EPSON Stylus CX5400 Parts

Paper support

Feeder guard   Scanner lid

Control panel

Transportation lock

Document table

Output tray and extension

Paper thickness lever

Scanner

Ink cartridges

Accessories

Ink Cartridges

Cartridge	Part number
Black	T0321
Cyan	T0422
Magenta	T0423
Yellow	T0424

Media

Paper name	Size	Part number
EPSON Premium Bright White Ink Jet Paper	Letter	S041586
EPSON Photo Quality Ink Jet Paper	Letter	S041062
	A4 (8.3 x 11.7 inches)	S041061
	Legal	S041067
EPSON Photo Quality Ink Jet Cards	A6 (4.1 x 5.8 inches)	S041054
EPSON Photo Paper or Glossy Photo Paper	4 x 6 inches, with perforated edges	S041134 S041671
	Letter	S041141 S041272 S041271 S041649
	A4 (8.3 x 11.7 inches)	S041140
EPSON Matte Paper Heavyweight	Letter	S041257
	8 x 10inches	S041467
EPSON Double-Sided Matte Paper	Letter	S041568
EPSON Premium Semigloss Photo Paper	Letter	S041331
EPSON Ink Jet Transparencies	Letter	S041064
EPSON DURABrite® Ink Glossy Photo Paper	Letter	S041606
	4 x 6 inches	S041734

Specifications

Printing

Printing method   On-demand ink jet

Nozzle configuration

    Black   180 nozzles

    Color   177 nozzles (59 nozzles per color $\times$ 3)

Print direction   Bidirectional with logic seeking

Resolution   Up to 5760 $\times$ 1440 on various papers using Photo RPM

Buffer   64KB

Paper

| Paper type	Size	Paper types	Thickness	Weight
Single sheets	Letter (8.5 × 11 inches) Legal (8.5 × 14 inches) Half letter (statement, 5.5 × 8.5 inches) Executive (7.5 × 10 inches) A4 (210 × 297 mm) A5 (148 × 210 mm)	Plain bond paper, special papers distributed by EPSON, and various types of special media	0.003 to 0.004 inch (0.08 to 0.11 mm) for plain bond paper	17 to 24 lb (64 to 90 g/m^2)
Envelopes	No. 10, 9.5 × 4.1 inches (240 × 104 mm) DL, 8.7 × 4.3 inches (220 × 110 mm) C6, 4.4 × 6.4 inches (114 × 162 mm) 132 × 220 mm	Plain bond paper or air mail paper	0.006 to 0.02 inch (0.16 to 0.52 mm)	12 to 20 lb (45 to 75 g/m^2)
Ink jet cards	A6 (105 × 148 mm)	Special papers distributed by EPSON	—	—
Photo Paper and Glossy Photo Paper	Letter (8.5 × 11 inches) A4 (210 × 297 mm) 4 × 6 inches (102 × 152 mm) Panoramic (210 × 594 mm)	Special papers distributed by EPSON	—	—
Ink Jet Transparencies, Premium Semigloss Photo Paper	Letter (8.5 × 11 inches)	Special papers distributed by EPSON	—	—
Matte Paper Heavyweight, Double-Sided Matte Paper, and Archival Matte Paper	Letter (8.5 × 11 inches) 8 × 10 inches (203 × 254 mm)	Special papers distributed by EPSON	—	—
DURABrite Ink Glossy Photo Paper	Letter (8.5 × 11 inches) 4 × 6 inches (102 × 152 mm)	Special papers distributed by EPSON	—	—

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.

Poor quality paper may reduce print quality and cause paper jams and 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: 59 to 77 °F (15 to 25 °C)
                                               Humidity: 40 to 60% RH

