

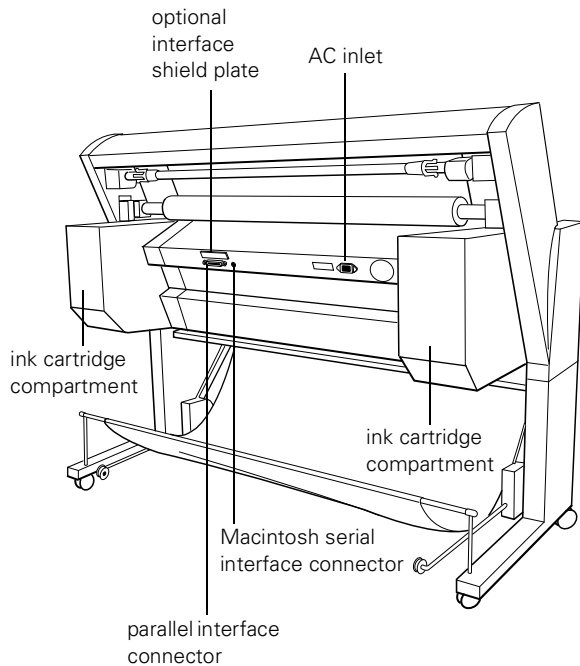
Printer Specifications

Printing

Printing method	On-demand ink jet
Nozzle configuration	64 nozzles × 6 (black, cyan, magenta, yellow, light cyan, light magenta)
Resolution	Maximum 1440 dpi × 720 dpi
Maximum printable width	43.76 inches on 44-inch paper
Print direction	Bidirectional or unidirectional (user-selectable)
Control code	ESC/P® Raster
Line spacing	1/6 inch (default), programmable in 1/360-inch increments
Paper feed speed	200 ± 10 milliseconds per 1/6-inch line
RAM	18MB

Engine Reliability

Total print volume	18,000 B1 images, 30% coverage
Print head life	Two billion dots per nozzle
Periodic maintenance	Waste ink system requires replacement after approximately 12,000 sheets (parts and labor not covered under warranty)
Cutter blade life	Approximately 2000 B1 sheets (EPSON media up to 4.33 mil thick)



Electrical

Specification	120V Model	220–240V Model
Input voltage range	90 to 132V	208 to 264V
Rated frequency range	50 to 60 Hz	
Input frequency range	49 to 61 Hz	
Rated current	1.0A	0.5A
Power consumption	Approx. 100W (ISO/IEC 10561 Letter Pattern) 30W or less in standby mode	

Note:

This product is also designed for IT power systems with phase to phase voltage 220 to 240 V. Check the label on the back of the printer for your printer's voltage.

Paper

Cut sheet paper specifications

Size	Dimensions in inches	Dimensions in millimeters	Thickness
Super B0	44 × 62.2	1118 × 1580	3.15 to 19.7 mil (0.08 to .5 mm)
B0	40.5 × 57.3	1030 × 1456	
Super A0	36 × 50.9	914 × 1292	
A0	33 × 46	841 × 1189	3.15 to 59 mil (0.08 to 1.5 mm)
US E	34 × 44	864 × 1118	
B1	28.7 × 40.5	728 × 1030	
US D	22 × 34	559 × 864	
A1	23.4 × 33	594 × 841	
B2	20.25 × 28.7	515 × 728	
A2	16.5 × 23.4	420 × 594	
Super A3/B	13 × 19	329 × 483	
US C	17 × 22	432 × 559	
B3	14.3 × 20.25	364 × 515	
US B (ledger)	11 × 17	279 × 432	
A3	11.7 × 16.5	297 × 420	

Roll paper specifications

	Maximum roll diameter	Width	Thickness
When using 2 rolls	5.90 in. (150 mm)	13 to 44.02 in.	3.15 to 19.7 mil
When using 1 roll	4.05 in. (103 mm)	330 to 1118 mm	(0.08 to 0.5 mm)

Notes:

- ❑ 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 use curled, folded, or deckle-edge paper.
- ❑ Depending on the media, feed and print quality are guaranteed on paper thicknesses of 3.15 to 4.33 mil (0.08 to 0.11 mm), 64 to 90 gsm.
- ❑ For best results, use paper under the following conditions:
 Temperature: 59 to 77 °F (15 to 25 °C)
 Humidity: 40 to 60% RH

Temperature

Storage (uninstalled) -22 to 104 °F (-30 to 40 °C)
1 month at 104 °F (40 °C)

Storage (installed) -4 to 104 °F (-20 to 40 °C)
1 month at 104 °F (40 °C)

Transit -22 to 140 °F (-30 to 60 °C)
1 month at 104 °F (40 °C)
120 hours at 140 °F (60 °C)

Freezing 14 °F (-10 °C) ink thaws and is usable after at least 3 hours at 77 °F (25 °C)

Ink Cartridges

Print yield Approximately 28 pages/A0 (720 dpi, 40% duty)
 Approximately 6400 pages/A4 (360 dpi, 5% duty); print yield may vary, depending on how often you run cleaning cycles and how much you use the printer; yield of the initial cartridge set is reduced because of ink charging

Dimensions Width: 0.99 inches (25.1 mm)
 Depth: 10.24 inches (260 mm)
 Height: 4.15 inches (105.3 mm)

Weight Approximately 0.82 to 0.85 lb (370 to 385 g)

