Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
FRONT.FM   A5 size
7/3/03

R

Where to Find Information

Setup

This guide will help you set up and begin using your printer. It includes information on setting up your printer and installing the printer software.

Photo Print Software Setup

This guide provides information on installing EPSON PhotoQuicker, EPSON PhotoStarter, EPSON CardMonitor, EPSON PRINT Image Framer Tool and PIF DESIGNER. It also contains uninstalling and system requirements.

Quick Reference

This guide provides a simplified procedure for printing without a computer. It also contains a diagram of LCD panel settings.

Standalone Operation Guide

This guide provides information for direct printing, troubleshooting tips and customer support information.

EPSON PhotoQuicker User's Guide

This guide, included in EPSON Photo Quicker, provides information on the EPSON PhotoQuicker utility and troubleshooting tips.

Reference Guide

The Reference Guide contained on the CD-ROM provides detailed information about printing with a computer, maintenance, and problem solving.

EPSON®

Color Inkjet Printer

EPSON STYLUS™ PHOTO R310 Series

DPOF is a trademark of CANON INC., Eastman Kodak Company, Fuji Photo Film Co., Ltd. and Matsushita Electric Industrial Co., Ltd.

The *Bluetooth* word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Seiko Epson Corporation is under license.

Zip® is a registered trademark of Iomega Corporation.

SD is a trademark.

General Notice: Other product names used herein are for identification purposes only and may be trademarks of their respective owners. Epson disclaims any and all rights in those marks.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   **Rev. B**
SHORT.TOC   A5 size
7/3/03

R

Contents

L | R4CC820
short.bk | Rev. B
SHORT.TOC
7/3/03 | A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**   **Rev. B**

SAFE.FM   A5 size
7/3/03

R

Safety Instructions

Important Safety Instructions

Read all of the instructions in this section before using your
printer. Also, be sure to follow all warnings and instructions
marked on the printer.

When setting up your printer

Observe the following when setting up the printer:

❑   Do not block or cover the vents and openings in the printer.

❑   Use only the type of power source indicated on the printer's
    label.

❑   Use only the power cord that comes with this product. Use of
    another cord may result in fire or electric shock.

❑   This product's power cord is for use with this product only.
    Use with other equipment may result in fire or electric shock.

❑   Be sure your AC power cord meets the relevant local safety
    standard.

❑   Avoid using outlets on the same circuit as photocopiers or air
    control systems that 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 or the
    base units of cordless telephones.

L

**R4CC820
short.bk**   **Rev. B**

SAFE.FM   A5 size
7/3/03

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

❏ Do not use a damaged or frayed power cord.

❏ If you use an extension cord with the printer, make sure that the total ampere rating of the devices plugged into the extension cord does not exceed the cord's ampere rating. Also, make sure that 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 printer yourself.

❏ Unplug the printer and refer servicing to qualified service personnel under the following conditions:

The power cord or plug is damaged; liquid has entered the printer; the printer has been dropped or the casing damaged; the printer does not operate normally or exhibits a distinct change in performance.

❏ If you plan to use the printer in Germany, the building installation must be protected by a10 or 16 amp circuit breaker to provide adequate short-circuit protection and over-current protection for this printer.

When choosing a place for the printer

Observe the following when choosing a place for the printer:

❏ Place the printer on a flat, stable surface that extends beyond the base of the printer in all directions. If you place the printer by the wall, leave more than 10 cm between the back of the printer and the wall. The printer will not operate properly if it is tilted at an angle.

❏ When storing or transporting the printer, do not tilt it, stand it on its side, or turn it upside down. Otherwise, ink may leak from the cartridges.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B

SAFE.FM   A5 size
7/3/03

R

❏ Leave enough space in front of the printer for the paper to be fully ejected.

❏ Avoid places subject to rapid changes in temperature and humidity. Also, keep the printer away from direct sunlight, strong light, or heat sources.

❏ Avoid places subject to dust, shocks, or vibrations.

❏ Leave enough room around the printer to allow for sufficient ventilation.

❏ Place the printer near a wall outlet where the plug can be easily unplugged.

When using the printer

Observe the following when using the printer:

❏ Do not insert objects through the slots in the printer.

❏ Take care not to spill liquid on the printer.

❏ Do not put your hand inside the printer or touch the ink cartridges during printing.

❏ Do not move the print head by hand; otherwise, you may damage the printer.

❏ Always turn the printer off using the ⏻ power button. When this button is pressed, the LCD panel goes blank. Do not unplug the printer or turn off the power to the outlet until the LCD panel goes blank.

❏ Before transporting the printer, make sure that the print head is in the home (far right) position and the ink cartridges are in place.

L

**R4CC820
short.bk**   **Rev. B**

SAFE.FM   A5 size
7/3/03

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

❏ Leave the ink cartridges installed. Removing the cartridges can dehydrate the print head and may prevent the printer from printing.

When using a memory card

❏ Do not remove the memory card or turn off the printer while the computer and the memory card are communicating (when any one of the memory card lights is flashing.).

❏ The methods for using memory cards vary according to card type. Be sure to refer to the documentation packaged with your memory card for details.

❏ Use only memory cards compatible with the printer. Refer to Loading Memory Cards.

When using LCD panel or the optional Preview Monitor

❏ The LCD panel or optional Preview Monitor may contain a few small bright or dark spots. These are normal and do not mean that the LCD monitor is damaged in any way.

❏ Only use a dry, soft cloth to clean the LCD panel or the optional Preview Monitor. Do not use liquid or chemical cleansers.

❏ If the LCD panel on your printer's control panel or optional Preview Monitor is damaged, contact your dealer. If the liquid crystal solution gets on your hands, wash them thoroughly with soap and water. If the liquid crystal solution gets into your eyes, flush them immediately with water. If discomfort or vision problems remain after a thorough flushing, see a doctor immediately.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
SAFE.FM   A5 size
7/3/03

R

❏ Do not remove the Preview Monitor slot cover unless you are using the optional Preview Monitor.

When using the optional Bluetooth Photo Print Adapter

Refer to *Bluetooth Photo Print Adapter* for the safety instructions when using the Bluetooth Adapter.

When handling the ink cartridges

Observe the following when handling the ink cartridges:

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

❏ Do not shake the ink cartridges; this can cause leakage.

❏ Be careful when you handle used ink cartridges, as there may be some ink remaining around the ink supply port. If ink gets on your skin, wash the area thoroughly with soap and water. If ink gets into your eyes, flush them immediately with water. If discomfort or vision problems remain after a thorough flushing, see a doctor immediately.

❏ Do not remove or tear the label on the cartridge; this can cause leakage.

❏ Install the ink cartridge immediately after you remove it from its package. If you leave a cartridge unpacked for a long time before using it, normal printing may not be possible.

❏ Do not use an ink cartridge beyond the date printed on the cartridge carton: otherwise, it may result in reduced print quality. For best results, use up the ink cartridges within six months of first installing them.

L

R4CC820 short.bk
SAFE.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

❏ Do not dismantle the ink cartridges or try to refill them. This could damage the print head.

❏ After bringing an ink cartridge inside from a cold storage site, allow it to warm up at room temperature for at least three hours before using it.

❏ Store ink cartridges in a cool, dark place.

❏ Do not touch the green IC chip on the back of the cartridge. Doing so may prevent normal operation and printing.

❏ The IC chip on this ink cartridge retains a variety of cartridge related-information such as the amount of ink remaining, so that the cartridge may be removed and reinserted freely. However, each time the cartridge is inserted, some ink is consumed because the printer automatically performs a reliability check.

❏ If you remove an ink cartridge for later use, protect the ink supply area from dirt and dust and store it in the same environment as the printer. A valve in the ink supply port makes covers or plugs unnecessary, but the ink may stain items that come into contact with this area of the cartridge. Do not touch the ink supply port or the surrounding area.

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, copiers, and scanners in an effort to reduce air pollution caused by power generation.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B

SAFE.FM   A5 size
7/3/03

R

Warnings, Cautions, and Notes

w *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 printer.

L

R4CC820
short.bk
SAFE.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

L

R4CC820
short.bk
SAFE.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**
PARTS.FM
7/3/03

Rev. B
A5 size

R

Printer Parts and Control Panel Functions

Printer Parts

paper support   sheet feeder

printer cover

memory card
slot cover

external Device
USB connector

edge guides

CD/DVD guide   output tray   output tray extension

L

**R4CC820
short.bk**
PARTS.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Memory card slot (enlarged figure)

MemoryStick/MemoryStick
PRO/SD/MultiMediaCard
memory card slot

CompactFlash Type II
memory card slot

SmartMedia/xD-Picture
Card memory card slot

SD/MS PRO

CF   xD/SM

memory card light

preview monitor slot

preview monitor
cable connector

computer USB connector

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**   **Rev. B**

PARTS.FM   A5 size
7/3/03

R

cartridge cover

print head

LCD panel

control panel

L

R4CC820
short.bk
PARTS.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Control Panel

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
PARTS.FM   A5 size
7/3/03

R

Buttons

1. **LCD panel:** Shows the items and settings you change with the buttons on the control panel.

2. **Direct Save button:** Store the contents of memory card in an external storage device.

3. **Custom buttons:** Store the current settings on the LCD panel when held down for more than two seconds. Load the stored settings when pressed.

4. **Stop button:** Cancels print operations, or the settings on the LCD panel.

5. **Print button:** Starts printing with the settings on the LCD panel selected via the buttons on the control panel.

6. **Maintenance button:** Refer to the following table for details.

7. **Power button:** Refer to the following table for details.

8.**Back button:** Returns to the main menu on the LCD panel.

9. **Up/Down arrow buttons:** Move the cursor on the LCD panel. Increase and decrease numbers being entered.

10. **OK button:** Opens the setting menu and selects the item to be set on the LCD panel.

11. **Basic/Advanced mode switch button:** Switches between Basic mode and Advanced mode.

Note:
With the exception of the maintenance button, the stop button, and the power button, the control panel buttons are used only with direct printing from a memory card.
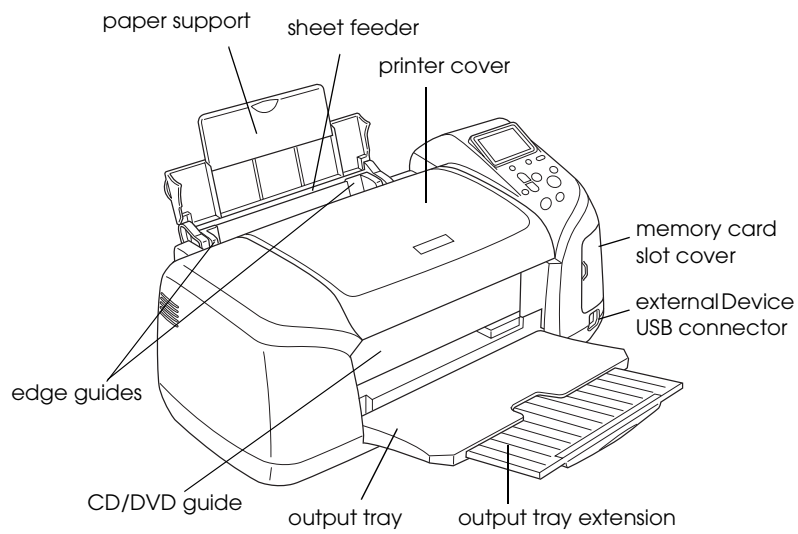
L

R4CC820
short.bk

PARTS.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Button	Function
⏻ power	Turns the printer on and off.
◊·🗒 maintenance	Displays instructions to resolve errors, or cleans the following errors: No ink No ink cartridge/abnormality No paper (cut sheet only) Paper jam Multi-page feed Starts the Ink Cartridge Replacement utility. Displays the Advanced Settings menu when the ◊·🗒 maintenance light is off and the button is pressed.

Lights

Light	Description
Maintenance ◊·🗒	On or flashes when an error occurs. On the LCD panel, check the description of the error.
Basic Print mode	On when Basic Print mode is selected.
Advanced Print mode	On when Advanced Print mode is selected.
Memory card	On when a memory card is inserted into the memory card slot. Flashes when the printer is accessing the memory card.

c *Caution:*
Use only one type of memory card at a time. Eject the loaded
memory card before inserting another memory card.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**   **Rev. B**

DBASE.FM   A5 size
7/3/03

R

Direct Printing Basics

Introduction

This section provides information on how to print directly from a memory card using settings on the LCD panel and without the use of a computer.

The instructions below provide an example of how to make settings to print a selected photo directry from a memory card. Before you start, you need the paper used in this example (A4-size plain paper) and memory card containing suitable digital photo data.

Note:
❏ *Before printing large jobs, print a single sheet to confirm quality.*

❏ *Disconnecting the USB cable is recommended when printing directly from a memory card.*

For printing from a computer, double click the ESPR310 Reference Guide icon on the desktop.

Loading Single Sheets of Paper

Follow the steps below to load paper into the printer.

1. Open the paper support, then slide out the extension.

2. Lower the output tray and slide out the extension.

3. Position the left edge guide so that the distance between the two guides is slightly wider than the width of your paper.

L

**R4CC820
short.bk**
DBASE.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

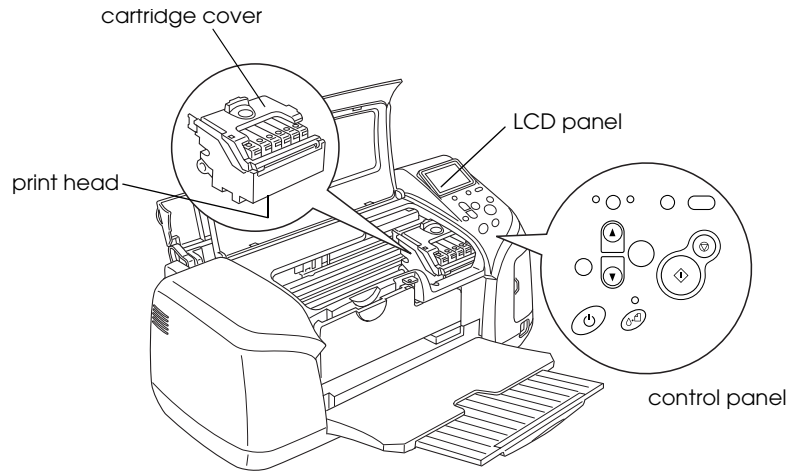4. Fan a stack of plain paper, then tap it on a flat surface to even the edges.

