environment. Use these settings to experiment with new printing ideas, or to fine-tune a range of print settings to meet your individual needs. Once you are satisfied with your new settings, you can give them a name and add them to the **Custom settings** list.

Follow the instructions below to make and save Advanced settings.

1. Click the **Custom** button on the **Main** menu and then click **Advanced**. The following dialog box appears.

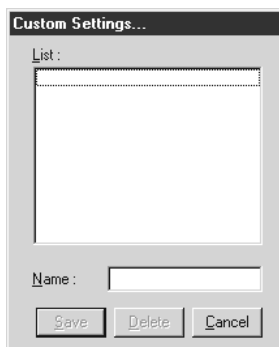


2. Select the Media Type you loaded in the Stylus Scan. For details, see “Making the Media Type setting” on page 4-5.
3. Choose **Color** or **Black** in the Ink option.
4. Select the Print Quality setting.
5. Make other settings as needed. For details, see online help.

Note:

- ☐ *The Photo Enhance 4 setting under the Color Management option only affects images, not text or graphs. If Monochrome is selected from the **Tone** list, for example, only the images in a document will be printed in monochrome. Any colored text and graphs in the same document will be printed in color.*
 - ☐ *Some settings may be disabled depending on the Media Type, Ink, and Print Quality settings you make.*
6. Click **OK** to apply your settings and return to the **Main** menu. If you want to return to the **Main** menu without applying your settings, click **Cancel**.

To save your Advanced settings, click **Save Settings** in the **Advanced** dialog box. The **Custom Settings** dialog box appears.



Type a unique name for your settings in the **Name** box, and click the **Save** button. Your settings are added to the **Custom settings** list.

Note:

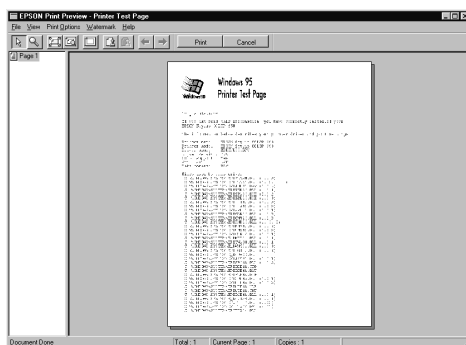
- ☐ *You cannot use the names of settings provided by EPSON for your custom settings.*
- ☐ *To delete a setting, select the setting in the **Custom Settings** dialog box and click **Delete**.*

- ☐ You cannot delete the ready-made settings from the **Custom Settings** list.

When you select your saved settings in the **Custom settings** list, be aware that making new settings (for example Media Type and Ink settings) may change your custom settings. This may cause unexpected results in your printout. If this happens, reselect your saved settings and try printing again.

Previewing your print out

To see a preview of your document before printing it, select the **Print Preview** check box on the **Main** menu. When you select the Print option in your application, the **Print Preview** window appears.



You can manipulate the previewed document in the following ways.

- ☐ Select and preview individual pages.
- ☐ Reduce or enlarge the size of the preview.
- ☐ Select and print any or all pages.

- ❑ **Apply watermarks.** The watermark you select will appear in the previewed image. For detailed information on customizing watermarks, see “Printing a watermark on your document” on page 4-19.

After you have previewed the document, click **Print** to print, or click **Cancel** to cancel printing.

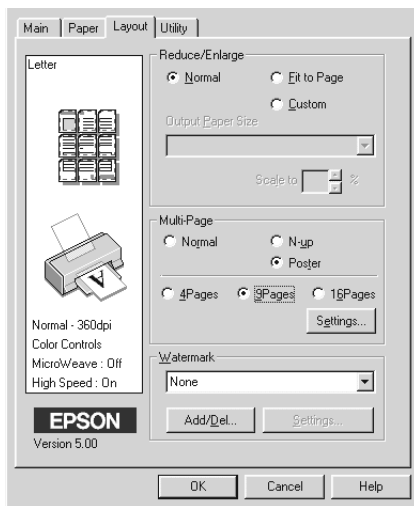
Modifying the printout style

You can modify your printout style using a variety of printer driver settings located on the **Paper** and **Layout** menus.

On the **Paper** menu, you can make settings for the paper size, number of copies, the orientation of your printout, and the printable area. On the **Layout** menu you can automatically match the document size to the paper size, print two or four pages on a single sheet, print poster-size images by enlarging one page to cover several sheets, or place watermarks on documents.

Using the Paper menu settings

Use the **Paper** menu to change the paper size, set the number of copies and other copy parameters, specify the paper orientation, and adjust the printable area.



You can make the following settings.

Paper Size	Select the paper size you want to use. You can also add a custom paper size.
Copies	You can determine the order in which you print multiple copies of your document: Collated (printing a set at a time), or in Reverse order.
Orientation	To change the orientation of your printout, select Portrait (tall) or Landscape (wide). If you need to print close to the bottom of the page, select the Rotate by 180° check box.
Printable Area	<p>Use the options in the Printable Area box to adjust the total area available for printing. If you want to center the printout, click Center. If you need to increase the printable area, click Maximum.</p> <p>Note: When Maximum is selected, the print quality may decline at the edges of the printout. Before printing large jobs using this setting, print a single sheet to confirm quality. When Maximum is selected, make sure the paper loaded in the paper feeder is not curled.</p>

Fitting your document to the paper size

To fit the size of your document to the size of the paper you will print on, use the Reduce/Enlarge options on the **Layout** menu.

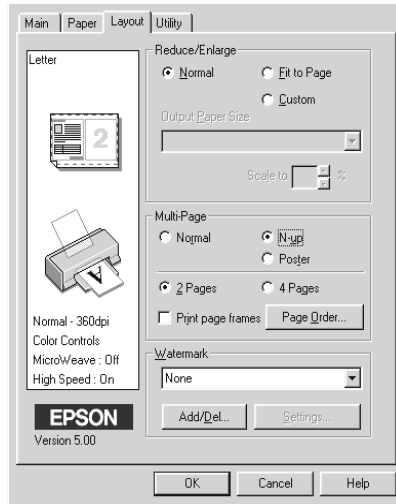


You can select the following.

Normal	Prints your document at its normal size.
Fit to Page	Proportionally enlarges or reduces the size of your document to make it fit the paper size you select in the Paper Size list on the Paper menu.
Custom	Allows you to manually define the percentage you want to enlarge or reduce an image. Click the arrows next to the Proportion box to select from 10% to 400%.

Printing two or four pages on one sheet

To print two or four pages of your document on one sheet of paper, use the Multi-Page option on the **Layout** menu.

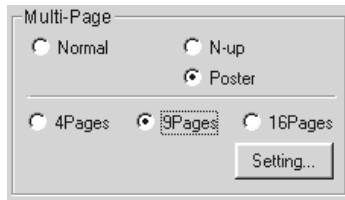


Select **N-up** as the Multi-Page option, then make the following settings.

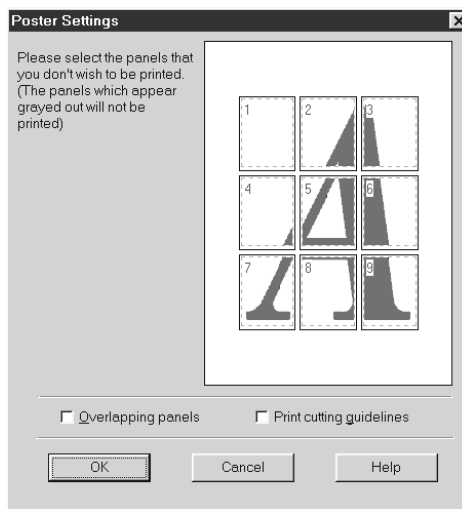
2 Pages 4 Pages	Prints two or four pages of your document on a single piece of paper.
Page Order	Allows you to specify the order of the pages you want to print.
Print page frames	Allows you to print a frame around each page on the sheet of paper.

Printing posters

You can use the Poster setting in the Multi-Page option to print a poster-size image. A single document page can be enlarged to cover four, nine, or 16 printed pages.



To adjust the way your poster prints, click the **Settings** button. The **Poster Setting** dialog box appears.

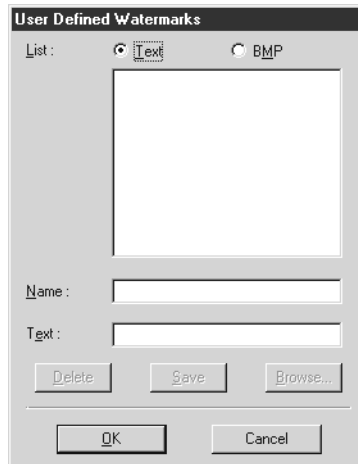


Printing a watermark on your document

To print a watermark on your document, use the Watermark option on the **Layout** menu, and select from a list of predefined watermarks.

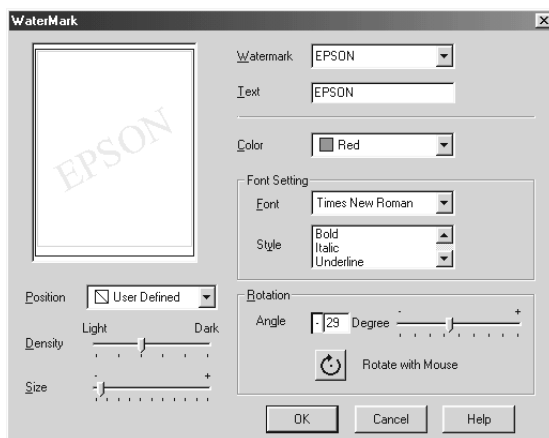
You can also add your own text-based or image-based watermarks to the **Watermark Name** list. Follow these steps.

1. Click the **Add/Del** button. The following dialog box appears.



2. To use an image file as a watermark, select **BMP**. Click the **Browse** button to select the bitmap file you want to use, then click **OK**. To create a text-based watermark, select **Text**, then type your text in the **Text** box.
3. Name your watermark in the **Watermark** box, then click **Save**. Click **OK** to return to the **Layout** menu.

4. To make settings for your watermark, click the **Settings** button. The following dialog box appears.

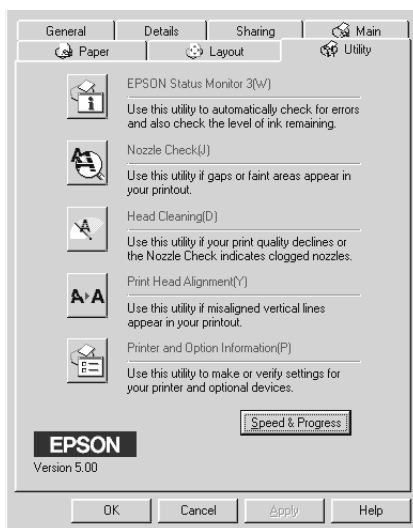


5. Select the name of watermark you want to make settings for from the **Watermark** list, and make color, position, density, and size settings. The settings you make appear on the left side of the dialog box. After you make settings, click **OK**.

Using the Printer Utilities

EPSON printer utilities allow you to monitor printing status and to perform various printer maintenance tasks from your screen.

To use the utilities, click the **Utility** tab in the printer software window, then click the button for the utility you want to use. For information on how to access the printer software, see “Accessing the printer software” on page 4-2.



Note:

- ❑ *The letter in parentheses after the utility name indicates the shortcut key for that utility. Press **Alt** and the letter on the keyboard to open that utility.*
- ❑ *Do not use the Nozzle Check, Head Cleaning, or Print Head Alignment utility if your EPSON Stylus Scan is connected to your computer through a network.*
- ❑ *Do not use the Nozzle Check, Head Cleaning, or Print Head Alignment utility while printing is in progress; doing so may mar the printout.*

Status Monitor 3

This utility provides you with printer status information, such as the amount of ink remaining, and checks for printer errors.

The utility is available only if these two conditions are met.

- ☐ The EPSON Stylus Scan is connected directly to the host computer's parallel port or USB port.
- ☐ Your system is configured to support bidirectional communication.

Nozzle Check

This utility checks the print head nozzles for clogging.

Check the nozzles if you notice print or copy quality has declined and also after cleaning to confirm that the print head nozzles have been cleaned. If the nozzle check indicates the print head needs cleaning, you can access the Head Cleaning utility directly from the Nozzle Check utility. See "Checking the Print Head Nozzles" on page 11-2.

Head Cleaning

This utility cleans the print head.

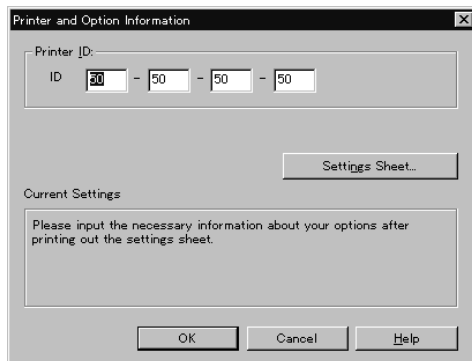
You may need to clean the head when you notice print quality has declined. Use the Nozzle Check utility first to confirm that the head needs to be cleaned. You can access the Nozzle Check utility directly from the Head Cleaning utility. See "Cleaning the Print Head" on page 11-5.

Print Head Alignment

This utility aligns the print head. Use if you notice a misalignment of vertical lines in your printouts.

Printer and Option Information

This utility allows the printer driver to confirm the EPSON Stylus Scan's printer configuration. It also provides information on certain Stylus Scan characteristics, such as its Printer ID.



Depending on the configuration of your system, the information displayed in the **Printer and Option Information** dialog box may be updated automatically, or may need to be entered manually.

If a message appears under **Current Settings** prompting you to enter settings, or if you change the EPSON Stylus Scan configuration, follow these steps to make the necessary settings.

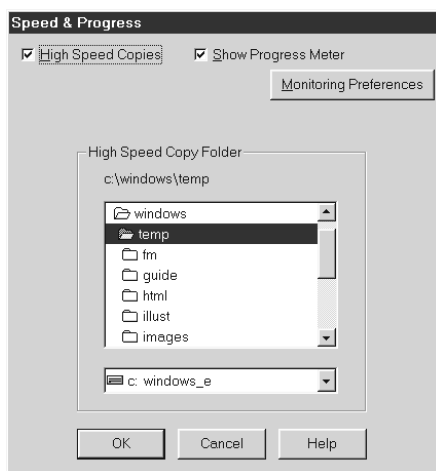
1. Click the **Settings Sheet** button in the **Printer and Option Information** dialog box to print out information about the EPSON Stylus Scan and its options. This requires A4 or Letter size paper. You will see a printout similar to the one below.

```
Printer ID
50- 50- 50- 50
```

2. Make sure the settings in the utility match the information on the printed Settings Sheet. If they do not match, correct the settings on the screen to match the information on the settings sheet.
3. Click **OK** to save your settings.

Speed & Progress

You can make settings related to print speed and progress in this dialog box.



High Speed Copies

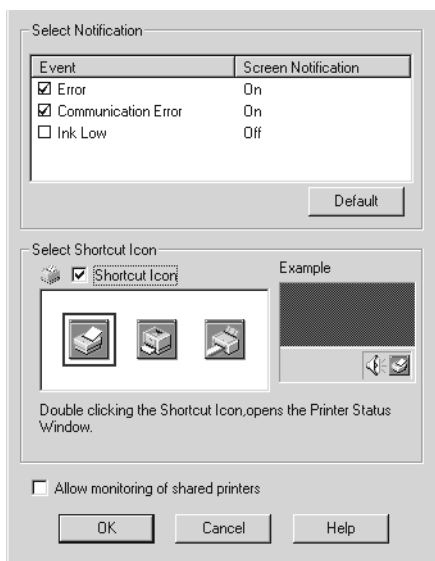
Select the **High Speed Copies** dialog box to print copies of your document faster.

Show Progress Meter

Select the **Show Progress Meter** check box to monitor the progress of your print job.

Monitoring Preferences

Click this button to open the following dialog box where you can make settings for EPSON Status Monitor 3.



You can make the following settings:

Select Notification area	In this area, you can designate whether to have general error messages, communication error messages, or ink status messages displayed during printing, scanning, or copying. Click the check box next to the message type to activate or deactivate the message.
Shortcut Icon	When this check box is selected, a shortcut icon is displayed in your computer's task tray during printing. You can choose the icon that is displayed by clicking one of the three icons under the check box. During printing, double-click the icon in your task tray to check the Stylus Scan's status.
Allow monitoring of shared printer	When this check box is selected, a shared printer can be monitored by other computers.

Note:

Click the **Default** button to restore the settings in the **Select Notification** area to their default values.

Getting Information Through Online Help

The EPSON Stylus Scan offers extensive online help. You can access help either from the application you are working in, or directly from the operating system.

Accessing help from your application

Each printer-driver menu includes a **Help** button that provides information about all of the settings offered by that menu. Simply go the appropriate menu (**Main**, **Paper**, **Layout**, or **Utility**), then click **Help**.

To get help about a single item on any of the printer driver menus, right-click the item, then click **What's This?**

Accessing help from the Start menu

Click the **Start** button, point to **Programs**, and then to **Epson Stylus Scan** (on Windows 95 or 98). Then click **EPSON Stylus Scan 2000 Printer Help**. The **Help Contents** window appears.

Increasing the Print Speed

Making general speed adjustments

Just as printing at a high resolution requires more processing time, printing in color takes longer than printing in black-and-white because the volume of data in a color document is much greater. Accordingly, it is important to be selective in your use of color if you require a faster print speed.

Even if your document requires the highest resolution and extensive use of color, for example when printing a camera-ready composite that includes color photographs, it may still be possible to optimize the print speed by adjusting other printing conditions. Keep in mind that making changes to increase the print speed may also lower print quality. See the tables in this section to make necessary adjustments.

The following table shows the factors that inversely affect print speed and print quality (increasing one decreases the other).

	Lower Print Quality Faster Print Speed	Higher Print Quality Slower Print Speed
Printer driver settings		
Print Quality	Economy, Normal	Photo
High Speed	On	Off
Halftoning	No Halftoning	Error Diffusion
Finest Detail	Off	On
Data characteristics		
Image size	Small	Large
Image resolution	Low	High

The table below shows the factors related to print speed only.

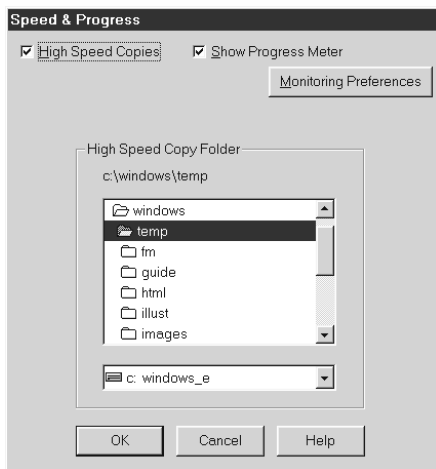
	Faster Print Speed	Slower Print Speed
Printer driver settings		
Ink	Black	Color
Collate*	Off	On
Reverse Order*	Off	On
Flip Horizontal*	Off	On
Data characteristics		
Variety of colors	Grayscale**	Full color
Hardware resources		
System speed	Fast	Slow
HDD free space	Large	Small
Memory free space	Large	Small
Software status		
Running applications	One	Many
Virtual memory	Not in use	In use

* Varies depending on the printer driver and application software you are using.

** Grayscale means using only black ink to print varying shades of gray, from pure black to pure white.

Using the High Speed Copies feature

To access this feature, click the **Speed & Progress** button on your printer software's **Utility** menu. The following dialog box appears.



Select the **High Speed Copies** to make copies faster. This speeds up printing by using your hard disk space as a cache when printing multiple copies of your document.

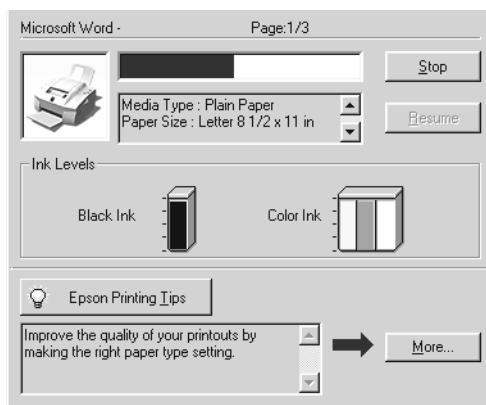
Chapter 5

Checking Printer Status and Managing Print Jobs for Windows

Using the Progress Meter	5-2
Using the EPSON Spool Manager	5-4
Using EPSON Status Monitor 3	5-4
Accessing EPSON Status Monitor 3	5-5

Using the Progress Meter

When you send a print job to the printer, the Progress Meter shown below appears on your computer screen.



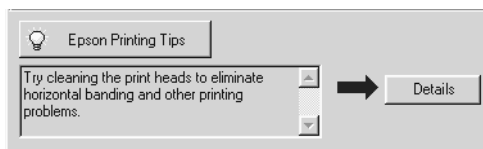
The Progress Meter indicates the progress of the current print job and provides printer status information when bidirectional communication between the printer and computer is established. This meter also displays helpful tips for better printing, as explained below.

Note:

*The Progress Meter does not appear when the **Show Progress** check box is cleared in the **Speed & Progress** dialog box. See “Speed & Progress” on page 4-24 for more information.*

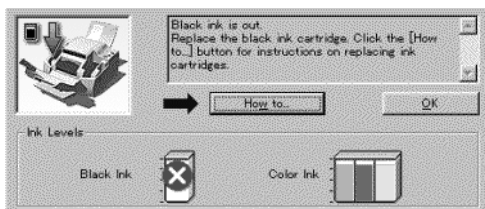
EPSON Printing Tips

Tips for getting the most out of your EPSON printer driver appear at the bottom of the Progress Meter window. A new tip appears every 30 seconds. For more details on a displayed tip, click the **Details** button.



Error messages

If a problem occurs while printing, an error message appears in the Progress Meter window. When ink low or out, click the **How To** button and the Status Monitor leads you through the cartridge replacement procedure.

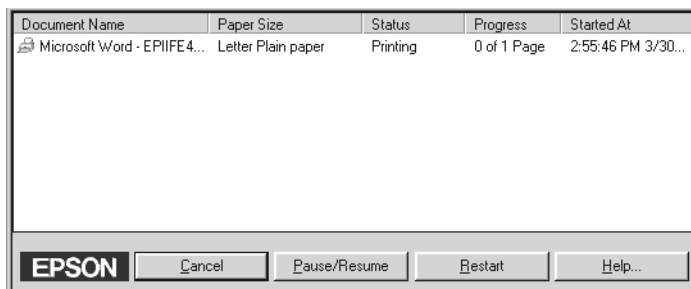


Using the EPSON Spool Manager

The EPSON Spool Manager is similar to Windows Print Manager. If it receives two or more print jobs at one time, it puts them in a line (with printers on a network this is often called a print queue) in the order received. When a print job reaches the top of the line, the EPSON Spool Manager sends the job to the Stylus Scan.

For Windows 95 and 98

After you send a print job, the **EPSON Stylus Scan 2000** button appears on the taskbar. Click this button to view print status information about print jobs sent to that printer. You can also cancel, pause and resume, or restart selected print jobs from the Spool Manager.



Using EPSON Status Monitor 3

The Status Monitor utility displays detailed information on the printer status.

Note:

*Before using the Status Monitor, be sure to read its README file. To open this file, click **Start**, point to **Programs**, click **EPSON Stylus Scan**, and then click **EPSON Stylus Scan 2000 Readme**.*

Accessing EPSON Status Monitor 3

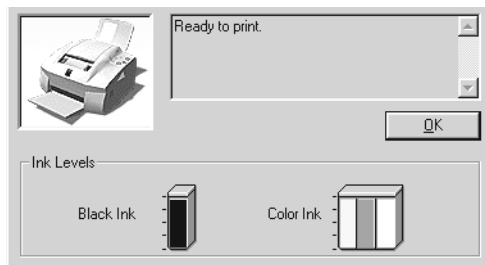
There are two ways to access EPSON Status Monitor 3.

