



Color StyleWriter Pro

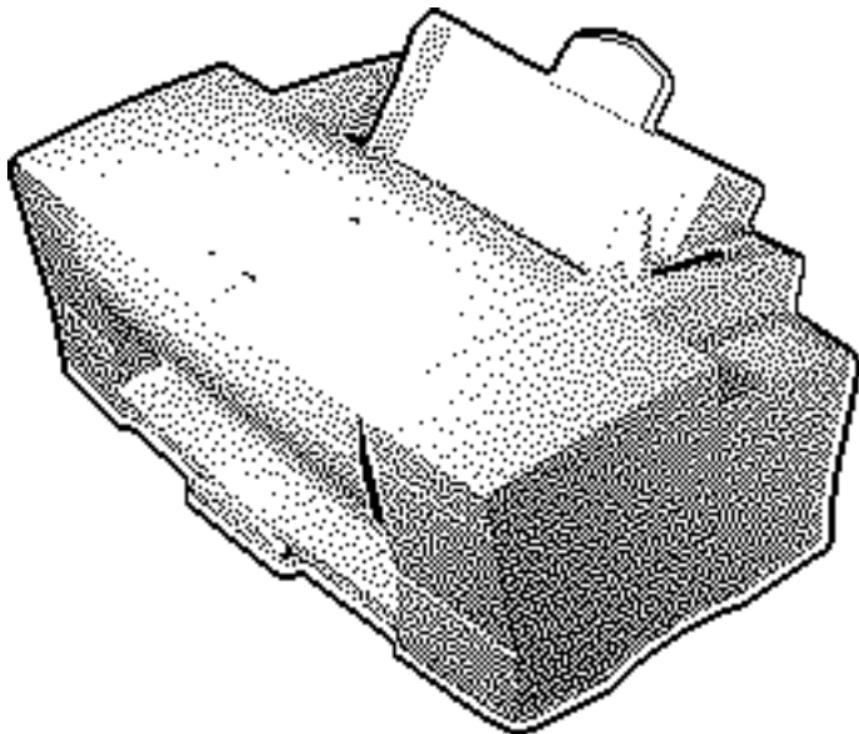




Basics

Color StyleWriter Pro



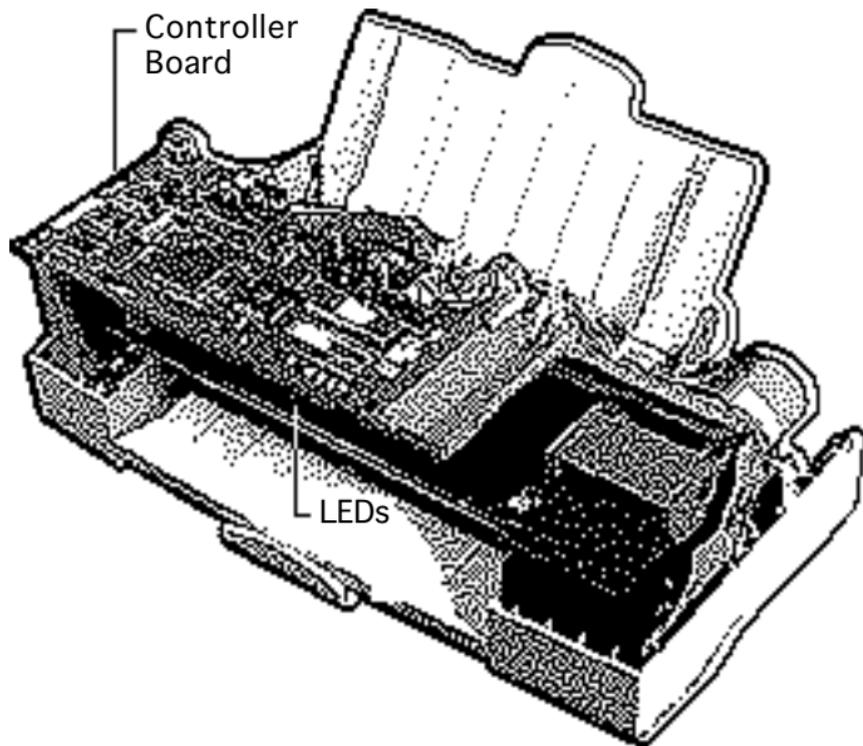


Overview

The Color StyleWriter Pro is a desktop color bubble-jet printer for personal use. It has various features such as high-speed printing, high print quality, printing on plain paper, and a cut sheet feeder.

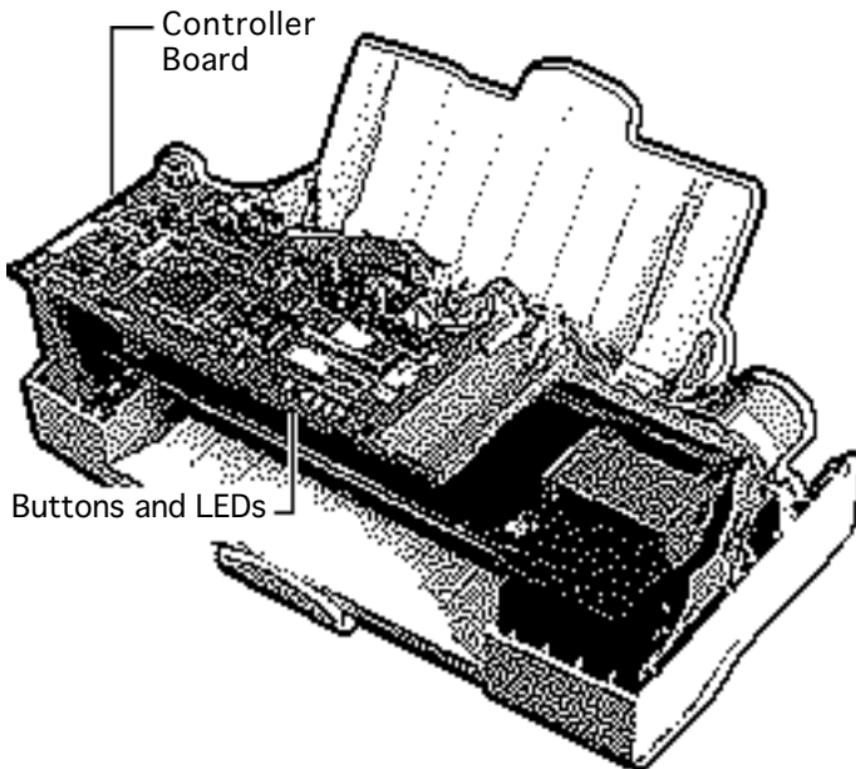
The user can easily replace the print head (64 nozzles, four colors) and ink cartridges (each color has a separate cartridge).





The Color StyleWriter Pro has six LEDs on the controller board which can aid in troubleshooting the printer. See the Troubleshooting chapter for more information.



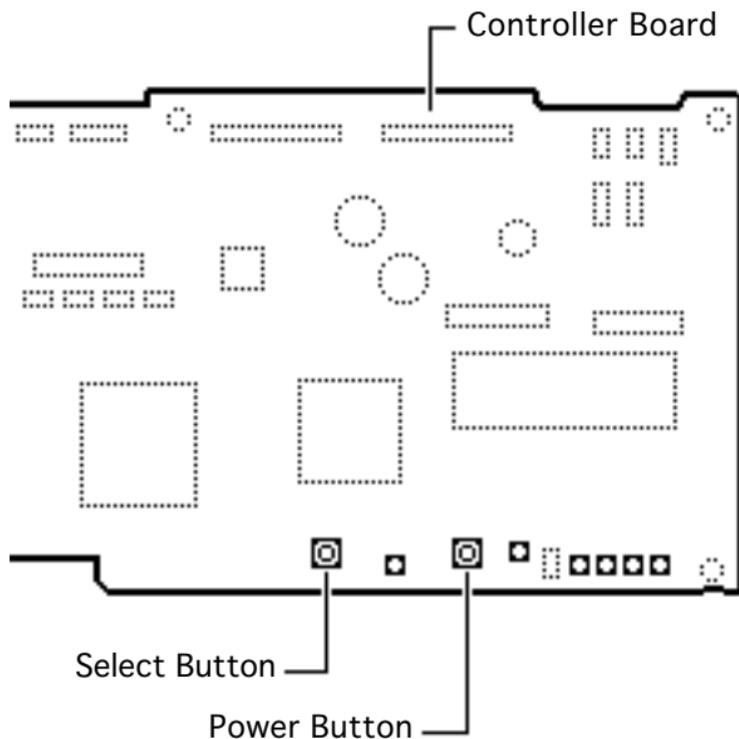


Service Mode

Note: This procedure uses the buttons and LEDs on the controller board to perform service functions, i.e., test pages.

Note: You must remove the top cover and the inner cover to access the controller board. See “Covers” in the Take Apart chapter.





Hold down the power and select buttons and plug in the printer power cord.

Note: The printer will emit a four-tone beep indicating that it is in the service mode.

See the “Color StyleWriter Pro Utility” and “Alignment” in the Adjustments chapter for additional information.

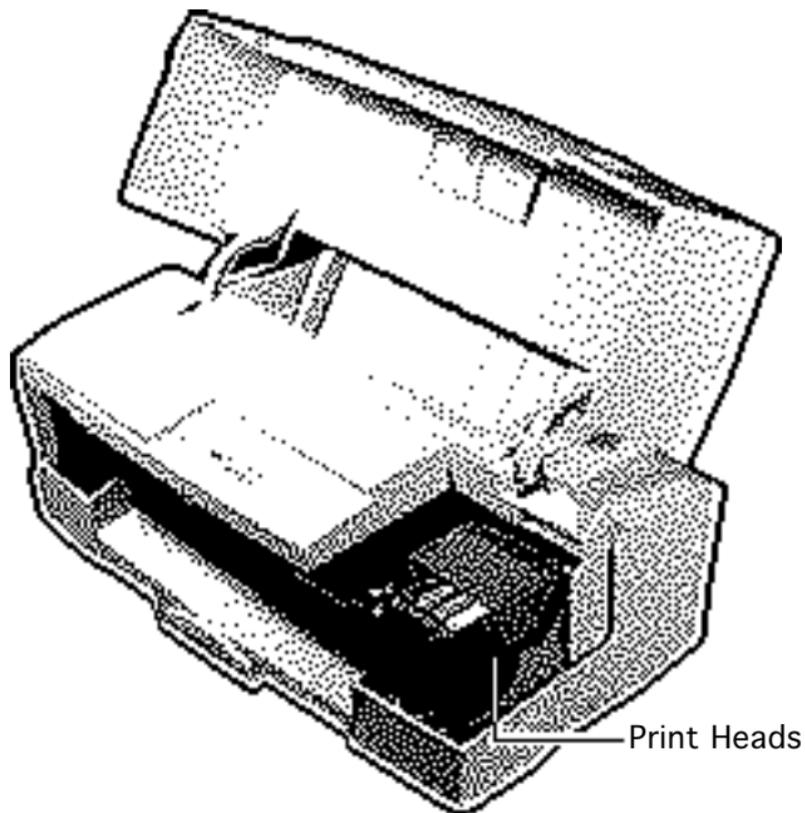




Service Test Page

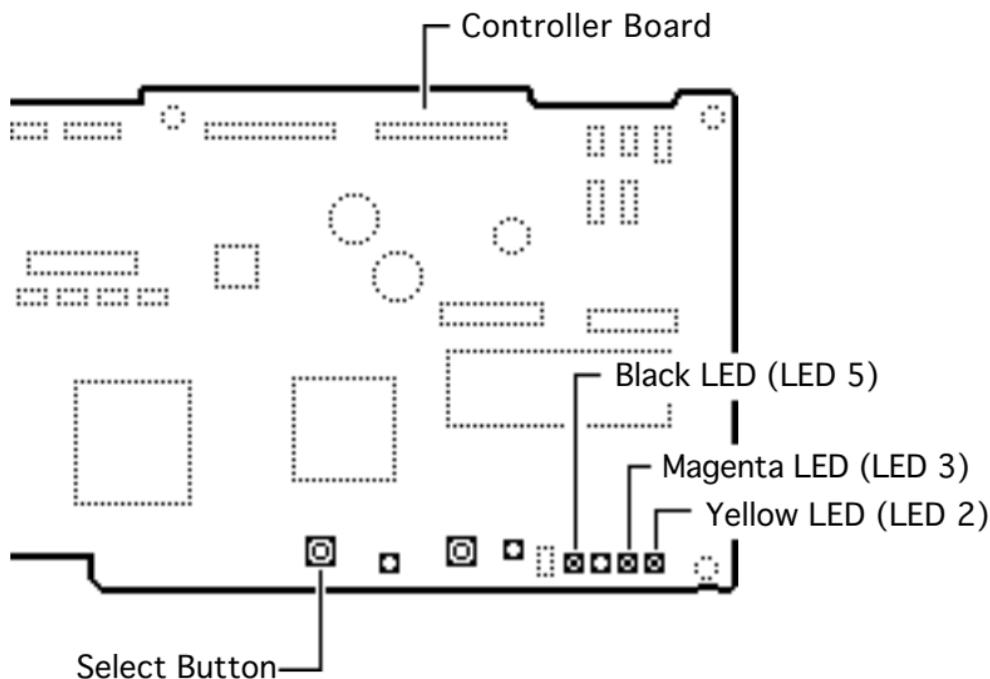
Note: This procedure explains how to print the service test page, which indicates if the print heads need to be aligned. You must be in service mode to print a service test page.

- 1 Place paper in the cut sheet feeder.
- 2 Place printer in service mode. See “Service Mode” in this chapter.





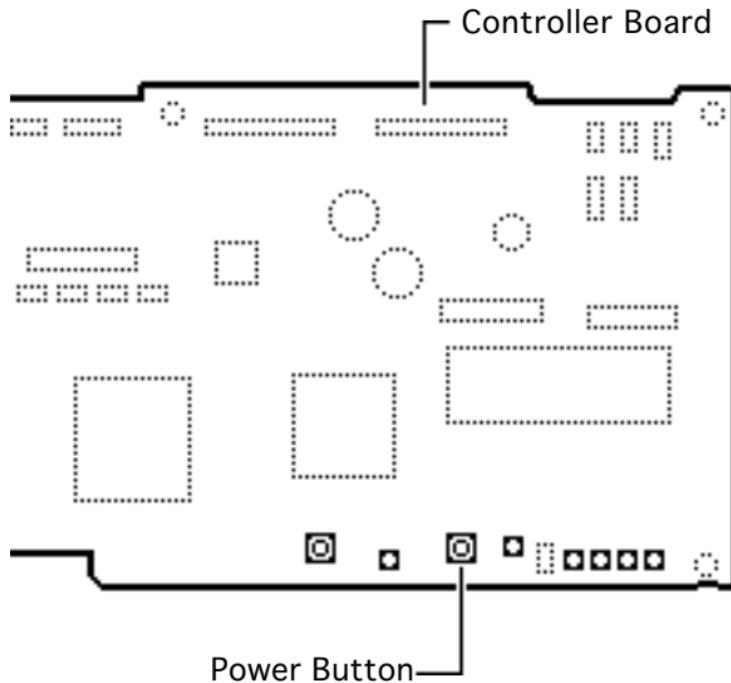
- 3 Press the select button until the black (LED 5), magenta (LED 3), and yellow (LED 2) LEDs light up.





4 Press the power button.

Note: The printer will now print the test page.





Specifications

Color StyleWriter Pro





Characteristics

Print Methods

Serial bubble jet ink-on-demand

Throughput170 cps (10 cpi) text/standard speed mode
240 cps (10 cpi) text/high speed mode**Print Head**

1 x 64 nozzles for each color

Print Head Life

Thousands of pages

Input Buffer

60 KB





Graphics

Resolution

360 dpi (best mode)

180 dpi (draft mode)





Paper Handling

Paper	Plain paper, coated (recommended for color picture output)
Cut Sheets	LTR, LGL, A4 U.S. Letter (LTR): 8.5 x 11 in. (215.9 mm x 279.4 mm) U.S. Legal (LGL) : 8.5 x 14 in. (215.9 mm x 355.6 mm) A4: 210 mm x 297 mm Weight: 16–24 lbs. Capacity: 100 sheets (A4, LTR)
Envelopes	Commercial number 10, monarch, and other sizes Capacity: 15 envelopes





Transparencies

Coated transparencies, most ink jet transparencies

Back-Print Film

Letter, A4

For superior graphics and imaging results, premium paper and back-print film are recommended





Ink Cartridges

Type	Color ink cartridges (four available)
Ink Color	Black, cyan, magenta, yellow
Ink Amount	Approx. 8 g (per cartridge)
Shelf Life	6 months (installed in printer) 18 months (in original package)
Cartridge Life	Text: Approx. 315 pages (A4/LTR) at 5% coverage per color





Environmental

Acoustic Noise Level Approx. 45 dB (reference level)

Temperature 59–86°F (15–30°C)

Humidity 10–80% (no condensation)





Electrical

Electrical Requirements	120 V, 60 Hz, 1 amp 220-240 V, 50 Hz, 0.5 amp
Power Consumption	28 W maximum





Physical

Dimensions

Height: 7.2 in. (184 mm)

Width: 16.5 in. (418 mm)

Depth: 10.1 in. (256 mm)

Weight

Approx. 11 lbs. (5 kg)





Troubleshooting

Color StyleWriter Pro





General

The Symptom Charts included in this chapter will help you diagnose specific symptoms related to your product. Because cures are listed on the charts in the order of most likely solution, try the first cure first. Verify whether or not the product continues to exhibit the symptom. If the symptom persists, try the next cure. (Note: If you have replaced a module, reinstall the original module before you proceed to the next cure.)

If you are not sure what the problem is, or if the Symptom Charts do not resolve the problem, refer to the Flowchart for the product family.

For additional assistance, contact Apple Technical Support.

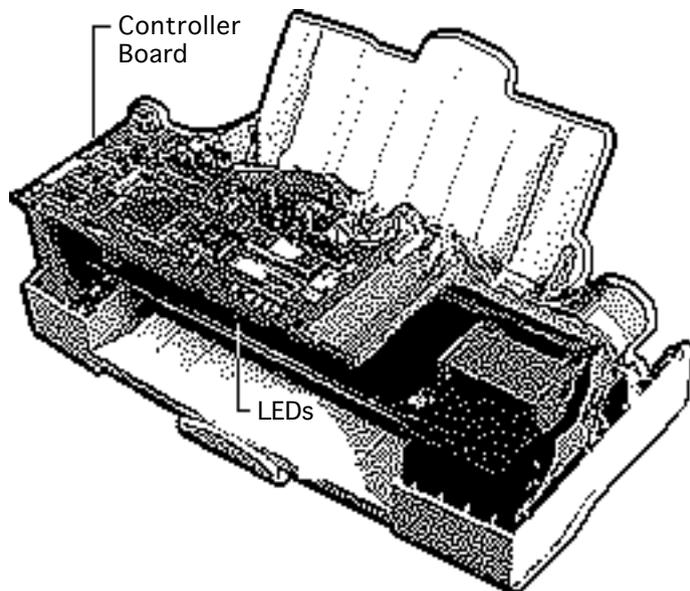




LEDs

The Color StyleWriter Pro has six LEDs on the controller board which can aid in troubleshooting the printer. The six LEDs are:

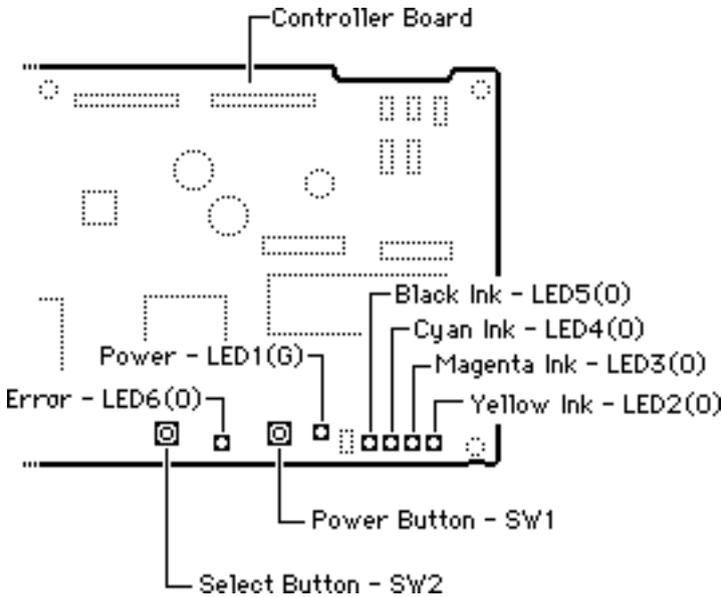
- Error LED
- Power LED
- K (black) Ink LED
- C (cyan) Ink LED
- M (magenta) Ink LED
- Y (yellow) Ink LED





The power button and the select button are used in service mode to choose servicing options. Pressing the select button toggles the ink LEDs and pressing the power button selects the appropriate option.

See “Service Mode” in the Basics chapter for additional information.





The LEDs indicate the state of the printer or whether an error has occurred (e.g., carriage control error, paper jam).

The following charts provide a summary of printer states and error codes.

Printer State LED Indication Summary Power LED	LEDs						Notes
	Error 6	Power 1	Ink 5 4 3 2				
Power off							
Power on							
Transition of power on/off							

Printer State LED Indication Summary Ink LED	LEDs						Notes
	Error 6	Power 1	Ink 5 4 3 2				
Normal condition							Power on
Error in other than print head							Affected LED is on
Error in print head							Affected LED blinks

Printer State Normal LED Indication In Service Mode	LEDs						Notes
	Error 6	Power 1	Ink 5 4 3 2				
Entering service mode							Emits four-tone chord
EEPROM download mode							Affected LED is on
Initial cleaning							Affected LED blinks
Service Test Page							

LED Legend:		OFF		ON		BLINKING
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If an error is indicated, check the following chart, then go to “Error LEDs” in the Symptom Charts.

Error Indication	LEDs						Notes
	Error 6	Power 1	5	4	3	2	
Paper empty/jam							
Ink absorber plate error							
Ink cartridge empty							Empty color blinks
Carriage control error							
Recovery error							
Home position sensor error							Carriage sensor
Linear encoder error							
Cleaner sensor error							
Paper feed motor error							
Cut sheet feeder sensor error							
Thermistor error							
ROM error							
RAM error							
Ink absorber full error							
EEPROM error							
Gate array error							
Print head error							

LED Legend: OFF ON BLINKING





Symptom Charts

Operation

No power

- 1 Check power cable connections.
- 2 Replace power cord.
- 3 Replace fuse.
- 4 Replace power supply.

Does not print

- 1 Turn on printer and restart computer.
- 2 Check interface cable connections.
- 3 Replace printer driver.

Printer takes long time to initialize at first startup

Printer normally takes 5–7 minutes to prepare print head at first startup.





Paper

- | | |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Paper sticks together | <ol style="list-style-type: none">1 Remove excess sheets from paper tray.2 Use specified media only.3 Check that settings in Page Setup menu are correct.4 Fan paper before putting in paper tray. |
| Paper skews | <ol style="list-style-type: none">1 Remove excess sheets from paper tray.2 Use specified media only.3 Stack paper flush against left side of paper tray and adjust paper guide.4 Check rollers. Clean or replace if necessary. |
| Paper jams during loading, before printing | Carefully remove paper by hand. |





Paper (Continued)

Paper jams inside printer

Pull out paper in direction of paper output. (Do not pull paper back toward you.)

Paper jams during output, after printing

Pull out paper in direction of paper output.





Print Quality

Missing dots and/or white streaks

- 1 Perform “Nozzle Check” and “Print Head Cleaning”. See Additional Procedures chapter.
- 2 Make sure ink cartridges are set firmly.
- 3 Use specified media only.
- 4 Replace print head unit.
- 5 Replace carriage board. Run the Color StyleWriter Pro Utility (see Adjustments chapter).
- 6 Replace controller board. Run the Color StyleWriter Pro Utility (see Adjustments chapter).

Blurring and/or smudging

- 1 Adjust print head position lever all the way down.
- 2 Use specified media only.
- 3 Make sure print head is in correct position. If necessary, perform “Alignment”. See Adjustments chapter.
- 4 Perform “Print Head Cleaning.” See Additional Procedures chapter.





Error LEDs

- | | |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Paper jam/error | <ol style="list-style-type: none">1 Pull out paper in direction of paper output.2 Use specified media only.3 Stack paper flush against left side of paper tray and adjust paper guide.4 Check rollers. Clean or replace if necessary.5 Check for foreign objects in paper path.6 Replace controller board. Run the Color StyleWriter Pro Utility (see Adjustments chapter). |
| Ink cartridge empty | <ol style="list-style-type: none">1 Replace ink cartridge.2 Perform "Print Head Cleaning." See Additional Procedures chapter.3 Perform "Print Head Purging." See Additional Procedures chapter4 Replace purge unit.5 Replace controller board. Run the Color StyleWriter Pro Utility (see Adjustments chapter). |





Error LEDs (Continued)

Carriage control
error

- 1 Check carriage unit path for obstructions.
- 2 Replace carriage motor.
- 3 Replace linear encoder.
- 4 Replace home position sensor.
- 5 Replace carriage ribbon cable.
- 6 Replace controller board. Run the Color StyleWriter Pro Utility (see Adjustments chapter).

Carriage home
position sensor error

- 1 Check carriage unit path for obstructions.
- 2 Replace carriage motor.
- 3 Replace linear encoder.
- 4 Replace home position sensor.
- 5 Replace carriage ribbon cable.
- 6 Replace controller board. Run the Color StyleWriter Pro Utility (see Adjustments chapter).





Error LEDs (Continued)

Linear encoder error	<ol style="list-style-type: none">1 Make sure linear encoder is installed in correct orientation.2 Replace linear encoder.3 Replace controller board. Run the Color StyleWriter Pro Utility (see Adjustments chapter).
Cleaner sensor error	<ol style="list-style-type: none">1 Replace purge unit.2 Replace carriage unit.3 Replace controller board. Run the Color StyleWriter Pro Utility (see Adjustments chapter).
Paper feed motor error	<ol style="list-style-type: none">1 Replace paper feed motor.2 Replace controller board. Run the Color StyleWriter Pro Utility (see Adjustments chapter).
Ink absorber plate error	Replace the ink absorber plates. Run the Color StyleWriter Pro Utility (see Adjustments chapter).





Error LEDs (Continued)

Cut sheet feeder
sensor error

- 1 Check paper feed path for obstructions.
- 2 Check that scale holder and shaft spring at both sides of carriage are holding carriage assembly properly. See “Carriage Unit and Board” in Take Apart chapter.
- 3 Check bushing on left side of printer frame. If it is damaged or missing, replace it. The platen and roller assembly will not be seated properly without the bushing. See “Platen and Roller” in Take Apart chapter.
- 4 Replace cut sheet feeder.
- 5 Replace controller board. Run the Color StyleWriter Pro Utility (see Adjustments chapter).

Thermistor error

- 1 Replace carriage ribbon cable.
- 2 Replace carriage board. Run the Color StyleWriter Pro Utility (see Adjustments chapter).





Error LEDs (Continued)

ROM error	Replace controller board. Run the Color StyleWriter Pro Utility (see Adjustments chapter).
RAM error	Replace controller board. Run the Color StyleWriter Pro Utility (see Adjustments chapter).
EEPROM error	Replace controller board. Run the Color StyleWriter Pro Utility (see Adjustments chapter).
Gate array error	Replace controller board. Run the Color StyleWriter Pro Utility (see Adjustments chapter).





Error LEDs (Continued)

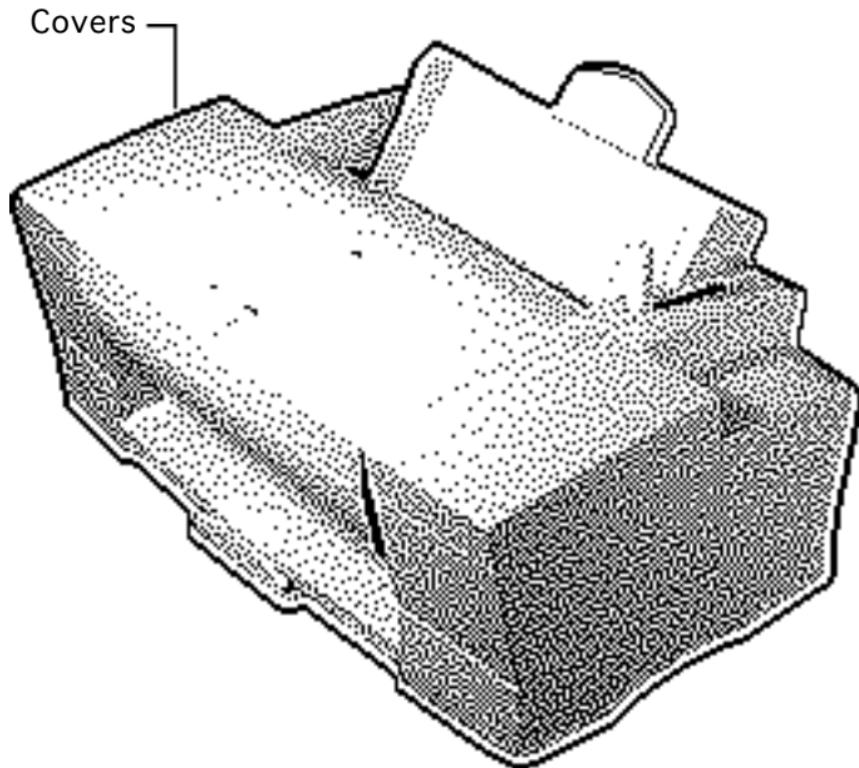
Print head error	<ol style="list-style-type: none">1 Make sure the print head cover is fastened down securely.2 Perform “Print Head Cleaning.” See Additional Procedures chapter.3 Replace print head.4 Replace carriage ribbon cable.5 Replace carriage board. Run the Color StyleWriter Pro Utility (see Adjustments chapter).
Ink absorber plate full error	Replace the ink absorber plates. Run the Color StyleWriter Pro Utility (see Adjustments chapter).
Recovery error	Check the paper feed clutch on the right side of the platen. Verify it is in the correct position.





Take Apart
Color StyleWriter Pro



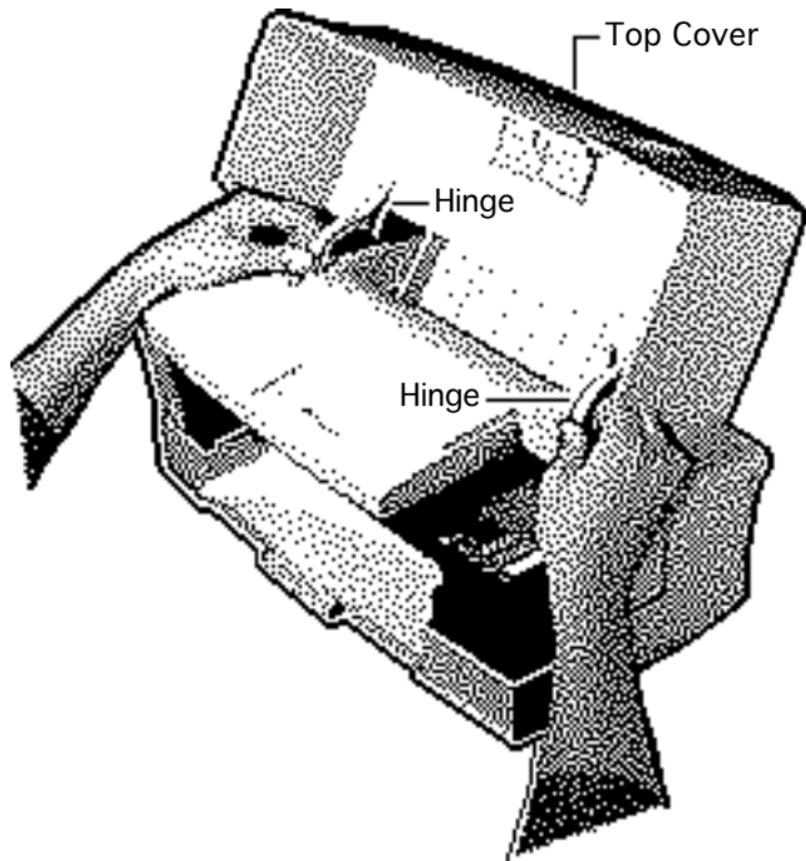


Covers

No preliminary steps are required before you begin this procedure.

Note: The Color StyleWriter Pro has three covers—outer, inner, and main. This procedure includes the removal of all covers on the printer.



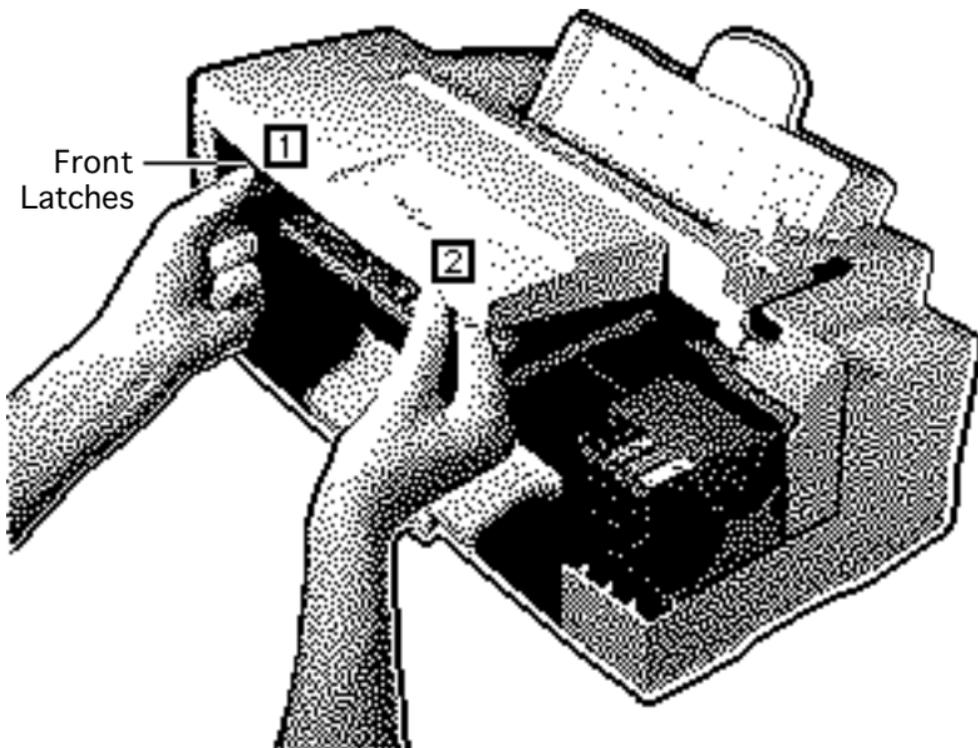


- 1 Raise the top cover.
- 2 Gently press in the two hinges and lift off the top cover.



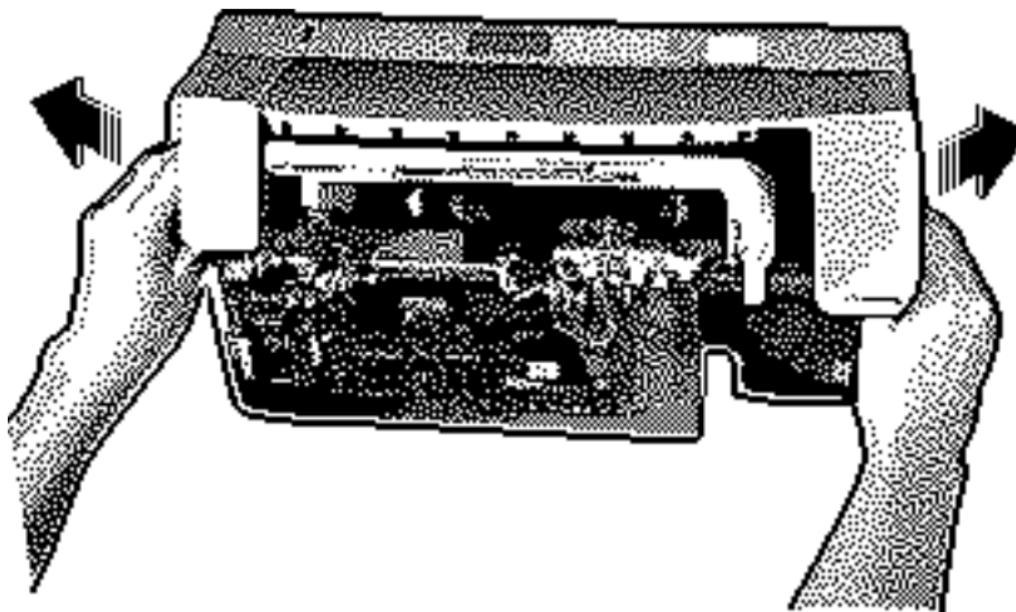


- 3 Release the two front latches and remove the inner cover.



