

POWIS PARKER

FOILFAST® PRINTER

MODEL 21 USER'S MANUAL



IMPORTANT - READ THIS AGREEMENT CAREFULLY BEFORE INSTALLING THE FOILFAST PRINTER DRIVER SOFTWARE ON YOUR COMPUTER. By installing the software, you indicate your acceptance of the following Powis Parker Inc. License Agreement ("Agreement"). If you do not agree with the terms of this agreement, do not install the software on your computer.

**POWIS PARKER INC.
LICENSE AGREEMENT AND WARRANTY FOR THE FOILFAST™ PRINTER**

This Agreement is a legal agreement between you (either an individual or a single entity) and POWIS PARKER INC. ("Powis Parker") regarding the use of the Foilfast™ printer, which includes computer software and associated printed materials. By installing or copying the computer software, you are agreeing to be bound by the terms of this Agreement. If you do not agree to be bound by the terms of this Agreement, please do not install the software. If you do not agree to be bound by the terms of this Agreement, you are not authorized to use the PRINTER or any portion thereof, including the SOFTWARE. Any unauthorized use is a violation of the law and acts as a total nullification of all warranties.

1. **COPYRIGHT.** The SOFTWARE is protected by United States copyright laws and international copyright treaty provisions, as well as other intellectual property laws and treaties. The SOFTWARE is licensed pursuant to the terms and conditions of this Agreement and is not sold. You may not copy the printed materials accompanying the PRINTER or SOFTWARE except as specifically permitted herein.
2. **GRANT OF SOFTWARE LICENSE.** Subject to the terms and conditions of this Agreement, Powis Parker hereby grants to you a non-exclusive, non-transferable (except as expressly permitted herein), non-assignable license (without right to sublicense) to use the SOFTWARE on any computer with an attached PRINTER. For purposes of this Agreement, the SOFTWARE shall be deemed in "use" on a computer when it is loaded into temporary memory (i.e. RAM) or installed into permanent memory (e.g., hard disk, CD-ROM, or other storage device) of that computer. You may make one (1) copy of the SOFTWARE for backup or archival purposes only.
3. **RESTRICTIONS.** You may not rent or lease the SOFTWARE, but you may transfer the SOFTWARE and accompanying materials on a permanent basis to a recipient acquiring the PRINTER, provided that you retain no copies and the recipient agrees to be bound by the terms of this Agreement. You may not reverse engineer, decompile, disassemble or otherwise attempt to derive source code from the SOFTWARE. If the SOFTWARE is an update or has been updated, any transfer must include the most recent update and all prior versions. You may not distribute copies of the SOFTWARE to third parties. You may not copy, transfer or grant any rights in or to all or any portion of the SOFTWARE, except as expressly provided herein. You must comply with all applicable laws regarding the use of the SOFTWARE. You may not modify or prepare derivative works of the SOFTWARE. You may not transmit the SOFTWARE over a network, by telephone, or electronically by any means.
4. **RIGHTS IN SOFTWARE.** All rights and title in and to the SOFTWARE and any copies thereof are owned by Powis Parker or its suppliers. This Agreement is not a sale and does not transfer to you any title or ownership interest in or to the SOFTWARE or any patent, copyright, trade secret, trade name, trademark or other intellectual property right therein. You shall not remove, alter, or obscure any proprietary notices contained on or within the SOFTWARE and shall reproduce such notices on any back-up copy of the SOFTWARE. All title and intellectual property rights in and to the content that may be accessed through use of the SOFTWARE is the property of the respective content owner and may be protected by applicable copyright or other intellectual property laws and treaties. This Agreement grants you no rights to use such content.
5. **LIMITED WARRANTY.** Powis Parker warrants that
 - (i) the PRINTER will be free from defects in materials and workmanship, assuming normal use, for a period of twelve (12) months from the date of purchase; and
 - (ii) the SOFTWARE will perform substantially in accordance with the accompanying written materials for a period of ninety (90) days from the date of receipt. Powis Parker does not warrant the operation of PRINTER or the SOFTWARE to be uninterrupted or error-free. The limited warranty set forth in this Section 5 covers only those defects which arise as a result of normal use of the PRINTER, and shall not apply in the event of any:
 - a) improper or inadequate maintenance;
 - b) unauthorized modifications or misuse;
 - c) damage due to accident, abuse or negligence;
 - d) operation of the PRINTER beyond the designated duty cycle;
 - e) operation outside of the environmental specifications for PRINTER;
 - f) operation of the PRINTER with a mechanical switchbox without the use of designated surge protector;
 - g) customer supplied software or interfacing;
 - h) operation of non-supported printing media;
 - i) use of other than POWIS PARKER specified foil cartridges;
 - j) improper site preparation and maintenance.
6. **CUSTOMER REMEDIES.**
 - a. If the Software proves defective during the applicable warranty period, you may return the defective disk to your local Powis Parker products (Fastback®) dealer representative, along with a dated proof of purchase; the dealer representative will replace it free of charge. If the Software proves defective after the applicable warranty period has expired, you may obtain a replacement disk by sending the defective disk and a check for the purchase price to your local Fastback® dealer.

- b. If the PRINTER proves defective during the applicable warranty period, the dealer shall, at its option, either:
- (i) repair the PRINTER;
 - (ii) replace the PRINTER with one that is new or like-new, provided that the replacement has equivalent or better functionality than the one it replaces; or
 - (iii) if the Fastback® dealer is unable to repair or replace a defective PRINTER covered by warranty, the dealer shall, within a reasonable time after notification of defect, refund the purchase price for the PRINTER, provided that you return the defective PRINTER along with proof of purchase.
7. NO OTHER WARRANTIES. EXCEPT FOR THE LIMITED WARRANTY SET FORTH IN SECTION 5 ABOVE, THE PRINTER AND SOFTWARE ARE PROVIDED "AS-IS", AND POWIS PARKER GRANTS NO OTHER WARRANTIES, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, REGARDING THE PRINTER, SOFTWARE OR RELATED MATERIALS, THEIR FITNESS FOR PARTICULAR PURPOSE, THEIR QUALITY, THEIR MERCHANTABILITY, OR OTHERWISE.
8. LIMITATION OF LIABILITY: TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL POWIS PARKER OR ITS SUPPLIERS BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES WHATSOEVER (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, INTERRUPTION, LOSS OF BUSINESS INFORMATION, OR ANY OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OF OR INABILITY TO USE THE PRINTER OR THE SOFTWARE, EVEN IF POWIS PARKER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. BECAUSE SOME STATES AND JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATION MAY NOT APPLY.
9. U.S. GOVERNMENT RESTRICTED RIGHTS. The SOFTWARE is provided with restricted rights. Use, duplication, or disclosure by the United States Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 or subparagraphs (c)(1) and (2) of the Commercial Computer Software Restricted Rights at 48 CFR 52.227-19, as applicable.
10. MISCELLENEOUS. This Agreement is governed by the laws of the United States and of the State of California without reference to conflicts of laws principles. You shall not assign, sublicense or otherwise transfer the rights or license granted hereunder, by agreement or by operation of law, without the prior written consent of Powis Parker, and all assignments in violation of this prohibition shall be null and void. This Agreement is the complete and exclusive agreement of Powis Parker and you and supersedes all other communications, oral or written, relating to the subject matter hereof. No change to this Agreement shall be valid unless in writing and signed by the party against whom enforcement is sought. The waiver or failure of Powis Parker or you to exercise in any respect any right or rights provided for herein shall not be deemed a waiver of any further right hereunder. If any provision of this Agreement is held unenforceable, the remainder of this Agreement will continue in full force and effect.
11. POWIS PARKER PRODUCT SUPPORT. To obtain limited warranty service or product support, you should first contact your local Fastback® (Powis Parker products) dealer. To locate the Fastback® dealer nearest you, you may call Powis Parker at 1-800-321-BIND or (510) 848-2463 between the hours of 8:00 AM and 5:00 PM Pacific time, Monday through Friday.

Should you have any other questions concerning this Agreement, or if you desire to contact Powis Parker for any reason, please write: Powis Parker Inc.
775 Heinz Avenue Berkeley, CA 94710 or email: powis@powis.com.

Copyright© 1999 by Powis Parker Inc.

This guide may not be copied wholly or in part without prior written permission from Powis Parker Inc.

Regardless of the contents of this guide, Powis Parker Inc. will not bear the responsibility for negative effects incurred as a result of the operation of this equipment.

The contents of this guide are subject to change without prior notification.

Great care has been taken in the preparation of this guide. However, if you should discover an error or an omission, please bring it to our attention.

PS/2 and AT are registered trademarks of International Business Machines Corporation. MS-DOS, Microsoft, Windows 95, Windows 98, and the Windows logo are registered trademarks of Microsoft Corporation. Apple, Macintosh, iMac, iBook, QuickDraw GX, Performa, At Ease, Disk First Aid, Queue Kit, Queue Monitor, and Queue Watcher are registered trademarks of Apple Computer. Other brand or product names are trademarks or registered trademarks of their respective holders.

As an ENERGY STAR® Partner, Powis Parker Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

POWIS PARKER INC.
775 Heinz Avenue
Berkeley, CA 94710

Telephone: (800) 321-2463, or (510) 848-2463
FAX: (510) 848-2462
www.powis.com

Printed in USA

RADIO & TELEVISION INTERFERENCE

UNITED STATES. The equipment described in this guide generates and uses radio frequency energy. If it is not installed and used in accordance with the instructions in this guide, it may cause interference with radio and television reception.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

If necessary, you should consult your dealer or experienced radio/television technician for additional suggestions. You may find helpful the following booklet, prepared by the Federal Communications Commission: *How to Identify and Resolve Radio-TV Interference Problems*.

This booklet is available from the United States Government Printing Office, Washington, D.C. 20402. The booklet number is 004-000-00345-4.

Note: Changes or Modifications not expressly approved by the party responsible for compliance could void the user's right to operate this equipment.

Peripherals used in conjunction with this equipment must be connected via shielded interface cables. Use of unshielded interface cables may result in interference to radio and TV reception, and may void the user's right to operate this equipment.

Declaration of Conformity

Model Number:	P21
Trade Name:	Foifast™ Printer
Responsible party:	Powis Parker Inc.
Address:	775 Heinz Avenue Berkeley, CA 94710 USA
Telephone number:	(800) 321-2463

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT SAFETY INSTRUCTIONS

1. Read all of these instructions and save them for future reference.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from its power source before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water.
5. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage to the product.
6. Slots and openings on the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, do not block or cover these openings. The openings should never be blocked by placing the product on a bed, sofa, rug or other cushioned surfaces. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should be operated from the type of power source indicated on the marking label of the AC adaptor. If you are not sure of the type of power available, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be walked on.
9. If an extension cord is used with this product, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord ampere rating. Also, make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.
10. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
11. Except as explained elsewhere in this guide, do not attempt to service this product yourself. Opening and removing those covers that are marked "Do Not Remove" may expose you to dangerous voltage points or other risks. Refer all servicing on those compartments to service personnel.
12. Unplug this product from its power source and refer servicing to qualified service personnel under the following conditions:
 - A. When the power cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the product.
 - C. If the product has been exposed to rain or water.
 - D. If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are mentioned in the operating instructions, since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - E. If the product has been dropped or the cabinet has been damaged.
 - F. If the product exhibits a distinct change in performance, indicating a need for service.

Table of Contents

Service, Support and Supplies	7
Product Label	8
Chapter 1 Major Functions and Operations	9
Getting Your Foilfast Printer Ready	10
Getting Your Printer Ready	10
Removing the outside packing materials	10
Opening the front cover	10
Removing the carriage packing material	11
Closing the front cover	12
Locating the printer	12
Installing the Output Tray	12
Using the Dust Cover	13
How to assemble the Dust Cover	13
How to set the Dust Cover	13
Connecting Cables for Windows	14
Connecting the printer to your computer	14
Power cord connections	15
Connecting SCSI Cables for Macintosh	16
How to attach the Macintosh interface module	16
Power cord connections	18
Connecting USB Interface Cables for Macintosh	19
Connecting the printer to your computer	19
Power cord connections	20
Name and Function of Each Printer Part	21
Foilfast Printer (Front View)	21
Foilfast Printer (Rear View)	22
Foilfast Printer (Rear View with Macintosh interface module)	22
Inside the Foilfast Printer	23
Control Panel	24
Installing Foil Cartridges	25
Identifying Foil Cartridge and Cover Types	25
Installing Cartridges	26
Exchanging Cartridges	28
Loading Sheets	29
Loading Sheets	29

Installing the Printer Driver for Windows	31
Purpose of the Printer Driver	31
System Requirements	31
Installing the Printer Driver	31
Turning the Power On and Off	32
Turning on the Power	32
Turning off the Power	32
Printing Operations	33
Print Mode	33
Single Ink Printing (one foil color)	34
Requirements	34
Multiple Ink Printing (multiple foil colors)	39
Requirements	39
Installing the Printer Driver for Macintosh	45
Purpose of the Printer Driver	45
Preparing for Installation	45
System Requirements	45
Contents of the Installation Disc	46
Installing the Printer Driver	46
Using Balloon Help	47
Selecting the Powis Parker Foilfast Printer Driver	47
Turning the Power On and Off	49
Turning on the Power	49
Turning off the Power	49
Printing Operations	50
Print Mode	50
Single Ink Printing (one foil color)	51
Requirements	51
Multiple Inks Printing (multiple foil colors)	56
Requirements	56

Chapter 2 Printer Driver	63
WINDOWS: Printer Driver Setup	64
How to Open the Printer Driver Setup Dialog Box	64
Print Settings	65
MACINTOSH: Printer Driver Functions	68
Using the Chooser	68
Page Setup Dialog Box	71
Print Dialog Box	73
Using Background Printing	78
Error Display	82
Error Display	82
Appendix	83
Cleaning the Printer	85
Cleaning the Main Unit	85
Cleaning the Print Head	85
Cleaning the Platen	87
Cleaning the Feed Roller	87
Indicator Lights Summary	88
Normal Printing Mode	88
Indicator light status	88
Alarm status shown by indicator lights	88
Troubleshooting	89
What To Do if a Foil Cartridge is Stuck in the Carriage	89
What To Do When an Error Occurs	89
Ready /Insert Button Functions	90
Clearing Sheet Jams	91
Troubleshooting for Windows	92
Troubleshooting for Macintosh	99
Specifications	108
General Specifications	108
DIP Switches	109
Printable Area	109
Available Supplies	110
Supplies List	110
Premium Foil Cartridges	110
Foifast Covers	110
Options	110

Thank You !

And congratulations!

You have purchased a revolutionary product. Our Foilfast™ printer allows you to do what only professional foil stampers have been able to do, until now: print customized text and designs in brilliant foil colors, with excellent clarity, on a variety of cover materials. All in less than a minute.

Now you can design and print your own document covers right on your desktop, in real time—for just a few cents per print. Personalize individual copies of a report, add your company logo, include your client's name on your next proposal: the possibilities are endless.

Connect the Foilfast printer to your Mac or PC, create a design using your favorite software application, choose your colors and print. It's that easy. Whether you choose our popular Foilfast composition covers or our ClearCovers™, the Foilfast prints crisp, bright images and text with excellent clarity. We've even included a feature allowing you to print your design's mirror image, so you can print on the inside of your document's ClearCover, creating a striking, professional look.

The Foilfast printer is only one of our revolutionary document finishing products, and we hope you ask your Fastback® dealer about Fastback document binders and the PowisPrinter™. And we invite you to visit us on the web at www.powis.com.

If you have any comments, please contact the Fastback dealer from whom you purchased the Foilfast printer. To locate your local Fastback dealer, call us at 1-800-321-BIND.

We thank you very much for your purchase. And we hope you enjoy using your Foilfast printer.

Sincerely,

Powis Parker Inc.

Service, Support and Supplies

For US Customers

We hope you enjoy your Foilfast™ printer, and we want to make your Foilfast ownership a satisfying experience. If at any time, you would like technical assistance, service or supplies, your Fastback® dealer is available to help you. To locate your Fastback dealer, call Powis Parker customer service at 1-800-321-BIND.

Service

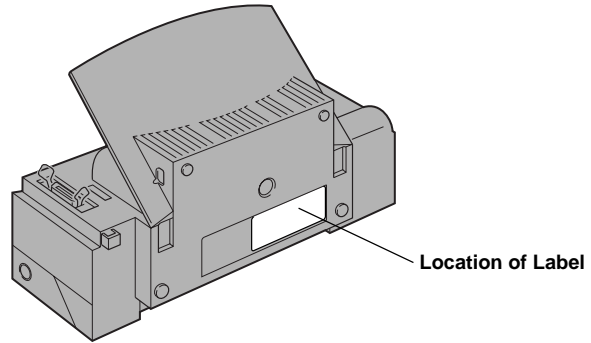
If the software disc proves defective during the applicable warranty period, you may return the defective disc to your local Fastback dealer, along with a dated proof of purchase; the dealer representative will replace it free of charge.

If the printer proves defective during the applicable warranty period, your Fastback dealer will either:

- (i) repair the printer;
- (ii) replace the printer with one that is new or like-new, provided that the replacement has equivalent or better functionality than the one it replaces; or
- (iii) if the Fastback dealer is unable to repair or replace a defective printer covered by warranty, the dealer will, within a reasonable time after notification of defect, refund the purchase price for the printer, provided that you return the defective printer along with proof of purchase.

Product Label

The label for this product can be found in the location shown below:



Chapter 1

Major Functions and Operations

Learn the Major Functions and Operations of Your Foilfast Printer

This chapter describes how to set up your printer, the name of each part of your printer and how it functions, how to insert the cartridges and cover sheets, and how to install the printer driver software. Read this chapter before you use the printer for the first time.

Getting Your Foilfast Printer Ready

Set up your Foilfast printer by performing the following steps:

- Get your printer ready.
Remove the packing materials.
- Connecting cables.
Connect the printer to your computer with a printer cable and to a suitable AC power source with the power cord.

Getting Your Printer Ready

Get your printer ready by removing the packing materials from inside and outside the printer.

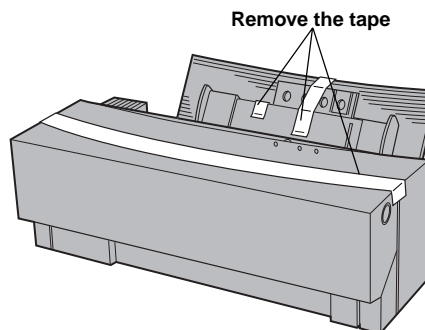


Caution

This printer is shipped with tape, spacers, and other packing materials to prevent delicate parts from being damaged while in transit. Remove these packing materials before using the printer. If the printer is used while these packing materials are still present, damage to the printer or malfunction may occur.

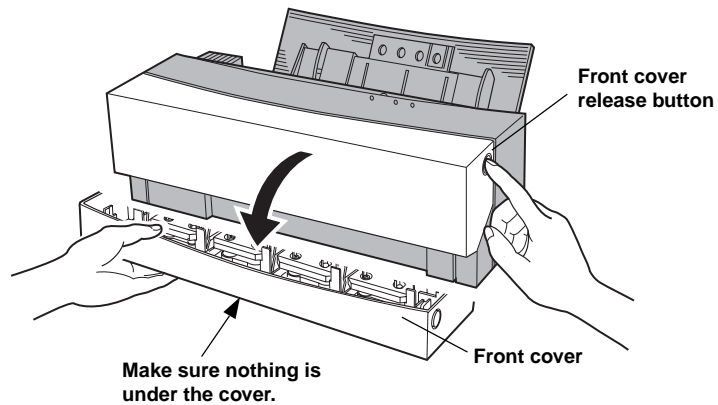
Removing the outside packing materials

The printer is shipped with packing materials to prevent damage during transit. Please remove the tape (three locations) from the printer cover before going to the next step. (See illustration for locations.)