- ☐ Double-click the printer-shaped shortcut icon on the taskbar at the bottom of your computer screen. To add a shortcut icon to the taskbar, see “Monitoring Preferences” on page 4-25.
- ☐ Open the printer software window, click the **Utility** tab, then click the **EPSON Status Monitor 3** button.

Printer Status window

To get more detailed information, you can access the Printer Status window from the printer software window. Click the **Utility** tab, then click the **EPSON Status Monitor 3** button.

If you access the Printer Status window as described above, the following window appears.



You can view the following information in the Printer Status window.

- ☐ **Current Status**
Displays detailed printer status information, including status messages. If the ink runs low or out, you can click the **How to** button to display cartridge replacement instructions and move the print head to the cartridge replacement position.
- ☐ **Ink levels**
Provides a graphic display of the amount of ink remaining.

Chapter 6

Using the Printer Software for Macintosh

Printer Software Introduction	6-2
Making Changes to Printer Driver Settings.....	6-2
Making the Media Type settings	6-4
Using the Automatic settings	6-6
Using the Photo Enhance setting	6-6
Using the Custom settings.....	6-7
Using the Advanced settings	6-8
Saving and deleting your Advanced settings.....	6-10
Using your saved settings.....	6-11
Changing the page setup.....	6-11
Defining a custom paper size	6-12
Modifying the layout	6-14
Setting the print time	6-19
Previewing your printout	6-20
Saving print data in files	6-22
Using the Printer Utilities for Macintosh.....	6-23
EPSON StatusMonitor	6-24
Nozzle Check.....	6-24
Head Cleaning.....	6-24
Print Head Alignment	6-24
Configuration	6-25

Printer Software Introduction

The printer software includes a printer driver and printer utilities. The printer driver lets you choose from a wide variety of settings to get the best results from your printer. The printer utilities help you check the printing parts of your Stylus Scan, and keep them in top condition.




For information on using the printer driver, see “Making Changes to Printer Driver Settings” on page 6-2.

For information on using the printer utilities, see “Using the Printer Software for Macintosh” on page 6-1.

You can get more information about the printer software by clicking the help icon button in the printer software dialog boxes.

Making Changes to Printer Driver Settings

You can make the printer driver settings in the following dialog boxes.

- ☐ **Print** dialog box (select **Print** on the **File** menu of your application or click **Options** in the **Page Setup** dialog box)
- ☐ **Page Setup** dialog box (select **Page Setup** on the **File** menu of your application)
- ☐ **Layout** dialog box (click the  Layout icon button in the **Print** dialog box)
- ☐ **Background Printing** dialog box (click the  Background Printing icon button located in the **Print** dialog box)
- ☐ **Preview** dialog box (click the  Preview icon button and then click **Preview** in the **Print** dialog box)

Note:

*The driver settings are not saved from one application to the next. However, the settings are saved with each document and are restored if the settings are made from the **Page Setup** dialog box. Whenever you exit one application and start up a new one, check that the printer settings are still appropriate. For example, if you choose **Photo Quality Ink Jet Paper** in one application, you need to re-select it if you exit the application and open a new application.*

The settings are arranged to give you three levels of control over the printer driver, as explained below.

Automatic	The quickest and easiest way to start printing. See "Using the Automatic settings" on page 6-6.
PhotoEnhance	Lets you apply a variety of image-correction settings specially designed for photos. See "Using the Photo Enhance setting" on page 6-6.
Custom	Choose from a list of ready-made settings suited to the kind of document you want to print. You can also add your own settings to this list. See "Using the Custom settings" on page 6-7.
Advanced	Allows you to make detailed settings to fit your individual needs. You can also add your settings to the Custom settings list. See "Using the Automatic settings" on page 6-6.

In addition to making groups of settings that affect overall print quality, you can also change page setup and layout using the **Page Setup** and the **Layout** dialog boxes. For information on page setup options, see "Changing the page setup" on page 6-11. For information on page layout options, see "Modifying the layout" on page 6-14.

Making the Media Type settings

The Media Type settings determines what other settings are available, so you should always make this setting first.

In the **Print** dialog box, select the Media Type setting that matches the paper you loaded in the printer. Find your paper in the list below, then select a corresponding Media Type setting (shown in bold). For some kinds of paper, you have several Media Type settings to choose from.

Plain Paper

Plain paper

Envelopes

EPSON Premium Ink Jet Plain Paper (A4)	S041214
--	---------

360 dpi Ink Jet Paper

EPSON 360 dpi Ink Jet Paper (A4)	S041059
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EPSON Iron-On Cool Peel Transfer Paper (A4)	S041154
---	---------

Photo Quality Ink Jet Paper

EPSON Photo Quality Ink Jet Paper (A4)	S041061
--	---------

EPSON Photo Quality Ink Jet Card (A6)	S041054
---------------------------------------	---------

EPSON Photo Quality Ink Jet Card (5 × 8")	S041121
---	---------

EPSON Photo Quality Ink Jet Card (8 × 10")	S041122
--	---------

EPSON Photo Quality Self Adhesive Sheet (A4)	S041106
--	---------

EPSON Ink Jet Note Cards A6 (with envelopes)	S041147
--	---------

EPSON Ink Jet Greeting Cards 5 x 8" (with envelopes)	S041148
--	---------

EPSON Ink Jet Greeting Cards 8 x 10" (with envelopes)	S041149
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Photo Paper

EPSON Photo Paper (A4)	S041140
EPSON Photo Paper (Letter)	S041141
EPSON Photo Paper (4 × 6")	S041134
EPSON Photo Paper (100 × 150 mm)	S041255
EPSON Photo Paper (200 × 300 mm)	S041254
EPSON Panoramic Photo Paper (210 × 594 mm)	S041145
EPSON Photo Paper Cards (A4)	S041177

Photo Quality Glossy Film

EPSON Photo Quality Glossy Film (A4)	S041071
EPSON Photo Quality Glossy Film (A6)	S041107
EPSON Photo Stickers 16 (A6)	S041144
EPSON Photo Stickers 4 (A6)	S041176

Ink Jet Transparencies

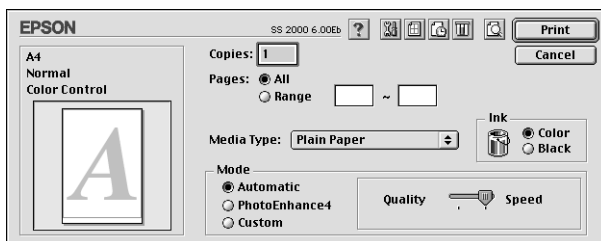
EPSON Ink Jet Transparencies (A4)	S041063
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Matte Paper-Heavyweight

EPSON Matte Paper-Heavyweight (A4)	S041256
------------------------------------	---------

Using the Automatic settings

When Automatic is selected as the Mode setting in the **Print** dialog box, the printer driver takes care of all detailed settings based on the current Media Type and Ink settings. To make the Ink setting, click **Color** to print in color, or **Black** to print in black-and-white or grayscale. To make the Media Type setting, see “Making the Media Type settings” on page 6-4.



Note:

Depending on the media you choose in the **Media Type** list while **Automatic** is selected, a slide bar appears in the **Mode** box that lets you choose **Quality** or **Speed**. Select **Quality** when print quality is more important than speed.

Using the Photo Enhance setting

Selecting **Photo Enhance** allows you to make a variety of image-correction settings to your photo images before printing. Photo Enhance does not affect your original data.

If you are printing photos taken with a digital camera, you can also select the **Digital Camera Correction** check box to give your printed images the smooth, natural appearance of photographs taken with a film camera.

Note:

☐ This setting is available only when you are printing in color.

- ❑ *Printing with Photo Enhance selected may increase print time depending on your computer system and the amount of data contained in your image.*

When using Photo Enhance, you can make the following settings.

Standard	Standard image correction for most photos. Try this setting first.
People	Best for photos of people.
Nature	Best for outdoor scenery such as mountains, skies, and oceans.
Soft Focus	Makes your photos look as if they were taken with a soft-focus lens.
Sepia	Applies a sepia tone to your photos.

Using the Custom settings

The **Custom settings** list lets you make a wide range of changes with a single click of the mouse. In this list, you'll find ready-made settings provided by EPSON designed to match a particular kind of printout, such as graphs and charts for a presentation or images taken by a digital camera.

You can also create your own settings and add them to this list. See "Using the Advanced settings" on page 6-8.

The **Custom Settings** list includes the following ready-made settings.

Text/Graph	Good for printing presentation documents such as graphs and charts.
Economy	Good for printing drafts of text.
ColorSync	This feature automatically adjusts printout colors to match colors on your screen.

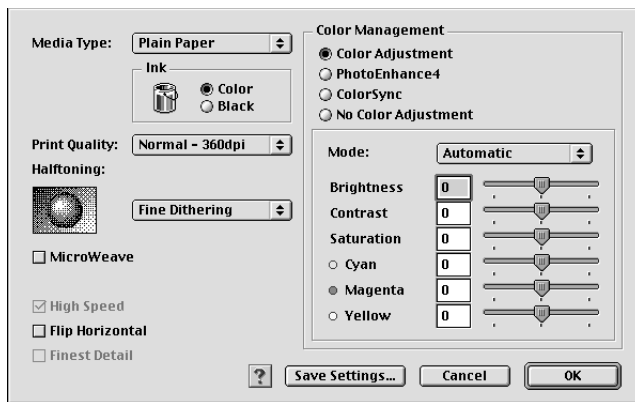
Follow these steps to select a custom setting.

1. First, verify the Media Type and Ink settings in the **Print** dialog box. For details, see “Making the Media Type settings” on page 6-4.
2. Click the **Custom** button in the **Print** dialog box. This activates the **Custom Settings** list, located below and to the right of the **Custom** radio button.
3. From the **Custom Settings** list, select the most appropriate setting for the type of document or image you will print.
4. When you choose a custom setting, other settings such as **Print Quality**, **Halftoning**, and **Color** are set automatically. Changes are shown in the Current Settings display on the right side of the **Print** dialog box.

Using the Advanced settings

The Advanced settings give you complete control over your printing environment. Use this setting to experiment with new printing ideas, or to fine-tune a range of print settings to meet your individual needs. Once you are satisfied with your new settings, you can give them a name and add them to the **Custom Settings** list.

1. Click the **Custom** button in the **Print** dialog box, then click the **Advanced** button. The **Advanced** dialog box appears.



2. Select the Media Type that you loaded in the EPSON Stylus Scan. For details, see “Making the Media Type settings” on page 6-4.
3. Choose **Color** or **Black** in the Ink option.
4. Select the Print Quality setting.
5. Make other settings. For details, see online help.

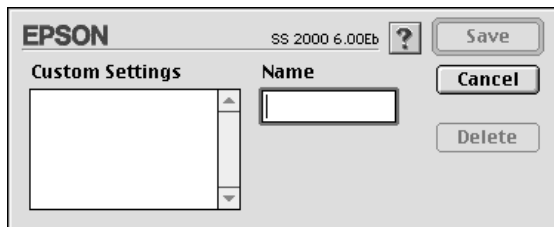
Note:

Some settings are enabled or disabled depending on the Print Quality, Media Type, and Ink settings you make.

6. Click **OK** to apply your settings and return to the **Print** dialog box. Click **Cancel** to return to the **Print** dialog box without applying your settings. To save your Advanced settings, see the next section.

Saving and deleting your Advanced settings

To save your Advanced settings as a group, click **Save Settings** in the **Advanced** dialog box. The **Custom Settings** dialog box appears.



Type a unique name (up to 16 characters) for your settings in the **Name** box, then click **Save**.

Note:

The names of the ready-made settings provided by EPSON cannot be applied to your new settings.

You can save up to ten groups of settings. You can select your saved group of settings from the settings list in the **Print** dialog box.

To delete a setting, select the setting in the **Custom Settings** dialog box and click **Delete**.

Note:

*You cannot delete the ready-made settings from the **Custom Settings** list.*

Using your saved settings

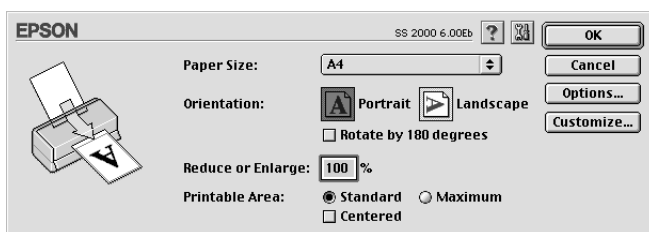
To select your settings, click the **Custom** button in the **Print** dialog box, then select your setting in the **Custom Settings** list, located below and to the right of the **Custom** button.

If you change the Media Type or Ink option when one of your customized settings is selected in the settings list, the selection shown in the list returns to **Custom Settings**. The customized setting that was previously selected is not affected by this change. To return to your customized setting, simply reselect it in the list.

Changing the page setup

In the **Page Setup** dialog box, you can change the paper size, specify the orientation of your printout, and adjust the printable area.

Choose **Page Setup** on the **File** menu of your application. The **Page Setup** dialog box appears.



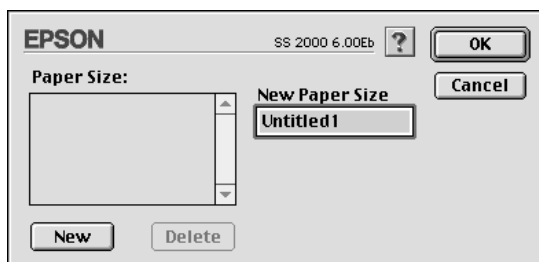
You can change the following settings.

Paper Size	Select the paper size you want to use. If you want to define a custom paper size, see "Defining a custom paper size" on page 6-12.
Orientation	Use this setting to specify the direction of printing on the page: Portrait (tall) or Landscape (wide). If you need to print close to the bottom of the page, click Rotate by 180 degrees .
Reduce or Enlarge	Use this setting to reduce or enlarge the size of your image.
Printable Area	Select Maximum to increase the printable area. Note: Print quality may decline at the edges of the expanded printable area. Print a single sheet to confirm quality before printing large jobs using this setting. Also, make sure the paper loaded in the paper feeder is not curled. Click Centered to position your printout at equal distances from the edges of the paper.

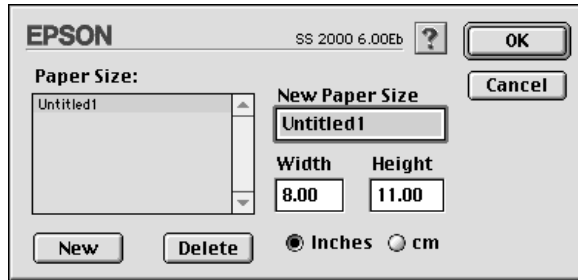
Defining a custom paper size

If your paper size is not included in the **paper size** list in the **Page Setup** dialog box, follow the steps below to define a custom paper size.

1. In the **Page Setup** dialog box, click **Customize**. The following dialog box appears.



2. To define a new paper size, click **New**. The dialog box updates to allow you to enter a name for the new size.




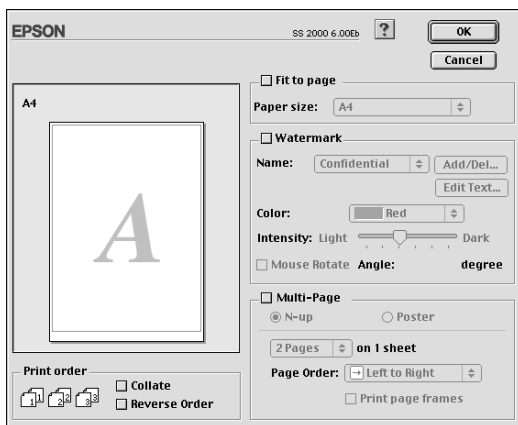
3. Type the paper size name in the **New Paper Size** box.
4. Specify the measurement unit as either **Inches** or **cm**.
5. Type in the width and the height.
6. Click **OK** to return to the **Page Setup** dialog box.

You can define up to 30 paper sizes. The paper size names you create will appear in the **Paper Size** menu in the **Page Setup** dialog box.

To delete a custom paper size, click **Customize** in the **Page Setup** dialog box, select its name from the list in the **Custom Paper** dialog box, and click **Delete**.

Modifying the layout

You can modify the page layout of your document using the printer driver settings located in the **Layout** dialog box, shown below. To open this dialog box, click **Print** on the **File** menu of your application and click the  Layout icon button in the **Print** dialog box. The **Layout** dialog box appears.



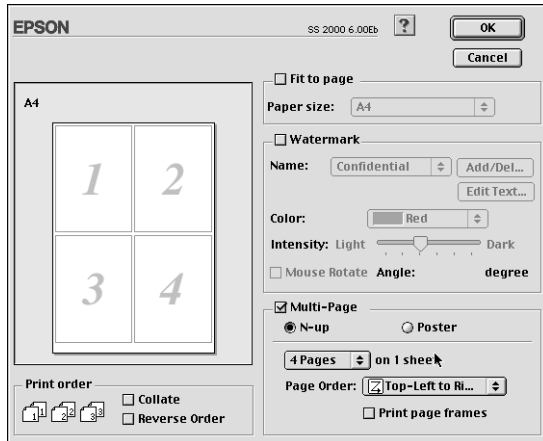
The **Layout** dialog box allows you to automatically match the document size to the paper size, print two or four pages on a single sheet, print poster-size images by enlarging one page to cover several sheets, or place watermarks on documents.

Fitting your document to the paper size

You can proportionally enlarge or reduce the size of the image to make it fit the paper size you selected in the **Paper Size** list. To do this, select the **Fit to Page** check box and select the paper size you loaded in the printer.

Printing two or four pages on one sheet

To print two or four pages of your document on one sheet of paper, use the **Multi-Page** option in the **Page Layout** dialog box.

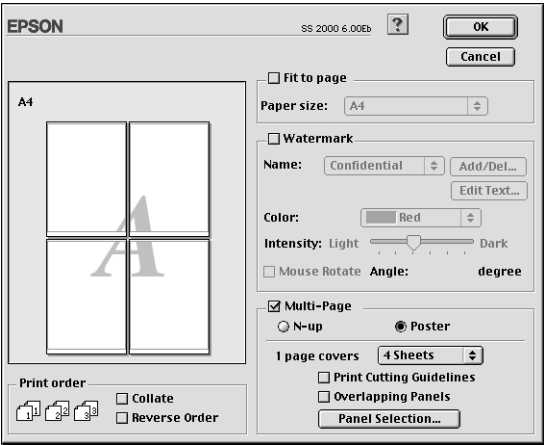


Select the **Multi-Page** check box and click **N-up**. Then make the following settings.

2 Pages 4 Pages	Prints 2 or 4 pages of your document on a single piece of paper.
Page Order	Allows you to specify the order of the pages you want to print.
Print page frames	Allows you to print a frame around each page on the sheet of paper.

Printing posters

You can use the Poster setting in the Multi-Page option to print a poster-size image. A single document page can be enlarged to cover four, nine, or 16 printed pages.



Select the **Multi-Page** check box and click **Poster**. Then make the following settings.

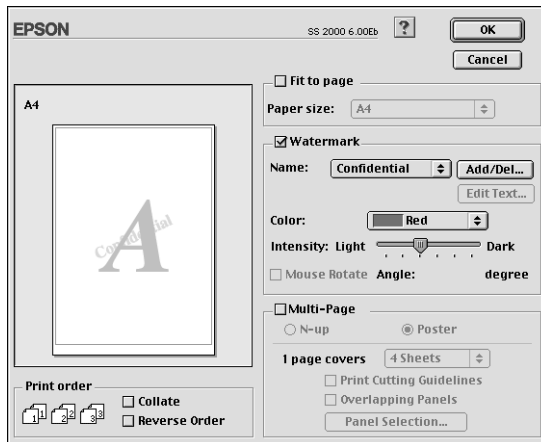
1 Page covers xx sheets	Specifies how many printed pages the enlarged document page is to cover. You can select four, nine, or 16 pages.
Overlapping Panels	Slightly overlaps the images so that they can be aligned more precisely.
Print Cutting Guidelines	Prints border lines on the images to guide you when trimming the pages.

If you only want to print a few of the panels without printing the entire poster, click **Panel Selection** button then click the panels you do not want to print and click **OK**. Only the panels that you did not click will be printed.

Printing a watermark on your document

To print a watermark in the background of your printed documents or images, select the **Watermark** check box in the **Page Layout** dialog box.

Select the watermark you want to print from the **Watermark Name** list; then select its position, size, color, and intensity. You can change the position and size of the watermark by dragging it with your mouse in the preview window on the left.

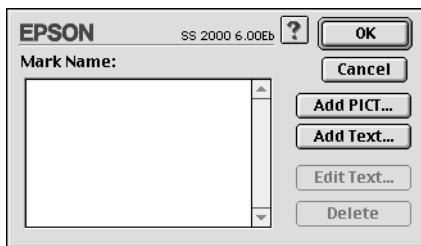


You can add your own text-based or image-based watermarks to the **Watermark Name** list. Follow these steps.

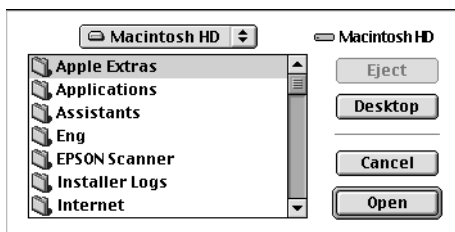
Note:

Custom Watermark allows you to save PICT files as watermarks. If you have QuickTime 2.1 or higher, images in other formats can be used as watermarks because QuickTime automatically converts them to PICT files. A message is displayed if QuickTime encounters a graphics file that cannot be converted.

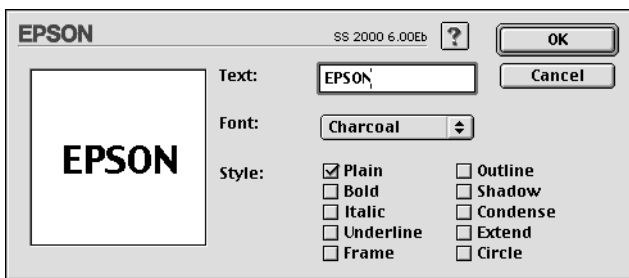
1. Click the **Add/Del** button beside the **Watermark Name** list. The following dialog box appears.



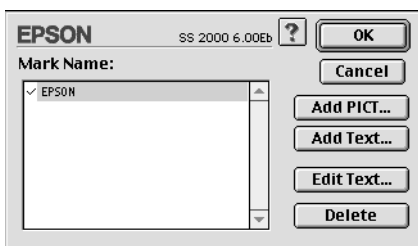
2. To use an image file as a watermark, click the **Add PICT** button. Select the image file from the list, then click **Open**.



To create a text-based watermark, click the **Add Text** button. Enter the text in the **Text** box, select a font and text style, then click **OK**.



3. The image file name or the watermark text appears in the list in the **watermark** dialog box. To change the name of the watermark, click it in the list, then type a new name.



4. Click **OK** to add your watermark to the **Watermark Name** list.

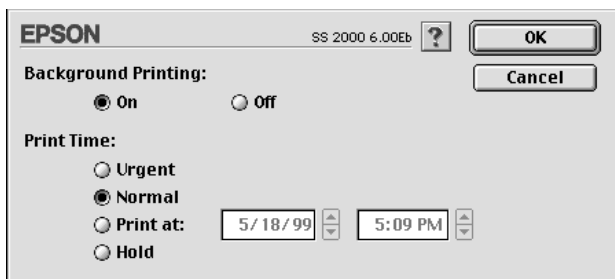
Note:

When a text watermark is selected in the **Watermark Name** list, you can edit the text and change the font and text style by clicking the **Edit Text** button.