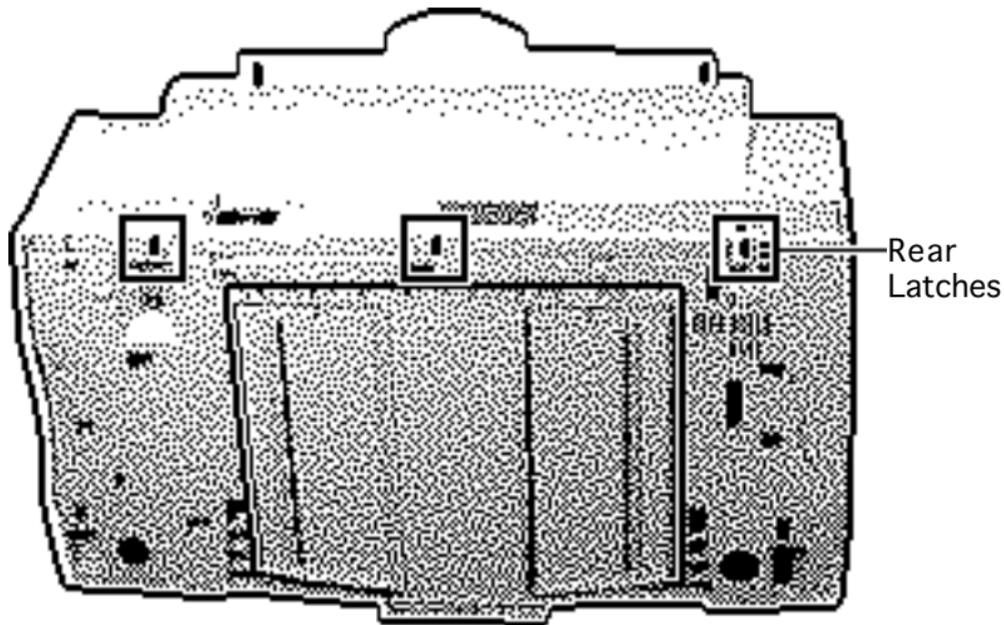


- 4 Release the mounting latches.





- 5 Lay the printer on the front side.
- 6 Release the rear latches and remove the main cover.
- 7 Stand the printer upright.



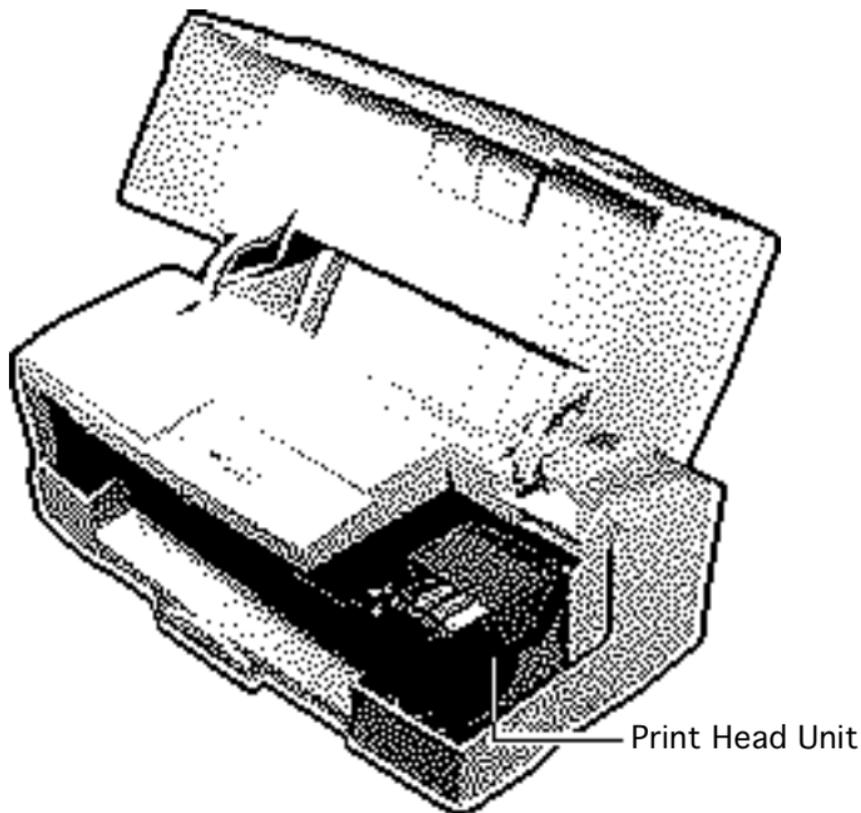


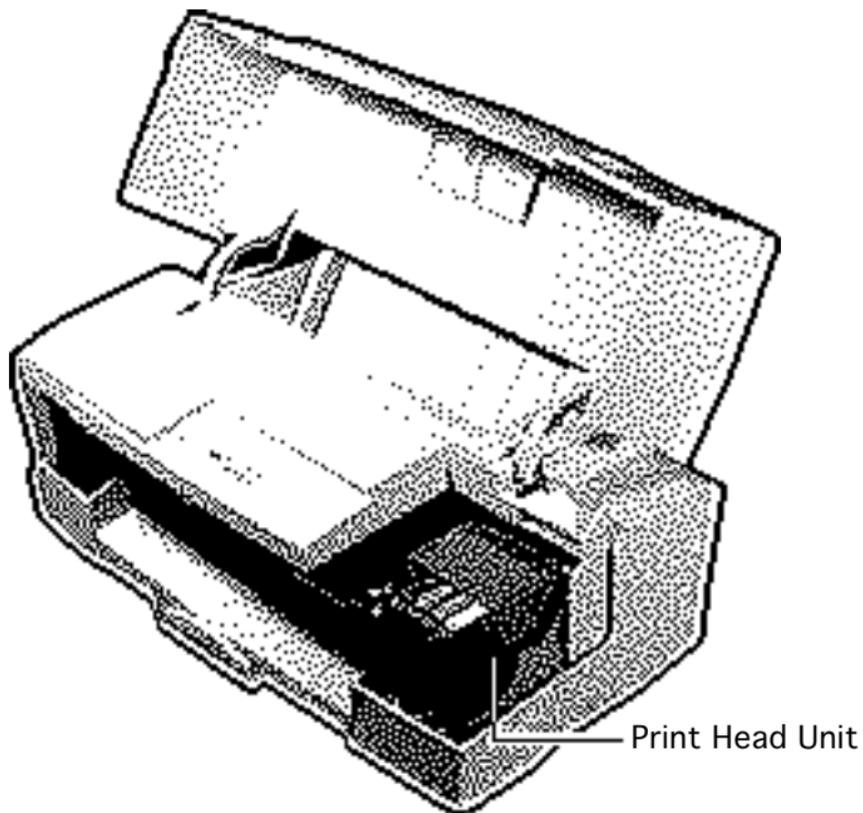
Print Head Unit

No preliminary steps are required before you begin this procedure.

Caution: Review the ESD precautions in Bulletins/ Safety.

Caution: Do not get the printer's ink on your hands or clothes. Although the ink is water soluble, it contains dyes that will stain.





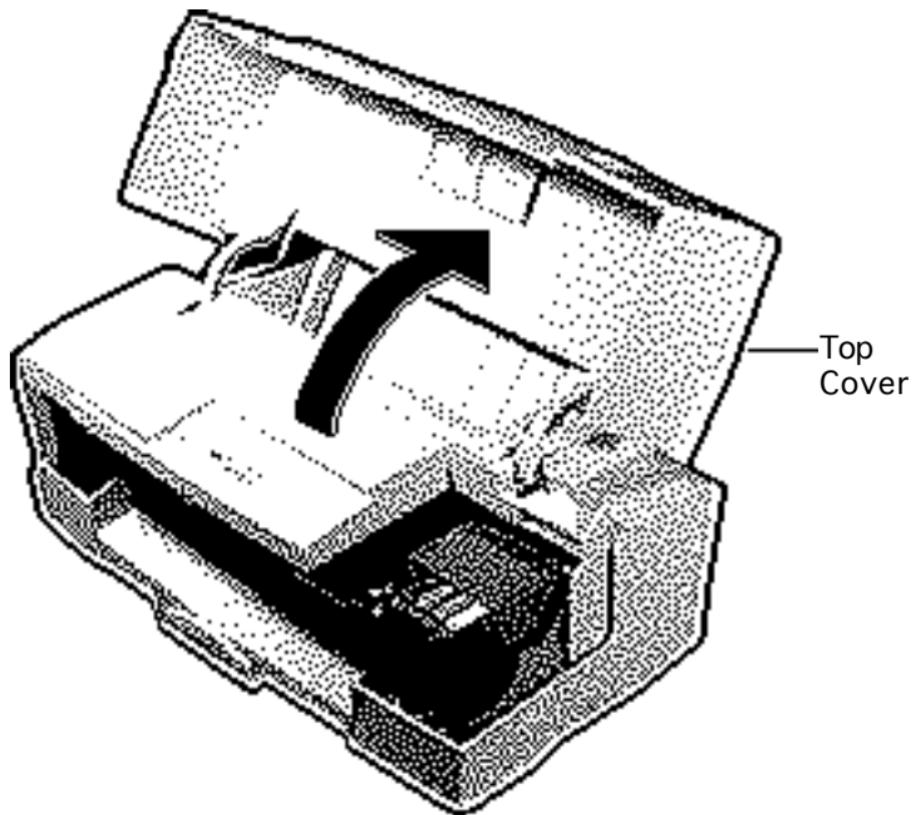
Caution: To prevent the print nozzles from clogging, do not touch or wipe them when removing the print head.

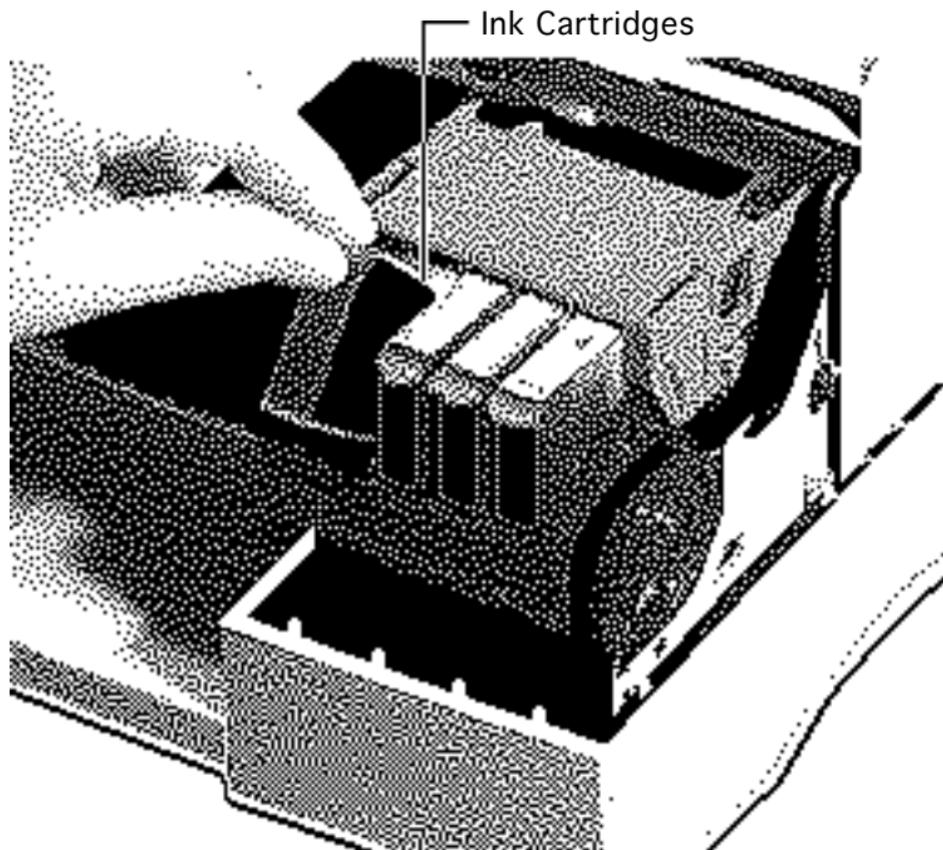
Caution: Do not leave the print heads uncapped for more than 12 hours or they will dry out.





- 1 Open the top cover.



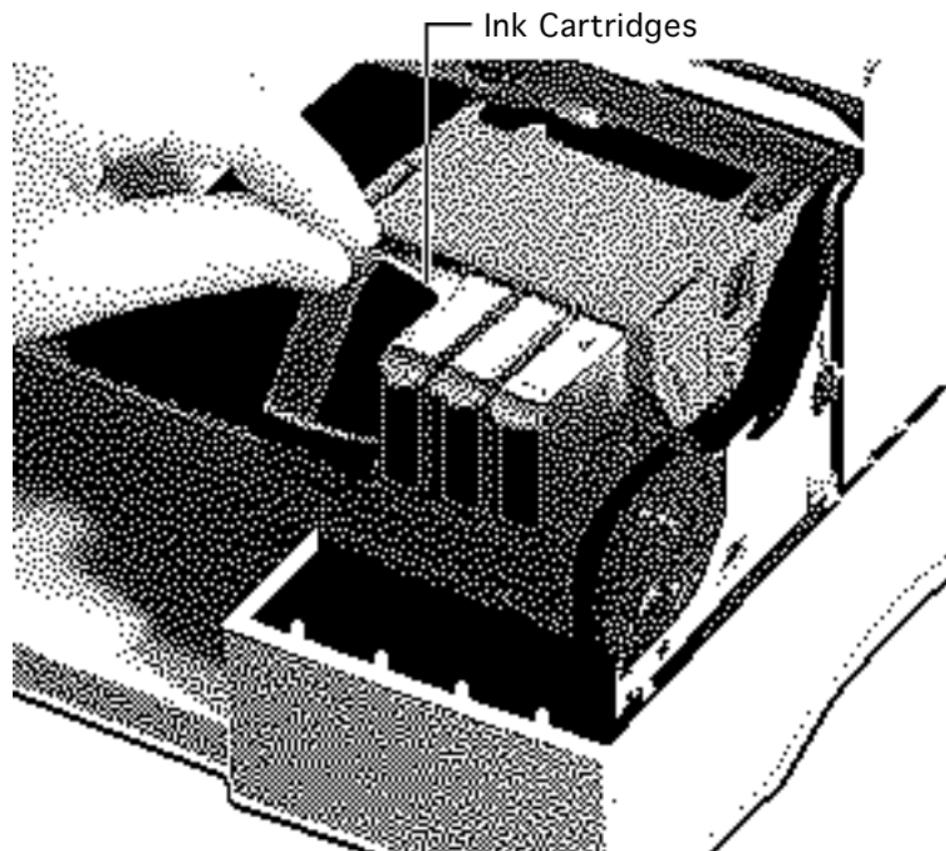


- 2 **Note:** After removing the ink cartridges from the printer, place each ink cartridge on a piece of paper. Keep them in the order removed; it will make replacement easier.

Grasp the top edge and gently lift up and pull out the ink cartridge.

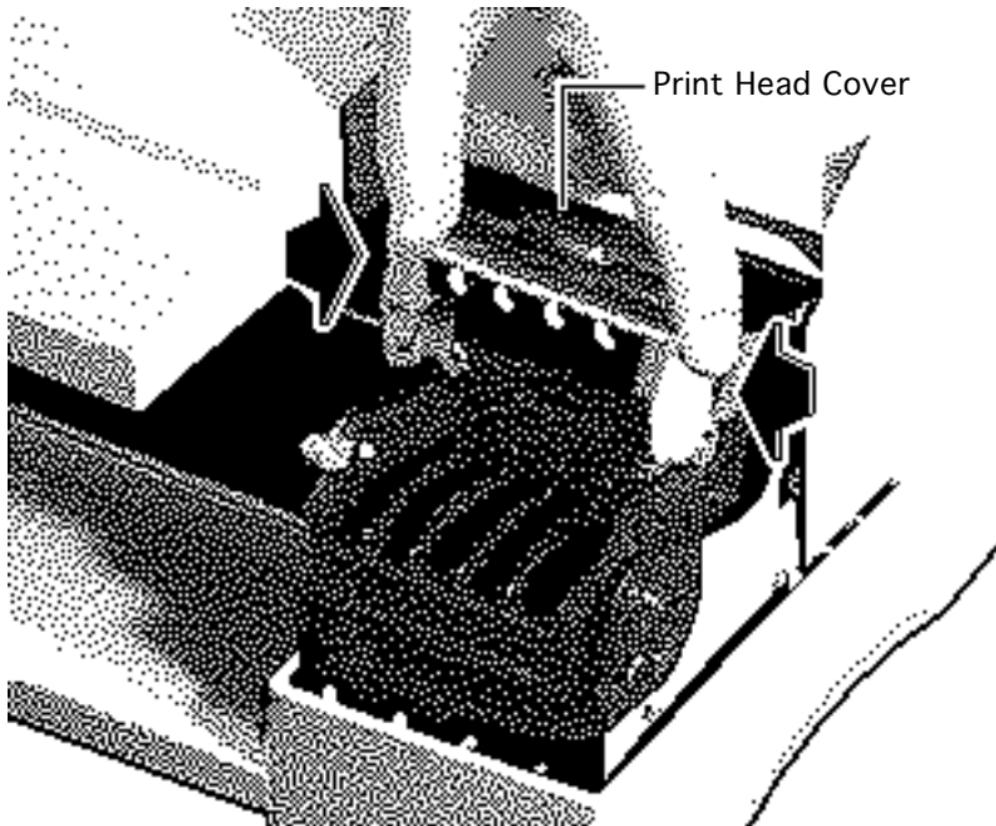
- 3 Repeat for each of the three remaining cartridges.





- 4 **Replacement Note:** Do not shake the ink cartridges or the ink may leak.





- 5 Push in both latches and open the print head cover.

Replacement Note:

When closing the print head cover, press firmly until you hear two clicks and the cover will not go down further. The cover should be completely horizontal. Failure to close the print head cover properly will cause print head failure.



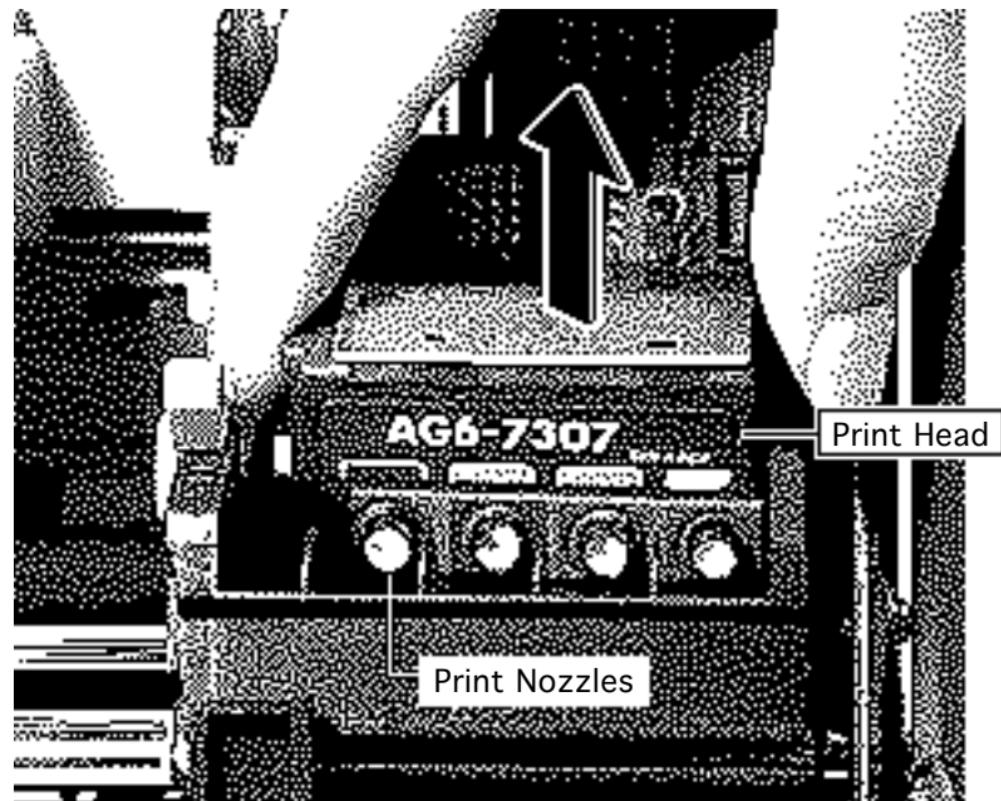


- 6 **Note:** To prevent the print nozzles from clogging, do not touch or wipe them.

Grasp the print head and gently remove it from the printer.

- 7 Place the print head on a piece of paper.

Replacement Note:
Before installing a new print head, remove the tape that covers the print nozzles.



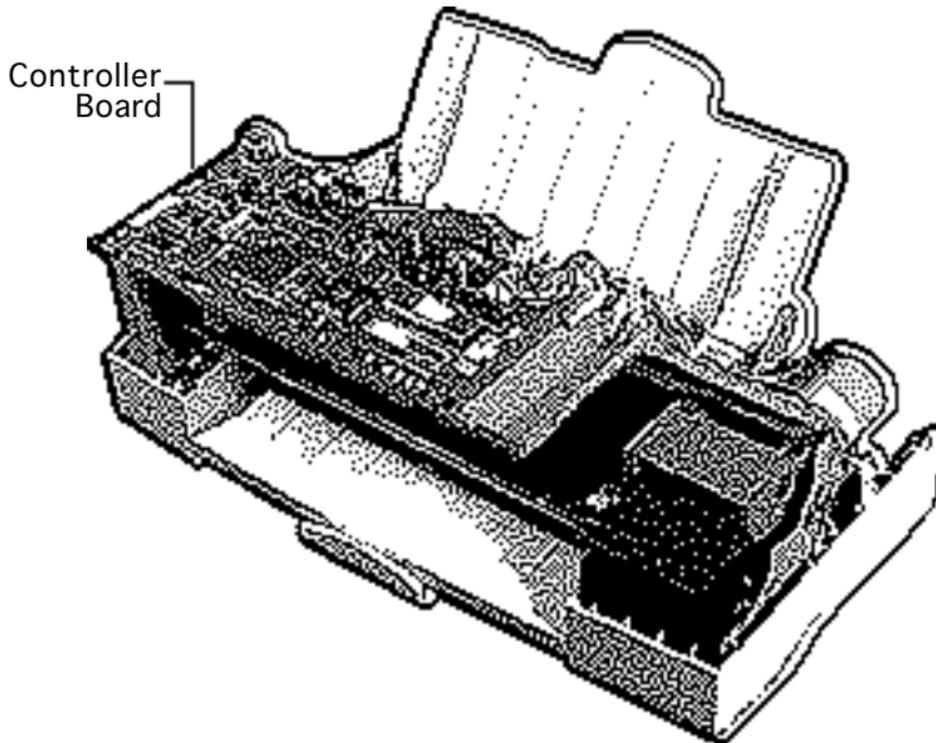


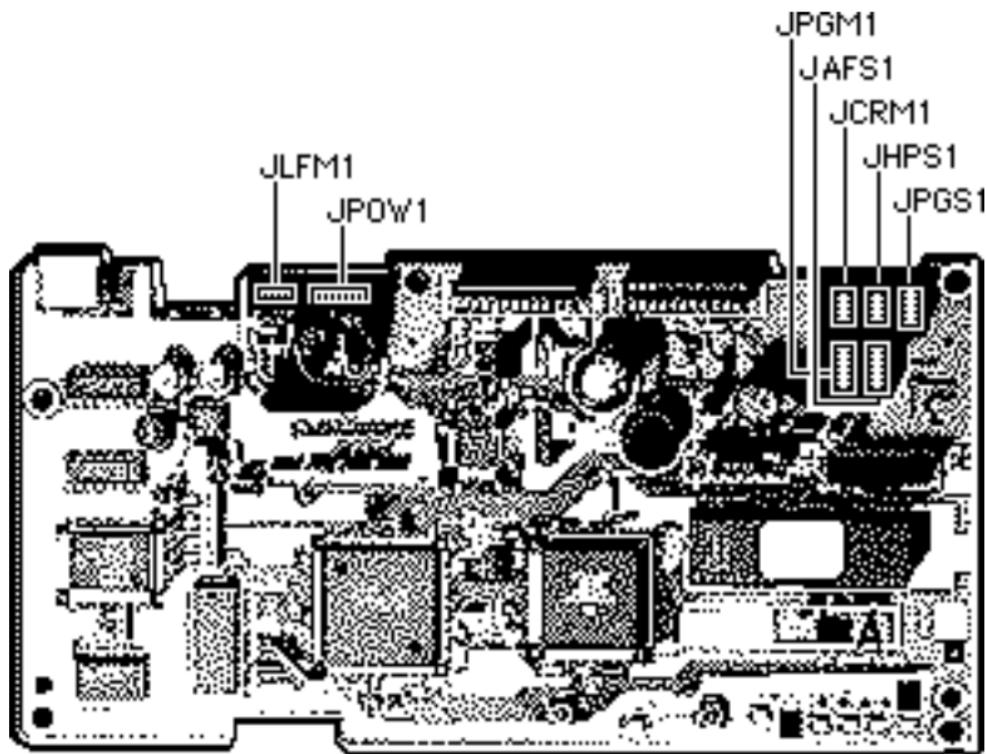
Controller Board

Before you begin, remove the covers.

Caution: Review the ESD precautions in Bulletins/ Safety.

Note: After replacing the controller board, it is necessary to run the Color StyleWriter Pro Utility. See “Color StyleWriter Pro Utility” in the Adjustments chapter.





1 Disconnect the following connectors from the controller board:

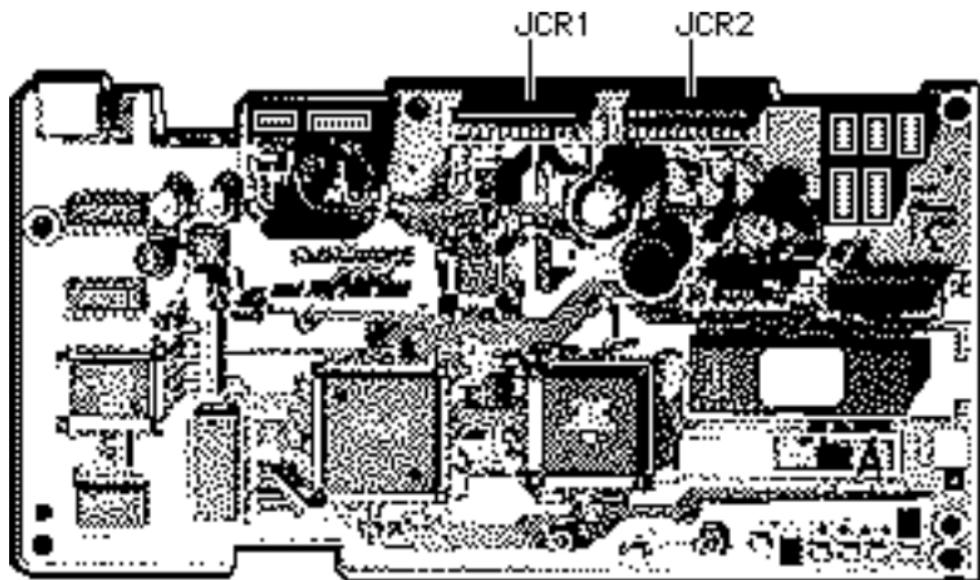
- LFM1
- JPOW1
- JCRM1
- JHPS1
- JPGS1
- JPGM1
- JAFS1

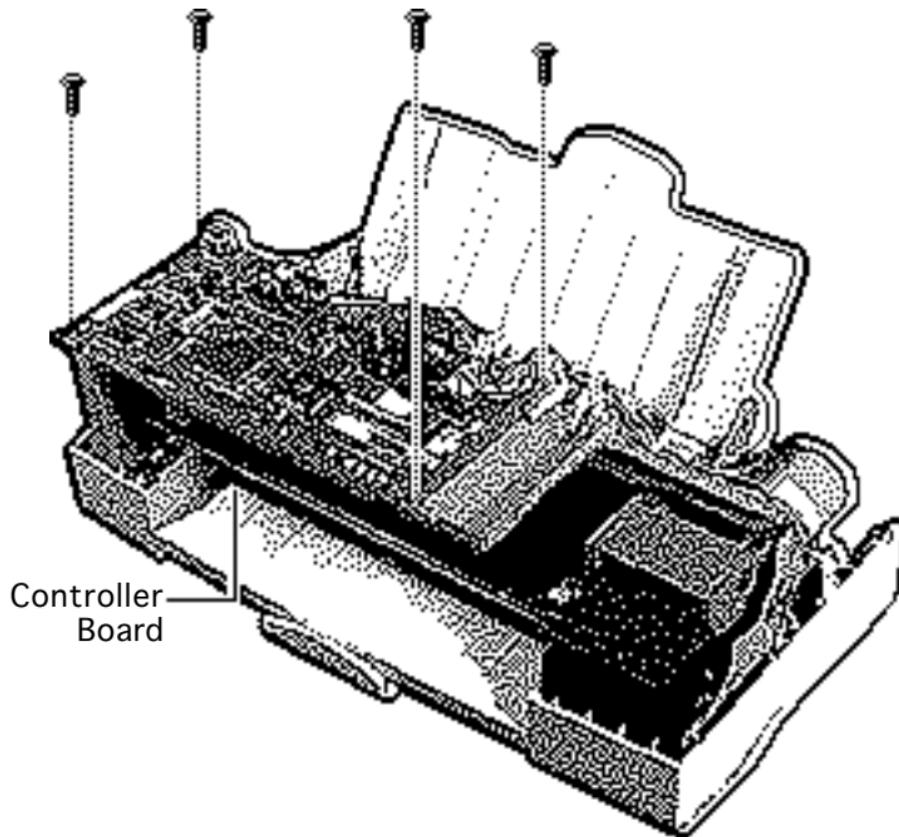




- 2 Disconnect the following ribbon cables from the controller board:

- JCR1
- JCR2





- 3 Using a Phillips screwdriver, remove the four mounting screws.
- 4 Remove the controller board.

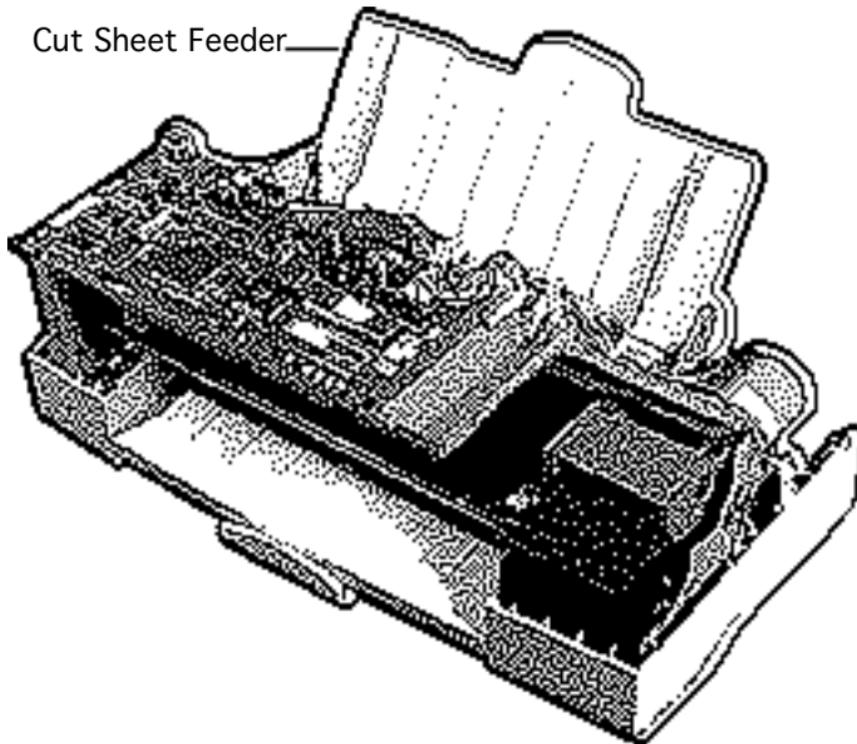




Cut Sheet Feeder

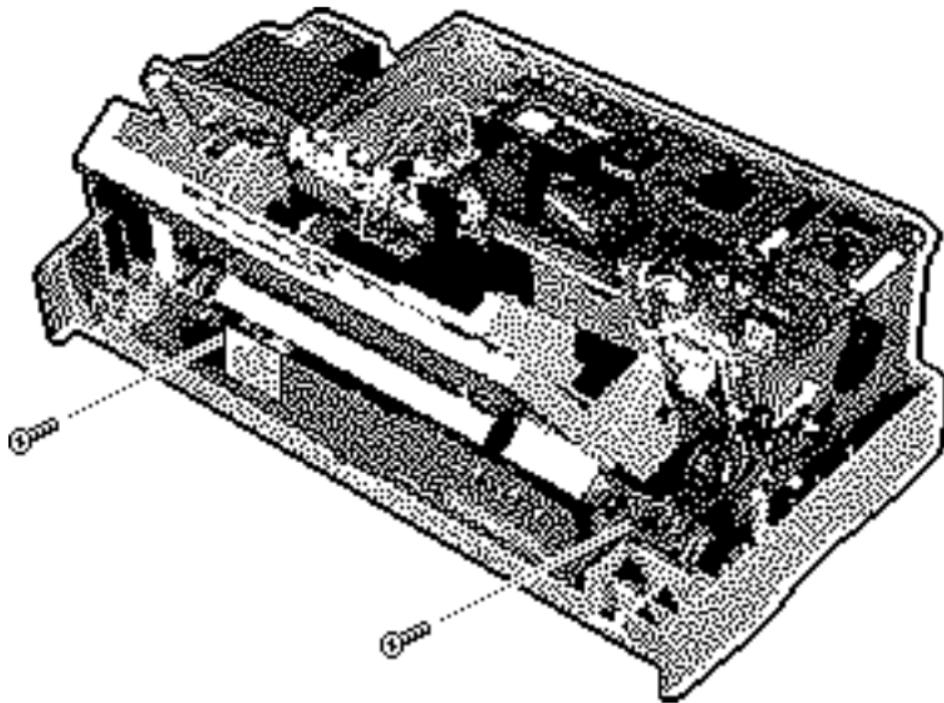
Before you begin, remove the covers.

Caution: Review the ESD precautions in Bulletins/ Safety.



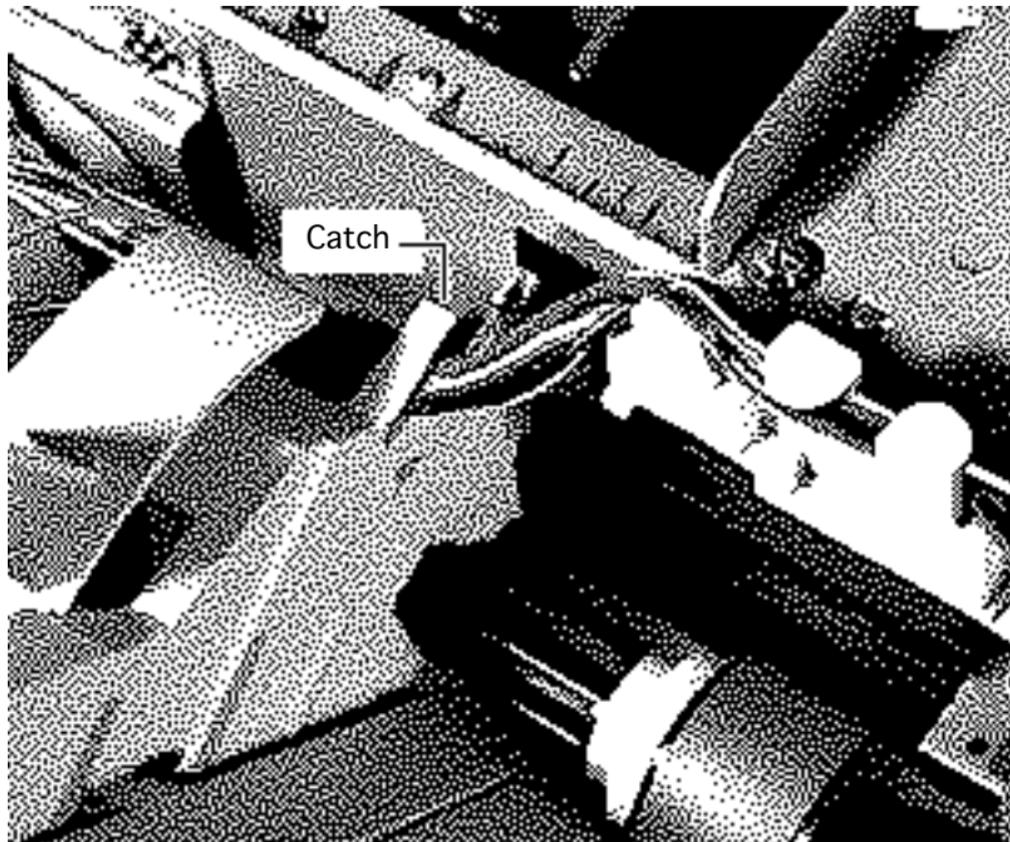


- 1 Using a Phillips screwdriver, remove the two mounting screws.



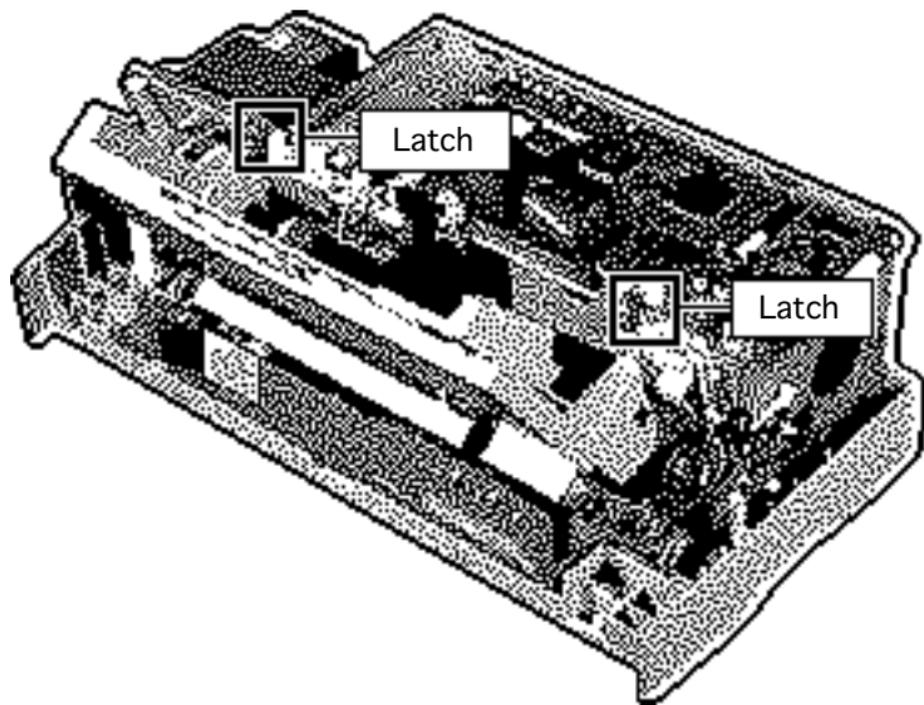


- 2 Remove the wires from the catch.