Printable Area

Single
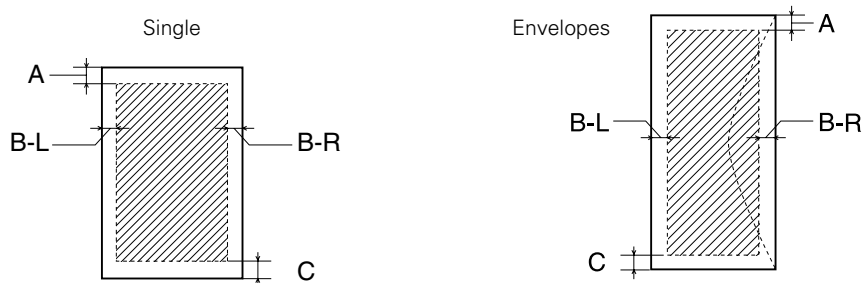
Envelopes

	Standard sheets	Sheets copied with small margin setting	Envelopes
A: top margin	0.12″ (3.0 mm)	0.06″ (1.5 mm)	0.12″ (3.0 mm)
B-L: left margin	0.12″ (3.0 mm)	0.06″ (1.5 mm)	0.12″ (3.0 mm)
B-R: right margin	0.12″ (3.0 mm)	0.06″ (1.5 mm)	0.12″ (3.0 mm)
C: bottom margin	0.12″ (3.0 mm)	0.06″ (1.5 mm)	0.78″ (20 mm)

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

Depending on the type of paper, the print quality may deteriorate in the top and bottom areas of the printout, or these areas may be smeared. Before printing large jobs using an extended margin setting, print a single sheet to confirm printout quality.

Ink Cartridges

Specification	Black ink cartridge (T0321)	Color ink cartridges (T0422, T0423, T0424)
Color(s)	Black	Cyan, Magenta, Yellow
Print capacity*	1240 pages (A4, ISO/IEC 10561 Letter Pattern at 360 dpi, 3.5% duty); 870 pages (A4, 360 dpi, 5%duty)	420 pages (A4, 360 dpi, 5% duty each color)
Cartridge life	2 years from production date (if unopened) or within 6 months after opening package, at 77 °F (25 °C)	
Storage temperature	–4 to 104 °F (–20 to 40 °C) 1 month at 104 °F (40 °C)	
Transit temperature	–22 to 140 °F (–30 to 60 °C) 1 month at 104 °F (40 °C) 120 hours at 140 °F (60 °C)	
Freezing temperature**	3.2 °F (–16 °C)	–0.4 °F (–18 °C)
Dimensions	0.8 × 2.8 × 2.6 inches (W × D × H) 22 × 71.2 × 66.5 mm (W × D × H)	0.5 × 2.8 × 2.6 inches (W × D × H) 12.7 × 71.2 × 66.5 mm (W × D × H)

*   The figure given is based on continuous printing after ink replacement. The actual print capacity may vary. The ink charging process reduces the print capacity of the initial cartridge, even though it contains the standard amount of ink.

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

Caution:
To ensure good results, use genuine EPSON cartridges and do not refill them. Other products may cause damage to your printer not covered by EPSON's warranties.

Don't use an ink cartridge if the date on the package has expired.

Do not refill the ink cartridge. An IC chip on the cartridge calculates the amount of remaining ink based on the initial supply. Adding ink does not increase the amount available for use.

Scanning

Scanner type	Flatbed color image scanner
Photoelectric device	Color CCD line sensor
Effective pixels	10,200 × 14,040 pixels at 1200 dpi, 100%
Document size	8.5 × 11.7 inches (216 × 297 mm), letter or A4 size (selectable with software)
Scanning resolution	1200 dpi (main), 2400 dpi (sub)
Output resolution	50 to 4800 dpi (adjustable in one-dpi increments), 7200 dpi, and 9600 dpi
Color separation	RGB color filters on CCD
Image data	16 bits per pixel per color internal 8 bits per pixel per color external
Gamma correction	User defined 2 level
Light source	White cold cathode fluorescent lamp

Reliability	30,000 cycles of scanner head movement (main unit MCBF)
Lamp	10,000-hour life

Mechanical

Paper feed method	Friction
Paper path	Sheet feeder, top entry
Sheet feeder capacity	About 100 sheets at 24lb (90 g/m²)
Dimensions	17.8 × 17.1 × 10 inches (W × D × H) 453 × 434 × 254 mm (W × D × H)
Weight	19.8 lb (9.0 kg) without ink cartridges