Setting the print time

You can specify the time that you want the printer to start printing your document. Follow these steps.

1. Click the  **Background Printing** icon button in the **Print** dialog box. The **Background Printing** dialog box appears.



2. Click **On** to turn on background printing, if necessary.
3. Select **Urgent**, **Normal**, **Print at**, or **Hold** from the **Print Time** list.

If you select **Print at**, use the arrows beside the date and time boxes to specify the date and time you want to print the document.

Note:


Make sure the computer and printer are turned on at the date and time you specified.


4. Click **OK**. The **Background Printing** dialog box closes.
5. In the **Print** dialog box, make sure your print settings are as you want them, then click **Print**.

Note:




You can check or change the priority of print jobs using the EPSON Monitor3 utility. See “Controlling Background Printing” on page 7-4 for details.

Previewing your printout

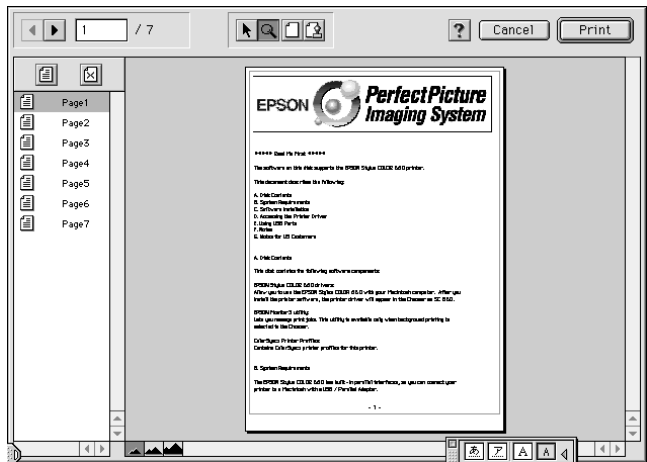
The  Preview icon button in the **Print** dialog box allows you to see how your document will look before actually printing it. Follow these steps to use this feature.

1. Make your printer driver settings.
2. Click the  preview icon button in the **Print** dialog box. The **Print** button changes into a **Preview** button.

Note:

Use the  preview icon button to switch between the  Print, Preview, and  Save File modes. Click the icon to select the mode you want. For information on the Save File mode, see “Saving print data in files” on page 6-22.

- Click the **Preview** button. The **Preview** dialog box appears and displays a preview of your document.




The **Preview** dialog box contains six icon buttons you can use to perform the following functions.

	Selection	Lets you select, move, and resize watermarks.
	Zoom	Enlarges or reduces the size of the previewed page.
	Margin Display/ Non-Display	Shows or hides borderlines indicating the printable area.
	Watermark Editing	Shows or hides the Watermark Edit box. Use this box to apply watermarks to the document.
	Add page Remove page	Lets you select or deselect the pages you want to printout from the left-side column.




4. If you are satisfied with the previewed image, click **Print**.


If you are not satisfied with the appearance of the image, click **Cancel**. The **Preview** and **Print** dialog boxes close with the current print settings preserved. Open the **Print** dialog box again to make more changes to the print settings.


Saving print data in files

You can save print data in a file by using the  preview icon button in the **Print** dialog box. This feature lets you print the data at a later time simply by double-clicking the saved file. Follow these steps.


Note:

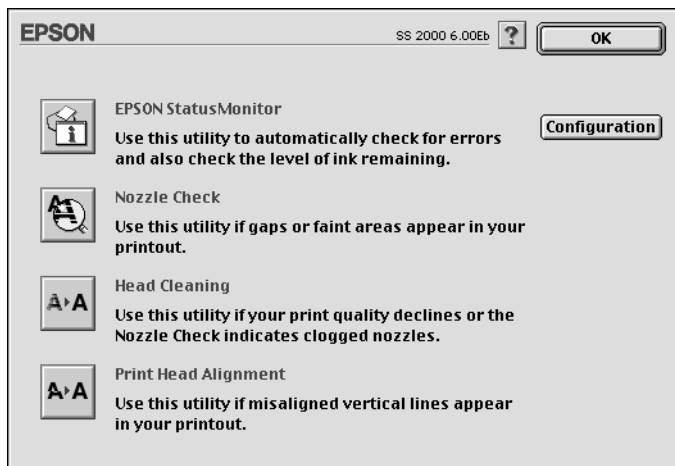
*Use the  preview icon button to switch between the  **Print**, **Preview**, and  **Save File** modes. Click the icon to select the mode you want. For information on the **Save File** mode, see “Saving print data in files” on page 6-22.*

1. Make your printer driver settings.
2. Click the  preview icon button in the **Print** dialog box repeatedly until the **Print** button changes into the **Save File** button.
3. Click the **Save File** button.
4. Select the location where you want to save the file, then type a file name into the **File Name** box and click **Save**.

When you want to print the data, double-click the file to open EPSON Monitor3. Click the  resume button to send the data to the printer.

Using the Printer Utilities for Macintosh

EPSON printer utilities allow you to check the current printer status and do some printer maintenance from your screen. To access the utilities, click the  Utility icon button in the Print or **Page Setup** dialog box, then click the button for the utility you want to use.



Note:

Do not use the Nozzle Check, Head Cleaning, or Print Head Alignment utilities while printing is in progress; otherwise your printout may be marred.

EPSON StatusMonitor

The StatusMonitor utility regularly monitors the printer status. If it detects a printer error, it informs you with an error message.

You can also use this utility to check the amount of ink is remaining before printing.

To use the StatusMonitor, click the **EPSON StatusMonitor** button in the **Utility** dialog box. For details, see “Using the EPSON StatusMonitor” on page 7-2.

Nozzle Check

Checks the print head nozzles for clogging. Use this utility if you notice print quality has declined and also after cleaning to confirm that the print head nozzles have been cleaned. If the nozzle check indicates the print head needs cleaning, you can access the Head Cleaning utility directly from the Nozzle Check utility. For details, see “Checking the Print Head Nozzles” on page 11-2.

Head Cleaning

Cleans the print head. You may need to clean the head when you notice print quality has declined. Use the Nozzle Check utility first to confirm that the head needs to be cleaned. For details, see “Cleaning the Print Head” on page 11-5.

Print Head Alignment

This utility aligns the print head. Use this utility if you notice a misalignment of vertical or horizontal lines.

Configuration

Clicking this button displays the **Configuration** dialog box, where you can change the way the StatusMonitor utility notifies you when the printer status changes. For details, see “Making Configuration Settings” on page 7-3.

Chapter 7


Checking Printer Status and Managing the Print Jobs for Macintosh

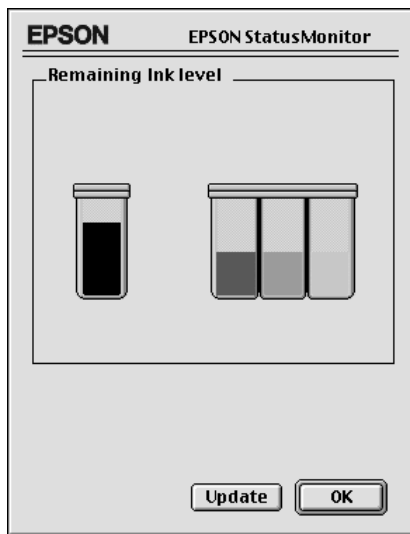
Using the EPSON StatusMonitor	7-2
Making Configuration Settings	7-3
Controlling Background Printing	7-4
Using EPSON Monitor3	7-5
Changing the priority of print jobs	7-7

Using the EPSON StatusMonitor

The StatusMonitor utility monitors the EPSON Stylus Scan's printing functions. If it detects a printer error, it informs you with an error message. You can also use this utility to check ink levels before printing.

To access the StatusMonitor, follow these steps.


1. Click **Print** or **Page Setup** on the **File** menu of your application.
2. Click the  utility icon button in the dialog box.
3. Click the **EPSON StatusMonitor** button in the **Utility** dialog box. The following dialog box appears.

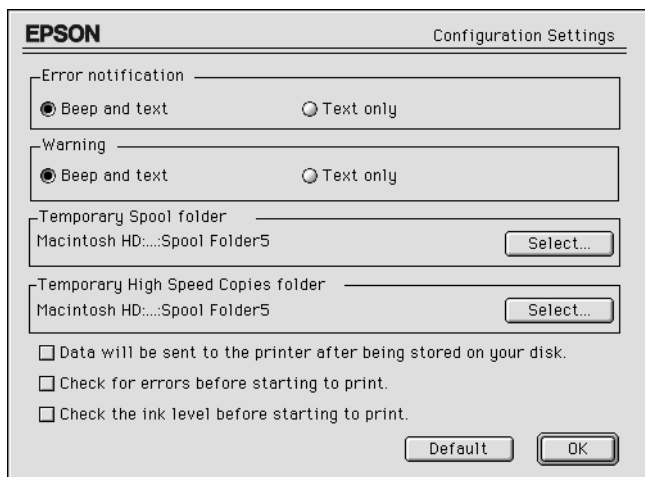


The StatusMonitor displays the amount of ink remaining at the time StatusMonitor was opened. To update the ink-level information, click the **Update** button.

Making Configuration Settings

If you want to change the way the StatusMonitor utility monitors the Stylus Scan's printing functions, follow the steps below.

1. Click **Print** or **Page Setup** on the **File** menu of your application.
2. Click  the Utility icon button in the dialog box.
3. Click the **Configuration** button. The **Configuration Settings** dialog box appears.



The options in this dialog box allow you to make the following settings.

Error notification	Choose how the StatusMonitor notifies you in case of an error.
Warning	Choose how the StatusMonitor notifies you if a warning message becomes necessary.
Temporary Spool folder	Choose the folder for temporary spooling of print data.
Temporary High Speed Copies folder	Choose the folders for multiple-copy print data storage.
Data will be sent to the printer after being stored on your disk	Select this check box to send the data together after the printing command file is made. When this check box is selected, the data is sent to the printer after making the command file for pages which are necessary for printing. This can prevent horizontal banding in your printout.
Check for errors before starting to print.	Select this check box if you want to check for errors before printing.
Check the ink level before starting to print.	Select this check box to check the ink level before printing.

Controlling Background Printing

After you send a print job to the EPSON Stylus Scan, you can use the EPSON Monitor3 utility to check cancel, or change the priority of the print jobs that are queued for printing. This utility also shows the status of the job currently being printed.

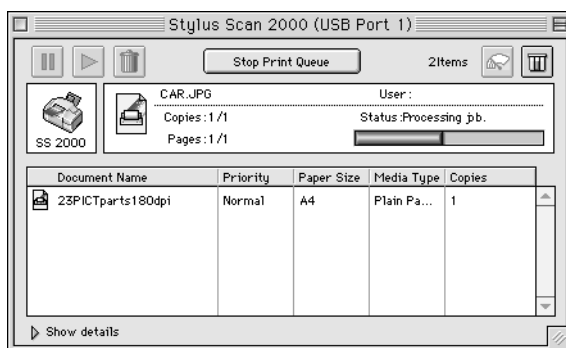
Note:

If the installation of a new application makes it impossible to use Background Printing, this is because some of the Extension files used by Background Printing have been overwritten as previous versions of themselves by the new application's installer. Re-install the Stylus Scan driver to solve this problem.

Using EPSON Monitor3

To use EPSON Monitor3, follow these steps.

1. First, turn on **Background Printing** in the **Chooser** or in the **Background Printing** dialog box.
2. Send a print job to the Stylus Scan.
3. Select **Epson Monitor3** from the **Application** menu at the right end of the menu bar. This opens a dialog box similar to the following:



Note:

*You can also open EPSON Monitor3 by double-clicking the **EPSON Monitor3** icon in the Extensions folder.*

- ☐ Use these buttons to pause, resume, and cancel printing for documents selected in the dialog box.



Hold

Stops printing and moves print jobs the end of the print queue



Resume

Resumes printing



Delete

Stops printing and deletes print jobs from the print queue

- ❑ Use these buttons to start the printer utilities.

Start/Stop Print Queue When you click the **Stop Print Queue** button, printing stops until you click **Start Print Queue**.

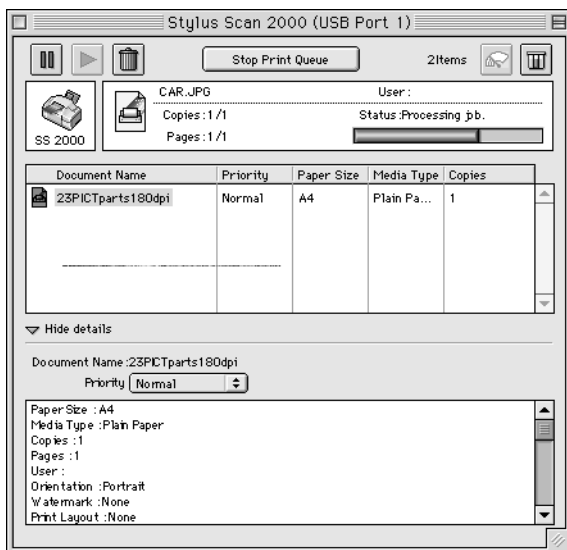


Print head cleaning Starts the Print Head Cleaning utility



Status Monitor Starts the StatusMonitor, which shows the remaining ink levels

- ❑ To preview a file, double-click the spool file in the list (this function is disabled when you are printing the ESC/P command file).
- ❑ To change the number of copies you want to printout, double-click **Copies**.
- ❑ If you click the **Show details** arrow, an extension similar to the one below appears at the bottom of the **EPSON Monitor3** dialog box. The extended dialog box displays detailed information on a selected document's printer driver settings.



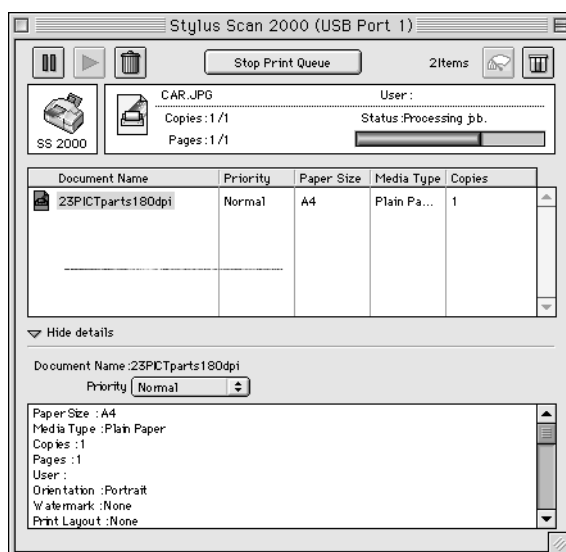
Changing the priority of print jobs

To change the priority of print jobs in a print queue, follow the steps below.

Note:

*You can also change the priority of print jobs whose print times were previously set in the printer driver's **Background Printing** dialog box.*

1. Click the **Show details** arrow at the bottom of the **EPSON Monitor3** dialog box, then click a document name in the **Document Name** box. An extended dialog box appears similar to the one below.



2. Select **Urgent**, **Normal**, **Hold**, or **Print Time** from the **Priority** list.

If you select **Print Time**, a dialog box appears allowing you to specify the date and time that you want to print the document.

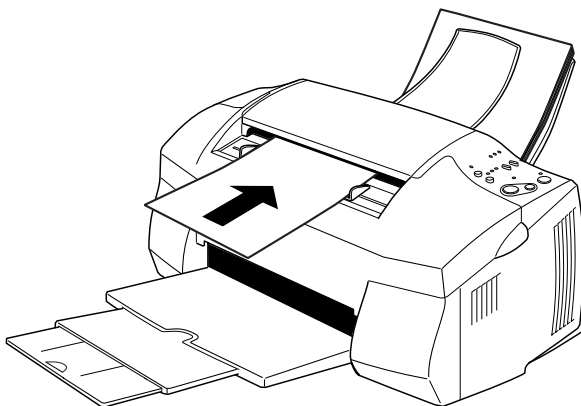
Chapter 8

Scanner

Loading the Document	8-2
Loading thin or fragile media	8-3
For Windows	8-5
Using the EPSON SMART PANEL	8-5
Scanning from software applications	8-11
For Macintosh	8-12
Scanning with PageManager	8-12
Scanning with applications other than PageManager	8-13
Understanding the Configuration settings	8-16

Loading the Document

1. Adjust the document edge guides so that distance between them is slightly wider than the width of the document.
2. Hold the document you want to scan with the image face down, and place the top edge of the document between the document edge guides.



Note:

- ☐ *Be sure to load the top of the document into the document feeder. If the document is too wide to fit into the feeder in this direction, try loading the document sideways. You can rotate the image 90 degrees with your software after scanning.*
 - ☐ *If your document is fragile or very thin, place it in the protection sheet before loading. See “Loading thin or fragile media” on page 8-3.*
3. Close the document edge guides so that they match the width of the document.
 4. Insert the top edge of the document into the document feeder until you feel a tug.

5. After the document is pulled slightly into the feeder, release the document. You are now ready to scan the document using your software.

To scan using Windows, see “For Windows” on page 8-5. To scan using a Macintosh, see “For Macintosh” on page 8-12.

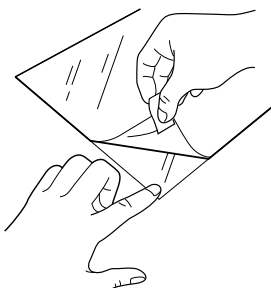
Loading thin or fragile media

Before you scan a photo or any other document that is very thin or fragile, insert it into the protection sheet packed with your Stylus Scan as described below. Then load the sheet into the document feeder.

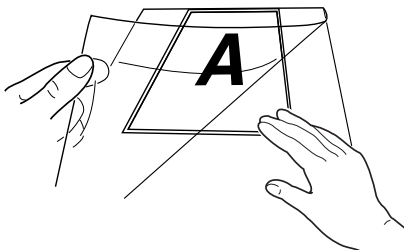
Note:

The protection sheet is reusable.

1. To use the protection sheet, first peel off the film by pulling up the tab.



2. Insert your document into the sheet.



Note:

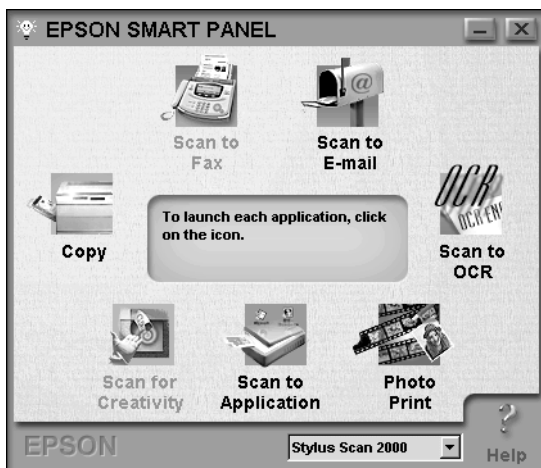
You can set the sheet squarely into place by first aligning the top of the document with the closed sheet edge.

3. Load the protection sheet following the steps in “Loading the Document” on page 8-2.

For Windows

Using the EPSON SMART PANEL

Using the EPSON SMART PANEL, you can obtain your photos and documents in digital form quickly and easily. When you setup the EPSON Stylus Scan drivers, the EPSON SMART PANEL is installed at the same time. To run the EPSON SMART PANEL, restart your computer. Then, click the SMART PANEL icon on the task bar at the bottom right of the screen. For details, see your SMART PANEL documentation.



Note:

You can not use the **Scan** button on the SMART PANEL when you use the Stylus Scan 2000.

There are two modes offered by Scan Assistant: Photo Scan Assistant and Document Scan Assistant. Photo Scan Assistant helps you to achieve optimal results acquiring colorful documents such as photos and magazines. This mode is used in various applications including E-mail, Scan to Application, and Scan for Creativity. The other mode, Document Scan Assistant, helps you scan documents for processing by optical character recognition (OCR) software.

Photo! Print

Photo! Print allows you to print images in many sizes, placing one or several on a page. You can create collages and print several versions of the same image quickly and easily with this utility.



FAX

Use Fax to send and receive faxes with your computer. This utility also allows you to quickly and easily store and manage all your fax documents on your computer.



Note:

If you do not install WinFax, you can not use this application.

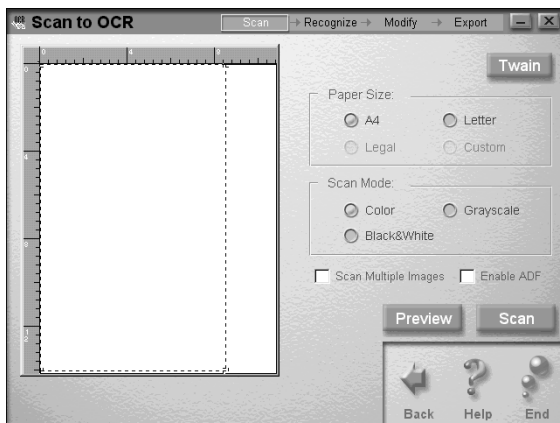
Copy

Copy is an application that turns your EPSON Stylus Scan into a digital copy machine. Its user interface looks like a real copy machine, yet its functions are more powerful and flexible than any copy machine available.



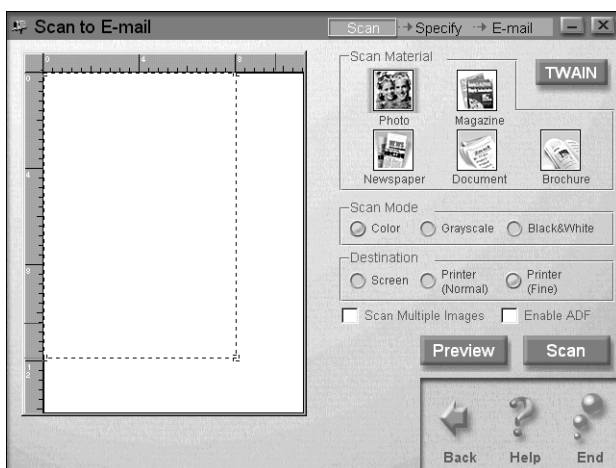
OCR

Use the OCR utility to scan text directly into a text file, or into a running word processor application. For instructions on using this feature, see your SMART PANEL documentation.



E-mail

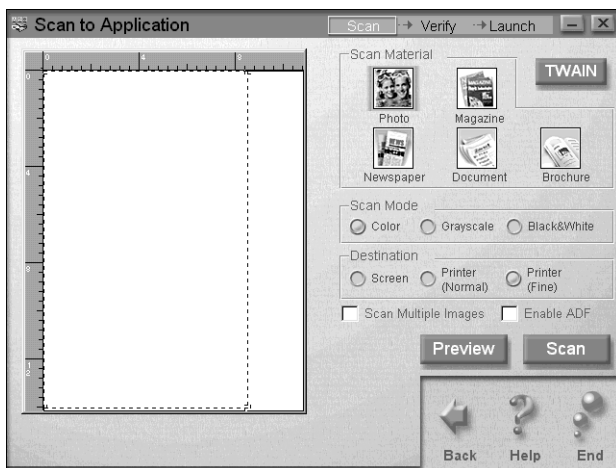
Use this feature to scan an image directly into an e-mail message.



The **Scan Assistant** dialog box appears, allowing you to make several settings. For instructions on using this feature, see your SMART PANEL documentation.