5. Load the paper with the printable side up so it is against the right edge guide, and slide it into the sheet feeder. Then slide the left edge guide against the left edge of the paper. Make sure that the paper stack is loaded under the tabs inside the edge guides.
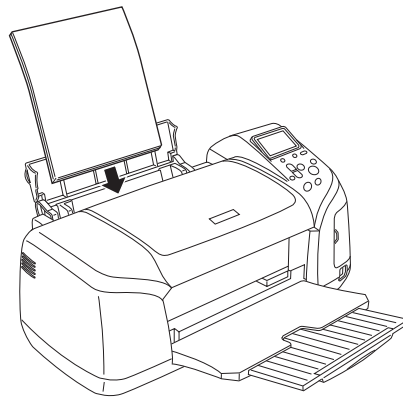
Note:
❏ *Leave enough space in front of the printer for the paper to be fully ejected.*

❏ *Always load paper into the sheet feeder short edge first.*

❏ *Make sure that the paper stack fits under the arrow mark inside the edge guide.*

❏ *Make sure the CD/DVD tray is not inserted in the printer and the CD/DVD guide is up.*

Media Type	Loading Capacity

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
DBASE.FM   A5 size
7/3/03

R

EPSON Photo Paper	Up to 20 sheets of Photo Paper. One sheet at a time for 200 × 300 mm Photo Paper.
EPSON Matte Paper-Heavyweight	Up to 20 sheets.
EPSON Premium Glossy Photo Paper	One sheet at a time.
EPSON Premium Semigloss Photo Paper	One sheet at a time.
EPSON ColorLife Photo Paper	One sheet at a time.
EPSON Iron-On Cool Peel Transfer Paper	One sheet at a time.

Loading Memory Cards

Loadable storage media

Digital photographs are stored either in the digital camera's built-in memory or in loadable storage media called memory cards. Memory cards can be inserted into and removed from the camera. The types of storage media that can be used with this printer are shown below.

Loadable storage media	
CompactFlash	MagicGate Memory Stick
Memory Stick	MemoryStick PRO
Microdrive	MultiMediaCard
SD Card	SmartMedia
mini SD card (must be used with an SD adaptor)	RS-MMC (must be used with an MMC adaptor)
xD-Picture Card	

L

R4CC820
short.bk   Rev. B
DBASE.FM   A5 size
7/3/03

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

> **c** *Caution:*
> *The methods for using memory cards vary according to card type.*
> *Be sure to refer to the documentation packaged with your memory*
> *card for details.*

Note:
See "Memory card data format" on page 24 for the specifications of
memory cards that can be used with the printer.

Memory card data format

You can use image files that meet the following requirements.

Digital camera	DCF version 1.0 compliant[1]
File format	JPEG format image files[2] taken with a DCF version 1.0 compliant digital camera
Image size	Vertical 120 to 4600 pixels, horizontal 120 to 4600 pixels
Number of files	Up to 999

[1]: DCF stands for the "Design rule for Camera File system" standard, set by the Japan Electronics and Information Technology Industries Association (JEITA).

[2]: Supports Exif Version 2.1/2.2.

Note:
File names containing double-byte characters are not valid when
printing directly from a memory card.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**

DBASE.FM
7/3/03

Rev. B

A5 size

R

Inserting memory cards

Turn the printer on, open the memory slot cover, then insert a
memory card as shown in the illustration. When the memory card
is inserted correctry, the memory card light corresponding to the
card comes on.

CompactFlash/
Microdrive

Memory Stick/
Memory Stick Duo/
SD Card/
MultiMediaCard/
mini SD card/
RS-MMC

SmartMedia/
xD-Picture Card

L

R4CC820 short.bk

DBASE.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name
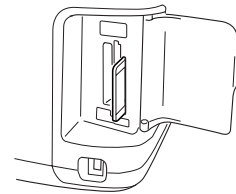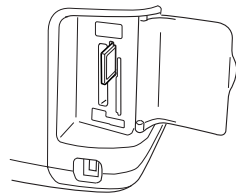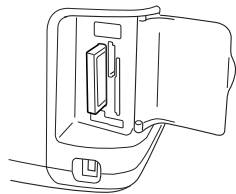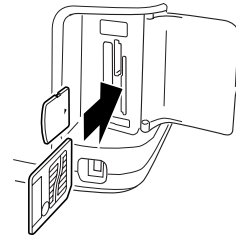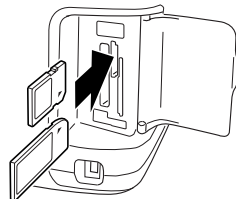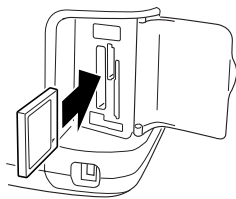
> *Caution:*
> ❏ *Insert a memory card so that the top of the card faces the right side, as shown in the illustration.*
>
> ❏ *Loading a memory card in ways other than those shown here may damage the printer, memory card, or both.*
>
> ❏ *Use only one type of memory card at a time. Eject the loaded memory card before inserting another kind of memory card.*
>
> ❏ *Do not touch the memory card while it is in operation with the printer. Doing so may produce static electricity and cause the printer to malfunction.*
>
> ❏ *Before loading the Memory Stick Duo, mini SD Card and RS-MMC attach the adapter provided with it.*

Basic Printing

This printer has two print modes, Basic and Advanced. Basic mode makes it easy to select photos, print or make copies. Advanced mode enables you to edit various settings. Refer to "Advanced Printing" on page 39.

Note:
When Basic Mode *is selected,* Paper Type, Paper Size *and* Layout *are automatically set to* Premium Grossy Photo Paper, 10 × 15 cm *and* Borderless *or* index.

Printing an index

You can print one or more copies of an index of all the photographs on a loaded memory card. An index can be helpful in selecting which photos you want to print.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
DBASE.FM   A5 size
7/3/03

R

1. Make sure that Basic Mode is selected.

89x127mm Glossy borderless

Note:
When Advanced Mode *is selected, press the*
Basic/Advanced mode switch *button, then press the* OK
button to switch to Basic Mode.

2. Make sure Select Photo is highlighted, then press the OK
    button to open the menu.

3. Press the ▼ button to select Index, then press the OK button.

89x127mm Glossy borderless

4. Make sure that 1 each is indicated as the Copies setting.

89x127mm Glossy borderless

5. Press the Print button to print the index.

L

R4CC820
short.bk
DBASE.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Single photo print

The example here is to print a single photo on the 10×15 cm size of Premium Grossy Photo Paper with Borderless and normal print quality.
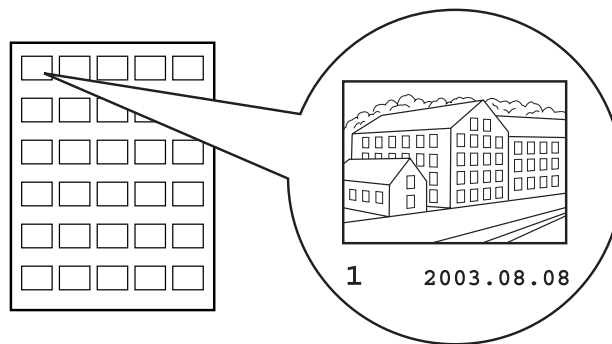
Index   Photo Number

1. From the index, find the number of the photo that you want to print. The number is printed under the photo.

2. Press the ▲ or ▼ button to select Select Photo, then press the OK button.

3. Press the ▲ button to specify the photo number that you have selected from the Index, then press the OK button.
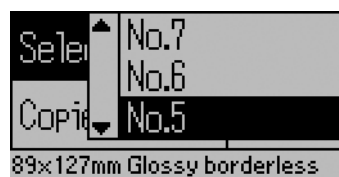
Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
DBASE.FM   A5 size
7/3/03

R

4.   Select Copies, press the OK button to open the Copies counter, select the number you want to print, then press the OK button.

```
Select P    ▲
            2 each
Copies      ▼
89x127mm Glossy borderless
```

5.   Press the Print button to print the photo.

Print all photographs on the memory card

All: Print all photographs on the memory card.

1.   Select All as the Select Photo.

```
Sele  ^ Individual
        All
Copi    Index
89x127▼
```
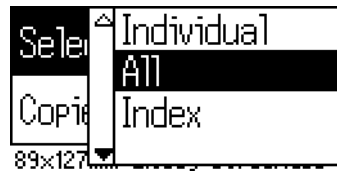
2.   Select Copies, press the OK button to open the Copies counter, select the number you want to print, then press the OK button.

Print multiple selected photographs

Individual: Print selected photographs from the memory card.

1.   Select Individual as the Select Photo.

L

R4CC820
short.bk
DBASE.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

2. Press the ▲ or ▼ button to select the photo number you want to print, then press the OK button.
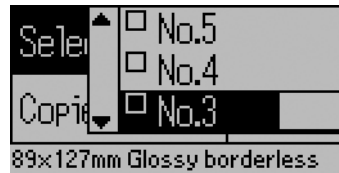
3. Press the ▲ or ▼ button to select the number of copies you want to print, then press OK button. You can choose up to 10 copies.

4. Repeat steps 2 through 3 to register other photos.

    Note:
    To reset the number of copies, select the photo and press the OK *button. The number of copies resets to 0 and the check box becomes unchecked.*

5. When you have finished selecting photos, press the Back button, then press the OK button to confirm your selections.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B

DBASE.FM   A5 size
7/3/03

R
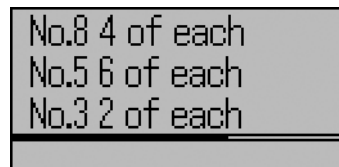
6. When the numbers of all the photos you want to print have been registered, press the Print button to print the selected photographs.

Print the DPOF data

This printer conforms to DPOF (Digital Print Order Format) version 1.10. DPOF lets you set the photo numbers and the number of copies for photos on the digital camera before you print. To create DPOF data that supports DPOF, you must use a digital camera that supports DPOF. For the details about DPOF settings, see your digital camera's documentation.

1. Load a memory card which contains DPOF data.

2. Select Select Photo, then select DPOF. The number of photos you selected on your digital camera is displayed.

```
Select Photo DPOF
Copies        0 total
89x127mm Glossy borderless
```

3. Press the Print button to start printing.

Print a range of photographs

Range: Print a range of selected photographs from the memory card.

1. Select Range as the select Photo.

L

**R4CC820
short.bk**

DBASE.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

2. Press the ▲ or ▼ button to select the number of the first photo you want to print From:, then the number of the last photo you want to print To:, then press the OK button.

3. Select the number of Copies, then press the Print button to print the selected photographs.

Print P.I.F. Index

Using P.I.F. Index is possible to print a list of the PRINT Image Framer frames stored in the memory card, when the memory card is in the printer.

1. Select P.I.F. Index from Select Photo.

2. Select the number of Copies.

3. Press the Print button to start printing.

CD/DVD Printing

This section provides information on how to use the LCD panel to print directly onto a CD/DVD, without the use of a computer. It provides step-by-step instructions on how to load the CD/DVD in the printer, how to select the print layout, and how to adjust the print settings.

Refer to the *Reference Guide* on the CD-ROM if you are printing from a computer connected to the printer.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**
DBASE.FM
7/3/03

Rev. B
A5 size

R

Loading a CD/DVD

1. Make sure that the printer is on.

2. Open the paper support, then slide out the extension.

3. Open the output tray, then open the print cover.

4. Open the CD/DVD guide. The "Switching to CD/DVD print mode" message appears when you open the CD/DVD guide, and the print settings are automatically set to those for printing onto CD/DVDs.

    Note:
    An error occurs if the CD/DVD guide is opened while the printer is printing, or if paper is loaded in the sheet feeder.

5. Insert the memory card containing the photo data you want to print into the memory card slot.

6. Load a CD/DVD into the CD/DVD tray.

7. Insert the CD/DVD tray into the CD/DVD guide.
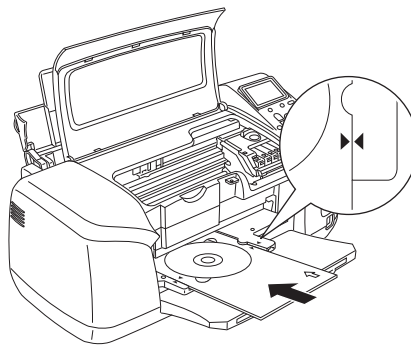
Note:
Align the arrow mark on the CD/DVD tray with the arrow mark on the CD/DVD guide.

L | **R4CC820 short.bk** | **Rev. B**
DBASE.FM
7/3/03 | A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Selecting the Layout

1. Make sure that Layout is selected in the LCD panel settings, then press the OK button.
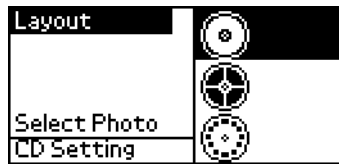
2. Press the ▼ button to select the desired layout, then press the OK button.

You can select the following layout options when printing on a CD/DVD.

	One photo will be printed on the CD/DVD, centered on the hole in the middle of the disc.
	Four photos will be printed on the CD/DVD, with one image in each of four quarters.
	12 photos will be printed on the CD/DVD, arranged in a circle around the outer edge of the disc.

Selecting the Photos to Print

1. Press the ▼ button to highlight Select Photo, then press the OK button.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**   **Rev. B**

DBASE.FM   A5 size
7/3/03

R

2. Press the ▼ button to select the desired photo, then press the OK button.

```
Layout ▲ ☐No.5
        ☐No.4
        ☐No.3
        ■No.2
Select ▽ ☐No.1
CD Set images: 0
```

3. Press the ▲ button to specify the number of prints for each photo, if you selected the 4-photo or 12-photo option for the Layout setting.

```
Layout ▲ ☐No
        ☐No      ▲
        ☐No   2 each
        ■No
Select ▽ ☐No      ▼
CD Set images: 0
```

Note:
❏ *To select more than one photo, repeat steps 2 and 3 to select other photos and the number of times to print them.*

❏ *The total number of images that will be printed is displayed at the bottom of the LCD display.*

❏ *When selecting photos for the 4-photo or 12-photo layout setting, you can select a number of images less than the total. Unused areas of the layout will be left blank.If you specify a number of images greater than will fit on one CD/DVD, the extra images will be add to a layout for an extra CD/DVD and the printer will ask you to load another CD/DVD after printing the CD/DVD.*

4. Press the Back button to return to the Layout screen, then press the Print button to print the CD/DVD.

L

R4CC820
short.bk

DBASE.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Note:

❏ *We recommend that you print a test of the layout on the dummy CD/DVD, usually included in the pack of CD/DVDs, before printing on a real CD/DVD.*

❏ *If necessary, you can adjust the print position. See "Adjusting the Print Position" on page 36 for details.*

❏ *If a message appears asking you to replace an ink cartridge or clean the print head, remove the CD/DVD tray, then press the ◊⊡ maintenance button. Follow the instructions on the LCD panel to clear the error, then reinsert the CD/DVD tray and select the photo settings again.*

Adjusting the Print Position

Follow the steps below to adjust the print position, if necessary.