Electrical

Input voltage range*	108 to 132 V
Rated frequency range	50 to 60 Hz
Input frequency range	49.5 to 60 Hz
Rated current	0.5 A
Power consumption	Approx. 23 W (ISO 10560 Letter Pattern) Approx. 6.0 W in sleep mode Approx. 0.6 W in power-off mode

* Check the label on the back of this product for voltage information

Environmental

Temperature

Operation	50 to 95 °F (10 to 35 °C)
Storage*	–4 to 140 °F (–20 to 60 °C) 1 month at 104 °F (40 °C)
Transit*	–4 to 140 °F (–20 to 60 °C) 120 hours at 140 °F (60 °C)

*Stored in shipping container

Humidity (without condensation)

Operation	20 to 80% RH
Storage*	5 to 85% RH

*Stored in shipping container

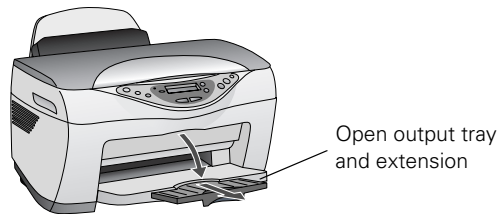## Safety Approvals

|	
Safety standards	UL 1950, CSA C22.2 No. 950
EMC	FCC part 15 subpart B class B CSA C108.8 Class B

Loading Paper

Single Sheets

1. Open the output tray and its extensions.

Open output tray
and extension

2. Flip the feeder guard forward.

Flip feeder guard forward
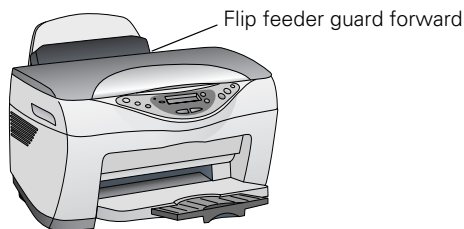
3. Insert your paper against the right edge of the sheet feeder.

Insert paper against
the right edge

Slide the left edge
guide against the
paper
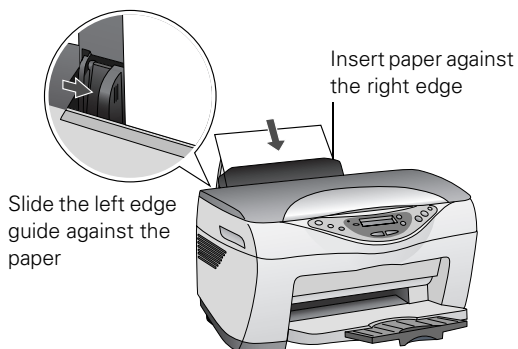
4. Slide the left edge guide against the paper (but not too tightly).

5. Lower the feeder guard back over the paper.

Also be sure to:

❏ Load the printable side face-up. It's often whiter or brighter than the other side.

❏ Load letterhead or preprinted paper top edge first.

❏ Don't load paper above the arrow on the left edge guide.

❏ Load up to approximately 100 sheets of plain paper at a time.

Envelopes

1. Load up to 10 envelopes at a time, flap edge left, and printable side up, against the right edge of the sheet feeder.

2. Slide the left edge guide against the envelopes (but not too tightly).
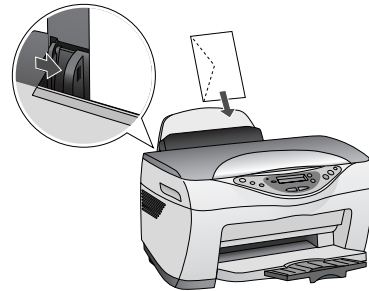
3. Raise the scanner section as shown and set the paper thickness lever to the ⊠ position (remember to set it back to the ☐ position when you're done).

Set the thickness
lever to the ⊠
position
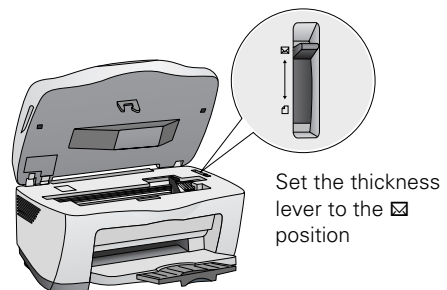
Note:
For best results, press each envelope flat before loading, or load one envelope at a time.