- 3 Press in the two latches and remove the sheet feeder from the printer.





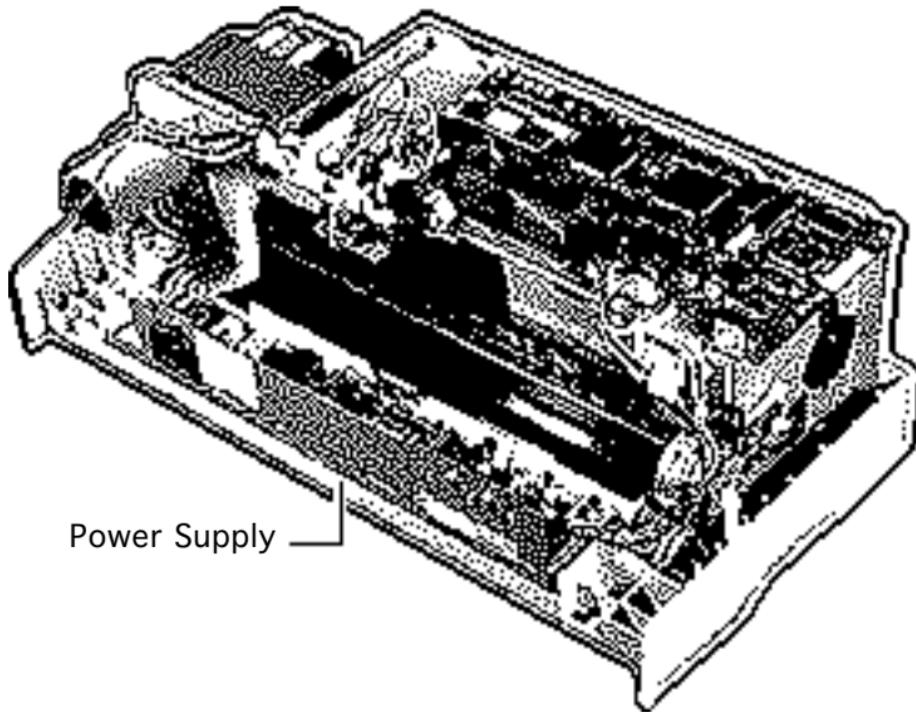
Power Supply

Before you begin, remove the following:

- Covers
- Cut sheet feeder

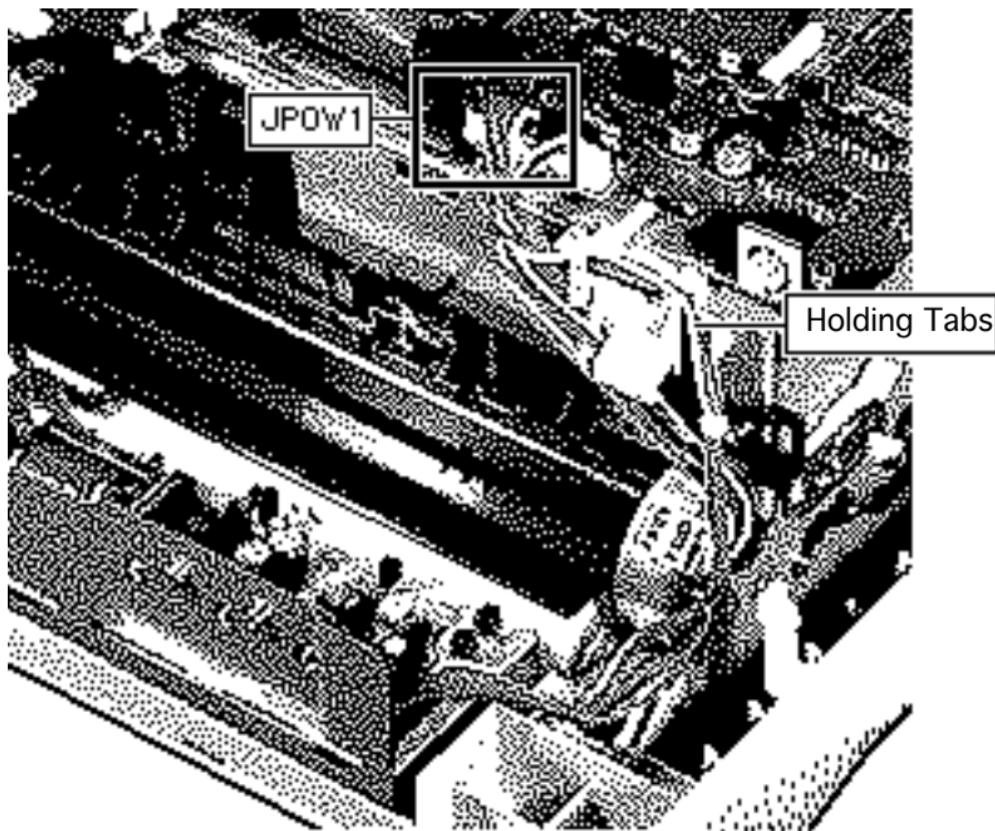
Caution: Review the ESD precautions in Bulletins/ Safety.

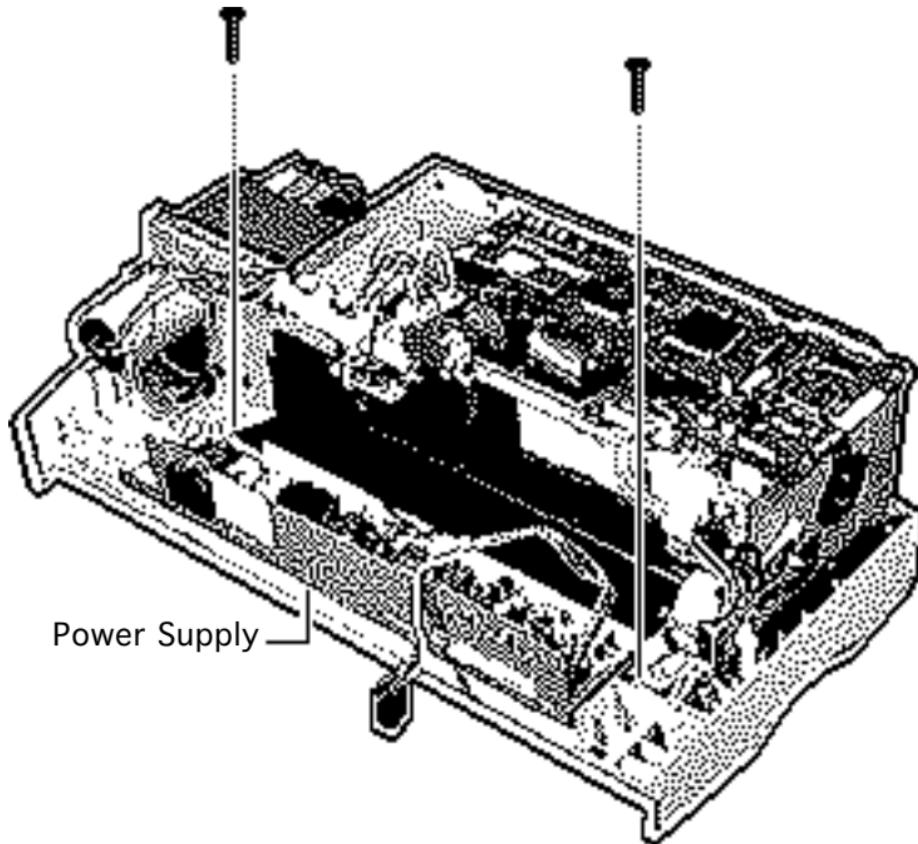
Note: After replacing the power supply, it is necessary to run the Color StyleWriter Pro Utility. See “Color StyleWriter Pro Utility” in the Adjustments chapter.





- 1 Disconnect connector JPOW1 from the controller board.
- 2 Release the wires from the holding tabs.





- 3 Using a Phillips screwdriver, loosen the two mounting screws and remove the power supply.



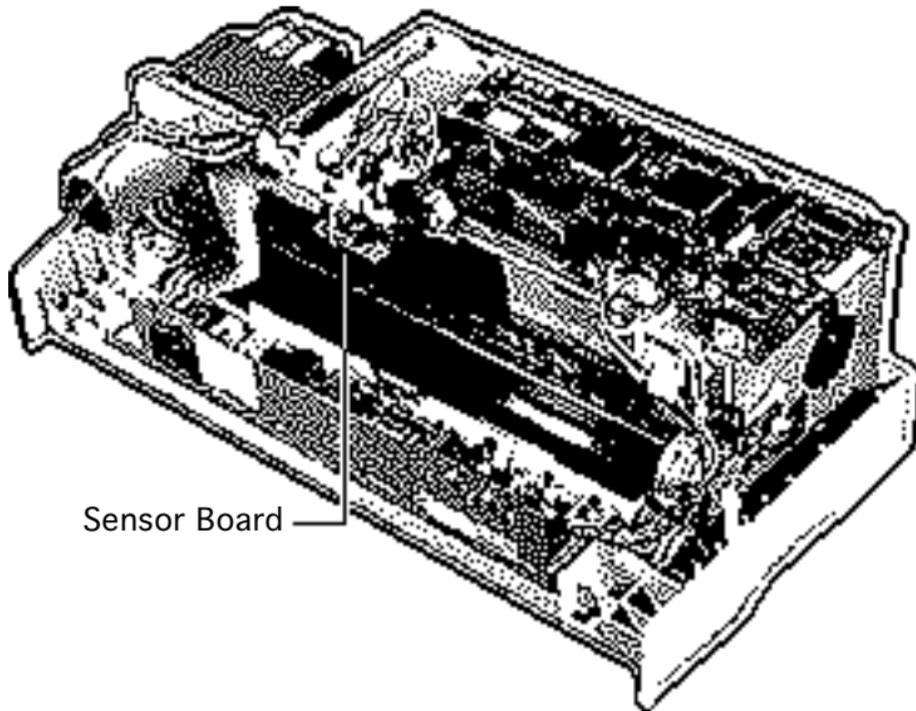


Sensor Board

Before you begin, remove the following:

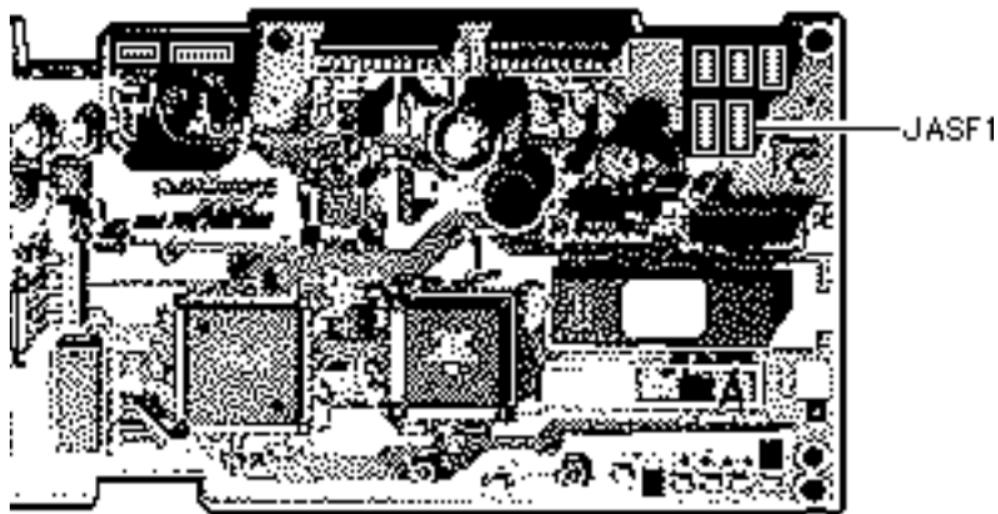
- Covers
- Cut sheet feeder

Caution: Review the ESD precautions in Bulletins/Safety.



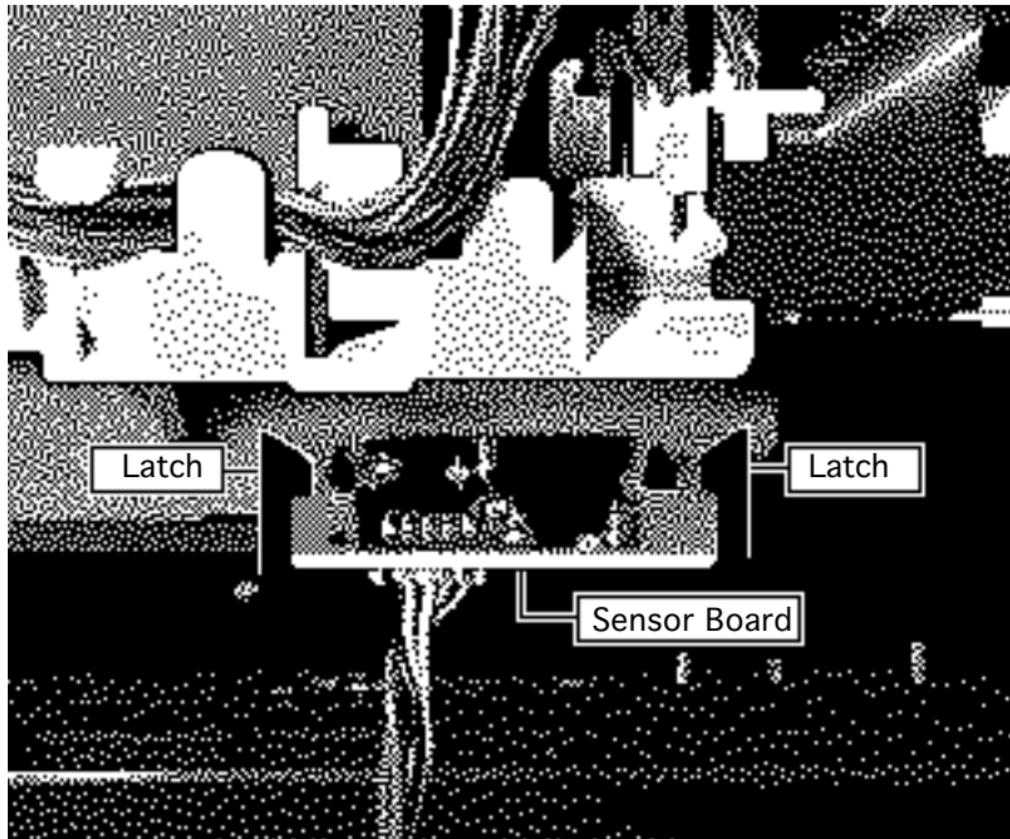


- 1 Disconnect connector JASF1 from the controller board.





- 2 Push out the two mounting latches and remove the sensor board.





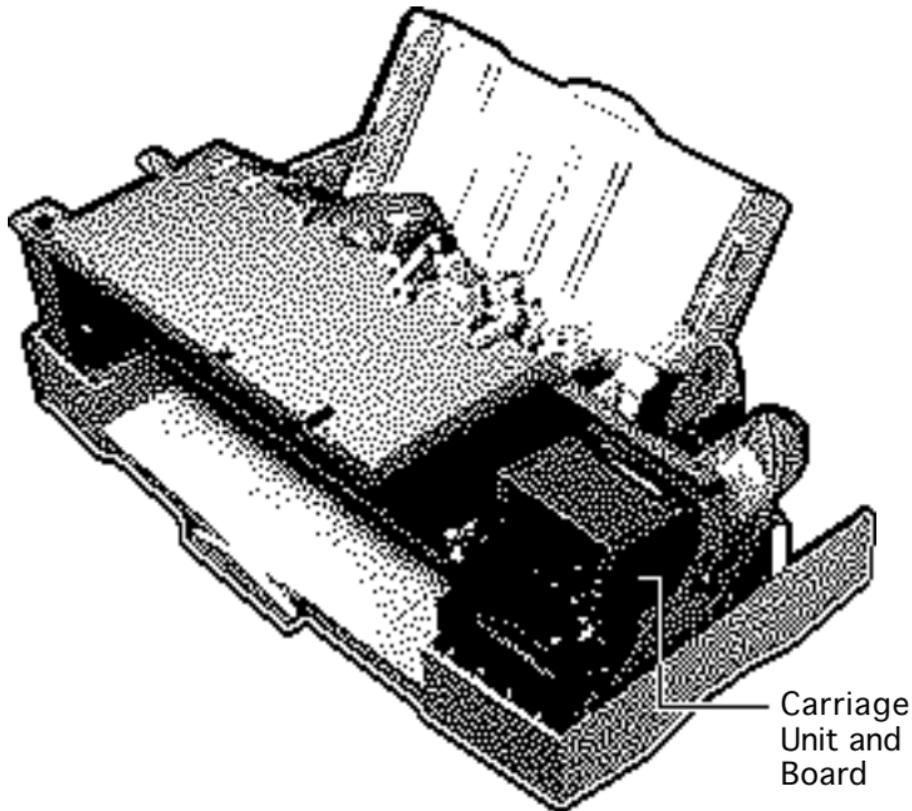
Carriage Unit and Board

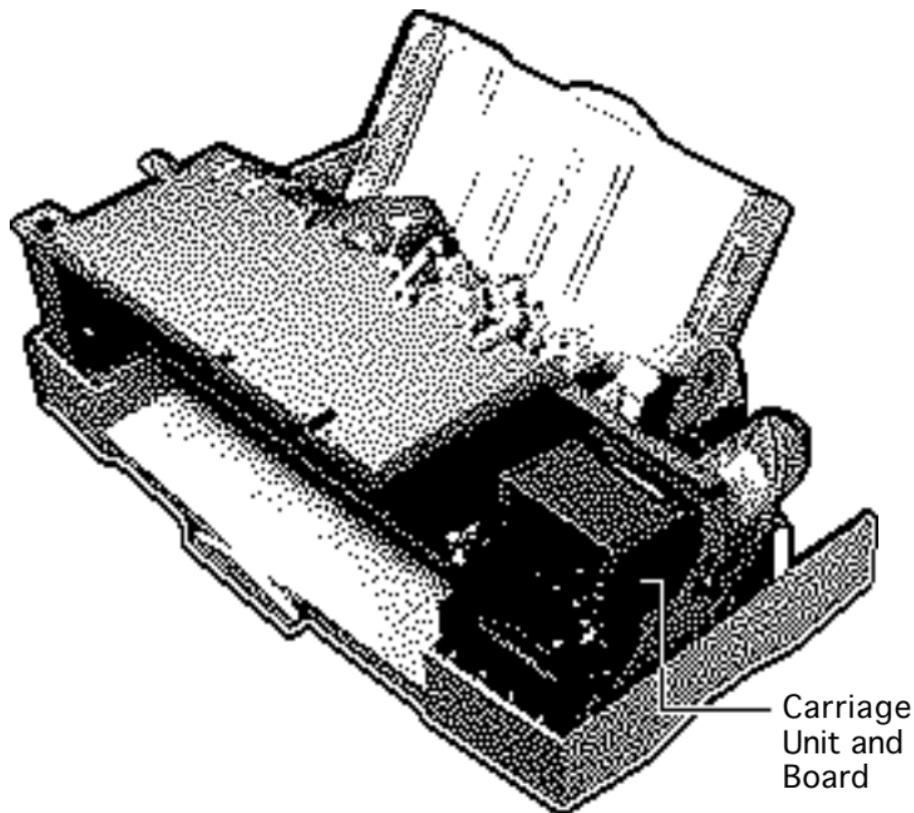
Before you begin, remove the following:

- Covers
- Controller board

Caution: Review the ESD precautions in Bulletins/ Safety.

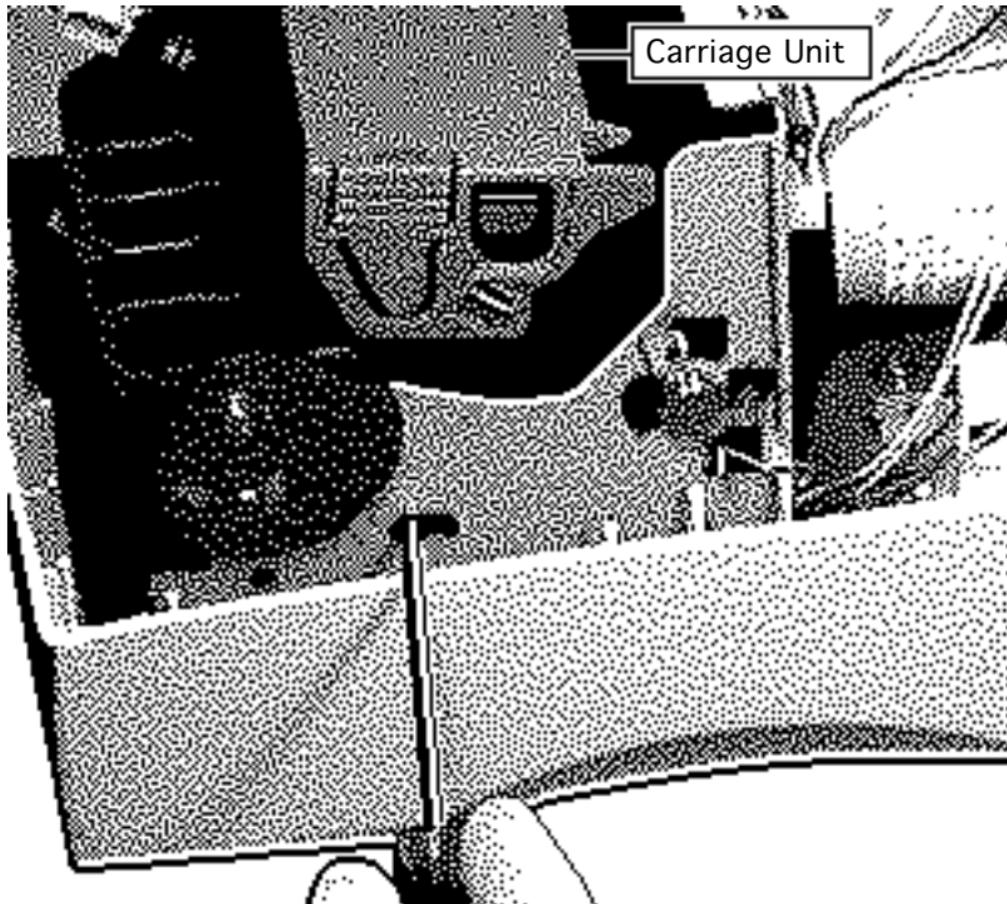
Caution: Do not use a magnetized screwdriver near the encoder. A magnetized screwdriver will damage the encoder.





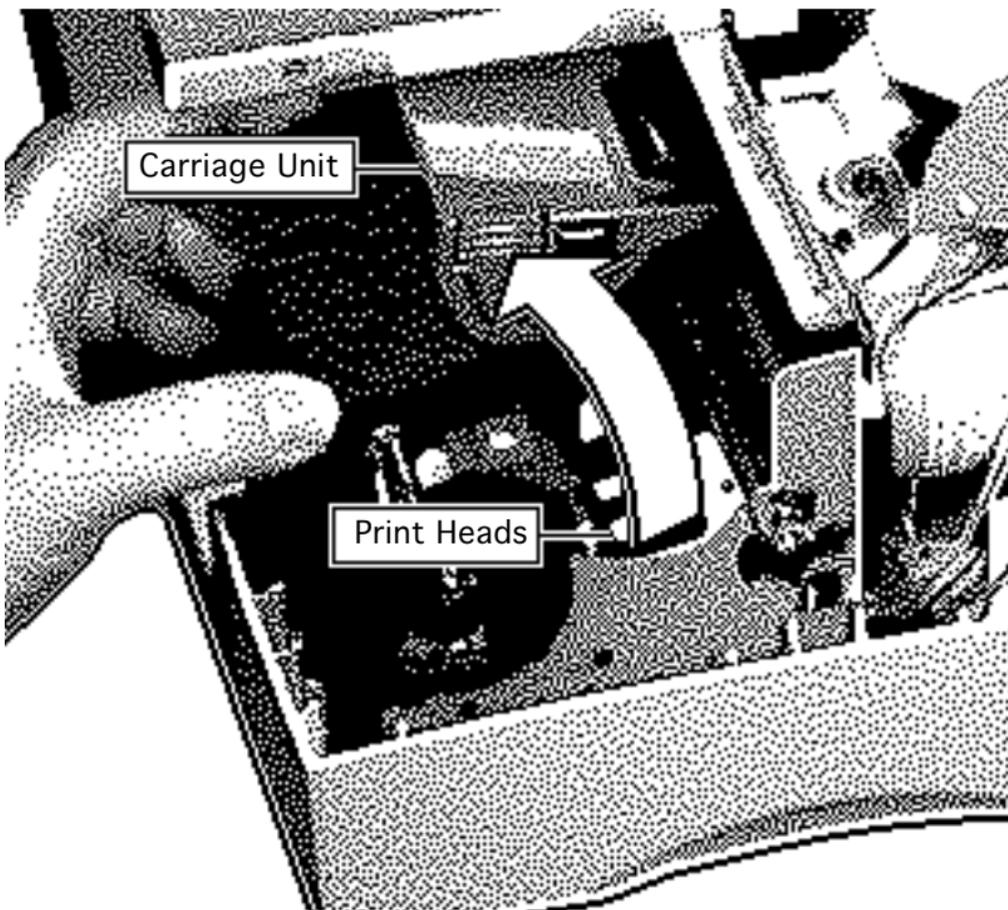
Note: After replacing the carriage board, it is necessary to run the Color StyleWriter Pro Utility. See “Color StyleWriter Pro Utility” in the Adjustments chapter.





- 1 Advance the locking gear and disengage the carriage.





- 2 Move the carriage out of the home position.

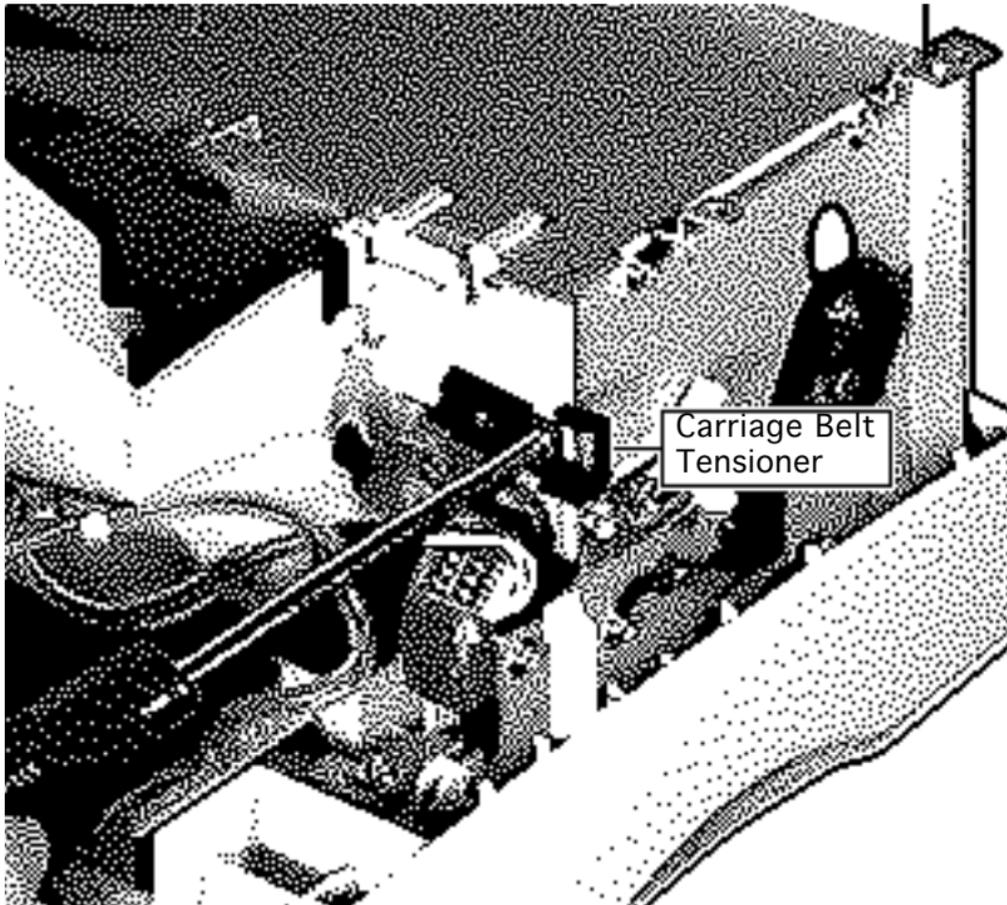
Caution: The print heads are now uncapped. Do not leave them uncapped for more than 12 hours or they will dry out.

Caution: Do not get the printer's ink on your hands or clothes. Although the ink is water soluble, it contains dyes that will stain.



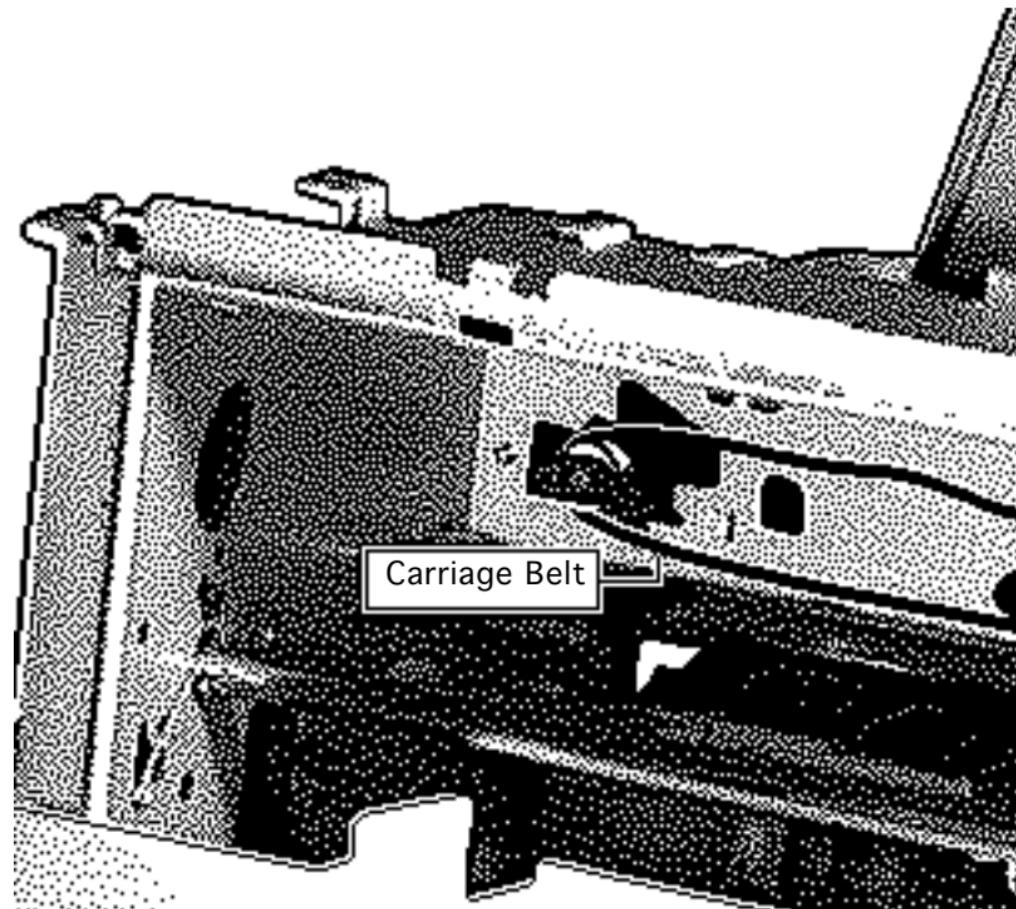


- 3 Using a Phillips screwdriver, loosen the screw and push in the carriage belt tensioner.



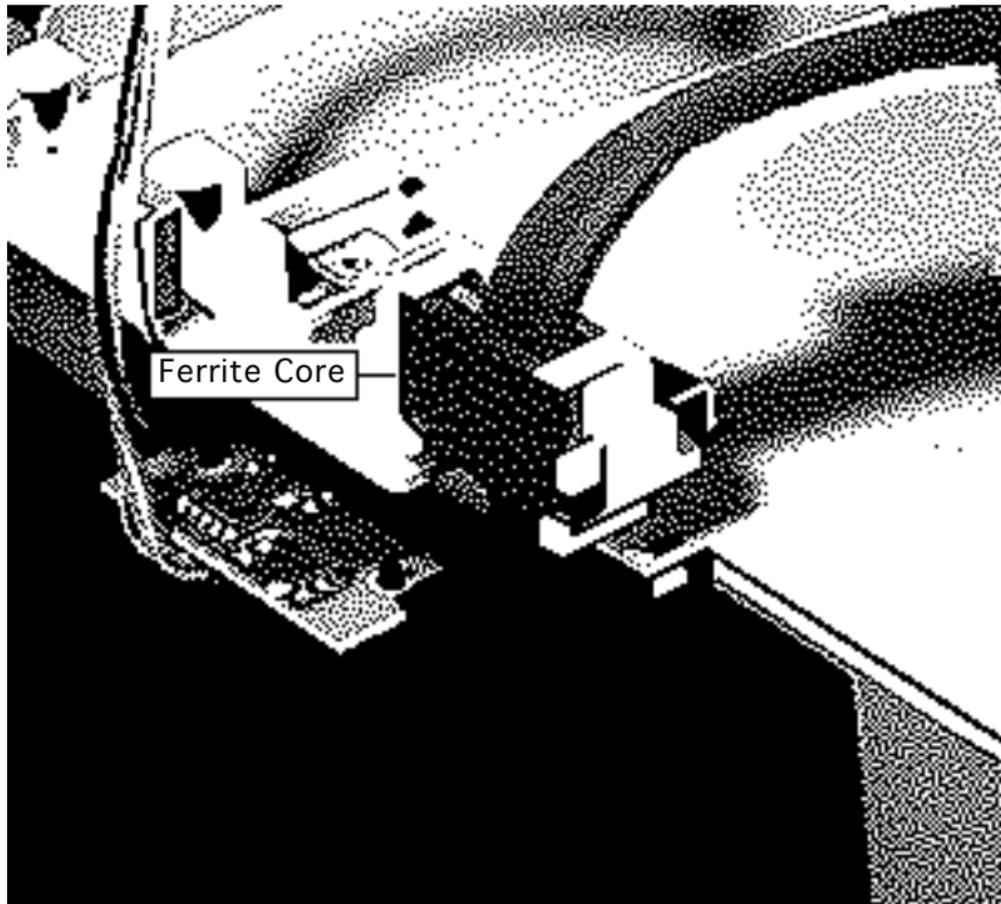


- 4 Remove the carriage belt.