1. 1.Press the ▲ or ▼ button to highlight CD Setting and press the OK button.

2. To move the image up or down; press the ▲ button to select CD/DVD Print Position Adjustment V and press the OK button.
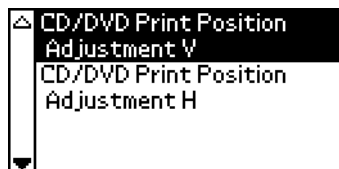
Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820 short.bk

Rev. B

DBASE.FM
7/3/03

A5 size

R

3. Press the ▲ or ▼ button to select the direction and amount to move the image, then press the OK button.

4. To move the image left or right; press the ▼ button to select CD/DVD Print Position Adjustment H and press the OK button.
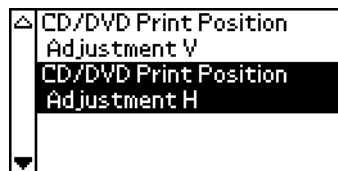
5. Press the ▲ or ▼ button to select the direction and amount to move the image, then press the OK button.

6. Press the Back button to return to the Layout screen, then press the Print button to print the CD/DVD.

Note:
The printer remembers the print adjustment setting even after it has been turned off, so you do not need to adjust the position each time you use the CD/DVD function.

L

R4CC820
short.bk

DBASE.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Adjusting the Print Density

Follow the steps below to adjust the amount of ink used when printing photos on a CD/DVD. This adjusts the depth of color in the printed image.

1. Select Color Density and press the OK button.

2. Press the ▼ button to select the desired color density and press the OK button.

Cancelling printing

To stop printing in progress, press the Stop button. The printer will cancel all print jobs, stop printing, and eject any pages that were printing. Depending on the printer's status, printing may not stop immediately.

Ejecting Memory Cards

After printing all of the jobs, eject the memory card.

1. Make sure that the memory card light is not flashing.

2. Pull the card out to eject the memory card.

> *Caution:*
> ❏ *The handling method varies depending on the storage media. Be sure to refer to the documentation packaged with your memory card for details.*
>
> ❏ *Do not remove memory cards or turn off power to the printer while printing or while the memory card light is flashing. Doing so can cause data to be lost.*

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**

DVARY.FM
7/3/03

Rev. B

A5 size

R

Various Setting

Advanced Printing

Main settings
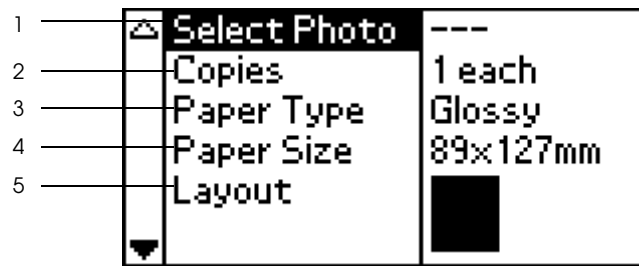
1. Select Photo

On this menu, you can select how to print data stored on a memory card.

Range	Print a range of Photographs on the memory card.
Individual	Print selected photographs from the memory card.
All	Print all photographs on the memory card.
Index	Print an index of all photographs on the memory card.
DPOF	This option is automatically displayed when a memory card contains data whose printing instruction is set with a DPOF-compatible digital camera. Even if DPOF is selected, DPOF does not work when a memory card does not contain data set by DPOF.
Photo number	Print a single, selected photograph from the memory card.

L

**R4CC820
short.bk**   **Rev. B**

DVARY.FM   A5 size
7/3/03

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

| P.I.F. Index | Print an index of the PRINT Image Framer frames stored in the memory card. |

2. Copies

Select the number of copies you want to print.

3. Paper Type

On this menu, the paper type can be selected.

Glossy	Print on EPSON Premium Glossy Photo Paper or EPSON Premium Semigloss Photo Paper.
Photo	Print on EPSON Photo Paper.
Matte	Print on EPSON Matte Paper Heavyweight.
ColorLife	Print on EPSON ColorLife Photo Paper.
Plain	Print on plain paper, EPSON Premium Ink Jet Plain Paper, or EPSON Bright White Ink Jet Paper.
Iron-on	Print on EPSON Iron-On Cool Peel Transfer Paper.

4. Paper Size

On this menu, the paper size can be selected. The print size is automatically scaled up/down depending on the combination of selected paper size and layout.

10×15 cm	Print on 10×15 cm size sheets of paper.
89×127 mm	Print on 89×127 mm size sheets of paper.
127×178 mm	Print on 127×178 mm size sheets of paper when Glossy is selected as the Paper Type setting.
A4	Print on A4 size (210×297 mm) sheets of paper.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B

DVARY.FM   A5 size
7/3/03

R

5. Layout

On this menu, the print layout can be specified.

	Borderless	Prints without margins. Portrait layout.
	Single	Prints with 3-mm margins on all sides. Portrait layout.
	Upper half	Prints in the upper half without a border.
	Double	Prints two images (landscape) on one page.
	Quarter	Prints four images (portrait) on one page.
	Octet	Prints eight images (landscape) on one page.
	20	Prints 20 images ((landscape) on one page.
	Jewel Case-Borderless	Prints to the size of a CD case without a border and with perforation lines.
	Jewel Case-Index	Prints 12 pictures on both sides of the paper to the size of CD case with perforation lines.

When Borderless printing, note the following:

❏ Printing without margins takes longer than printing with margins.

❏ Because this setting enlarges the image to a size slightly larger than the paper size, the portion of the image that extends beyond the edges of the paper will not be printed.

L

**R4CC820
short.bk**　　**Rev. B**

DVARY.FM
7/3/03

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

❏ Print quality may decline in the top and bottom areas of the printout, or the area may be smeared when printing.

❏ Before printing large jobs, print a single sheet to confirm quality.

More Options

Photo Number

When All, Range or Individual is selected as the Select Photo, this setting allows you to specify the number of the photo that you want to enhance or correct using the More Options. The default setting here is ALL, which means the settings will affect all of the photos to print.

Zoom

This setting allows you to zoom in on a specific point in a photo and print out the image. The printed region of the image is trimmed to the size of the original photo.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
DVARY.FM   A5 size
7/3/03

R

The base point can be selected from nine options: Upper Left, Center Left, Lower Left, Upper Center, Center, Lower Center, Upper Right, Center Right, and Lower Right. You can select either 1.2 or 1.5 times magnification.
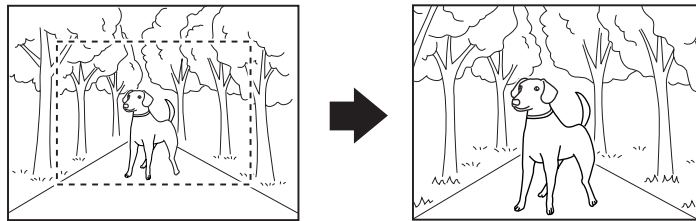
Example. Center 1.5×

Note:
❏ *It is possible to check the area to be trimmed by viewing the yellow frame in the optional Preview Monitor. See "Preview Monitor" on page 99 for details.*

❏ *When the photo is zoomed, the image may become blurry depending on the resolution of the original photo.*

Filter

This setting can be used to adjust the color tones used for printouts, by applying a filter before the photos are printed. The default setting is None.

None	No filter is applied to the printouts.
B&W	Photos are printed in grayscale, similar to a black and white photo.
Sepia	Photos are printed with a sepia tint, similar to the brown tint seen in old photographs.

L

**R4CC820
short.bk** **Rev. B**
DVARY.FM A5 size
7/3/03

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Automatic Correction

This printer is able to correct the color of printouts automatically.
There are two kinds of correction available. By default, the setting
is P.I.M.

For printing with PRINT Image Matching, see "Exif Print and
PRINT Image Matching" on page 49.

P.I.M. (PRINT Image Matching)	Print with the PRINT Image Matching function. If the photo data does not include PRINT Image Matching data, try printing with PhotoEnhance.
PhotoEnhance	Images imported from the memory card are automatically enhanced. Printing requires more time, but the image is enhanced to ensure higher picture quality.
Exif	ExifPrint function. If the Photo data does not include ExifPint data, try printing with PhotoEnhance.
None	Print without automatic correction.

Small Image Enhancer

This option can remove digital noise, or interference, from photos
and increase the resolution for small images, so that they can be
printed at larger sizes.

Note:
Images may take longer to print when this option is enabled.

Contrast

This setting can be used to adjust the contrast for printouts, which
makes light areas of the image appear lighter and dark areas
darker.

44

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
DVARY.FM   A5 size
7/3/03

R

Brightness

This setting allows you to adjust the brightness of your printouts. The default setting is Standard.

Saturation

This setting allows you to adjust the vividness of your printouts. Then default setting is Standard.

Sharpness

This setting allows you to adjust the sharpness of your printouts. The default setting is Standard.

Date

This setting is to print the date information contained in your photo data. The default setting is None.

The following examples show the format options for setting the date.

None	Does not print the date.
mmm.dd.yyyy	Dec.31.2002
dd.mmm.yyyy	31.Dec.2002
yyyy.mm.dd	2002.12.31

L

**R4CC820
short.bk**

DVARY.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Time

This setting is to print the time information contained in your photo data. The default setting is None.

The following examples show the format options for setting the time.

None	Does not print the time.
12-hour system	10:00
24-hour system	22:00

Photo Information

If your photo data contains the photo information conforms to Exif standard, the information can be printed with this setting. Following information will be printed:

Exposure time/Shutter speed (Exposure time takes precedence if both values exist. ex. 1/30s)

F number (ex. F2.8)

ISO speed rate (ex. ISO100)

The default setting is Off.

On	Prints photo information: Exposure time/Shutter speed/
Off	Does not print any photo information.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**   **Rev. B**
DVARY.FM   A5 size
7/3/03

R

Fit to Frame

This setting automatically trims the parts of an image that extend beyond the margins of the selected print size. Either the top and bottom areas or the left and right areas of the image will be trimmed, depending on the aspect ratio of the original photo and the selected print size. The default setting is On.

On	Trims the image.
Off	Does not trim the image

Resize each photo (without trimming it) so that it fits inside the print area specified on the Layout menu. Margins may appear at the left and right of the photo, depending on the print size and aspect ratio.

Quality

This setting can be used to adjust the quality of printouts. Select Super High for most high-quality printing, High for high-quality printing and Normal for high-speed printing.

Bidirectional Printing

This setting activates bidirectional printing so your printer prints both left-to-right and right-to-left. Bidirectional printing speeds up printing, but decreases print quality. By default, this setting is On.

Note:
If misaligned, vertical lines appear during bidirectional printing, you may need to align the print head. To align the print head, see "Aligning the Print Head" on page 74.

L

**R4CC820
short.bk**   **Rev. B**

DVARY.FM   A5 size
7/3/03

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Ink Cartridge Replacement

The ink cartridge can be replaced by selecting this option.
➡ See "Replacing an Ink Cartridge" on page 64

Head Cleaning

The print head can be cleaned by selecting this option.
➡ See "Cleaning the Print Head" on page 72

Nozzle Check

A nozzle check pattern can be printed by selecting this option.
➡ See "Checking the Print Head Nozzles" on page 71

Paper Feed/Paper Eject

Press the OK button in this menu, then press the OK button again
to confirm. The Paper Feed/Paper Eject function is performed.

Print Head Alignment

The print head can be aligned by selecting this option.
➡ See "Aligning the Print Head" on page 74

LCD Contrast

The contrast of the LCD panel can be adjusted by selecting this
option.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk   Rev. B**
DVARY.FM   A5 size
7/3/03

R

Memory Card Overwrite

This option sets whether or not writing from a computer to a memory card is allowed when the printer is connected to the computer. By default, the setting is Enable.

Enable	Writing to the card from computer is allowed. Writing, deleting, formatting, and creation of files/directories are possible.
Disable	Writing to the card from computer is prohibited. Writing, deleting, formatting, and creation of files/directories are not possible.

Language

The language displayed on the LCD panel can be selected with this option.

Device Name Setting/Communication mode/Encryption/Passkey Setting/Device Address

These setting are available when the optional Bluetooth Photo Print Adapter is connected to the printer.

For more details, refer to the "Using the Bluetooth Photo Printer Adapter" on page 103.

Exif Print and PRINT Image Matching

Exif Version 2.2 (also called Exif Print, an international standard for digital cameras) and PRINT Image Matching allow you to print fine-quality photographs using, in combination, a digital camera and printer that support these features.

L

R4CC820
short.bk   **Rev. B**
DVARY.FM   A5 size
7/3/03

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

```
┌──────────────────────────┐
│▲│ Layout      │  ■■■  │  │
│ │             │       │  │
│ ├─────────────┘       │  │
│ │More Options          │  │
│ │ B  Y  C LC  M LM     │  │
│ │ ▮  ▮  ▮  ▮  ▮  ▮      │  │
│▽│ ............          │  │
└──────────────────────────┘
```

✽
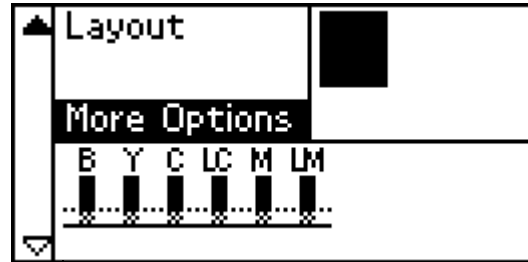
✽ The Exif and P.I.M. icons appears when the first photograph in the
memory card has PRINT Image Matching or Exif Print information and
when All, Range, Photo number and Individual selected in Select
Photo.