4. Lower the scanner section until it clicks into place.

5. Select the following settings:

❏ Plain paper as the Type (Windows®) or Media Type (Macintosh®) setting

❏ The correct envelope size as the Size (Windows) or Paper Size (Macintosh) setting

❏ Landscape as the Orientation setting

Selecting the Correct Media Type

Select the Type (Windows) or Media Type (Macintosh) setting according to these guidelines:

For this paper	Select this Type or Media Type setting
Plain paper sheets or envelopes	Plain paper
EPSON Premium Bright White Paper	Bright White Paper
EPSON Photo Quality Ink Jet Paper EPSON Photo Quality Ink Jet Cards	Matte Paper - Heavyweight
EPSON Matte Paper Heavyweight	
EPSON Double-Sided Matte Paper	
EPSON Photo Paper EPSON Glossy Photo Paper	Glossy Photo Paper
EPSON Ink Jet Transparencies	Ink Jet Transparencies
EPSON DURABrite Ink Glossy Photo Paper	DURABrite Ink Glossy Photo Paper

Placing Your Original Document

1. Open the scanner lid.

2. Place your document face-down on the glass, in the corner shown below. Move your document about 1/8 inch from the top and side edge so your entire document is scanned.
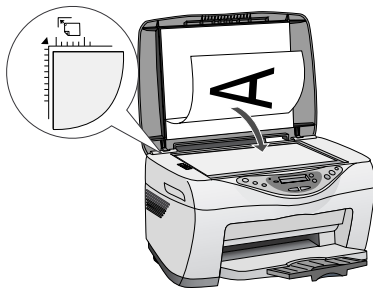
3. Close the scanner lid.

Note:
If you place your document against the guides, the edges next to the guides won't be scanned.

If you need to scan a thick document, such as a book, you can remove the scanner lid to scan. Gently press down the original to keep it flat on the document table. Be sure to replace the scanner id when you're finished.

Stand-alone Copying

Basic Copying

1. Place your document face-down on the glass, as shown in the previous section.

2. The default copy settings are displayed on the control panel. Change any necessary copy settings, as described in "Changing Copy Settings" below.

3. Press the Color Copy button (for color copies) or B&W Copy button (for black and white copies). Your document is scanned and then printed.
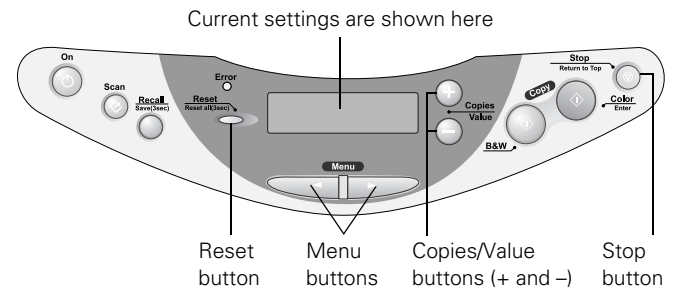
Note:
Your copied image size may not be the exact same size as your original.

If you're using the 2-up or 4-up Copy Mode setting (see "Type of Copies" on page 6), repeat these steps for your second page.

Changing Copy Settings

The current copy settings are shown on the LCD screen. You can change copy settings using the control panel, as described below.

Current settings are shown here

Reset button | Menu buttons | Copies/Value buttons (+ and −) | Stop button

When you finish changing a setting, press the Stop button.

Note:
To clear a setting, press the Reset button. To clear all the setting changes you've made, press and hold the Reset button for at least 3 seconds.

If you'll be changing the Copy mode setting (as described in "Type of Copies" on page 6), select your Copy mode before selecting any other copy settings.

Number of Copies

Press the + or – **Copies** buttons. If you're using the 2-up or 4-up Copy mode setting (see "Type of Copies"), you can't select the number of copies.