Capacity 7.4 oz (220 ml)

Cartridge life:

Graphic arts ink 2 years from the production date

Archival ink 6 months after opening package, at 77 °F (25 °C)

Mechanical

Paper feed method	Friction
Paper path	Roll paper or cut sheets with manual insertion
Dimensions	Width: 66.46 inches (1688 mm) Depth: 27.52 inches (699 mm) Height: 49.57 inches (1259 mm)
Weight	211.64 lb (96 kg) without ink cartridges

Environmental

Temperature	Operation:	50 to 95 °F (10 to 35 °C)
	Storage:	-4 to 104 °F (-20 to 40 °C) 1 month at 104 °F (40 °C)
	Transit	-4 to 140 °F (-20 to 60 °C), stored in shipping container 120 hours at 140 °F (60 °C)
Humidity (without condensation)	Operation:	20 to 80% RH
	Storage:	20 to 85% RH
	Transit	5 to 85% RH (stored in shipping container)

Safety Approvals

Safety standards	UL 1950, CSA C22.2 950
EMC	FCC part 15 subpart B class B CSA C108.8 class B

Interfaces

Parallel interface

The built-in parallel interface supports compatibility and ECP modes.

Compatibility mode

Forward channel

Data format	8-bit parallel, IEEE-1284 compatibility mode
Synchronization	$\overline{\text{STROBE}}$ pulse

Handshake timing	BUSY and $\overline{\text{ACKNLG}}$ signals
Signal level	TTL compatible
Connector	57-30360 Amphenol connector or equivalent
<i>Reverse channel</i>	
Transmission mode	IEEE-1284 Nibble mode
Adaptable connector	57-30360 Amphenol connector or equivalent
Synchronization	Refer to the IEEE-1284 specification
Handshaking	Refer to the IEEE-1284 specification
Signal level	IEEE-1284 Level 1 device
Data transmission timing	Refer to the IEEE-1284 specification

ECP mode

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

You can use a USB conversion cable, such as the EPSON USB adapter (C-USB-PK4), to connect to the printer's parallel port. Make sure the printer's parallel interface is set to compatible (the default setting).

Serial interface

Standard	Based on RS-423
Synchronization	Synchronous
Bit rate	Approximately 1.8 Mbps
Handshaking	X-ON/X-OFF, DTR protocol
Word format	Data bit: 8 bits Parity bit: None Start bit: 1 bit Stop bit: 1 bit
Connector	8-pin mini-circular connector
Recommended cable	ImageWriter® II cable (preferably Belkin brand)

Supported Connections

Connection	Win 95	Win 98	Win NT	Win 2000	Mac	Standard/optional
Parallel	X	X	X	X		standard
Serial					X	standard
USB		X* **		X*	X*	optional
Ethernet	X	X	X	X	X	optional
FireWire				X	X	optional

* USB connection with optional EPSON USB adapter cable, C-USB-PK4.
 ** Supported on pre-installed operating systems, not upgraded from earlier versions of Windows.

Drivers

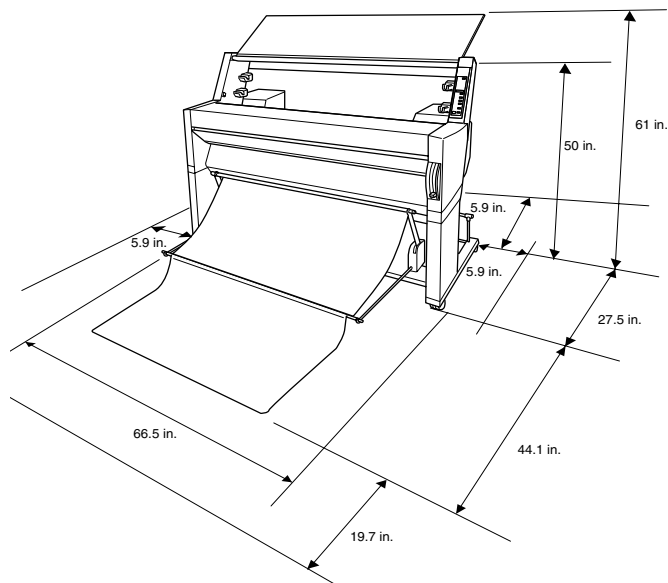
Macintosh® System 8.5.1 or later, Windows® 95/Windows 98/Windows 2000, Windows NT 4.0. Raster drivers are standard. For Adobe® PostScript® support, use the optional EPSON RS-5100 Fiery® X2 Printing System or a third-party software solution.

Delivery and Installation

The product is delivered on a single pallet and requires a truck with a lift gate, a loading dock and hand truck, or a forklift.

Package size for delivery:
 width: 72.8 inches
 depth: 38 inches
 height: 47.8 inches
 weight: 211 lb

Make sure you allow adequate space for easy operation, maintenance, and ventilation, as shown in the following illustration:



Consumables and Accessories

Ink Cartridges

Use these EPSON 220 ml ink cartridges before the expiration date on the package.