Effectiveness

Exif Print

When taking photographs using an Exif Print compatible digital
camera, information about camera settings and scene conditions
when the photograph was taken is embedded in the photo data.
Such information includes exposure mode, white balance, gain
control, contrast, saturation, and sharpness, among other
attributes. The printer then corrects and enhances the photo data
using this information and prints an image that reflects the
original scene captured by the digital camera.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
DVARY.FM   A5 size
7/3/03

R

PRINT Image Matching

PRINT Image Matching gives control of the printing process to the digital camera, allowing printed images to reflect the camera's distinctive qualities. When taking photographs using a PRINT Image Matching compatible digital camera, print command information from the camera is embedded in the photo data. The print command then instructs the printer how to correct color and details based on information stored at the moment the photo was taken. Digital camera settings that create the print command include the gamma, color space, color balance, shadow point, contrast, and brightness settings, among other attributes. A printer equipped with PRINT Image Matching is able to interpret these commands and faithfully reproduce the characteristics of the image captured by the digital camera.

Note:
❏ *See the relevant device instruction manual for details concerning the use of devices loaded with the PRINT Image Matching function.*

❏ *Please check with the input device manufacturer to determine whether it is loaded with the PRINT Image Matching function.*

Printing without a PC

Insert the digital camera memory card into the memory card slot, specify the image to be printed to retrieve print commands registered in the image file and print.

Exif Print and PRINT Image Matching are compatible with the media listed below.

Select from these media types when printing.

L

**R4CC820
short.bk**   **Rev. B**

DVARY.FM   A5 size
7/3/03

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Plain Paper/EPSON Premium Ink Jet Plain Paper/
EPSON Bright White Ink Jet Paper/EPSON Photo Paper/
EPSON Matte Paper-Heavyweight/
EPSON Premium Glossy Photo Paper/
EPSON Premium Semigloss Photo Paper/
EPSON ColorLife Photo Paper

Note:
*Refer to the digital camera's documentation to find out whether the
camera is Exif Print and/or PRINT Image Matching compatible.*

DPOF Settings

This printer conforms to DPOF (Digital Print Order Format)
version 1.10. DPOF lets you set the photo numbers and the
number of copies for photos on the digital camera before you
print. To create DPOF compliant data, you must use a digital
camera that supports DPOF. For the details about DPOF settings,
see your digital camera's documentation.

1. Load paper and a memory card which contains DPOF data.
    Select Photo turns into DPOF as soon as you load the
    memory card. To exit DPOF mode, select the other settings as
    the Select Photo.

2. Make Paper Type, Paper Size, and Layout settings. The copies
    menu shows the number of sheets of paper required for the
    selected layout.

    Note:
    *Page Layout setting is not available when the DPOF settings are
    for an Index print.*

3. Press the Print button to start printing.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B

DVARY.FM   A5 size
7/3/03

R

PRINT Image Framer

1. Insert the memory card containing digital photo data and
    PRINT Image Framer data into the printer's card slot. If you
    have saved or deleted data on the memory card via your
    computer and have not ejected the memory card from the
    printer since, eject and reinsert the memory card before
    printing.

    Note:
    Be sure to properly save the PRINT Image Framer data which named
    "\EPUDL\AUTOLOAD.USD" to the memory card using the
    EPSON PRINT Image Framer Tool; otherwise the P.I.F. icon and
    "AUTOLOAD" will not appear on the printer's LCD panel.

2. Select All, Range, Photo number and Individual from the
    Select Photo menu. Index cannot be used with PRINT Image
    Framer data.

3. Select the type of paper loaded in the printer from the Paper
    Type menu.

4. Select the size of paper loaded in the printer from the Paper
    Size menu. Be sure the size of paper loaded matches that
    specified for the PRINT Image Framer data. The paper sizes
    available in the Paper Size menu change according to the
    Paper Type selected, therefore with certain types of paper the
    size appropriate for the PRINT Image Framer data may not
    be listed.

L

R4CC820 short.bk

DVARY.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

5. Select the desired PRINT Image Framer data from the Layout menu. The PRINT Image Framer data file is displayed. PRINT Image Framer data is located at the bottom of the Layout menu.
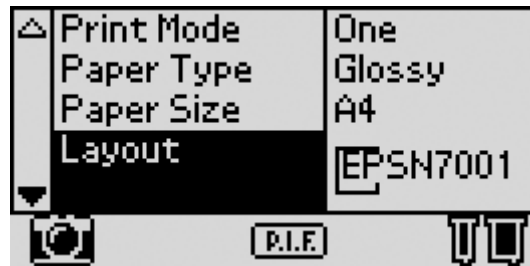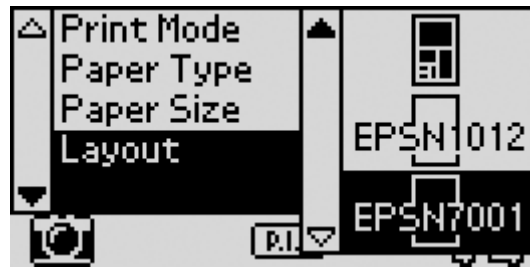
Note:
You can view PRINT Image Framer layout images on the optional Preview Monitor. The printer's LCD panel does not display PRINT Image Framer layout images.

6. Specify the photos that you want to print and the number of copies of each using the Select Photo and Copies menus.

7. Press the Print button to start printing.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   **Rev. B**
DVARY.FM   A5 size
7/3/03

R

Digital Camera Direct Printing

This printer features the USB DIRECT-PRINT and PictBridge
functions, which enables you to print photos directly from a
digital camera that also has the USB DIRECT-PRINT function, by
connecting the camera to the printer with a USB cable.

Adjusting settigs Operations before connecting

Adjusting settings on the digital camera

It is necessary to perform the following operations on the digital
camera before connecting it to the printer. For more details on the
operation of the digital camera, refer to its manual.

❏ Select the photo you want to print.

❏ Select the paper size and type you want to use.

❏ Select the appropriate layout setting.

❏ Select any other printing settings. (Settings will be different,
depending on the make of your digital camera.)

Note:
❏ *Depending on the make of your digital camera, some of the options*
above may not be available.

❏ *If the options above are not available on the digital camera, make the*
selections on the printer's LCD panel. For more details, see
"Adjusting settings on the printer's LCD panel" on page 55.

Adjusting settings on the printer's LCD panel

If the operations to be performed before connecting are not
available on the digital camera, peform them on the printer's
control panel.

L

R4CC820 short.bk   **Rev. B**

DVARY.FM
7/3/03

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

1. Select All, Range, Photo number and Individual from the Select Photo menu.

2. Make the desired Paper Type, Paper Size, and Layout settings.

3. Change the More Options if necessary.

Connecting the digital camera to the printer

Note:
❏ *Do not print from the computer or from a memory card inserted in the printer's memory card slot before or while a digital camera is connected to the printer.*

❏ *Do not backup before or while a digital camera is connected to the printer.*

❏ *Make sure that the no error has occured before a digital camera is connected to the printer.*

❏ *Your printer does not function as a USB hub; even if you connect one computer to the front-side USB connector and another to the back-side USB connector, they will not be able to communicate with one another via the printer.*

❏ *Your printer has two USB connectors, one on the front and one on the back. Although you can connect a USB cable to either, Epson recommends that you use the front-side USB connector for connecting the digital camera or a portable computer and the back-side USB connector for connecting a desktop computer.*

> **Caution:**
> *Do not connect the same device to both of the printer's USB connectors; use only one USB connection per device. Otherwise, you may encounter problems with printing.*

1. Connect the USB cable to the digital camera.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**   **Rev. B**

DVARY.FM   A5 size
7/3/03

R

2. Connect the USB cable to the printer's external device USB connector.

3. Turn on the digital camera if it is turned off.

   The massage "A digital camera has been connected." appears for one second on the LCD panel when the connection is established.

Printing

Print from the digital camera. For more details on printing from the digital camera, refer to its manual.

Note:
When printing is finished, disconnect the USB cable from the printer if you will be inserting a memory card into the printer's memory card slot.

Canceling printing

On the digital camera

For more details canceling printing from the digital camera, refer to its manual.

On the printer's LCD panel

Press the Stop button on the printer's control panel.

Storing and Loading the Settings

You can store the settings on the LCD panel you use frequently to each of Custom buttons and load the stored settings easily by pressing the Custom buttons.

L

R4CC820
short.bk
DVARY.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

You can store the following settings:

❏ Select Photo

❏ Paper Type

❏ Paper Size

❏ Layout

❏ Filter in More Options

❏ Small Image Enhancer in More Options

❏ Brightness in More Options

❏ Saturation in More Options

❏ Sharpness in More Options

❏ Contrast in More Options

❏ Automatic Correction in More Options

Note:
❏ *This function is not available in Basic Mode.*

❏ *You cannot store or load the settings or restore stored settings when an error occurs, when printing the nozzle check pattern or cleaning the print head or replacing the ink cartridge and aligning the print head.*

❏ *You can store the settings for* Filter, Brightness, Saturation, Contrast *and* Sharpness *when* All *is set as* Photo Number *in* More Options.

Follow the steps below to store the settings on the LCD panel to the Custom buttons.

1. Make the settings that you want to use.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk   Rev. B**

DVARY.FM   A5 size
7/3/03

R

2. Press the Custom button for more than two seconds. The message "The present settings have been saved" is displayed in the LCD panel.

To you restore stored settings, press the Custom button for more than two seconds.

The message "Custom settings will be used." is displayed in the LCD panel.

Backup

Press the Direct Save button, it is possible to store the contents of a memory card in an external storage device, such as an MO (magneto-optical) drive, Zip® drive, or CD-R/RW drive, by connecting it to the printer.

Note:
❏ *The media must have enough free space for backup.*

❏ *The media must have only one partition.*

❏ *You cannot back up while printing from the computer to the printer.*

❏ *Do not connect the external storage device while the computer is accessing the memory card in the printer.*

❏ *The message "Cannot recognize the loaded media." is displayed on the LCD panel if the storage media is not formatted for DOS or Windows. Follow the instructions on the LCD panel to format the storage media.*

❏ *The available MO disk capacities are 128, 230, and 640 MB.*

❏ *The available Zip disk capacities are 100 and 250 MB.*

❏ *You can back up 512 times to one storage medium except CD-R.*

L

R4CC820 short.bk   **Rev. B**

DVARY.FM
7/3/03

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

❏ *The available CD-R capacities are 640 and 700 MB.*

❏ *The media except CD-R must be formatted for DOS or Windows.*

❏ *The format for writing to CD-R is Multisession (Mode 1) and the file system is ISO 9660. Due to the ISO 9660 file system, the contents of a memory card that has 8 or more folder levels cannot be backed up to CD-R.*

❏ *The characters that can be used for folder and file names on the CD-R are capitals and the underscore (_). Other characters are changed to underscores when backing up to CD-R.*

❏ *One session is created with each backup when backing up to CD-R.*

❏ *You can back up up to 47 times to one CD-R.*

Connect the external storage device to the printer and operate according to the instructions displayed on the LCD panel. To learn more about connecting an external storage device, see "Connecting an external device" on page 61.

> **Caution:**
> *Do not remove the storage media from the external storage device or disconnect the cable from the printer while backing up.*

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820 short.bk

DVARY.FM
7/3/03

Rev. B

A5 size

R

Printing with an External Device

Connecting an external device

> ⚠️ *Caution:*
> ❑ *Not all of the devices that can be connected with USB cable are supported. Contact your regional customer support for details.*
>
> ❑ *Do not connect USB devices other than an external storage device, such as a printer or mouse. The printer may fail.*
>
> ❑ *Do not connect the external storage device while the computer is accessing the memory card inserted in the printer.*

Note:
❑ *A USB cable is necessary in order to connect the printer with the external storage device.*

❑ *Use a USB cable of 2 meters or less.*

❑ *A USB hub cannot be used.*

❑ *Even if the printer is connected to a computer, the computer cannot recognize the external storage device.*

L

**R4CC820
short.bk**

DVARY.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Insert the USB cable to the external device USB connector and insert the other connector into the external storage device.
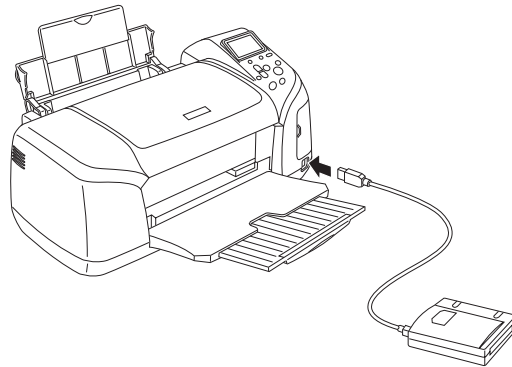
Printing from an external device

1. Insert a medium that contains photo data into the external storage device.

2. If a memory card has been inserted in the memory card slot, remove it.

   Note:
   ❏ *If a memory card is inserted in the memory card slot, the printer does not recognize the external storage device; it prints out the photo data in the memory card.*

   ❏ *Select the folder in which the photo data you want to print out is registered using the Folder Selection menu if data in the external storage device has been backed up using the backup function of the printer. The Folder Selection menu is displayed when data in the external storage device is recognized and pressing the* Back *button.*

3. Set the individual items using the same procedure as when printing from a memory card, and perform printing.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   **Rev. B**
INK.FM   A5 size
7/3/03

R

Replacing Ink Cartridges

Checking the Ink Supply

Using the LCD panel

To check which cartridge requires replacing, check the LCD panel. Press the ▲ or ▼ buttons to scroll the screen until More Options appears. The ink icons appear beneath More Options on the LCD panel.
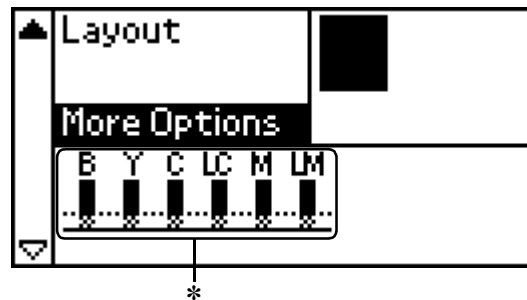
✻ ink icon

Ink icon indicates the amount of the ink remaining as follows:

Ink icon	Status
☐ blinks	Ink cartridge is empty. Replace with a new one.
☐ and ☐ blinks	Ink cartridge is nearly empty.
▉ comes on	Ink remaining

L

R4CC820 short.bk

INK.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Replacing an Ink Cartridge

This printer uses ink cartridges equipped with IC chips. The IC chip accurately monitors the amount of ink used by each cartridge, so even if a cartridge is removed and later reinserted, all of its ink can be used. However, some ink is consumed each time the cartridge is inserted because the printer automatically checks reliability.