Opening the front cover

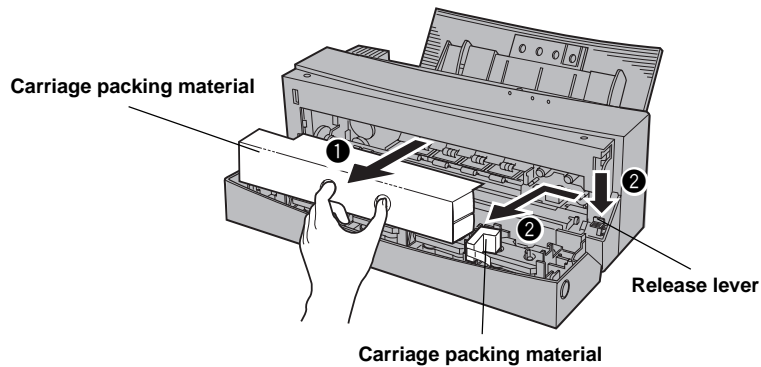
Open the front cover to remove the inside packing material. To open the front cover, push the front cover release button. Gently lower the front cover with your hand. Do not let it drop without support.



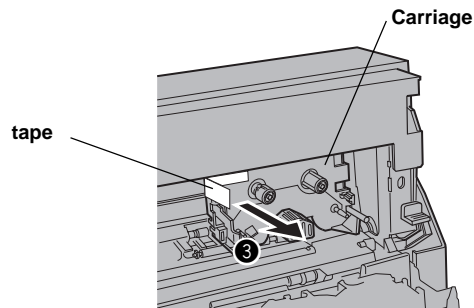
Removing the carriage packing material

There are three (3) items to be removed from the inside of the printer.

1. Remove the cardboard carriage packing material that is to the left of the carriage.
2. Press down on the blue paper release lever found to the right of the carriage. Remove the tape from the metal frame that holds the small white foam carriage packing material in place and remove the foam piece.



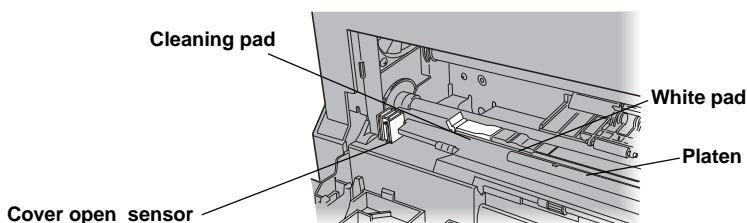
3. Remove the tape located on the left side of the carriage by gently grasping the tape and pulling slightly toward the left and forward at the same time. You need to remove the tape in one piece.





Caution

Do not remove the white pad or the cleaning pad at the left end of the platen. They are there to clean the print head. Removing them can cause the printer to malfunction. The cleaning pad can be replaced when it gets dirty. Do not touch the cover-open sensor, which is located inside the printer on the left end.



Closing the front cover

Close the front cover after removing the carriage packing material.



Caution

When closing the front cover, never slam it shut. The ink cartridges can become dislodged and damage to the printer may result.



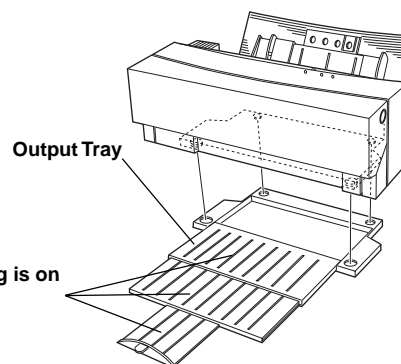
Situating the Printer

After removing the packing material from the outside and inside of the printer and reading the section "IMPORTANT SAFETY INSTRUCTIONS" (located on page 2), position the printer in an appropriate location. Ensure there is enough space to use your printer easily.

Installing the Output Tray

Place the printer on the output tray as shown in the picture.

During printing, gently pull the output tray all the way out.

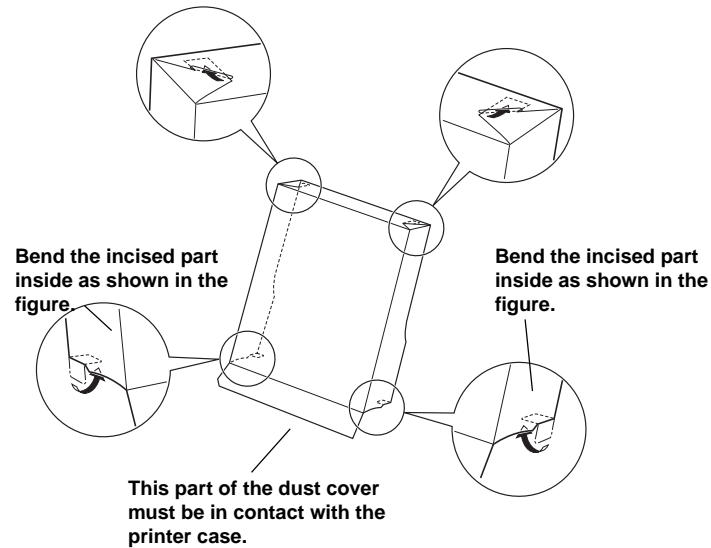


Using the Dust Cover

Use the dust cover when the printer is idle and when using Composition Covers.

How to assemble the Dust Cover

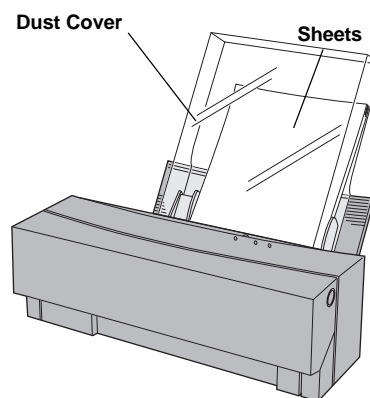
Assemble the dust cover as shown below.



How to place the Dust Cover

Use the dust cover, as dust may cause a malfunction.

Slide the dust cover into place.



Connecting Cables for Windows

When your printer is properly set up, connect the printer to your computer with a printer cable and to a suitable AC power source with the power cord.

- **Connect the printer to your computer.**
- **Connect a power cord to the printer.**

Connecting the printer to your computer

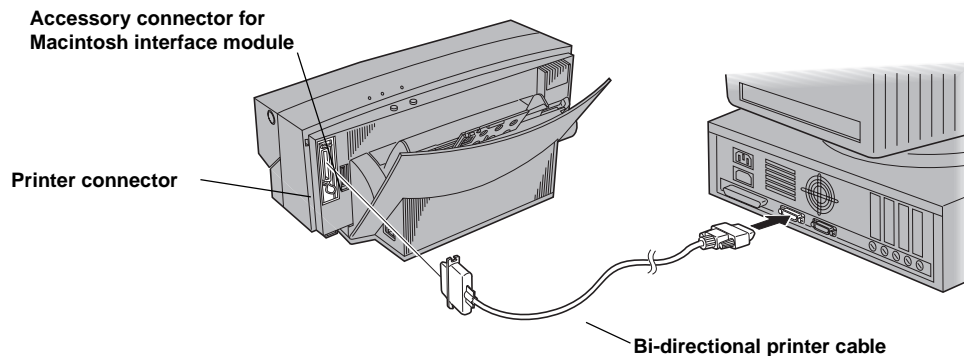
1. **Make sure that the power to your computer is completely turned off. If the computer is running, quit all running applications, shut down the system, and turn off the power.**



Caution

Both printer and computer must be unplugged before connecting or disconnecting the printer cable. Otherwise, damage or malfunction may result.

2. **Connect the printer to the computer with a standard parallel or bidirectional printer cable. Secure the printer cable to the connectors on the printer and on the computer.**

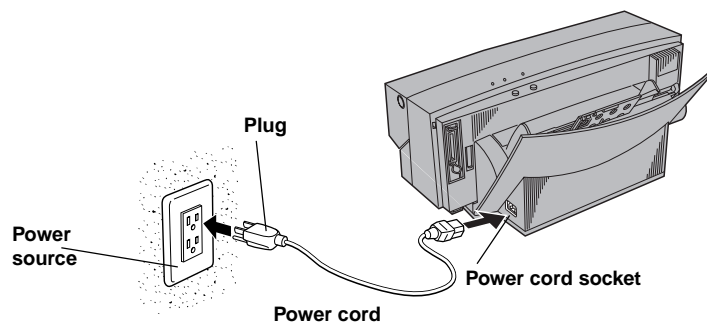


Note

When using your printer with a Macintosh computer, connect the printer to the computer using a Macintosh interface module.

Power cord connections

1. Plug the power cord into the power cord socket on the printer. Make sure the power cord is securely seated in the socket.
2. Plug the free end of the power cord into a suitable AC power source (such as a wall socket or power strip).



Caution

Power to the printer is completely cut off only when the cord is unplugged. Place the printer where you can easily unplug it from the power source. Also, pull the plug and not the cord when unplugging the printer.

Connecting SCSI Cables for Macintosh

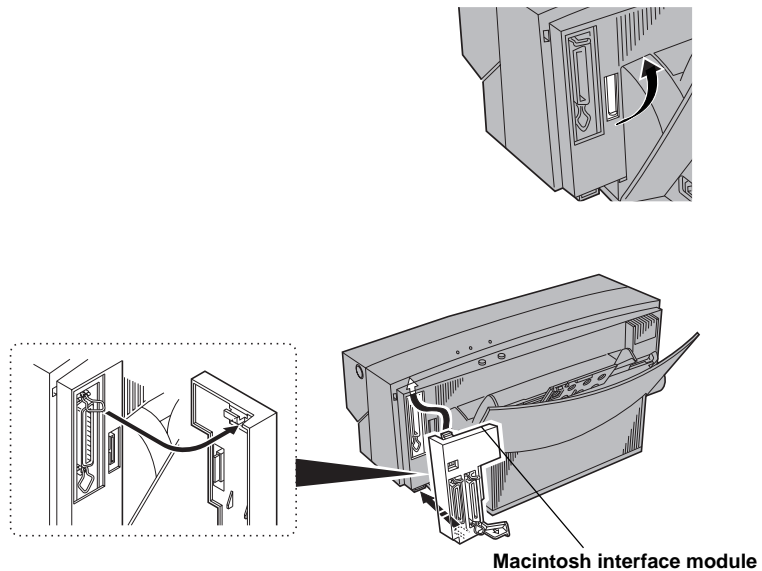
When your printer is properly set up, connect the printer to your Macintosh with a SCSI cable, and to a suitable AC power source with the power cord.

- **Connect the printer to your computer.**
- **Connect a power cord to the printer.**

How to attach the Macintosh interface module

When using your printer with a Macintosh computer, connect the printer to the computer using a Macintosh interface module as shown in the pictures below.

- 1) Turn off the power to your printer, computer, and all SCSI devices connected. Unplug the power cord from the power source and the printer.
- 2) Remove the rectangular plastic connector cover located to the right of the printer port. Grab the tab at the bottom of the connector cover, pull it up, and twist it until the cover breaks away.
- 3) Angle the Macintosh interface module so that the tab on top of the module slips under the top edge of the PC printer cable slot. The top edge of the module should rest against the frame of the printer.
- 4) Gently press the bottom of the module until it clicks into place.

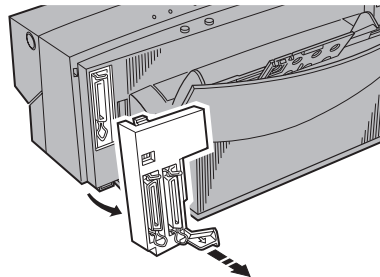


Caution

When you connect the Macintosh interface module, make sure that the printer power has been turned off. Never plug in the power cord before connecting the module. Doing so can cause the printer to malfunction.

How to remove the Macintosh interface module

- 1) Turn off the power to your printer, computer, and all SCSI devices connected. Unplug the power cord from the power source and the printer.
- 2) Remove the Macintosh interface module by gently pulling the plastic handle at the bottom of the module as shown in the picture and lifting the module away from the printer.



Connecting the printer to your computer

1. **Make sure that the power to your computer is completely turned off. If the computer is running, quit all running applications, shut down the system, and turn off the power.**

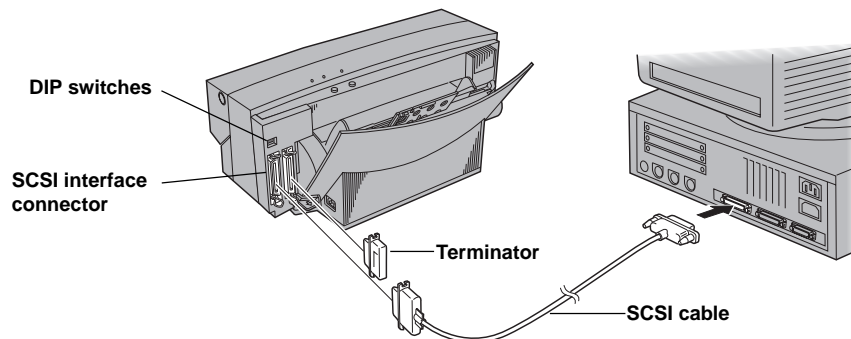


Caution

- Both printer and computer must be unplugged before connecting or disconnecting the printer cable. Otherwise, damage or malfunction may result.
- Use a high-impedance SCSI cable and an active terminator for best results.
- Using other types of cables can cause the printer to malfunction.

2. **Connect the printer to the computer with a SCSI cable. Secure the printer cable to the connectors on the printer and on the computer.**

Also, you must attach a terminator to the printer if the printer is the last peripheral on the SCSI chain.

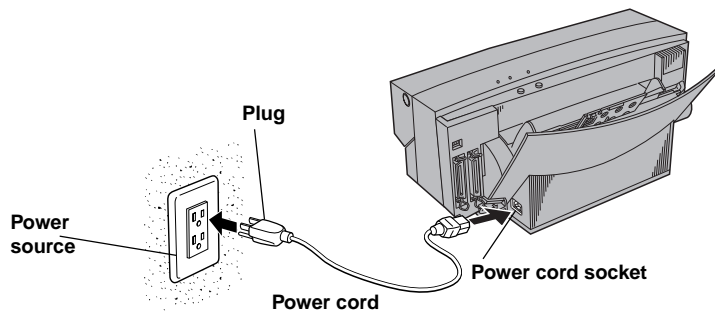


Check the SCSI device number

Make sure the device number for the printer is set correctly. Each SCSI device connected to the computer must have a unique SCSI device number. If two devices have the same device number, they will not work properly. (The printer device number is set to 6 at the factory. To change the device number, use the DIP switches next to the connector. For more details, refer to "Specifications" in the appendix.)

Power cord connections

1. Plug the power cord into the power cord socket on the printer. Make sure that the power cord is securely seated in the socket.
2. Plug the free end of the power cord into a suitable AC power source (such as a wall socket or power strip).



Caution

Power to the printer is completely cut off only when the cord is unplugged. Place the printer where you can easily unplug it from the power source. Also, pull the plug and not the cord when unplugging the printer.

Connecting USB Interface Cables for Macintosh

When your printer is properly set up, connect it to your computer with a universal serial bus (USB) interface cable, and to a suitable AC power source with the power cord. The iMac®, the iBook® and the PowerMac® G4 all support the USB interface.

- **Connect the printer to your computer.**
- **Connect a power cord to the printer.**

Connecting the printer to your computer

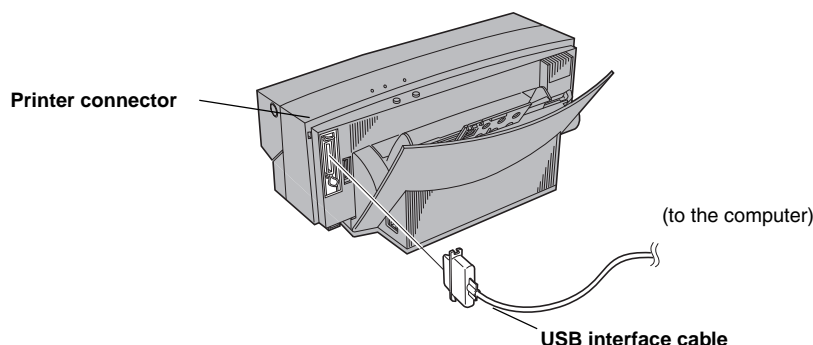
- 1. Make sure the power to your computer is completely turned off. If the computer is running, quit all applications, shut down the system, and turn off the power.**



Caution

Both printer and computer must be unplugged before connecting or disconnecting the printer cable. Otherwise, damage or malfunction may result.

- 2. Connect the printer to the computer with a USB interface cable.**

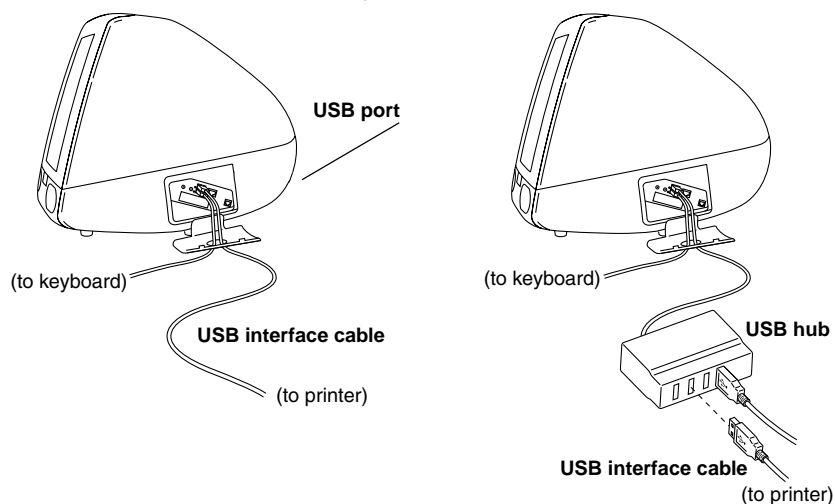


- 3. Connect the free end of the USB cable to an available USB port or USB hub.**
 - a** To connect the USB cable directly to your Macintosh, locate the USB port, hold the connector on the USB cable with the three-pronged USB icon facing up, and then plug the cable into the USB port.
 - b** To connect the USB cable to a USB hub, orient the connector on the USB cable to match the connector on the USB hub, and then plug the cable into the hub. Connect the USB hub to your Macintosh.



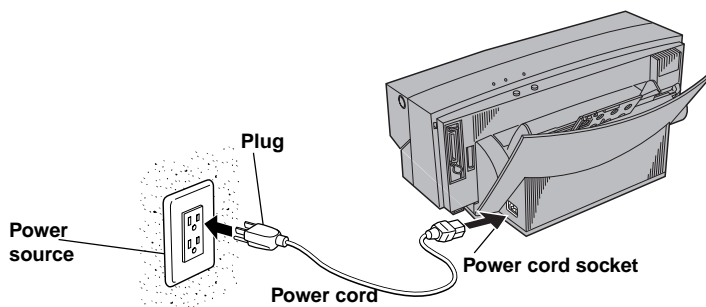
Caution

Do not plug the USB cable directly into the iMac keyboard. The USB port on the keyboard does not supply its own power, so the combined current drain of the printer and the keyboard might exceed USB specifications.



Power cord connections

1. Plug the power cord into the power cord socket on the printer. Make sure that the power cord is securely seated in the socket.
2. Plug the free end of the power cord into a suitable AC power source (such as a wall socket or power strip).