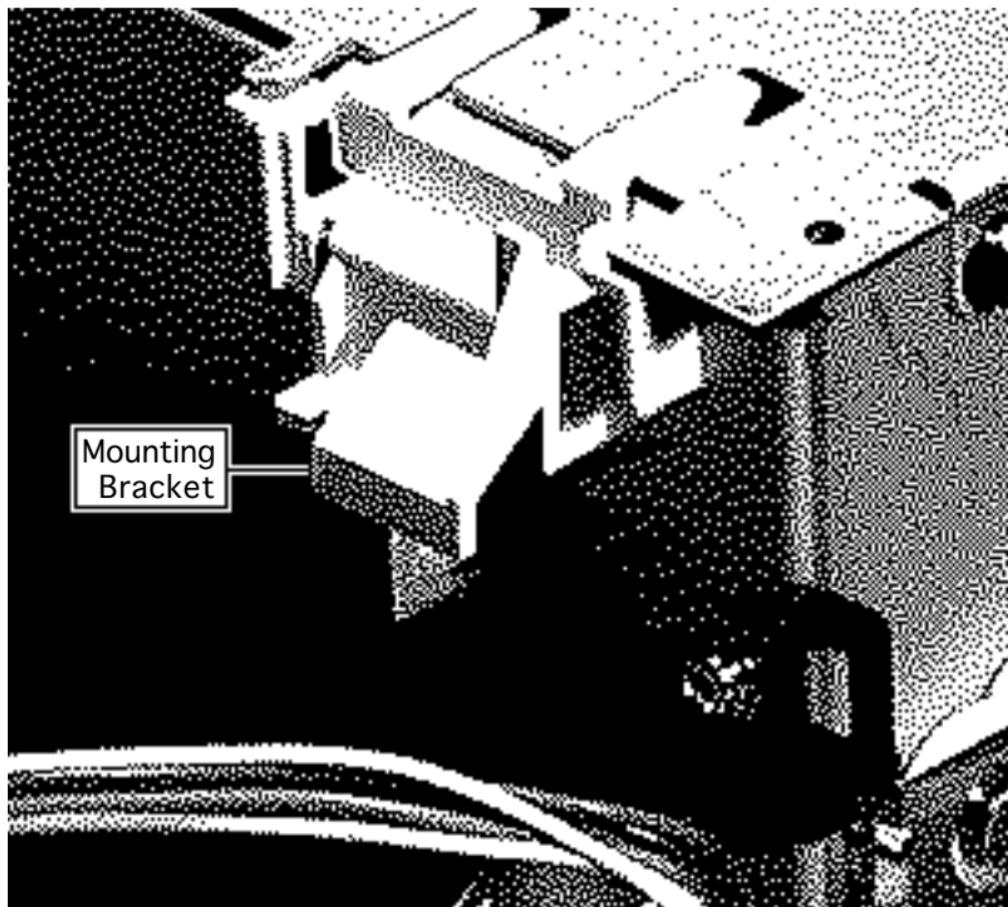


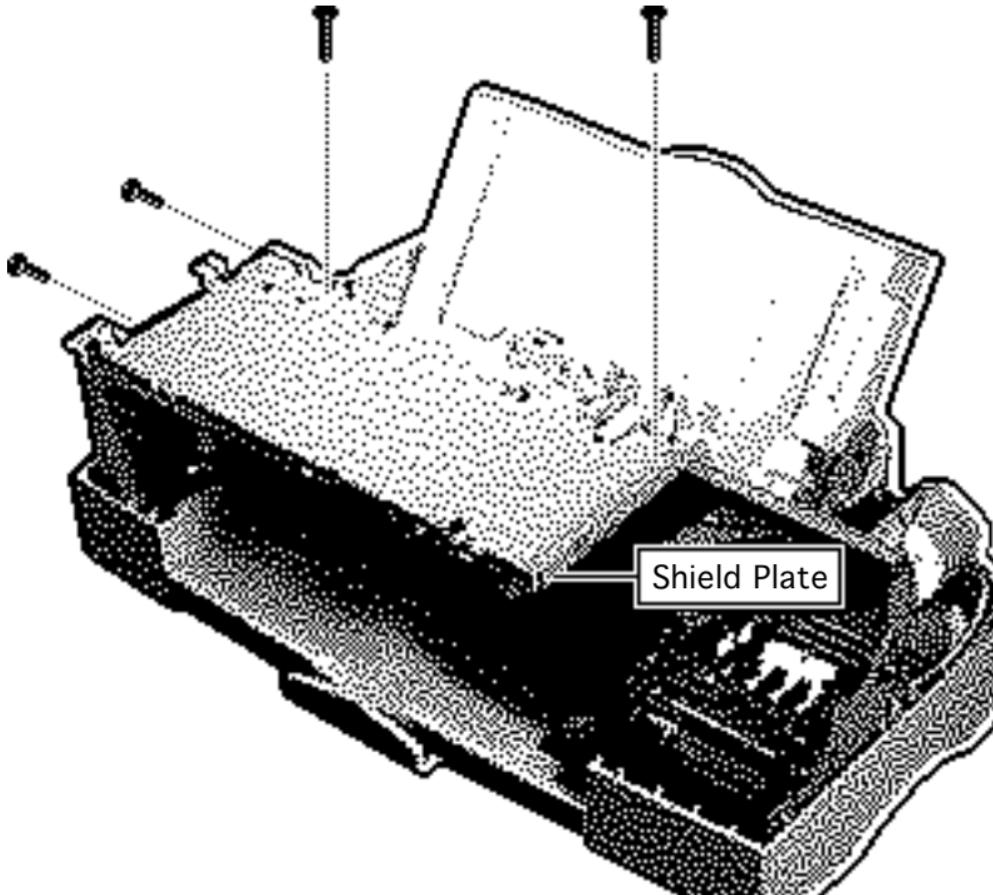
- 5 Remove the ferrite core.





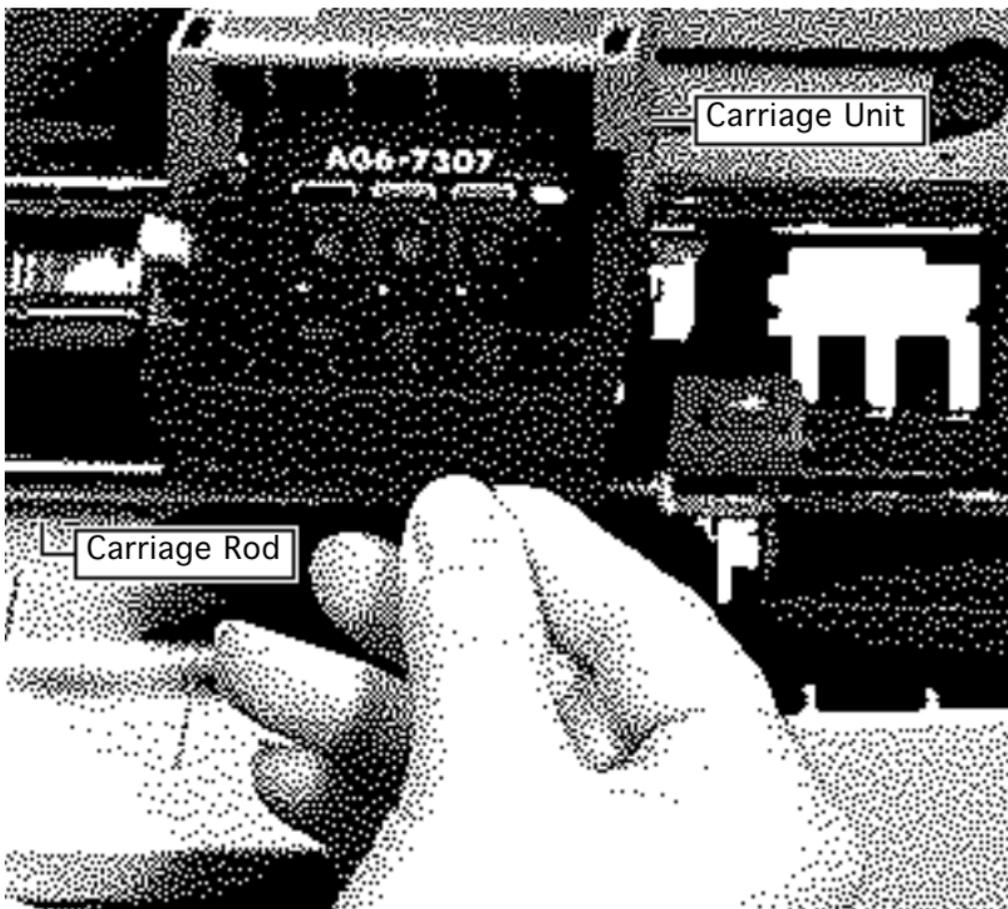
- 6 Remove the plastic mounting bracket.





- 7 Using a Phillips screwdriver, remove the shield plate mounting screws.
- 8 Remove the shield plate.



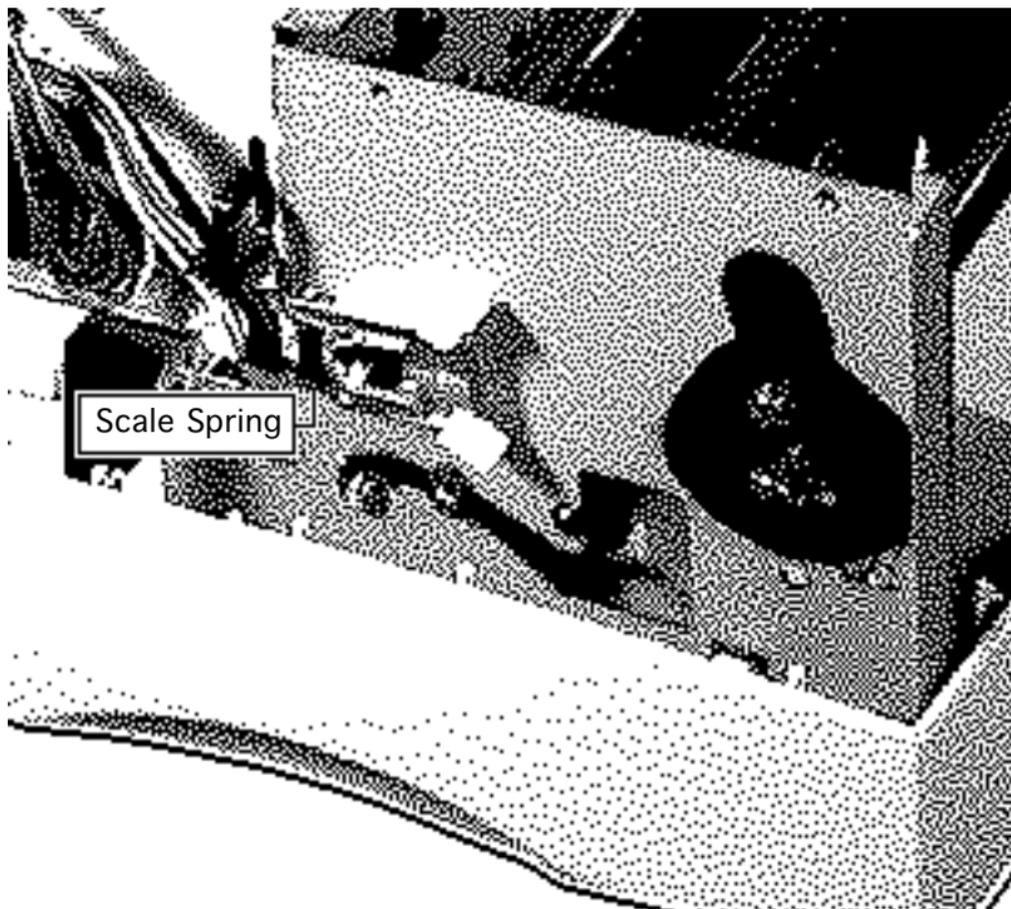


- 9 Pull up the front of the carriage unit and release it from the front carriage rod.



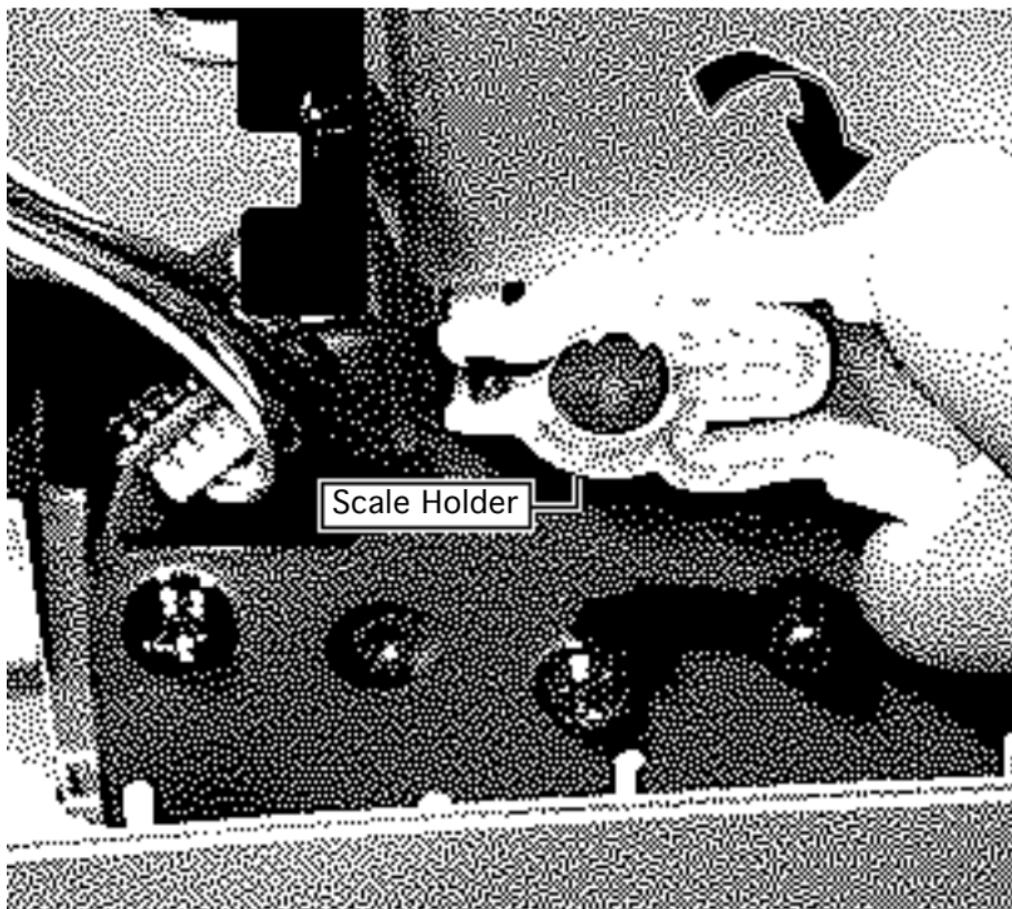


10 Remove the scale spring.



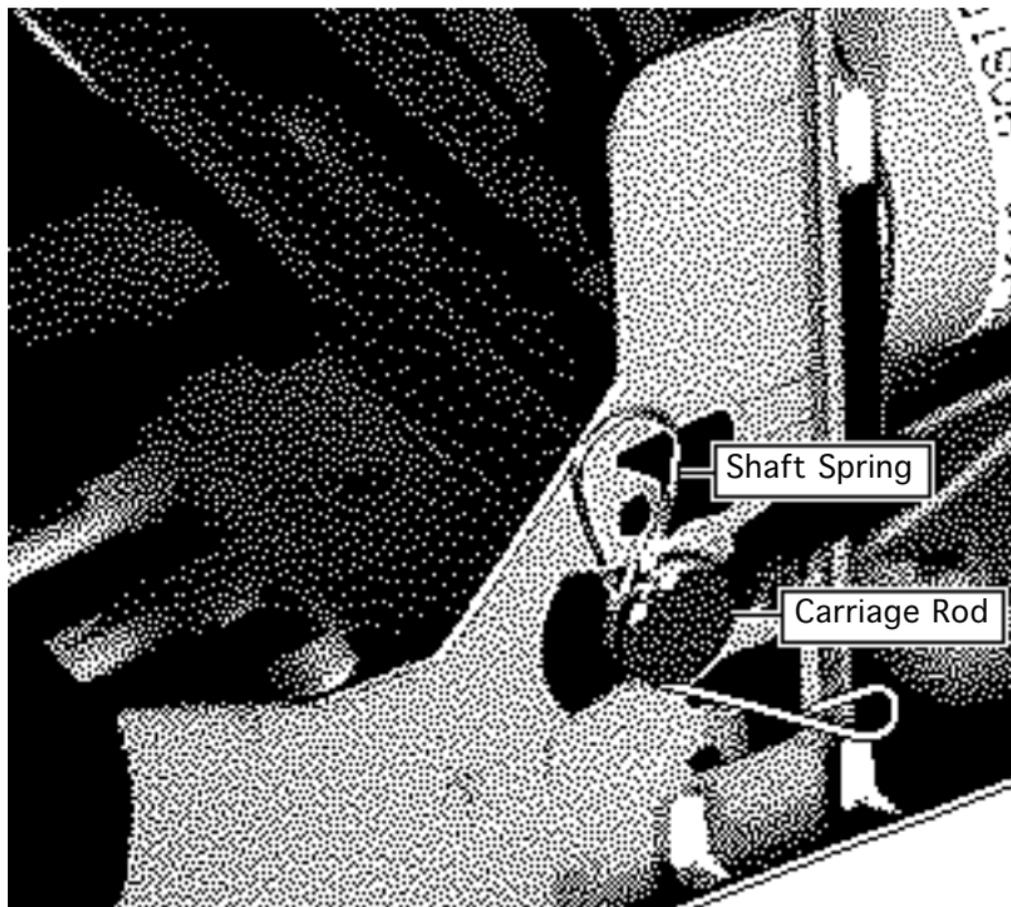


- 11 Press in the latches and remove the scale holder from the printer.



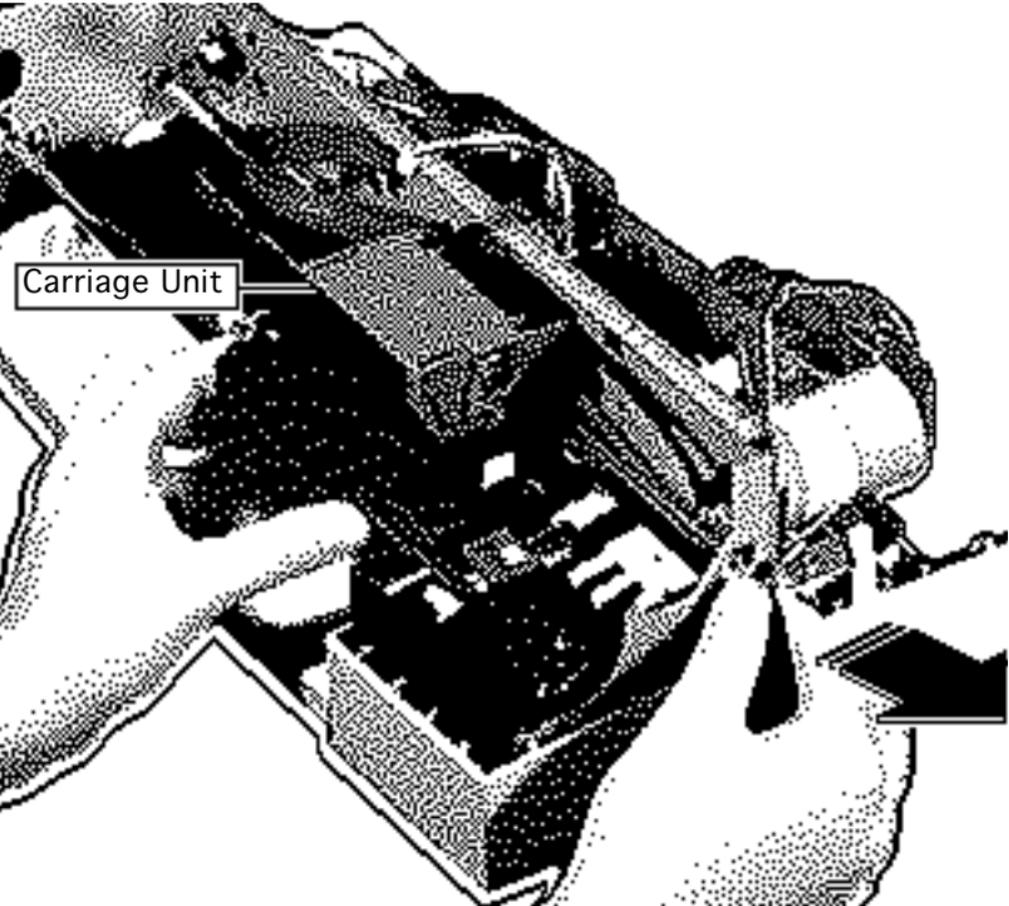


- 12 Remove the shaft spring from the carriage rod.



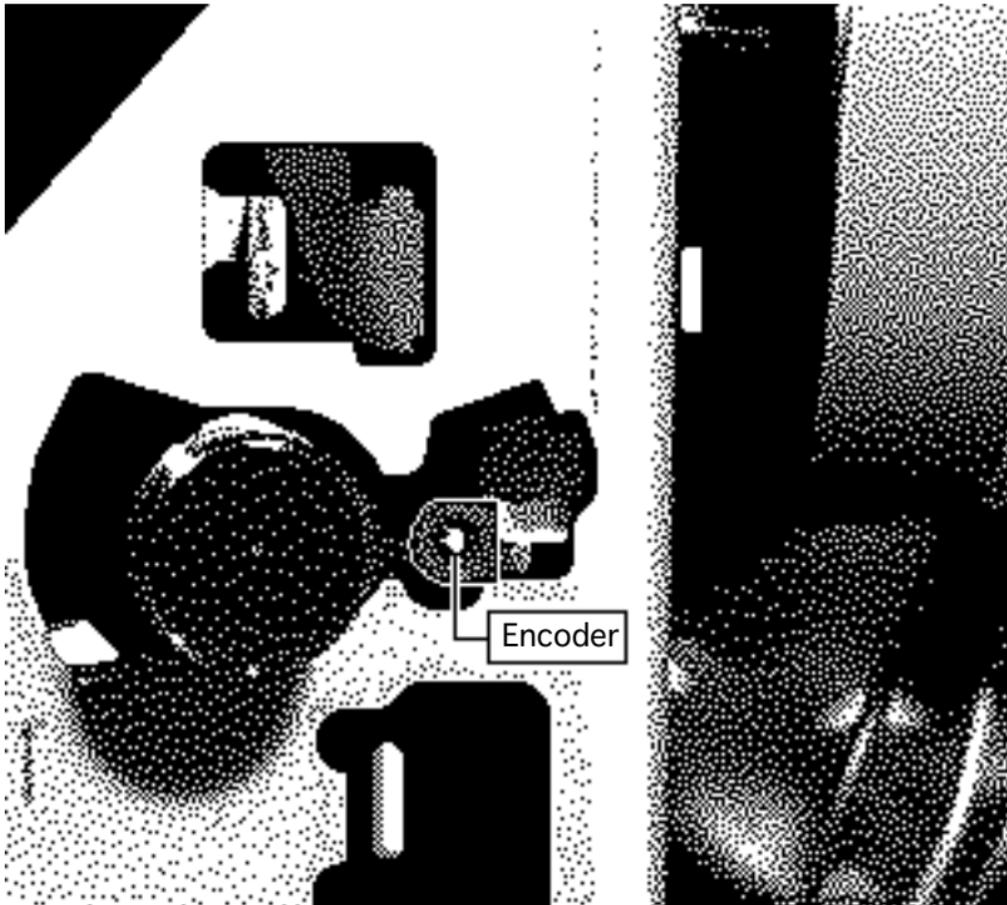


- 13 Pull the carriage to the right and carefully remove the carriage rod from the chassis.

A detailed black and white halftone diagram of a printer's carriage assembly. The diagram shows the carriage unit mounted on a chassis. A label 'Carriage Unit' with a pointer indicates the main assembly. A hand is shown on the right side, pulling the carriage unit to the right. A carriage rod is visible, passing through the carriage unit and the chassis. The diagram illustrates the step of pulling the carriage to the right to remove the carriage rod.

Carriage Unit



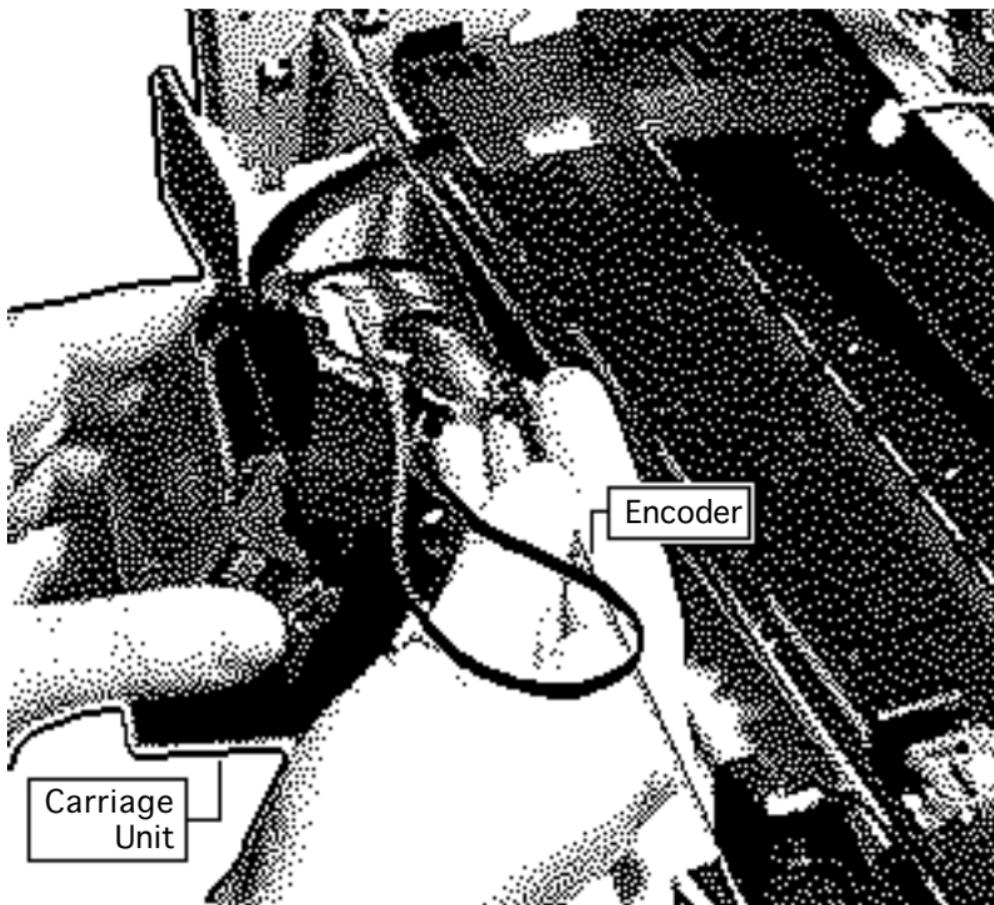


14 **Caution:** Be careful not to bend the encoder when removing it from the chassis.

Carefully remove the encoder and carriage unit from the printer.

Replacement Note: Make sure the encoder is installed in the proper orientation in the scale holder. Failure to do so will cause an encoder error to develop.

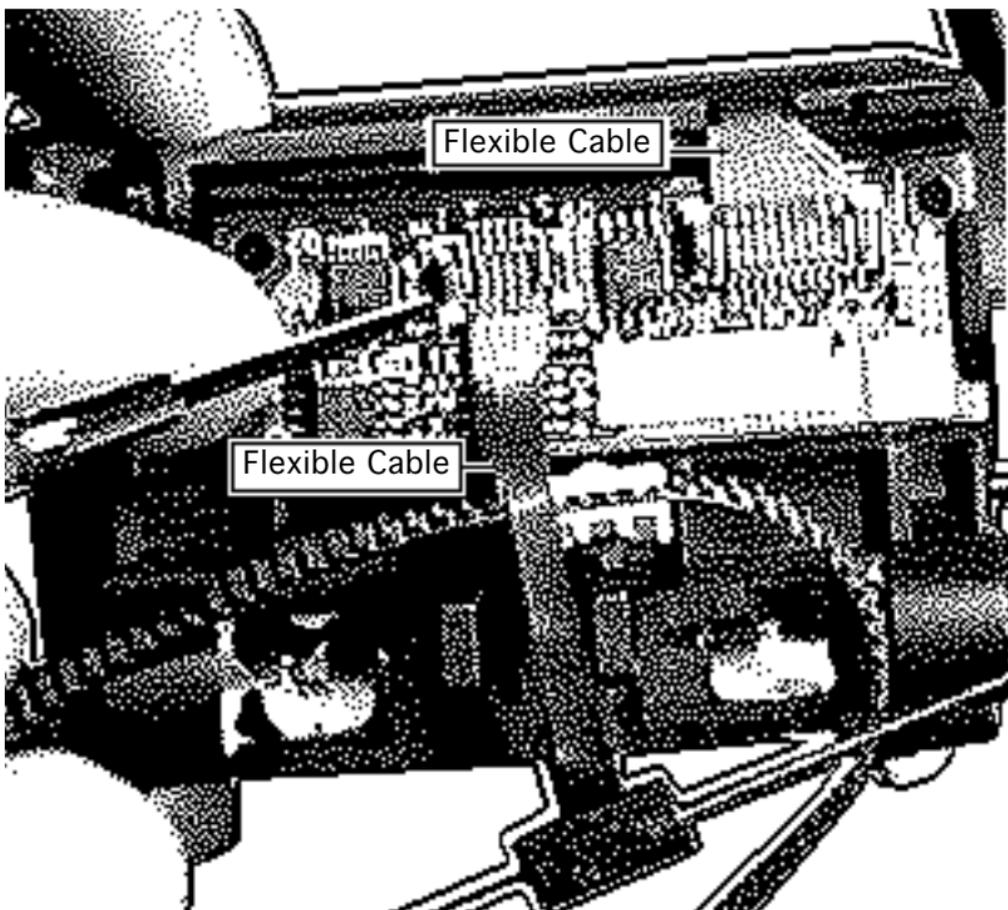




15 **Caution:** Be careful not to bend the encoder.

Carefully place the carriage unit in front of the printer.



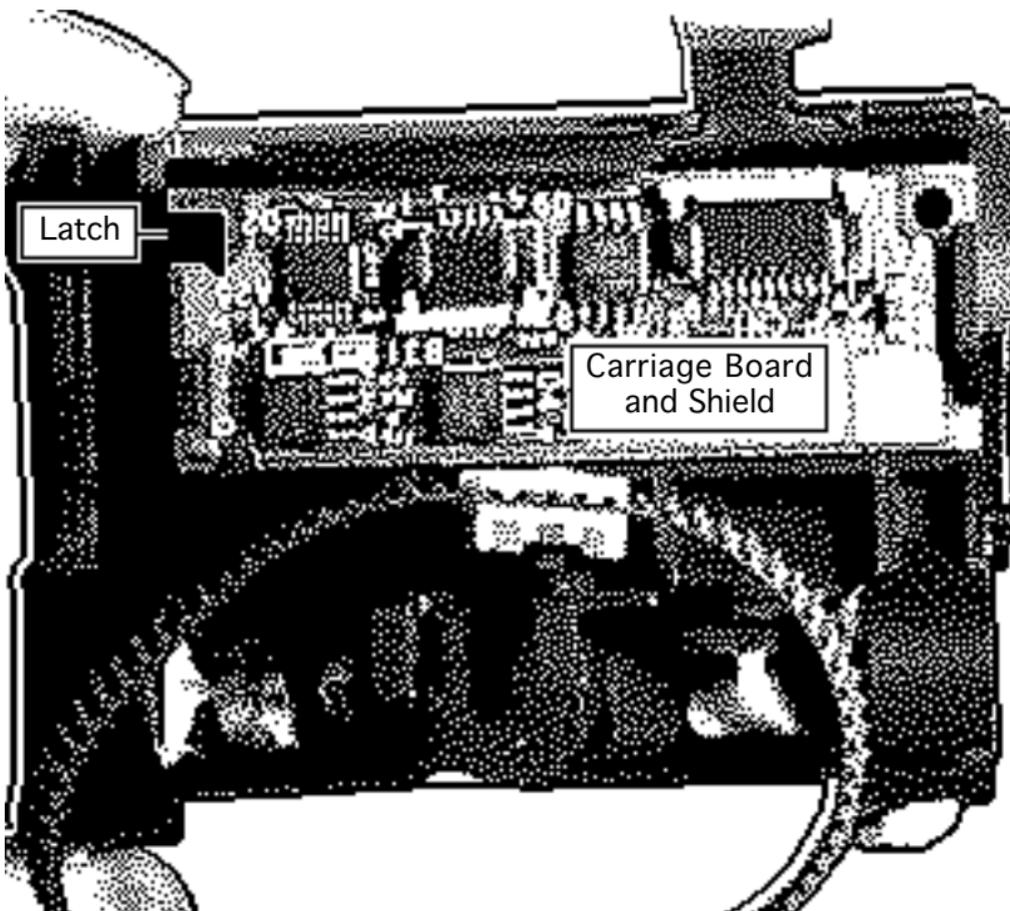


16 Remove the flexible cables from the connectors on the carriage board.



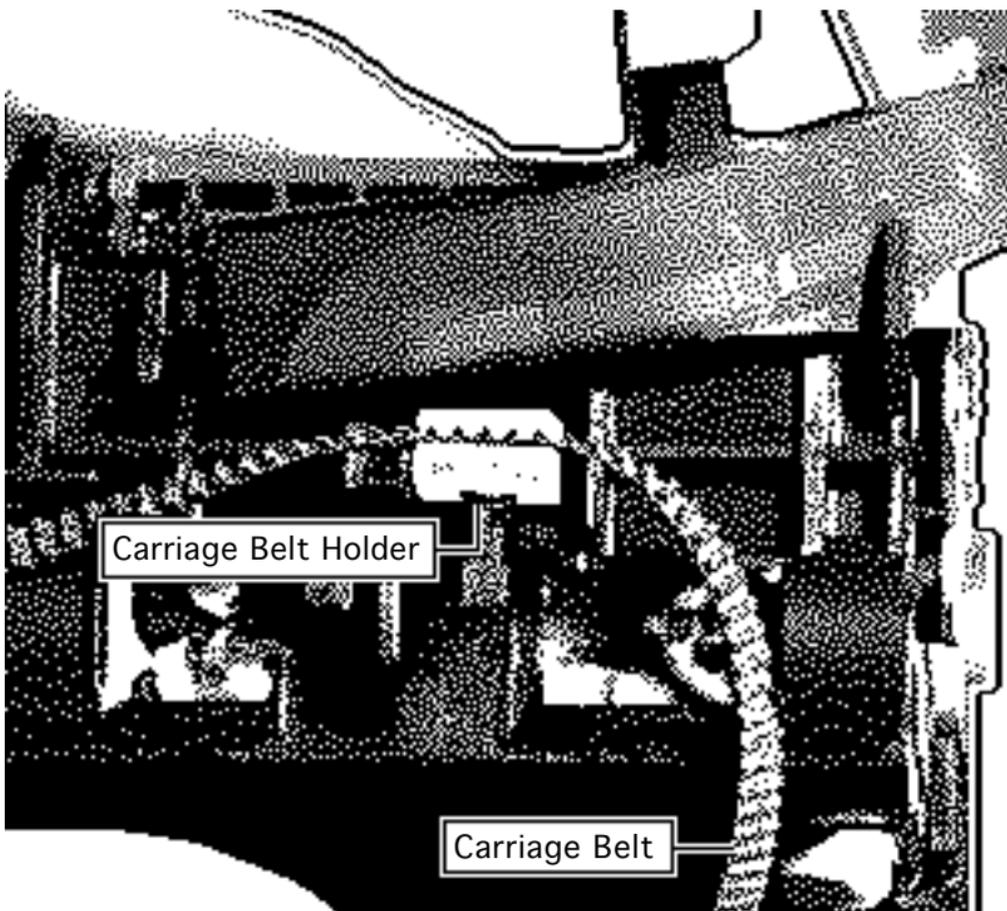


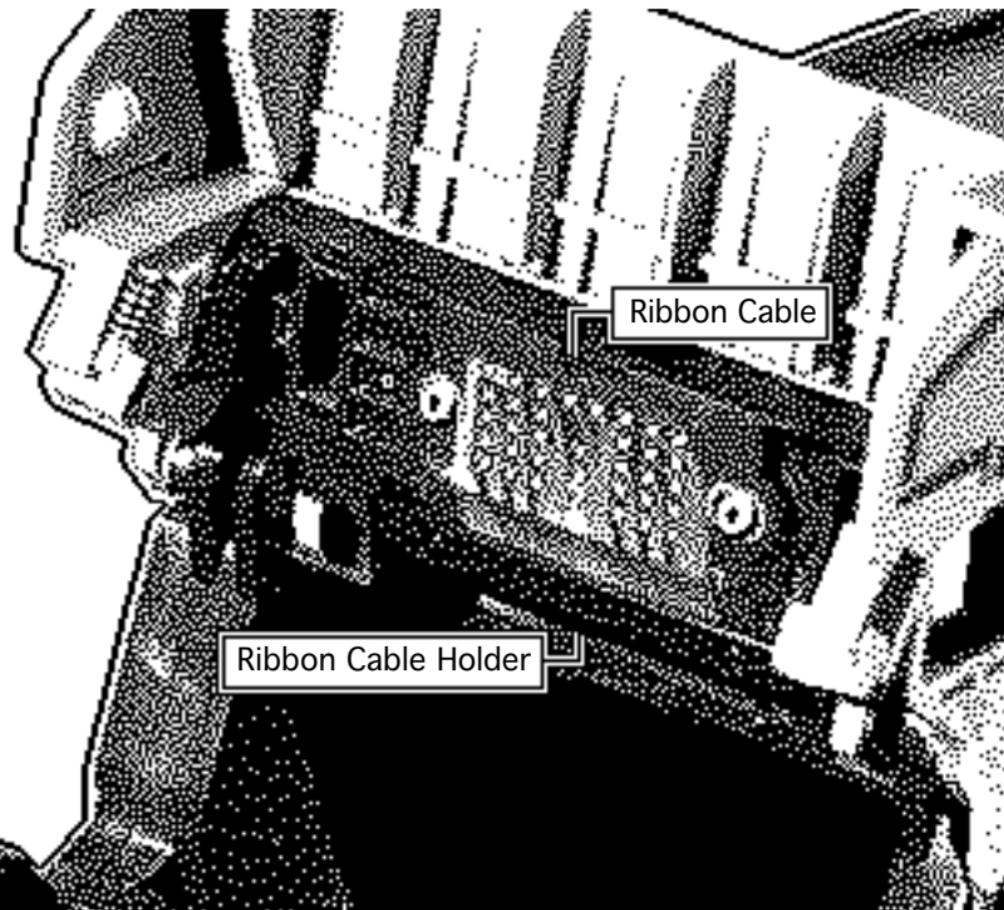
- 17 Release the latch and remove the carriage board and shield.





18 Remove the carriage belt holder and belt.





- 19 Open the carriage unit.
- 20 Remove the ribbon cable holder and ribbon cable.