You can replace an ink cartridge using the printer's control panel . Refer to the appropriate section below for instructions.

> *Warning:*
> ❏ *Keep ink cartridges out of the reach of children. Do not allow children to drink from or otherwise handle the cartridges.*
>
> ❏ *Be careful when you handle the used ink cartridges, as there may be some ink around the ink supply port. If ink gets on your skin, wash the area thoroughly with soap and water. If ink gets into your eyes, flush them immediately with water. If discomfort or vision problems remain after a thorough flushing, see a doctor immediately.*

> *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.*
>
> ❏ *Do not refill the ink cartridges. The printer calculates the amount of ink remaining using an IC chip on the ink cartridge. Even if the cartridge is refilled, the amount of ink remaining will not be recalculated by the IC chip and the amount of ink available for use will not change.*

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**   **Rev. B**

INK.FM
7/3/03

A5 size

R

Note:

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

❏ *In addition to the ink used during document printing, ink is consumed during the print head cleaning operation, during the self-cleaning cycle which is performed when the printer is turned on, and during ink charging when the ink cartridge is installed in the printer.*

❏ *You can check which cartridge needs replacing with the LCD panel. See "Using the LCD panel" on page 63 for detail.*

For more information about ink cartridges.
➡ See "When handling the ink cartridges" on page 11

Using the printer's control panel buttons

1. Make sure that the printer is on, but not printing, then open the paper support and the printer cover.

   Note:
   ❏ *Make sure the CD/DVD tray is not inserted in the printer before you replace the ink cartridge.*

   ❏ *To check the ink Levels, press the ▼ button to scroll to the next screen. The ink part of the ink icon displayed in the LCD panel flashes when the ink runs low. When the ink runs out, the entire ink icon flashes and a message is displayed.*

2. Check that the message "ink out" is displayed in the LCD panel and press the maintenance button. This message is not displayed if there is some ink left. In this case, press the maintenance button, make sure Ink Cartridge Replacement is selected, and press the OK button. To find out which cartridge requires replacing, see "Checking the Ink Supply" on page 63.

L

**R4CC820
short.bk**
INK.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

3. Follow the instructions on the screen and press the OK button. The ink cartridge moves slowly to the ink replacement position.
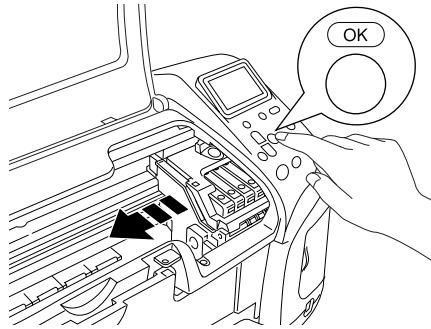
> ⚠️ *Caution:*
> *Do not move the print head by hand, as this may damage the printer. Always press the OK button to move it.*

4. Remove the new ink cartridge from the package.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B

INK.FM   A5 size
7/3/03

R

> **Caution:**
> ❏ *Be careful not to break the hooks on the side of the ink cartridge when you remove it from the package.*
>
> ❏ *Do not remove or tear the label on the cartridge; otherwise, ink will leak.*
>
> ❏ *Do not touch the green IC chip on the front of the cartridge. This can damage the ink cartridge.*
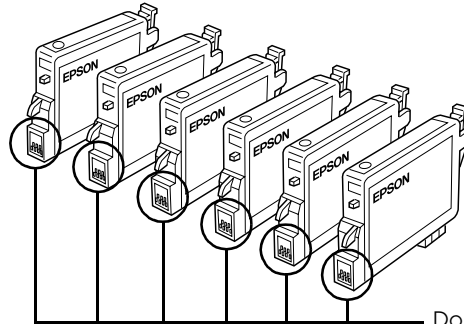
Do not touch this part.

> ❏ *If you remove an ink cartridge for later use, be sure to protect the ink supply area from dirt and dust; store it in the same environment as the printer. Be sure to store the cartridge as shown in the illustration. Note that there is a valve in the ink supply port, making covers or plugs unnecessary, but care is needed to prevent the ink from staining items that the cartridge touches. Do not touch the ink supply port or surrounding area.*
>
> ❏ *Be sure to always install an ink cartridge into the printer immediately following the removal of the current ink cartridge. If the ink cartridge is not installed promptly, the print head may dry out, rendering it unable to print.*

L

**R4CC820
short.bk**
INK.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

5. Open the cartridge cover. Pinch the sides of the ink cartridge that you want to replace. Lift the cartridge out of the printer and dispose of it properly. Do not take the used cartridge apart or try to refill it.
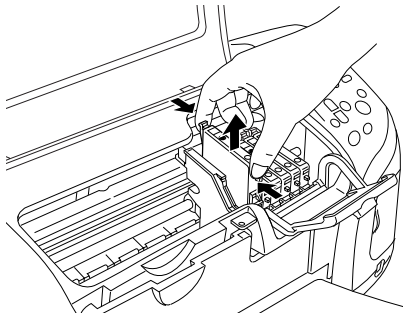
The illustration shows replacement of the black ink cartridge.

> ⚠ *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. If discomfort or vision problems continue after a thorough flushing, see a doctor immediately.*

6. Place the ink cartridge vertically into the cartridge holder. Then, push the ink cartridge down until it clicks into place.
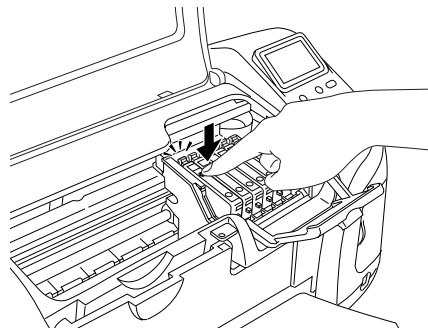
7. When you are finished replacing the cartridge, close the cartridge cover and the printer cover.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**
INK.FM
7/3/03

Rev. B
A5 size

R

8. Press the OK button. The print head will move and begins charging the ink delivery system. When the ink charging process is finished, the print head will return to its home position.
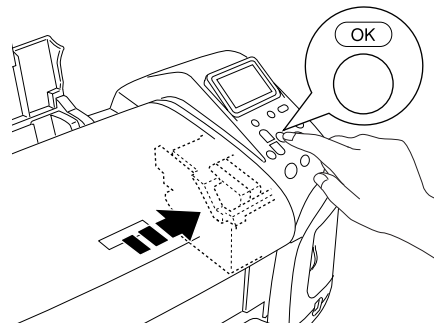
⚠ *Caution:*
The progress meter is displayed in the LCD panel while the ink is being charged. Never turn the power supply to the printer off before the completion message is displayed. Doing so can result in incomplete charging of ink.

9. When the message "Ink cartridge replacement is complete" is displayed in the LCD panel, press the OK button.

Note:
If the ink end error occurs after the print head moves to its home position, the ink cartridge may not be installed properly. Press the ♦☐ maintenance button again, and reinstall the ink cartridge until it clicks into place

L

**R4CC820
short.bk**

INK.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**   **Rev. B**
CHECK.FM   A5 size
7/3/03

R

Improving Print Quality

Checking the Print Head Nozzles

If you find that the printout is unexpectedly faint or that dots are missing, you may be able to identify the problem by checking the print head nozzles.

Note:
❏ *You cannot clean the print head if the message "ink out" is displayed or the ink icon flashes to show ink out or ink low on the LCD panel. Replace the appropriate ink cartridge first.*

❏ *Make sure the CD/DVD tray is not inserted in the printer and the CD/DVD guide is up before using the Nozzle check utility.*

Using the control panel buttons

Follow the steps below to check the print head nozzles using the control panel buttons.

1. Check that no warnings or errors are displayed on the LCD panel.

2. Make sure that A4 or Letter size paper is loaded in the sheet feeder.

3. Press the ◊⊿ maintenance button.

4. Press the ▼ button to position the cursor at Nozzle Check and press the OK button.

5. Follow the instructions displayed in the LCD panel and press the OK button.

L

**R4CC820
short.bk**
CHECK.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

6. The nozzle check pattern is printed out. See the following
    illustration. If it is necessary to clean the print head, press the
    OK button to clean the print head.

The printer will print an operation check page that includes a
nozzle check pattern. Below are sample printouts.

Good sample
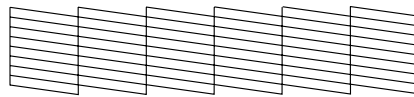
Print head needs to be cleaned
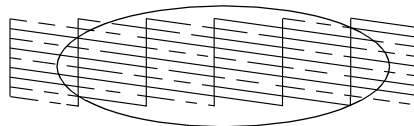
Segments are missing

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

If the nozzle check page does not print satisfactorily (for example,
if any segment of the printed lines is missing), there is a problem
with the printer. This could be a clogged ink nozzle or a
misaligned print head.
See the next section for details on cleaning the print head.

Cleaning the Print Head

If you find that the printout is unexpectedly faint or that dots are
missing, you may be able to solve these problems by cleaning the
print head, which ensures that the nozzles are delivering ink
properly.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk   Rev. B**
CHECK.FM   A5 size
7/3/03

R

Note:

❏ *Print head cleaning consumes some ink. To avoid wasting ink, clean the print head only if print quality declines; for example, if the printout is blurry or the color is incorrect or missing.*

❏ *Use the Nozzle Check utility first to confirm that the print head needs to be cleaned. This saves ink.*

❏ *You cannot clean the print head if the message "ink out" is displayed or the ink icon flashes to show ink low on the LCD panel. In case of ink out, the ink cartridge replacement procedure will start. If you do not want to replace an ink cartridge at this moment, press* Stop *button to return the print head to its home position.*

❏ *Make sure the CD/DVD tray is not inserted in the printer before using the Head Cleaning utility.*

Using the control panel buttons

Follow the steps below to clean the print head using the control panel buttons.

1. Check that no warnings or errors are displayed on the LCD panel.

2. Press the ◊·ᢙ maintenance button.

3. Press ▼ button to position the cursor at Head Cleaning and press the OK button.

    Caution:
    Never turn the power supply to the printer off while the progress meter is displayed in the LCD panel. Doing so may damage the printer.

4. Follow the instructions displayed in the LCD panel and press the OK button.

L

**R4CC820
short.bk**
CHECK.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

5. The print head cleaning starts.

Note:
❏ *If print quality has not improved after repeating this procedure four or five times, turn the printer off and leave it alone overnight. Then, do the nozzle check again, and repeat the head cleaning if necessary.*

❏ *If the print quality still has not improved, at least one of your ink cartridges may be old or damaged and may need to be replaced.*
➡ *See "Replacing an Ink Cartridge" on page 64 to replace an ink cartridge before it is empty.*

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

❏ *To maintain print quality, we recommend printing a few pages at least once every month.*

Aligning the Print Head

If you notice a misalignment of vertical lines or horizontal banding, you may be able to solve this problem from the LCD panel.

Note:
❏ *Do not press the stop button to cancel printing while printing a test pattern with the Print Head Alignment utility.*

❏ *Make sure the CD/DVD tray is not inserted in the printer and the CD/DVD guide is up before using the Print Head Alignment utility.*

Using the control panel buttons

Follow the steps below to align the print head using the control panel buttons.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
CHECK.FM   A5 size
7/3/03

R

1. Check that no warnings or errors are displayed on the LCD panel.

2. Press the ◊⋳ maintenance button.

3. Press ▼ button to position the cursor at Print Head Alignment and press the OK button.

4. Follow the instructions displayed on the LCD panel and press the OK button. The following alignment sheet is printed.
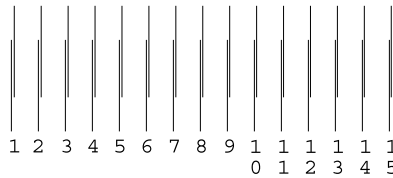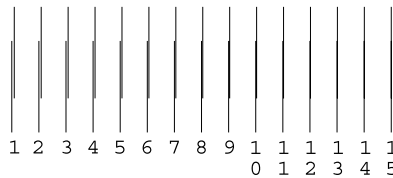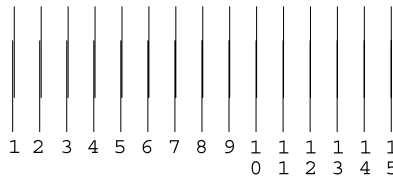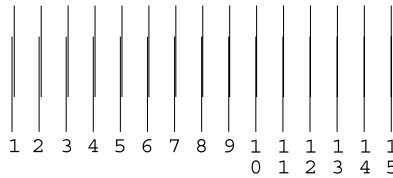
```
||||||||||||||||
1 2 3 4 5 6 7 8 9 1 1 1 1 1 1
                0 1 2 3 4 5
```

```
||||||||||||||||
1 2 3 4 5 6 7 8 9 1 1 1 1 1 1
                0 1 2 3 4 5
```

```
||||||||||||||||
1 2 3 4 5 6 7 8 9 1 1 1 1 1 1
                0 1 2 3 4 5
```

```
||||||||||||||||
1 2 3 4 5 6 7 8 9 1 1 1 1 1 1
                0 1 2 3 4 5
```

L

R4CC820
short.bk
CHECK.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

5.   From the alignment pattern in set #1 on the printed test sheet, choose the vertical line that is aligned best. Press the ▲ or ▼ button to select the corresponding line number and press the OK button.

6.   Repeat step 5 for the alignment patterns in sets #2 and #3.

7.   Press the OK button to finish.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
UPDT.FM   A5 size
7/3/03

R

Cleaning the Printer

To keep your printer operating at its best, clean it thoroughly several times a year as follows.

1. Unplug the printer's power cord.

2. Remove any paper from the sheet feeder.

3. Use a soft brush to carefully clean away all dust and dirt from the sheet feeder.

4. If the outer case or the inside of the sheet feeder is dirty, wipe it with a soft, clean cloth dampened with mild detergent. Keep the printer cover closed to prevent water from getting inside.