Paper Size

Press a **Menu** button until you see **Paper size** on the LCD screen. Then press the + or – **Value** buttons to select the size of the paper you loaded, either **Letter**, **4 × 6**, **5 × 7**, or **A4** (8.3 × 11.7 inches).
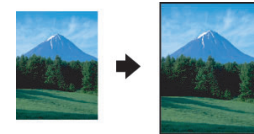
Lighten or Darken
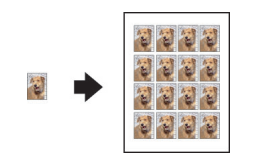
Press a **Menu** button until you see **Lighter/Darker** on the LCD screen. Then press the + or – **Value** buttons to lighten or darken your copies.
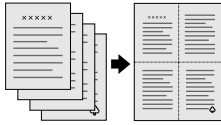
Type of Copies

Note:
The Copy mode settings determine the options available with other settings on the control panel. Not all of the other options described here are available with every Copy mode setting.

Press a **Menu** button until you see **Copy mode** on the LCD screen. Then press the + or – **Value** buttons to select one of these copy modes:

Copy mode	Results
Standard Margins Copies your original with a 0.55-inch margin at the bottom of the page	
BorderFree Sizes your original as needed to fit to the edges of 4 × 6 or 5 × 7 paper*	
Small Margins Copies your original with only a 0.1-inch border around the edges*	
Repeat Copies an image multiple times on one sheet Works best with originals that are business card-size or smaller)	

Copy mode	Results
2-up Copies two originals onto one sheet	
4-up Copies four originals onto one sheet	

* If you notice reduced print quality at the bottom of your copy, try using the Standard Margins setting.

Copy Quality

Press a **Menu** button until you see **Quality&Paper** on the LCD screen. Then press the + or – **Value** buttons to select a print quality appropriate for your document and the paper you loaded.

Quality&Paper setting	Use when you've loaded
Plain Paper–Econ	Plain paper or Premium Bright White Paper for quick copying with draft print quality
Plain Paper–Norm	Plain paper or Premium Bright White Paper for text copying with normal print quality
Plain Paper–Fine	Plain paper or Premium Bright White Paper for text and graphics copying with high print quality
Plain Paper–Best	Plain paper or Premium Bright White Paper for improved image quality
Matte Paper HW	Matte Paper Heavyweight or Double-Sided Matte Paper
Photo Paper	Photo Paper, Glossy Photo Paper, or Premium Semigloss Paper
DB Photo Paper	DURABrite Ink Glossy Photo Paper

Note:
Not all of these settings may be available, depending on the current Copy mode setting.

Reduce or Enlarge

Press a **Menu** button until you see **Reduce/Enlarge** on the LCD screen. Then press the + or – **Value** buttons to enlarge or reduce your document to fit on the paper you loaded. Or select **Auto Fit Page** to size your document automatically.

To reduce or enlarge by a precise percentage, press a **Menu** button until you see **Zoom In/Out** on the LCD screen. Then press the + or – **Value** buttons to select a percentage of the scanned image for the resulting print.

Note:
If you select **Auto Fit Page** as the Reduce/Enlarge setting to copy a document with white or very light colored edges, the original size may not be recognized correctly, creating an incorrect size copy. If this occurs, select **100%** as the Reduce/Enlarge setting and use the Zoom In/Out setting to adjust the size of your copy.

Using EPSON Smart Panel

Smart Panel is an easy, step-by-step interface for scanning, copying, printing, and more.

You can launch Smart Panel from your computer or by pressing the **Scan** button on the control panel (or you can set the **Scan** button to launch a specific Smart Panel application).

Smart Panel Features	Description
RePrint Photos	Scans and prints photos in various sizes and layouts. Includes Color Restoration.
Scan and Save	Scan an image or document directly to a file on your hard drive.
Copy Center	Scans and prints a document like a photocopier.
Copy to Fax	When you install your own fax software, scans your image or document into your PC fax utility.
Edit Text	Scans text documents and converts them to editable text files on your computer.
Photo Projects	Scans a photo into ArcSoft® PhotoImpression™ where you can edit, retouch, enhance, and print it with templates, frames, and borders.
Scan to Application	Scans an image or document and lets you choose which program it opens in.

Smart Panel Features	Description
Scan to E-mail	Scans an image or document and attaches it to an e-mail so you can send it right away.
EPSON Photo Site	Scans an image and uploads it to EPSON's photo-sharing web site.