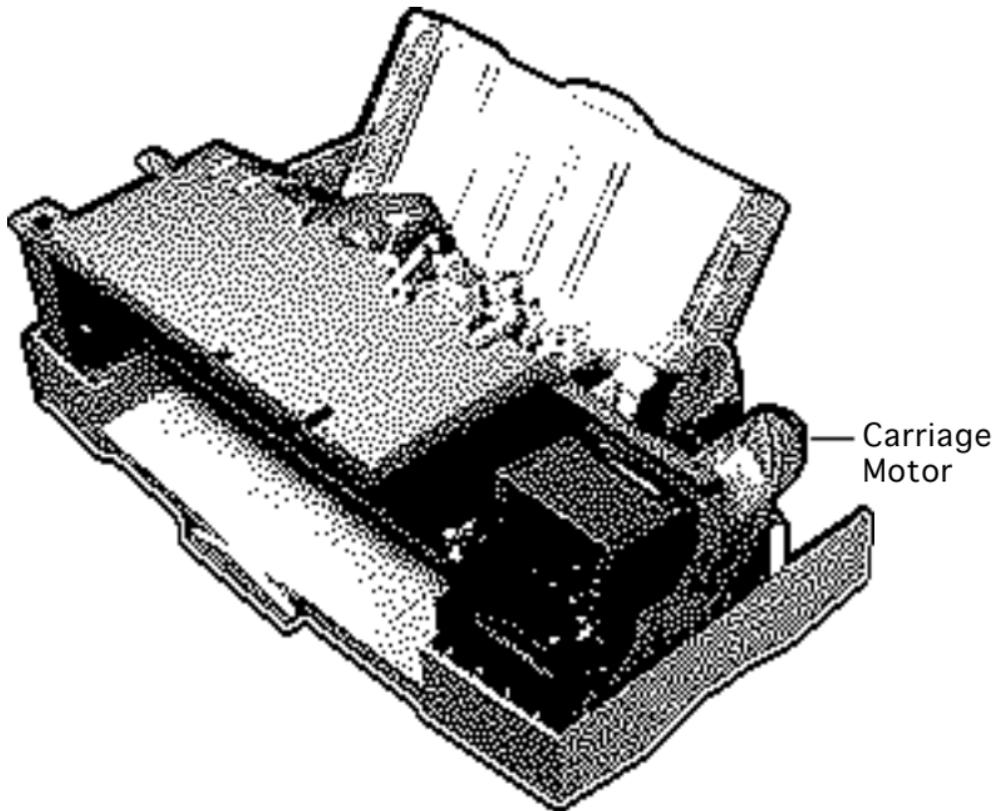




Carriage Motor

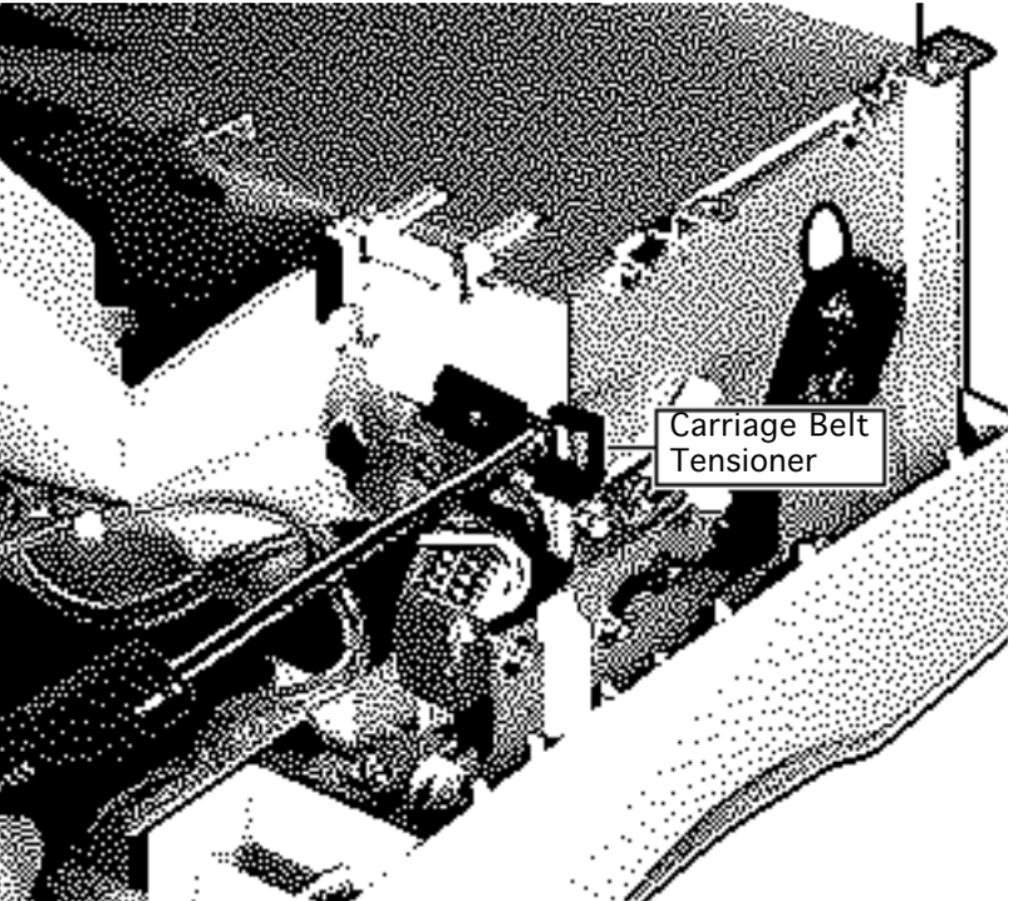
Before you begin, remove the covers.

Caution: Review the ESD precautions in Bulletins/ Safety.





- 1 Using a Phillips screwdriver, loosen the screw and push in the carriage belt tensioner.

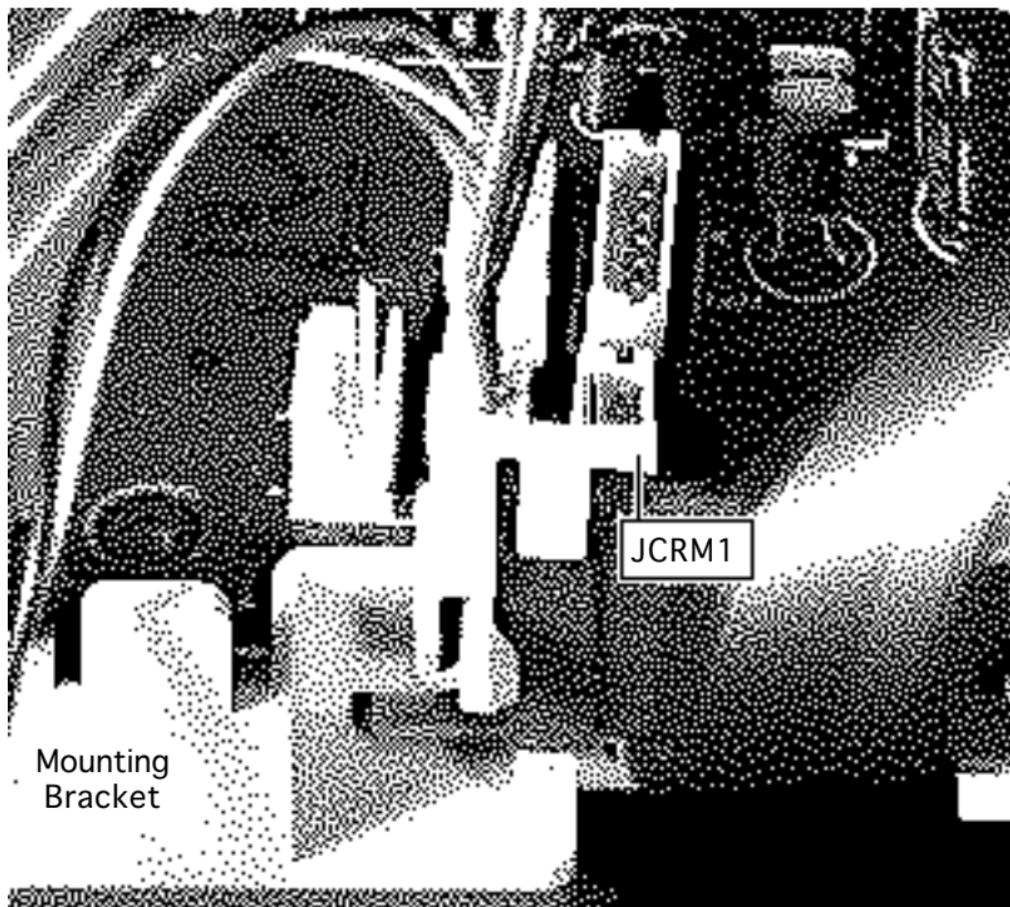
A detailed black and white halftone diagram of a carriage motor assembly. The diagram shows various mechanical components, including a motor housing, a carriage, and a belt. A Phillips screwdriver is shown inserted into a screw on the carriage. A label 'Carriage Belt Tensioner' points to a specific part of the assembly.

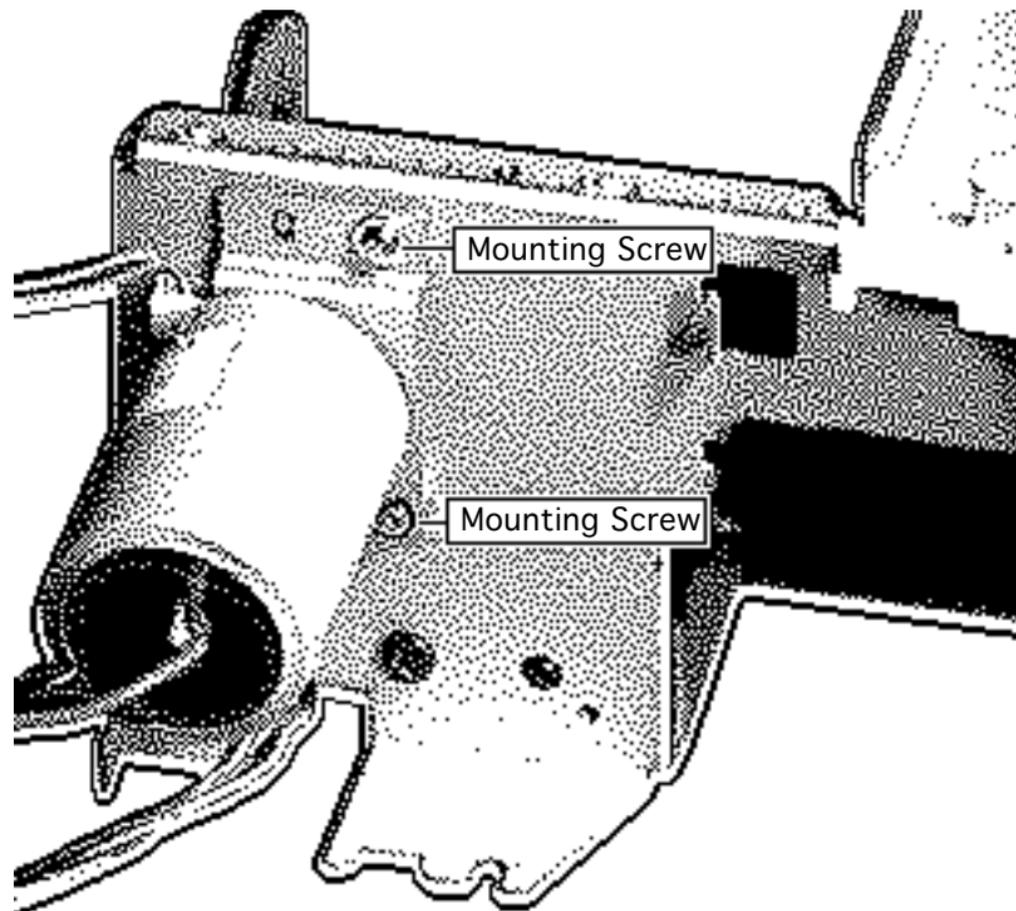
Carriage Belt Tensioner





- 2 Disconnect connector JCRM1 from the controller board.
- 3 Remove the wires from the mounting bracket.





- 4 Using a Phillips screwdriver, remove the two mounting screws.
- 5 Remove the motor.



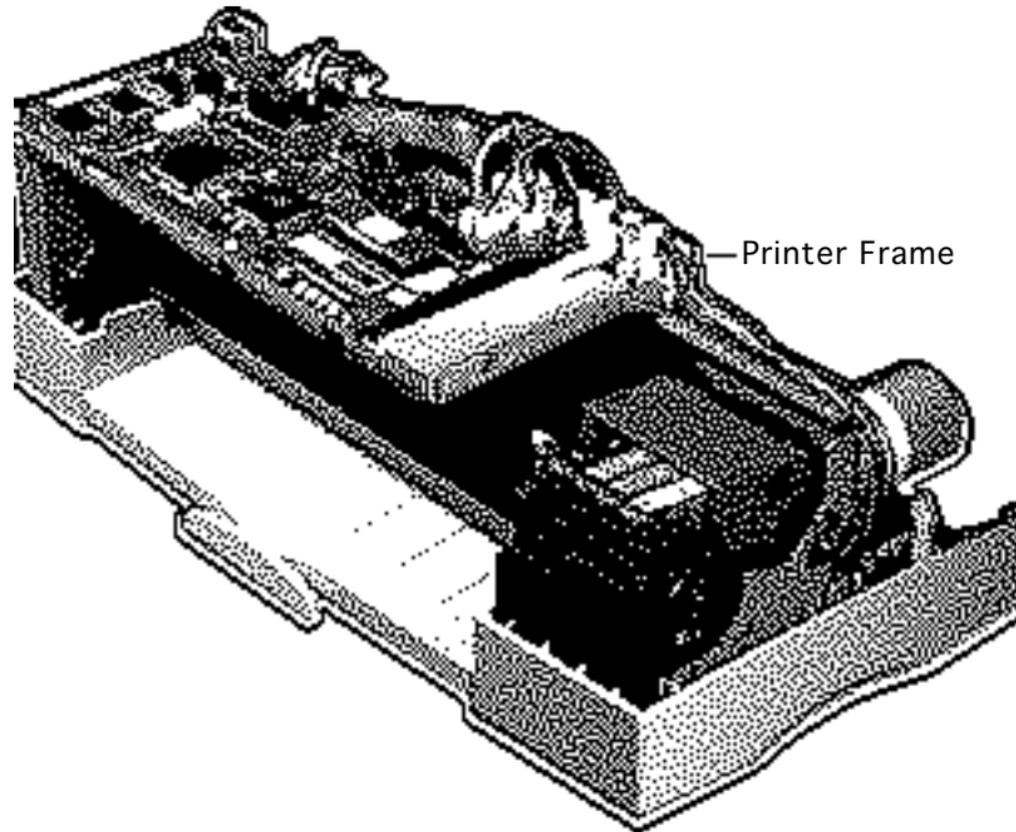


Printer Frame

Before you begin, remove the following:

- Covers
- Cut sheet feeder
- Power supply

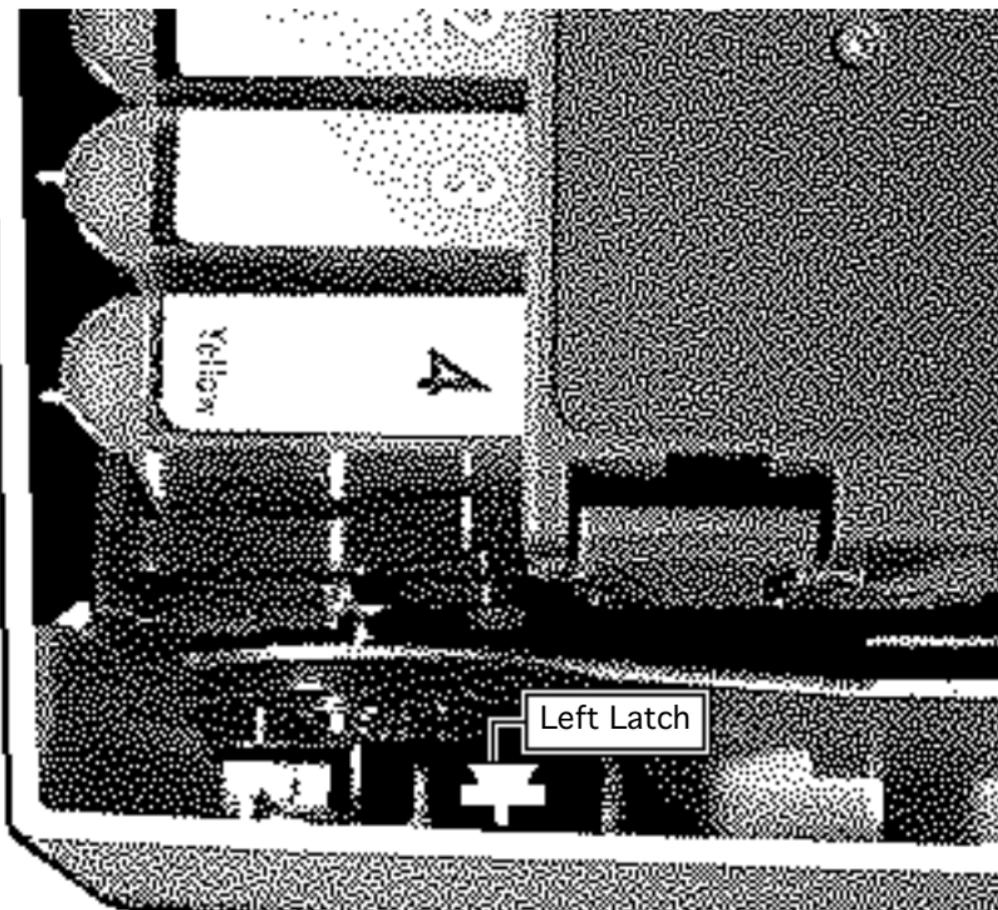
Caution: Review the ESD precautions in Bulletins/ Safety.





- 1 Release the right latch and lift up on the printer.



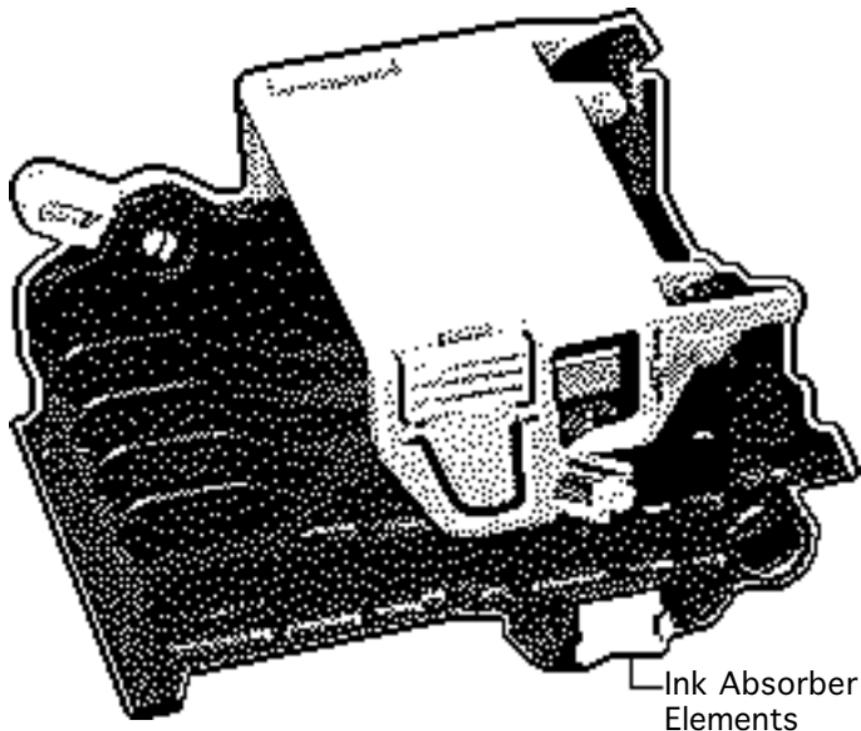


- 2 Release the left latch and remove the printer frame from the printer.





Ink Absorber Elements



Before you begin, remove the following:

- Covers
- Controller board
- Carriage unit

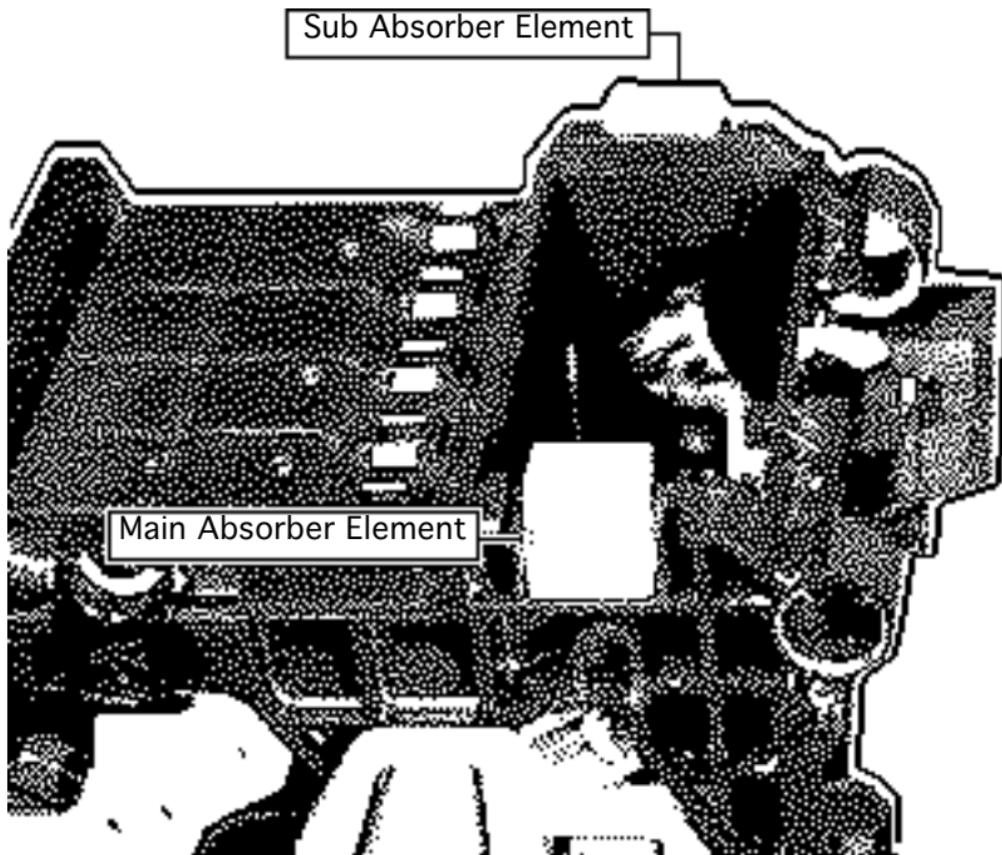
Caution: Review the ESD precautions in Bulletins/ Safety.

Caution: Do not get the printer's ink on your hands or clothes. Although the ink is water soluble, it contains dyes that will stain.



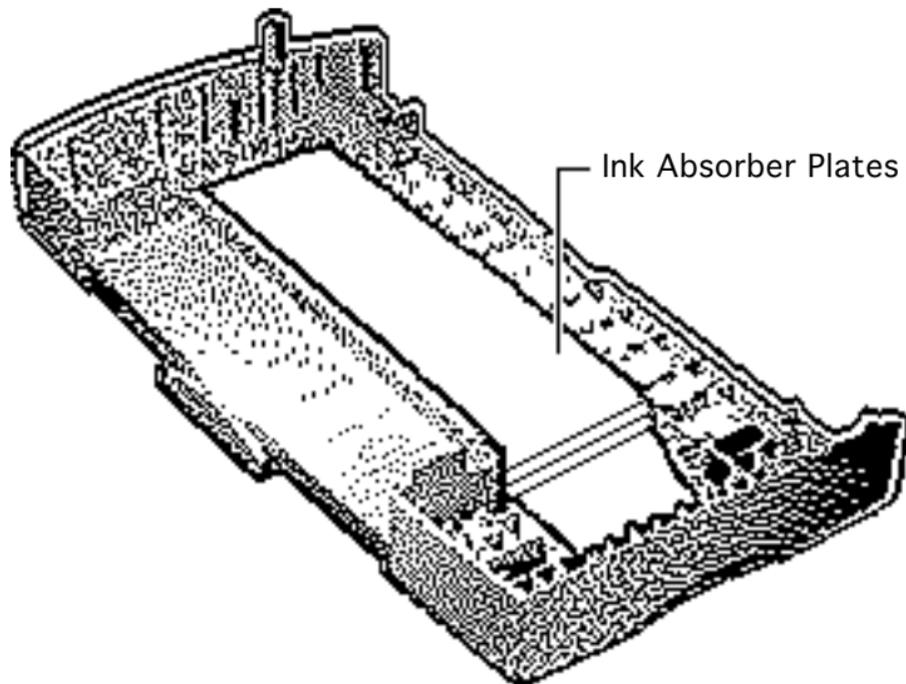


- 1 Turn over the carriage unit.
- 2 Using a small flat-blade screwdriver, gently release the two latches and remove the main absorber element.
- 3 Gently release the remaining two latches and remove the sub absorber element.





Ink Absorber Plates



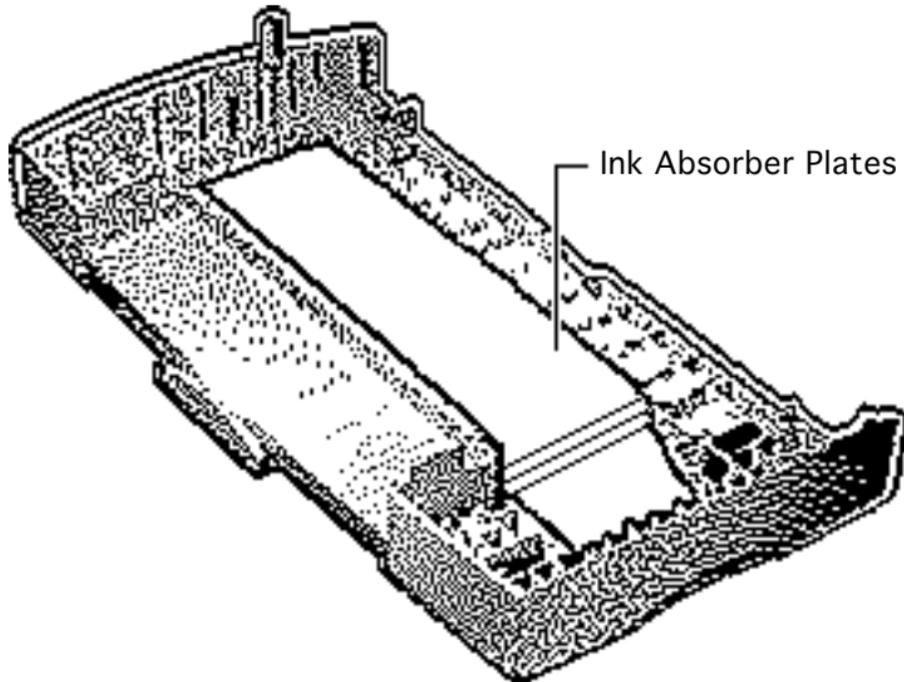
Before you begin, remove the following:

- Covers
- Sheet feeder
- Printer frame

Caution” Review the ESD precautions in Bulletins/ Safety.

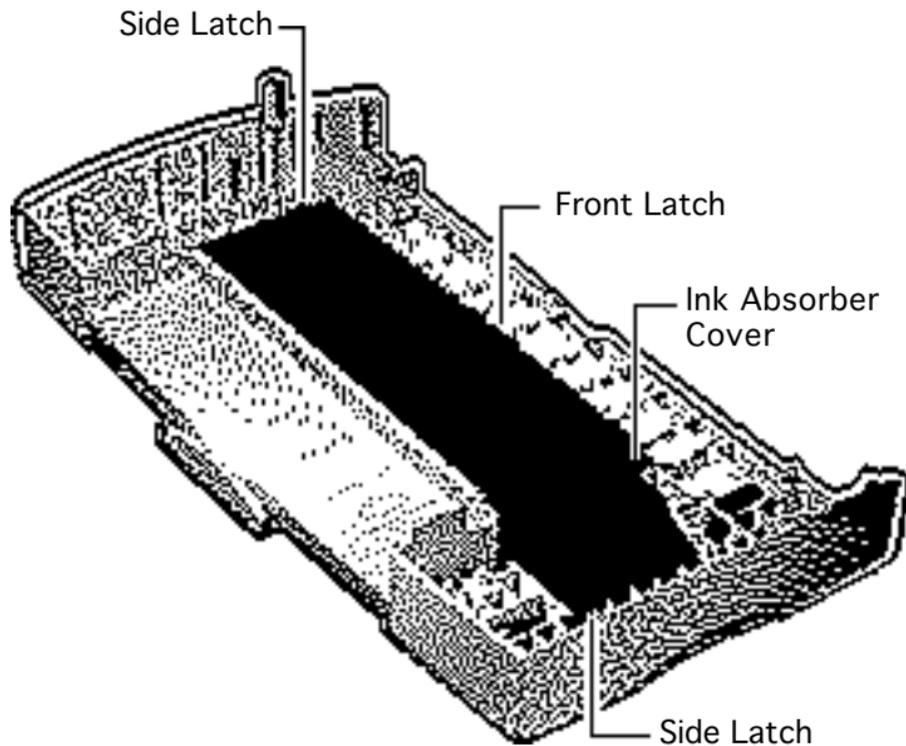
Caution: Do not get the printer’s ink on your hands or clothes. Although the ink is water soluble, it contains dyes that will stain.





Note: After replacing the ink absorber plates, it is necessary to run the Color StyleWriter Pro Utility. See “Color StyleWriter Pro Utility” in the Adjustments chapter.



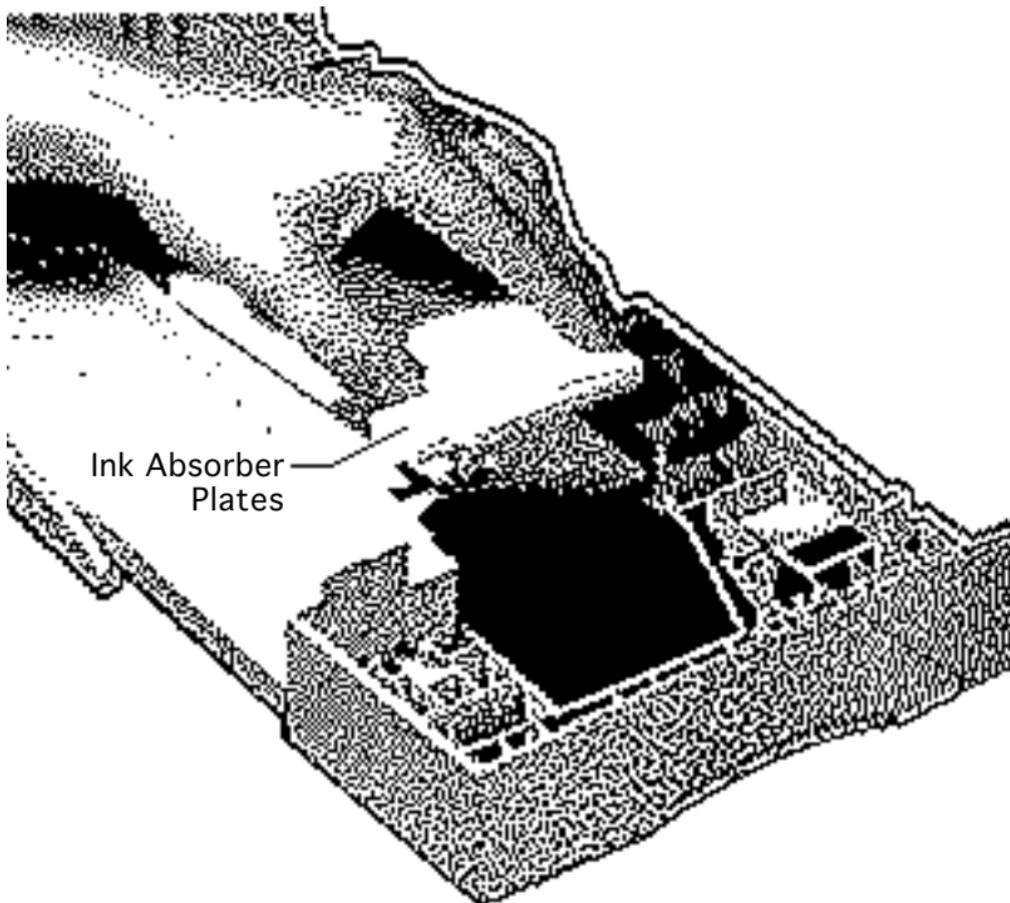


- 1 Release the front latch.
- 2 Release the two side latches and remove the ink absorber cover.





- 3 Remove the three ink absorber plates.



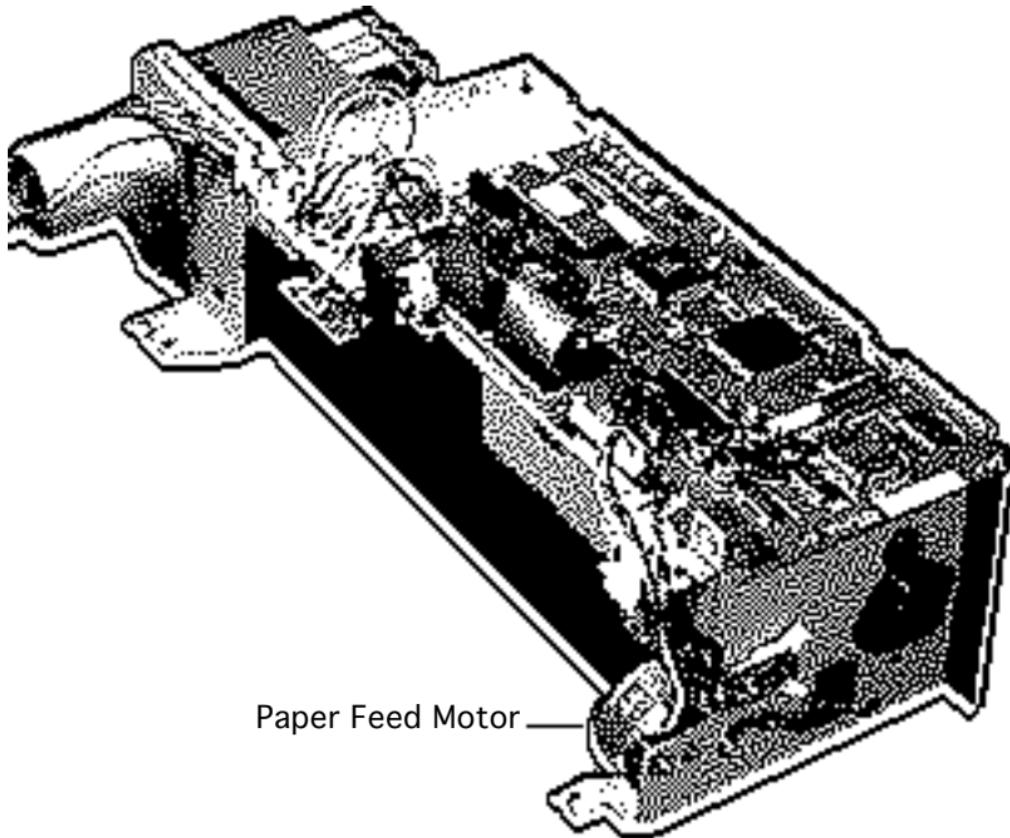


Paper Feed Motor

Before you begin, remove the following:

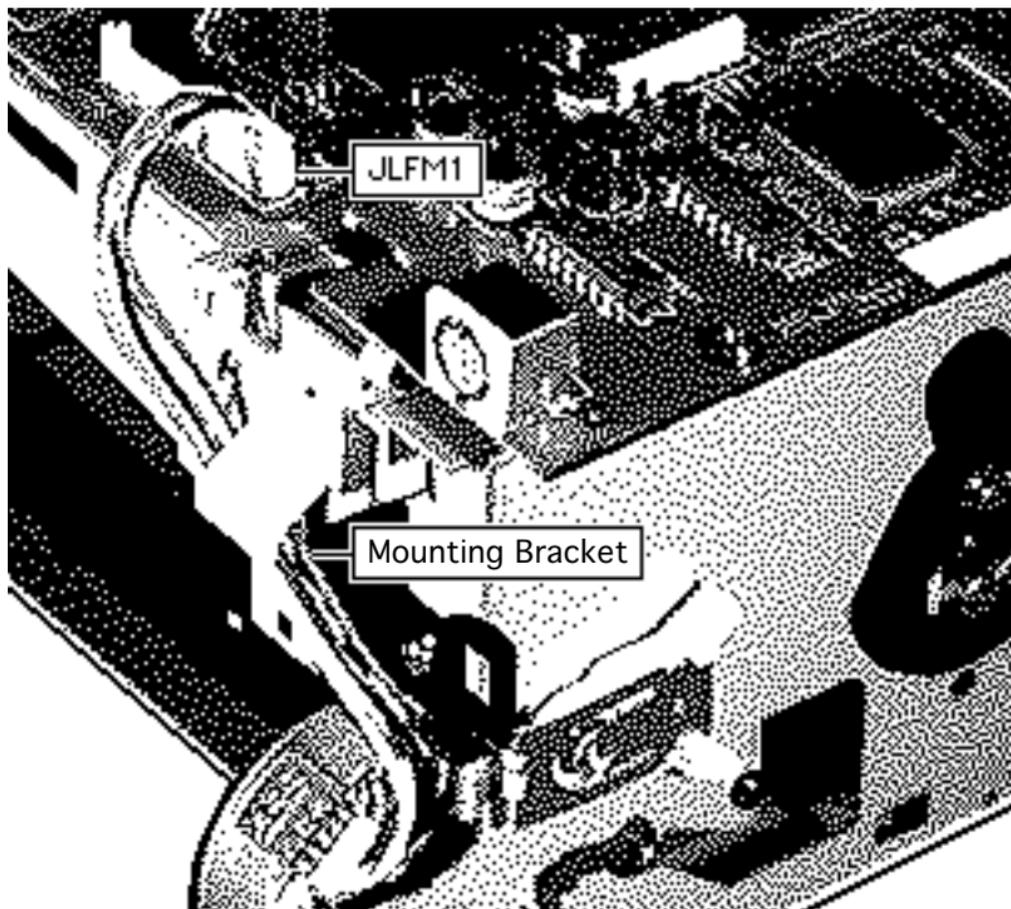
- Covers
- Cut sheet feeder
- Power supply
- Printer frame

Caution: Review the ESD precautions in Bulletins/ Safety.