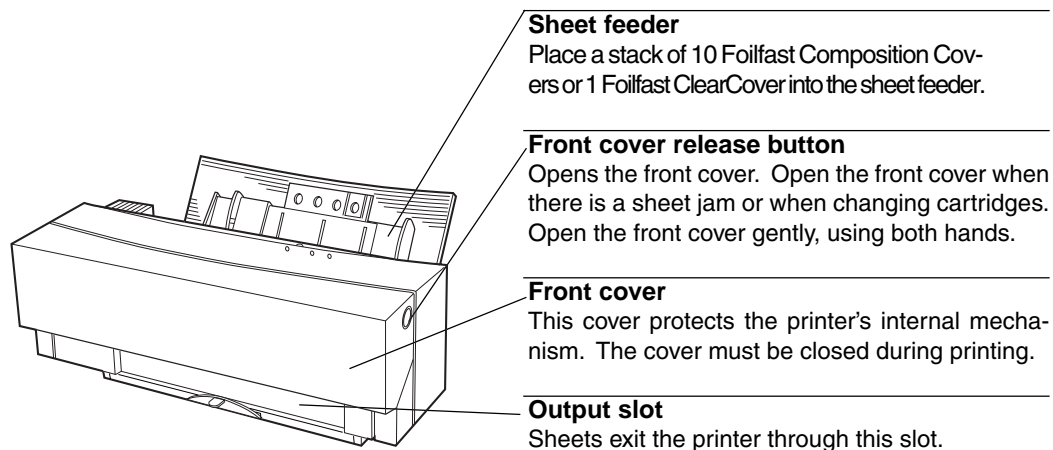
Caution

Power to the printer is completely cut off only when the cord is unplugged. Place the printer where you can easily unplug it from the power source. Also, pull the plug and not the cord when unplugging the printer.

Name and Function of Each Part of the Printer

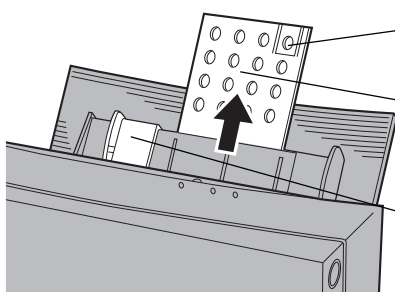
This section explains the name and function of each printer part.

Foilfast Printer (front view)



Caution

- Never reach into the printer while it is operating. Injury may result.
- Do not open the front cover while the printer is running.
- When the front cover is opened for any reason, remove the cartridge and take up any slack in the ribbon, then return the cartridge.



Caution

- Never reach into the sheet feeder. By doing so, you might get injured, or the printer might malfunction.

Foilfast Printer (rear view)

Accessory connector

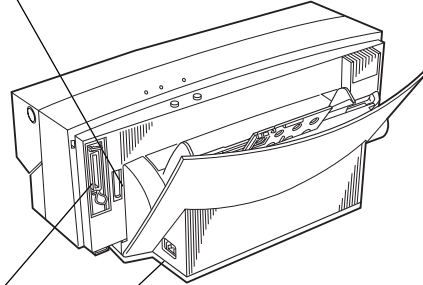
This connector is for the Macintosh interface module. Make sure you remove the rectangular plastic connector cover before connecting the interface module.

Parallel interface connector

The printer cable plugs into the parallel interface connector.

Power cord socket

The power cord plugs into this socket.



Foilfast Printer (rear view with Macintosh interface module)

DIP switches

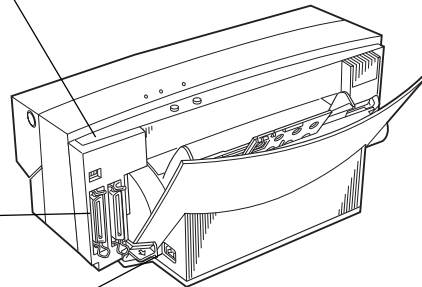
The DIP switches set the SCSI device number for the printer.

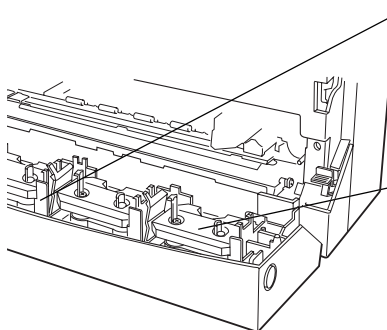
SCSI connector

The SCSI connectors connect the computer to SCSI devices.

Power cord socket

The power cord plugs into the power cord socket.

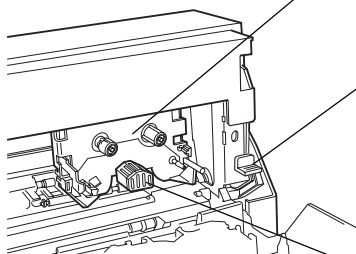


Inside the Printer**Marking sticker**

This allows you to confirm that the carriage is in the standard position. Try not to smear the face of the sticker. If it gets dirty, gently clean it with a dry cotton swab. As you do so, be careful not to peel it off.

Cartridge holder plate

Three out of four of the holder plates can hold two cartridges each. The fourth plate can hold only one. You can load up to seven cartridges at a time.

**Carriage**

The carriage automatically picks up the specific cartridge needed for printing and moves it to the printing location. The carriage also contains the print head.

Release lever

This lever, located to the right of the carriage and platen, is used to clear sheet jams. Press the release lever down to remove the jammed sheet. When you close the front cover, the lever will automatically go back to its original position.

Print head

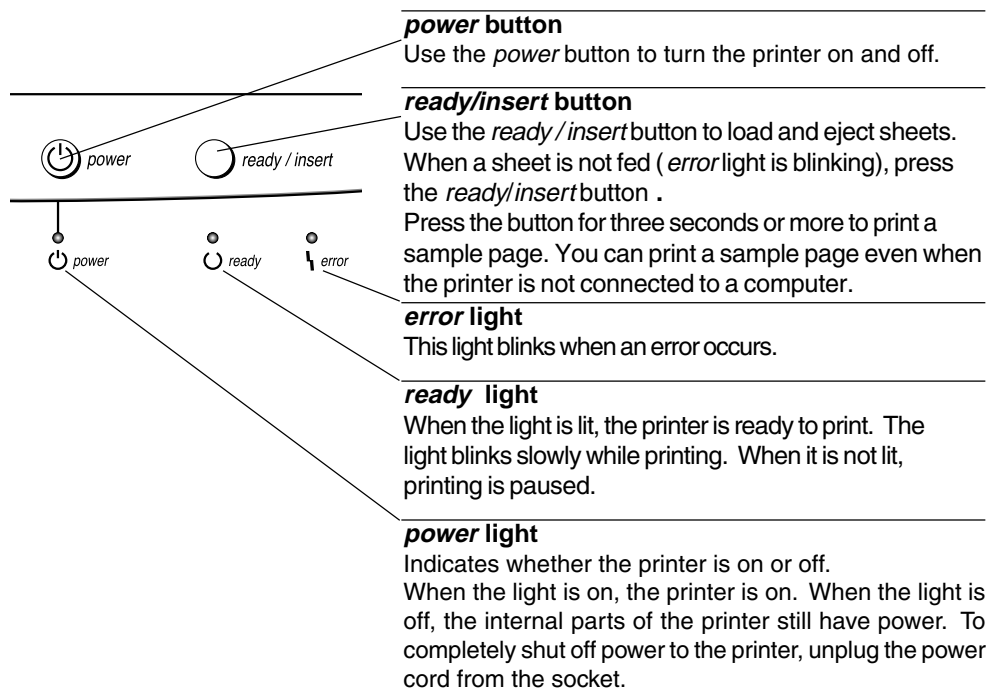
The print head prints the characters. Do not touch it.

**Caution**

Do not touch the print head or the carriage. Doing so can cause damage to the printer. Also, never load a cartridge directly into the carriage. Malfunction or damage to the printer may result.

Control Panel

The top of the printer has two buttons and three LED indicator lights. By pushing one of these buttons and looking at the lights, you can perform various printer functions, such as ejecting a sheet.

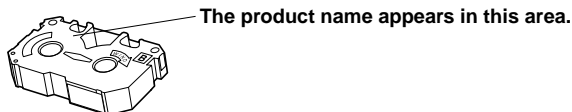


Installing Cartridges

This section describes how to identify cartridge types and how to install and exchange cartridges.

Identifying Foil Cartridge and Cover Types

The cartridge type is indicated on the surface of each cartridge.



Premium Foil Cartridges

Premium Gold Foil cartridge
 Premium Silver Foil cartridge
 Premium Red Foil cartridge
 Premium Blue Foil cartridge
 Premium Green Foil cartridge
 Premium Black cartridge
 Premium White cartridge
 Primer cartridge ("Undercoat")

Cover Types

Foilfast Composition Cover
 Foilfast Coated Paper Cover
 Foilfast ClearCover



Caution

Remove each printed ClearCover from the output tray before the next printed ClearCover is ejected from the printer. If the printed ClearCovers are left in a pile for a long time, they may stick together.

Installing Cartridges

Install cartridges by following the steps below.



Note

The carriage can select and pick up the necessary color cartridge from any holder. You can put up to 7 cartridges of the same color in the holders to reduce the need to change cartridges, or you may load different color cartridges.



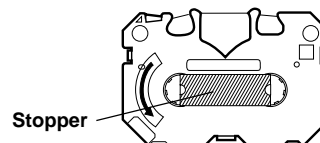
Caution

The cartridges may be put in any holder but **DO NOT** put cartridges directly into the carriage. Doing so may result in damage the printer.

You must leave at least one cartridge holder empty for the printer to operate properly. Do not install more than 7 cartridges.

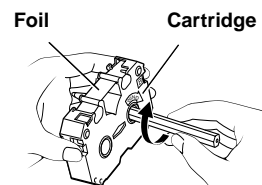
1. Remove the stopper from the cartridge.

First, remove the stopper from the cartridge. The stopper prevents slack in the foil during shipment or storage.



2. Take up any slack in the foil.

Insert a pencil into the side marked "B". Turn the pencil slowly to take up any slack in the foil.



3. Open the front cover of the printer.

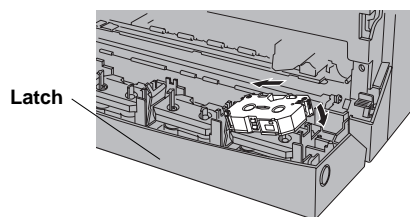
Push the front cover release button to release the internal lock. Gently lower the front cover with your hand.

4. Insert the cartridges.

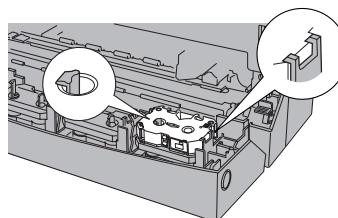
- Hold the cartridge so that the side with the letter “B” faces upward, and the “B” is on the upper right of the cartridge. Hold the center of the cartridge with your thumb and index finger.



- Insert the left end of the cartridge, while pushing the left side latch of the cartridge holder slightly to the left with the cartridge.

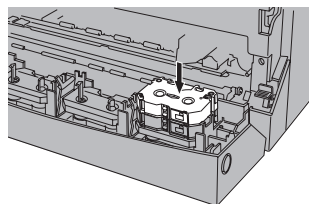


- Push down the right side of the cartridge.

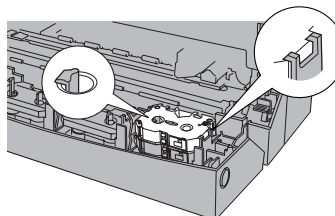


Make sure that the cartridge is securely locked into the holder, and that there is no slack in the foil.

- Put the second cartridge on top of the cartridge already installed. Gently push down the center of the cartridge.

**Caution**

Place the side marked “B” face up. If the cartridge is installed upside down, the printer will not know it has been installed.



Exchanging Cartridges

You can change or replace empty cartridges by following the steps below.



Note

When a cartridge has been used up, black and silver stripes will be visible on the foil.



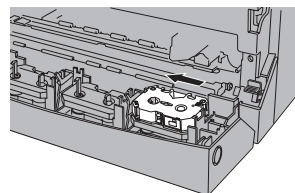
black and silver stripes

1. Open the front cover of the printer.

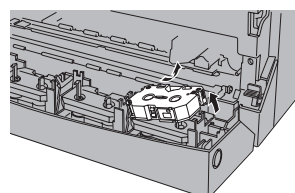
Open the front cover by pushing the front cover release button.

2. Remove the cartridge

- Removing a cartridge is similar to installing it. Hold the center of the cartridge with your thumb and index finger. Push the left latch on the cartridge holder slightly to the left with the cartridge.



- Lift up the right side of the cartridge, and then remove the entire cartridge.



Caution

Take up any slack in the foil before installing cartridges.

3. Install a new cartridge on the cartridge holder plate.

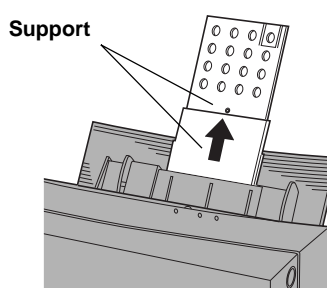
Insert a cartridge by following the steps described in the previous section titled "Installing Cartridges."

Loading Sheets

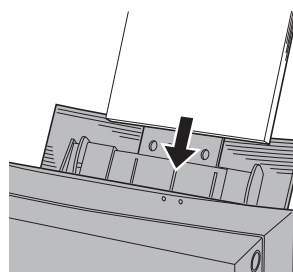
Loading Sheets

You may load up to 10 composition covers at a time, and successive sheets will automatically feed. When printing on ClearCovers, you must load each sheet into the feeder, one at a time. If you load multiple ClearCovers, they will stick together and cause a jam in the feeding mechanism.

1. Pull up the support.



2. Place the sheets in the feeder.



Note

- Using a creased or curled sheet can cause the sheet to misfeed.
- Fan the stack of sheets once before placing it in the feeder. The printer may feed two sheets together if the sheets are stuck together.
- Use only one type of sheet at a time.
- Place a stack of not more than 10 composition covers or 1 ClearCover into the feeder.

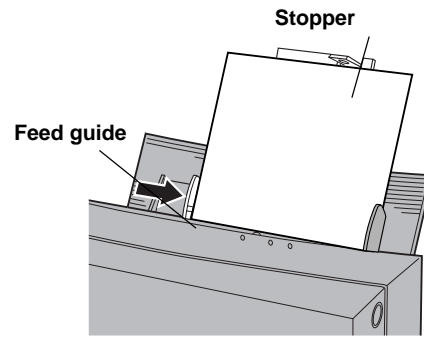


Caution

Composition covers should be between 16 –18.5 points thick (.0016 – .00185 inches). Clear covers should be between 6.5 –7.5 points thick (.0065 – .0075 inches). Covers that fall outside the bounds of these thickness ranges may work in the Foilfast printer, but Powis Parker does not recommend using them. Covers that fall substantially beyond these thickness ranges may damage the printer's feeding mechanism and may void your warranty.

3. Adjust the feed guide to the proper size.

Leave about 0.02" between the edge of the sheet(s) and the feed guide. The stopper will prevent the sheets from rising.



Note

- If the space is too wide, sheets may feed diagonally.
- If the space is too narrow, sheets may not feed.

Installing the Printer Driver for Windows

Before you can use your printer, you need to install the printer driver software so that your computer can work with the printer.

This section describes how to install the printer driver.

Purpose of the Printer Driver

The printer driver software helps to control the printing process, so the printer driver you select must match the printer you're using. To take full advantage of the many features of the Foilfast printer, always create your documents after you have selected the Foilfast printer driver. If you have a different printer driver selected when you print your document, only the print settings that match the functions of your Foilfast printer will be valid.

System Requirements

The system requirements for the printer driver software are as follows:

Computer: IBM PC-AT or compatible

OS: Microsoft Windows 95/98 ®

Total RAM: 16 MB or more (32 MB or more is recommended)

Disk space required during printing (approximate):

Single color, 10 MB

Multiple colors, 40 MB



Note

The working disk space needed during printing is automatically erased after printing is completed.

Installing the Printer Driver

Insert the disc into the CD-ROM drive. The contents of the disc will automatically display. Double-click the "Setup" icon, to begin installation, or read the "Readme" file for detailed instructions. After connecting the printer cable to your PC, restart your computer.

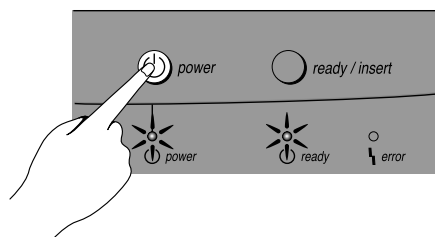
Turning the Power On or Off

Turn your printer and computer on or off by following the steps described below.

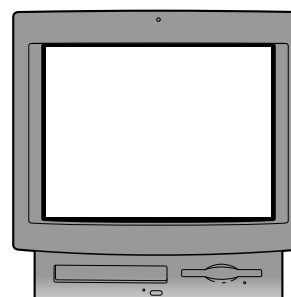
Turning on the Power

Turn on the power by performing the following steps.

1. Push the **power** button on the printer to turn it on.



2. Turn on your computer.



Turning off the Power

When you finished printing, turn off your printing devices by performing the following steps.

1. Quit Windows, and then turn off your computer.
2. Push the **power** button on the printer to turn it off.

Printing Operations

Print Mode

Foilfast premium foil cartridges come in a range of colors. You may load several colors into the Foilfast printer at the same time, or you may load just a single color.

- Single Ink (one foil color)

This print mode allows you to print a document in monochrome using one cartridge. All selectable cartridges are shown with radio buttons in the Select Cartridge(s) area in Print/properties. Click the radio button next to the color you wish to use. The default selection is Gold Foil.

- Multiple Inks (2 or more colors)

This print mode allows you to print a document in multiple colors. Select Multiple Inks in the Select Cartridge(s) area in Print/properties. All selectable cartridges are shown with checkboxes. You must select at least 1 and no more than 7 colors. The default selection is Gold Foil.

Single Foil Printing

Single Ink printing uses just one color. This method is used when an entire image or document is going to be printed in a single color.

This method of printing can be used even when the application you are using does not allow designation of color compositions.

Requirements

For single color printing you will need the following cartridges and cover types.

- **Premium Foil Cartridges**

Premium Gold Foil cartridge
Premium Silver Foil cartridge
Premium Red Foil cartridge
Premium Blue Foil cartridge
Premium Green Foil cartridge
Premium Black cartridge
Premium White cartridge
Primer cartridge ("Undercoat")

The primer cartridge is required when printing on ClearCovers, and it may improve the print quality on other cover types. The primer cartridge will be used for printing when the Undercoat checkbox is checked.

- **Foilfast Compatible Covers**

Foilfast™ Composition Cover
Foilfast™ Coated Paper Cover
Foilfast™ ClearCover™

Step 1 ► Create a Document for Single Ink Printing

Use any application to create the image or document you want to print, and prepare it just as you would for normal printing.



Note

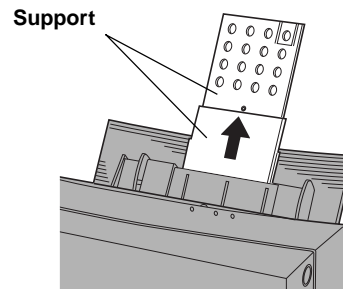
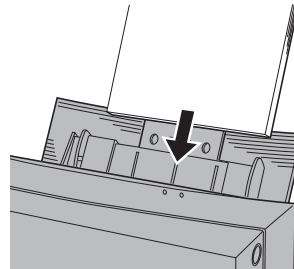
It is not necessary to select a color in the application that matches the color of the cartridge in the printer. Leaving the characters and images in black is fine.

Step 2 ► Install the Foil Cartridge

Install the cartridge you want to print with in the cartridge holder.

Step 3 ► Load Cover Sheets

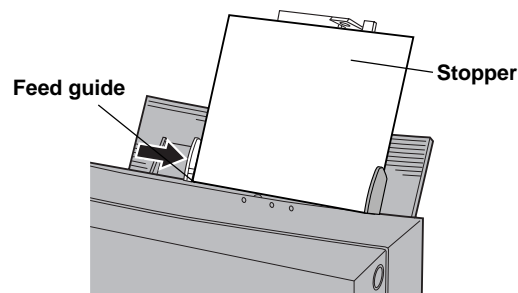
Load up to 10 composition covers; ClearCovers must be fed one at a time.