EPSON Stylus Pro 9000 graphic arts (dye-based) ink

Cartridge	Part number
Black ink cartridge	T407011
Cyan ink cartridge	T410011
Light cyan ink cartridge	T412011
Magenta ink cartridge	T409011
Light magenta ink cartridge	T411011
Yellow ink cartridge	T408011

EPSON Stylus Pro 9500 Archival (pigment) ink

Cartridge	Part number
Black ink cartridge	T474011
Cyan ink cartridge	T477011
Light cyan ink cartridge	T479011
Magenta ink cartridge	T476011
Light magenta ink cartridge	T478011
Yellow ink cartridge	T475011

EPSON Paper and Other Media

EPSON Stylus Pro 9000 media

Paper type	44-inch roll	36-inch roll	24-inch roll	Sheet sizes
Presentation Matte Paper	S041220	S041221	S041295	—
Glossy Paper Heavyweight	S041226	S041227	S041291	—
Semigloss Paper Heavyweight	S041228	S041229	S041292	—
Photo Glossy Paper	SP91002	SP91001	SP91021	—
Photo Semigloss Paper	SP91004	SP91003	SP91022	—
Backlight Film	SP91008	SP91007	SP91023	—
Posterboard Semigloss	—	—	—	20.25 × 28.75" S041237 28 × 40" S041236
DuPont/EPSON Publication Proofing Paper	—	S041249	S041320	13 × 19" (A3+) S041207, S041205
DuPont/EPSON Commercial Proofing Paper	—	S041251	S041296	13 × 19" (A3+) S041160
DuPont/EPSON Commercial Matte Proofing Paper	—	S041247	S041319	13 × 19" (A3+) S041201, S041203
Premium Luster Photo Paper	*	*	*	—

* Not available at time of publication. Check the EPSON web site (<http://prographics.epson.com>) for product codes and availability. Some media may not be available in your area.

EPSON Stylus Pro 9500 media

Paper type	44-inch roll	36-inch roll	24-inch roll	Sheet sizes
Doubleweight Matte Paper	S041387	S041386	S041385	—
Glossy Paper Photo Weight	S041389	—	S041388 (22" roll)	—
Premium Semigloss Photo Paper	—	—	—	13 × 19" (A3+) S041327
Smooth Fine Art Paper	S041433	S041432	S041431	24 × 30" S041434 36 × 44" S041435
Backlight Film for Archival Ink	*	*	*	—
Synthetic Paper	S041401	S041400	S041399	—
Adhesive Synthetic Paper	S041404	S041403	S041402	—
Photo Glossy Paper	SP91002	SP91001	SP91021	—
Photo Semigloss Paper	SP91004	SP91003	SP91022	—
Adhesive Vinyl	S041438	S041437	S041436	—
Canvas	*	*	*	—
Premium Luster Photo Paper	*	*	*	—
Semimatte Paper Photo Weight	*	*	*	—
Posterboard for Archival Ink	*	*	*	20.25 × 28.75" 28 × 40"
Textured Fine Art Paper	S041449	S041448	S041447	24 × 30" S041450 36 × 44" S041451
Translight	*	*	*	—
Tyvek™	*	*	*	—
Scrim Vinyl	*	*	*	—

* Not available at time of publication. Check the EPSON web site (<http://prographics.epson.com>) for product codes and availability. Some media may not be available in your area.

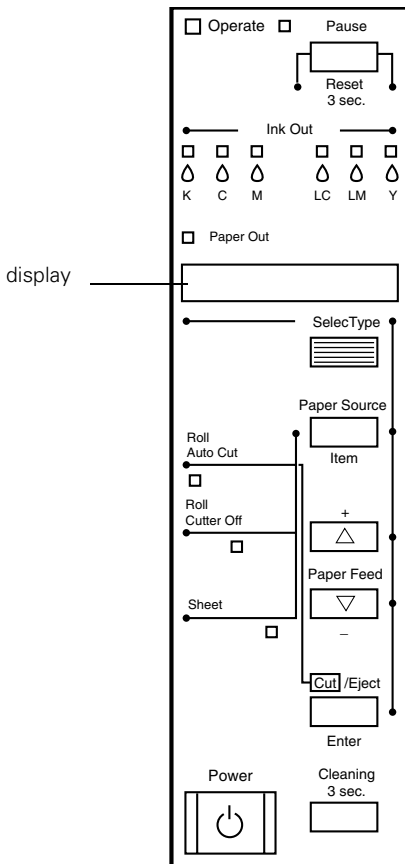
Note:

Both Smooth and Textured Fine Art Paper require the 3-inch high tension spindle (C811052). Both Synthetic Paper and Adhesive Synthetic Paper require the 2-inch high tension spindle (C811042).

Options

Option	Product Code
EPSON RS-5100 Fiery X2 Printing System: EPSON Stylus Pro 9000 EPSON Stylus Pro 9500	C850122 C850152
Automatic take-up reel system	C815082
Replacement 44" take-up reel core	C815121
Roll paper spindle—2 inch	C811041
Roll paper spindle—3 inch	C811051
High tension spindle—2 inch	C811042
High tension spindle—3 inch	C811052
Replacement cutter blade	C815131
EpsonNet Internal Print Server (multiprotocol 10/100 Base-TX Ethernet Card)	C823632A
EPSON FireWire® Interface Card	C823722
Printer only service plan—1 year	EPP90B1
Printer only service plan—2 years	EPP90B2
Printer and EPSON RS-5100 service plan—1 year	EPP90S1
Printer and EPSON RS-5100 service plan—2 years	EPP90S2