Paper Feed Motor





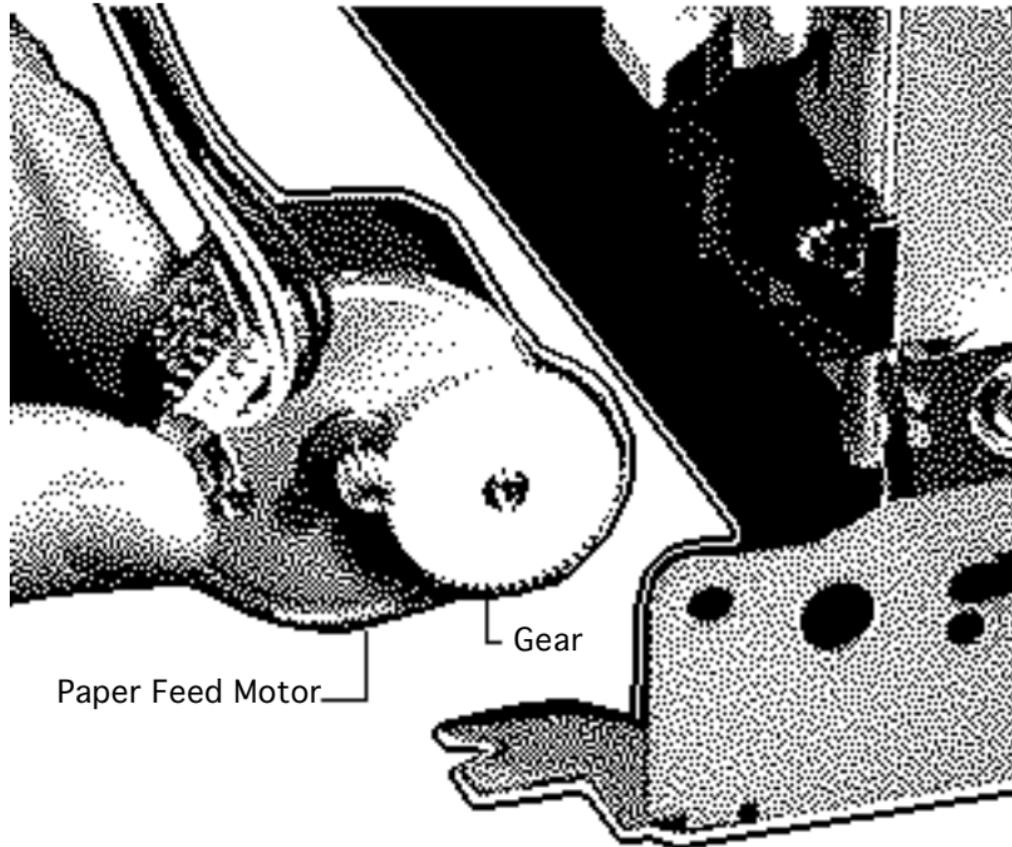
- 1 Disconnect connector JLFM1 from the controller board.
- 2 Release the wires from the mounting bracket.





- 3 **Note:** Remove the paper feed motor carefully to avoid losing the gear.

Using a Phillips screwdriver, remove the two mounting screws and remove the paper feed motor.



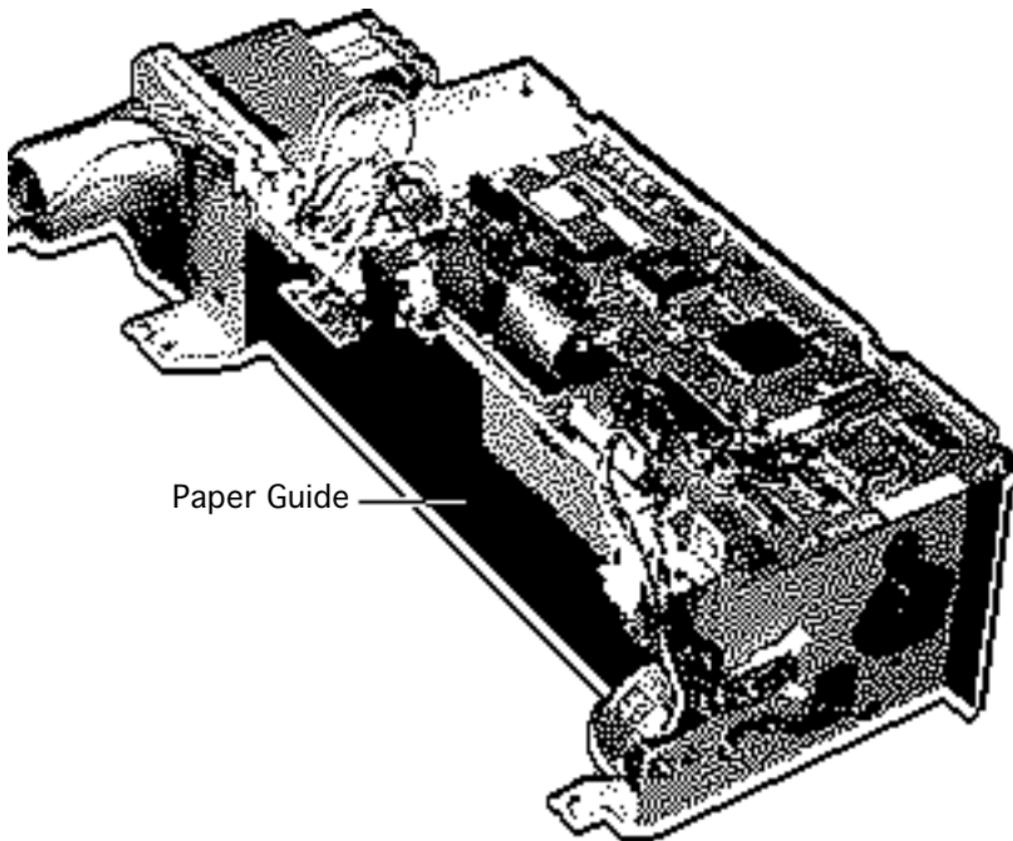


Paper Guide

Before you begin, remove the following:

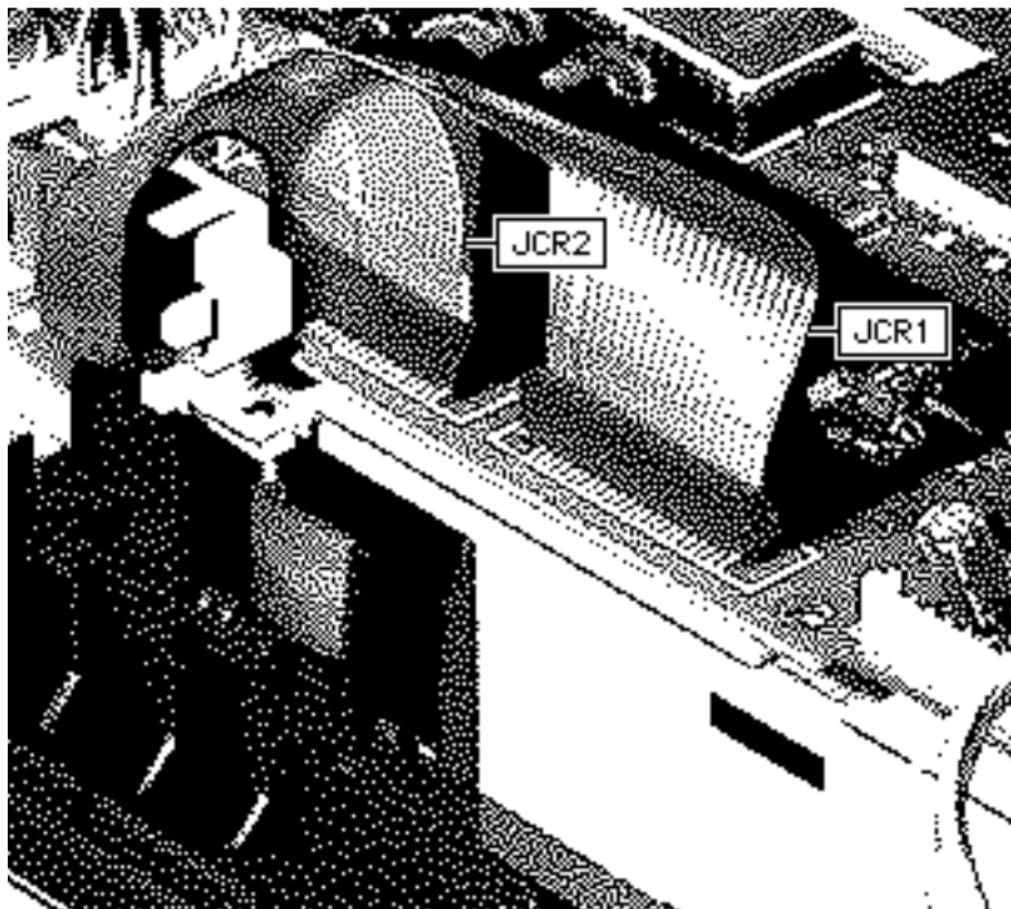
- Covers
- Cut sheet feeder
- Power supply
- Printer frame

Caution: Review the ESD precautions in Bulletins/Safety.



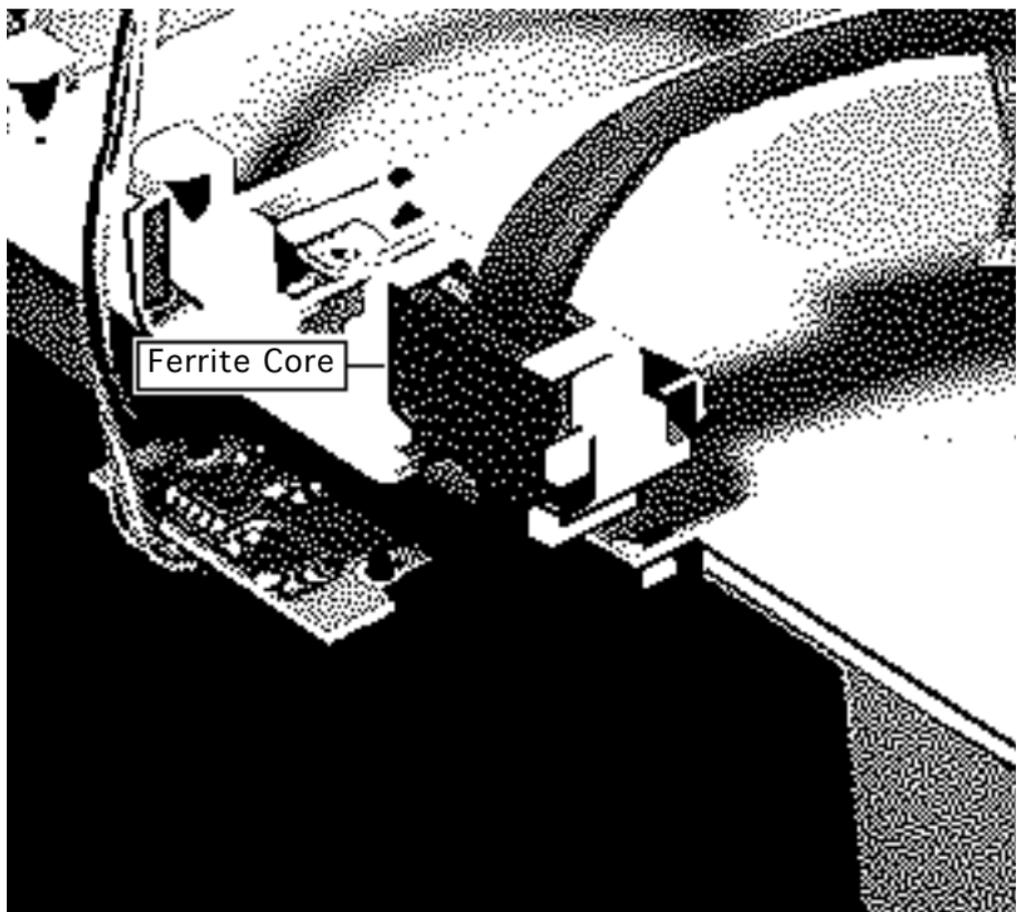


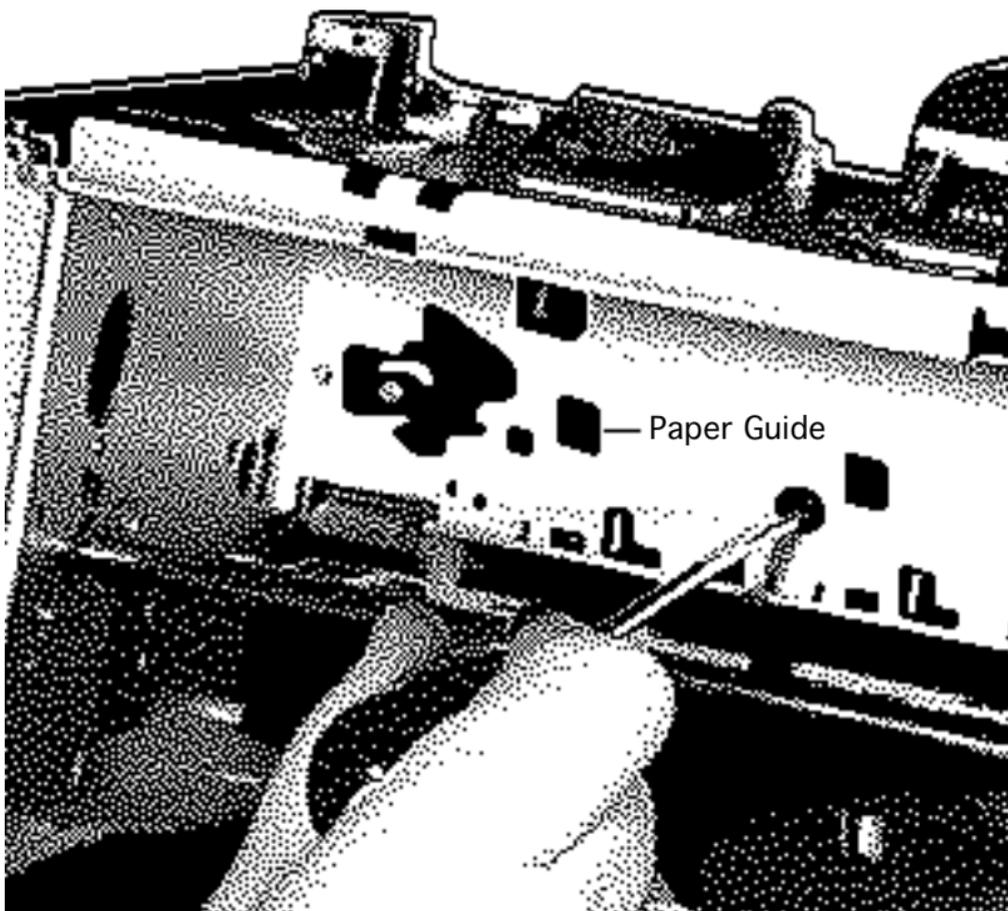
- 1 Disconnect ribbon cables JCR1 and JCR2 from the controller board.





- 2 Release the latches on the ferrite core and remove the core and the ribbon cables.





- 3 Push in the catch on the left side and push down on the paper guide.
- 4 Repeat for the right side and remove the paper guide.



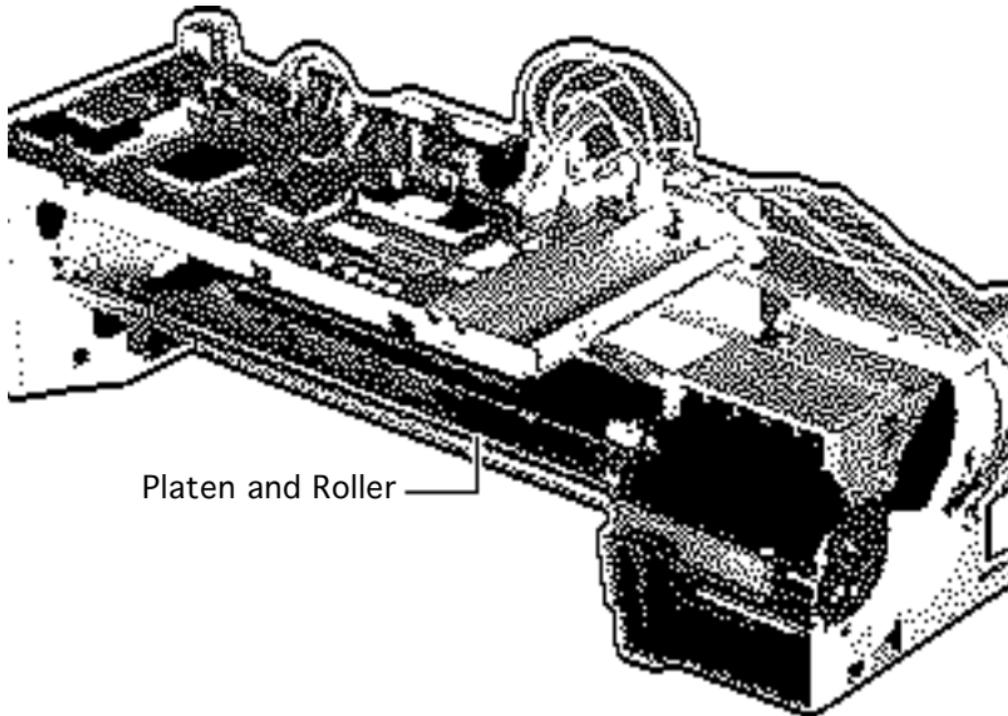


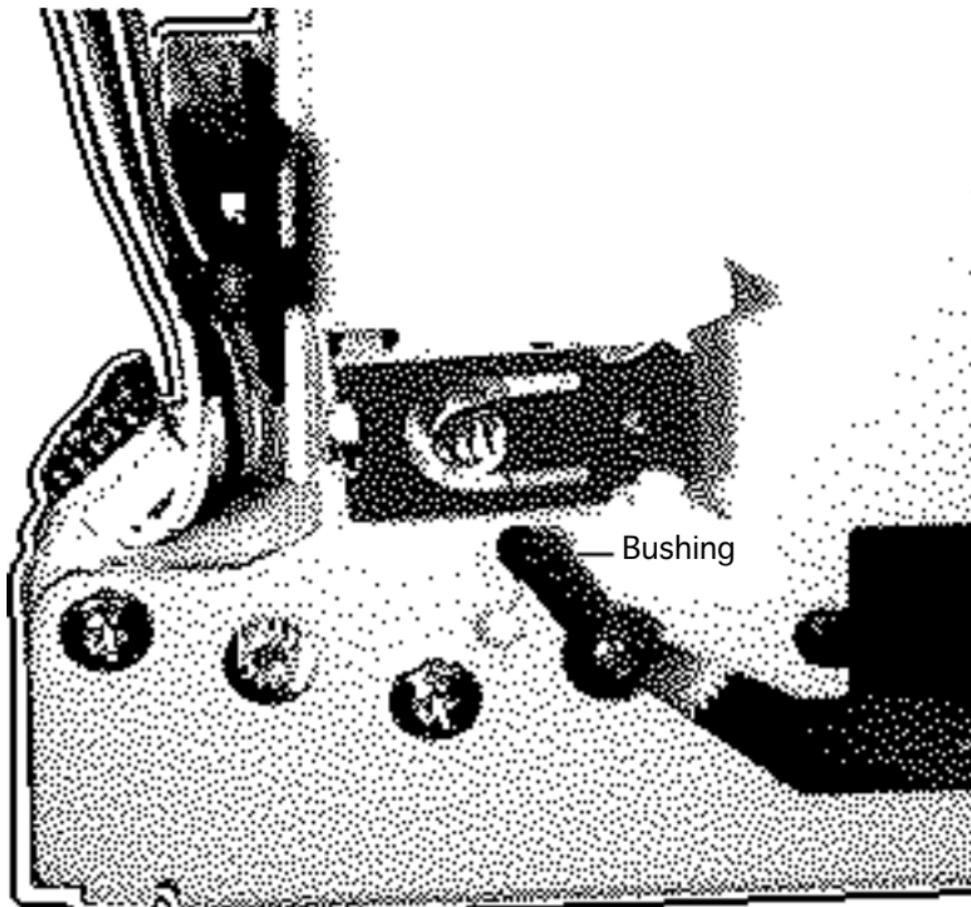
Platen and Roller

Before you begin, remove the following:

- Covers
- Cut sheet feeder
- Power supply
- Printer frame

Caution: Review the ESD precautions in Bulletins/ Safety.





- 1 **Replacement Note:** You will need a bushing kit to complete this procedure.

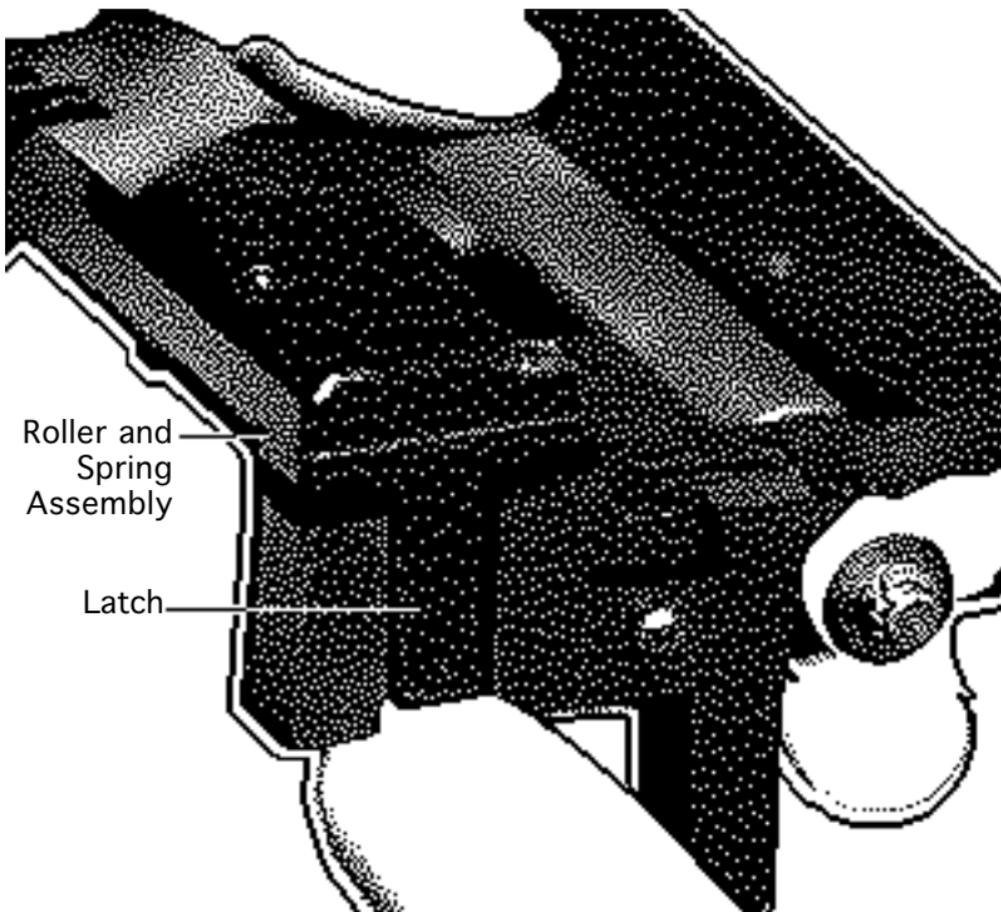
Break off the bushing and slide the platen assembly forward.

- 2 Carefully remove the washer and spring and remove the platen assembly.



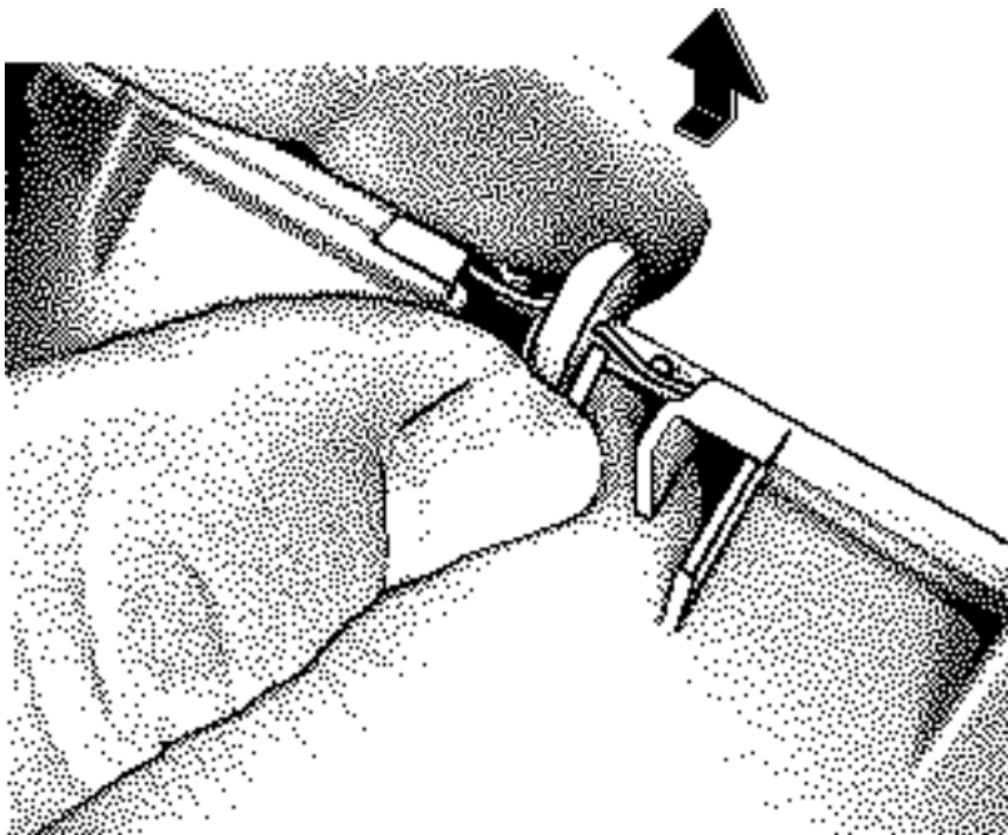


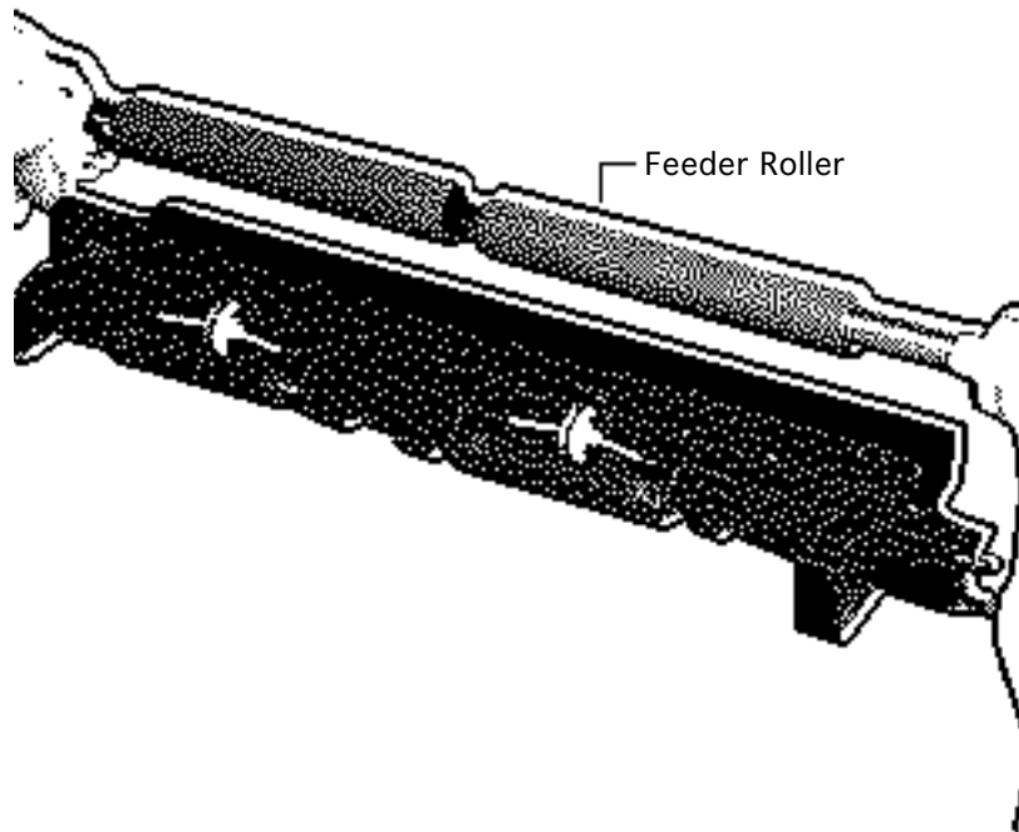
- 3 Release the two latches and remove the roller and spring assembly.





- 4 Gently grasp the spur holder unit and remove it from the roller and spring assembly.





- 5 Turn over the platen assembly.
- 6 Pull up and remove the feeder roller.



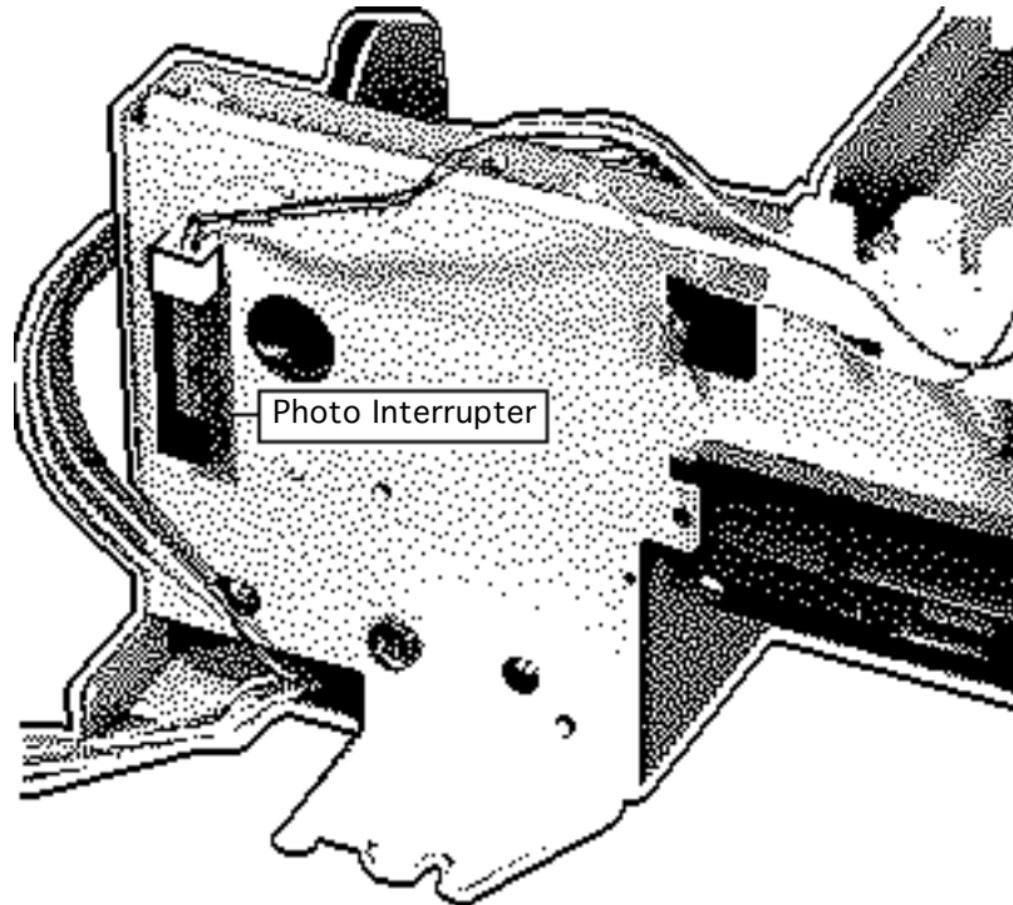


Photo Interrupter

Before you begin, remove the following:

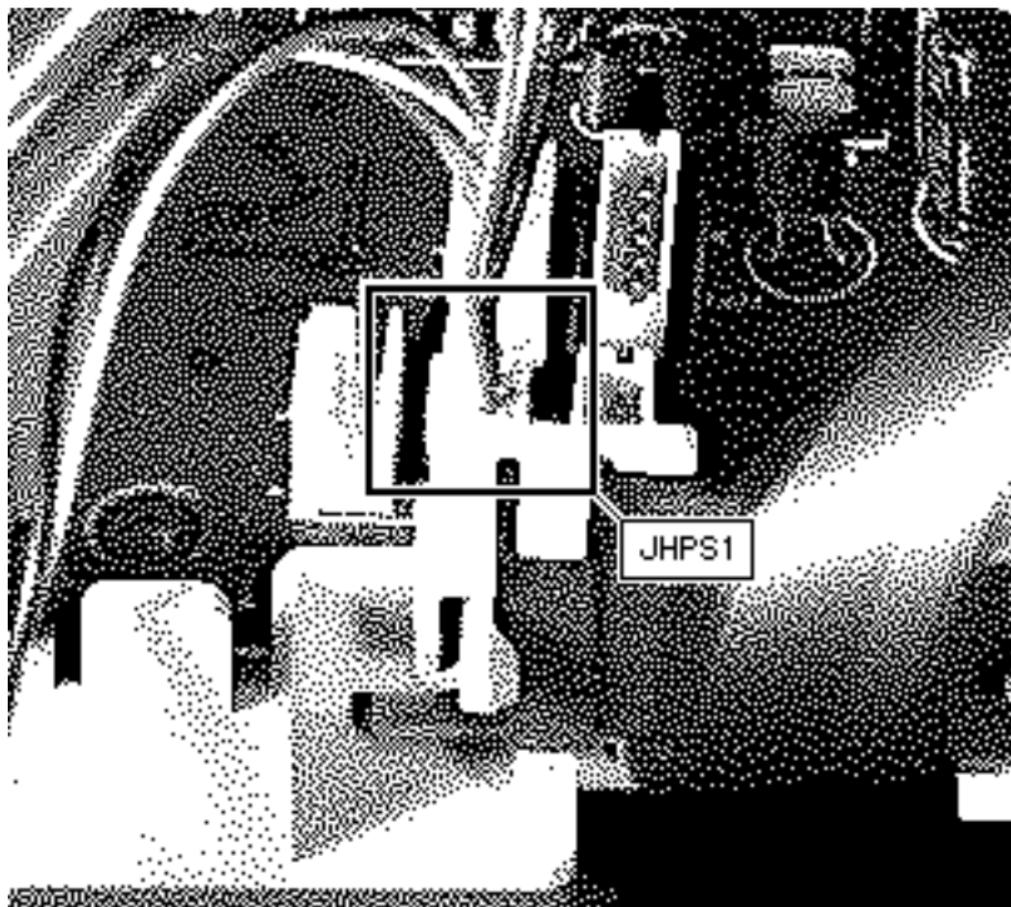
- Covers
- Cut sheet feeder
- Carriage motor
- Power supply
- Printer frame

Caution: Review the ESD precautions in Bulletins/ Safety.



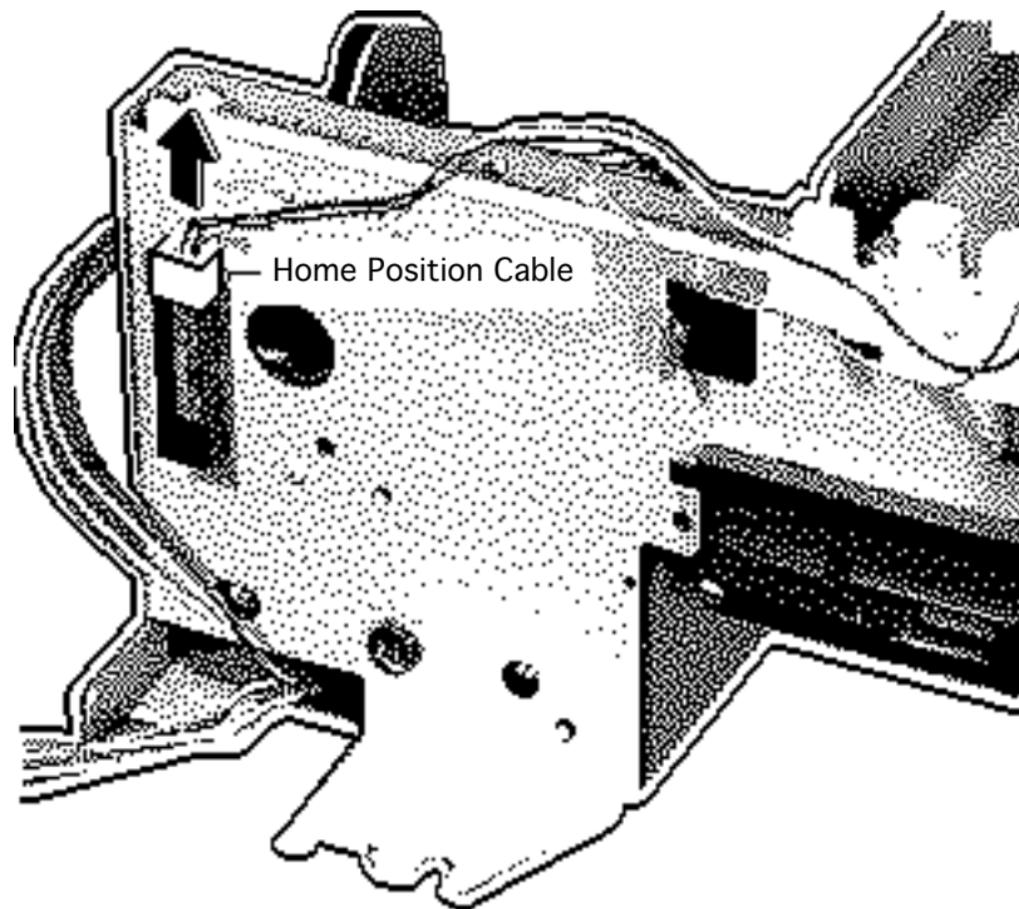


- 1 Disconnect the home position cable connector JHPS1 from the controller board.