1. Pull up the support.**2. Place the sheet(s) in the sheet feeder.****Note**

- Using creased or curled sheets can cause the sheet to misfeed.
- Fan the stack once before placing it in the feeder. The printer may feed two sheets together if the sheets are slightly stuck together.
- Use only one type of sheet at a time.
- Place a stack of not more than 10 composition covers or 1 sheet ClearCover in the feeder.

3. Adjust the feed guide to the proper size.

Leave about 0.02" between the feed guide and the sheet(s).
The stopper will prevent the sheets from rising.



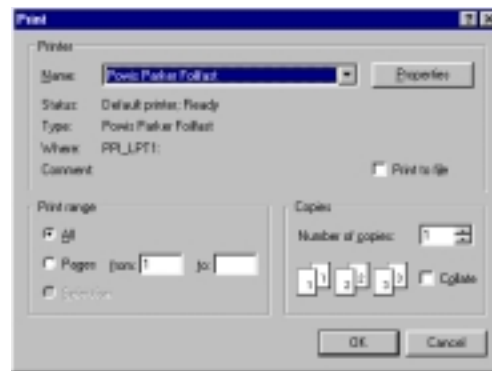


Note

- If the space is too wide, a sheet may feed diagonally.
- If the space is too narrow, a sheet may not feed.

Step 4 ► Set Up the Printer Driver for Printing

1. Select Print from the File menu to open the Print dialog box, then click Properties.



2. Select your cover type from the Media Type menu.



3. Select Single Ink from the Print Mode menu (for single foil color printing).



4. Click the appropriate radio button to select the cartridge(s) you wish to use.



5. Set the size, orientation, and number of copies as desired.



6. When you complete the setup, click OK to close the dialog box.

Step 5 ► **Print**

Click OK in the Print dialog box to start printing.

Multiple Foil Printing

Use the steps outlined below for printing with two or more colors. Designate each foil color with a corresponding color in your application. You can use this method with most applications that support color.

Requirements

For multiple foil color printing you will need the following.

- **Premium Foil Cartridges**

For foil printing at least one cartridge is required.

Premium Gold Foil cartridge

Premium Silver Foil cartridge

Premium Red Foil cartridge

Premium Blue Foil cartridge

Premium Green Foil cartridge

Premium Black cartridge

Premium White cartridge

Primer cartridge ("Undercoat")

The primer cartridge is required when printing on ClearCovers, and it may improve the print quality on other cover types. The primer cartridge will be used for printing when the Undercoat checkbox is checked.

- **Foilfast Compatible Covers**

Foilfast™ Composition Cover

Foilfast™ Coated Paper Cover

Foilfast™ ClearCover™

Step 1 ► Create a Document for Multiple Ink Printing

1. **Use any application to create the image or document you want to print, and prepare it just as you would for normal printing. The image may contain text as well as graphics.**
2. **Select the application colors that correspond to each Foilfast color you wish to use.**

For example, set the parts of the image that you want to print in gold foil to yellow. If you are also using black, set the parts of the image that you want to print in black to black.



Note

Many applications have color palettes that allow easy selection of foil colors.

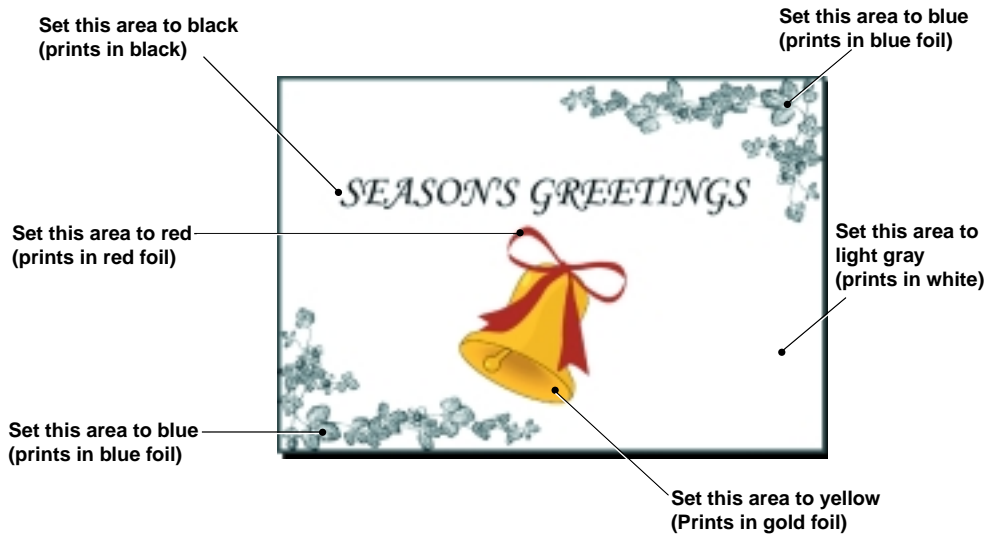
The colors associated with foil colors are shown in the following table.

■ Colors used to indicate foil colors

In multiple color printing, indicate foil colors by selecting colors in the application that resemble the foil colors.

As much as possible, try to select colors that resemble the foil colors to be printed. In applications that do not have many color choices, such as word processors, closely related colors can be used. In this case, however, check the color output by executing a test print to make sure the correct foil colors are printed.

Foil color	Application color
Gold Foil	Yellow
Silver Foil	Dark Gray
Red Foil	Red
Blue Foil	Blue
Green Foil	Green
White	Light gray (a gray close to white)
Black	Normal black



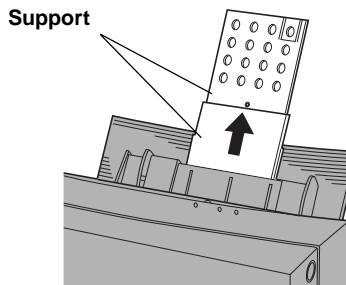
Step 2 ► Install the Foil Cartridge

Install the cartridge you want to print with in the cartridge holder.

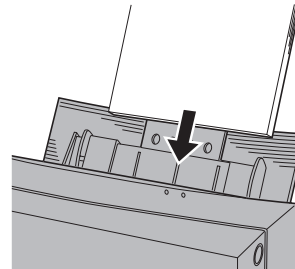
Step 3 ► Load Sheets

Load up to 10 composition covers; ClearCovers must be fed one at a time.

1. Pull up the support.



2. Place the sheet(s) in the feeder.



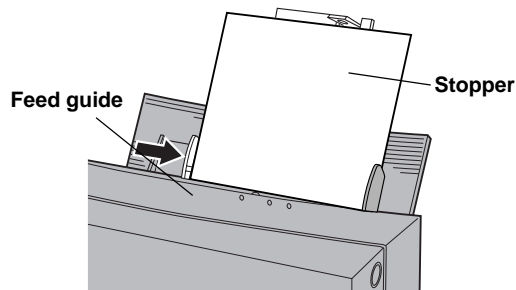
Note

- Using creased or curled sheets can cause a sheet to misfeed.
- Fan the stack once before placing it in the feeder. The printer may feed two sheets together if the sheets are slightly stuck together.
- Use only one type of sheet at a time.
- Place a stack of not more than 10 composition covers or 1 ClearCover in the sheet feeder.

3. Adjust the feed guide to the proper size.

Leave about 0.02" between the feed guide and the sheet(s).

The paper stopper will prevent the sheets from rising.



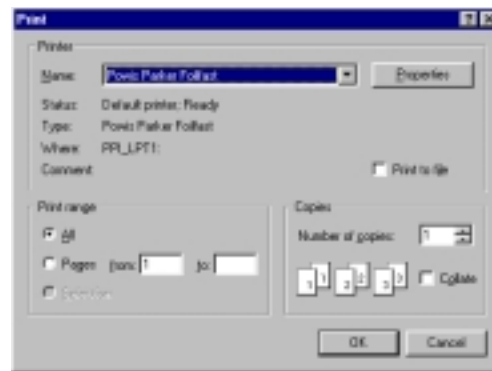


Note

- If the space is too wide, a sheet may feed diagonally.
- If the space is too narrow, a sheet may not feed.

Step 4 ► Set Up the Printer Driver for Printing

1. Select Print from the File menu to open the Print dialog box, then click Properties.



2. Select your cover type from the Media Type menu.



3. Select Multiple Ink from the Print Mode menu.



4. Check the check boxes under Select Cartridge(s) to indicate your desired colors.



Note

Even though you have set the color of an area to your desired color, the area will not be printed if the corresponding color foil cartridge has not been checked.

5. Set the size, orientation, and number of copies as desired.



6. When you complete the setup, click OK to close the dialog box.

Step 5 ► **Print**

Click OK in the Print dialog box to start printing.

Installing the Printer Driver for Macintosh

Before you can use your printer, you need to install the printer driver software so that your computer can work with the printer.

This section describes how to install the printer driver. These directions assume that you are familiar with normal Macintosh operations, such as using the mouse and menus. Please refer to the user's guide that came with your Macintosh if you need information about general Macintosh operations.

Purpose of the Printer Driver

The printer driver is software that enables your computer to control the printer. When printing from any application, you must select a printer driver that matches the printer being used in order to ensure accurate printing results. To take advantage of the many features of the printer, select the Foilfast printer driver before creating your documents.

Preparing for Installation

Before installing the printer driver, check your hard disk with the Disk First Aid utility to make sure that it has no serious problems.

Refer to the Macintosh manual for information about using Disk First Aid.

System Requirements

The system requirements for the printer driver are as follows:

- Computer:** Apple Macintosh computer or compatible
- Operating system:** System 7.0.1 or later
- Total RAM:** 16 MB or more (32 MB or more is recommended)
- Disk space required during printing (approximate):**
 - Single color, 10 MB
 - Multiple colors, 40 MB



Note

The working disk space needed during printing is automatically erased after printing is completed.

Contents of the Installation Disc

The files shown below are contained on the Installation Disc (CD-ROM).

The installer installs the following files:

- Foilfast printer driver
- USB Class Driver (USB equipped system only)
- Queue Monitor (background printing application, before System 7.6.1 only)
- Queue Watcher (background printing extension, before System 7.6.1 only)

Installing the Printer Driver

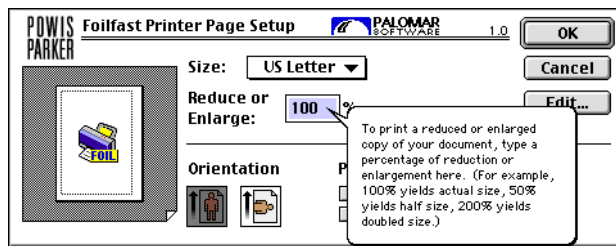
Double click the “PPI Foilfast Installer” to begin installation, or read the “Readme” file for detailed instructions.

Using Balloon Help

With System 7.0.1 or later, Balloon Help can be used to explain the functions of the printer driver buttons, check boxes, and radio buttons. By displaying Balloon Help, you can get a simple explanation of each function.

Follow the steps below to use Balloon Help.

1. Select **Show Balloons** from the **Help** menu (found on the menu bar, at the upper right corner of the screen).
2. Move the cursor over the button or box to be explained.



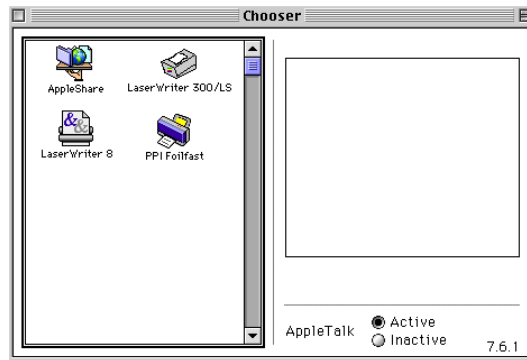
To hide Balloon Help, follow the steps below.

1. Select **Hide Balloons** from the **Help** menu.

Selecting the PPI Foilfast™ Printer Driver

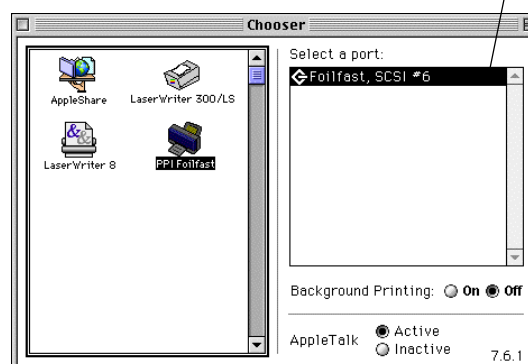
If you want to print using the Powis Parker Foilfast Printer, you should select the Powis Parker Foilfast Printer printer driver in the Chooser before you create documents in your application. If you want to print documents created when the Powis Parker Foilfast printer driver was not selected, first select the Powis Parker Foilfast Printer in the Chooser, then choose Page Setup from your application's File menu, and finally change the application's page format and other settings if needed. Follow the steps below to select the Powis Parker Foilfast Printer printer driver.

1. From the **Apple** menu, select the **Chooser**.



2. Click on the PPI Foilfast Printer printer driver icon.

The box on the right displays the SCSI device or USB number of the Powis Parker Foilfast Printer.



Make sure that the line indicated by (A) is highlighted. If it is not, your printer is not being recognized properly.

3. If you have several Foilfast printers connected to your Macintosh, click on the SCSI device or USB number of the printer you wish to use.

The factory device setting is #6. To change SCSI device numbers, refer to “Specifications” in the Appendix.



Note

If you have more than one SCSI bus in your Macintosh, “SCSI #6 BUS #1” or similar will be displayed.

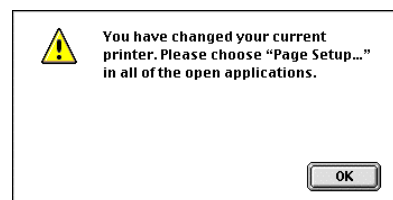


Note

Immediately following installation, background printing is turned off. Click on the On button to enable background printing.

4. Click on the close box to close the Chooser.

When the selected printer driver is changed from some other printer driver to the Powis Parker Foilfast printer driver, a dialog box will appear to inform you that a different printer has been selected.



5. Click on the OK button to close the dialog box.

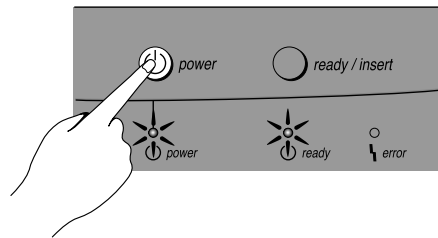
Turning the Power On or Off

Turn your printer and computer on or off by following the steps described below.

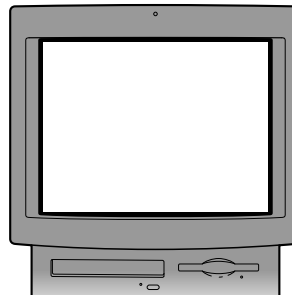
Turning on the Power

Turn on the power by performing the following steps.

1. Push the **power** button on the printer to turn it on.



2. Turn on your computer.



Turning off the Power

When you have finished printing, turn off your printing devices by performing the following steps.

1. Shut down your computer.
2. Push the **power** button on the printer to turn it off.
3. If you are disconnecting the printer from your computer, unplug both printer and computer.

Printing Operations

Print Mode

Foilfast premium foil cartridges come in a range of colors. You may load several colors into the Foilfast printer at the same time, or you may load just a single color.

- **Single Ink (one foil color)**
This print mode allows you to print a document in monochrome using one cartridge. All selectable cartridges are shown with radio buttons in the Select Cartridge(s) area in Print/properties. Click the radio button next to the color you wish to use. The default selection is Gold Foil.
- **Multiple Inks (2 or more colors)**
This print mode allows you to print a document in multiple colors. Select Multiple Inks in the Select Cartridge(s) area in Print/properties. All selectable cartridges are shown with checkboxes. You must select at least 1 and no more than 7 colors. The default selection is Gold Foil.

Single Ink Printing

Single Ink printing uses just one color. This method is used when an entire image or document is going to be printed in a single color.

This method of printing can be used even when the application you are using does not allow designation of color compositions.

Requirements

For single color printing you will need the following cartridges and cover types.

- **Premium Foil Cartridges**

Premium Gold Foil cartridge
 Premium Silver Foil cartridge
 Premium Red Foil cartridge
 Premium Blue Foil cartridge
 Premium Green Foil cartridge
 Premium Black cartridge
 Premium White cartridge
 Primer cartridge (“Undercoat”)

The primer cartridge is required when printing on ClearCovers, and it may improve the print quality on other cover types. The primer cartridge will be used for printing when the Undercoat checkbox is checked.

- **Foilfast Compatible Covers**

Foilfast Composition Cover
 Foilfast Coated Paper Cover
 Foilfast ClearCover

Step 1 ► Create a Document for Foil Color Printing

Use any application to create the image or document you want to print, and prepare it just as you would for normal printing.



Note

It is not necessary to select a color in the application that matches the color of the cartridge in the printer. Leaving the characters and images in black is fine.

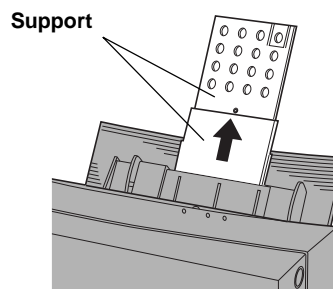
Step 2 ► Install the Foil Cartridge

Install the cartridge you want to print with in the cartridge holder.

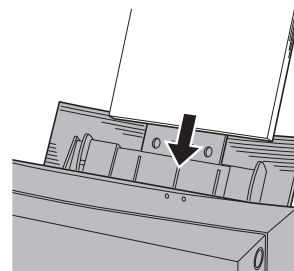
Step 3 ► Load Cover Sheets

Load up to 10 composition covers; ClearCovers must be fed one at a time.

1. Pull up the support.



2. Place the sheet(s) in the feeder.

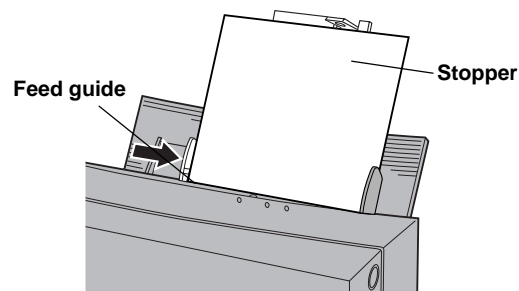


Note

- Using creased or curled sheets can cause the sheet to misfeed.
- Fan the stack once before placing it in the sheet feeder. The printer may feed two sheets together if the sheets are slightly stuck together.
- Use only one type of sheet at a time.
- Place a stack of not more than 10 composition covers or 1 ClearCover into the feeder.

3. Adjust the feed guide to the proper size.

Leave about 0.02" between the feed guide and the sheet(s). The stopper will prevent the sheets from rising.



**Note**

- If the space is too wide, a sheet may feed diagonally.
- If the space is too narrow, a sheet may not feed.

Step 4 ► Set Up the Printer Driver for Printing

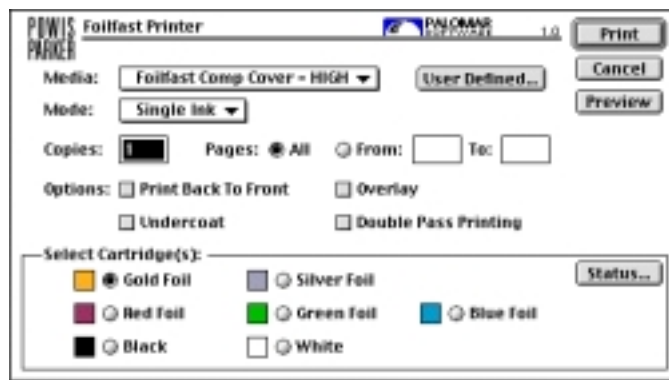
1. Select **Page Setup** from the **File** menu to open the **Page Setup** dialog box.
2. Set any necessary settings, such as **Size** or **Orientation**, depending on the document to be printed.