Scan to Application

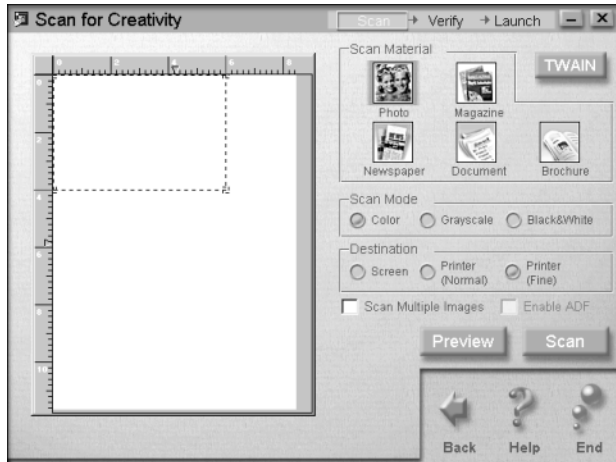
Scans and sends image data to a desired application for further editing.



The **Scan Assistant** dialog box appears. For instructions on using this feature, see your SMART PANEL documentation.

Scan for Creativity

Scan for Creativity is only available if Photo Deluxe Business Edition V1.0 is installed.



For instructions on using Scan for Creativity, see your SMART PANEL documentation.

Scanning from software applications

You can scan images directly from any application that is compatible with TWAIN. To determine whether an application is TWAIN-compatible, refer to that application's documentation.

The method for accessing EPSON TWAIN varies depending on the application. An example is shown below.

1. Start your application.
2. Select TWAIN Source from the **File** menu, and then select **EPSON Stylus Scan SF**.

Note:

Normally, you only need to perform this step the first time you use the scanner with your application.

3. Choose **Twain Acquire** from the **File** menu to open EPSON Stylus Scan SF TWAIN.

Note:

For details on using EPSON Stylus Scan SF TWAIN, refer to “Using EPSON Stylus Scan SF TWAIN to scan” on page 8-13.

For Macintosh

Scanning with PageManager

PageManager allows you to scan and send data directly to an assigned application. You can also scan to any target application by simply clicking on the application icon in PageManager’s Scan Buttons bar.

When you start PageManager, the Scan Buttons bar appears on your screen. The icons in this bar represent target applications or peripheral devices that can be accessed by your scanner. This means that you can scan and send data directly to these applications or devices by clicking on their icons.



Scanning with applications other than PageManager

You can scan images directly from any application that is compatible with TWAIN. To determine whether an application is TWAIN-compatible, refer to that application's documentation.

The method for accessing EPSON TWAIN varies depending on the application. An example is shown below.

1. Start your application.
2. Select TWAIN Source from the **File** menu, and then select **EPSON Stylus Scan SF**.

Note:

Normally, you only need to perform this step the first time you use the scanner with your application.

3. Choose **Twain Acquire** from the **File** menu to open EPSON Stylus Scan SF TWAIN.

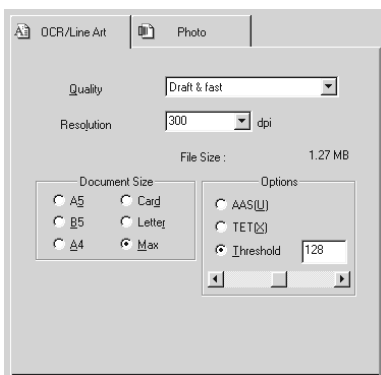
Using EPSON Stylus Scan SF TWAIN to scan

This section describes how to set up the EPSON Stylus Scan SF TWAIN. The individual functions are explained below.

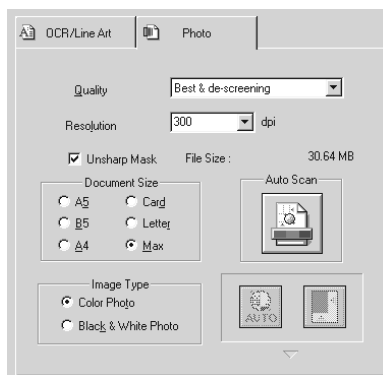
The EPSON Stylus Scan SF TWAIN displays one of two dialog boxes, depending on the type of document being scanned.

OCR/Line Art: This is used for scanning documents for OCR, and line art.

Photo: This is used to scan photographs.



OCR



Photo

Follow these steps to setup your EPSON Stylus Scan SF TWAIN software.

1. Launch the EPSON Stylus Scan SF TWAIN software.
2. Click either the OCR/Line Art or Photo tab, depending on the type of document you wish to scan.
3. Select the desired settings for Quality, Resolution and Document Size.
4. Set various options as needed. For details, refer to the section below or your Online Help.
5. To scan only a portion of the document, click the **Preview** button. A preview image of the document is displayed, allowing you to specify the area of the document you wish to scan.
6. When set-up is complete, click the **Scan** button to scan the image.

EPSON Stylus Scan SF TWAIN settings

This section describes the various EPSON Stylus Scan SF TWAIN settings. Use the settings best for your particular document and scan data application.

Quality

Best & de-screening

This setting eliminates moiré patterns and produces the highest quality scan.

Draft & Fast

This setting sacrifices quality to give you a high-speed scan.

Resolution

Choose a resolution from the list box value between 50 and 4800 dpi.

Document Size

Select the size of the document to be scanned. Only the area within the selected size will be scanned.

OCR/Line Art options

AAS (Auto Area Segmentation)

Select AAS (Auto Area Segmentation) by clicking the radio button. This function separates text from photographs on a page so that grayscale images are clearer and text recognition is more accurate.

This setting does not affect images in the preview window.

TET (Text Enhancement Technology)

Select TET (Text Enhancement Technology) by clicking the radio button. This function eliminates the document background and raises the recognition accuracy. It is suitable for OCR (Optical Character Recognition) scanning.

This setting does not affect images in the **Preview** window.

Threshold

Select **Threshold** by clicking the radio button, then select a threshold value from **0** (lightest) to **255** (darkest). The threshold setting determines whether gray shades are scanned as black or white when scanning black-and-white images.

Photo options

Image Type

Select **Full Color** or **Grayscale**.

Auto Scan button

Click the **Auto Scan** button to automatically preview the full page, locate the image, set the exposure, and scan.

Auto Exposure button

Click to automatically set the exposure of the image inside the marquee for optimum enhancement.

Auto Locate button

Click the **Auto Locate** button to automatically place the marquee around the image in the preview window. The white borders surrounding the image are identified and discarded. If a document contains more than one image, use your mouse to select the general area around the image you want, then click **Auto Locate** to place the marquee more precisely.

Understanding the Configuration settings

Save Preview Image and Settings

Select the **Save Preview Image and Settings** check box to save the previewed image and the image processing parameters when you perform a scan or close EPSON Stylus Scan SF TWAIN.

Automatic Preview

Select the **Automatic Preview** check box to automatically preview images captured by EPSON Stylus Scan SF TWAIN.

ICM, ICM/sRGB (For Windows 95/98)

Select the **ICM** check box for Windows 95 or **ICM/sRGB** check box for Windows 98 to reproduce the colors in your image using ICM (Image Color Matching) with Windows.

If your operation system is Windows 98, using color matching with other sRGB devices gets the best results.

ColorSync (Macintosh)

Select the **ColorSync** check box to reproduce the colors in your image using the ColorSync calibration method.

Chapter 9

Copier

Loading the Paper	9-2
Using the Copy Utility (from EPSON SMART PANEL)	9-3
Accessing the Copy Utility	9-3
Making Copy Settings in the Copy Utility	9-4
Copying Using Stylus Scan's Control Panel	9-7
Selecting the Ratio and the Mode.....	9-7
Setting the magnification.....	9-7
Selecting the copy mode	9-8
Checking the current paper size for copying	9-9
Changing the paper size for copying.....	9-10

Loading the Paper

1. Hold the document with the image you want to copy face down, and place the top edge of the document between the document edge guides.
2. Close the guides so they match the width of the document.
3. Insert the top edge of the document into the document feeder until you feel a tug.

Note:

If your document is fragile or very thin, place it in the protection sheet before loading. See “Loading thin or fragile media” on page 8-3.

4. After the document is pulled slightly into the feeder, release the document. You are now ready to make a copy, using either the control panel on your EPSON Stylus Scan or the Copy Utility.

Note:

- ☐ *To eject the document from the document feeder without copying, press the ⏻ stop/clear button.*
- ☐ *Remove all paper from the output tray before copying.*
- ☐ *Remove any documents from the document feeder before printing.*

Using the Copy Utility (from EPSON SMART PANEL)

Copy Utility is a function within EPSON SMART PANEL. Before you can use it, you must install the EPSON Stylus Scan Software and EPSON SMART PANEL in the computer. Refer to the *Setup Guide* for details on installation.

Note:

The Copy Utility is only available in Windows. For Macintosh, use PersonalCopy.

Accessing the Copy Utility

Follow these steps to access the Copy Utility.

1. Click **Start**, then select **Programs**, and **EPSON SMART PANEL** to launch the EPSON SMART PANEL application.
2. The EPSON SMART PANEL appears. Click the copier icon to launch the Copy Utility. The **Copy Utility** dialog box appears.

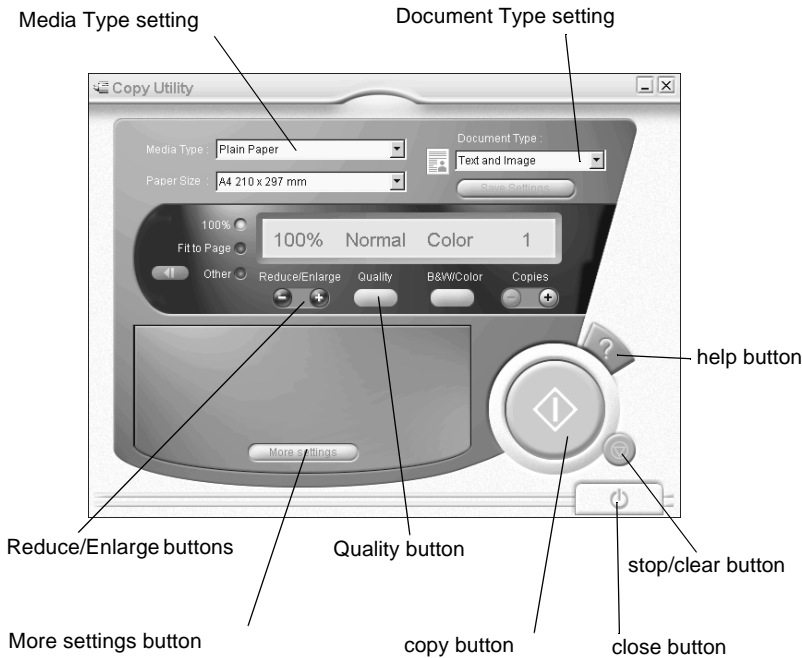
Note:

*The Copy Utility can also be started by pressing the **EPSON Stylus Scan** button.*

To make copy settings, see the next section.

Making Copy Settings in the Copy Utility

You can make copy settings in the **Copy Utility** dialog box.



See below to make your settings. If necessary, click the **More settings** button to make advanced and custom settings. After you finish making settings, click the **copy** button to begin copying.

Help button	Click for online help.
Stop/Clear button	Click to quit copying already in progress.
Copy button	Click to start copying.
Close button	Click to close the utility, or the menus for custom settings.
More settings button	Click to make custom settings.

Making paper and document settings



Media Type

Select the type that matches the paper you have loaded into the paper feeder.

Paper Size

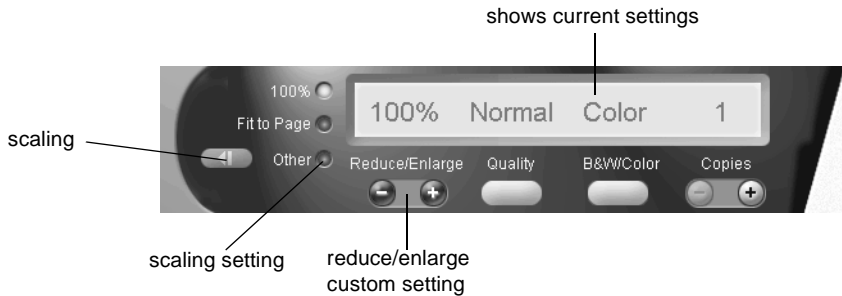
Select the size that matches the paper you have loaded into the paper feeder.

Document Type

Select the type that matches the original document that you are copying.

Text	Use if your document contains text only.
Photo	Use if you are copying from a photograph.
Text and Image	Use if your document includes both text and illustrations.
Save Settings	Click the Save Settings button to open the Document Type Setting list. You can save your original settings.

Making other basic settings




Reduce/Enlarge

To set the reduce/enlarge ratio, do either of the following:

- ☐ To make a copy that is the same size as your document, select **100%**.
- ☐ To automatically re-size the image to match the size of your paper size setting, select **Fit to Page**.

To set an arbitrary size, do either of the following:

- ☐ Select **Other**, then click the **+** or **-** button to adjust the setting.
- ☐ Click the  scaling button to open a dialog box where you can adjust the setting.

Quality

Click this button to select the quality for your copy.

Normal: Print quality is lower, but print speed is higher.

Fine: Provides high quality printout.

B&W/Color

Click to select between a black-and-white or color copy.

Copies

Use these buttons to select the number of copies you want to make. Press the **+** button to increase the number, or the **-** button to reduce it.

Copying Using Stylus Scan's Control Panel

Note:

EPSON recommends using the provided utilities for best results when copying photographs and similar documents.

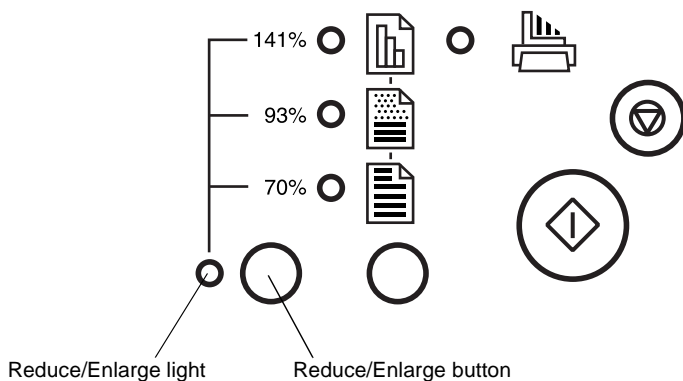
Selecting the Ratio and the Mode

When working from the control panel, begin by selecting the reduce/enlarge ratio and the copy mode.

Setting the magnification

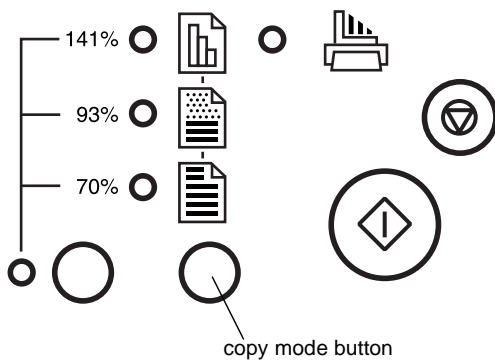
Press the **Reduce/Enlarge** button as necessary to select the desired magnification or reduction. The selector lights indicate the current ratio setting; the setting changes each time you press the button.

You can make the following settings: 100%, 70%, 93%, or 141%.



Selecting the copy mode

Press the copy mode button as necessary to select the mode you want. The setting changes each time you press the button; the selector lights indicate the current mode setting.





Color

Produces a color copy.



GrayScale

Produces a shaded black-and-white image. Use this setting when copying black-and-white or color images.



B&W

Produces a copy that is pure black on pure white. Use this setting when copying text.



Note:

The selector lights are used to indicate both the magnification ratio and the copy mode. Press the reduce/enlarge button and the reduce/enlarge light comes on. The light of the item currently selected also comes on. When you press the copy mode button, the lights change to indicate the mode setting.

When you are ready, press the  copy button to begin copying.

The document moves into the document feeder, then reverses direction and passes back out the feeder. At the same time, the EPSON Stylus Scan feeds a blank sheet of paper from the paper feeder, prints the image onto the paper, and ejects it into the output tray.



Note:

When copying a thin document that has images printed on both sides, unwanted parts of the image on the opposite side of the paper may appear in the copy. To avoid this, try selecting the  color or  grayscale copy mode.



Checking the current paper size for copying



The Stylus Scan can make copies on both A4 and Letter size paper. To check which paper size the Stylus Scan is currently set to copy on, you can print a page that indicates the current setting, or you can check the lights on the control panel.



Checking by printing a page

Make sure the Stylus Scan is off and paper is loaded into the paper feeder. While holding down the  copy button, press the  power button, then release both buttons. The Stylus Scan prints a page including the ROM version your Stylus Scan, and the current paper size for copying.



Checking by using the lights on the control panel

Make sure the Stylus Scan is off. While holding down the  stop/clear button, press  the power button. Then release both buttons and check the lights on the control panel.



If the  and  are on, A4 is the current paper size setting for copying.

If the  and  lights are on, Letter is the current paper size setting for copying.

Changing the paper size for copying

To change the current paper size setting for copying between A4 and Letter, make sure the Stylus Scan is off. While holding down the  stop/clear button, press  the power button. Then release both buttons.

If A4 is the current paper size setting, the  and  lights come on.

If Letter is the current paper size setting, the  and  lights turn on.

To switch between the two settings, press the  stop/clear button.

Replacing Ink Cartridges



Replacing Empty Ink Cartridges	10-2
Using the control panel	10-2
Replacing a color ink cartridge	10-3
Replacing a black ink cartridge	10-7
Using the Status Monitor 3	10-11
Replacing an Old or Damaged Ink Cartridge	10-11

Replacing Empty Ink Cartridges









Using the control panel


The printer's indicator lights will inform you when it is time to obtain a replacement ink cartridge and when it is time to replace an empty cartridge.

Note:

If you need to replace an ink cartridge when the  black and  color lights are off, see “Replacing an Old or Damaged Ink Cartridge” on page 10-11.

This table describes the status of the lights on your printer and the actions you need to take.

Lights	Action
 	Obtain a replacement black ink cartridge (S020189).
 	Replace the empty black ink cartridge.
 	Obtain a replacement color ink cartridge (S020191).
 	Replace the empty color ink cartridge.

■ = on,  = flashing



Caution:



- ❑ *EPSON recommends the use of genuine EPSON ink cartridges. Other products not manufactured by EPSON may cause damage to your printer not covered by EPSON's warranties.*
- ❑ *Leave the old cartridge installed in the printer until you have obtained a replacement. Otherwise, ink remaining in the print head nozzles may dry out.*

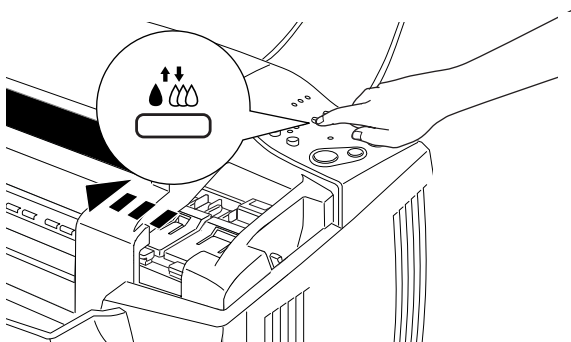
Note:

You cannot continue printing with one ink cartridge empty, even if the other cartridge still contains ink. Before printing, replace the empty cartridge.

Replacing a color ink cartridge

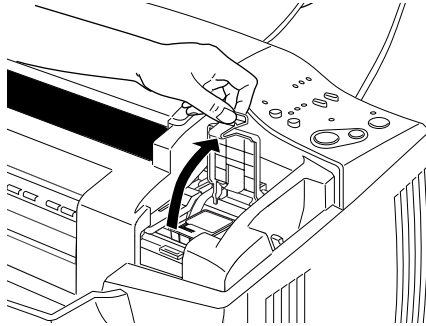
To replace an ink cartridge using the EPSON Stylus Scan's control panel, follow the steps below.

1. Lower the output tray on the front of the EPSON Stylus Scan, and then open the front cover.
2. Hold down the  cleaning button for three seconds, then release it. The printer head moves to the replacement position for the color ink cartridge and the  power light begins flashing.

**Caution:**

Do not move the print head by hand, as doing so may damage the mechanism.

3. Lift up the clamp over the color ink cartridge. The cartridge rises partly out of the cartridge holder. Then lift the cartridge out of the Stylus Scan and dispose of it properly. Do not take the used cartridge apart or try to refill it.



Warning:

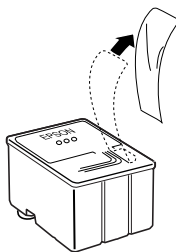
If ink gets on your hands, wash them thoroughly with soap and water. If ink gets into your eyes, flush them immediately with water.



Caution:

Once you open the ink cartridge clamp, you must remove and dispose of the cartridge, regardless of whether it still contains ink. Opening the clamp causes the cartridge to become unusable.

4. Remove your new color ink cartridge from its package. Then remove the yellow tape from the cartridge.

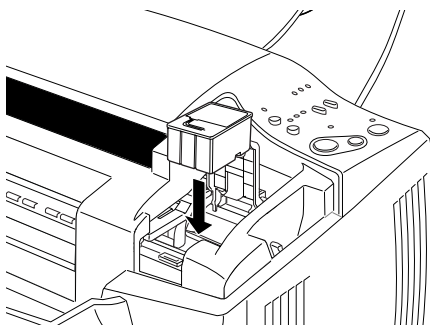


color ink cartridge (S020191)



Caution:


- ☐ You must remove the yellow tape seal from the cartridge before installing it. The cartridge will be permanently damaged if installed with the yellow tape attached.
 - ☐ Do not remove the blue portion of the tape seal from the top of the cartridge; otherwise, the print head may become clogged and cannot print.
 - ☐ Do not remove the tape seal from the bottom of the cartridge; otherwise, ink will leak.
5. Place the ink cartridge gently into the cartridge holder with the label on the cartridge face up. Then press the ink cartridge clamp down until it locks in place. Do not press down on the cartridge itself.





**Caution:**

Do not open the clamp again until you are ready to replace the cartridge. Opening a clamp may cause the currently installed cartridge to become unusable.

Note:


If you also need to replace the black ink cartridge, you can do so now. Press the  cleaning button and release quickly. The print head automatically moves to the replacement position for black. Refer to “Replacing a black ink cartridge” on page 10-7.

6. Press the  cleaning button and release quickly. The ink delivery system begins charging the ink. When charging is finished, the print head returns to its home position and the  power light comes on.

Note:



If you replace the ink cartridge before a print job is finished, the Stylus Scan automatically prints the remaining pages of the print job.

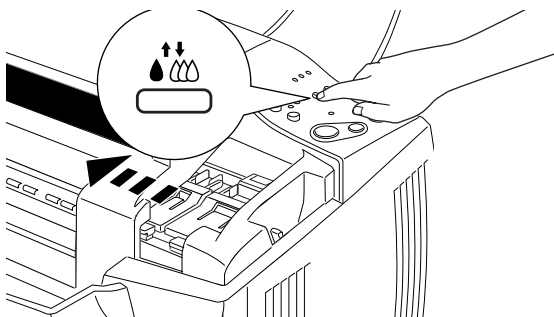
**Caution:**

The  power light continues to flash while charging is in progress. Never turn off the Stylus Scan while this light is flashing. Turning off the Stylus Scan during charging may result in incomplete charging of ink.