- 2 Disconnect the home position cable from the photo interrupter.





Top Latches

Bottom Latches

- 3 Press in the two bottom latches and pull back on the photo interrupter.
- 4 Press in the top latches and remove the photo interrupter.





Purge Unit

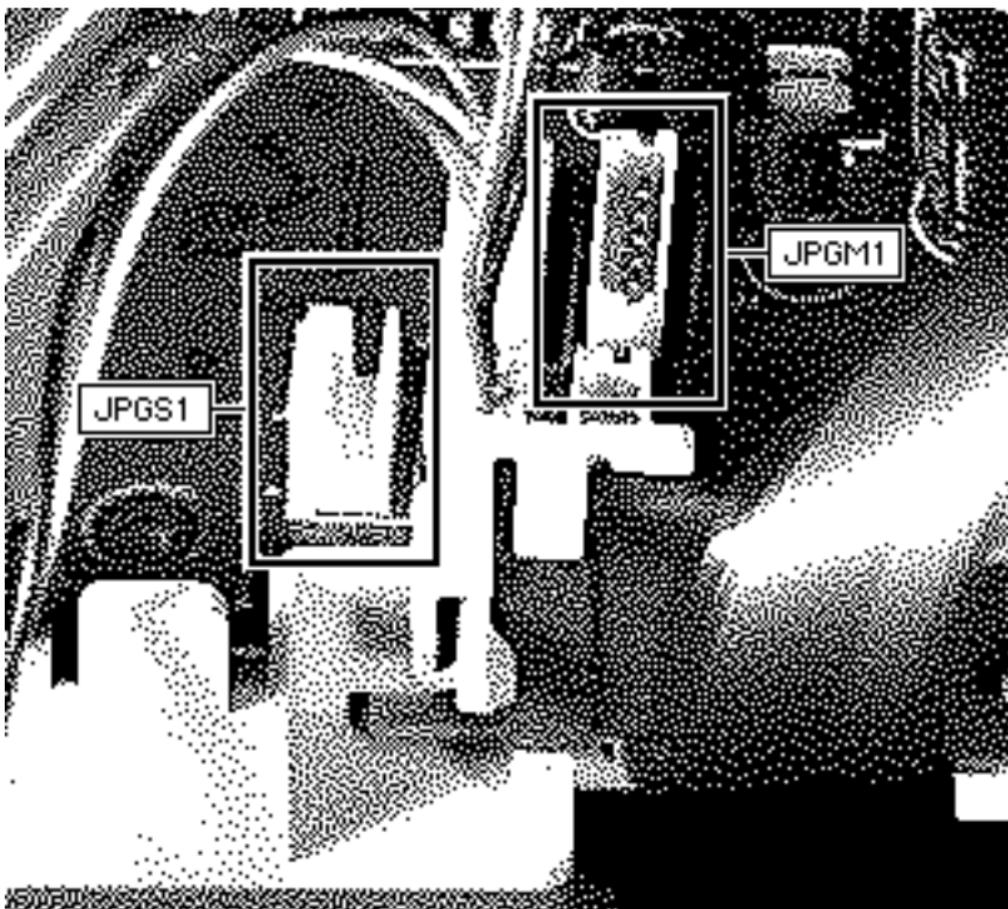
Before you begin, remove the following:

- Covers
- Cut sheet feeder
- Power supply
- Printer frame

Caution: Review the ESD precautions in Bulletins/Safety.

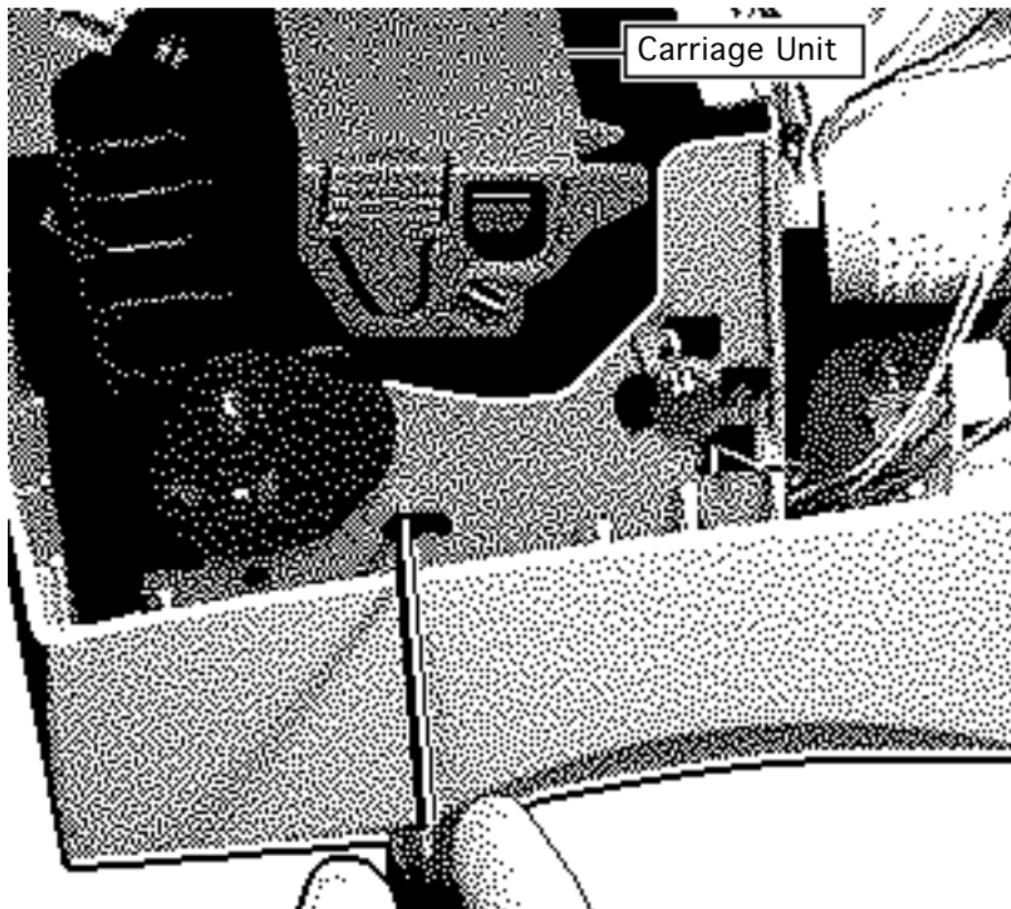
Purge Unit





- 1 Disconnect connectors JPGS1 and JPGM1 from the controller board.
- 2 Remove the wires from the mounting plate.



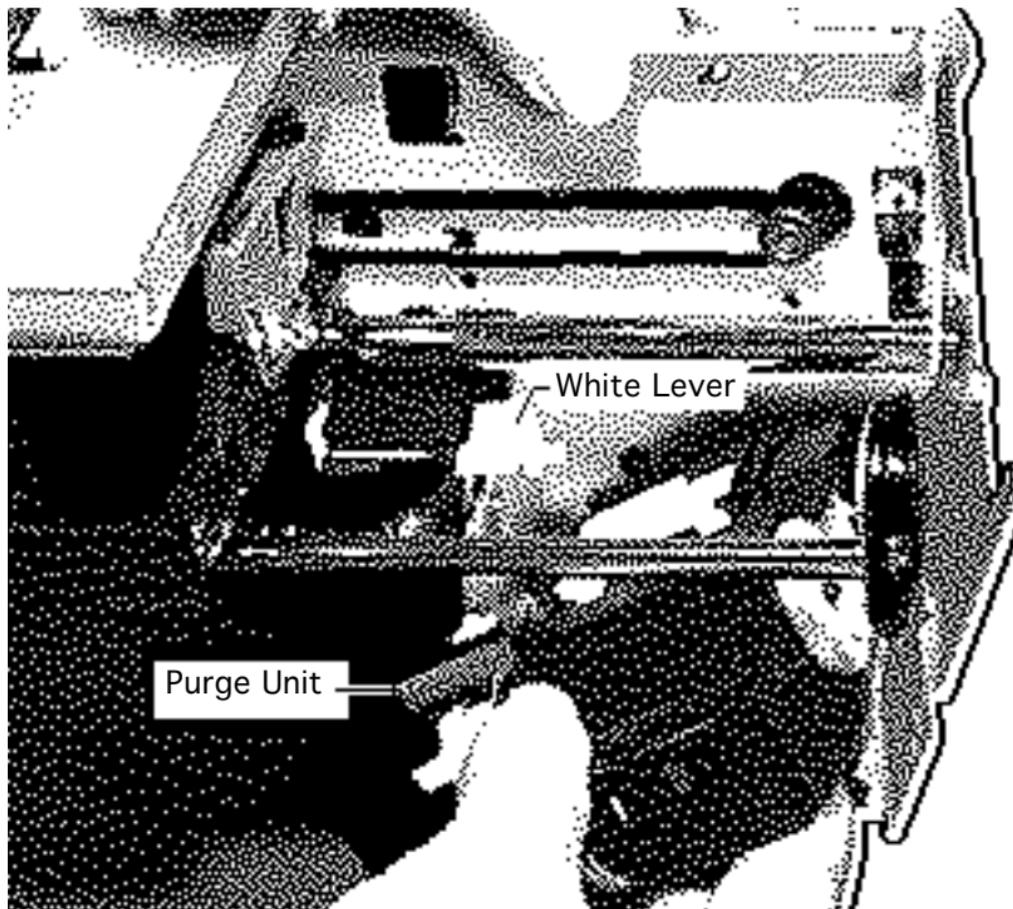


Carriage Unit

- 3 Advance the locking gear and disengage the carriage.
- 4 Move the carriage out of home position.

Caution: The print heads are now uncapped. Do not leave them uncapped for more than 12 hours or they will dry out.

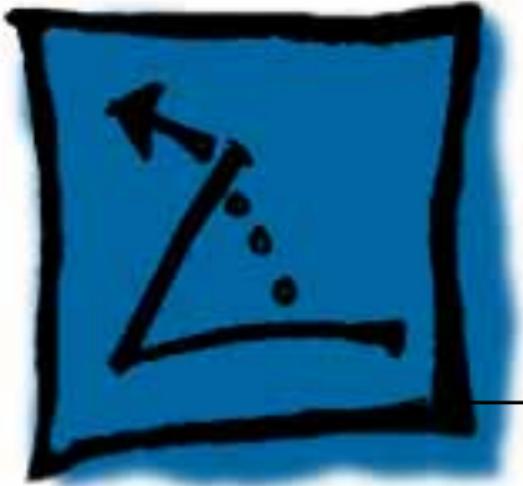




- 5 Using a Phillips screwdriver, remove the mounting screw.
- 6 Remove the purge unit.

Replacement Note: Make sure the white lever from the platen assembly is in the position shown.





Additional Procedures

Color StyleWriter Pro



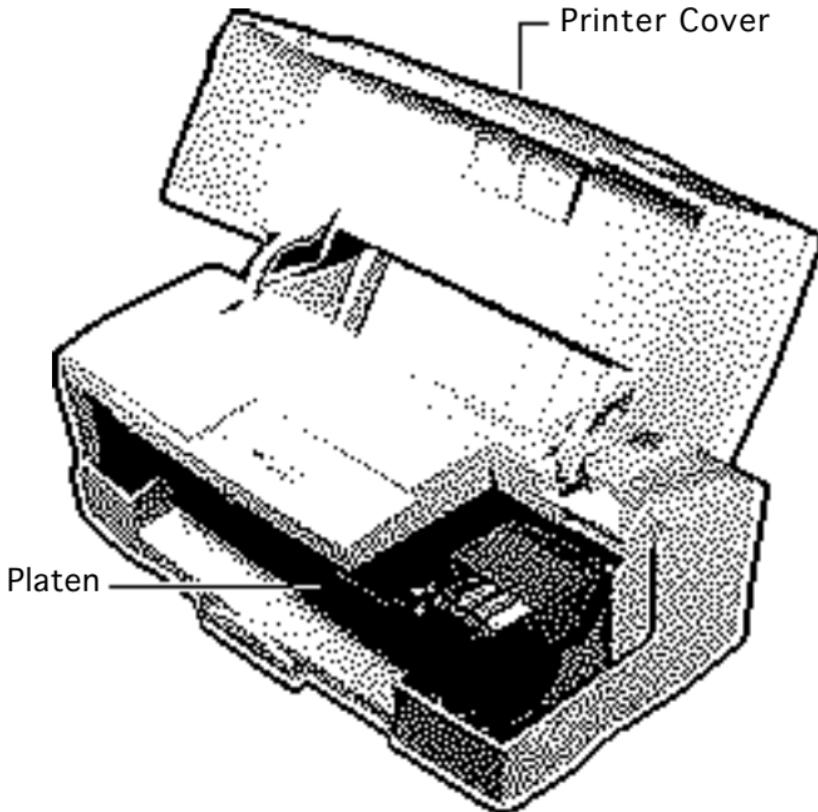


Printer Cleaning

No preliminary steps are required before you begin this procedure.

Caution: Do not get the printer's ink on your hands or clothes. Although the ink is water soluble, it contains dyes that will stain.

Using a damp cloth, wipe the ink mist off the printer cover and platen.

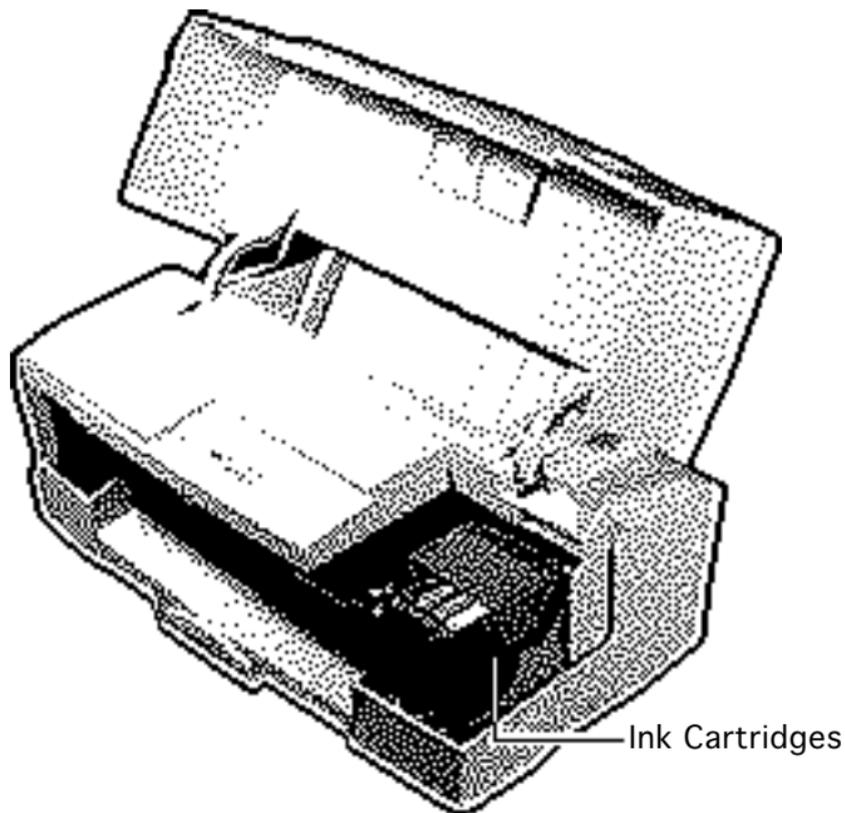


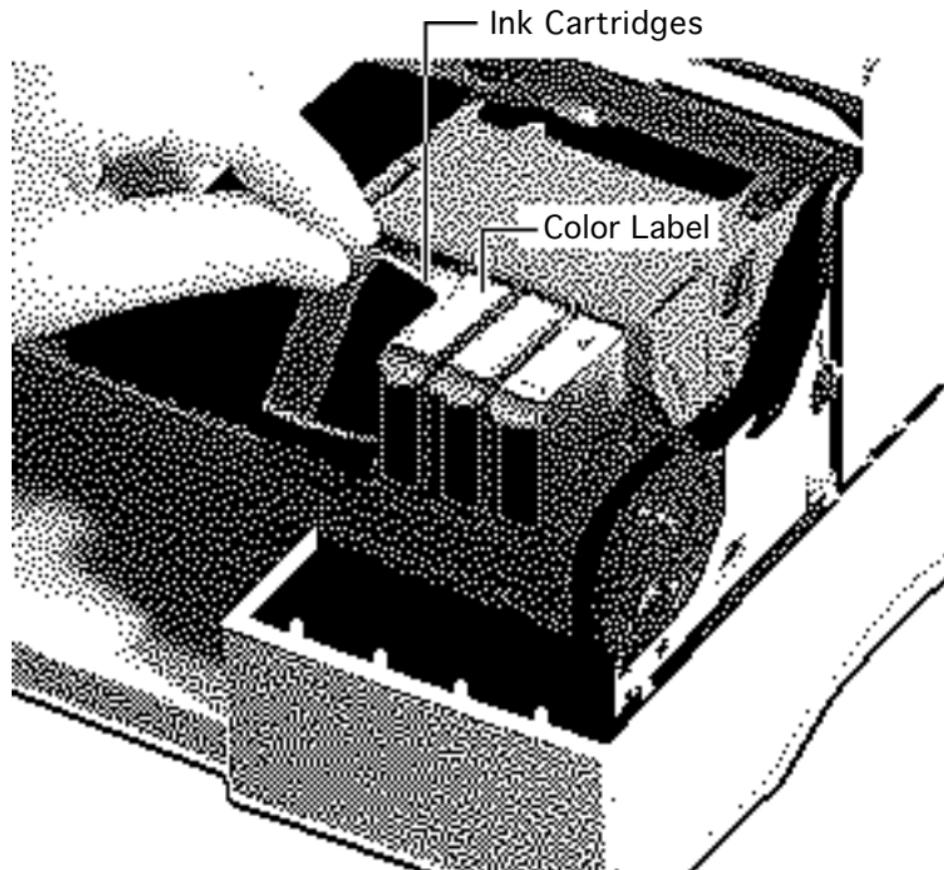


Ink Cartridge Replacement

No preliminary steps are required before you begin this procedure.

Caution: Do not get the printer's ink on your hands or clothes. Although the ink is water soluble, it contains dyes that will stain.





Note: Do not shake the ink cartridge or the ink may leak.

- 1 Grasp the top edge of the used ink cartridge and gently lift up and pull out the cartridge.
- 2 Repeat for any other used cartridges.
- 3 With the color label on top, insert the new cartridge gently into the appropriate slot. Press down until you hear a click.



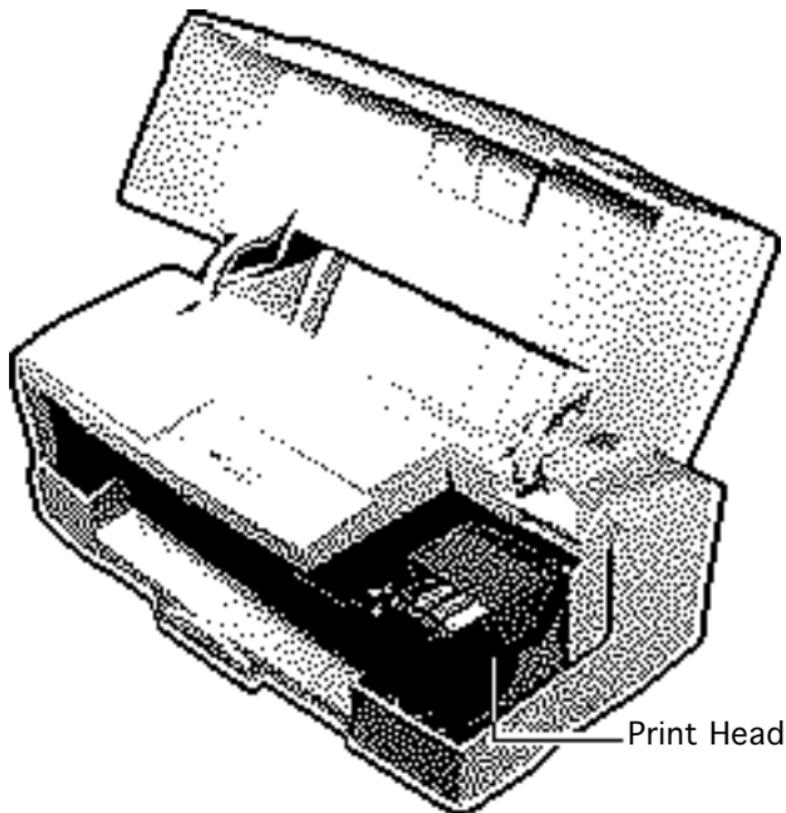


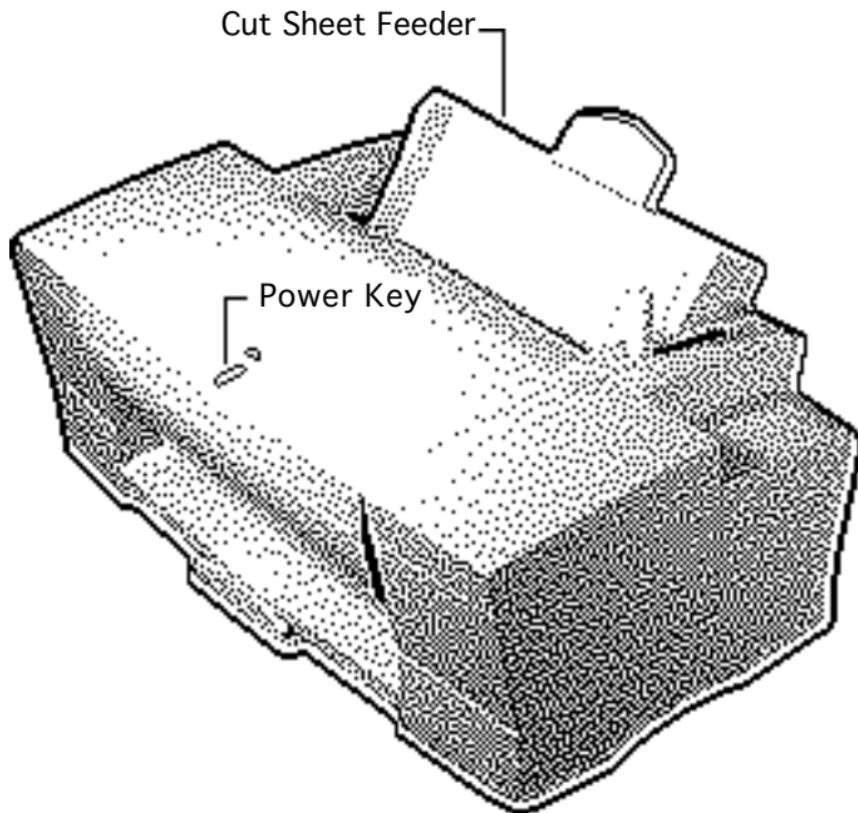
Nozzle Check

No preliminary steps are required before you begin this procedure.

Caution: Do not get the printer's ink on your hands or clothes. Although the ink is water soluble, it contains dyes that will stain.

Note: This procedure explains how to run the nozzle check test page, which indicates if the print heads need to be cleaned.





Important: Make sure the printer is off.

- 1 Load paper into the cut sheet feeder.
- 2 Hold down the power key until the printer prints the start-up test page.





Nozzle Status OK



Black



Cyan



Magenta



Yellow

Clean Nozzles



Black



Cyan



Magenta



Yellow

- 3 Examine the bottom of the printed page to determine print head status.

If the horizontal lines in the test pattern are missing, one or more ink nozzles are clogged. To clear the nozzles, perform one of the print head cleaning procedures described in this chapter.



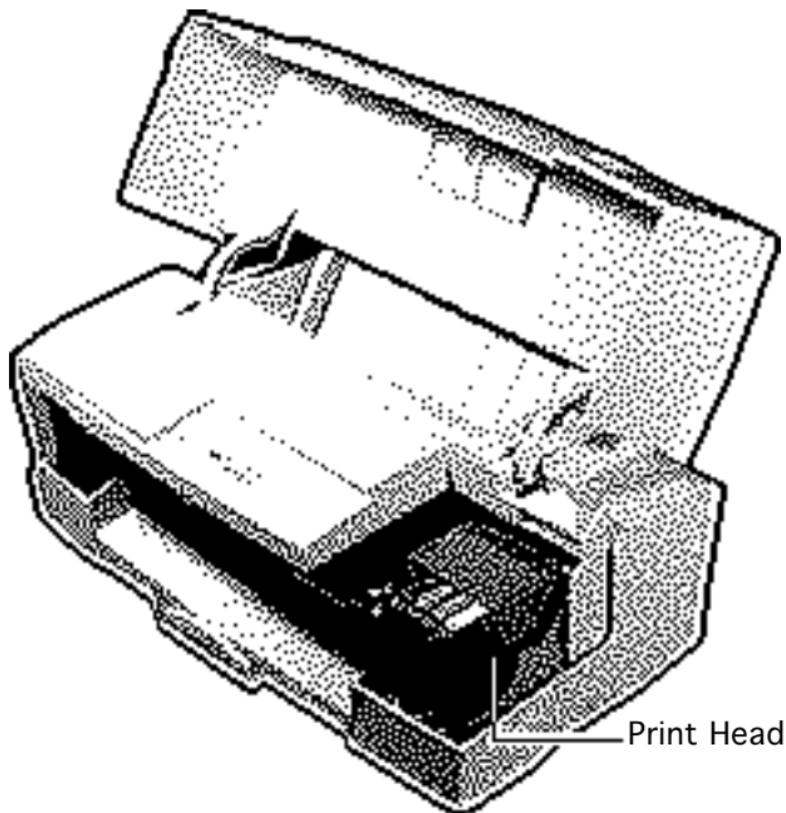


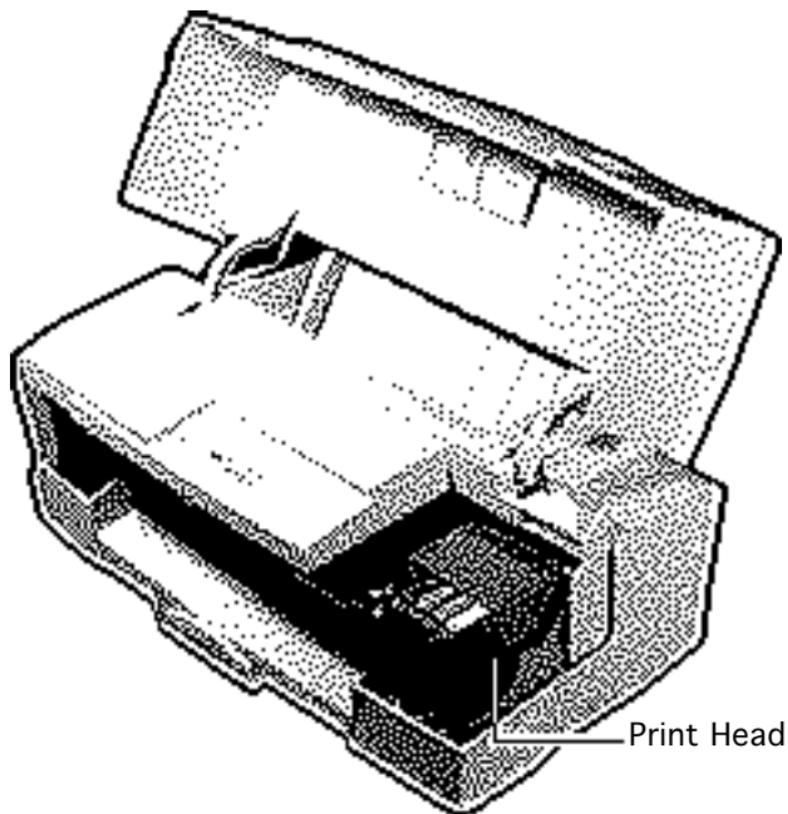
Print Head Cleaning

No preliminary steps are required before you begin this procedure.

Caution: Do not get the printer's ink on your hands or clothes. Although the ink is water soluble, it contains dyes that will stain.

Caution: To prevent the print nozzles from clogging, do not touch or wipe them.

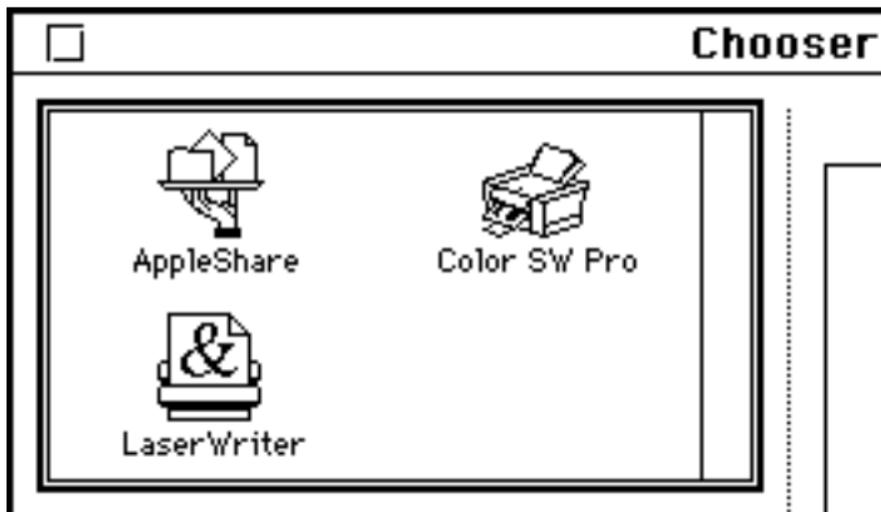




Note: Use the Cleaning option to correct blurred characters, horizontal white streaks, and missing dots caused by clogged ink nozzles. Use the Super Cleaning option when print quality does not improve after you have performed the Cleaning option two or three times.

Important: Do not use the Super Cleaning option except when absolutely necessary, since the procedure uses great amounts of ink.



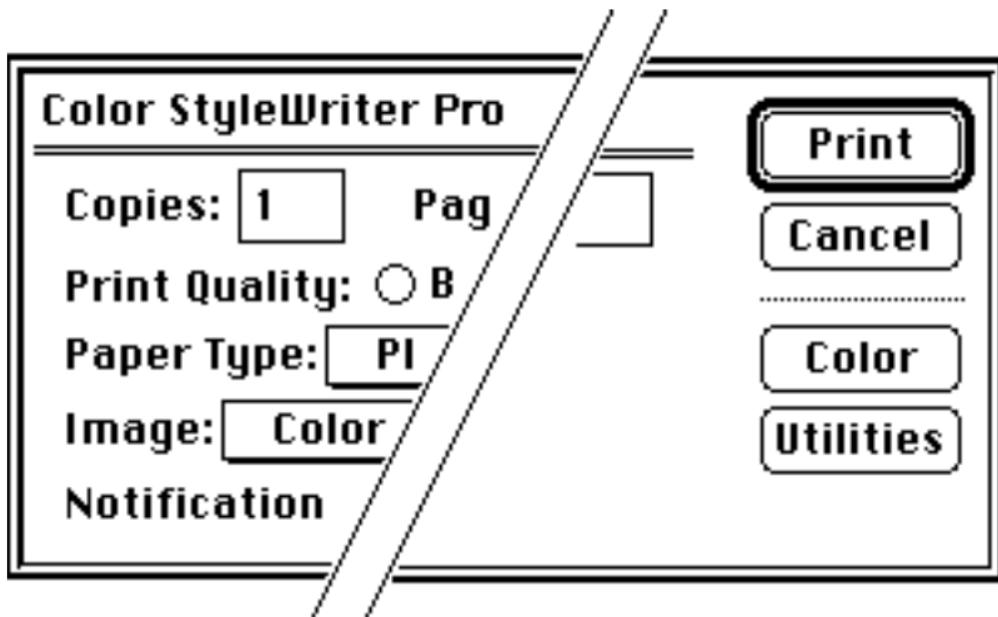


- 1 Make sure the Color StyleWriter Pro printing software is installed.
- 2 Using the Chooser, select Color StyleWriter Pro.
- 3 Open any document and select the print option or choose Print Window from the File menu.





- 4 Click the Utilities button in the Print dialog box



**Color StyleWriter Pro Utilities**

- Clean the print head before printing**
 - Black Only**
 - All Colors**
 - Super Clean (Use only as a last resort)**
- Prepare new print head before printing**
- Check alignment before printing**

- 5 Select the “Clean the print head before printing” option.
- 6 Select one of the cleaning options and click the OK button.



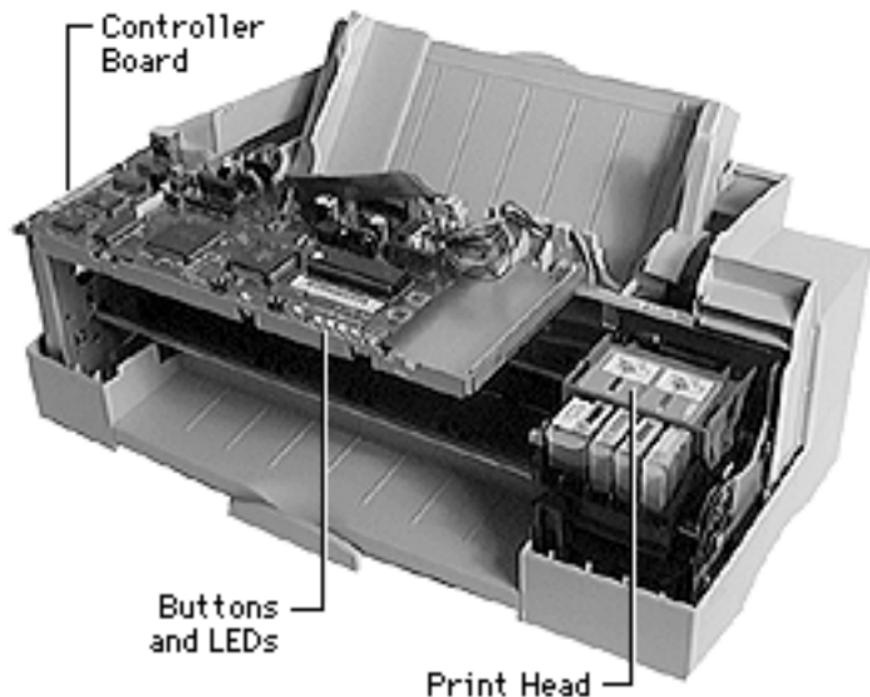


Print Head Purging

Before you begin, remove the covers.

Note: This procedure uses the buttons and LEDs on the controller board to perform an extensive purging of the print head without having to connect the printer to a computer.

Use this procedure if you suspect the print head ink is clogged.

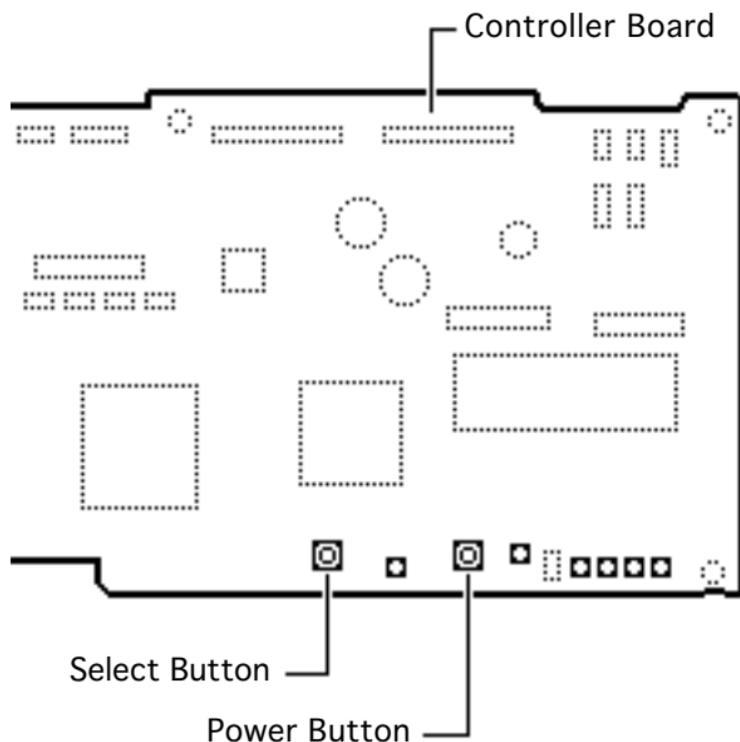




Caution: Do not get the printer's ink on your hands or clothes. Although the ink is water soluble, it contains dyes that will stain.

Caution: To prevent the print nozzles from clogging, do not touch or wipe them.





- 1 Hold down the power button and the select button and plug in the printer power cord.