Note:
For details on using all the Smart Panel features, click the ? button in Smart Panel or see the on-screen Smart Panel User Guide.

Control Panel Error Messages

To diagnose some problems, check the printer's control panel, as described below.

Error Message	Solution
No XXX ink cartridge – – – > Press the Color copy button to install new ink cartridge.	The indicated ink cartridge is not installed. Install the cartridge as described on page 8.
XXX ink out – – – > Press the Color copy button to begin replacing the ink cartridge.	The indicated ink cartridge is out of ink. Replace the cartridge as described on page 8.
Ink cartridge error – – – > Press the Color copy button to begin replacing the ink cartridge.	There is something wrong with the ink cartridge. Replace the cartridge as described on page 8.
Paper jam or misfeed – – – > Press the color copy button and clear the paper jam by hand if necessary.	Paper is jammed. Press the **Color Copy** button to clear the jam. If it is still jammed see your on-screen *User's Guide*.
Paper out – – – > Load paper in the Paper tray and press the Color copy button.	Load paper in the sheet feeder, then press the **Color Copy** button to continue printing.
Scanner unit open – – – > Close the scanner unit	Carefully close the scanner and press it down until it clicks securely into place.
Scanner error – – – > See your documentation and call service if necessary.	Press the **On** button to turn off the EPSON Stylus CX5400. Unlock the transportation lock, if necessary. Turn your EPSON Stylus CX back on. If the error message still appears, contact your dealer or EPSON as described in your on-screen *User's Guide*.
Printer error – – – > See your documentation and call service if necessary.	Press the **On** button to turn off the EPSON Stylus CX5400, then turn it back on. If the error message still appears, contact your dealer or EPSON as described in your on-screen *User's Guide*.

Cleaning the Print Head

If your printouts are unexpectedly light, colors are not correct, or dots or lines are missing, you may need to clean the print head. This unclogs the nozzles so they can deliver ink properly. Print head cleaning uses ink, so clean it only if quality declines.

Note:
You can also use a printer software utility to clean the print head right from your computer. Select the ? or **Help** button on your printer settings window for instructions on running the print head cleaning utility.

1. Make sure your Stylus CX is turned on but not printing, and the **Error** light is off. (If the Error light is flashing or on, you may need to replace an ink cartridge; see page 8)

2. Press a **Menu** button until you see **Head Cleaning** on the LCD screen.

3. Press the **Color Copy** button.

   Cleaning takes about 30 seconds, during which the Stylus CX makes some noise and the **On** light flashes briefly.

Caution:
Never turn off the Stylus CX while the **On** light is flashing, unless it hasn't moved or made noise for more than 5 minutes.

4. When the **On** light stops flashing, run a nozzle check to confirm the print head nozzles are clean.

   Make sure plain paper is loaded, press a **Menu** button until you see **Nozzle Check** on the LCD screen, and press the **Color Copy** button. The nozzle check pattern prints.

5. Examine the printed nozzle check pattern. It should look like this:
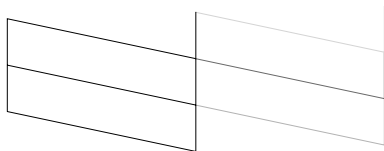
   ❏ If it looks correct, you're done.

   ❏ If any dots or lines are missing, clean the print head again; see the previous steps for instructions.

If you don't see any improvement after cleaning three or four times, see the "Problems and Solutions" section of your on-screen *User's Guide*. You can also turn the EPSON Stylus CX off and wait overnight—this allows any dried ink to soften—and then try cleaning the print head again.

Caution: When you don't turn on your EPSON Stylus CX for a long time, the print quality can decline. It's a good idea to turn it on at least once a month to maintain good print quality.

Replacing an Ink Cartridge

If the **Error** light on the EPSON Stylus CX5400 is flashing and you see an ink low or ink out message on the LCD screen and your computer monitor, you need to replace one of the cartridges. When a cartridge is more than six months old, you may need to replace it if printouts don't look their best. If the quality doesn't improve after cleaning and aligning the print head, you can replace the cartridge.