7. Close the front cover.

Replacing a black ink cartridge

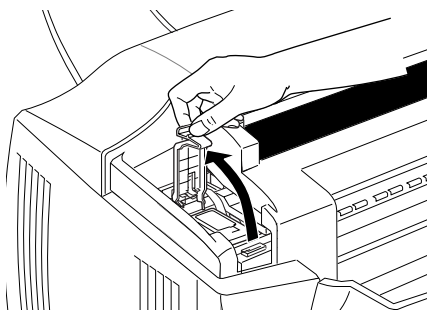
1. Lower the output tray on the front of the EPSON Stylus Scan, and then open the front cover.
2. Hold down the  cleaning button for three seconds, then release it. The print head moves to the cartridge replacement position for the black ink cartridge. The  power light begins flashing.



Caution:

Do not move the print head by hand, as doing so may damage the mechanism.

3. Lift up the clamp over the black ink cartridge as far as it will go. The cartridge rises partly out of the cartridge holder. Then lift the cartridge out of the Stylus Scan and dispose of it properly. Do not take the used cartridge apart or try to refill it.



**Warning:**

If ink gets on your hands, wash hands thoroughly with soap and water. If ink gets into your eyes, flush eyes immediately with water.

**Caution:**

Once you open the ink cartridge clamp, you must remove and dispose of the cartridge regardless of whether it still contains ink. Opening the clamp causes the cartridge to become unusable.

4. Remove your new black ink cartridge from its protective bag. Then remove the yellow tape seal from the cartridge.

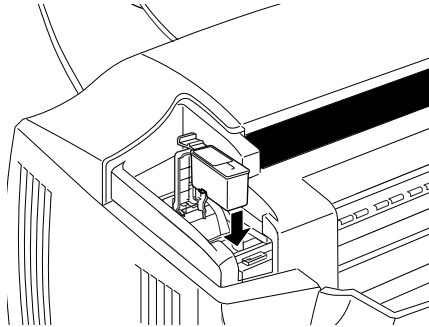


black ink cartridge (S020189)

**Caution:**



- ☐ *You must remove the yellow tape seal from the cartridge before installing it. The cartridge will be permanently damaged if installed with the yellow tape attached.*
- ☐ *Do not remove the blue portion of the tape seal from the top of the cartridge; otherwise, the print head may become clogged and cannot print.*
- ☐ *Do not remove the tape seal from the bottom of the cartridge; otherwise, ink will leak.*

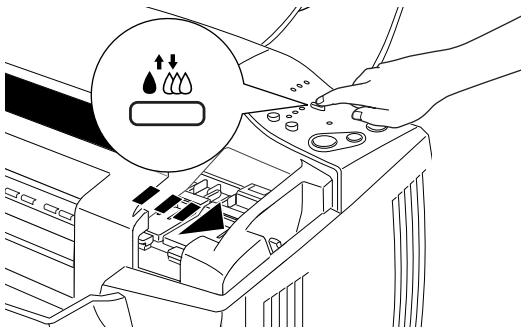
5. Place the ink cartridge gently into the cartridge holder with the label on the cartridge face up. Then press the ink cartridge clamp down until it locks in place. Do not press down on the cartridge itself.



Caution:

Do not open the clamp again until you are ready to replace the cartridge. Opening a clamp may cause the currently installed cartridge to become unusable.

6. Press the  cleaning button and release quickly. The ink delivery system begins charging the ink. When charging is finished, the print head returns to its home position and the  power light comes on.




Note:

If you replace the ink cartridge before a print job is finished, the Stylus Scan automatically prints the remaining pages of the print job.



Caution:

The  power light continues to flash while charging is in progress. Never turn off the Stylus Scan while this light is flashing. Turning off the Stylus Scan during charging may result in incomplete charging of ink.

7. Close the front cover.



Using the Status Monitor 3



You can monitor the remaining ink level from your computer and view on-screen instructions for replacing a low or empty ink cartridge.

When an ink cartridge is low or empty and you are ready to replace it, click the **How To** button in the Status Monitor's Printer Status window. The print head moves to the ink cartridge replacement position. Follow the on-screen instructions to replace the cartridge.

Replacing an Old or Damaged Ink Cartridge


In some circumstances you may need to replace an ink cartridge before it is empty. For example, if the quality of your prints and copies remains poor even after repeated cleaning and aligning of the print head, one or both of the ink cartridges may be old or damaged and should be replaced.



To replace an ink cartridge before the  color or  black ink out light flashes, follow these steps.

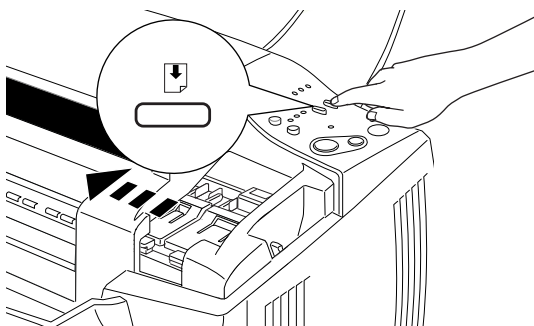
If the  color or  black ink out light is flashing or is on, replace the empty ink cartridge as described in "Replacing Empty Ink Cartridges" on page 10-2.




Caution:

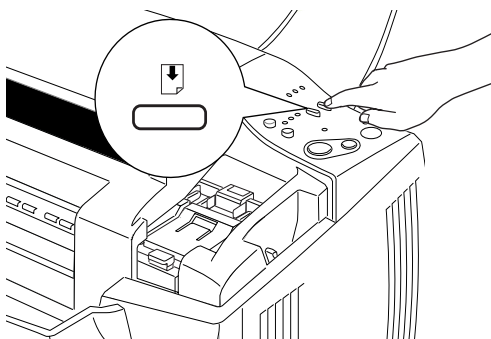
- ☐ *Once you remove an ink cartridge, it becomes unusable and cannot be reinstalled even if ink remains.*
 - ☐ *Leave the old cartridge installed in the EPSON Stylus Scan until you are ready to replace it with a new one.*
1. Make sure the Stylus Scan is on. The  power light should be on, but not flashing.
 2. Lower the output tray; then open the front cover.

3. Hold down the  load/eject button for three seconds, then release it; the print head moves to the color cartridge replacement position. The  power light begins flashing.

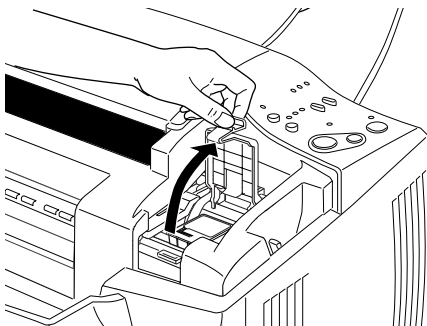


Note:

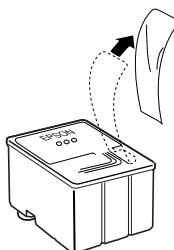
If you need to replace only the black ink cartridge, press the  load/eject button and release it quickly to move the print head to the black cartridge replacement position.



4. Lift the ink cartridge clamp. Then lift the cartridge out of the Stylus Scan and dispose of the ink cartridge properly.

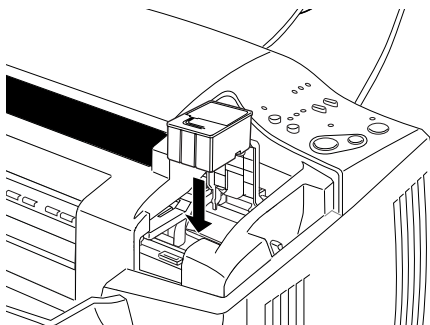


5. Remove the yellow tape seal from the new cartridge.




color ink cartridge (S020191)

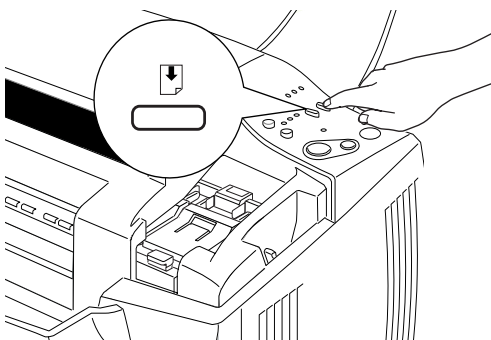
6. Place the cartridge gently into the cartridge holder. Do not press down on the cartridge. Then press the ink cartridge clamp down until it locks in place.




Caution:

Do not open the clamp again until you are ready to replace the cartridge. Opening a clamp may cause the currently installed cartridge to become unusable.

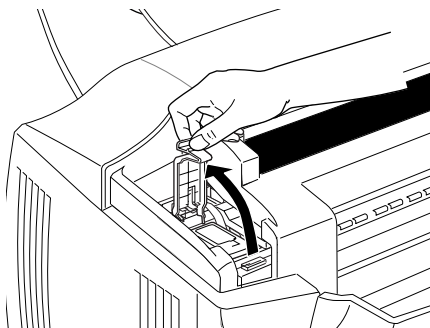
7. Press the  load/eject button and release it quickly. The print head moves to the replacement position for the black cartridge.



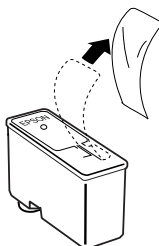
Note:

If you do not need to replace the black cartridge, press the  load/eject button and release it quickly. The print head returns to the home position, and ink charging begins.

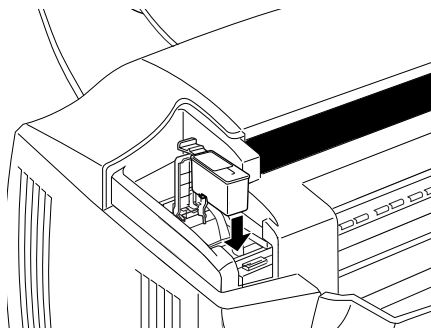
8. Lift the ink cartridge clamp. Then lift the cartridge out of the Stylus Scan and dispose of the ink cartridge properly.




9. Remove the yellow tape seal from the new cartridge.





10. Place the cartridge gently into the cartridge holder. Do not press down on the cartridge. Then press the ink cartridge clamp down until it locks in place.



11. Press the  load/eject button again and release it quickly. The Stylus Scan moves the print head back to its home position and charges ink in the system.



Caution:

The  power light continues to flash while the Stylus Scan performs the ink charging operation. Never turn off the Stylus Scan while the  power light is flashing. Doing so can result in incomplete charging of ink.

Chapter 11

Maintenance

Checking the Print Head Nozzles	11-2
Using the Nozzle Check utility	11-2
Using the control panel buttons	11-3
Cleaning the Print Head	11-5
Using the Head Cleaning utility	11-5
Using the control panel buttons	11-9
Aligning the Print Head	11-10
Calibrating Your System	11-11
Calibrating Your Screen	11-12
Cleaning the EPSON Stylus Scan	11-14
Transporting the EPSON Stylus Scan	11-15

Checking the Print Head Nozzles

If you find that printouts and copies are unexpectedly faint or that there are gaps (missing dots) in the printed image, you may be able to identify the problem by checking the print head nozzles.

You can check the print head nozzles from the Nozzle Check utility in your computer, or from the control panel. Both methods are described below.

Using the Nozzle Check utility


Note:

Do not start the Nozzle Check utility while printing is in progress, as doing so may spoil the printout.




For Windows users

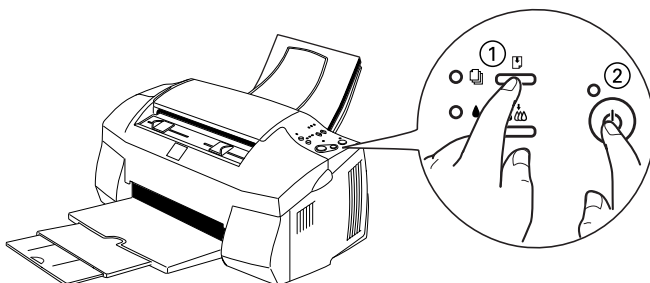
1. Make sure A4 or Letter size paper is loaded in the paper feeder.
2. Access the printer software. If you need instructions, see “Accessing the printer software” on page 4-2.
3. Click the **Utility** tab in the printer software, then click the **Nozzle Check** button.
4. Follow the on-screen instructions.

For Macintosh users

1. Make sure A4 or Letter size paper is loaded in the paper feeder.
2. Access the **Print** or **Page Setup** dialog box.
3. Click the  utility icon button in the **Print** or **Page Setup** dialog box, then click the **Nozzle Check** button.
4. Follow the on-screen instructions.

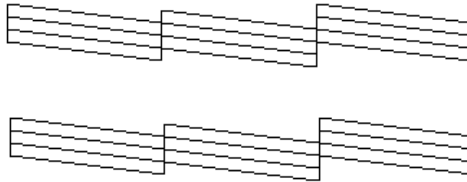
Using the control panel buttons

1. Make sure that A4 or Letter size paper is loaded in the paper feeder.
2. If the EPSON Stylus Scan is on, press the  power button once to turn it off.
3. Hold down the  load/eject button while pressing the  power button to turn on the Stylus Scan. Then release both buttons.

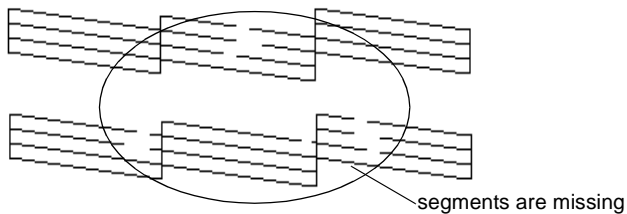


The Stylus Scan prints out its ROM version number and the ink counter codes, and then prints a nozzle check pattern. Here are sample printouts.

Good sample



Print head needs to be cleaned



The above sample is in black and white, but the actual test prints in color (CMYK).



If the quality is not satisfactory (for example, if a line segment is missing), you may need to clean or align the print head. For information on cleaning the print head, see the next section. For information on aligning the print head, see “Aligning the Print Head” on page 11-10.

Cleaning the Print Head

If you find that printouts and copies are unexpectedly faint or that there are gaps (missing dots) in the printed image, you may be able to solve the problem by cleaning the print head. Cleaning the print head ensures that nozzles are delivering the ink properly.



You can carry out cleaning either from the your computer or from the control panel. To run cleaning from your computer, use the Head Cleaning utility. Both methods are described below.

Note:



- ☐ *Print head cleaning uses both color and black ink. To avoid wasting ink, clean the print head only if print quality declines.*
- ☐ *Use the Nozzle Check utility to confirm that the print head needs to be cleaned. This saves ink.*
- ☐ *When the  black or  color ink out light is flashing or on, you cannot clean the print head. Replace the appropriate ink cartridge first.*
- ☐ *Do not start the Head Cleaning or Nozzle Check utility while printing is in progress; otherwise your printout may be marred.*

Using the Head Cleaning utility


For Windows users


1. Make sure that both  black and  color ink out lights are off.

Note:

If the  black or  color ink out light is flashing, you can not clean the print head. Replace the appropriate ink cartridge first.


2. Access the printer software window. If you need instructions, see “Accessing the printer software” on page 4-2.

3. Click the **Utility** tab in the printer window, then click the  cleaning button and release it quickly.
4. Follow the on-screen instructions.

The  power light flashes while the EPSON Stylus Scan performs the cleaning cycle. The cycle takes about one minute to complete.

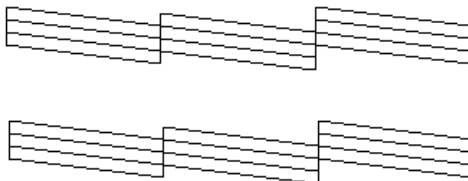


Caution:

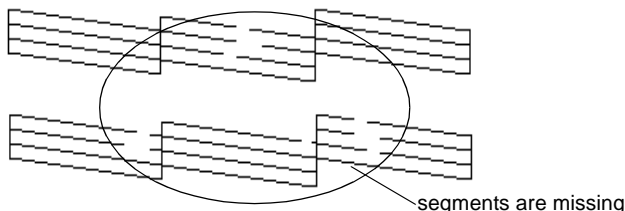
Never turn off the EPSON Stylus Scan while the  power light is flashing. Doing so may damage the Stylus Scan.

5. When the  power light stops flashing, click **Print nozzle check pattern** in the **Head Cleaning** dialog box to confirm that the head is clean and to reset the cleaning cycle. Here are sample printouts:

Good sample



Print head needs to be cleaned



The above sample is in black and white, but the actual test prints in color (CMYK)

If you find that any segments are missing from the test lines in the check pattern, you may need to repeat the head cleaning and print the check pattern again.

If quality does not improve after repeating this procedure four or five times, turn the Stylus Scan off and leave it off overnight. Then try the head cleaning again.




If the print quality still does not improve, one or both of your ink cartridges may be old or damaged and may need to be replaced. To replace an ink cartridge before it is empty, see "Replacing an Old or Damaged Ink Cartridge" on page 10-11.


If print quality remains a problem after replacing the ink cartridges, contact your dealer.

Note:

To maintain print quality, EPSON recommends turning on the EPSON Stylus Scan for at least one minute every month.


For Macintosh users


1. Make sure that the EPSON Stylus Scan is on, and the  black and  color ink out lights are off.
2. Click the  utility icon button in the **Print** or **Page Setup** dialog box, then click the **Head Cleaning** button.
3. Follow the on-screen instructions.

The  power light flashes while the Stylus Scan performs the cleaning cycle. The cycle takes about one minute to complete.



Caution:

Never turn off the Stylus Scan while the  power light is flashing. Doing so may damage the Stylus Scan.

4. When the  power light stops flashing, click the **Confirmation** button in the **Head Cleaning** dialog box to print a nozzle check pattern and to reset the cleaning cycle. Use the check pattern to confirm that the head is clean.

If print quality has not improved after repeating this procedure four or five times, turn the Stylus Scan off and leave it off overnight. Then try the head cleaning again.





If the print quality still has not improved, one or both of your ink cartridges may be old or damaged and may need to be replaced. To replace an ink cartridge before it is empty, see “Replacing an Old or Damaged Ink Cartridge” on page 10-11.

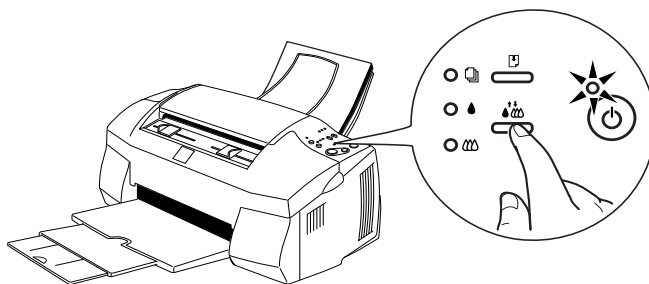
If print quality remains a problem after replacing the ink cartridges, contact your dealer.


Note:

To maintain print quality, EPSON recommends turning on the Stylus Scan for at least one minute every month.


Using the control panel buttons

1. Make sure that the  power light is on and that both the  black and  color ink out lights are off.
2. Hold down the  cleaning button for three seconds, then release it.








The EPSON Stylus Scan starts cleaning the print head and the  power light begins flashing. Print head cleaning takes about one minute to complete.

**Caution:**

Never turn off the Stylus Scan while the  power light is flashing. Doing so may damage the mechanism.

Note:

If the  black or  color ink out light is flashing or on, pressing the  cleaning button starts the ink cartridge replacement procedure. If you do not want to replace an ink cartridge at this moment, press the  cleaning button again and release it quickly to return the print head to its home position.

3. When the  power light stops flashing, print a few lines from a document to confirm that the head is clean and to reset the cleaning cycle.

If print quality has not improved after repeating this procedure four or five times, turn the Stylus Scan off and leave it off overnight. Then try cleaning the head again.

If the print quality still has not improved, one or both of your ink cartridges may be old or damaged and may need to be replaced. To replace an ink cartridge before it is empty, see “Replacing an Old or Damaged Ink Cartridge” on page 10-11.

If print quality remains a problem after replacing the ink cartridges, contact your dealer.

Note:

To maintain print quality, EPSON recommends turning on the Stylus Scan for at least one minute every month.

Aligning the Print Head

If you notice a misalignment of vertical lines, you may be able to solve this problem from your computer using the Print Head Alignment utility.

Note:


Do not start the Print Head Alignment utility while printing is in progress; otherwise your printout may be marred.

For Windows users

1. Make sure A4 or Letter size plain paper is loaded in the paper feeder.
2. Access the printer software window. If you need instructions, see “Accessing the printer software” on page 4-2.

3. Click the **Utility** tab in the printer window, then click the **Print Head Alignment** button.
4. Follow the messages on your screen to align the print head.

For Macintosh users

1. Make sure A4 or Letter size plain paper is loaded in the paper feeder.
2. Access the **Print** or **Page Setup** dialog box.
3. Click the  Utility icon button in the **Print** or **Page Setup** dialog box, then click the **Print Head Alignment** button.
4. Follow the messages on your screen to align the print head.

Calibrating Your System

When you install EPSON Stylus Scan Software, the EPSON Screen Calibration utility is automatically installed.

This utility calibrates your monitor to ensure the tone and contrast on your screen closely match the original image. Be sure to calibrate your screen before using your scanner.

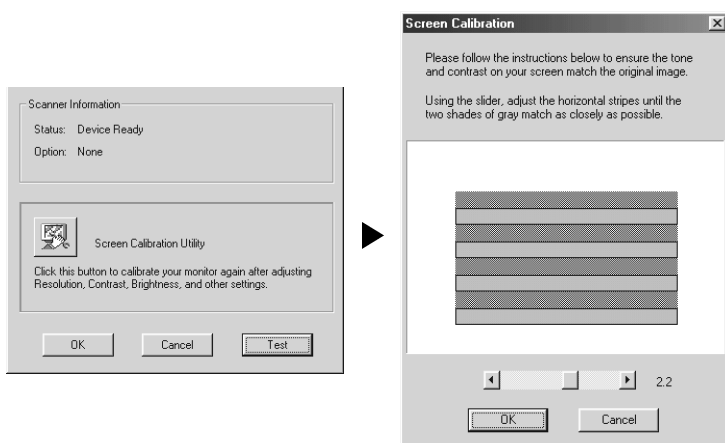
Calibrating Your Screen

You need to calibrate your screen when you first install the scanner software, and anytime you switch to a different monitor.

Follow these steps.

For Windows Users

1. Double-click the **EPSON Stylus Scan SF TWAIN Setup** icon in the Control Panel. The **EPSON Stylus Scan SF TWAIN** dialog box appears.
2. Click the **Screen Calibration Utility** button. The **Screen Calibration** dialog box appears.



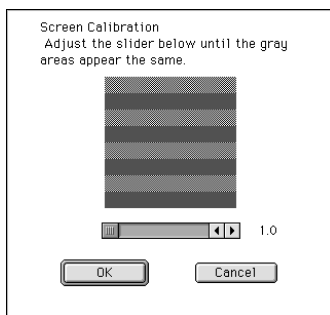
3. Move the slider to the right or left until the two shades of the gray horizontal stripes match.
4. Click **OK** to finish calibrating your scanner and monitor.

The gray stripes will not perfectly blend together; however, try to make the different tones match as closely as possible.

The screen profile contains calibration information for the previewed image as well as the scanned image.

For Macintosh Users

1. Click the **EPSON Screen Calibration** icon in the **EPSON Scanner** dialog box. The following dialog box appears.



2. Move the slider to the right or left until the two shades of the gray horizontal stripes match.
3. Click **OK** to finish calibrating your scanner and monitor.

The gray stripes will not perfectly blend together; however, try to make the different tones match as closely as possible.

The screen profile contains calibration information for the previewed image as well as the scanned image.

Cleaning the EPSON Stylus Scan

To keep your Stylus Scan operating at its best, clean it thoroughly several times a year.