5. If the inside of the printer accidentally gets soiled with ink, wipe it off with a damp cloth.

6. If ink have leaked inside the printer, wipe the inside of the printer with a soft, clean cloth.

Wipe here
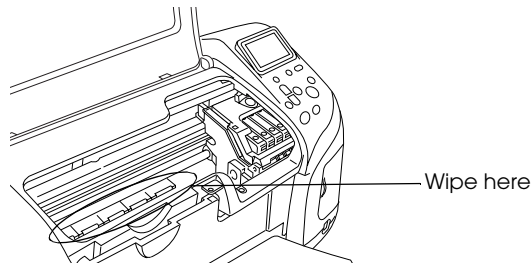
⚠ *Warning:*
Be careful not to touch the gears or rollers inside the printer.

L

**R4CC820
short.bk**
UPDT.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

> **Caution:**
> ❏ *Do not apply grease to the metal parts under the print head carriage.*
>
> ❏ *Never use alcohol or thinner to clean the printer, as these chemicals can damage the components as well as the case.*
>
> ❏ *Be careful not to get water on the printer mechanism or electronic components.*
>
> ❏ *Do not use a hard or abrasive brush.*
>
> ❏ *Do not spray the inside of the printer with lubricants. Unsuitable oils can damage the mechanism. Contact your dealer or a qualified service person if lubrication is needed.*

Transporting the Printer

If you need to transport your printer, carefully prepare and repack it as described below using the original box (or a similar box that the printer fits snugly into) and packing materials. Follow the steps below.

> **Caution:**
> ❏ *When storing or transporting the printer, do not tilt it, stand it up vertically, or turn it upside down. Otherwise, ink may leak from the cartridge.*
>
> ❏ *Leave the ink cartridges installed. Removing the cartridges can dehydrate the printer head and may prevent the printer from printing.*

1. Plug in the printer, then turn on the printer. Wait until the print head returns to the home position, then close the printer cover. Turn off the printer, and then unplug the printer.

2. Disconnect the interface cable from the printer.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
UPDT.FM   A5 size
7/3/03

R

3. Remove the paper from the sheet feeder and remove the paper support.

4. Open the printer cover again. Secure the ink cartridge holder to the printer with the protective material and tape as shown below, then close the printer cover.
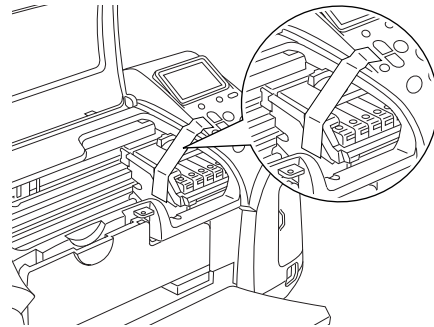
5. Close the CD/DVD guide if it is open. Raise the output tray, close the printer cover and the paper support.

6. Attach the protective materials to both sides of the printer.

7. Repack the printer and power cord in the original box.

8. Keep the printer level during transport.

9. Be sure to remove the protective materials and tape from the printer before using it again.

L

R4CC820
short.bk

UPDT.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

L

R4CC820
short.bk

UPDT.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk** **Rev. B**

TRBLE.FM
7/3/03

A5 size

R

Troubleshooting

The solutions herein are for problems when printing directly from a memory card.

Error/Warning Display

You can identify many common printer problems using the display on your printer's LCD panel.

Error

Display	Solution
Ink out. Black: T0491 Cyan: T0492 Magenta: T0493 Yellow: T0494 Light Cyan: T0495 Light Magenta: T0496 The genuine Epson ink cartridges listed above are recommended for replacement.	Replace the ink cartridges shown, with a new ones.
Paper is not set correctly. Set the paper correctly, then press ◊◁ maintenance button.	Load paper in the sheet feeder, and press the ◊◁ maintenance button to turn this light off. The printer resumes printing.

L | **R4CC820 short.bk** | **Rev. B**

TRBLE.FM
7/3/03

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

A paper jam has occurred. See your printer's documentation for information about cleaning the jam.	Press the ◊⊿ maintenance button to eject the jammed paper. See "The paper jams" on page 88 for details.
Ink cartridges cannot be recognized. 　Black: T0491 　Cyan: T0492 　Magenta: T0493 　Yellow: T0494 　Light Cyan: T0495 　Light Magenta: T0496 The genuine Epson ink cartridges listed above are recommended for replacement.	Reinstall the cartridge shown.
Service required. Parts inside your printer are at the end of their service life. See your printer's documentation for details	Contact your dealer.
Multi-page feed error Multiple pages have been fed into the printer at once, or the wrong paper size has been fed into the printer. Remove and reload the paper, then press the ◊⊿ maintenance button.	Remove and reload the paper, then press the ◊⊿ maintenance button.
Close the CD/DVD guide.	Close the CD/DVD guide, the n press the ◊⊿ maintenance button. If the CD/DVD tray is inserted, remove the CD/DVD tray, then close the CD/DVD guide.
The CD/DVD tray is not set correctly. Reload the tray, then press the ◊⊿ maintenance button.	Reload the CD/DVD tray, then press the ◊⊿ maintenance button.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B

TRBLE.FM   A5 size
7/3/03

R

The inserted card cannot be used with this printer.	Use a compatible and formatted memory card.
System error. Press and hold the Power and Stop button for 7 seconds to turn off the printer.	Turn the printer off, and, after a few seconds, turn it on again. If the error is not cleared, contact your dealer.

Error	Display	Other
Ink low	Ink icon blinks	Obtain a replacement ink cartridge.
Printing from computer[1]	Communicating with computer. Please wait.	Start printing from the LCD panel after printing from the computer is completed.
Irregular external device.[2]	The connected device cannot be used.	Connect on external storage device that is compatible with the printer.

[1] This warning appears when the Print button is pushed, and it disappears after three seconds.

[2] This warning is displayed for one second every 3 seconds.

Print Quality Problems

Horizontal banding

❑ Make sure that the printable side of the paper is face up in the sheet feeder.

L

**R4CC820
short.bk**
TRBLE.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

❏ Run the Head Cleaning utility to clear any clogged ink
   nozzles.
   ➡ See "Cleaning the Print Head" on page 72

❏ Run the Print Head Alignment utility.
   ➡ See "Aligning the Print Head" on page 74

❏ Use up ink cartridges within six months after opening their
   packages.

❏ Use the genuine Epson ink cartridges.

❏ Check the LCD panel. If the ink icon is flashing or a message
   is displayed, replace the appropriate ink cartridge.
   ➡ See "Replacing an Ink Cartridge" on page 64

❏ Make sure that the Media Type selectedin the LCD panelis
   appropriate for the type of media loaded in the printer.

Vertical misalignment or banding

❏ Make sure that the printable side of the paper is face up in the
   sheet feeder.

❏ Run the Head Cleaning utility to clear any clogged ink
   nozzles.
   ➡ See "Cleaning the Print Head" on page 72

❏ Run the Print Head Alignment utility.
   ➡ See "Aligning the Print Head" on page 74

❏ Make sure that the Media Type selectedin the LCD panelis
   appropriate for the type of media loaded in the printer.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk** **Rev. B**

TRBLE.FM
7/3/03

A5 size

R

Incorrect or missing colors

❏   Run the Head Cleaning utility.
➡ See "Cleaning the Print Head" on page 72

If colors are still incorrect or missing, replace the color ink
cartridge. If the problem persists, replace the black ink
cartridge.
➡ See "Replacing an Ink Cartridge" on page 64

❏   If you have just replaced an ink cartridge, make sure the date
on the box has not expired. Also, if you have not used the
printer for a long time, replace with new ink cartridges.
➡ See "Replacing an Ink Cartridge" on page 64

Blurry or smeared printout

❏   Use only paper recommended by Epson.
➡ See "Paper" on page 111

❏   Use genuine Epson ink cartridges.

❏   Make sure that the printer is on a flat, stable surface that
extends beyond the printer base in all directions. The printer
will not operate properly if it is tilted.

❏   Make sure that your paper is not damaged, dirty, or too old.

❏   Make sure that your paper is dry and that the printable side
is facing up.

❏   If the paper is curled toward the printable side, flatten it or
curl it slightly in the opposite direction.

❏   Make sure that the Media Type setting in your LCD panelis
correct.

L

**R4CC820
short.bk**

TRBLE.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

❏ Remove each sheet from the output tray as it is printed, especially if you are using transparencies.

❏ If you are printing on glossy mediaor transparencies, place a support sheet (or a sheet of plain paper) beneath the stack, or load only one sheet at a time.

❏ Do not touch or allow anything to come into contact with the printed side of transparencies or paper with a shiny finish. After printing documents on transparencies or glossy media, allow the ink to set for a few hours before handling them.

❏ Run the Head Cleaning utility.
➡ See "Cleaning the Print Head" on page 72

❏ Run the Print Head Alignment utility.
➡ See "Aligning the Print Head" on page 74

Printout Problems Not Related to Print Quality

Blank pages print

❏ Run the Head Cleaning utility to clear any clogged nozzles.
➡ See "Cleaning the Print Head" on page 72

Printout has smears

❏ If the paper is curled toward the printable side, flatten it or curl it slightly in the opposite direction.

❏ Load and eject dry paper several times. If the problem persists, ink may have leaked inside the printer. In this case, wipe the inside of the printer with a soft, clean cloth.
➡ See "Cleaning the Printer" on page 77

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**   **Rev. B**

TRBLE.FM   A5 size
7/3/03

R

Paper Does Not Feed Correctly

Paper does not feed

Remove the stack of paper and make sure of the following:

❏ The CD/DVD tray is not inserted in the printer and CD/DVD guide is up when printing on paper.

❏ 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 paper is not loaded higher than the trianguler load-limit mark on the edge guide.

❏ The paper stack fits under the tabs inside the edge guides.

❏ Paper is not jammed inside the printer. If it is, remove the jammed paper.
➡ See "The paper jams" on page 88

❏ The ink cartridges are not empty. If one is, replace the appropriate cartridge.
➡ See "Replacing an Ink Cartridge" on page 64

❏ Special loading instructions that came with your paper have been followed. Load the paper again.

➡ See "Loading Single Sheets of Paper" in the online *Reference Guide*

L

**R4CC820
short.bk**   **Rev. B**

TRBLE.FM
7/3/03

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Multiple pages feed

❏ Make sure that the paper stack is flush with or lower than the triangular load-limit mark on the edge guide.

❏ Make sure that the paper stack fits under the tabs inside the edge guides.

❏ Make sure that the left edge guide is snug to the left edge of the paper.

❏ Make sure that the paper is not curled or folded. If so, flatten it or curl it slightly toward the opposite side before loading.

❏ Remove the stack of paper and make sure that the paper is not too thin.
➡ See "Paper" on page 111

❏ Fan the edges of the stack to separate the sheets, then reload the paper.

The paper jams

Press the ⬦⬩ maintenance button to eject the jammed paper. If the error does not clear, turn the printer off, open the paper support and the printer cover. then remove all of the paper inside, including any torn pieces. Then, make sure the CD/DVD tray is not inserted in the printer and the CD/DVD guide is up. Reload the paper, then press the ⬦⬩ maintenance button to resume printing.

Note:
If you cannot remove a foreign object easily by yourself, do not use force and do not disassemble the printer. Call your dealer for assistance.

If your paper jams frequently, make sure of the following:

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B

TRBLE.FM   A5 size
7/3/03

R

❏ The paper is smooth, not curled or wrinkled.

❏ The paper is of high quality.

❏ The printable side of the paper is face up in the sheet feeder.

❏ The paper stack was fanned before loading.

❏ The paper is not loaded above the triangular load-limit mark
on the left edge guide.

❏ The paper stack fits under the tabs inside the edge guides.

❏ The number of sheets in the paper stack does not exceed the
limit specified for that media.

"Loading capacities for Epson special media" on page 449

❏ The left edge guide is adjusted to fit your paper.

❏ The printer is on a flat, stable surface that extends beyond the
printer base in all directions. The printer will not operate
properly if it is tilted.

Paper improperly loaded

If you have loaded the paper too far into the printer, the printer
cannot feed the paper correctly. Turn the printer off and gently
remove the paper. Then turn the printer on and reload the paper
properly.

L

**R4CC820
short.bk**   **Rev. B**

TRBLE.FM   A5 size
7/3/03

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Paper is not ejected fully or is wrinkled

❏ If the paper does not eject fully, press the ◊·🗐 maintenance button, then open the printer cover and remove the paper. Also, check the Paper Size setting in the LCD panel.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.

Printer Does Not Print

LCD panel is off

❏ Press the ⏻ power button to make sure that the printer is on.

❏ Turn off the printer and make sure that the power cord is securely plugged in.

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

Only the LCD panel is on

❏ Turn off the printer. Make sure that the printer's interface cable is securely plugged in.

❏ Make sure that there is no packing material in the printer.

❏ If the printer sounds like it is trying to print, but is unable to, run the Head Cleaning utility.
➡ See "Cleaning the Print Head" on page 72

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
TRBLE.FM   A5 size
7/3/03

R

If this does not work, replace the ink cartridges.
➡ See "Replacing an Ink Cartridge" on page 64

LCD panel displays a warning or error message

If the LCD panel displays a warning or error message, follow the instructions. See "Error/Warning Display" on page 81 for the explanation of warnings and error messages.

LCD panel came on and then went out

The printer's voltage may not match the outlet rating. Turn off the printer and unplug it immediately. Then, check the printer labels.

> *Caution:*
> *If the voltage does not match, DO NOT PLUG YOUR PRINTER BACK IN. Contact your dealer.*

Maintenance light is flashing or on

Try one or more of these solutions:

❏ Make sure that there is no packing material in the printer.

❏ If the printer sounds like it is trying to print, but is unable to, run the Head Cleaning utility. See "Cleaning the Print Head" on page 72.

❏ If the ◊·⊡ maintenance light is on and paper is jammed in the printer, remove the paper from the printer.

❏ If the ◊·⊡ maintenance light is on and no paper is loaded, load more paper in the sheet feeder.

L

**R4CC820
short.bk**   **Rev. B**

TRBLE.FM   A5 size
7/3/03

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

❏ If the ◊·⊡ maintenance light is flashing, ink is low. Obtain a
replacement cartridge of the appropriate type. To determine
which cartridge is low, see "Replacing an Ink Cartridge" on
page 64.

❏ If the ◊·⊡ maintenance light is on and ink is out, replace the
appropriate ink cartridge.