Control Panel



Control Panel Buttons and Functions

Button	Function
Power	Turns the printer on and off.
Cleaning	Runs print head cleaning when pressed for 3 seconds.
Pause (Reset 3 Sec.)	Stops printing temporarily. Press a second time to resume printing. Clears print data in the printer memory if pressed and held for three seconds. Returns the printer to READY status, when pressed in SelectType mode.
SelectType	Causes the printer to enter SelectType mode when pressed in READY status. In SelectType mode, this button can be used to select a desired menu.
Paper Source (Item)	Selects the paper source: Roll Auto Cut , Roll Cutter Off , or Sheet . If you press this button during the ink drying process, you will need to press Enter to make your setting. In SelectType mode, this button can be used to select an item in a menu.
Paper Feed ▲ (+)	Feeds paper in reverse. In SelectType mode, a desired parameter can be selected for the item (forward order).
Paper Feed ▼ (-)	Feeds paper forward. In SelectType mode, a desired parameter can be selected for the item (reverse order).
Cut/Eject (Enter)	Ejects the cut sheet when the Sheet light is on. Feeds the roll paper before cutting it when the Roll Auto Cut light is on. Feeds the roll paper a small amount when the Roll Cutter Off light is on. Feeds the roll paper and then prints a page line below the document when the Roll Cutter Off light and Print Page Line option are on. In SelectType mode, sets the selected parameter for an item as the default value.

Control Panel Lights and Messages

Normal printer operation

Message/Light	Explanation
READY/ Operate light on	Printer is ready to print.
PRINTING/ Operate light flashing	Printer is receiving data.
INK DRY <number> MIN/ Pause light flashing	Printer is paused to let ink dry. Wait for the number of minutes shown.
RESET/ all lights flash briefly	Printer is resetting.
PRESS PAUSE BUTTON/ Pause light on	Press the Pause button to continue.
WAIT/ Pause light on or flashing	Printer is warming up, performing maintenance, or charging ink.
PAUSE/ Pause light on	Printer is paused. To resume printing, press the Pause button.

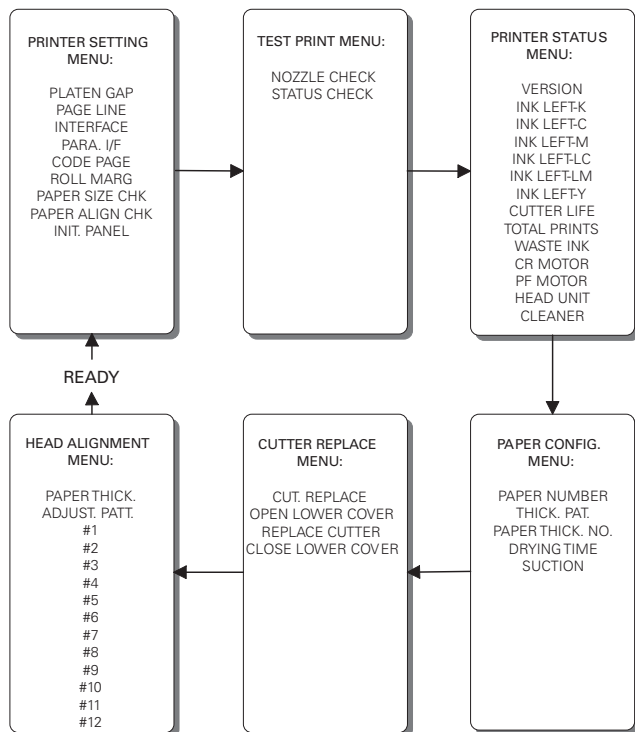
Error conditions

Message/Light	Explanation	Response
COVER OPEN/ Pause light on	Lower cover is open.	Close the lower cover.
INK COMPART. OPEN/ Pause light on	You are replacing the ink cartridge(s) and the ink compartment cover is open.	Close the ink compartment cover when you are finished replacing the ink cartridge(s).
INK LOW/ Ink Out light(s) flashing	Ink cartridge(s) are nearly empty (printing continues).	Replace ink cartridge(s) indicated by Ink Out light(s). See page 9.
INK OUT/ Ink Out light(s) on	Ink cartridge(s) are empty (printing stops).	Replace ink cartridge(s) indicated by Ink Out light(s). See page 9.
LOAD PAPER/ Paper Out light on	Paper set lever is up while loading paper.	Pull the paper set lever down after you load the paper.
LOAD ROLL PAPER LOAD SHEET PAPER/ Paper Out light on	Paper source setting in print options is different from control panel.	Make sure the right paper is loaded and the paper source setting is the same on the control panel and print options.
MAINTENANCE REQ. <error number>	A printer part will need to be replaced soon.	Note the error number and contact EPSON.
MAINTENANCE REQ 0100	The waste ink system is almost full.	Contact EPSON to schedule service.
NO INK CARTRIDGE/ Ink Out light(s) on	Ink cartridge(s) not installed.	Install ink cartridges as indicated by the lights. See page 9.
OPTION I/F ERROR	Wrong interface card installed.	Turn off the printer and remove the card.
PAPER JAM/ Paper Out light flashing	Paper has jammed in the printer.	Remove the jammed paper.
PAPER NOT CUT/ Paper Out light flashing	Roll paper was not cut completely.	Cut the paper manually, then remove the cut paper from the printer. Reload paper.
	Cut paper did not fall off.	Remove the cut paper from the printer. Reload paper.
PAPER NOT STRAIGHT/ Paper Out light flashing	Paper slipped and fed into the printer at an angle.	Reload paper, making sure the edges are straight and aligned with both rows of holes.
PAPER OUT/ Paper Out light on	No paper is loaded.	Load paper.
	Paper ran out.	Remove any printouts or paper remaining in the printer and load more paper. If the message appears during a print job, reset the printer by pressing the Pause button for 3 seconds. Then load paper and resend the job.