1. Make sure the Stylus Scan is turned off and all of its lights are off. Then unplug the power cord.
2. Remove all paper from the paper feeder.
3. Use a soft brush to carefully clean away all dust and dirt.
4. If the outer case or the inside of the paper feeder is dirty, clean it with a soft, clean cloth dampened with mild detergent. Keep the front cover and the top/front cover closed to prevent water from getting inside.
5. If the inside of the Stylus Scan accidentally gets soiled with ink, wipe the ink away with a damp cloth.



Caution:

- ☐ *Never use alcohols or thinners to clean the Stylus Scan; these chemicals can damage the components as well as the case.*
- ☐ *Be careful to keep water away from the printing and scanning mechanisms and electronic components.*
- ☐ *Do not use a hard or abrasive brush.*
- ☐ *Do not spray the inside of the Stylus Scan with lubricants; unsuitable oils can damage the mechanisms. Contact your dealer or a qualified service person if lubrication is needed.*

Transporting the EPSON Stylus Scan

If you need to transport your EPSON Stylus Scan, carefully repack it using the original box and packing materials as follows.

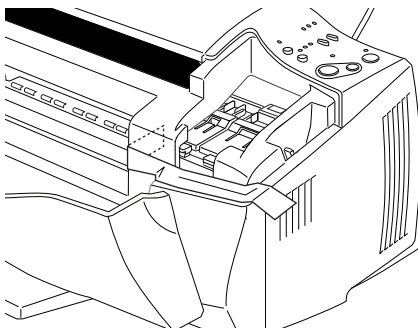
1. Open the front cover and make sure that the print head is in the home (far right) position. If it isn't, turn on the Stylus Scan and wait until the print head returns to the home position. Then turn off the Stylus Scan and close the front cover.



Caution:

Leave the ink cartridges installed during transport. Removing the cartridges for transport may damage the Stylus Scan and the cartridges will become unusable.

2. Make sure that the top/front cover is closed.
3. Unplug the power cord from the electrical outlet; then disconnect the interface cable.
4. Remove all paper from the paper feeder, and then remove the paper supports.
5. Push in the output extension tray, and then raise the output tray.
6. Open the front cover again. Secure the ink cartridge holder to the body of the Stylus Scan with tape as shown below. Then close the cover.



7. Attach the protective materials to both sides of the Stylus Scan.
8. Repack the Stylus Scan and power cord in the original box.
9. Keep the Stylus Scan level during transport.

Chapter 12

Troubleshooting

Diagnosing the Problem	12-2
Error indicators	12-3
Status Monitor 3	12-5
Running a printer operation check	12-5
Printing and Copying Problems	12-8
Print and copy quality could be better	12-8
The Stylus Scan does not print or copy	12-12
Paper does not feed correctly	12-15
Printout is not what you expected	12-17
Scanning Problems	12-20
Troubleshooting scanning problems	12-20
Something is missing or incorrect in the scanned image ...	12-21
The placement of text and graphics on the page is incorrect	12-22
Scanned quality is poor	12-22
Paper does not properly feed into or eject from the Stylus Scan	12-23
Improving scan speed	12-24
Troubleshooting the Parallel Port (Windows 98/95)	12-24
Printing or scanning speed is slow	12-24
A communication error occurs during printing or scanning	12-25
USB (Windows 98) Installation Problems	12-26
USB Printer Device Driver or Stylus Scan Driver (Printer) Problems	12-26
Stylus Scan driver (scanner) problems	12-29
Where to Get Help	12-34









Diagnosing the Problem








Troubleshooting is best handled in two easy steps; first diagnose the problem, then apply likely solutions until the problem is fixed. You can find the information that you need to diagnose most common problems directly from the control panel lights and from the Status Monitor utility.


Use the information presented in this chapter to pinpoint the source of your problem, then apply the recommended solutions until the problem is solved.

Error indicators

You can identify many common problems by looking at the lights on the control panel. If the EPSON Stylus Scan stops working and the lights are on or flashing, use the following table to diagnose and solve the problem.

Light s	Problem and Solution	
	Paper Out	
	No paper is loaded in the paper feeder.	Load paper into the paper feeder. Then press the  load/eject button to turn this light off. The Stylus Scan resumes printing or copying.
  	Paper Jam (printing area)	
	Paper is jammed in the printing area.	Press the  load/eject button. The Stylus Scan should eject the jammed paper and resume printing. If the error condition does not clear, open the front cover and remove the jammed paper. Check that paper is loaded in the paper feeder, and then press the  load/eject button to resume printing or copying.
	Document Jam (copying area)	
	Original document is jammed in the scan/copy area.	Turn off the Stylus Scan and close any open applications. Open the Stylus Scan's top cover and remove the jammed document. Then close the top cover and turn on the Stylus Scan.

	Ink Low (black ink cartridge)	
	The black ink cartridge is nearly empty.	Have a new black ink cartridge handy.
	Ink Out (black ink cartridge)	
	The black ink cartridge is empty.	Replace the black ink cartridge with a new one. See “Replacing Empty Ink Cartridges” on page 10-2 for details.
	Ink Low (color ink cartridge)	
	The color ink cartridge is nearly empty.	Have a new color ink cartridge handy.
	Ink Out (color ink cartridge)	
	The color ink cartridge is empty.	Replace the color ink cartridge with a new one. See “Replacing Empty Ink Cartridges” on page 10-2 for details.
	Carriage Error	
	The print head carriage is caught by jammed paper or other foreign material and cannot return to the home position.	Press the  power button to turn off the power. Open the front cover and remove any paper from the paper path by hand. Then turn the power back on. If the error does not clear, contact your dealer.
	Unknown Printer Error	
	An unknown printer error has occurred.	Turn off the EPSON Stylus Scan and contact your dealer.

■ = on, □ = off,  = flashing

Status Monitor 3

The Status Monitor 3 utility's Printer Status window provides status messages and a graphic display showing the current state of the printer.

If a problem occurs while printing, an error message appears in the Progress Meter window.

When ink is out, click the **How To** button in the Printer Status window. The Status Monitor leads you step-by-step through the cartridge replacement procedure.

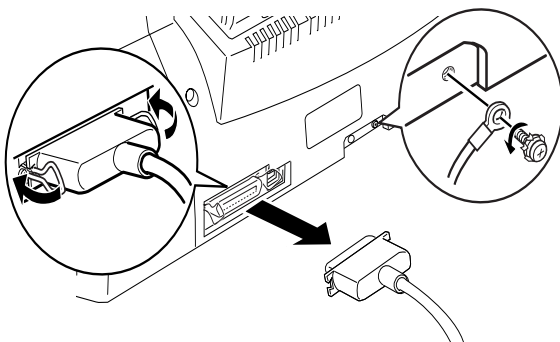
Running a printer operation check



Performing a printing check can help you determine whether the problem comes from the EPSON Stylus Scan or your computer.

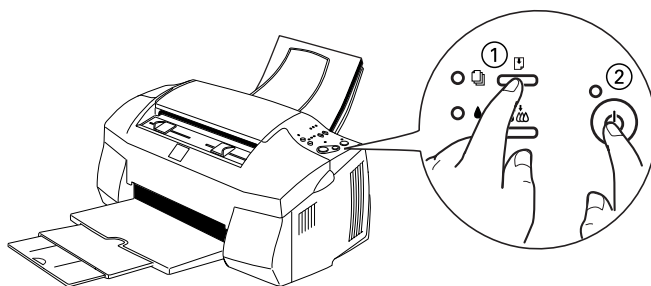
To print an operation check page, follow these steps.

1. Make sure both the Stylus Scan and the computer are turned off.
2. Disconnect the cable from the Stylus Scan's interface connector.

If the EPSON Stylus Scan is connected by parallel interface (available on Windows machines only): First unlock the wire clips on both sides of the interface connector. Also remove the ground connector, if necessary. Then disconnect the cable from the Stylus Scan's interface connector.

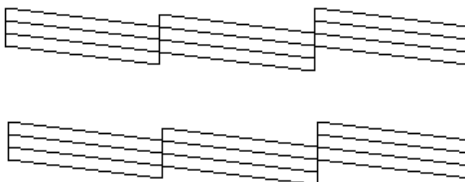


3. Make sure that A4 or Letter size paper is loaded in the paper feeder.
4. Hold down the  load/eject button and press the  power button to turn on the Stylus Scan. Then release both buttons.



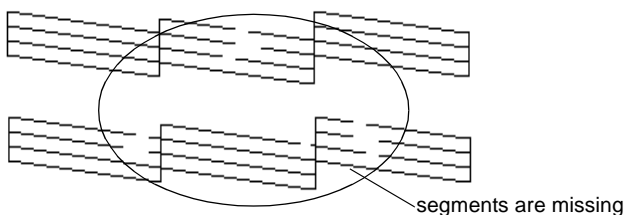
The Stylus Scan prints an operation check page that include the Stylus Scan's ROM version number, the ink counter code, and a nozzle check pattern.

- ❑ Compare the quality of the printed check page with the sample shown below. If there are no print quality problems, such as gaps or missing segments in the test lines, the EPSON Stylus Scan itself is all right and the problem probably lies in the software settings, application settings, the interface cable (be sure to use a shielded cable), or the computer.



The above sample is in black and white, but the actual check page prints in color (CMYK).

- ❑ If the check page does not print satisfactorily as shown below, there is a problem with the EPSON Stylus Scan. For example, if any segment of the printed lines is missing, this could be a clogged ink nozzle or a misaligned print head.



The above sample is in black and white, but the actual check pattern prints in color.



Printing and Copying Problems

Print and copy quality could be better

If you are having print quality problems, try the solutions offered in this section.

Horizontal banding text

Try one or more of these solutions.

- ☐ Make sure the printable side of the paper is face up in the paper feeder.
- ☐ Run the Head Cleaning utility to clear any clogged ink nozzles.
- ☐ If the problem affects printing but not copying, select the **Automatic** mode in your printer driver.
- ☐ Check the  black and  color ink out lights. If a light is flashing, replace the appropriate ink cartridge. See “Replacing Empty Ink Cartridges” on page 10-2.
- ☐ Make sure the **Maximum Printable Area** setting in your printer driver is turned off. When this setting is on, banding may occur in the expanded area.

Vertical misalignment text



Try one or more of these solutions.

- ☐ Make sure the printable side of the paper is face up in the paper feeder.
- ☐ Run the Print Head Alignment utility.
- ☐ Turn off the **High Speed** setting in your printer driver. For instructions.

- ☐ Run the Head Cleaning utility to clear any clogged ink nozzles.

Horizontal banding

Try one or more of these solutions.

- ☐ Make sure the printable side of the paper is face up in the paper feeder.
- ☐ Run the Head Cleaning utility to clear any clogged ink nozzles.
- ☐ Select the **Automatic** mode in your printer driver's **Main** menu (Windows) or **Print** dialog box (Macintosh).
- ☐ Check the  black and  color ink out lights. If a light is flashing, replace the appropriate ink cartridge. See "Replacing Empty Ink Cartridges" on page 10-2.
- ☐ Make sure the **Maximum Printable Area** setting in your printer driver is turned off. When this setting is on, banding may occur in the expanded area.

Vertical misalignment or banding

Try one or more of these solutions.

- ☐ Make sure the printable side of the paper is face up in the paper feeder.
- ☐ Run the Print Head Alignment utility.
- ☐ Turn off the **High Speed** setting in your printer driver.
- ☐ Run the Head Cleaning utility to clear any clogged ink nozzles.



Incorrect or missing colors

Try one or more of these solutions.

- ☐ Change the ink setting in your printer driver to **Color**. For instructions, see “Using the Automatic setting” on page 4-7 for Windows or “Using the Automatic settings” on page 6-6 for Macintosh.
- ☐ Adjust the color settings in your application software or your printer driver. For instructions, see “Using the Custom settings” on page 4-9 for Windows or “Using the Advanced settings” on page 6-8 for Macintosh.
- ☐ Run the Head Cleaning utility. If colors are still incorrect or missing after cleaning is finished, replace the color ink cartridge. If the problem persists, replace the black ink cartridge. See “Replacing an Old or Damaged Ink Cartridge” on page 10-11.

Faint printout or gaps

Try one or more of these solutions.

- ☐ Make sure your paper is not damaged, dirty, or old. Also, make sure the printable side of the paper is face up in the paper feeder.
- ☐ Run the Head Cleaning utility to clear any clogged ink nozzles.
- ☐ Check the  black and  color ink out lights. If a light is flashing, replace the appropriate ink cartridge. See “Replacing Empty Ink Cartridges” on page 10-2.
- ☐ Adjust the color settings in your application software or your printer driver.
- ☐ Select the **Automatic** mode in your printer driver.

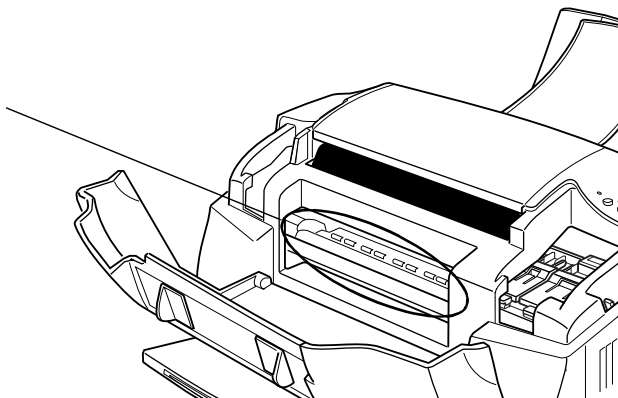
Blurry or smeared printout

Try one or more of these solutions.

- ☐ Make sure your paper is dry and the printable side is face up. Also, make sure you are using the correct paper type. See “Paper” on page B-2 for specifications.
- ☐ Select the **Automatic** mode in your printer driver’s **Main** menu (Windows) or **Print** dialog box (Macintosh).
- ☐ Set the adjust lever to the “+” position, and make sure the Media Type setting is set correctly in your printer driver.
- ☐ If the paper is curled toward the printable side, flatten it or curl it slightly toward the opposite side.
- ☐ Remove each sheet from the output tray as it is printed, especially if you are using transparencies.
- ☐ If you are printing on glossy media or transparencies, place a support sheet (or a sheet of plain paper) beneath the stack. Or load one sheet at a time.
- ☐ Run the Head Cleaning utility.
- ☐ Run the Print Head Alignment utility.



- ❑ Ink may have leaked inside the EPSON Stylus Scan. Wipe the inside of the Stylus Scan with a soft, clean cloth.

Wipe here.




The Stylus Scan does not print or copy

If one of the following problems has occurred, try the solutions listed for that problem.

- ❑ All lights are off
- ❑ Lights came on and then went out
- ❑ Only the  power light is on
- ❑ The  paper out light is flashing or on.
- ❑ One of the ink out lights is flashing or on.
- ❑ All lights are flashing.

All lights are off

- ❑ Press the  power button and make sure the EPSON Stylus Scan is on.
- ❑ Turn off the Stylus Scan and make sure the power cord is securely plugged in.

- ❑ Make sure your outlet works and is not controlled by a wall switch or timer.

Lights came on and then went out

The voltage required by the Stylus Scan may not match the voltage rating of your outlet. Immediately turn off the Stylus Scan and unplug it. Then check the label on the Stylus Scan to determine the required voltage.

If the required voltage doesn't match your outlet rating, **DO NOT PLUG THE EPSON STYLUS SCAN BACK IN.** Contact your dealer.

Only the operate light is on

Try one or more of these solutions.

- ❑ Turn off the Stylus Scan and the computer. Make sure the interface cable is securely plugged in at both ends.
- ❑ Make sure there is no packing material inside the Stylus Scan.
- ❑ Turn off the Stylus Scan and the computer, and then disconnect the interface cable. Then print an operation check page. See "Running a printer operation check" on page 12-5.
- ❑ If the check page prints, make sure the Stylus Scan software and your application software are installed correctly.

Note:

If you are trying to print a large image, your computer may not have enough memory to print.





- ❑ Clear any stalled print jobs from the Spool Manager.
- ❑ If the Stylus Scan sounds like it is trying to print, but cannot, run the Head Cleaning utility.

- ❑ If the above does not work, replace the ink cartridges. See “Replacing a black ink cartridge” on page 10-7 and “Replacing a color ink cartridge” on page 10-3 for instructions.

Paper out lights are flashing or on

- ❑ If the paper out light is flashing, remove any paper that may be jammed in the Stylus Scan.
- ❑ If the paper out light is on, load more paper into the paper feeder.

One of the ink out lights is flashing or on

- ❑ If the  black or  color ink out light is flashing, ink is low. Prepare a replacement cartridge.
- ❑ If the  black or  color ink out light is on, ink is out. Replace the corresponding cartridge. See “Replacing Empty Ink Cartridges” on page 10-2.

All lights are flashing

Follow these steps.

1. Remove all paper from the Stylus Scan.
2. Turn the Stylus Scan off. Check for and remove any foreign objects or pieces of paper from inside the device. Also, make sure that there is sufficient space around the rear vent to allow for proper ventilation. Remove any objects blocking the vent, then turn the power back on.
3. If the error does not clear, contact your dealer.

Paper does not feed correctly

If one of the following problems has occurred, try the solutions listed for that problem.

- ☐ Paper does not feed at all
- ☐ Multiple pages feed
- ☐ The paper jams
- ☐ Paper is not ejected fully or is wrinkled

Paper does not feed at all

Check that the loaded paper stack does not extend above the arrow mark on the left edge guide.

Remove the stack of paper and check that:

- ☐ The paper is not curled or creased.
- ☐ The paper is not too old. See the instructions that came with the paper for more information.
- ☐ The loaded paper stack does not extend above the arrow mark on the left edge guide.
- ☐ The paper is not jammed inside. If it is, remove the jammed paper.

Then load paper again. Make sure you follow any special loading instructions that came with your paper. See also “Loading Special Paper and Other Media” on page 3-3.


Multiple pages feed

Remove the stack of paper and:

- ☐ Make sure the paper is not too thin. See “Paper” on page B-2 for specifications.
- ☐ Fan the edges of the stack to separate the sheets, then reload the paper.

If too many copies of a document are printing, check the **Copies** settings in both the printer driver and your application. For instructions, see “Modifying the printout style” on page 4-13 for Windows or “Modifying the layout” on page 6-14 for Macintosh.

The paper jams


Press the  load/eject button to eject the jammed paper. If the error message does not clear, turn the Stylus Scan off and remove all the paper from the paper feeder. Then open the front cover and remove all the paper inside, including any torn pieces. Then turn on the Stylus Scan, and load paper again.

If your paper jams frequently, make sure you:

- ☐ Use smooth, high-quality paper, loaded with the printable side up.
- ☐ Fan the stack before loading it.
- ☐ Do not load paper above the arrow mark on the left edge guide.
- ☐ Adjust the left edge guide to fit your paper.

Paper is not ejected fully or is wrinkled

Try one or more of these solutions.

- ☐ If the paper does not eject fully, press the  load/eject button. Also, check the paper size setting in your application or printer driver.
- ☐ If the paper is wrinkled when it comes out, it may be damp or too thin. Load a new stack.

Note:

Store any unused paper in its original packaging in a dry area. See “Paper” on page B-2 for specifications.

- ☐ Select the **Automatic** mode in your printer driver’s **Main** menu (Windows) or **Print** dialog box (Macintosh).

Printout is not what you expected

If one of the following problems has occurred, try the solutions listed for the problem.

- ☐ Characters are incorrect or garbled
- ☐ Margins are incorrect
- ☐ Image is inverted
- ☐ Blank pages print
- ☐ Bottom edge of printout is smeared
- ☐ Printing is too slow

Characters are incorrect or garbled

Try one or more of these solutions.

- ☐ If you are using Windows, select the EPSON Stylus Scan as the default Windows printer.
- ☐ Clear any stalled print jobs from the Spool Manager. For instructions, see “Using the EPSON Spool Manager” on page 5-4.
- ☐ Turn off the Stylus Scan and the computer. Make sure the Stylus Scan’s interface cable is securely plugged in.

Margins are incorrect

Try one or more of these solutions.

- ☐ Check the margin settings in your application software.
- ☐ Make sure the margins are within the printable area of the page. See “Paper” on page B-2 for specifications.
- ☐ In Windows, check the settings in the **Paper** menu. Make sure the settings are correct for the paper size you are using.

When using a Macintosh, check the settings in the **Page Setup** dialog box. Make sure the settings are correct for the paper size you are using.

Image is inverted

Clear the **Flip Horizontal** check box in the printer driver, or turn off the mirror setting in your application. For instructions, see online help for the printer driver or for your application.

For Macintosh, see also “Using the Advanced settings” on page 6-8.

Blank pages print

Try one or more of these solutions.

- ☐ If you are using Windows, select the EPSON Stylus Scan as the default Windows printer.
- ☐ If you are using Windows, check the settings in the **Paper** dialog box. Make sure they match the paper size you are using.
- ☐ If you are using Macintosh, check the settings in the **Page Setup** dialog box. Make sure they match the paper size you are using.
- ☐ Run the Head Cleaning utility to clear any clogged nozzles.

After trying one or more of these solutions, run a printing operation check to see whether the problem has been solved. See “Running a printer operation check” on page 12-5.

Printing is too slow

Try one or more of these solutions.

- ☐ Make sure the Media Type setting is set correctly in your printer driver. For instructions, see “Making the Media Type setting” on page 4-5 for Windows, or “Making the Media Type settings” on page 6-4 for Macintosh.
- ☐ To increase speed, in the printer driver’s **Main** menu select **Automatic**, then set the slide bar to the **Speed** setting. For instructions, see “Using the Automatic setting” on page 4-7 for Windows or “Using the Automatic settings” on page 6-6 for Macintosh.
- ☐ Do not run too many applications at the same time. Close any applications you are not using at the moment.
- ☐ Delete unnecessary files to make room on your hard disk drive.

Note:

Your computer may not have enough memory. For further tips, See “Increasing the Print Speed” on page 4-27.

- ❑ If you upgraded from Windows 95 to Windows 98, uninstall the EPSON Stylus Scan software using Add/Remove Programs in Windows, then install the software again.

Scanning Problems

Troubleshooting scanning problems

Scanning does not begin

Nothing happens when I try to scan

You are scanning several pages or documents

Wait until the Stylus Scan completes the current scan before starting a new scan.

The Stylus Scan is busy

Some documents take a long time to scan, especially when the scan is optimized for photos.

Document has jammed

Turn off the Stylus Scan, and close any open applications on your computer. Remove all jammed documents from the Stylus Scan, then turn the Stylus Scan back on.

The scanned image is blank

Be sure to place the image you want to scan face down in the document loading tray.

Something is missing or incorrect in the scanned image

Text is missing or is incorrectly recognized

Try adjusting scan threshold in the **Line/Art** dialog box. To adjust the scan threshold, click the **OCR/Line Art** tab in the **EPSON Stylus Scan SF TWAIN setup** dialog box and click the **threshold** radio button. Move the slider to the right or left to adjust the scan threshold.

Dotted lines (no text) on scanned document

If you are scanning a document with a lot of graphics or artwork, text may not be recognized properly by the OCR software. The result may be that when you open the scanned image on your word processing application, you will see that not all of the characters in the image have been converted to text.

The image is getting cropped incorrectly

Using a protection sheet

If the protection sheet is dirty, or has been used a lot, you may need to use a different sheet. If the photo or document is very thick, the Stylus Scan may have trouble recognizing the borders.

Check your Image Type setting

Select the **Quality & De-screening** setting in the **Image Type** dialog box.

The image is crooked

Check your Image Type setting

Select the **Quality & De-screening** setting in the **Image Type** dialog box.

A corner of the image is missing

Using a protection sheet

Try using a protection sheet. If you are already using a protection sheet, make sure your photo or document is as straight as possible in the protection sheet and that the sheet is loaded straight in the document feeder.