Print Head Carriage Problem

If the carriage cover does not close or the print head carriage does
not move to its home position, open the carriage cover and push
the ink cartridges down until they click into place.
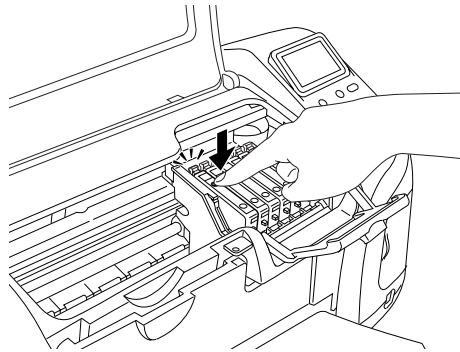
Printing Problem when Using Bluetooth Photo Print Adapter

If you are having difficulties using your printer with the Bluetooth
Photo Print Adapter, see the following:
➡ See "Using the Bluetooth Photo Printer Adapter" on page 103

Cancelling Printing

If you encounter problems while printing, you may need to cancel printing.

To stop printing in progress, press Stop button. The printer will cancel all print jobs and stop printing, and eject any pages which is printing. Depending on the printer's status, printing may not stop immediately.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**   **Rev. B**

SPPORT.FM   A5 size
7/3/03

R

Contacting Customer Support

Technical Support Web Site

EPSON's Technical Support Web Site provides help with problems that cannot be solved using the troubleshooting information in your product's documentation. If you have a Web browser and can connect to the Internet, access that site at:

http://support.epson.net/StylusPhotoR310

Regional Customer Services

If your EPSON product is not operating properly and you cannot solve the problem using the troubleshooting information in your product documentation, contact customer support services for assistance. If customer support for your area is not listed below, contact the dealer where you purchased your product.

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

❏ Product serial number
(The serial number label is usually on the back of the product.)

❏ Product model

❏ Product software version
(Click About, Version Info, or similar button in the product software.)

❏ Brand and model of your computer

❏ Your computer operating system name and version

L | **R4CC820 short.bk** | **Rev. B**
SPPORT.FM
7/3/03 | A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

❏ Names and versions of the software applications you normally use with your product

Note:
For more information on Contacting Customer Support, see the Online Reference Guide included in the software CD-ROM.

Note for users in the Middle East, Scandinavia, and South Africa:
Some of these services may be available in English only.

For users in North America

URL	http://support.epson.com
Telephone	(562)276-1300 (U.S.) (905)709-9475 (Canada)

For users in the United Kingdom and the Republic of Ireland

URL	http://www.epson.co.uk	
Telephone	UK	08701 637 766
	The Republic of Ireland	01 679 9016

For users in the Middle East

URL	http://www.epson.com
Telephone	+971 4 352 4488
Fax	+971 4 351 6617
Email	epson_support@compubase.co.ae

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
SPPORT.FM
7/3/03

A5 size

R

For users in Scandinavia

URL	http://www.epson.com	
Telephone	Denmark	80 88 11 27
	Finland	0800 523 010
	Norway	800 11 828
	Sweden	08 445 12 58

For users in South Africa

URL	http://www.epson.co.za
Telephone	(011) 444-5223 or 0800 600 578

For users in Australia

URL	http://www.epson.com.au
Telephone	1300 361 054
Fax	(02) 9903 9189

For users in Singapore

URL	http://www.epson.com.sg
Telephone	(65) 6586 3111

For users in Thailand

URL	http://www.epson.co.th
Telephone	(66)2-670-0333

L

**R4CC820
short.bk**   **Rev. B**

SPPORT.FM
7/3/03

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

For users in Indonesia

URL	http://www.epson.co.id	
Telephone/Fax	Jakarta	(62) 21-62301104
	Bandung	(62) 22-7303766
	Surabaya	(62) 31-5479541
	Medan	(62)61-4516173
Telephone	Yogyakarta	(62) 274-566353/22-143

For users in Hong Kong

URL	http://www.epson.com.hk
Phone	(852) 2585-4399
Fax	(852) 2827-4383

For users in Malaysia

URL	http://www.epson.com.my
Phone	603-56288333

For users in India

URL	http://www.epson.co.in
Phone	1600 440011

For users in the Philippines

URL	http://www.epson.com.ph
Phone	(63) 2-813-6567
Fax	(63) 2-813-6545
E-mail	customersupport@epc.epson.com.ph

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
OPTN.FM   A5 size
7/3/03

R

Options and Consumable Products

Options

The options below are available for your printer.

Preview Monitor

When printing directly from a memory card, the Preview Monitor
C860✽✽✽ lets you easily find and view photos on the memory
card. It also allows you to preview the layout of photos after
making layout settings on the printer's LCD panel.

Option: 2.5-inch monitor

! *Caution:*
   *Be sure to turn off your printer and unplug the printer's power
   cord before attaching or removing the Preview Monitor. Failure
   to do so can damage the Preview Monitor.*

Note:
❏ *The asterisk (✽) is a substitute for the last digit of the product
   number, which varies by location.*

❏ *To adjust the tilt of the Preview Monitor, loosen the knob on the
   right side of the Preview Monitor.*

L

R4CC820
short.bk　　　**Rev. B**
OPTN.FM　　　A5 size
7/3/03

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

❏ *A 1.6-inch monitor is also available for this printer.*
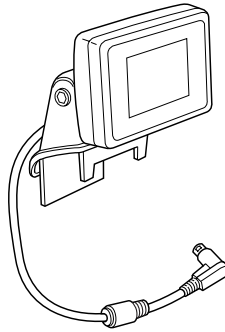
Bluetooth Photo Print Adapter

The optional Bluetooth Photo Print Adapter is a wireless communication module used to print from digital still cameras, digital video cameras, PDAs, Mobile PCs, and other devices that support Bluetooth wireless technology without cables when connected to the printer.

Bluetooth unit C824✽✽✽

Note:
The asterisk is a substitute for the last digit of the product number, which varies by location.

➡ See "Using the Bluetooth Photo Printer Adapter" on page 103

Consumable products

The following ink cartridges and Epson special media are available for your printer.

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
OPTN.FM   A5 size
7/3/03

R

Ink cartridges

You can use the following cartridges with your printer.

Type of ink	Product numbers of ink
Black ink cartridge	T0491
Color ink cartridge 　Cyan 　Magenta 　Yellow 　Light Cyan 　Light Magenta	 T0492 T0493 T0494 T0495 T0496

Note:
The product numbers of ink cartridges may vary by location.

Media Types

Epson offers specially designed media for ink jet printers to meet
most high-quality printing needs.
➡ See "Media type settings" on page 121

Note:
❏ *The availability of special media varies by location.*

❏ *For the latest information on media available in your area, contact
EPSON customer support web site.*
　➡ *See "Contacting Customer Support" on page 95*

L

**R4CC820
short.bk**
OPTN.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk** **Rev. B**
BLUE.FM   A5 size
7/3/03

R

Using the Bluetooth Photo Printer Adapter

About the Bluetooth Photo Print Adapter

The optional Bluetooth Photo Print Adapter is a wireless communication module used to print from digital cameras and other devices with Bluetooth wireless technology without cables when connected to the printer.

Up to 10 m
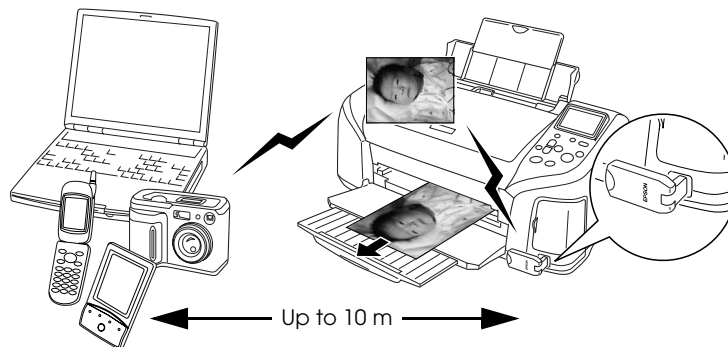
Note:
❏ *While this product complies with the Bluetooth Specification, it is not guaranteed to work with all devices enabled with Bluetooth wireless technology.*

❏ *The communication range of this product is approximately 10 meters; however, this may vary depending on conditions including obstacles between devices; signal quality; magnetic fields; static electricity and electromagnetic interference; software; operating system; reception sensitivity; and antenna performance.*

Available Profile

Basic Imaging Profile (BIP)

L

**R4CC820
short.bk**
BLUE.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Connecting and Disconnecting the Bluetooth Photo Print Adapter

Connecting

1. Turn off the printer.

   > **Caution:**
   > *Do not connect this product while the printer is on.
   > Doing so may cause the printer to malfunction.*

2. Insert the Adapter connector into the external device USB connector as shown below.
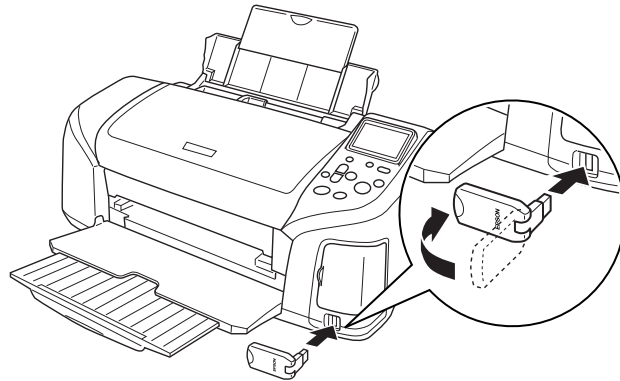
3. Turn on the printer. The Adapter's light comes on.

Disconnecting

1. Turn off the printer.

   > **Caution:**
   > *Do not disconnect this product while the printer is on.
   > Doing so may cause the printer to malfunction.*

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk

BLUE.FM
7/3/03

Rev. B

A5 size

R

2. Remove the Adapter's connector from the external device USB connector as shown below.
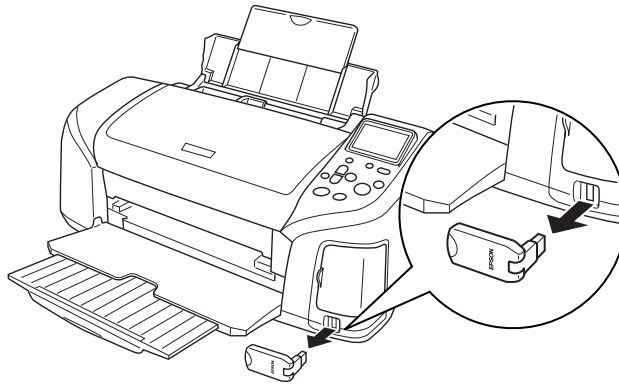
> **!** **Caution:**
> *Do not remove this product by pulling on its upper section.*
> *Doing so may damage the product.*

Bluetooth Settings

Use the LCD panel on the printer to make settings for Bluetooth wireless communication.

L

**R4CC820
short.bk**

BLUE.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Outline of settings

Setting	Choices	Description
Device Name Setting	printer name-(number) (Default = 0)	If multiple printers enabled with Bluetooth are in the same communication range, distinguish them by assigning each a number from 0 through 9. To make the Device Name Setting take effect, turn the printer off and then back on.
Communication Mode	Public	This mode allows devices enabled with Bluetooth to freely discover the printer and print.
	Private	This mode prevents unknown devices from discovering the printer. To print in Private mode, first search for the printer once in Public mode. After your device has discovered the printer in Public mode once, it will subsequently be able to communicate with and print from it in Private mode.
	Bonding	This mode requires that the four-digit Passkey be entered into a device before it can communicate with and print from the printer.
Encryption	On/Off (Default = Off)	Select On to encrypt communication. Encryption requires that the four-digit Passkey be entered into a device before it can communicate with and print from the printer.
Passkey Setting	Any four-digit number (Default = 0000)	The Passkey Setting allows you to set the four-digit Passkey that must be entered into a device before printing if Bonding is selected as the Communication Mode or if Encryption is On.
Device Address	Set at the factory (Example) 11-11-11-11-11-11	Displays the unique Bluetooth Device Address of the printer.

Making settings

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**

BLUE.FM
7/3/03

Rev. B

A5 size

R

1. Connect the Bluetooth Photo Print Adapter to your printer. Refer to "Connecting and Disconnecting the Bluetooth Photo Print Adapter" on page 104.

    > *Caution:*
    > *Be sure to turn off the printer before connecting this product. Otherwise, the printer may malfunction.*

2. Press the ▲ or ▼ button to highlight More Options, and then press the OK button.
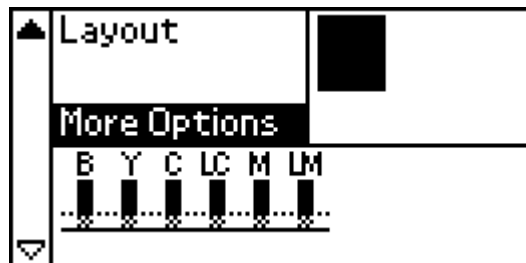
3. Use the ▼ or ▲ buttons and the OK button to make the desired settings. Refer to "Outline of settings" on page 106 for information about Bluetooth settings.

L

**R4CC820
short.bk**

BLUE.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

The Bluetooth Passkey Setting (Bluetooth PIN)

If you select Bonding as the Communication Mode or On as the Encryption setting, the Passkey must be entered into a Bluetooth wireless-capable device before it can communicate with and print from the printer. The default Passkey is 0000.

To change the Passkey, follow the instructions below. A Passkey of 1234 is used as an example.

1. Press the ▲ or ▼ button to highlight More Options, then press the OK button.

2. Press the ▲ or ▼ button to highlight Passkey Setting, then press the OK button.

```
▲ Memory Card Overwrite
  BT Device Name Setting
  BT Communication Mode
  BT Encryption
  BT Passkey Setting
▽ BT Device Address
```

3. Press the ▲ or ▼ button to select a number for the first digit, then press the OK button.

```
▲ Memory Card Overwrite
  BT De        ▲      tting
  BT Co        1      lode
  BT En
  BT Pa        ▼      g
▽ BT De   0 0 0 0
```

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
BLUE.FM   A5 size
7/3/03

R
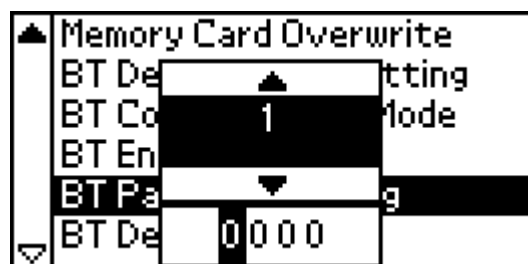
4. Select numbers for the second through fourth digits in the
    same manner.