Message/Light	Explanation	Response
PUSH LEVER DOWN/ Paper Out light on	Paper set lever was released during the printing process or another operation.	Push the paper set lever down. Start printing again from the beginning for best results.
RELOAD PAPER/ Paper Out light on	Paper could not be reversed into the printing position.	Remove the paper. Reload it so that the right and bottom edges are straight and aligned with both rows of holes.
	Image is too wide for the paper loaded in the printer.	Resize your image or load wider paper.
	Paper is not fully ejected.	Cut the paper at the paper insertion slot, then reload paper.
	PAPER NOT CUT error was cleared.	Reload paper.
REMOVE PAPER/ Paper Out light on	Paper is too thick for print head cleaning.	Push the paper set lever down to remove the paper. Print head cleaning automatically starts. After cleaning, reload paper.
SERVICE REQ. <error number>/ All lights flashing	An error has occurred.	Note the error number, and turn the printer off and then on. If the message remains, contact EPSON.
SERVICE REQ. 00000100/ All lights flashing	The waste ink system is full.	Contact EPSON for service.
TURN PWR OFF AND ON	This message appears after you clear a paper jam.	Turn the printer off and then on again.
UNABLE TO PRINT	You tried to print a test pattern while an error condition was present or the ink compartment cover was open.	After 3 seconds, the message disappears. Press the Pause button to exit SelecType mode. If the message appears again, clear the error before you print.
WRONG CARTRIDGE/ Ink Out light(s) on	Wrong ink cartridge installed.	Install the correct ink cartridge(s).

SelectType Menu Map

The following illustration shows the SelectType™ menus, along with the settings available for each one.



Printing a Status Check

The status check shows the current default settings, amount of ink remaining in each cartridge, page count, and the status of various printer parts.

Follow these steps to print the status check:

1. Load a sheet of paper in the printer. (You can print test pages on roll paper, but you will waste paper.)
2. Press the **SelectType** button on the control panel. Press it repeatedly until you see **TEST PRINT MENU** on the display.
3. Press the **Item** button until you see **STATUS CHECK=PRINT** on the display.

4. Press the **Enter** button. The status check prints. The amount of ink left or component life is indicated as follows:

E*****F = full (or full life remaining)
 E**** F = 3/4 full (or 3/4 life remaining)
 E*** F = 1/2 full (or 1/2 life remaining)
 E** F = 1/4 full (or 1/4 life remaining)
 E* F = nearly empty (or service life near end)
 E F = empty (or service life ended)

5. Press the **SelectType** button to exit the Test Print menu.

Checking Ink Levels and Component Life

You can view printer status information on the control panel display without printing a status check. Follow these steps:

1. Press the **SelectType** button on the control panel. Press it several times until you see **PRINTER STATUS MENU** on the display.
2. Press the **Item** button. You see **VERSION <number>** on the display. This indicates the firmware version installed in your printer.
3. Continue pressing the **Item** button to display the amount remaining for each of the 6 inks or life remaining for a number of printer parts. The indicators read as follows:

E*****F = full (or full life remaining)
 E**** F = 3/4 full (or 3/4 life remaining)
 E*** F = 1/2 full (or 1/2 life remaining)
 E** F = 1/4 full (or 1/4 life remaining)
 E* F = nearly empty (or service life near end)
 <nn>% F = less than 10% of ink or service life remaining

Following is a list of the items displayed. Note that all parts on the list (except the ink cartridges and paper cutter) need to be replaced by an authorized EPSON service center.

INK LEFT-K (black)	TOTAL PRINTS
INK LEFT-C (cyan)	WASTE INK (waste ink system)
INK LEFT-M (magenta)	CR MOTOR (carriage motor)
INK LEFT-LC (light cyan)	PF MOTOR (paper feed motor)
INK LEFT-LM (light magenta)	HEAD UNIT (print head)
INK LEFT-Y (yellow)	CLEANER (cleaning unit)
CUTTER LIFE (paper cutter)	

4. Press the **SelectType** button to exit the Printer Status menu.

Replacing an Ink Cartridge

When one of the Ink Out lights is flashing (and INK LOW is displayed on the control panel), the corresponding cartridge is almost out of ink. Make sure you have a replacement cartridge. When the light stays on and INK OUT is displayed, the cartridge is empty. You must replace the cartridge before you can continue printing.

Caution:

For best results, use genuine EPSON cartridges and do not refill them. Damage to your printer attributable to the use of other consumables is not covered by EPSON's warranty. Color accuracy may vary considerably if you use non-EPSON inks.