The placement of text and graphics on the page is incorrect

Scanned images come out slanted

The paper guides are not adjusted correctly

Verify that the guides in the document tray fit snugly against the document you are scanning.

Scanned quality is poor

Scanned images look faded when I try to print them

If you are scanning a photograph, make sure you have selected **Photo** in the **EPSON SMART PANEL** dialog box.

Check the Quality and Resolution Settings in EPSON TWAIN.

Scanned or copied photographs look too dark or have no detail

If you are scanning a photograph, make sure you have selected **Photo** in the **EPSON SMART PANEL** dialog box.

Vertical lines are missing from the scanned image or copy

The scanner glass may need cleaning

Correcting fluid, dust particles, paper, or tape may be stuck to the scanner glass, causing a vertical white streak through the image. To clean the scanner glass, see “Cleaning the EPSON Stylus Scan” on page 11-14.

Using a protection sheet

If the protection sheet is dirty, or has been overused, you may need to use a different sheet.

Your original document may need editing

If lines are too thin on your original document, they may disappear in places when you scan it in the Stylus Scan. If you can, try thickening those lines on your original.

Your original document is wrinkled

If your original is heavier than 90 g/m² (24 lb) and is wrinkled, some lines could be missed during scanning. Try flattening the original document and scan it again.

My scanned image is of much poorer quality than the original**The Scan Settings in the EPSON SMART PANEL dialog box match the document you are scanning**

To ensure the best result when scanning your document, set the Scan mode properly.

Paper does not properly feed into or eject from the Stylus Scan***A document is stuck in the Stylus Scan's document feeder*****Note:**

These procedures do not apply to paper jammed in the Stylus Scan's paper feeder. The paper feeder is not used when scanning.

Preventing document jams

Make sure the Stylus Scan is placed far enough from walls and equipment so that the document support is seated properly and not pushed forward. Also make sure that there are no sheets in the document support. Check that the document support is installed correctly and that paper is flowing freely from it.

Clearing a document jam

Turn off your Stylus Scan. Open the top cover and remove the jammed paper. If any applications are still running, turn them off before turning off the Stylus Scan.

Improving scan speed

The best way to improve the speed of your scans is to make sure ECP mode is enabled on your system. This is a system-level setting, so if you want to change it, contact the manufacturer of your computer.

Always use the lowest Resolution (dpi setting) possible that will still give good image quality. A higher dpi setting may not always increase the quality of a scan, but significantly slows down your computer and requires more disk space to save the image.

Troubleshooting the Parallel Port (Windows 98/95)

Printing or scanning speed is slow

Make sure the ECP mode is turned on in your computer's BIOS. For details, see your computer's documentation.

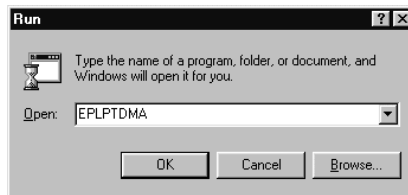
If the ECP mode is enabled in BIOS and printing and scanning are still slow, the ECP hardware (a component inside your computer which processes the ECP protocol) is malfunctioning. When the Stylus Scan's ECP port driver senses a problem in the ECP hardware, the driver switches to software processing of the ECP protocol to protect your data. Software processing is secure, but much slower than hardware processing.

A communication error occurs during printing or scanning

Make sure the ECP mode is turned on in your computer's BIOS. For details, see your computer's documentation.

If the errors continue to occur, follow the steps below:

1. Click **Start**, then **Run**.
2. Type **EPLPTDMA** in the **Open** box, then click **OK**.



3. The following dialog box appears. Clear the check box that appears beside the name of the port to which you have connected the Stylus Scan, then click **OK**.



Note:

Unavailable ports appear dimmed.

4. Restart Windows.

USB (Windows 98) Installation Problems

If the Stylus Scan Driver was not properly installed, uninstall the Stylus Scan Driver in the manner described in the Setup Guide, then reinstall it.

If, after doing the above, the Stylus Scan does not work correctly, check the following:

USB Printer Device Driver or Stylus Scan Driver (Printer) Problems

Make sure your computer had Windows 98 pre-installed

Your computer must have Windows 98 pre-installed. The printer driver may not function properly on a computer that has been upgraded from Windows 95 to 98.

For details about your computer, contact your dealer.

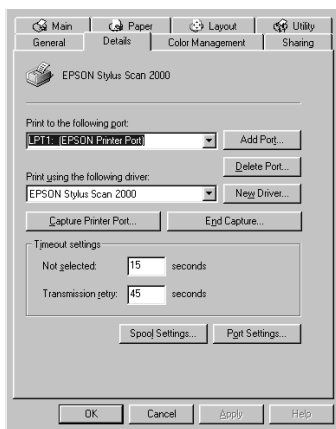
Check that the USB driver was installed correctly

Use the following procedure to confirm that the USB driver was installed correctly.

1. Click the **Start** button, point to Settings and click the **Printers** folder. Make sure that the icon for the printer appears in the Printers folder.
2. Click the printer icon, and select **Properties** from the **File** menu.



3. Click the **Details** tab and make sure that EPUSBx: (EPSON Stylus Scan 2000) is displayed in the **Print to the following port list box**



4. If the correct port is not displayed, remove the USB cable, then connect the Stylus Scan to the first tier of the hub, or connect the Stylus Scan to the computer's USB port directly.

Make sure that EPSON USB Printer Devices appears in the Device Manager menu

If you canceled the plug-and-play driver installation before the procedure completed, either the USB printer device driver or the printer driver may be incorrectly installed.

Follow the steps below to check the installation and reinstall the drivers.

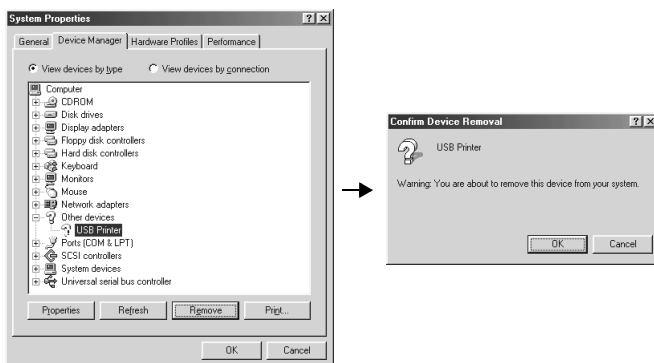
1. Turn the Stylus Scan on. Plug the USB cable into the Stylus Scan and the computer.
2. Right-click the My Computer icon on your desktop, then click **Properties**.
3. Click the **Device Manager** tab.

If your drivers are correctly installed, EPSON USB Printer Devices should appear in the Device Manager menu.

If **EPSON USB Printer Devices** does not appear in the Device Manager menu, click the plus (+) sign beside Other Devices to view the installed devices. If **USB Printer** appears under Other Devices, the USB printer device driver is not installed correctly. If **EPSON Stylus Scan 2000** appears under Other Devices, the printer driver is not installed correctly.

If neither USB Printer nor EPSON Stylus Scan 2000 appears under Other Devices, click **Refresh** or unplug the USB cable from the Stylus Scan, then plug it into the Stylus Scan again.

4. Under Other Devices, click **USB Printer** or **EPSON Stylus Scan 2000**, then click **Remove** and **OK**.



5. Click **OK** to close the System Properties window.
6. Unplug the USB cable from the Stylus Scan, then plug it into the Stylus Scan again.

7. The following dialog box appears. Install the driver again, following the instructions in the Setup Guide.



Stylus Scan driver (scanner) problems

Check if your Stylus Scan name appears under Imaging Device hardware type without a ? or ! mark in the Device Manager menu. To view this menu, right-click the My Computer icon on the Desktop. If your scanner appears with a ? or ! mark, or appears as an Unknown Devices hardware type, make sure your Stylus Scan is turned on and connected, then click **Remove** to remove it from the Device Manager menu.

Note:

If the EPSON Stylus Scan Disk is requested when reinstalling the driver, make sure the EPSON Stylus Scan 2000 Software for Windows CD is still in the CD-ROM drive and check that the correct drive letter, the EPSON folder, the folder of your preferred language, and the Win98 folder are specified.

Make sure that EPSON Stylus Scan 2000 appears in the Device Manager menu

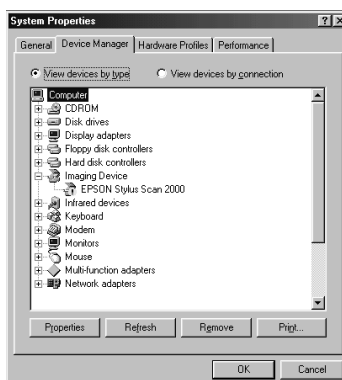
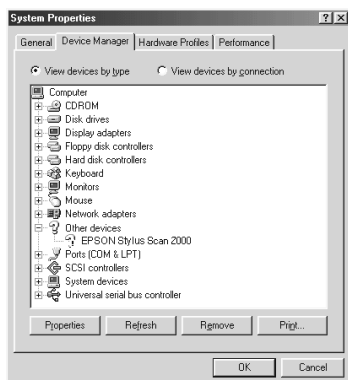
If you canceled the plug-and-play driver installation before the procedure was completed, EPSON Stylus Scan SF TWAIN may be incorrectly installed.

Follow the steps below to check the installation.

1. Turn the Stylus Scan on. Plug the USB cable into the Stylus Scan and the computer.
2. Right-click the **My computer** icon on your desktop, then click **Properties**.
3. Click the **Device Manager** tab.

If your EPSON Stylus Scan SF TWAIN is correctly installed, **EPSON Stylus Scan 2000** should appear under Imaging Device when you click the plus (+) sign next to Imaging Device.

If EPSON Stylus Scan 2000 appears under Other Devices with a ? mark or under Imaging Device with ! mark, the EPSON Stylus Scan SF TWAIN file is not installed correctly. Follow the instructions to reinstall the driver.

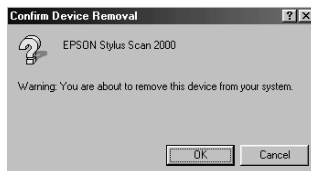
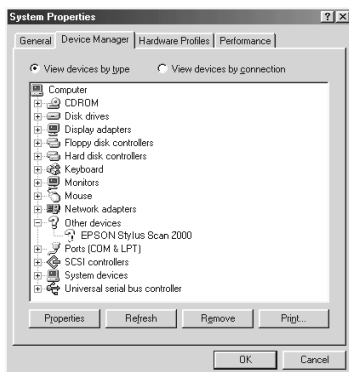


If EPSON Stylus Scan 2000 appears under Other Devices

Note:

Make sure the Stylus Scan is on and connect to your computer. If the Stylus Scan is off or not connected to your computer, you cannot reinstall the driver properly.

1. If ? EPSON Stylus Scan 2000 appears under Other Devices, click ? **EPSON Stylus Scan 2000**. Then click **Remove** and **OK**.



2. Click **Close** to close the System Properties window.
3. Make sure the Stylus Scan is on and restart your computer.
4. The following dialog box appears. To install the driver again, follow the instructions in the Setup Guide.

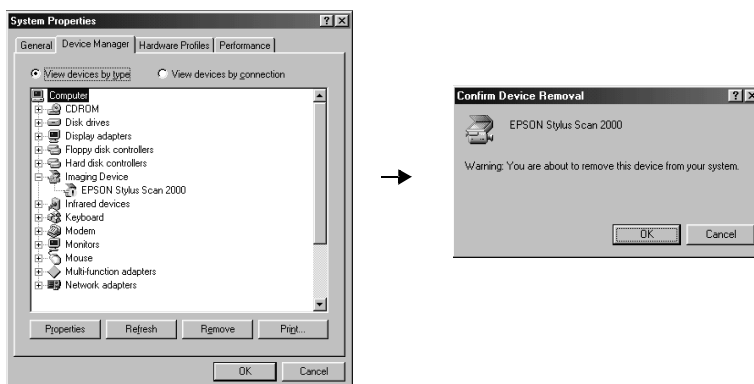


If EPSON Stylus Scan 2000 appears under Imaging Device

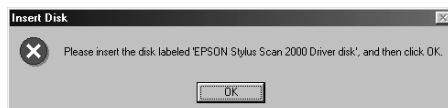
Note:

Make sure the Stylus Scan is on and connected to your computer. If the Stylus Scan is off or not connected to your computer, you cannot reinstall the driver properly.

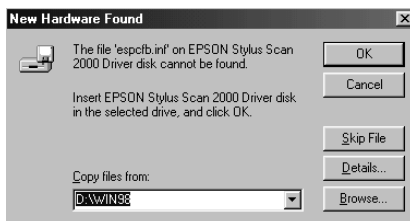
1. If ! EPSON Stylus Scan 2000 appears under Imaging Device, click ! **EPSON Stylus Scan 2000**. Then click **Remove** and **OK**.



2. Click **Close** to close the System Properties Window.
3. Make sure the Stylus Scan is on and restart your computer.
4. When the following dialog appears, insert the **EPSON Stylus Scan 2000 Software for Windows** CD-ROM in the CD-ROM drive, then click **OK**.



If the following dialog appears, click ▼, select your CD-ROM drive, then click **OK**.



5. The Screen Calibration window appears. Follow the instructions described in the Setup Guide.

Where to Get Help

If your EPSON Stylus Scan is not operating properly and you cannot solve the problem using the troubleshooting information provided in the EPSON Stylus Scan documentation, contact customer support services for assistance.

Customer support will be able to help you much more quickly if you give them the following information.

- ☐ Serial number of your EPSON Stylus Scan
(The serial number label is on the back of the EPSON Stylus Scan.)
- ☐ EPSON Stylus Scan model
- ☐ Brand and model of your computer
- ☐ EPSON Stylus Scan software version
(Click **About** in your printer driver.)
- ☐ The Windows version you are using
- ☐ Software application(s) you normally use with your EPSON Stylus Scan, and their version number(s)

Chapter 13

Options and Consumable Products

Options13-2

Consumable products13-2

Options

The following interface cables and interface cards are available for your EPSON Stylus Scan.

Interface cables

You can use any interface cable that meets the following specifications. See your computer manual for any additional requirements.

- ❑ Parallel Interface Cable (shielded) from D-SUB 25-pin (computer) to 36-pin Amphenol 57 Series (printer)
- ❑ USB Interface Cable (shielded) from Series A 4-pin (computer) to Series B 4-pin (printer)
(This cable is not supplied in all locations.)



Caution:

Use only interface cables which meet the specifications listed above. Using other cables not covered by EPSON warranties may cause the printer to malfunction.

Consumable products

The following ink cartridges and EPSON special media are available for your EPSON Stylus Scan.

Ink cartridges

You can use the following cartridges with your printer.

Black ink cartridge	S020189
Color ink cartridge	S020191

EPSON special media

EPSON offers specifically designed media for ink jet printers to meet most high-quality printing needs.

EPSON 360 dpi Ink Jet Paper (A4)	S041059
EPSON Premium Ink Jet Plain Paper (A4)	S041214
EPSON Photo Quality Ink Jet Paper (A4)	S041061
EPSON Photo Quality Ink Jet Card (A6)	S041054
EPSON Photo Quality Ink Jet Card (5 × 8")	S041121
EPSON Photo Quality Ink Jet Card (8 × 10")	S041122
EPSON Photo Quality Self Adhesive Sheet (A4)	S041106
EPSON Ink Jet Note Cards A6 (with envelopes)	S041147
EPSON Ink Jet Greeting Cards 5 × 8" (with envelopes)	S041148
EPSON Ink Jet Greeting Cards 8 × 10" (with envelopes)	S041149
EPSON Photo Quality Glossy Film (A4)	S041071
EPSON Photo Quality Glossy Film (A6)	S041107
EPSON Ink Jet Transparencies (A4)	S041063
EPSON Photo Paper (A4)	S041140
EPSON Photo Paper (4 × 6")	S041134
EPSON Photo Paper (100 × 150 mm)	S041255
EPSON Photo Paper (200 × 300 mm)	S041254
EPSON Photo Paper Cards (A4)	S041177
EPSON Photo Stickers 16 (A6)	S041144
EPSON Photo Stickers 4 (A6)	S041176
EPSON Panoramic Photo Paper (210 × 594 mm)	S041145
EPSON Iron-On Cool Peel Transfer Paper (A4)	S041154
EPSON Matte Paper-Heavyweight (A4)	S041256

Appendix A

Tips for Color Printing

Basics of Color	A-2
Image Resolution and Image Size	A-6
Guidelines for Using Color	A-7

Basics of Color

This section describes the basic properties of color, the relationships between colors, and how to use color to improve the quality of your printed documents.

Properties of color

Color is composed of three properties: hue, saturation, and brightness.

Hue

The name of the color, such as red, blue, or violet. The circle that represents the relationship between all hues is called the hue circle.

Saturation

The vividness of the color. This represents the amount of gray in proportion to the hue.

Brightness

The relative lightness or darkness of the color.

The method for representing these properties is called the Munsell renotation color system. The hue circle and the Munsell renotation color system are useful to understand the properties of color.

Synchronizing monitor colors and printer colors

Your printer produces images by printing tiny patterns of ink dots on paper. It uses the colors cyan (C), magenta (M), yellow (Y), and black (K) to create a blending effect that creates millions of colors. This type of color, produced by pigments that absorb some colors of light and reflect others, is called subtractive.

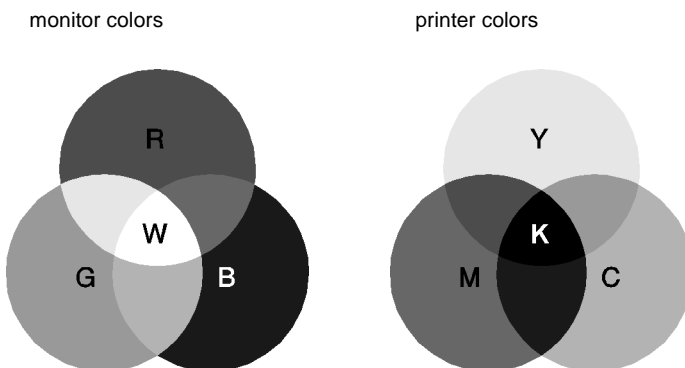
Note:

In theory, pure cyan, magenta, and yellow should produce black, but actually they produce a muddy brown and must be combined with black ink to produce a true black (K).

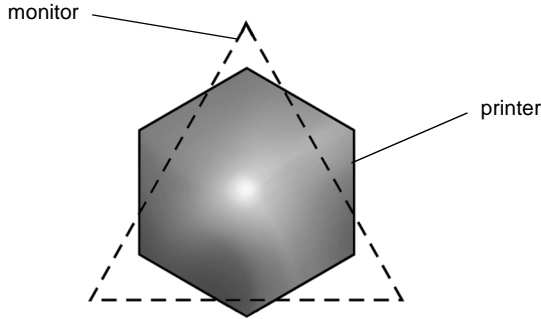
Your monitor produces images by illuminating color phosphors on the screen with an electron gun. (A phosphor is a substance that gives off light when irradiated.) Each screen point (pixel) has three colored phosphors: red (R), green (G), and blue (B).

Since the printer and monitor produce color images differently, and the available range of color produced by the monitor and printer are different, the image on the screen does not exactly match your printed output all of the time. If you want to adjust, or calibrate, the printed color to more closely match the on-screen color, you may have to experiment with the printer driver settings.

Additionally, color management software is available from a variety of software and monitor companies to help you match colors produced by your monitor and printer. See your image-editing software documentation for information on color matching.



The range of colors that can be displayed:

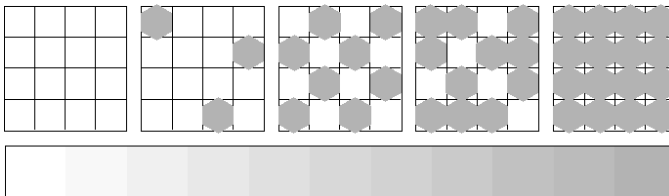


Note:

When printing a scanned image, you may find it more difficult to match colors. Because scanners create the original image data using CMYK, the data format of your image will be changed twice.

Process of color printing

A printer produces color images by printing tiny patterns of ink dots using CMYK colors as mentioned in the previous section. Because most ink jet printers are not able to print different gradations of the three primary colors, they must use a halftoning method in order to represent millions of colors or the gradation of colors as follows:



Dithering and error diffusion are the most commonly used halftoning methods.

Dithering

Dithering uniformly aligns individual dots of different colored inks to create the appearance of natural colors. This method is suitable for printing documents that contain large areas of solid color, such as bar charts and graphs.

Error diffusion

Error diffusion blends individual colored dots with the colors of the surrounding dots to create the appearance of natural colors. By blending colored dots, the printer can achieve excellent colors and subtle color gradation. This method is best suited for printing documents that contain detailed graphics or photographic images.

Image Resolution and Image Size

The resolution of your original image affects the quality of your printouts. Generally, the higher the resolution, the better the print quality. However, keep in mind that the higher the resolution, the longer the wait for processing and printing a document.

Generally, the printed image size is in inverse proportion to the image resolution, as shown below. The larger the image size, the lower the image resolution. Conversely, the smaller the image size, the higher the image resolution.

Note:

Some applications have a function that can correct this relationship.

300 pixel



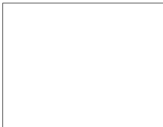
300 dpi

Print

225 pixel



300 pixel

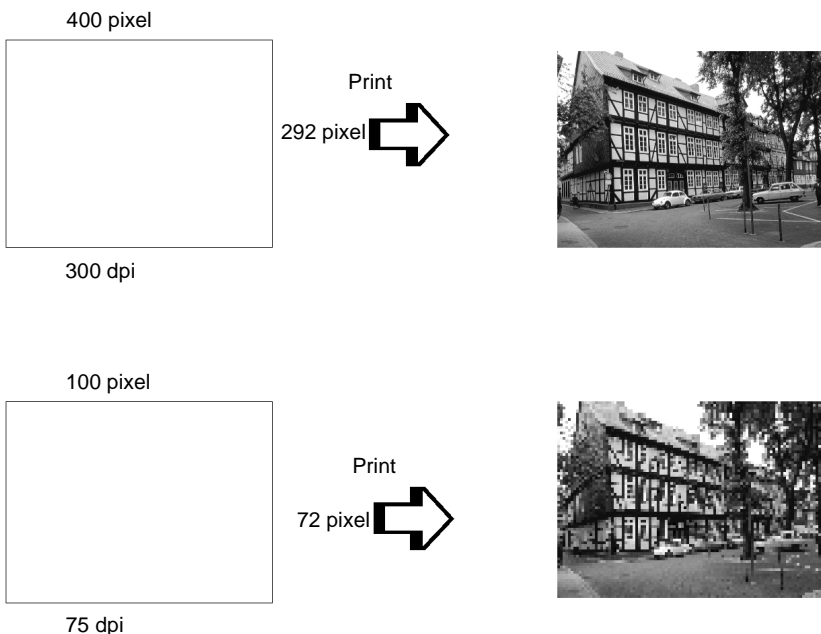


150 dpi

Print

225 pixel





Since increasing the image size means decreasing the image resolution, you must take care that print quality or color tone is not degraded when working with images pasted into documents created with word processing software. To avoid print quality and color tone problems, change the size and the resolution of the image in your graphics application before pasting it into your document.

Guidelines for Using Color

To help you use color to maximize your document's impact on its readers, determine the who, what, when, where, why, and how of color printing.

Know WHO your readers are and WHAT your purpose is

Your documents are intended to communicate information, opinions, or feelings to one or more people and also to get results. Therefore, first you need to think about who is going to see your work: customer, co-worker, or other; and what your purpose is: to advise, sell, propose, and so on.