Use these ink cartridges within six months of installing them and before the expiration date on the package:

❏ Black ink cartridge: T0321

❏ Cyan ink cartridge: T0422

❏ Magenta ink cartridge: T0423

❏ Yellow ink cartridge: T0424

Caution:
To ensure good results, use genuine EPSON ink cartridges and do not refill them. Other products may cause damage to your EPSON Stylus CX5400 not covered by EPSON's warranty.

When you need new ink cartridges, contact your dealer, or call the EPSON Store at (800) 873-7766 or visit www.epsonstore.com (U.S. sales only). In Canada, please call (800) 463-7766 for dealer referral.

Warning:
Keep ink cartridges out of the reach of children and do not drink the ink.

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

Caution:
To avoid damaging the EPSON Stylus CX5400, never move the print head by hand.

You cannot print if any ink cartridge is empty. Leave the empty cartridge installed until you have obtained a replacement. Otherwise the ink remaining in the print head nozzles may dry out.

Removing and Installing Ink Cartridges

Be sure you have a new ink cartridge before you begin. Once you start the ink cartridge replacement procedure, you must complete all the steps in one session.

1. Make sure the EPSON Stylus CX5400 is turned on and not printing. The control panel tells you which ink cartridge is low or empty.

2. Use the **Menu** buttons to display **Change Cartridge**, then press the **Color Copy** button. The ink cartridges move to the replacement position.

3. Lift up the scanner section, as shown.
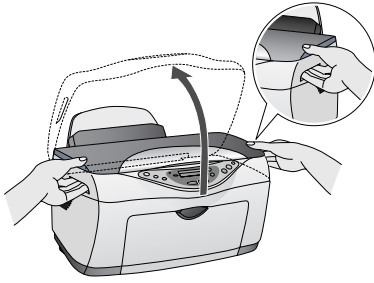
4. Pinch the tabs on the front and back of the cartridge, then lift the cartridge out and dispose of it carefully.
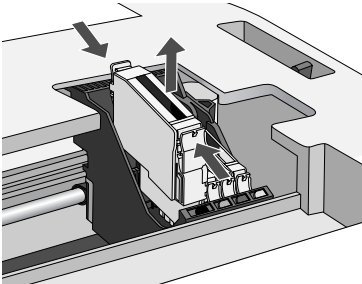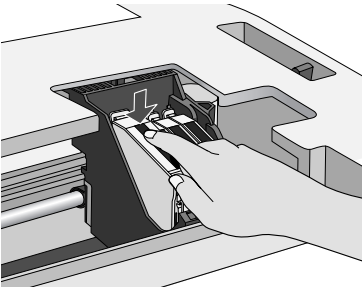

5. Shake the package of ink four or five times. Then remove the cartridge from the package.

Caution: Don't touch the green circuit board on the back of the cartridge; you may inhibit normal operation and printing.
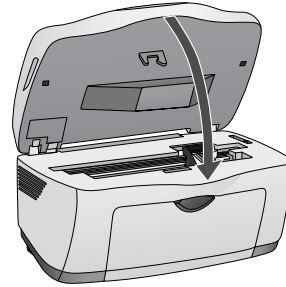

Don't touch the green part
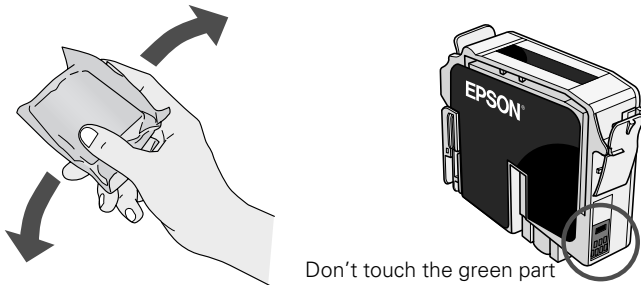
6. Lower the cartridge into its holder, then press down on the top of the cartridge until it clicks in place.

If you need to replace other ink cartridges, repeat steps 4 through 6 before continuing with step 7.

7. Carefully lower the scanner section and press it down until it clicks into place.

The EPSON Stylus CX begins charging the ink delivery system.