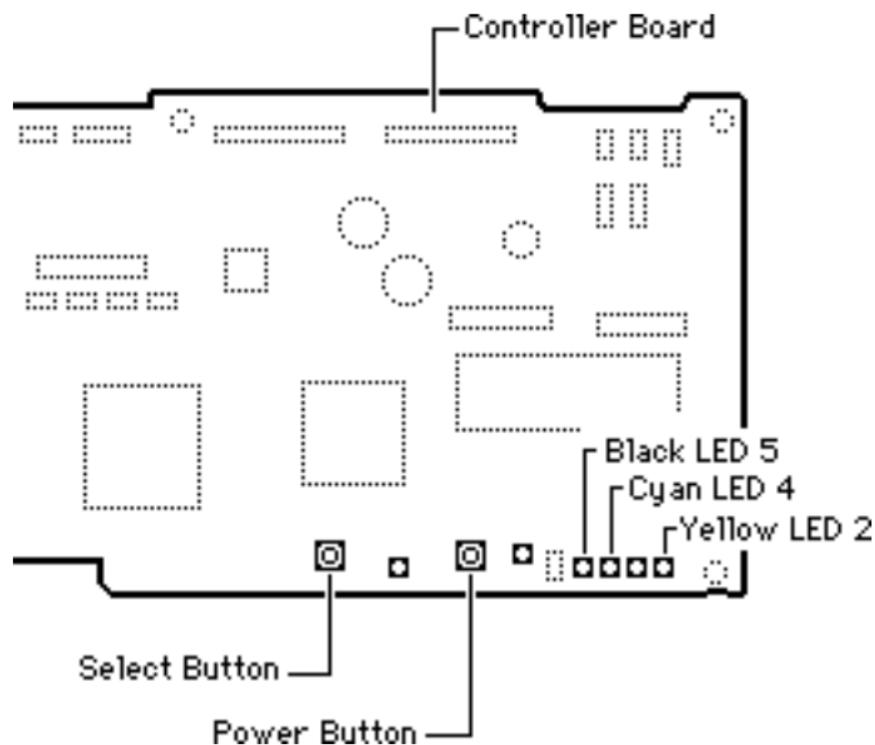
Note: The printer will emit a four-tone beep indicating that it is in service mode.





- 2 Press the select button until the black, cyan, and yellow LEDs light up; then press the power button.

An extensive purging mode begins where the print head is continuously purged for each of the colors until you turn off the power.



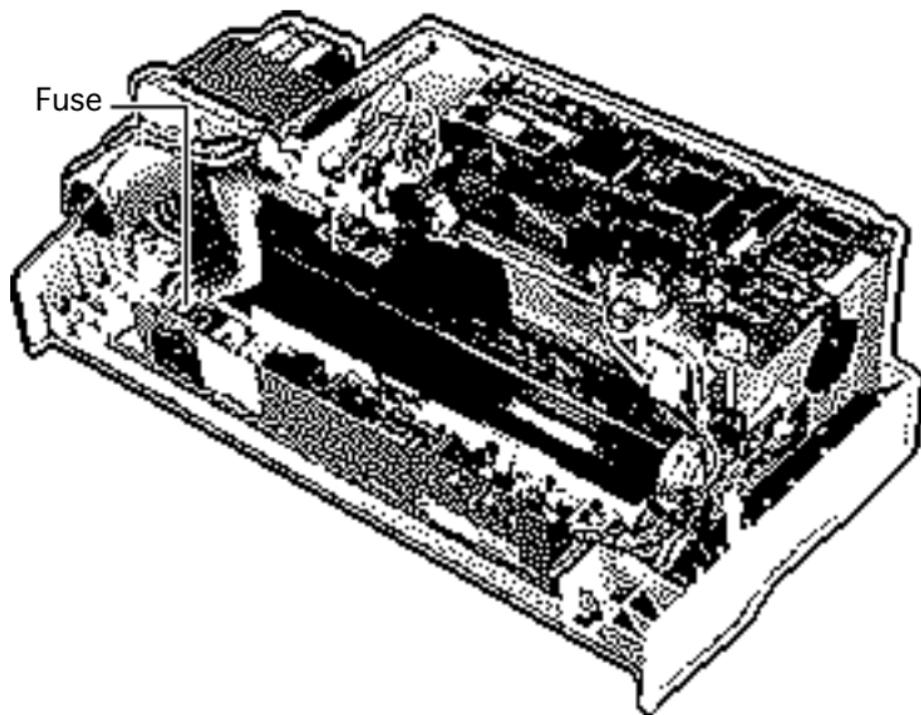


Fuse Replacement

Before you begin, remove the following:

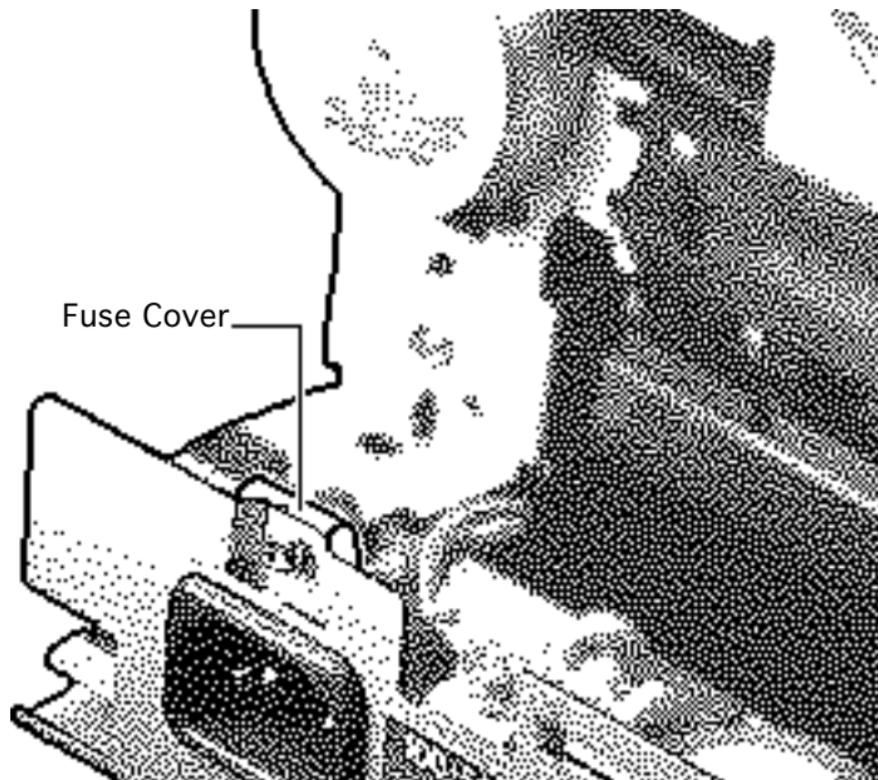
- Covers
- Cut sheet feeder

Caution: Review the ESD precautions in Bulletins/ Safety.



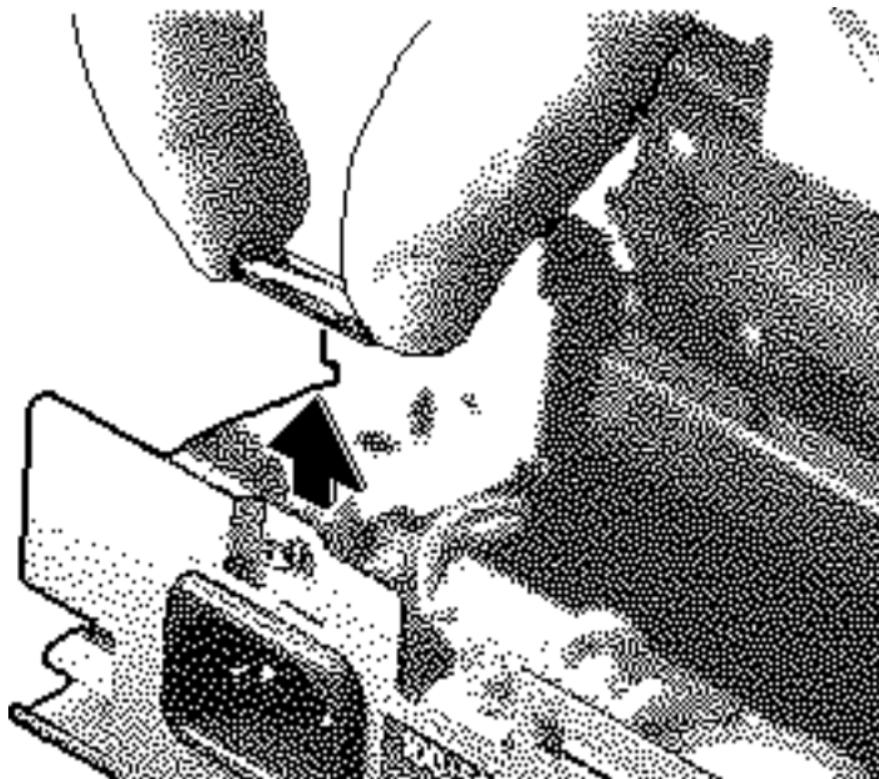


- 1 Remove the fuse cover.





- 2 Remove the fuse.





Adjustments

Color StyleWriter Pro

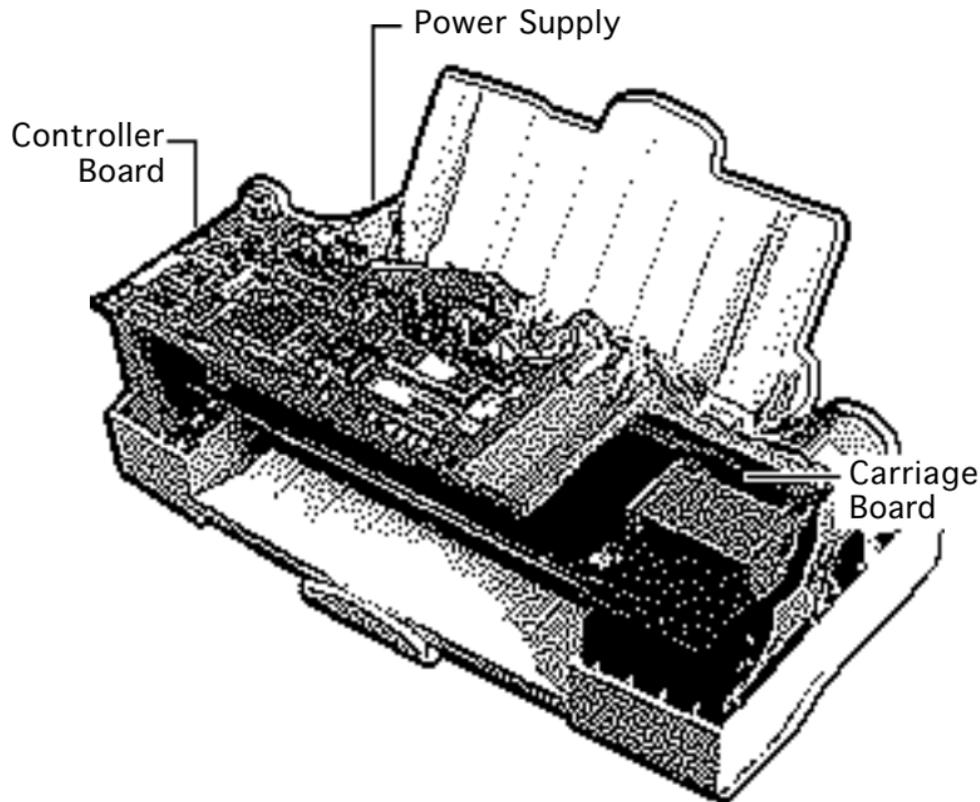


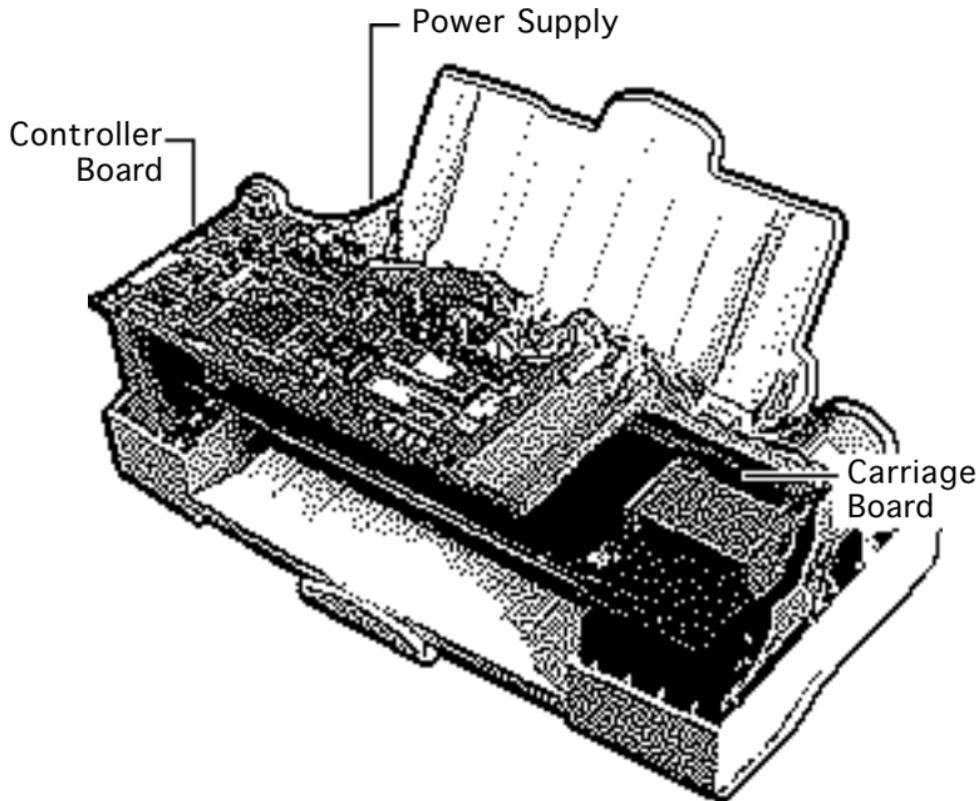


Color SW Pro Utility

Before you begin, remove the covers.

Note: The Color StyleWriter Pro Utility must be run after replacing the controller board, power supply, the carriage board, or the ink absorber plates. The Utility downloads new parameters to the EEPROM on the controller board.

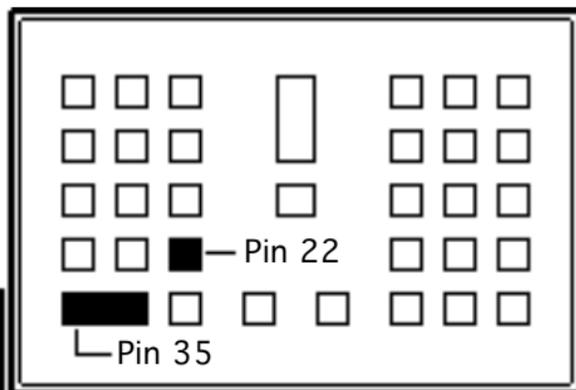




Before running the utility, you must first enter into service mode and then into the EEPROM download mode (accomplished in this procedure). The utility can then connect to the printer and download the new parameters.

- 1 Connect the printer to a Macintosh and make sure the printer's power cord is unplugged.

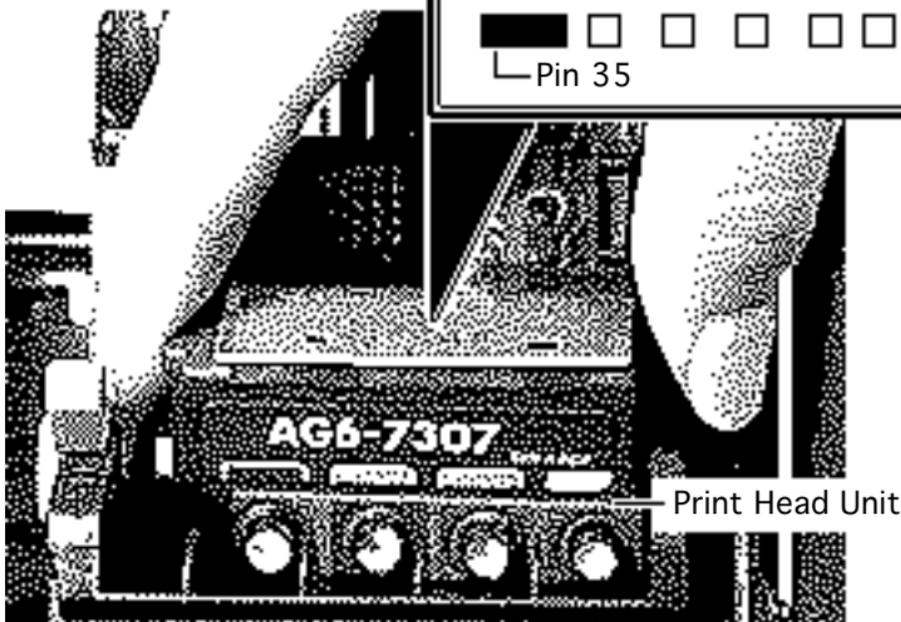


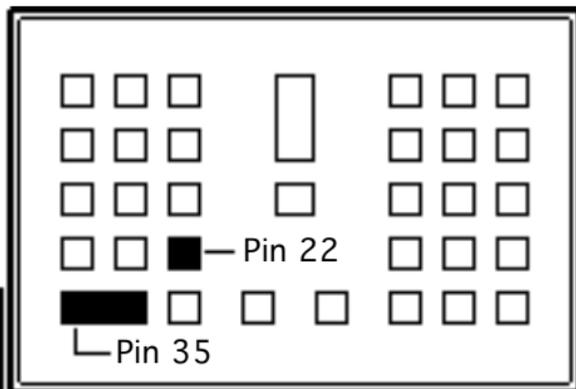


- Note:** If the controller board or power supply has been replaced, you will need to measure the print head resistance.

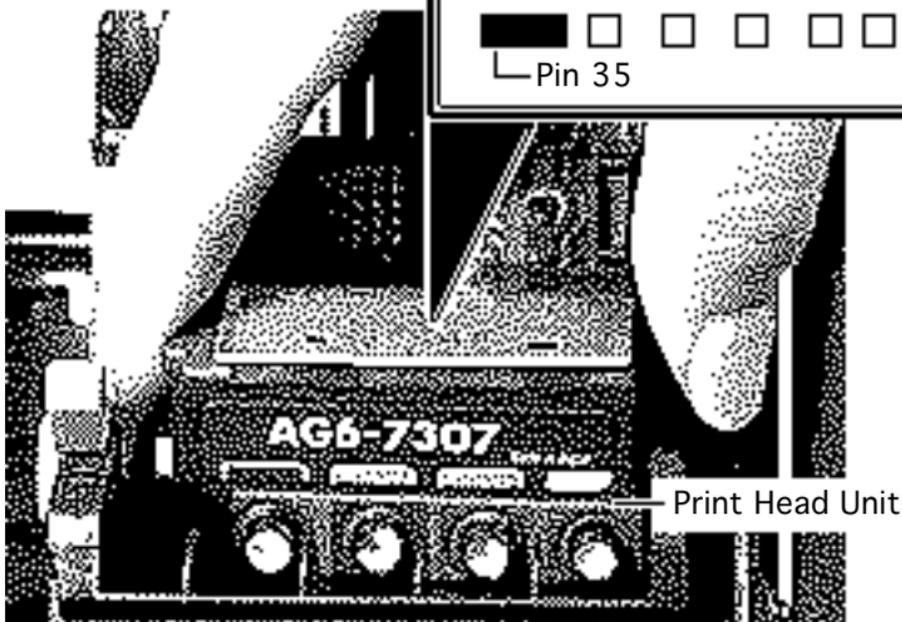
Using a multimeter, measure the resistance between pins 22 and 35 on the top of the print head unit.

- Note the measurement. It will need to be entered later.





- 4 The reading should be within the range of 225–327 ohms. If the reading does not fall in this range, replace the print head unit.
- 5 Connect the printer to a Macintosh and make sure the printer's power cord is unplugged.

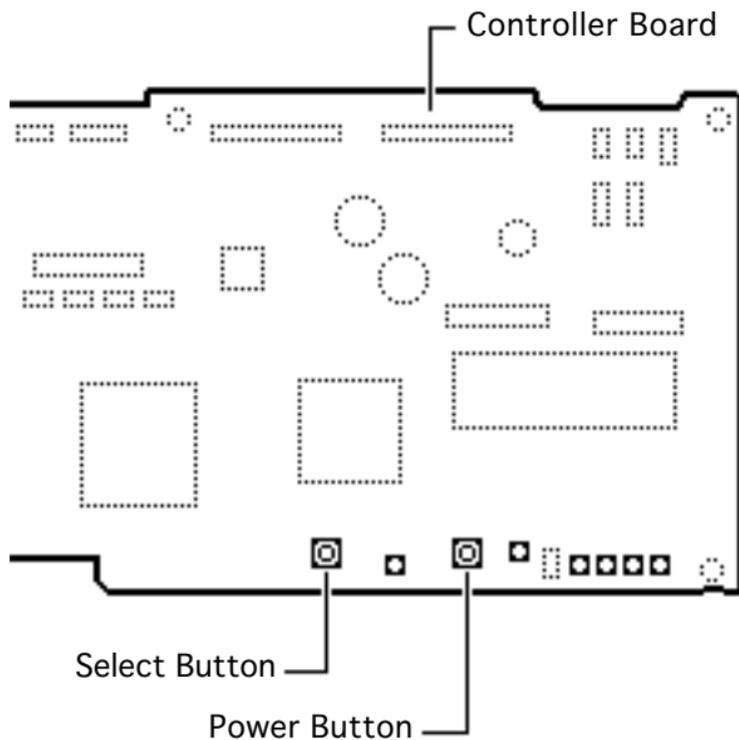




Service Mode

- 1 Hold down the power and select buttons and plug in the printer power cord.

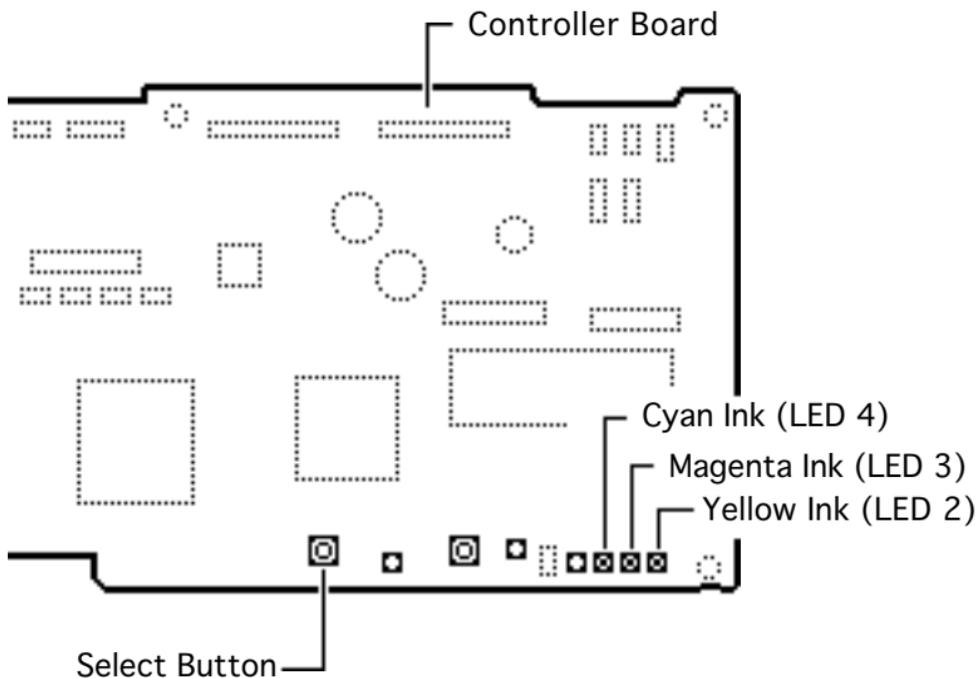
Note: The printer will emit a four-tone beep indicating that it is in the service mode.





EEPROM Download Mode

Press the select button until the cyan (LED4), magenta (LED3), and yellow (LED2) LEDs light up.

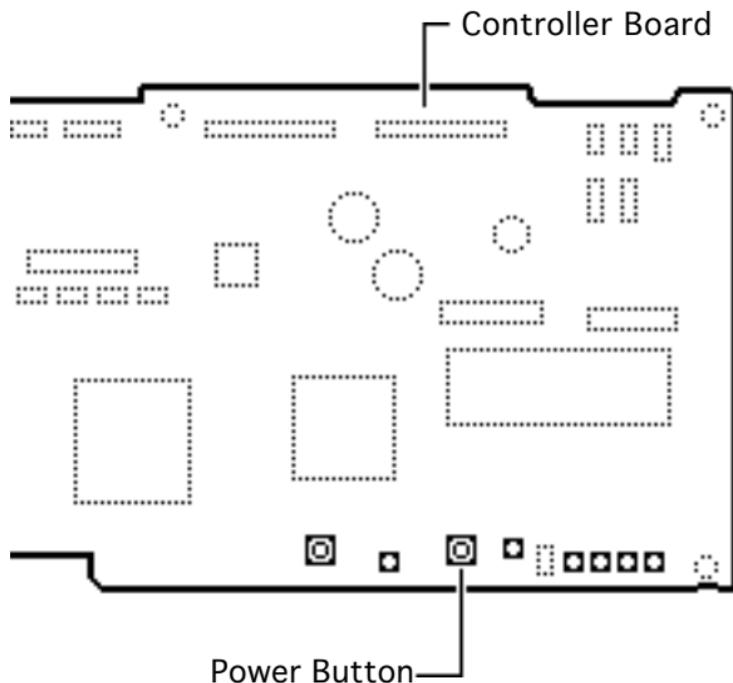




Using the Utility

Launch the utility program and press the power button.

Note: The utility is on the Service Source CD in the Diagnostics folder and on AppleLink in the Service/ Training folder.





Apple Color StyleWriter Pro Setup Utility

Serial Port:  

Module which was replaced:

Controller PCB **Power Supply**
 Carriage PCB **Ink Absorber Plates**

Please Enter the Following Parameters:

Room Temperature (°C or °F):

Print Head Resistance (Ω):

Years Since Wast Ink Last Emptied:

Note: Make sure AppleTalk is inactive when using the printer port.

Note: If the CPU has an internal modem, use the Control Panel to turn off the modem.





Apple Color StyleWriter Pro Setup Utility

Serial Port:  

Module which was replaced:

Controller PCB **Power Supply**
 Carriage PCB **Ink Absorber Plates**

Please Enter the Following Parameters:

Room Temperature (°C or °F):

Print Head Resistance (Ω):

Years Since Wast Ink Last Emptied:

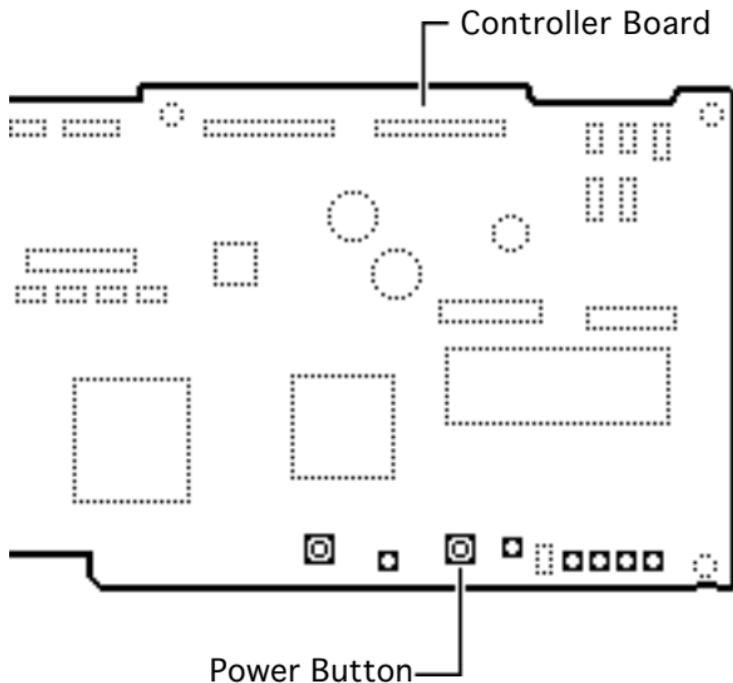
- 1 When the utility setup dialog appears, select the serial port the printer is plugged into.
- 2 Select the module that was replaced.
- 3 Enter the appropriate values and click “Send to printer.”

Note: The printer will emit two four-tone chords when the parameters have been received.





- 4 Press the power button to turn the printer off. Unplug the printer.

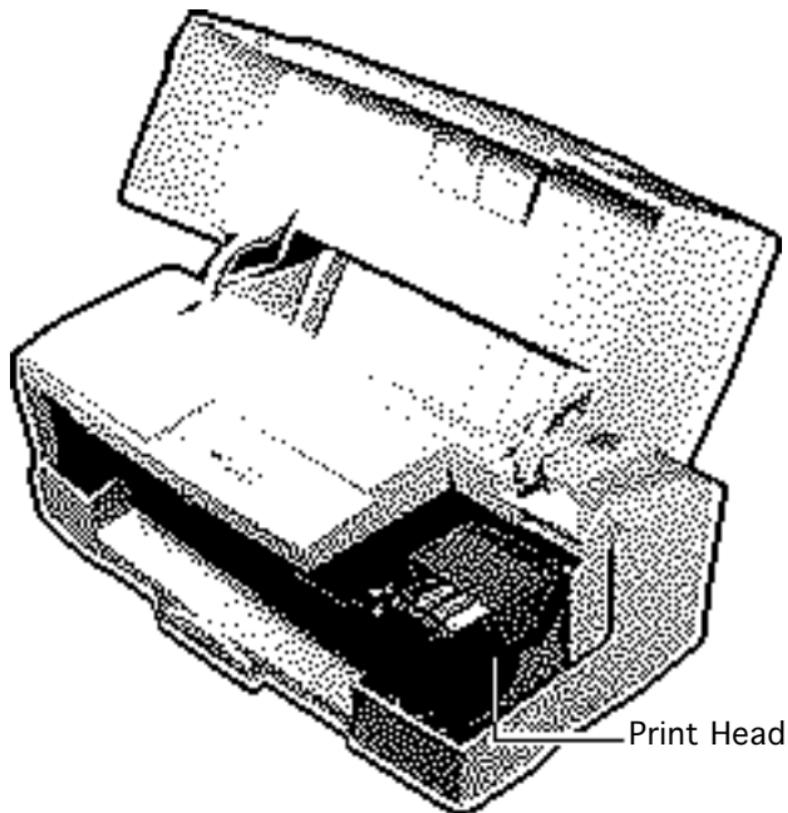


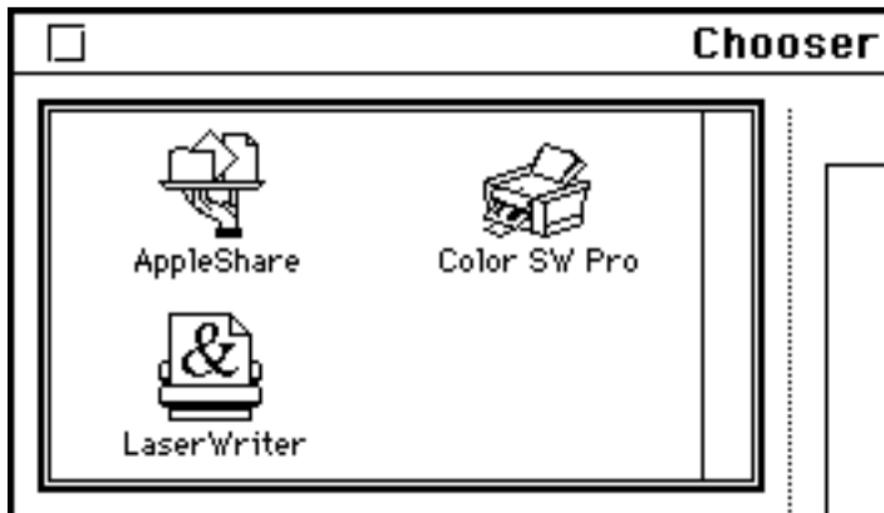


Alignment

No preliminary steps are required before you begin this procedure.

Note: This procedure is a bidirectional registration of the print head. Perform this procedure after you replace the carriage or if you notice any blurring of printed characters.



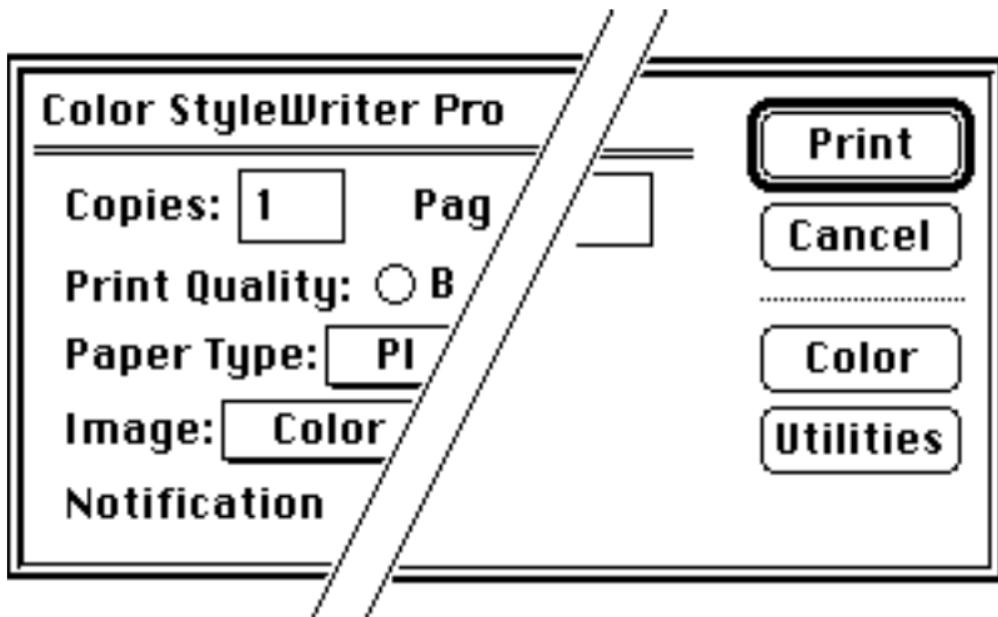


- 1 Connect the printer to a Macintosh and make sure the Color StyleWriter Pro printing software is installed.
- 2 Using the Chooser, select the Color StyleWriter Pro.
- 3 Open any document and select the print option or choose Print Window from the File menu.





- 4 Click the Utilities button in the Print dialog box



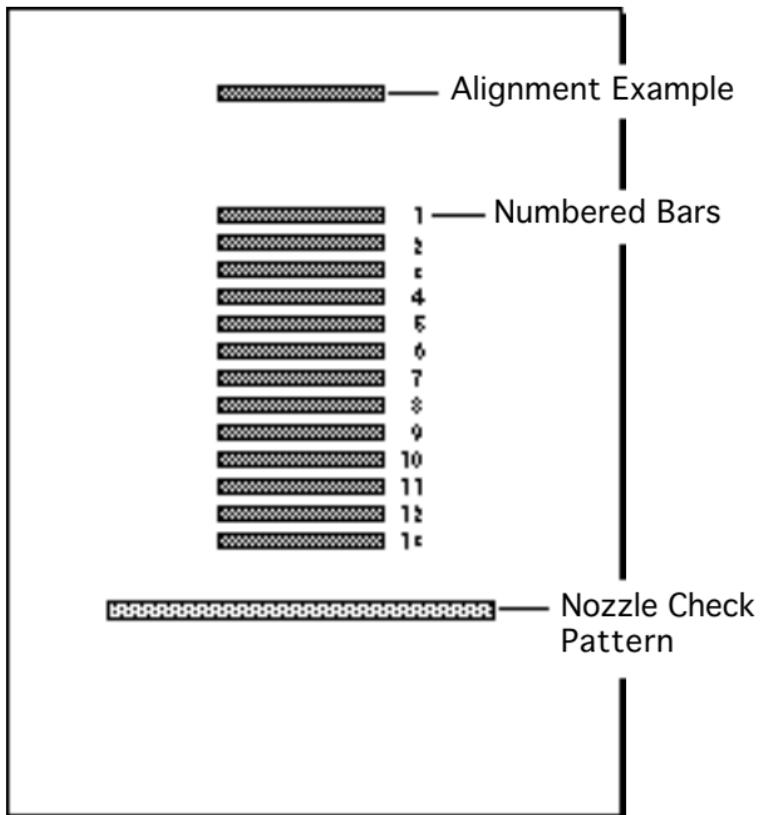


- 5 Select the “Check alignment before printing” option.

Color StyleWriter Pro Utilities

- Clean the print head before printing**
 - Black Only**
 - All Colors**
 - Super Clean (Use only as a last reso**
- Prepare new print head before printing**
- Check alignment before printing**





- 6 **Note:** The printer will produce a test page before it prints the document or window you selected.

Examine the printed test page to determine the numbered bar that matches the alignment example.

Note: After the test page has been printed a dialog box for the alignment will appear.





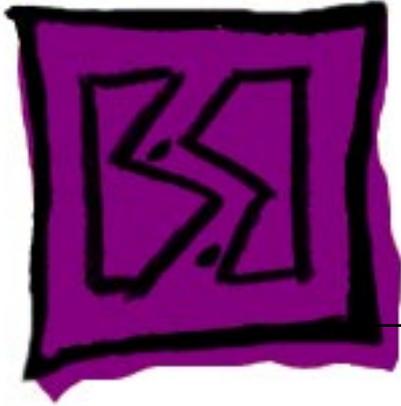
Color StyleWriter Pro Alignment

Look at the test page and decide which numbered bar looks most like the black | at the top of the page. Type the number the most similar test bar in this box.

- 7 Type the number in the dialog box.
- 8 Click the OK button.

Note: The printer will now print the document or window you selected.





Exploded View

Color StyleWriter Pro