For example:

A marketing proposal with generous quantities of bright, fluorescent colors might fail to impress a conservative accounting firm, yet win over a music video company.

Know WHEN to use color

While color can enhance any document, you need to decide when color helps expand understanding of your message and when it distracts the reader. Sometimes a serious business message is best delivered without additional colors. (Remember that white and black are colors, too.)

For example:

A job offer letter to a prospective employee works best in black and white, while a list of safety rules benefits from attention-getting color.

Decide WHERE color will most benefit your document

If you use color on every page or all over a page, you may lose not only the impact of color, but also the clarity and readability of your work. When used consistently and strategically, color breaks up the monotony of black-and-white text reading.

Note:

- ☐ *Avoid placing too many color pictures, tables, or icons on a page.*
- ☐ *Size your color images so that they do not overpower text or graphics.*
- ☐ *Avoid using too much colored text. It is more difficult to read than black-on-white or white-on-black text.*

Know WHY you are using color

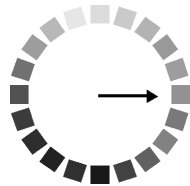
Color adds interest and clarity, and makes documents appear easier to understand. Just as you use fonts and graphics to create appeal and capture attention, color provides an additional visual interpretation of a document that influences the reader.

For example:

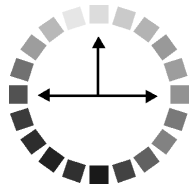
An overhead presentation of sales results by territory is far more interesting and memorable if you show the figures with colored charts and graphs.

Know HOW to select colors

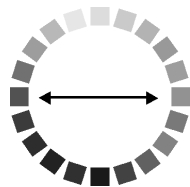
- ☐ Use just one hue in the hue circle to make your document unified. Modify saturation or brightness to add interest.



- ☐ Use contrasting hues to make your work more eye-catching.



- ☐ Use of complementary colors in documents is generally not recommended.



- ☐ Determine a rule for using color throughout the document.

Appendix B

Product Specifications

Printing	B-2
Paper	B-2
Printable area	B-5
Mechanical	B-7
Ink Cartridges	B-7
Scanning	B-9
Electrical	B-10
Environmental	B-10
Initialization Methods	B-11
Safety Approvals	B-11
Interface Specifications	B-12
Parallel interface	B-12
USB interface	B-13
System Requirements	B-14
For PCs	B-14
For Macintosh computers	B-15

Printing

Printing method	On-demand ink jet
Nozzle configuration	Monochrome (black) 144 nozzles Color (cyan, magenta, yellow) 144 nozzles (48 [each color] × 3)
Resolution	Maximum 1440 dpi × 720 dpi
Print direction	Bidirectional with logic seeking
Control code	ESC/P raster EPSON Remote
Input buffer	64 KB

Paper

Note:

Since the quality of any particular brand or type of paper may be changed by the manufacturer at any time, EPSON cannot attest to the quality of any non-EPSON brand or type of paper. Always test samples of paper stock before purchasing large quantities or printing large jobs.

Single sheets:

Size	A4 (210 mm × 297 mm) A5 (148 mm × 210 mm) B5 (182 mm × 257 mm) Letter (216 mm × 279 mm) Half letter (139.7 mm × 215.9 mm) Legal (216 mm × 356 mm) Executive (184.2 mm × 266.7 mm)
Paper types	Plain bond paper, special papers distributed by EPSON
Thickness (for plain bond paper)	0.08 mm to 0.11 mm
Weight (for plain bond paper)	64 g/m ² to 90 g/m ²

Envelopes:

Size	No. 10 (104 mm × 240 mm) DL (110 mm × 220 mm) C6 (114 mm × 162 mm) 132 mm × 220 mm
Paper types	Plain bond paper, air mail
Thickness	0.16 mm to 0.52 mm
Weight	45 g/m ² to 75 g/m ²

Index cards:

Size	A6 (105 mm × 148 mm) 5 × 8" (127 mm × 203 mm) 10 × 8" (254 mm × 203 mm)
Paper types	Special papers distributed by EPSON

Transparencies, glossy film:

Size	A4 (210 mm × 297 mm) Letter (216 mm × 279 mm) A6 (105 mm × 148 mm)* * for glossy film
Paper types	Special papers distributed by EPSON

Self adhesive sheets:

Size	A4 (210 mm × 297 mm)
Paper types	Special papers distributed by EPSON

Photo paper:

Size	A4 (210 mm × 297 mm) Letter (216 mm × 279 mm) 4 × 6" (102 mm × 152 mm) Panoramic (210 mm × 594 mm) 100 mm × 150 mm 200 mm × 300 mm
Paper types	Special papers distributed by EPSON

Photo Stickers:

Size	A6 (105 mm × 148 mm) with 4 or 16 frames
Paper types	Special paper distributed by EPSON

Matte Paper-Heavyweight:

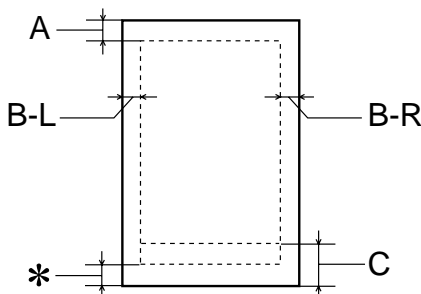
Size	A4 (210 mm × 297 mm) Letter (216 mm × 279 mm)
Paper types	Special papers distributed by EPSON

Note:

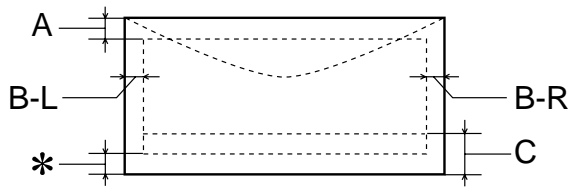
- ❑ *Poor quality paper may reduce print quality and cause paper jams or other problems. If you encounter problems, switch to a higher grade of paper.*
- ❑ *Do not load curled or folded paper.*
- ❑ *Use paper under normal conditions:*
Temperature 15 to 25°C
Humidity 40 to 60% RH
- ❑ *EPSON Photo Quality Glossy Film and Self Adhesive Sheets should be stored under the following conditions:*
Temperature 15 to 30°C
Humidity 20 to 60% RH

Printable area

Single sheets (including panoramic size) and index cards



Envelopes



- A: The minimum top margin is 3.0 mm.
When loading multiple sheets of EPSON Photo Quality Glossy Film, the minimum top margin is 30.0 mm.
- B-L: The minimum left margin is 3.0 mm.
- B-R: The minimum right margin is as follows:
3.0 mm for single sheets and C6 envelopes.
7.0 mm for DL envelopes.
28.0 mm for No. 10 envelopes.
- C: The minimum bottom margin is 14.0 mm.
- *: You can extend the minimum bottom margin to 3 mm by selecting **Maximum** as the Printable Area setting on the printer driver's Paper menu (for Windows) or Page Setup dialog box (for Macintosh). However, print quality may decline in the expanded area. Before printing large jobs using this setting, print a single sheet to confirm printout quality.

Note:

Always load paper into the paper feeder short edge first. Load envelopes flap edge first with the flap side down.

Mechanical

Paper feed method	Friction
Paper path	paper feeder, rear entry
paper feeder capacity	About 100 sheets at 64 g/m ² paper
Dimensions	Storage Width: 437 mm Depth: 383 mm Height: 300 mm Printing Width: 437 mm Depth: 618 mm Height: 300 mm
Weight	7.5 kg without the ink cartridges

Ink Cartridges

Black ink cartridge (S020189)

Color	Black
Print capacity*	900 pages (A4, text at 360 dpi)
Cartridge life	2 years from production date (within 6 months after opening package, at 25°C)
Temperature	Storage: -20 to 40°C 1 month at 40°C Transit: -30 to 60°C 1 month at 40°C 120 hours at 60°C Freezing:** -16°C
Dimensions	27.8 mm (W) × 52.7 mm (D) × 38.5 mm (H)

Color ink cartridge (020191)

Color	Cyan, Magenta, and Yellow
Print capacity*	300 pages (A4, 360 dpi, 5% duty each color)
Cartridge life	2 years from production date (within 6 months of opening the package at 25°C)
Temperature	Storage: -20 to 40°C 1 month at 40°C Transit: -30 to 60°C 1 month at 40°C 120 hours at 60°C Freezing:** -18°C
Dimensions	42.9 mm (W) × 52.7 mm (D) × 38.5 mm (H)

* The print capacity may vary, depending on how often you use the print head cleaning function and how often you use the printer.

** Ink thaws and is usable after approximately 3 hours at 25°C.



Caution:

- ❑ *EPSON recommends the use of original EPSON ink cartridges only. Other products not manufactured by EPSON may cause damage to your printer not covered by EPSON's warranties.*
- ❑ *Do not use an ink cartridge if the date on the package has expired.*

Scanning

Scanner type:	Sheet Feed color image scanner (without ADF)
Photoelectric device:	Color CCD line sensor
Effective pixels:	2550 × 4200 pixels (300 dpi)
Document size:	8.5 × 14" (216 × 355.6 mm) (The reading area can be specified from your software.)
Scanning resolution:	300 dpi (main) 600 dpi (sub)
Output resolution:	50 to 4800 dpi
Color separation:	RGB color filters on CCD
Image data:	12 bits per pixel per color internal 8 bits per pixel per color external
Brightness:	7 levels
Line Art settings:	Fixed threshold Text Enhancement Technology
Halftoning process:	AAS (Auto Area Segmentation)
Gamma correction:	Printer 3 level (A, B, C) User defined 1 level
Interface:	USB 1.0 + IEEE1284.4
Light source:	White cold cathode fluorescent lamp
Reliability:	Main unit: Life 10,000 page Lamp: Life 10,000 hour

Electrical

Input voltage range	198 to 264V
Rated frequency range	50 to 60 Hz
Input frequency range	49.5 to 60.5 Hz
Rated current	0.4 A
Power consumption	Approx. 29 W (ISO10561 Letter Pattern)

Note:

Check the label on the back of the EPSON Stylus Scan for the voltage information.

Environmental

Temperature	Operation: 10 to 35°C Storage: -20 to 40°C 1 month at 40°C Transit: *-20 to 60°C 120 hours at 60°C
Humidity	Operation: 20 to 80% RH Storage: *, ** 5 to 85% RH

* Stored in shipping container

** Without condensation

Initialization Methods

The scanner can be initialized (returned to a fixed set of conditions) in the following ways:

- | | |
|--------------------------|--|
| Hardware initialization: | This scanner is initialized when turning the printer power on. When scanner is initialized, following action is performed. <ul style="list-style-type: none">a) Initializes scanner mechanism.b) Clears input/output data buffer.C) Sets default values. |
| Software initialization: | The ESC @ command also initializes the printer. When printer is initialized, following action is performed. <ul style="list-style-type: none">a) Clears input/output data buffer.b) Sets default values. |
| Operator initialization: | This scanner is recognized the INIT (negative pulse) of parallel interface. When printer is initialized, following action is performed. <ul style="list-style-type: none">a) Clears input/output data buffer.b) Sets default values. |

Safety Approvals

- | | |
|-------------------|---|
| Safety standards: | EN60950 (VDE) |
| EMC: | EN 55022 (CISPR Pub. 22) class B
EN 50082-1
IEC 801-2
IEC 801-3
IEC 801-4
EN 61000-3-2
EN 61000-3-3 |

Interface Specifications

Your printer is equipped with an 8-bit parallel interface and a USB interface.

Parallel interface

The built-in parallel interface has the following characteristics.

Forward channel

Data format	8-bit parallel, IEEE-1284 compatibility mode, IEEE-1284 ECP mode
Synchronization	See the IEEE-1284 specification
Handshake timing	See the IEEE-1284 specification
Signal level	IEEE-1284 Level 1 device
Connector	57-30360 Amphenol connector or equivalent

Reverse channel

Transmission mode	IEEE-1284 Nibble mode, IEEE-1284 ECP mode
Adaptable connector	57-30360 Amphenol connector or equivalent
Synchronization	See the IEEE-1284 specification
Handshaking	See the IEEE-1284 specification
Signal level	IEEE-1284 Level 1 device
Data transmission timing	See the IEEE-1284 specification

USB interface

The EPSON Stylus Scan’s built-in USB interface is based on the standards specified in the Universal Serial Bus Specifications Revision 1.0 and the Universal Serial Bus Device Class Definition for Printing Devices Version 1.0. This interface has the following characteristics.

Standard	Based on Universal Serial Bus Specifications Revision 1.0, Universal Serial Bus Device Class Definition for Printing Devices Version 1.0
Bit rate	12 Mbps (full speed device)
Data encoding	NRZI
Adaptable connector	USB Series B
Recommended cable length	2 meters

System Requirements

For PCs

To use your EPSON Stylus Scan, you need Microsoft® Windows® 95, or Windows® 98; and CD-ROM drive and a shielded, twisted-pair parallel cable. If you want to connect your printer to a USB port, you need a Windows 98 pre-installed PC equipped with a USB port; and a shielded USB cable.

Your computer should also meet the following system requirements.

Minimum System Requirements	Recommended System
i486/25 MHz for Windows 95 i486/66 MHz for Windows 98	Pentium or higher processor
32 MB RAM	32 MB RAM or more for Windows 95 and 98
50 MB hard disk space for Windows 95, and 98	50 MB or more free disk space for Windows 95, and 98
VGA size, 16 bit color	SVGA or better 24 bit color

Your computer dealer can help you update your system if it does not meet these requirements.

For Macintosh computers

You can use this printer with the following Apple® Macintosh® computers. You also need a shielded USB cable.

Applicable computer models

iMac Series (for USB)

Power Macintosh G3 (for USB)

Your Macintosh must also meet the following system requirements.

Note:

Macintosh can be connected to the Stylus Scan by using a USB cable only.

Minimum System Requirements	Recommended System
System 8.1 + iMac update	System 8.5.1 or later
7 MB of available memory 12 MB of available memory when background printing is turned on.	14 MB or more of available memory 23 MB of available memory when background printing is turned on.

Note:

- ❑ *The amount of available memory varies according to the number and kind of applications that are open. To see how much memory is available, choose **About This Computer** from the Apple menu and refer to the memory size (listed in kilobytes) under **Largest Unused Block** (1,024K=1 MB).*
- ❑ *The memory requirements above are for printing on Letter size paper. These requirements may vary depending on the size of the paper, the type of application you are using, and the complexity of the document you want to print.*

In addition to these system and memory requirements, you also need 10 MB of free hard disk space to install your printer software. To print, you need extra hard disk space amounting to about double the size of the file you want to print.

Glossary

The following definitions apply specifically to printers.

application

A software program that helps you carry out a particular task, such as word processing or financial planning.

ASCII

American Standard Code for Information Interchange. A standardized coding system for assigning numerical codes to letters and symbols.

banding

The horizontal lines that sometimes appear when printing graphics. This occurs when the print head is misaligned. See also *MicroWeave*.

bit

A binary digit (0 or 1), which is the smallest unit of information used by a printer or computer.

brightness

The lightness or darkness of an image.

buffer

The portion of the printer's memory used to store data before printing it.

byte

A unit of information consisting of eight bits.

characters per inch (cpi)

A measure of the size of text characters, sometimes referred to as pitch.

CMYK

Cyan (blue-green), magenta, yellow, and black. These colored inks are used to create the subtractive system array of printed colors.

color matching

A method of processing color data so that colors displayed on a computer screen closely match colors in printouts. A variety of color-matching software is available. See also *ColorSync*.

ColorSync

Macintosh software that is designed to help you get WYSIWIG (what you see is what you get) color output. This software prints colors as you see them on your screen.

cpi

See *characters per inch*.

default

A value or setting that takes effect when the equipment is turned on, reset, or initialized.

dithering

A halftoning method in which dots are arranged in an orderly pattern. Dithering works best for printing images with solid colors, such as charts and graphs. See also *halftoning*.

DMA

Direct Memory Access. A data transfer feature that bypasses a computer's CPU and allows direct communication between a computer and peripheral devices (like printers), and between one peripheral device and another.

dpi

Dots per inch. The dpi measures the resolution. See also *resolution*.

drive

A memory device, such as CD-ROM, hard disk, or floppy disk. In Windows, a letter is assigned to each drive for easy management.

driver

A software program that sends instructions to a computer peripheral to tell it what to do. For example, your printer driver accepts print data from your word processor application and sends instructions to the printer on how to print this data.

economy printing

Printing in which images are printed with fewer dots to save ink.

error diffusion

Error diffusion blends individual colored dots with the colors of the surrounding dots to create the appearance of natural colors. By blending colored dots, the printer can achieve excellent colors and subtle color gradation. This method is best suited for printing documents that contain detailed graphics or photographic images.

ESC/P

Abbreviation for EPSON Standard Code for Printers, the system of commands your computer uses to control your printer. It is standard for all EPSON printers and supported by most application software for personal computers.

Finest detail

This printer driver setting automatically makes your printout sharper and clearer, especially for text. Be aware that this may increase the time required for printing.

font

A style of type designated by a family name.

grayscale

A scale of shades of gray from black to white. Grayscale is used to represent colors when printing with black ink only.

halftones

Patterns of black or colored dots used to reproduce an image.

halftoning

Method of using dot patterns to represent an image. Halftoning makes it possible to produce varying shades of gray using only black dots, or a nearly infinite array of colors using only a few colors of dots. See also *halftones*.

high speed printing

Printing in which images are printed in both directions. This provides faster printing.

initialization

Returns the printer to its defaults (fixed set of conditions). This happens every time you turn on the printer or reset the printer.

ink cartridge

Contains the ink your printer uses when printing.

ink jet

A method of printing in which each letter or symbol is formed by precisely spraying ink onto paper.

interface

The connection between the computer and the printer. A parallel interface transmits data one character or code at a time. A serial interface transmits data one bit at a time.

interface cable

The cable that connects the computer and the printer.

local printer

The printer connected to the computer's port directly by interface cable.

media

Materials upon which data is printed, such as envelopes, plain paper, special paper, and transparency film.

memory

The part of the printer's electronic system that is used to store information (data). Some information is fixed and is used to control how the printer operates. Information that is sent to the printer from the computer is stored in memory temporarily. See also *RAM* and *ROM*.

MicroWeave

Printing in which images are printed in finer increments to reduce the possibility of banding and to produce laser-like images. See also *banding*.

monochrome

This means printing with only one color of ink, which is generally black ink.

nozzle

Fine tubes in the print head through which ink is sprayed on the page. Print quality may decline if the print head nozzles are clogged.

operation check

A method for checking the operation of the printer. When you perform a printer operation check, the printer prints the ROM version, code page, ink counter code, and a nozzle check pattern.

parallel interface

See *interface*.

port

An interface channel through which data is transmitted between devices.

printable area

The area of a page on which the printer can print. It is smaller than the physical size of the page due to margins.

printer driver

A software program that sends commands for using the features of a particular printer. Often shortened to “driver”.

print queue

If your printer is connected to a network, print jobs that are sent to the printer while it is busy are stored in a waiting line, or print queue, until they can be printed.

RAM

Random Access Memory. The portion of the printer's memory used as a buffer and for storing user-defined characters. All data stored in RAM is lost when the printer is turned off.

reset

To return a printer to its defaults by turning the printer off and then back on.

resolution

The number of dots per inch used to represent an image.

ROM

Read Only Memory. A portion of memory that can only be read and cannot be used for data storage. ROM retains its contents when you turn off the printer.

RGB

Red, green, and blue. These colors, in phosphors irradiated by the computer monitor's electron gun, are used to create the additive array of screen colors.

spool

The first step in printing, in which the printer driver converts the print data into codes that your printer understands. This data is then sent to the printer directly or to the print server.

spool manager

The software program that converts print data into codes that your printer understands. See also *spool*.

StatusMonitor

The software program that allows you to check the printer's status.

subtractive colors

Colors produced by pigments that absorb some colors of light and reflect others. See also *CMYK*.

USB interface

Universal Serial Bus interface. Enables the user to connect up to 127 peripheral devices (such as keyboards, mice, and printers) to the computer through a single, general purpose port. The use of USB hubs allows you to add additional ports. See also *interface*.

WYSIWIG

What-you-see-is-what-you-get. This term is used to describe printout that looks exactly like it appears on screen.

Index

A

Advanced settings
 Macintosh 6-8
 Windows 4-10
Automatic setting
 Macintosh 6-6
 Windows 4-7

B

Background printing 6-19, 7-4–7-7
Buttons 1-4

C

Cables 13-2
Cleaning sheets 3-7
ColorSync setting 6-7
Computer
 requirements B-14–B-15
Configuration settings 7-3
Consumable products 13-1–13-3
Custom paper size 6-12
Custom settings
 Macintosh 6-7
 Windows 4-9
Custom Settings dialog box
 Macintosh 6-10
 Windows 4-11
Customer support 12-25

E

Economy setting
 Macintosh 6-7
 Windows 4-9
Envelopes 3-7–3-8, B-3, B-6
EPSON Monitor 3 7-4–7-7
EPSON Spool Manager 5-4

EPSON Status Monitor 2 5-4–5-5
EPSON StatusMonitor 7-2
Error indicators 12-3–12-4

G

Glossy film 13-3

H

Head Cleaning utility 11-5–11-9

I

ICM setting 4-9
Ink cartridges 13-2
 replacing 10-1–10-16
Ink jet card 3-5, 13-3
Ink jet paper 3-5, 13-3
Ink setting
 Macintosh 6-6
 Windows 4-7
Interface cables 13-2
Iron-on cool peel
 transfer paper 3-5, 13-3

L

Layout dialog box 6-14–6-19
Layout menu 4-16–4-20
Lights 1-5, 12-3–12-4
Loading paper 3-3–3-9

M

Main menu 4-5–4-9
Maintenance 11-1–11-16
Matte
 Paper-Heavyweight 3-5, 13-3
Media Type setting
 Macintosh 6-4

Windows 4-5

N

Nozzle checking 11-2–11-9

O

Options 13-1–13-3

Orientation setting
Macintosh 6-11

P

Page Setup dialog box 6-11–6-12

Paper jam 12-16

Paper menu 4-14–4-15

Photo paper 3-5, 3-8–3-12, 13-3

Photo stickers 3-5, 13-3

Preview feature 6-20

Print head
alignment 11-10–11-11
nozzle checking 11-2–11-4

Print Head Alignment
utility 11-10–11-11

Print Quality setting
Macintosh 6-9
Windows 4-10

Print speed, increasing 4-27–4-29

Print time setting 6-19

Printable Area setting
Macintosh 6-11

Printable area specifications B-5

Printer parts 1-2

Printer software for Macintosh
changing settings 6-2–6-22
utilities 6-23–6-25

Printer software for Windows
accessing 4-2–4-3
changing settings 4-4–4-20
utilities 4-21–4-26

Progress Meter 5-2

R

Reduce/Enlarge setting
Macintosh 6-12
Windows 4-16

Resolution B-2

S

Safety instructions 2-1–2-5

Saving settings
Macintosh 6-10
Windows 4-11

Self adhesive sheets 3-5, 13-3

Special paper 3-1–3-12, 13-3

Specifications
electrical B-10
environmental B-10
ink cartridges B-7
interface B-12–B-13
mechanical B-7
paper B-2–B-5
printable area B-5
printing B-2
safety approvals B-11

Speed & Progress settings 4-29

Spool Manager 5-4

sRGB setting 4-9

Status Monitor
Macintosh 7-2
Windows 5-4–5-5

T

Text/Graph setting
Macintosh 6-7
Windows 4-9

Transparencies 3-5, 13-3

Troubleshooting 12-1

U

Utilities

Macintosh 6-23–6-25

Windows 4-21–4-26

W

Watermark setting

Macintosh 6-17

Windows 4-19