3. Once the settings have been selected, click **OK**.

Step 5 ► Print

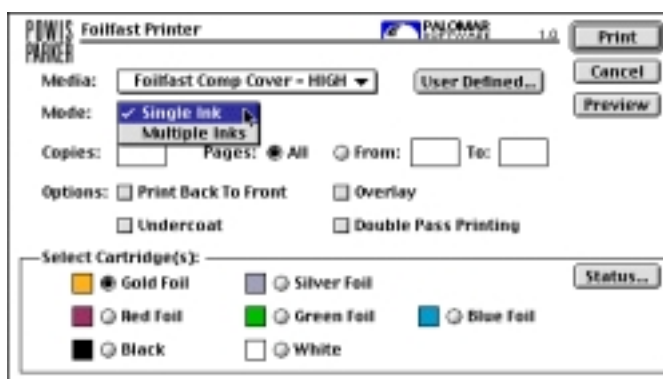
1. Select **Print** from the **File** menu.



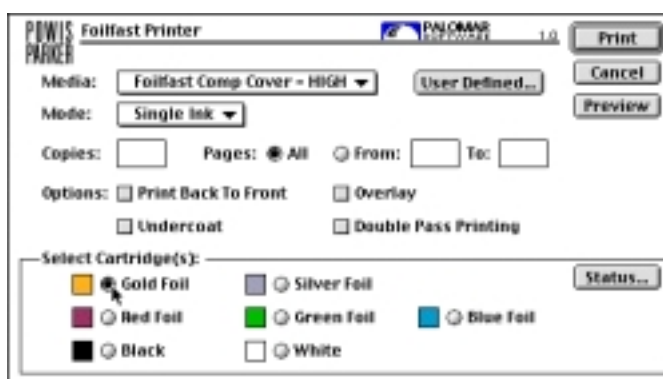
2. Select your cover type from the Media menu.



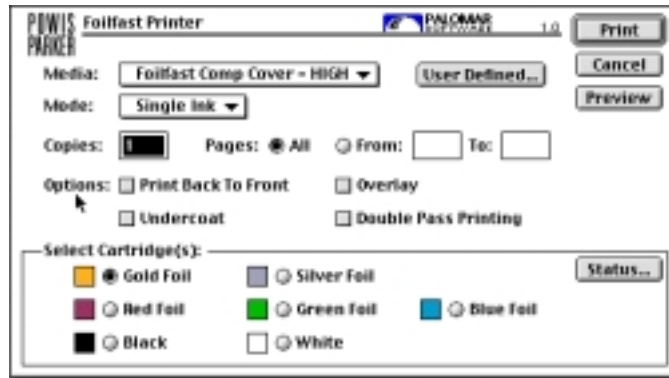
3. Select Single Ink from the Mode menu.



4. In the Select Cartridge(s) area, click the radio button(s) next to the colors you wish to use.



-
5. Select Options and number of copies as desired.



6. When you complete the setup, click Print to close the dialog box.

Step 5 ► **Print**

-
6. Click Print in the Print dialog box.

Multiple Foil Printing

Use the steps outlined below for using two or more foil cartridges. Designate each foil color with a corresponding color in your application. You can use this method with most applications that support color.

Requirements

For multiple foil color printing you will need the following.

- **Premium Foil Cartridges**

Premium Gold Foil cartridge
Premium Silver Foil cartridge
Premium Red Foil cartridge
Premium Blue Foil cartridge
Premium Green Foil cartridge
Premium Black cartridge
Premium White cartridge
Primer cartridge ("Undercoat")

The primer cartridge is required when printing on ClearCovers, and it may improve the print quality on other cover types. The primer cartridge will be used for printing when the Undercoat checkbox is checked.

- **Foilfast Compatible Covers**

Foilfast Composition Cover
Foilfast Coated Paper Cover
Foilfast ClearCover

Step 1 ► Create a Document for Multiple Foil Printing

1. **Use any application to create the image or document you want to print, and prepare it just as you would for normal printing. The image may contain text as well as graphics.**
2. **Select the application colors that correspond to each Foilfast color you wish to use.**

For example, set the parts of the image that you want to print in gold foil to yellow. If you are also using black, set the parts of the image that you want to print in black to black.



Note

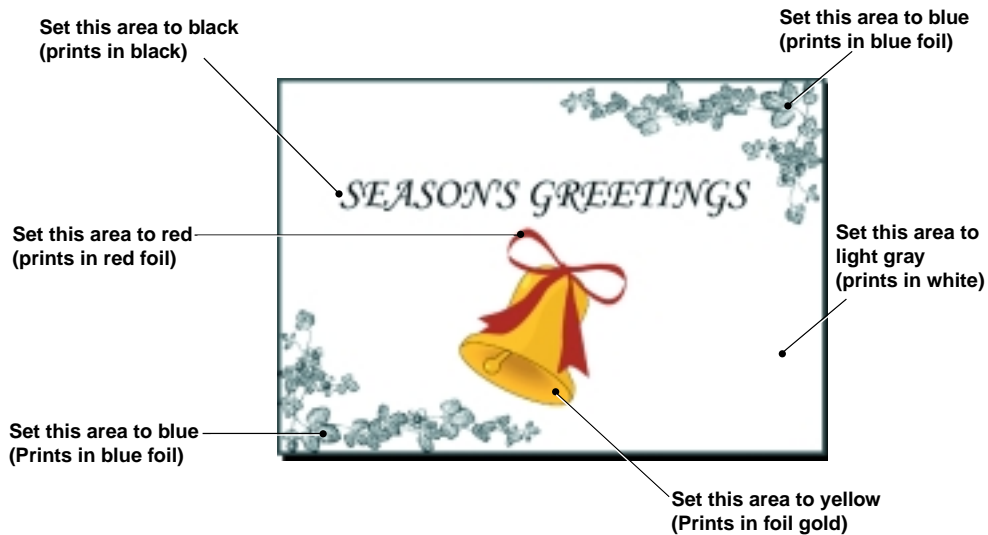
Many applications have color palettes that allow easy selection of foil colors.

The application colors associated with foil colors are shown in the following table.

■ **Colors used to indicate foil colors**

In multiple foil color printing, indicate colors by selecting colors in the application that resemble the foil colors. As much as possible, try to select colors that resemble the foil colors to be printed.

Foil color	Application color
Gold Foil	Yellow
Silver Foil	Dark Gray
Red Foil	Red
Blue Foil	Blue
Green Foil	Green
White	Light gray (a gray close to white)
Black	Normal black



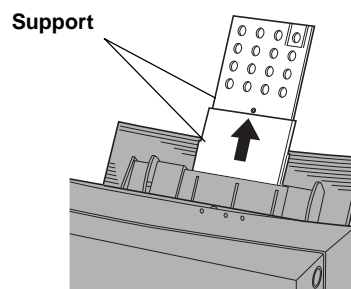
Step 2 ► Install the Foil Cartridges

Install the cartridge you want to print with in cartridge holder.

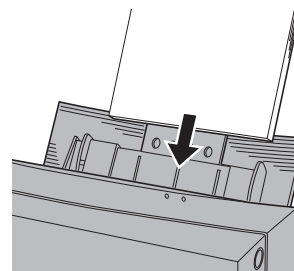
Step 3 ► Load Sheets

Load up to 10 composition covers; ClearCovers must be fed one at a time.

1. Pull up the support.



2. Place the sheet(s) in the sheet feeder.

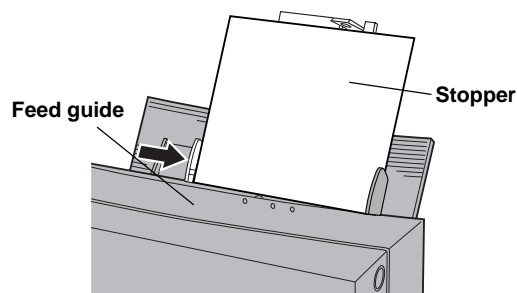


Note

- Using creased or curled sheets can cause a sheet to misfeed.
- Fan the stack once before placing it in the feeder. The printer may feed two sheets together if the sheets are slightly stuck together.
- Use only one type of sheet at a time.
- Place a stack of not more than 10 sheets composition covers or 1 ClearCover into the sheet feeder.

3. Adjust the feed guide to the proper size.

Leave about 0.02" between the feed guide and the sheet(s). The stopper will prevent the sheets from rising.



**Note**

- If the space is too wide, a sheet may feed diagonally.
- If the space is too narrow, a sheet may not feed.

Step 4 Set Up the Printer Driver for Printing

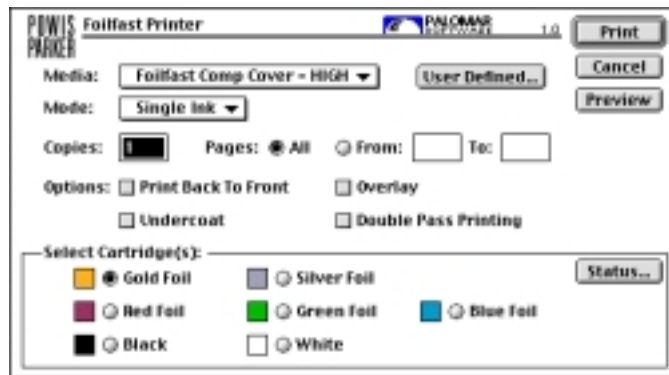
1. Select **Page Setup** from the **File** menu to open the **Page Setup** dialog box.
2. Set any necessary settings, such as **Size** or **Orientation**, depending on the document to be printed.



3. Once the settings have been selected, click **OK**.

Step 5 ► Print

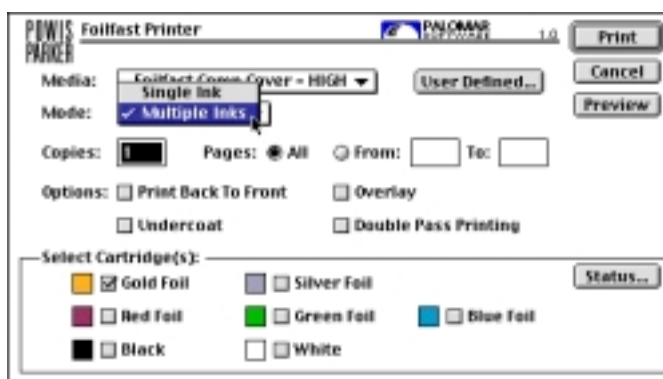
1. Select **Print** from the **File** menu.



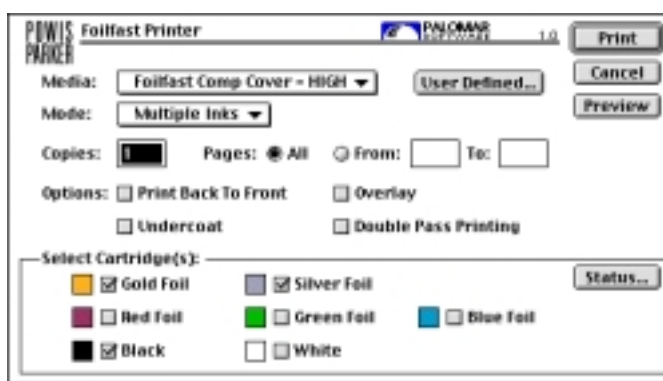
2. Select your cover type from the Media menu.



3. Select Multiple Inks from the Mode menu.



4. In the Select Cartridge(s) area, click the radio buttons next to the colors you wish to use.



Note

Even though you have set the color of an area to your desired color, the area will not be printed if the corresponding cartridge has not been checked.

6. **Click Preview in the Print dialog box to confirm that the specified foil colors are correct.**

The Preview window shows the foil colors that will actually print rather than those specified by the application.

**Caution**

The foil color that is assigned may differ from your intended foil color, so be sure to check the Preview window before printing.

9. **When you are satisfied with the contents of the Preview window, click Print Page.**

**Note**

If you are not satisfied with the assigned colors, click on Cancel and respecify colors in your application. Then click Preview again.

Chapter 2

The Foilfast Printer Driver

Printer Driver Functions

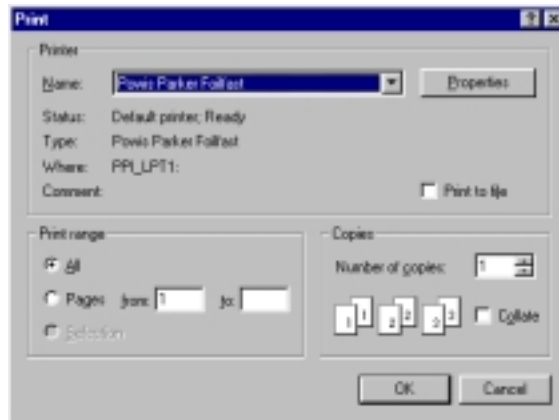
This chapter describes each of the printer driver settings required for controlling the printing operations. Read it to learn the specific setup details for different printing modes.

WINDOWS: Foilfast Printer Driver Setup

How to Open the Printer Driver Setup Dialog Box

You may open the printer driver setup dialog box in one of the following ways.

- Select Print from the File menu, and then click Properties in the Print dialog box.



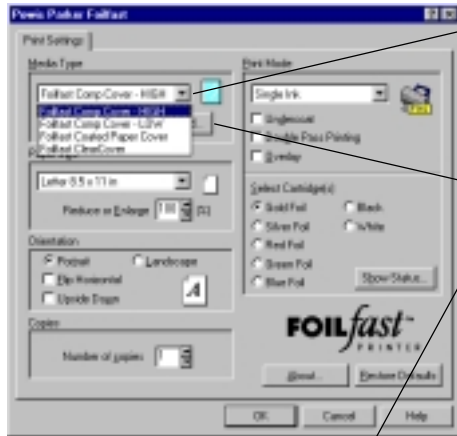
- Select Page Setup from the File menu. Click Printer in the Page Setup dialog box, and then click Properties in the displayed dialog box.



Note

To access the Foilfast printer properties controls, you must first select the Powis Parker Foilfast Printer as the printer you wish to use.

Print Settings



Media (Cover) Type

Click the down arrow, and select the desired media type from the displayed settings. The available options are as follows:

- **Foilfast Comp Cover – HIGH**
- **Foilfast Comp Cover – HIGH**
- **Foilfast Coated Paper Cover**
- **Foilfast ClearCover**
- **User Defined...**

Click this button to save your own settings. To do this, after setting the necessary items, click this button so that the User Defined Document Type dialog box is displayed. Type the document type name in the “Save as” field, then click the Save button. Up to ten document types can be saved. To delete a document type, click the document type name you want to delete in the list, then click the Delete button.

NOTE: HIGH and LOW designate power settings for comp covers. HIGH is the default setting, and we recommend it for best results.



Paper Size

Click the down arrow, and select the desired sheet size from the displayed list. The available options are as follows:

- **Letter 8.5 x 11 in**
- **Legal 8.5 x 14 in**
- **Half Letter 5.5 x 8.5 in**
- **A4 210 x 297 mm**
- **A5 148 x 210 mm**
- **B5 182 x 257 mm**
- **User Defined...**

To open the User Defined Paper Size dialog box, select the User Defined... option from the Paper Size menu. In this dialog, you can create your custom size. Enter the width and length, and type the name of your custom size. Then click “Save” to save the settings. Up to ten settings can be saved. To delete a setting, click the saved name in the list, then click the Delete button.

- **Reduce or Enlarge**

Scaling can be set between 25% to 400%. This control is grayed out when you select “User Defined...” (including user defined names) for paper size. The default setting is 100%.





Orientation

This setting sets the sheet orientation.

- **Portrait/Landscape**
Click one of the radio buttons to set the orientation to either Portrait or Landscape.
- **Flip Horizontal**
Turning on this option prints an image flipped horizontally, the mirror image of the document as it displays on your screen. You may want to use this feature when printing in black or white on ClearCovers.
- **Upside Down check box**
Check this box to print the image 180 degrees rotated.

Copies

Input the number of copies you wish to print by typing the number in the edit box.



Print Mode

Click the down arrow, and select the desired print mode from the displayed settings. The available options are as follows:

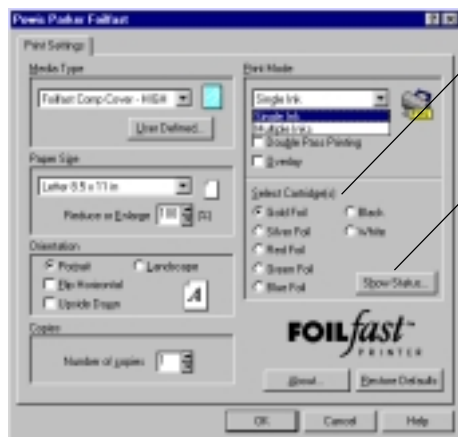
- **Single Ink (one foil color)**
This print mode allows a document to be printed in monochrome using a selected cartridge. When you select Single Ink mode, all selectable cartridges are shown with radio buttons in the Select Cartridge(s) area. The default cartridge selection is Gold Foil.
- **Multiple Ink (multiple foil colors)**
This print mode allows a document to be printed in multi-color using any selected cartridges. When you select Multiple Ink mode, all selectable cartridges are shown with checkboxes in the Select Cartridge(s) area. You must select at least 1 and no more than 7 colors. The default cartridge is Gold Foil.
- **Undercoat check box**
The primer cartridge will be used for printing when Undercoat is checked. The primer cartridge is required for printing on ClearCovers, and it may improve the print quality on other print media. The default setting is Undercoat off.
- **Double Pass Printing check box**
When using sheets with a rough texture, you may want to check Double Pass Printing to increase the density of the foil. When Double Pass Printing is checked, the printer prints each line twice. This check box is grayed out when Foilfast ClearCovers is selected. In the Default setting, the Double Pass printing checkbox is not checked.

Note

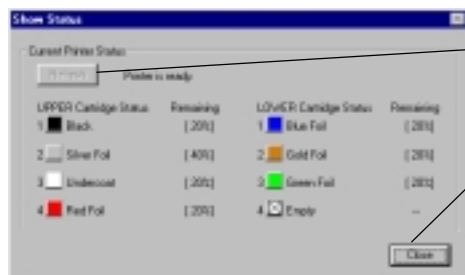


Selecting Double Pass printing will double the foil consumption rate.

- **Overlay check box**
This option allows two consecutive pages of a document to be printed on the same sheet.



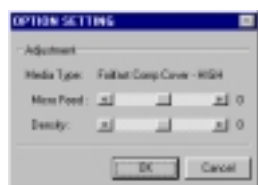
- **Select Cartridge(s)**
Click the radio button next to the cartridge(s) you wish to use.
- **Show Status... button**
Shows the percent remaining for each installed cartridge.



- **Refresh button**
Click Refresh button to refresh and update the latest printer status.
- **Close button**
Click Close button to close the Show Detail dialog box.



Powis Parker Foilfast Information dialog box
Click the Show Status... button while holding down the Ctrl and Alt keys to see the ROM version number EEPROM version number, your printer's serial number and the number of printed bands.



OPTION SETTING dialog box
Click the Restore Default button while holding down the Ctrl and Alt keys to see more printing options.

Micro Feed:

During printing, the image sometimes shows lines at intervals of approximately 10 mm (0.39"). This occurs when the line feed amount (distance between the lines) has gotten too small. You can remove these lines by adjusting the line feed amount. Move the slider to the left to decrease the space between lines. Move the slider to the right to increase the space between lines.

Slider Setting: Unit = 2/5600" (9 μ m)
Range = -45 μ m ~ +45 μ m

Density:

This option allows you to adjust the print density.
Slider Setting: Unit = 2°C
(reference ambient temperature)
Range = -10°C ~ +10°C

MACINTOSH: Printer Driver Functions

This chapter explains how to use the Foilfast printer driver. The main sections are:

- Using the Chooser
- Page Setup Dialog Box
- Print Dialog Box

Using the Chooser

The Chooser, found under the Apple menu, is part of the system software and can be opened from the Finder or from within an application.

When you use the Powis Parker Foilfast for the first time, or when you switch to the Foilfast after using another printer, use the Chooser to select the new printer. Once you've selected a printer in the Chooser, that printer remains the active printer until you use the Chooser to select a different one.