Use only the following EPSON ink cartridges:

EPSON Stylus Pro 9000 graphic arts (dye-based) ink

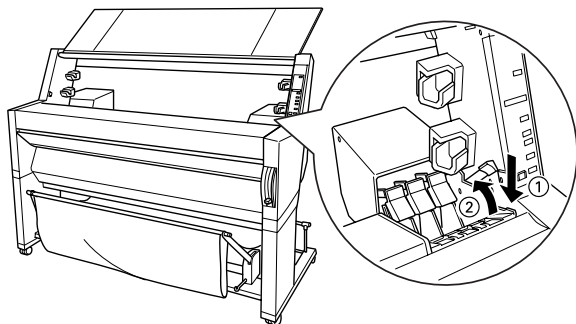
- Black: T407011 Magenta: T409011
- Cyan: T410011 Light Magenta: T411011
- Light Cyan: T412011 Yellow: T408011

EPSON Stylus Pro 9500 Archival (pigment) ink

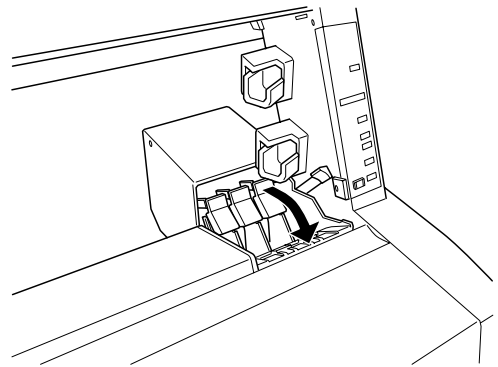
- Black: T474011 Magenta: T476011
- Cyan: T477011 Light Magenta: T478011
- Light Cyan: T479011 Yellow: T475011

Before you start, make sure the printer is turned on. Then follow these steps to replace an ink cartridge:

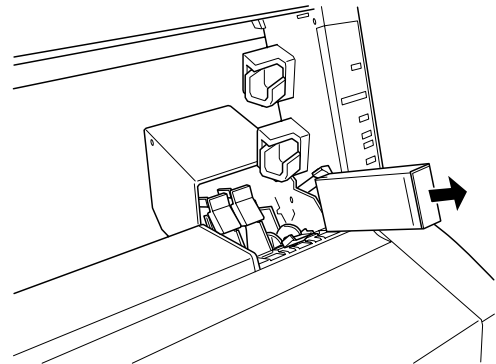
1. Note the color of the Ink Out light that is on or flashing. This is the cartridge that you need to replace.
2. Open the roll paper cover and locate the ink cartridge that needs replacing.
3. Push the lever down and let it "bounce" back up to open the ink compartment cover. INK COMPART. OPEN appears on the display.



4. Locate the slot containing the empty ink cartridge (corresponding to the Ink Out light). Pull the clamp forward.

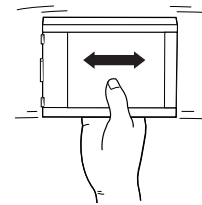


5. Carefully pull the empty cartridge straight out of the printer.



6. Make sure the replacement cartridge is the correct color, and remove it from its package.

If you're using pigment ink, shake the cartridge gently before installing it.



7. Hold the ink cartridge with the arrow mark face-up and pointing to the rear of the printer. Then insert the ink cartridge into the slot. Don't force the cartridge.
8. Push the cartridge clamp back. Make sure the corresponding Ink Out light goes off.
9. Close the ink compartment cover by pushing the lever down until it clicks into place.

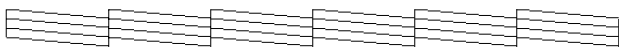
Running a Nozzle Check

The nozzle check prints a pattern of dots that lets you see if any print head nozzles are clogged. If any dots are missing, you can run a cleaning cycle to clear the nozzles.

Follow these steps to print the nozzle check:

1. Load a sheet of paper in the printer. (You can print the nozzle check on roll paper, but you will use more paper.)
2. Press the **SelecType** button on the control panel repeatedly until you see **TEST PRINT MENU** on the display.
3. Press the **Item** button. You see **NOZZLE CHECK=PRINT** on the display.
4. Press the **Enter** button. The nozzle check prints as shown below.

If all the lines on the check pattern are complete, with no gaps in the dot pattern, the print head doesn't need cleaning:



If dots are missing from the pattern, as shown below, you need to run a cleaning cycle. See the following section for instructions.



Running a Cleaning Cycle

If your printed image is unexpectedly light or faint or dots are missing from the image, you may need to run a cleaning cycle. This unclogs the print head nozzles so they can deliver ink properly.

The cleaning process uses ink, so you should run it only if print quality declines. Always run a nozzle check first to confirm that the print head needs cleaning; the nozzle check uses only a small amount of ink.

If you have installed the EPSON printer driver and utilities, you can run the Head Cleaning utility.

Follow these steps to run the cleaning cycle from the printer's control panel:

1. Make sure none of the **Ink Out** lights is on or flashing. (If so, you need to replace the indicated ink cartridge before you can run a cleaning cycle.)
2. Press the **Cleaning** button and hold it for three seconds.

The **Pause** light flashes as the printer cleans its print head. The cleaning cycle takes about three minutes, and does not use any paper.

Caution:

To avoid damaging the printer, don't turn it off until the cleaning cycle is finished and the **Pause** light has stopped flashing.

3. When the **Pause** light goes off, print a document or run a nozzle check to confirm that the print head is clean.

You may need to run the cleaning cycle several times to get a clean nozzle check pattern. If the lines on the pattern still appear broken after several cleaning cycles, contact EPSON for assistance.

Always run a test print or nozzle check between cleaning cycles. Otherwise, cleaning will not be effective.

Aligning the Print Head

If banding appears on your printouts, or vertical lines are not straight, you need to align the print head. You can use the Print Head Alignment utility if you have the EPSON printer driver installed. If not, you can align the print head using the control panel. Both procedures align the head for all modes and resolutions.