    Note:
    To go back to a previous digit, highlight Back *and then press the*
    OK *button.*

5. When Apply appears, press the OK button to activate the
    Passkey.

Printing

Print settings are made using both the printer's LCD panel and
the device sending the print job. Refer to the following table to
determine where to make each setting.

Mode	Print Setting	Setting Location
Basic	Select Photo	Bluetooth Wireless-capable device
	Copies	Printer's LCD Panel
Advanced	Select Photo	Bluetooth Wireless-capable device
	Copies	Printer's LCD Panel
	Paper Type	
	Paper Size	
	Layout	

L

R4CC820
short.bk   **Rev. B**
BLUE.FM   A5 size
7/3/03

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Note:
The settings available may vary among Bluetooth wireless-capable
devices. For more information, refer to your device's documentation.

For more information about printing from Bluetooth
wireless-capable digital still cameras, digital video cameras,
PDAs, mobile PCs and other Bluetooth wireless-capable device,
refer to the documentation for both the device and the printer.

Troubleshooting

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
SPEC.FM   A5 size
7/3/03

R

Printer Specifications

Printer Specifications

Printing

Printing method	On-demand ink jet
Nozzle configuration	Monochrome (black) 90 nozzles
	Color (cyan, magenta, yellow, light cyan, light magenta) 450 nozzles (90 × 5 colors)

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.

L

**R4CC820
short.bk**

SPEC.FM
7/3/03

Rev. B

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Paper specifications

Single sheets:

Size	A4 (210 × 297 mm)
	A5 (148 × 210 mm)
	Letter (216 × 279 mm)
	Half letter (139.7 × 215.9 mm)
	Legal (216 × 356 mm)
	Executive (184.2 × 266.7 mm)
	10 × 15 cm
	5 × 7" (127 × 178 mm)
	3.5 × 5" (89 × 127 mm)
Paper types	Plain bond paper, special paper distributed by Epson
Thickness (for plain bond paper)	0.08 to 0.11 mm (0.003 to 0.004 inch)
Weight (for plain bond paper)	64 g/m² (17 lb) to 90 g/m² (24 lb)

Envelopes:

Size	No. 10 (104.8 × 241 mm)
	DL (110 × 220 mm)
	C6 (114 × 162 mm)
	132 × 220 mm
Paper types	Plain bond paper, air mail
Thickness	0.16 to 0.52 mm (0.006 to 0.02 inch)
Weight	45 g/m² (12 lb) to 75 g/m² (20 lb)

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   **Rev. B**
SPEC.FM   A5 size
7/3/03

R

Index Cards:

Size	A6 (105 × 148 mm)
	8 × 10″ (203 × 254 mm)
	5 × 8″ (127 × 203 mm)
Paper types	Special paper distributed by Epson

Iron-On Cool Peel Transfer Paper:

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

Photo Quality Glossy Film:

Size	A4 (210 × 297 mm)
	Letter (216 × 279 mm)
	A6 (105 × 148 mm)
Paper types	Special paper distributed by Epson

Self Adhesive Sheets:

Size	A4 (210 × 297 mm)
Paper types	Special paper distributed by Epson

Matte Paper Heavyweight:

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

L

**R4CC820
short.bk** **Rev. B**

SPEC.FM
7/3/03

A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Photo Paper:

Size	A4 (210 × 297 mm)
	Letter (216 × 279 mm)
	Panoramic (210 × 594 mm)
	10 × 15 cm
	4 × 6" (102 × 152 mm) No perforations
	4 × 6" (113.6 × 175.4 mm)
	216 × 338 mm
Paper types	Special paper distributed by Epson

Premium Glossy Photo Paper:

Size	Letter (216 × 279 mm)
	A4 (210 × 297 mm)
	5 × 7" (127 × 178 mm)
	8 × 10" (203 × 254 mm)
	10 × 15 cm
Paper types	Special paper distributed by Epson

Premium Semigloss Photo Paper:

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

ColorLife Photo Paper:

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

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B
SPEC.FM   A5 size
7/3/03

R

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 (59 to 77° F)
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 (59 to 86° F)
Humidity 20 to 60% RH

❏ *The preset paper sizes available in the printer driver range from 3.5 ×5" (89 ×127 mm) up to A4 (210 ×297 mm) or Letter (8.5 ×11") size.*

Printable area

Single sheets (including panoramic size) and index cards

Normal   Borderless

Envelopes

L

**R4CC820
short.bk**
SPEC.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name
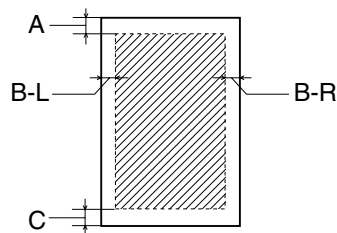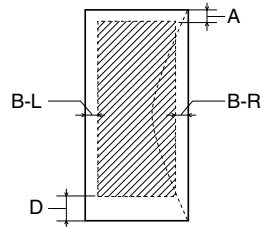
Diagonal lines show printable area.

A: The minimum top margin is 3.0 mm (0.12").

       When loading multiple sheets of EPSON Photo
       Quality Glossy Film, the minimum top margin is
       30.0 mm (1.2").

B-L: The minimum left margin is 3.0 mm (0.12").

B-R: The minimum right margin is 3.0 mm (0.12").

C: The minimum bottom margin is 3.0 mm (0.12") for
       single sheets (including panoramic size) and index
       cards.

D: The minimum bottom margin is 20 mm (0.78") for
       envelopes.

Note:
*Depending on the type of media being used, print quality may
decline in the top and bottom areas of the printout, or the area may
be smeared.*

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**   **Rev. B**

SPEC.FM   A5 size
7/3/03

R

Ink Cartridges

Black (T0491)
Cyan (T0492)
Magenta (T0493)
Yellow (T0494)
Light Cyan (T0495)
Light Magenta (T0496)

Color	Black. Cyan, Magenta, Yellow, Light Cyan and Light Magenta
Cartridge life	Within 6 months of opening the package, at 25°C (77°F)
Temperature	Storage: -20 to 40°C (-4 to 104°F) 1 month at 40°C (104°F) Transit: -30 to 50°C (-22 to 122°F) 120 hours at 60°C (140°F) Freezing:* -17°C (1.4°F)
Dimensions	12.7 mm (W) × 73.5 mm (D) × 55.3 mm (H)

* Ink thaws and is usable after approximately 3 hours at 25°C (77°F).

L | **R4CC820 short.bk** | **Rev. B**
SPEC.FM
7/3/03 | A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

> c *Caution:*
> ❏ *Epson recommends the use of original Epson ink cartridges only. Products not manufactured by Epson may cause damage to your printer and will not be covered by Epson's warranties.*
>
> ❏ *Do not use an ink cartridge if the date on the package has expired.*
>
> ❏ *Do not refill the ink cartridge. The printer calculates the amount of ink remaining using an IC chip on the ink cartridge, so even if the cartridge is refilled, the IC chip will report that it is empty.*

Mechanical

Paper path	Sheet feeder, rear entry
Sheet feeder capacity	About 100 sheets at 64 g/m² (17 lb) paper
Dimensions	Storage Width: 492 mm (19.4 inches) Depth: 290 mm (11.4 inches) Height: 228 mm (9 inches)
	Printing Width: 492 mm (19.4 inches) Depth: 595 mm (23.4 inches) Height: 310 mm (12.2 inches)
Weight	6.4 kg (14.1 lb) without the ink cartridges

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820 short.bk
SPEC.FM
7/3/03

Rev. B
A5 size

R

Electrical

	120 V Model	**220-240 V Model**
Input voltage range	99 to 132 V	198 to 264 V
Rated frequency range	50 to 60 Hz	
Input frequency range	49.5 to 60.5 Hz	
Rated current	0.45 A (Max. 0.55 A)	0.25 A (Max. 0.3 A)
Power consumption	Approx. xxx W (ISO10561 Letter Pattern) Approx. xxx W in Sleep mode	

Note:
Check the label on the back of the printer for the voltage of your printer.

Environmental

Temperature	Operation: 10 to 35°C (50 to 95°F)
	Storage: -20 to 60°C (-4 to 140°F)
	1 month at 40°C (104°F)
	Transit:* -20 to 60°C (-4 to 140°F)
	120 hours at 60°C (140°F)
Humidity	Operation: 20 to 80% RH
	Storage:*,** 5 to 85% RH

* Stored in a shipping container

** Without condensation

L

R4CC820
short.bk
SPEC.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Built-in card slots

Card Slots	CF Type II card slot	Compatible with "CF+ and CompactFlash Specification 1.4"
	SmartMedia card slot	Compatible with "SmartMedia Standard 2000"
	Memory Stick/MemoryStick PRO card slot	Compatible with "Memory Stick Standard version 1.3"
	SD/MMC card slot	Compatible with "SD Memory Card Specifications / PART1. Physical Layer Specification Version 1.0" Compatible with "MultiMediaCard Standard"
	xD-Picture card Slot	xD-Picture card™ Card Specification Version 1.00
Compatible memory cards	CompactFlash SmartMedia* Memory Stick MemoryStick PRO Memory Stick Duo** MagicGate Memory Stick Microdrive SD (Secure Digital)Card MultiMediaCard mini SD card (must be used with an SD adapter) RS-MMC (must be used with an MMC adapter) xD-Picture Card	
Voltage Requirements	3.3 v Maximum current is 500 mA	

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk**   **Rev. B**

SPEC.FM   A5 size
7/3/03

R

*   Maximum capacity is 128 MB.

**   Adapter required.

Media type settings

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

Refer to the corresponding media type under which it is grouped (shown in larger type). For some media, there are several Media Type settings from which to choose.

L

**R4CC820
short.bk**   **Rev. B**

SPEC.FM   A5 size
7/3/03

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Plain Paper

Plain paper

Envelopes

EPSON Premium Ink Jet Plain Paper (A4)	S041214
EPSON Bright White Ink Jet Paper (A4)	S041442

360 dpi Ink Jet Paper

EPSON 360 dpi Ink Jet Paper (A4)	S041059 S041025
EPSON 360 dpi Ink Jet Paper (Letter)	S041060 S041028
EPSON Iron-On Cool Peel Transfer Paper (A4)	S041154
EPSON Iron-On Cool Peel Transfer Paper (Letter)	S041153 S041155

Photo Quality Ink Jet Paper

EPSON Photo Quality Ink Jet Paper (A4)	S041061 S041026
EPSON Photo Quality Ink Jet Paper (Letter)	S041062 S041029
EPSON Photo Quality Ink Jet Paper (Legal)	S041067 S041048
EPSON Photo Quality Ink Jet Cards (A6)	S041054
EPSON Photo Quality Ink Jet Cards ($5 \times 8''$)	S041121
EPSON Photo Quality Ink Jet Cards ($8 \times 10''$)	S041122
EPSON Photo Quality Self Adhesive Sheets (A4)	S041106
EPSON Ink Jet Note Cards A6 (with envelopes)	S041147

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

R4CC820
short.bk   Rev. B

SPEC.FM   A5 size
7/3/03

R

| EPSON Ink Jet Greeting Cards 5 × 8″ (with envelopes) | S041148 |
| EPSON Ink Jet Greeting Cards 8 × 10″ (with envelopes) | S041149 |

L

**R4CC820
short.bk**
SPEC.FM
7/3/03

Rev. B
A5 size

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Matte Paper Heavyweight

EPSON Matte Paper Heavyweight (A4)	S041256
	S041258
	S041259
EPSON Matte Paper Heavyweight (Letter)	S041257

Photo Paper

EPSON Photo Paper (A4)	S041140
EPSON Photo Paper (Letter)	S041141
EPSON Photo Paper (4 × 6″)	S041134
EPSON Photo Paper (4 × 6″ No Perforations)	S041458
EPSON Photo Paper (10 × 15 cm)	S041255
EPSON Photo Paper (200 × 300 mm)	S041254
EPSON Panoramic Photo Paper (210 × 594 mm)	S041145
EPSON Photo Paper Cards (A4)	S041177

Premium Glossy Photo Paper

EPSON Premium Glossy Photo Paper (A4)	S041287
	S041297
	S041285
EPSON Premium Glossy Photo Paper (Letter)	S041286
EPSON Premium Glossy Photo Paper (5 × 7″)	S041464
EPSON Premium Glossy Photo Paper (8 × 10″)	S041465
EPSON Premium Glossy Photo Paper (10 × 15 cm)	
EPSON Premium Semigloss Photo Paper (A4)	S041332
EPSON Premium Semigloss Photo Paper (Letter)	S041331
EPSON Premium Semigloss Photo Paper (4 inch × 26 feet)	S041329

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

**R4CC820
short.bk** **Rev. B**

SPEC.FM
7/3/03

A5 size

R

ColorLife Photo Paper

EPSON ColorLife Photo Paper (A4)   S041560

EPSON ColorLife Photo Paper (Letter)   S041500

Photo Quality Glossy Film

EPSON Photo Quality Glossy Film (A6)   S041107

EPSON Photo Quality Glossy Film (A4)   S041071

EPSON Photo Quality Glossy Film (Letter)   S041072

External Storage Devices

External Storage Devices

Connectivity	Universal Serial Bus*
	Bit rate: 12 Mbps (Full speed device)
	Connector type: USB Series A
	Recommended cable length: 2 meters
Power supply	Maximum current is 500 mA.

* Not all USB devices are supported. Contact your regional customer support for details.

L

**R4CC820
short.bk**   **Rev. B**
SPEC.FM   A5 size
7/3/03

Proof Sign-off:
M.Koike CRE Nakano
M.Otsuka
editor name

Standards and Approvals

U.S. model:

Safety	UL 60950 CSA No.60950
EMC	FCC Part 15 Subpart B Class B CSA C108.8 Class B

European model:

Low Voltage Directive 73/23/EEC	EN 60950
EMC Directive 89/336/EEC	EN 55022 Class B
	EN 55024
	EN 61000-3-2
	EN 61000-3-3

Australian model:

EMC	AS/NZS 3548 Class B