Chooser Settings

The following window opens when the Chooser is selected from the Apple menu.



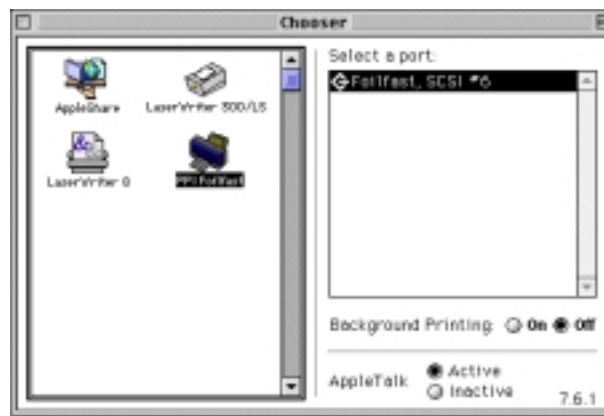
Selecting a Device

A summary of all the devices that may be used is displayed on the left side of the Chooser window. When there are multiple zones on a network, the left side of the display appears as shown below.



Selecting the Port

The SCSI or USB device number of the Powis Parker Foilfast printer is displayed in the upper right portion of the Chooser window, after you select (click) the PPI Foilfast driver on the left side. When more than one Foilfast printer is connected to the SCSI or USB bus, select the device number for the printer you want to use. When only one Foilfast printer is present, it is not necessary to select the device number.

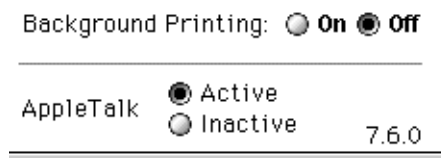


Note

If you have more than one SCSI bus in your Macintosh, "SCSI #6 BUS #1" or similar will be displayed.

Background Printing

If you installed the Queue Kit software, you can enable or disable background printing through the Chooser. In the Chooser, select the Powis Parker Foilfast printer in the Background Printing section, select the On radio button to enable background printing or the Off button to disable it. When the software is first installed, background printing is off.



Note

Background printing cannot be selected if the Queue Kit software is not installed.

Using AppleTalk

Because the Foilfast printer connects to the Macintosh SCSI port rather than the AppleTalk port, you can turn AppleTalk on or off, as you wish, without affecting operation of the Foilfast printer.

Page Setup Dialog Box

Select Page Setup from the File menu. The Foilfast Page Setup dialog box appears.



Size

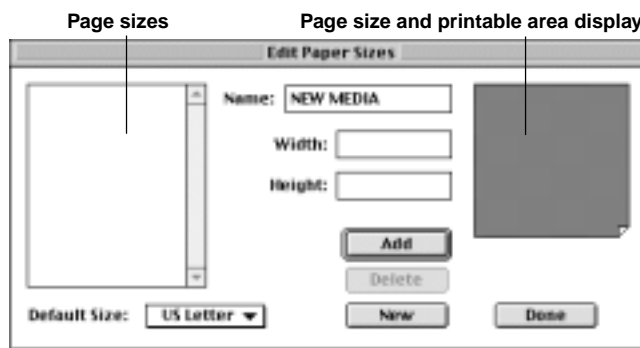
From the Size menu in the Page Setup dialog box, you can select one of the following page sizes:

- Letter 8.5 x 11 in
- Legal 8.5 x 14 in
- Half Letter 5.5 x 8.5 in
- A4 210 x 297 mm
- A5 148 x 210 mm
- B5 182 x 257 mm



Custom Page Sizes (Edit Button)

To create custom paper sizes, click Edit in the Page Setup dialog box. The Edit Paper Sizes screen appears.



To create a new page size, click “New”, enter a new name, height, and width, then click Add. The new page size will appear in a list in the left portion of the window. To change a setting, click on the name in the page sizes list and change the page length and width. To delete a size, click on the name and then click Delete.

The Page Size and Printable Area appears on the right side of the Edit dialog box. You can switch between the graphical and the text previews by clicking in the Preview box. This also works in the Page Setup dialog box.



Note

When entering the page size, you must also enter the unit of measurement. For example, if you type in “5””, the size will be set to 5 inches, and if you type in “5 mm”, the size will be set to 5 mm.

Reduce or Enlarge

The Page Setup dialog also contains a Reduce or Enlarge box, in which you can enter percentages ranging from 25 to 400. The document is printed smaller or larger depending on the percentage you choose. The default setting is 100 percent.

Orientation

Click on the icon for landscape printing to print documents in landscape orientation or portrait for portrait orientation.

Printer Effects

Flip Horizontal and Upside Down can be turned on or off by clicking the corresponding check box in the Printer Effects section.

Flip Horizontal flips the image left to right, to print a mirror image of your document as it displays on your screen. You may want to use this feature when printing in black or white on ClearCovers.

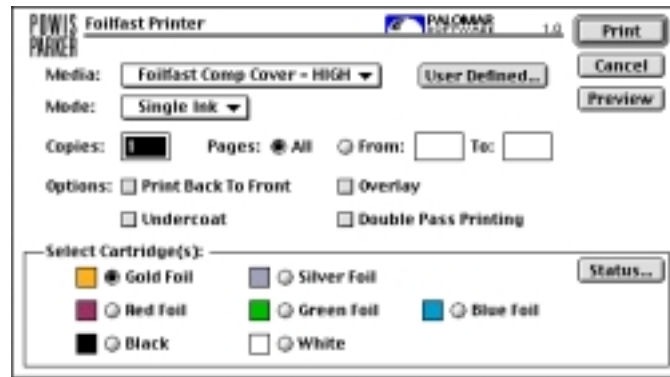
Upside Down rotates the image 180 degrees before printing.

OK/Cancel

If the new settings are satisfactory, click OK. Otherwise, click Cancel.

Print Dialog Box

Select the Print from the File menu. The Foilfast Print dialog box appears.

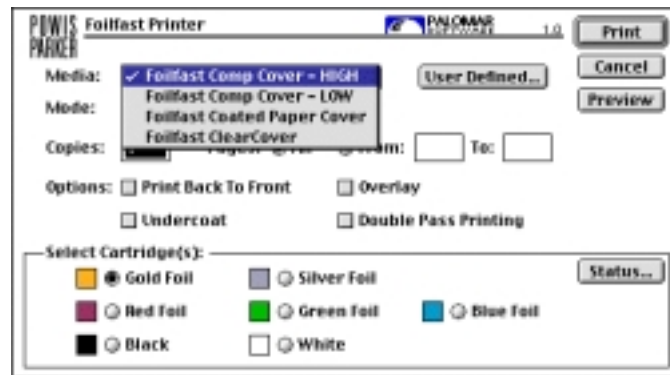


Note

When you select Print from the File menu, the Print dialog box may display not only the Foilfast settings but also additional settings specific to the application you are using. For these settings, refer to your application's user's manual.

Media (Cover Type)

From the Media menu in the Page Setup dialog box, you can select one of the cover types listed below.



- Foilfast Comp Cover – HIGH
- Foilfast Comp Cover – LOW
- Foilfast Coated Paper Cover
- Foilfast ClearCover

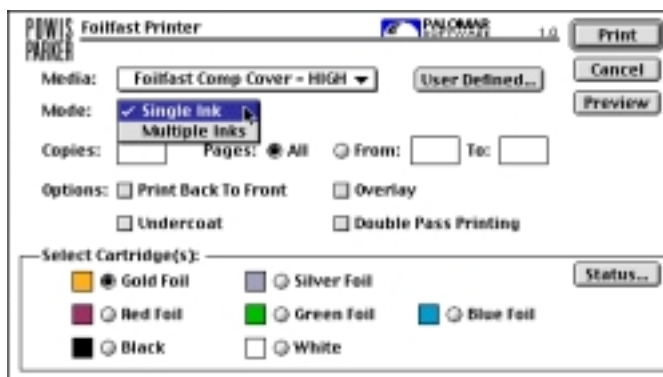


Note

HIGH and LOW designate the power settings for comp covers. HIGH is the default setting, and we recommend it for best results.

Mode

Select the desired print mode from the displayed settings.



- **Single Ink (one foil color)**
This print mode allows you to print a document in monochrome using one cartridge. All selectable cartridges are shown with radio buttons in the Select Cartridge(s) area in Print/properties. Click the radio button next to the color you wish to use. The default selection is Gold Foil.
- **Multiple Inks (2 or more colors)**
This print mode allows you to print a document in multiple colors. Select Multiple Inks in the Select Cartridge(s) area in Print/properties. All selectable cartridges are shown with checkboxes. You must select at least 1 and no more than 7 colors. The default selection is Gold Foil.

Copies

In the Copies box, enter a number between 1 and 99.

Pages

Select either one of the radio buttons: All or From/To. When you select From/To, you can specify a range of pages to print.

Print Back to Front (check box)

Pages are print in reverse order, beginning with the last page.

Overlay (check box)

Printing is executed in the Overlay mode. In the overlay mode, pages one and two of the document are printed on the same page.

Undercoat (check box)

The primer cartridge will be used when this checkbox is checked. The primer cartridge is required when printing on ClearCovers, and it may improve the print quality on other print media. The default setting is Undercoat off.

Double Pass Printing (check box)

When using sheets with a rough texture, you may want to check Double Pass Printing to increase the density of the foil. When Double Pass Printing is checked, the printer prints each line twice. This check box is grayed out when Foilfast ClearCover is selected. In the Default setting, the Double Pass printing checkbox is not checked.



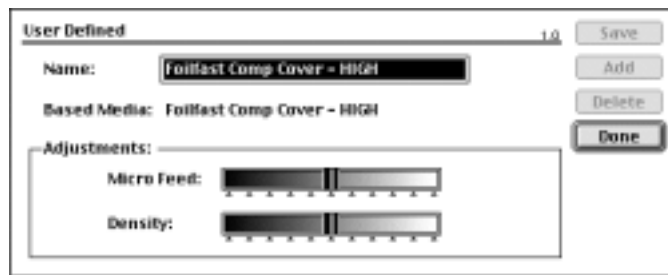
Note

Selecting Double Pass printing will double the foil consumption rate.

User Defined button

The user Defined dialog allows you to designate the properties for printing on customer cover types. The following print setting options will be saved with your specified cover type name.

- Micro Feed adjustment and density adjustment
- Printer Effects (Flip Horizontal and Upside Down)
- Print Mode, Select Ink Cartridge(s) and Undercoat



Micro Feed

During printing, the image sometimes shows lines at intervals of approximately 10 mm (0.39"). This occurs when the line feed amount (distance between the lines) has gotten too small. You can remove these lines by adjusting the line feed amount. Move the slider to the left to decrease the space between lines. Move the slider to the right to increase the space between lines.

Slider Setting: Unit = 2/5600" (9 μ m)
Range = -45 μ m ~ +45 μ m

Density

This option allows you to adjust the print density.

Slider Setting: Unit = 2°C (reference ambience temperature)
Range = -10°C ~ +10°C

To create a new custom cover type, choose one of the factory standard cover types and select the desired settings before clicking the User Defined button. Adjust Micro Feed and Density if necessary. Then, enter your cover type and click Add. The new cover will appear under the separator line in the Media list. You can create up to 29 new custom covers. To delete a cover type, select the name from the Media menu and click the User Defined button, then click Delete.

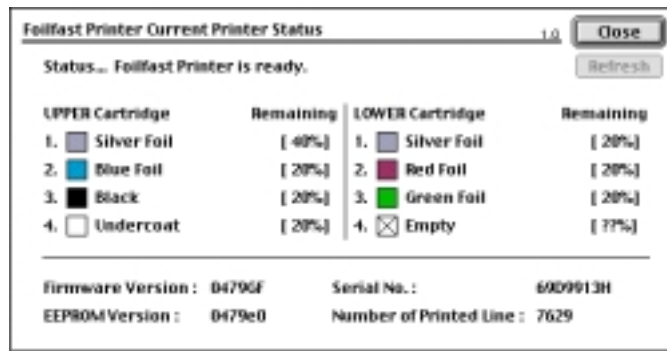
Select Cartridge(s)

Foilfast premium foil cartridges come in a range of colors. You may load several colors into the Foilfast printer at the same time, or you may load just a single color.

- **Single Ink (one foil color)**
This print mode allows you to print a document in monochrome using one cartridge. All selectable cartridges are shown with radio buttons in the Select Cartridge(s) area in Print/properties. Click the radio button next to the color you wish to use. The default selection is Gold Foil.
- **Multiple Inks (2 or more colors)**
This print mode allows you to print a document in multiple colors. Select Multiple Inks in the Select Cartridge(s) area in Print/properties. All selectable cartridges are shown with checkboxes. You must select at least 1 and no more than 7 colors. The default selection is Gold Foil.

Status button

Shows the percent remaining for each installed cartridge. NOTE: Firmware Version, EEPROM Version, Serial No. and Number of Printed Lines will not display while printing in the background using a USB connection.



Close button

Click the Close button to close the Show Detail dialog box. While the Option key is held down, click the Status button to display the Options dialog. When the Complete Print Job check box is selected, your print job will be monitored until printing is complete. Note that it will always monitor the print job completion while printing in background.

Refresh button

Click the Refresh button to refresh and update the latest printer status.

Print

Click Print to start printing according to the current print settings.

Cancel

Click Cancel to discard the changes and close the Print dialog box.

Preview

In the Print dialog box, click Preview to display an image of the page exactly as it will print. Note that the Preview image quality depends on your monitor's current color level.



Use the left and right arrow buttons in the Preview window to scroll through the pages. To display a specific page number, click in the page number box and type in the number of the page you want to see.



Click one of the Zoom buttons to display the page reduced (to fit in the window), normal (actual size), or enlarged (dot for dot at your screen resolution).



Click Print Page to print only the page currently displayed. Click on the Print Page button while holding down the Option key to print all the pages. Click on the Cancel button to close the Preview window without printing.

Using Background Printing

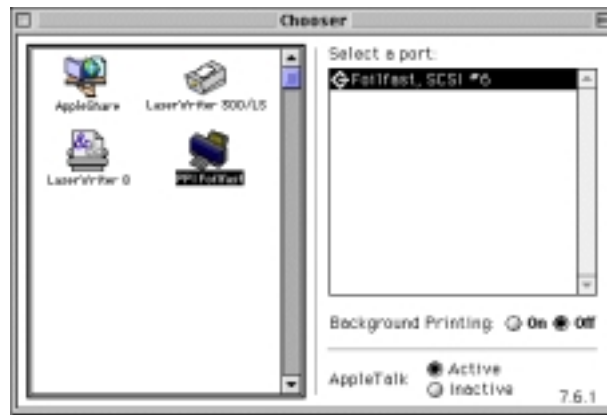
This section explains how to use background printing for Macintosh operating systems 7.6.1 or earlier. If your Macintosh is running on System 7.6.1 or later, the standard desktop printer will be used for background printing.

Background Printing

Background printing allows the computer to do other jobs while a document is printing.

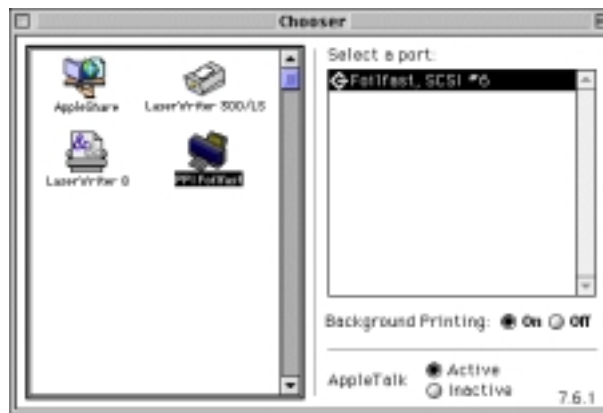
1. **To use background printing, select the Chooser from the Apple menu.**

When the Chooser window appears, click on the PPI Foilfast printer driver icon in the left half of the window. A list of attached Foilfast printers appears in the right half of the window.



2. **Click on the SCSI # corresponding to the Foilfast printer that you want to use. (If there is more than one listed, each will have a different SCSI device number.)**

Once you have selected the printer to use, click the On radio button in the Background Printing section of the window. Then click the close box to close the Chooser window.



Note

- When the printer software is first installed, background printing is off. Once you have turned background printing on through the Chooser, it remains on until you use the Chooser to turn it off again.
- Sometimes, depending on the system environment, printing will fail to start when background printing is enabled. If this happens, disable background printing and print your document using foreground printing.

Using the Queue Monitor

Background printing is controlled through the Queue Monitor. Using the Queue Monitor, you can view the status of print jobs, pause and resume printing, rearrange the order of print jobs in the queue, and cancel print jobs.

The Queue Monitor appears only when background printing is on. When background printing is on, and you choose Print to start printing a document, the Queue Monitor is automatically launched. The print job is quickly “spooled” (temporarily saved to your hard disk), and then the Queue Monitor takes over the job of feeding the spooled print job to the printer. Once the Queue Monitor has taken over printing in the background, you can start using your Macintosh for other tasks.

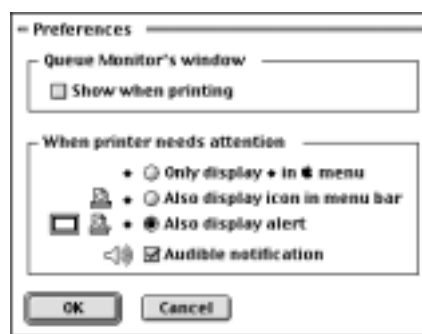
To bring the Queue Monitor window to the foreground so that you can check the status of print jobs, select Queue Monitor from the application menu at the upper right corner of your screen (at the far right edge of the menu bar).



When the Queue Monitor window is displayed, selecting Close from the File menu hides the window.

Preferences settings

To display the Queue Monitor Preferences dialog box, bring the Queue Monitor to the front (click on its window or choose Queue Monitor from the application menu) and then choose Preferences from the Queue Monitor's File menu.



If the “Show when printing” check box is checked, the Queue Monitor window will be displayed during printing.

In the “When printer needs attention” section of the Preferences dialog box, you can select what alerts will be displayed when Queue Monitor needs attention during printing. You can choose to have a diamond displayed on the Apple menu, a diamond plus a flashing icon, or a diamond and flashing icon plus an Alert box. If you check the Audible notification check box, you’ll receive an audible warning as well.

Choose Stop Printing from the Queue Monitor's File menu to pause printing. Choose Resume Printing from the same menu to restart printing.

Queue Monitor Window

The Printing box displays the name of the document currently printing, while the Waiting box displays the names of waiting documents, in the order in which they will print.

The current print job and any of the print jobs in the queue can be cancelled by clicking on the Cancel Printing button. To cancel any of the print jobs in the queue, highlight the documents in the Queue box and then click on the Cancel Printing button.

To change the order of documents in the queue, highlight the documents and then drag them with the mouse to their new position within the queue.

The printer status is displayed in the Message Area.

Error Display

When the printer settings are invalid or when printing stops for some reason, an error message is displayed.

If an error message appears while you are changing printer settings, correct the settings according to the error message.

If an error message occurs while printing, refer to the “Troubleshooting” section to remedy the error and continue printing.

Appendix

The Appendix describes maintenance and troubleshooting procedures, and the basic specifications of the printer.

Cleaning the Foilfast Printer

We recommend that you clean this printer periodically to ensure satisfactory long term operation.

Cleaning the Printer

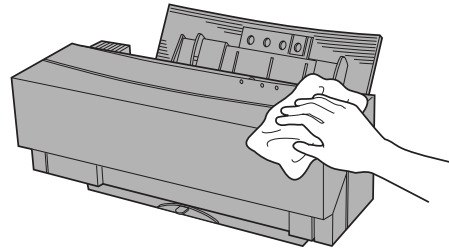
Follow the cleaning steps described below.