Print head alignment is a two-part procedure:

- First you print a series of alignment or adjustment patterns.
- Then you determine which numbered row of patterns (EPSON Stylus Pro 9000) or numbered line or box (EPSON Stylus Pro 9500) is best aligned (has the smallest gaps). You enter the information on the control panel to align the print head.

Printing the Alignment Patterns

For the EPSON Stylus Pro 9000, use 13 × 19-inch EPSON coated ink jet paper (short edge first). You'll need 4 sheets to complete the alignment procedure, which includes 12 patterns of 7 rows each and takes about 15 minutes.

For the EPSON Stylus Pro 9500, you can use EPSON roll paper. Six patterns of 15 lines or boxes are printed, which takes about 10 minutes. The patterns are repeated across the width of the paper.

Follow these steps to align the print head using the control panel:

1. Load paper in the printer.
2. Press the **SelecType** button until **HEAD ALIGNMENT MENU** is displayed.

- Press the **Item** button. **PAPER THICK=STD** appears on the display.

If you're using EPSON paper, leave this setting on **STD**.

If you're using other media, enter the thickness value of the paper in 0.1 mm increments by pressing the **+** or **-** button.

- Press the **Enter** button to save the setting. **ADJUST.PATT.=ALL** appears on the display.
- Press the **Enter** button to print the full series of alignment patterns.

If you want to print a single alignment pattern, press the **+** or **-** button until the pattern number appears. Then press the **Enter** button.

- For the EPSON Stylus Pro 9500, skip to the next section, "Completing the Alignment Procedure."
- For the EPSON Stylus Pro 9000, patterns 1 through 3 are printed on the first sheet of paper. After this sheet is printed, **PAPER OUT** appears on the display and the red **PAPER OUT** light comes on.

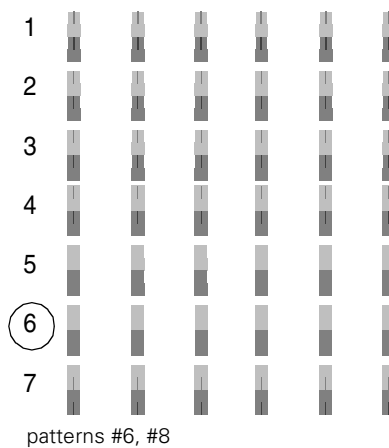
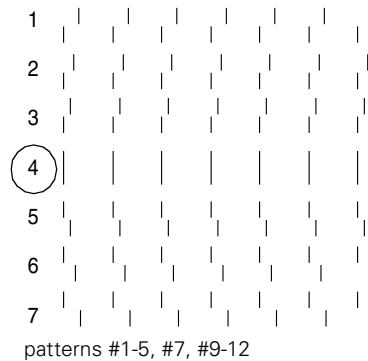
- Raise the paper set lever and remove the printed sheet.
- Load another sheet of paper. The next three patterns are printed.
- Repeat steps 6 and 7 twice, until all 12 patterns have been printed.
- Raise the paper set lever and remove the last printed sheet. Then lower the lever and continue the alignment procedure in the next section.

Completing the Alignment Procedure

After all the patterns have printed, continue with these steps.

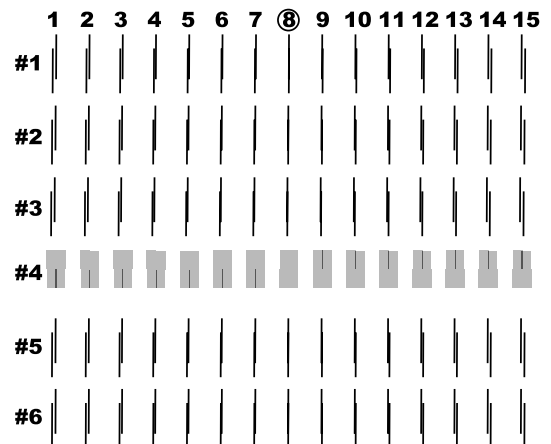
- Do one of the following:
 - For the EPSON Stylus Pro 9000, examine pattern #1 and determine which row number has the smallest gaps. In the first example below, the lines in row 4 have the smallest gaps. In the second example, row 6 has the smallest gaps.

EPSON Stylus Pro 9000 Alignment Patterns



- For the EPSON Stylus Pro 9500, examine row #1 and determine which line or box number has the smallest gaps. In the example below, line 8 has the smallest gaps in row 1.

EPSON Stylus Pro 9500 Alignment



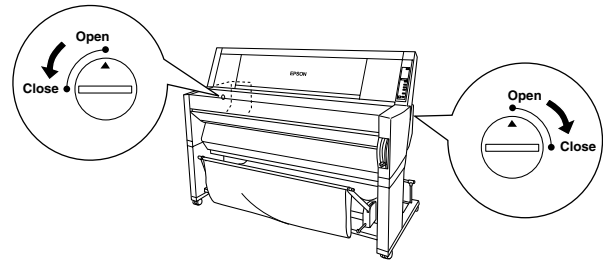
2. Check the control panel display. Use the + or – button to select the best aligned row or line for pattern #1. Then press the **Enter** button to register the setting.