Charging takes about 30 seconds. The On light flashes and the EPSON Stylus CX makes noise. When it's finished, the On light stops flashing and stays on.

Caution: Never turn off the EPSON Stylus CX while the On light is flashing, unless it hasn't moved or made noise for more than 5 minutes.

Aligning the Print Head

If your printouts contain misaligned vertical lines, you may need to align the print head.

Note:
You can also use a printer software utility to align the print head from your computer. Select the **?** or **Help** button on your printer settings window for instructions running the print head alignment utility.

1. Make sure the EPSON Stylus CX5400 is turned on and not printing, and the **Error** light is off.

2. Load a stack of plain, letter-size paper in the sheet feeder.

3. Press a **Menu** button until you see **Head Alignment**, then press the **Color Copy** button to print the first test page.

4. On the test page, select the number of the straightest line in each row. (In this example, the best choices have been circled.) You may need to use a magnifying glass or loupe.
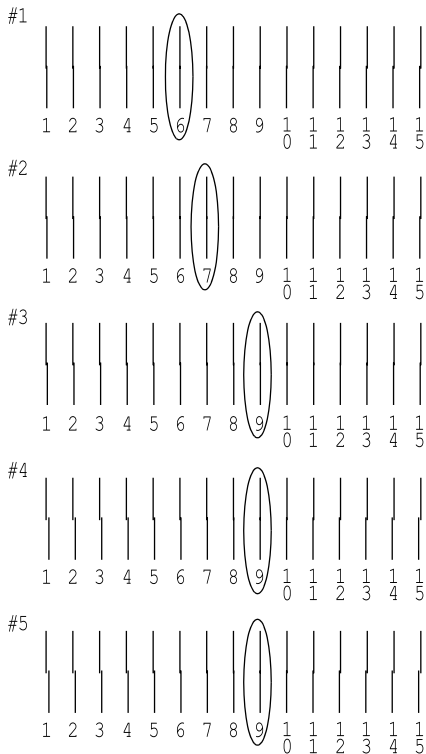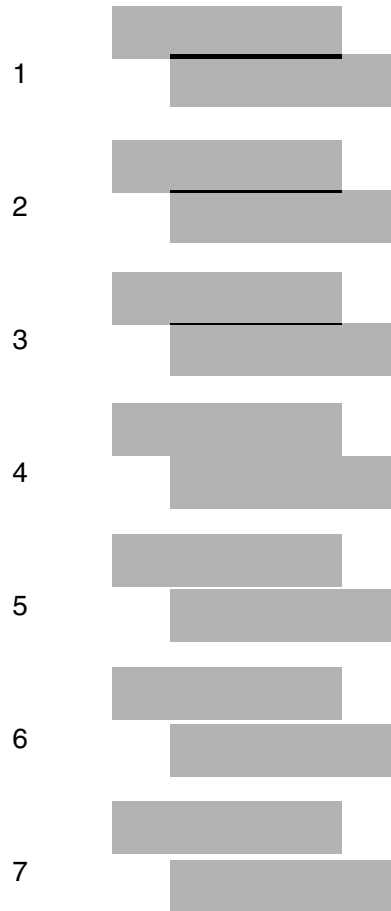

5. Press the **+** or **-** **Value** buttons to select the number of the best line for the first row, then press the **Color Copy** button. Repeat this step for the second, third, fourth, and fifth rows.

Note:
If you select a pattern other than 8 in any row, that pattern becomes pattern #8 next time you align the print head.

6. When you're finished, press the **Color Copy** button to print the second test page.

7. On the test page, select the pair of horizontal bars with the least noticeable light or dark band between them. (In this example, the best choice is #4.) You may need to use a magnifying glass or loupe.

8. Press the **+** or **-** **Value** buttons to select the number of the best pattern, then press the **Color Copy** button.

9. When you're finished, press the **Color Copy** button to print the third test page.

10. Repeat steps 7 through 8 to complete the alignment process.

Related Documentation

CPD-16736	EPSON Stylus CX5400 *Start Here*
CPD-16737	EPSON Stylus CX5400 *Quick Reference*
CPD-16738	EPSON Stylus CX5400 CD-ROM (includes HTML *User's Guide*)