1. Unplug the printer.

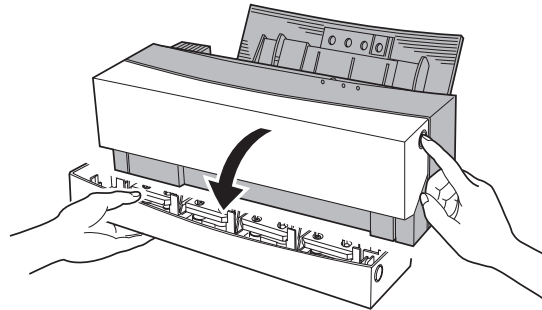
Make sure you unplug the printer before cleaning it.

2. Clean the outside of the printer.

Use a soft cloth to wipe the outside of the printer to avoid dust and dirt build-up.

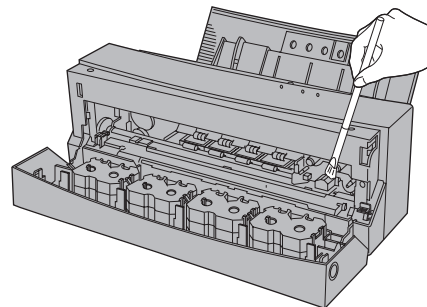


2. Push the front cover release button and gently lower the front cover.



3. Clean the inside of the printer.

Use a soft brush to brush away dirt and dust.



**Caution**

Brush very gently around electrical components, and be careful not to leave any brush hairs on or near these components.

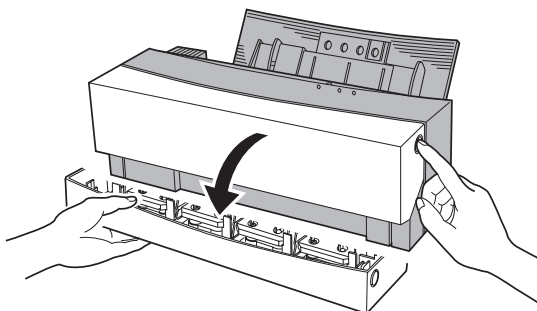
Cleaning the Print Head

Follow the steps below, using isopropyl alcohol and a cotton swab.

**Caution**

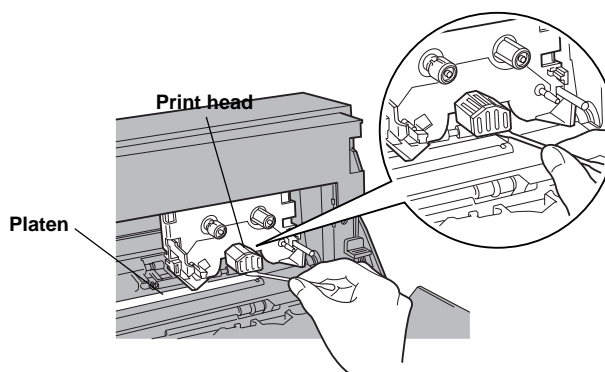
- Make sure to unplug the printer before cleaning it.
- Do not use benzene, thinner, or other volatile materials, as they may damage the printer components.
- Do not get the inside of the printer wet.

1. Push the front cover release button and gently lower the front cover.



2. Wipe the print head with a cotton swab dipped in isopropyl alcohol.

The print head may not come clean in one wipe so repeat several times.

**Caution**

- Avoid getting alcohol on the platen.
- Wait until the alcohol dries before printing.

Cleaning the Platen

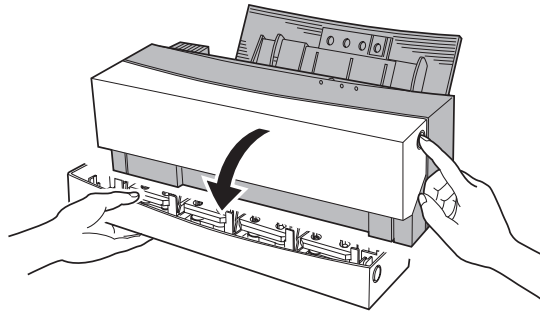
Use cellophane tape to clean the platen as described below.



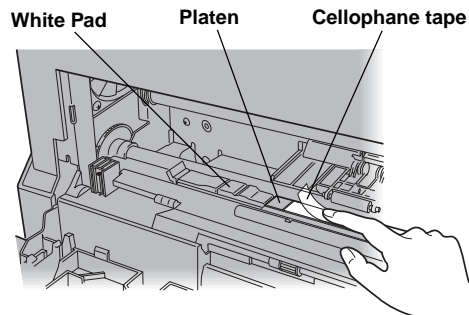
Caution

Make sure to unplug the printer before cleaning it.

1. Press the front cover release button and gently lower the front cover.



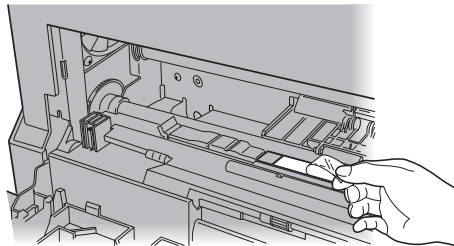
2. Gently apply the tape to dirty spots on the platen, and rub your finger over the tape.



Caution

Do not touch or remove the white pad on the left side of the platen. Doing so may damage the printer.

3. Slowly peel off the tape.
Repeat as necessary to remove dirt from the platen.



Cleaning the Feed Roller

Use isopropyl alcohol and a cotton swab to clean the feed roller as described below.

Caution:

- Do not use benzene, thinner, or other volatile materials, as they may damage the printer components.
- Do not get the inside of the printer wet.

1. Initialize the printer

The printer must be initialized for cleaning the feed roller.

Turn off the printer first, then press the Power button to turn on the printer.

2. Open the front cover

Push the front cover eject button and gently lower the front cover.

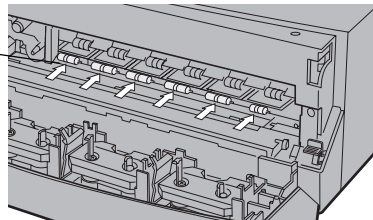
3. Secure the carriage

Press the *ready/insert* button on top of the printer to move the carriage to the safety position.

4. Clean the feed roller

Wipe the feed roller (metal shaft roller) with a cotton swab dipped in isopropyl alcohol. The feed roller may not come clean in one wipe, so repeat several times.

Feed Roller



Caution:

- Avoid getting alcohol on the platen.
- Wait until the alcohol dries before printing.

5. Turn the feed roller

Press the *ready/insert* button on top of the printer to turn the feed roller. Wipe the feed roller (metal shaft roller) with a cotton swab, repeat until clean.









6. Close the front cover




Close the front cover after you've finished cleaning the feed roller. The printer will be ready for printing.

Indicator Lights Summary







Normal Printing Mode




Indicator light status

Light	Light status	Printer status
power		Ready for operation
		Printing sample page
		Not ready for operation
ready		Select mode (ready to print)
		Deselect mode (not ready to print)
		Receiving/processing data
error		Printer error detected
		Normal

 = on  = fast blinking  = slow blinking  = off

Alarm status shown by indicator lights

Status	Light Status			Description
	power	ready	error	
Hardware error				An electrical circuit error has occurred
Nonvolatile error				The contents of the printer's nonvolatile memory have been lost
Out of sheets				The printer is out of sheets (detected during sheet feed)
Sheet jam				A sheet jam was detected
Ribbon end detected				The foil in the cartridge has been used up
Cartridge change error				An error was detected during a cartridge exchange, or there are eight cartridges installed in the holders plus one already on the carriage
Mechanism error				An error was detected in the printer mechanism
Front cover open				The front cover is open
Necessary cartridge not installed				The necessary cartridge is not installed or is used up. Forced printing is still possible.

 = on  = fast blinking  = off

Troubleshooting







What to do if a cartridge is stuck in the carriage

Remove the cartridge as follows:

1. Turn off the power.
2. Open the front cover and remove all cartridges on the cartridge holder plates.
3. Close the front cover, and turn on the power. The carriage will reset.

What to do when an error occurs

When a printer error occurs, the error light flashes, and the error message dialog box appears on your computer's screen.

power	ready	error
		
 on	 off	 fast blinking

1. Check the error message

The error message dialog box appears on your computer's screen.



Note:

The error message dialog box cannot display if your computer is not capable of bi-directional printing, as is the case with some older machines.

2. Fix the problem

Fix the error to continue printing, or terminate printing.

The ready/insert button

The *ready/insert* button is used for a variety of functions, depending on the printer status.

The functions during normal printing are described below.

- Sheet feed and eject

Sheet feed

When the sheet is not fed (*error* light is blinking), press the *ready/insert* button to feed the sheet.

Sheet eject

If sheet is already in the printer and no data is being received (*ready* light is on), press the *ready/insert* button to eject the sheet.

- Canceling an alert

To cancel an alert for anything other than a hardware or mechanism error, press the *ready/insert* button after fixing the problem that caused the alert.

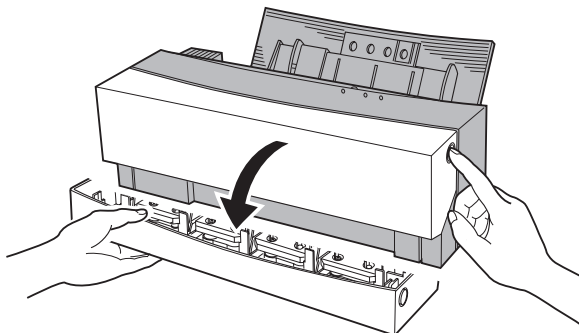
- Forced printing and clearing data

When the data transfer from the computer stops for more than about 30 seconds, and the *ready* light is blinking quickly, press the *ready/insert* button to force the printer to print the data it has received so far.

Clearing Sheet Jams

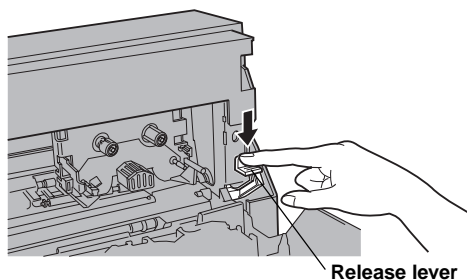
Follow these steps to clear a sheet jam.

1. Press the **power** button to shut off the power.
2. Press the front cover release button and gently open the front cover.



3. Press the release lever and gently pull out the jammed paper.

Jams can be caused by a dirty platen. Clean the platen following the directions in the “Cleaning the Platen” section of this Appendix.



4. Close the front cover.
5. Press the **power** button to turn on the power.

Troubleshooting for Windows

When problems occur during operation of the printer, please check the following troubleshooting tips.

- 1 **Power does not come on**
- 2 **Printer errors cannot be detected by the printer driver or the printer driver cannot tell which cartridge is in which holder**
- 3 **Printer does not print or stops while printing**
- 4 **Printing is light, distorted, or has gaps**
- 5 **Printing is not working or is extremely slow**
- 6 **Sheet is not feeding correctly or not ejecting correctly from the sheet feeder**
- 7 **Printer makes strange noises when the power is turned on and the error lights blink**
- 8 **Mechanism or cartridge error**
- 9 **Cartridges are not correctly recognized**
- 10 **Print Quality**
- 11 **Connection Method**
- 12 **Other problems and operations**

1. Power does not come on

Is the power cord disconnected?

- Make sure the power cord is plugged into an outlet as well as connected to the printer. After checking the power cord, push the *power* button to turn on the printer.

Is the printer plugged into an extension block or power strip?

- After turning on the extension block or power strip, press the *power* button on the printer.

2. Printer errors cannot be detected by the printer driver or the printer driver cannot tell which cartridge is in which holder

Does your computer have a bi-directional port? Is the cable bi-directional?

- Windows 95/98 Plug & Play installation and bi-directional interfacing with the printer are only possible if your computer supports bi-directional parallel ports and you are using a bi-directional cable.

3. Printer does not print or stops while printing

Is the printer turned on?

- Before printing make sure the printer is turned on.

Is the front cover closed properly?

- Make sure that the front cover is closed properly.

Is the *ready* light off?

- Press the *ready/insert* button and make sure that the *ready* light comes on.

Is the interface cable correctly connected?

- After connecting the cable, make sure nothing is putting pressure on the cable, and tighten the fastening screws and clamps to secure the cable.

Is there a sheet jam?

- Remove the sheet. If the sheet is caught in the rollers, open the front cover, push down on the release lever, and gently remove the sheet.

Are the settings in the application correct?

- Recheck the printer settings in the application.

Is the printer driver correctly installed?

- Install the printer driver from the Installation Disc.

Is the cable disconnected?

- When one of the followings occurs, it is possible that the cable is broken or disconnected.

- 1) The gauge in the Print dialog box does not progress.
- 2) The “Out of Sheets” message appears repeatedly.

Replace the cable with a new one.

Are you using a printer selection switch or a printer buffer?

- With bi-directional interfaces, operation is sometimes unreliable when using printer switching boxes or printer buffers. If you are using a printer selection switching box or printer buffer, use one-way communication.

Is your cable too long?

- Do not use a cable that is longer than you need. The signals become more unstable as the cable gets longer.

Are you using the wrong cartridges?

- Use the correct cartridges. The Foilfast printer will only accept Foilfast™ premium foil cartridges.

Are the cartridges correctly installed?

- Insert cartridges in the holders with the B side up.

Is the foil in one of the cartridges all used up?

- When the foil in a cartridge has been spent, black and silver stripes will be visible on the ribbon. Install a new cartridge. After replacing the cartridge, printing will continue from where it left off.

Do you have enough hard disk space?

- The Foilfast requires work space on the hard disk when it prints. Keep enough space open on the disk for the printer to operate. (After printing, the work space is released.)

Does the hard disk have areas where reading or writing are unreliable?

- If there are areas on the hard disk where reading or writing are unreliable, sometimes a printing error will occur and printing will stop. Periodically use a utility like SCANDISK that comes with Windows 95/98 to prevent these problems.

4. Printing is light, distorted, or has gaps**Has one of the foils separated from the head?**

- Stop the printing and reinstall all the cartridges. Take up any slack in the foils. If a particular cartridge repeatedly causes problems, try a different cartridge.

Is the head dirty?

- Clean the head by following the directions in this guide for cleaning the printer and head. The platen often gets dirty at the same time as the head, so it is recommended to clean the platen after cleaning the head.

Is the platen dirty?

- Clean the platen by following the directions in this guide. If anything is stuck to the platen, remove it, being careful not to damage the platen. The platen often gets dirty at the same time as the head so it is recommended to clean the platen as well as the head. If cleaning the head and the platen does not work, contact the Fastback dealer from whom you purchased the printer.

5. Printing is not working or is extremely slow**Do you have enough disk space?**

- Make sure there is enough space on your hard disk. (The working space is released once printing is finished.)

Is the application set for color printing? Does the application support color printing?

- Some applications have color printing enable/disable settings. Some applications do not support color printing. Read the manual for the application and check the color settings.

Are you using many applications at one time?

- When very little memory is available for print processing, printing may take a long time or fail. Close as many applications as possible and try again.

Do you have enough memory?

- Handling color images requires a lot of memory for the application and for the data. Sometimes there is insufficient memory left for printing. Make sure your computer has enough memory to print the size of images you are using.

General protection fault errors occur.

- These errors can occur when there is insufficient memory for color printing or when part of the hard disk has become corrupted. After decreasing the size of the print data or scanning the hard disk, try printing again.

Is the free space on the hard disk fragmented?

- The time required for printing can increase dramatically if the free space on the disk drive is extremely fragmented. Clean up your files and defragment the disk by periodically running a utility like DEFRAG that comes with Windows.

6. Paper is not feeding correctly or not ejecting correctly from the sheet feeder

Are you using sheets that are folded or ripped?

- The Foilfast printer is compatible only with specific types of cover materials. Please see page 25, “Identifying Foil Cartridges and Cover Types,” for a list of compatible cover types.

Are you using a curled sheet?

- This will cause sheet jams. The sheet should be curled the opposite way to flatten it out before it is used.

Are you using sheets with folded or cut corners?

- This causes problems since the sheet position sensor and sheet length sensor do not work properly.

Is there a sheet jam?

- Clear the jam.

Is the feed guide too narrow for the sheet?

- Set the feed guide so that there is approximately 0.02” between it and the sheets themselves.

Are there too many sheets in the sheet feeder?

- The sheet feeder can hold up to 10 composition covers or 1 ClearCover.

Is your cover too thick or too thin?

- Composition covers should be between 16 – 18.5 points thick (.0016 – .00185 inches). Clear covers should be between 6.5 – 7.5 points thick (.0065 – .0075 inches). Covers that fall outside the bounds of these thickness ranges may work in the Foilfast printer, but Powis Parker does not recommend using them. Covers that fall substantially beyond these thickness ranges may damage the printer's feeding mechanism and may void your warranty.

Is there anything blocking the output slot (such as a large pile of printed sheets)?

- This can cause ejection or feed problems.
- Make sure nothing is on the output tray.

Have you loosened the sheets sufficiently prior to loading them into the sheet feeder?

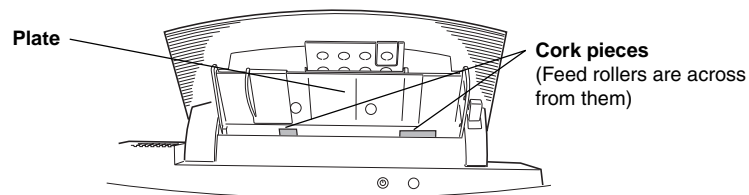
- Sheets must fanned at least once before they are loaded into the sheet feeder. If not, sheets may stick to one another, and cause multiple sheets to feed into the printer at one time, or other forms of misfeeding.

Is the *error* light blinking?

- When the sheet is not fed (error light is blinking), press the *ready/insert* button.

If the sheet is not fed even by pressing the *ready/insert* button, the sheet feed roller may be dirty. Clean the feed rollers by following the procedures described below.

- (1) Turn off the printer.
- (2) The feed rollers are facing the cork pieces on the sheet feed tray, one on the left, and two on the right as you face the front cover. Wipe the feed rollers with a cotton swab dipped in water or with a soft wet rag.



- (3) Press down the plate of the feed tray as you rotate the feed rollers. Wipe each roller thoroughly. When the roller makes a turn, the plate of the feed tray may stay up. However, the plate will come down when the printer is turned on.

7. Printer makes strange noises when the power is turned on, and the error lights blink

Has the carriage packing material been removed?

- Refer to Chapter 1 of this guide for detailed unpacking instructions.

Has the packing tape on the case been removed?

- Refer to Chapter 1 of this guide for detailed unpacking instructions.

Has a cartridge become dislodged from a cartridge holder?

- Open the front cover and make sure the cartridges are correctly installed.

Is there sheet caught between the platen and the print head?

- See the section “Clearing sheet jams” and remove the sheet.

8. Mechanism or cartridge error**Are the cartridges correctly installed?**

- If a cartridge has become dislodged from the holder, a cartridge change error will occur. Open the front cover and reinstall the cartridge.

Are you using the printer on a level surface?

- The printer will not operate correctly on a slanted surface. Place it on a level, stable surface.

Is the printer in a place where it is subject to bumps or vibrations?

- Bumps and vibrations can cause mechanical problems. Place the printer in a place free from vibrations and bumping.

Is the front cover properly closed?

- The printer will not operate correctly if the front cover is not closed properly. Close the front cover all the way.

Is something sitting on top of the printer?

- The printer may malfunction when there are things stacked on top or pressing it from the side. Do not place anything on top of the printer.

Is there an obstruction in front of the output slot?

- If the output slot is obstructed, sheets ejected from the printer can fold and bend and cause a malfunction. When printing, make sure that the output slot is unobstructed and that there is room for sheets to be ejected.

Are you receiving erroneous “cartridge broken” messages?

- Remove the cartridge and manually advance the foil, then reinsert the cartridge and try again. If the message recurs, try a different cartridge.

9. Foil cartridges are not correctly recognized**Is the code sticker on the cartridge dirty?**

- Clean the code sticker.

Is the cartridge installed in the holder with the (A) side up?

- Make sure the cartridges are placed in the holder with the B side up.

Has a cartridge for a different printer been installed?