3. Repeat steps 1 and 2 for each pattern.

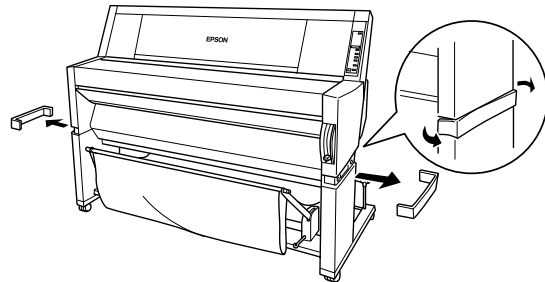
If you can't make a consistent choice as you look across the width of the paper, choose the average or most frequent number, then print the pattern again. Press **Enter** to cycle through the patterns until you reach the one you want to repeat.

4. After you have registered all the patterns, press the **Pause** button to exit head alignment mode and return to normal printer operation.

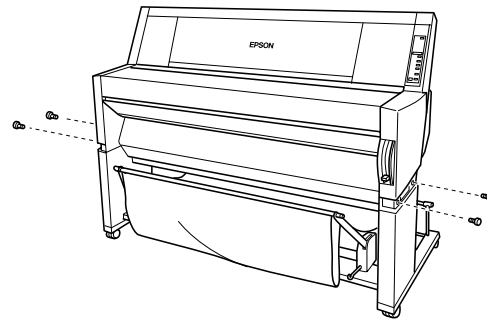
5. Close the ink valve locks on each side of the printer.



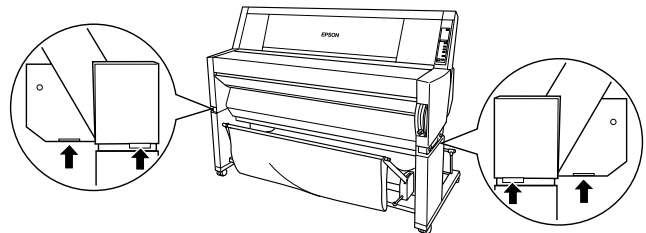
6. Remove the left and right side joint cover plates by spreading the ends and pulling outward. Keep the cover plates in a safe place.



7. While holding the printer unit, remove the screws from the left and right sides. Keep the screws in a safe place.



8. Have four people lift printer unit off of the leg assembly, using the hand grips. Lift the back of the printer first, tilt it slightly to the front, then slide it back to remove it.



Warning:

The printer unit weighs approximately 212 lb (96 kg). Always have four people lift it, using the hand grip areas.

9. Keep the printer level while you move it.

Transporting the Printer

When you need to ship your printer, you should repack it using the original box and packing materials. Follow these steps:

1. First turn off the printer and make sure the print head is in the home (far right) position. If not, turn the printer back on, wait until the print head moves to the home position, then turn off the printer.
2. Remove the following parts:
 - Ink cartridges
 - Power cord
 - Interface cable
 - Paper hammock
 - Roll paper spindles
 - All paper or other media
 - Optional auto take-up reel (if installed)

After you remove the ink cartridges, store them in separate, resealable bags.

Caution:

If for any reason the printer will not be level during shipping, a service technician must drain all ink from the printer before it is shipped.

3. Make sure the ink cartridge clamps are in the upright position (closed). Leave the ink compartment cover open. Use tape to hold the cover and the cartridge clamps in place. This automatically closes the ink valves.
4. Install the carriage shipping restraint (packaging material).

Setting Up the Printer After Transporting It

Setting up the printer after transporting it is almost identical to setting it up for the first time. Whenever you set up the printer, see the *Assembly and Setup Instructions*, and note the following points:

- ❑ Don't forget to open the side ink valve locks. The printer can't print while they are closed.
- ❑ Don't forget to remove any protective material (such as tape from the ink cartridge clamps).
- ❑ The first time you start printing after moving the printer, the print head nozzles may be clogged. You may need to run a cleaning cycle (see page 10) and realign the print head (see page 10) to ensure good print quality.
- ❑ If you reinstall the cartridges you removed, make sure the printer is turned off. Otherwise, the printer may not be able to determine the correct level of remaining ink and the Ink Out lights may not flash to warn you when a cartridge is almost empty.
- ❑ If the ink lines were drained, EPSON recommends installing new cartridges. Because of the ink charging process, you will not be able to save ink by reinstalling used cartridges.

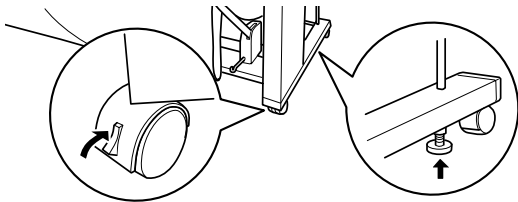
Moving the Printer on the Stand

When you want to transport the printer a short distance, such as within the same building or facility, you can roll the printer on its casters. Follow these steps:

Caution:

Do not roll the printer on angled or uneven surfaces.

1. Make sure that the power cord, interface cable, roll paper spindles and sheet media are removed, and the roll paper cover and lower cover are closed.
2. Release the front casters and retract the stabilizer knobs.



3. Carefully roll the printer to its new location. Relock the casters and extend the stabilizer knobs after moving.

Related Documentation

CPD 10847	EPSON Stylus Pro 9000 series Printer Guide
CPD 10848	EPSON Stylus Pro 9000 series Quick Reference Guide
4009903	EPSON Stylus Pro 9000 Assembly and Setup Instructions
4012670	EPSON Stylus Pro 9500 Assembly and Setup Instructions