- Cartridges made by other manufacturers will not work. The Foilfast printer will only accept Foilfast premium foil cartridges.

10. Print Quality

- There may be superfluous foil on the surface of the sheet after foil printing. Gently wipe the superfluous foil with a Kleenex or soft cloth.
- When using sheets with a rough texture, you may want to check Double Pass Printing to increase the density of the foil. When Double Pass Printing is checked, the printer prints each line twice. This check box is grayed out when Foilfast ClearCovers is selected. In the Default setting, the Double Pass printing checkbox is not checked.
- Smoother sheets will give you a better print quality.
- For printing on comp covers, try changing the Media Type setting from comp cover HIGH to comp cover LOW, or vice versa.
- The Foilfast works best with Foilfast branded covers. Other covers may work, but some may not be compatible.

11. Connection Method

I would like to use a printer switcher.

- Since your printer switcher may not support bi-directional communication, use a uni-directional interface setting.

I would like to use multiple printer ports for connections.

- If the computer is AT-compatible, up to three ports (LPT1 to LPT3) can be used, as long as they are parallel ports.

Can I use the printer on a network?

- Yes, the printer can be used on a network, but only with a unidirectional interface and when set for unidirectional communication.

12. Other problems and operations

How do I delete the printer driver?

- For Windows go to Start/Settings/Printers and right-click on the Foilfast Printer icon, then choose Delete. See the directions in this guide for re-installing the driver.

When my display is set for 64,000 or 16,700,000 colors, I run out of memory when printing.

- Windows runs out of memory when there are many display colors. Change to 256 colors when printing. Changing the display mode does not change the print results.

How can I reduce or enlarge my document?

- The printer driver software allows you to scale printing. Specify your scaling factor (25 – 400%) in the Reduce or Enlarge option of your printer driver software.

Troubleshooting for Macintosh

When problems occur during printer operation, please check the following troubleshooting tips.

- 1 **Power does not come on**
- 2 **During installation a “File not found” error occurs or the installer is not found**
- 3 **The icon does not appear in the Chooser**
- 4 **Printer cannot be selected in the Chooser**
- 5 **Printer does not print or stops while printing**
- 6 **Printing is light, distorted, or has gaps**
- 7 **Printing is not working or is extremely slow**
- 8 **Sheet is not feeding correctly or not ejecting correctly from the sheet feeder**
- 9 **Printer makes strange noises when the power is turned on and the error lights blink**
- 10 **Mechanism or cartridge error**
- 11 **Foil cartridges are not correctly recognized**
- 12 **Printing Quality**
- 13 **Connection Method**
- 14 **Other problems and operations**

1. Power does not come on

Is the power cord disconnected?

- Make sure the power cord is plugged into an outlet as well as connected to the printer. After checking the power cord, push the *power* button to turn on the printer.

Is the printer plugged into an extension block or power strip?

- After turning on the extension block or power strip, press the *power* button on the printer.

2. During installation a “File not found” error occurs or the installer is not found

Is At Ease installed?

- If you are using At Ease when you place the Installation Disc in the CD-ROM drive, the following things may happen. (Some of the Performa series start up in At Ease.)

- **The alert dialog box appears.**
- **The installer is not displayed.**

In these cases the following methods can be used to install the printer driver:

Method 1

From the Special menu, select Switch To Finder. Double-click on the installer icon to install the printer driver.

Method 2

If the Switch To Finder function is not available on the Special menu, select Switch To At Ease and check the Off checkbox in At Ease settings. Restart your computer and install the printer driver.

3. The icon does not appear in the Chooser

Is QuickDraw GX enabled?

- If QuickDraw GX is installed, disable it by following these steps:
 1. Select Control Panels from the Apple menu.
 2. Open the Extensions Manager.
 3. Deselect QuickDraw GX in the list of items.
 4. Close the Extensions Manager, and restart your Macintosh.

Is the printer driver installed?

- Install the printer driver from the Installation Disc (CD-ROM).

4. Printer cannot be selected in the Chooser

The USB printer cannot be selected in the Chooser.

Please check the following:

- Make sure that the USB interface cable is properly connected to your printer and your Macintosh, and that the printer is turned on. Then restart your Macintosh.
- If you are using an iMac computer and you are running Mac OS 8.1, make sure that you have installed the iMac Update 1.0.

Are the SCSI cable and terminator correctly connected?

- Correctly connect the SCSI cable and terminator. Make sure that the cable is not bent excessively. Excessive bending of the cable may break the wires inside.

Is the SCSI cable loose?

- Make sure the SCSI cable connectors are firmly attached at both ends using the fastening screws or clasps.

Is the SCSI device number set correctly?

- Make sure the SCSI device number for the printer is not the same as that used by any other SCSI device attached to the computer. Each SCSI device must have a unique device number. (If the computer has more than one SCSI bus, then the device number must only be unique for the bus that the printer is attached to.)

Are you using a high impedance cable?

- Use a high impedance cable for each device in the SCSI chain.

Is the cable too long?

- Do not use a cable that is longer than you need. The signals become less stable as the cable gets longer.

Is the printer turned on?

- Make sure the printer is turned on before using the Chooser to select the printer.

5. Printer does not print or stops while printing**Is the printer turned on?**

- Before printing, make sure the printer is turned on.

Were the printer and computer turned on in the wrong order?

- Turn the printer on before turning on the computer.

Is the front cover closed properly?

- Make sure that the front cover is closed properly.

Is the *ready* light off?

- Press the *ready/insert* button and make sure that the *ready* light comes on.

Is the SCSI cable correctly connected?

- Make sure the cable is not bent excessively, and secure it firmly at both ends with the fastening screws or clasps.

Is the terminator connected?

- Make sure there is a terminator connected to the last peripheral in the SCSI chain. If you are using a device with an internal terminator, make it the last peripheral in the SCSI chain.

Is the device number set correctly?

- Make sure the SCSI device number of the printer is not the same as that used by any other SCSI device attached to the computer. Each SCSI device must have a unique device number. (If the computer has more than one SCSI bus, then the device number must only be unique for the bus that the printer is attached to.)

Is there a jam?

- Remove the sheet. If the sheet is caught in the rollers, open the front cover, push down on the release lever, and gently remove the sheet.

Are the settings in the application correct?

- Recheck the printer settings in the application.

Is the printer driver correctly installed?

- Install the printer driver from the Installation Disc (CD-ROM).

Are you using the wrong cartridges?

- Use the correct cartridges. The Foilfast printer will only accept Foilfast premium foil cartridges.

Are the cartridges installed correctly?

- Insert the cartridges in the holders with the B side up.

Is the foil in one of the cartridges used up?

- When the foil in a cartridge has been used up, black and silver stripes will be visible on the ribbon. After replacing the cartridge, printing will continue from where it left off.

Has the printer been selected using the Chooser?

- From the Apple menu, select the Chooser and make sure the printer and device number appear correctly. Click on the printer name and SCSI#. (The printer may not be selected correctly if you do not click on the printer name.)

Do you have enough hard drive space?

- The Foilfast™ requires work space on the hard disk when it prints. Keep enough space open on the disk for the printer to operate. (After printing, the work space is released.)

Does the hard disk have areas where reading or writing are unreliable?

- If there are areas on the hard disk where reading or writing are unreliable, sometimes a printing error will occur and printing will stop. Periodically use the Disk First Aid utility that comes with your system software (or other commercial disk checking utility) to prevent these problems.

6. Printing is light, distorted, or has gaps**Has one of the foils separated from the head?**

- Stop the printing and reinstall all the cartridges. Take up any slack in the foil. If a particular cartridge repeatedly causes problems, try a different cartridge.

Is the head dirty?

- Clean the head by following the directions in this guide for cleaning the printer and head. The platen often gets dirty at the same time as the head, so it is recommended to clean the platen after cleaning the head.

Is the platen dirty?

- Clean the platen by following the directions in this guide. If anything is stuck to the platen, remove it, being careful not to damage the platen. The platen often gets dirty at the same time as the head so it is recommended to clean the platen as well as the head. If cleaning the head and the platen does not work, contact the Fastback dealer from whom you purchased the printer.

7. Printing is not working or is extremely slow**Is the free space on the hard disk fragmented?**

- The time required for printing can increase dramatically if the free space on the disk is extremely fragmented. Clean up your files and defragment the disk by periodically using a defragment utility.

Is enough memory allocated?

- Color printing may not be possible if the memory allocated to the application is insufficient. Allocate more memory to the application.

Are you using memory management tools or virtual memory?

- When you are using memory management tools such as RAM Doubler or virtual memory, memory may not be correctly recognized for color printing. When color printing is not working, disable these utilities and try again.

Do you have enough disk space?

- Make sure there is enough empty space on your hard disk. (The working space is released once printing is finished.) When there is just barely enough working space left on the disk, printing may take much longer than normal.

Is the application set for color printing? Does the application support color printing?

- Some applications have color printing enable/disable settings. Some applications do not support color printing. Read the manual for the application and check the color settings.

Are you using many applications at one time?

- When very little memory is available for print processing, printing may take a long time or fail. Close as many applications as possible and try again.

Do you have enough memory?

- Handling color images requires a lot of memory for the application and for the data. Sometimes there is insufficient memory left for printing. Make sure your computer has enough memory to print the size of images you are using.

8. Sheet is not feeding correctly or not ejecting correctly from the sheet feeder

Are you using a sheet that is folded or ripped?

- The Foilfast printer is compatible only with specific types of cover materials. Please see page 25, "Identifying Foil Cartridges and Cover Types," for a list of compatible cover types.

Are you using a curled sheet?

- This will cause sheet jams. The sheet should be curled the opposite way to flatten it out before it is used.

Are you using sheets with folded or cut corners?

- This causes problems since the sheet position sensor and sheet length sensor do not work properly.

Is there a sheet jam?

- Clear the jam.

Is the paper feed guide too narrow for the sheet?

- Set the feed guide so that there is approximately 0.02" between it and the sheets themselves.

Are there too many sheets in the sheet feeder?

- The sheet feeder can hold up to 10 composition covers or 1 ClearCover.

Is your cover too thick or too thin?

- Composition covers should be between 16 –18.5 points thick (.0016 – .00185 inches). Clear covers should be between 6.5 – 7.5 points thick (.0065 – .0075 inches). Covers that fall outside the bounds of these thickness ranges may work in the Foilfast printer, but Powis Parker does not recommend using them. Covers that fall substantially beyond these thickness ranges may damage the printer's feeding mechanism and may void your warranty.

Is there anything blocking the output slot (such as a large pile of printed sheets)?

- This can cause ejection or feed problems.
- Make sure nothing is on the output tray.

Have you loosened the sheets sufficiently prior to loading them into the sheet feeder?

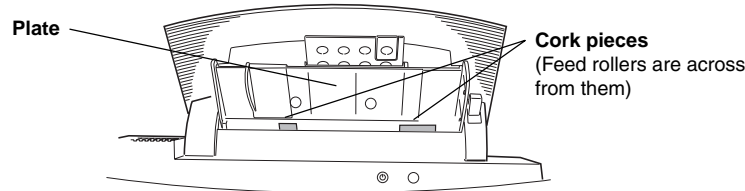
- Sheets must fanned at least once before they are loaded into the sheet feeder. If not, sheets may stick to one another, and cause multiple sheets to feed into the printer at one time, or other forms of misfeed.

Is the *error* light blinking?

- When the sheet is not fed (error light is blinking), press the *ready/insert* button.

If the sheet is not fed even by pressing the *ready/insert* button, the sheet feed roller may be dirty. Clean the feed rollers by following the procedures described below.

- (1) Turn off the printer.
- (2) The feed rollers are facing the cork pieces on the sheet feed tray, one on the left, and two on the right as you face the front cover. Wipe the feed rollers with a cotton swab dipped in water or with a soft wet rag.



- (3) Press down the plate of the feed tray as you rotate the feed rollers. Wipe each roller thoroughly. When the roller makes a turn, the plate of the sheet feed tray may stay up. However, the plate will come down when the printer is turned on.

9. Printer makes strange noises when the power is turned on, and the error lights blink

Has the carriage packing material been removed?

- Refer to Chapter 1 of this guide for detailed unpacking instructions.

Has the packing tape on the case been removed?

- Refer to Chapter 1 of this guide for detailed unpacking instructions.

Has a cartridge become dislodged from a cartridge holder?

- Open the front cover and make sure the ink cartridges are correctly installed.

Is there sheet caught between the platen and the print head?

- See the section "Clearing sheet jams" and remove the sheet.

10. Mechanism or cartridge error

Are the cartridges correctly installed?

- If a cartridge has become dislodged from the holder, a cartridge change error will occur. Open the front cover and reinstall the cartridge.

Are you using the printer on a level surface?

- The printer will not operate correctly on a slanted surface. Place it on a level, stable surface.

Is the printer in a place where it is subject to bumps or vibrations?

- Bumps and vibrations can cause mechanical problems. Place the printer in a place free from vibrations and bumping.

Is the front cover properly closed?

- The printer will not operate correctly if the front cover is not closed properly. Close the front cover all the way.

Is something sitting on top of the printer?

- The printer may malfunction when there are things stacked on top or pressing it from the side. Do not place anything on top of the printer.

Is there an obstruction in front of the output slot?

- If the output slot is obstructed, sheets ejected from the printer can fold and bend and cause a malfunction. When printing, make sure that the paper slot is unobstructed and that there is room for paper to be ejected.

Are you receiving erroneous “cartridge broken” messages?

- Remove the cartridge and manually advance the foil, then reinsert the cartridge and try again. If the message recurs, try a different cartridge.

11. Cartridges are not correctly recognized

Is the bar code on the cartridge dirty?

- Clean the bar code.

Is the cartridge installed in the holder with the (A) side up?

- Make sure the cartridges are placed in the holder with B side up.

Has a cartridge for a different printer been installed?

- Cartridges made by other manufacturers will not work. The Foilfast™ printer will only accept Foilfast premium foil cartridges.

12 Printing Quality

- There may be superfluous foil on the surface of the sheet after foil printing. Gently wipe the superfluous foil with a Kleenex or soft cloth.
- When using sheets with a rough texture, you may want to check Double Pass Printing to increase the density of the foil. When Double Pass Printing is checked, the printer prints each line twice. This check box is grayed out when Foilfast ClearCovers is selected. In the Default setting, the Double Pass printing checkbox is not checked.
- Smoother sheets will give you a better print quality.
- For printing on comp covers, try changing the Media Type setting from comp cover HIGH to comp cover LOW, or vice versa.

- The Foilfast works best with Foilfast branded covers. Other covers may work, but some may not be compatible.

13. Connection Method

Can I connect multiple printers to a single computer?

- If different SCSI device numbers are used, multiple printers can be connected to a single Macintosh. Of course, simultaneous printing is not possible.

Can I connect a single printer to multiple computers?

- No, the printer is not designed for this.

14. Other problems and operations

Is this printer compatible with PostScript?

- The Foilfast printer uses QuickDraw. It is not compatible with PostScript.

EPS files cannot be output clearly.

- EPS files are data files for PostScript printers, and the Foilfast is not a PostScript printer. Therefore, EPS files will print only as QuickDraw images at 72 dpi.

Are enlargements and reductions possible?

- Set either the enlargement or the reduction rate in the Reduce or Enlarge setting in the Page Setup dialog box. This value may be specified between 25 and 400 percent.

The preview doesn't change even though I change the reduction or enlargement.

- The preview will not change size with different reduction or enlargement settings. Check the size after printing to see that the changes took effect.

How do I uninstall the printer driver?

- Remove the Foilfast printer driver ("PPI Foilfast") from the Extensions folder in the System Folder, and remove the Foilfast Preferences file ("PPI Foilfast preferences") from the Preferences folder in the System Folder. If you have installed the Queue Kit software, and you are not going to use it with other applications, remove the Queue Monitor and Queue Watcher files from the Extensions folder in the System Folder. Restart your computer.

Can this printer be connected to Windows and Macintosh computers simultaneously?

- No, the parallel port and the SCSI port cannot be used at the same time. Connect a Macintosh computer to the printer using the Macintosh interface module, and connect a Windows computer without the module.

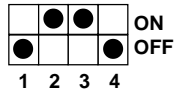
Specifications

General Specifications

Name	Foilfast™ Printer
Print head	240 dot
Printing speed	20 cps equivalent (When printing 10-cpi text)
Resolution	600 dpi
Printing area	7.43" x 12.93" maximum
Sheet feed method	Friction feed
Page width	3.85" minimum x 9" maximum
Page length	3.85" minimum x 14" maximum
Cover Types	Foilfast™ Composition Cover Foilfast™ Coated Paper Cover Foilfast™ ClearCover™
Dimensions (inches)	Approximately 18.2" (width) x 11.8" (depth) x 7.5" (height)
Weight	11 lbs. 8 oz. (5.2 kg)
Power supply	100-230 Vac 50/60Hz
Interface	Parallel, SCSI (optional), USB (optional)
Head life	250 million pulses/dots
Machine life	10,000 sheets
Noise	51 dB Maximum
Agency approvals	UL, CUL, JET, CE, FCC Class B, VCCI
Operating environment	Temperature: 15°C to 30°C (50 to 86°F) Humidity: 30% to 70% (without condensation or freezing)
Storage environment	Temperature: 5°C to 35°C (32 to 95°) Humidity: 30% to 70% (without condensation or freezing)

DIP Switches

DIP switches are used to set the SCSI ID number.



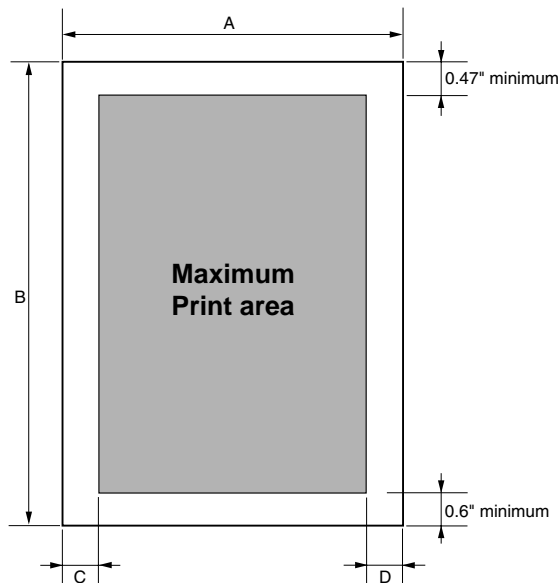
The following summarizes the settings for each SCSI device number.

1	2	3	4	SCSI No.
OFF	OFF	OFF	OFF	No. 0
ON	OFF	OFF	OFF	No. 1
OFF	ON	OFF	OFF	No. 2
ON	ON	OFF	OFF	No. 3
OFF	OFF	ON	OFF	No. 4
ON	OFF	ON	OFF	No. 5
OFF	ON	ON	OFF	No. 6
ON	ON	ON	OFF	No. 7*

—— (Factory default settings)

* SCSI device number 7 is reserved for the Macintosh itself. Device number 0 is normally assigned to the internal hard disk drive, if there is one. To be safe, use only device numbers 1 through 6.

Printable Area



Maximum Print Area:

	Physical	Page Size	Left Margin	Right Margin
Page Size	A	B	C	D
Letter	8.5"	11"	0.47"	0.94"

Available Supplies

Foilfast™ Supplies

Premium Foil Cartridges

Premium Gold Foil cartridge
Premium Silver Foil cartridge
Premium Red Foil cartridge
Premium Blue Foil cartridge
Premium Green Foil cartridge
Premium Black cartridge
Premium White cartridge
Primer cartridge ("Undercoat")

Foilfast Compatible Covers

Foilfast Composition Cover
Foilfast Coated Paper Cover
Foilfast ClearCover™

Options

SCSI Interface for Macintosh
USB Interface Kit for iMac and Windows 98

For complete document finishing, ask your dealer about Fastback document binding and the PowisPrinter™. To locate the Fastback dealer nearest you, call Powis Parker at 1-800-321-BIND.