

Phaser 5335 Printing Guide



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Preface

Thank you for purchasing the Phaser 5335.

This guide describes the software included on the Software CD-ROM and how to install and configure a PostScript print driver on your computer.

To get the most out of this printer and to use it effectively, make sure to read this guide before use.

This guide assumes you are familiar with your operating system (Microsoft® Windows® or Macintosh® Mac OS®, Linux), network environment, and the basic operation of the printer.

Conventions

The following conventions are used throughout this guide:

Square brackets ([])	Indicates the names of windows, dialog boxes, tabs, buttons, features, menus, setting items, and options that appear on your computer screen. Example • You can also browse the folder by clicking [Browse].
Greater-than sign (>)	Indicates the hierarchies of the menus, setting items, and options that appear on your computer screen. Example: • [RGB Color Temperature] can be configured when the [Paper/Output] tab > [Output Color] is set to [Color].
<i>Italic typeface</i>	Indicates references to other sections and chapters. Example: • See <i>Print Driver Properties on page 10</i> to configure the print driver.
NOTE	A statement that provides additional information. Example: NOTE: Clicking the [Defaults] button restores the defaults.

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1 Installing and Configuring the PostScript® Driver on Windows NT 4.0 / 2000 / XP / Server 2003 / Vista

This chapter contains the following information:

- About the Software
 - Included Software
 - Hardware/Software Requirements
- Installing the Print Driver
 - Installation Procedure
- Configuring the Print Driver
 - [Device Settings] tab
 - [Configuration] tab
 - [Advanced] tab
 - [Paper/Output] tab
 - [Layout] tab
- Using the Online Help

About the Software

There are two CD-ROMs delivered with your printer:

Software CD-ROM - This CD-ROM contains all the print drivers available for the printer.

Documentation CD-ROM - This CD-ROM contains all the documentation for the printer.

This section describes the software for Windows NT 4.0, 2000, Windows XP, and Windows Server 2003 included on the Software CD-ROM.

Included Software

The following items are included on the Software CD-ROM and are required to print PostScript documents from Windows NT 4.0, 2000, Windows XP, Windows Server 2003, or Windows Vista.

PPD files and print driver - The PPD files and PostScript print driver (which has added Xerox unique features to Microsoft PScript 5.0) for Windows NT 4.0, 2000, Windows XP, Windows Server 2003, and Windows Vista.

Readme.txt - Describes the precautions that must be followed when using the print driver. Be sure to read this before using the print driver.

Hardware/Software Requirements

The system requirements for the print driver for Windows NT 4.0, 2000, Windows XP, Windows Server 2003, or Windows Vista are as follows:

Computer System

Personal computer on which the Windows NT 4.0, 2000, Windows XP, Windows Server 2003, or Windows Vista is installed.

Basic Software

- Windows NT 4.0 (with SP6)
- Windows 2000 Professional
- Windows 2000 Server
- Windows 2000 Advanced Server
- Windows XP Professional Edition
- Windows XP Home Edition
- Windows XP Professional x64 Edition
- Windows Server 2003
- Windows Server 2003 x64 Edition
- Windows Vista

Installing the Print Driver

This section describes how to install the print driver on Windows NT 4.0, 2000, Windows XP, Windows Server 2003, or Windows Vista.

The following procedure uses Windows XP as an example.

Note: To cancel the installation, click [Cancel] in a dialog box displayed during the installation. To cancel the settings in a dialog box and return to the previous dialog box, click [Back].

Installation Procedure

1. Start Windows XP.
NOTE: When installing the print driver, you must log on as a Power User group member or as an administrator. Refer to the Windows XP documentation for information about the Power User group.
2. From the [Start] menu, select [Settings] and click [Printers and Faxes].
 - Windows NT 4.0 / 2000 - Start > Settings > Printers
 - Windows XP / Windows Server 2003 - Start > Printers and Faxes
 - Windows Vista - Start button > Control Panel > Hardware and Sound > Printers
3. In the [Printers and Faxes] or [Printers] window, double-click [Add Printer].
4. Click [Next].

5. If the printer is directly connected to your computer or over a network in a TCP/IP (LPD) environment, select [Local printer attached to this computer]. Otherwise, select [A network printer, or a printer attached to another computer]. After selecting the connection method, click [Next].

In this example, we will select [Local printer attached to this computer].

NOTE: When [Local printer attached to this computer] is selected, clear the [Automatically detect and install my Plug and Play printer] check box. When [A network printer, or a printer attached to another computer] is selected, specify the printer in the [Connect to printer] dialog box.

6. Select the port you want to use and click [Next].

When the printer is installed in a TCP/IP(LPD) environment:

- a. Click [Create a new port].
- b. Select [Standard TCP/IP Port] from the [Type of port] list and click [Next].
- c. Click [Next].
7. Enter the IP address of the printer in [Printer Name or IP Address] and click [Next].
Click [Finish] in the displayed dialog box.

8. Insert the Software CD-ROM into your CD-ROM drive.

9. Click [Have Disk].

10. In the [Copy manufacturer's files from:] box, enter the drive in which the CD-ROM is located (example: "E:"). After the drive name, enter "\Eng\PS\Win2000_XP" and click [OK].

NOTE: Click [Browse] to view the CD-ROM contents. Other languages available are French (\Fra\PS\Win2000_XP), Russian (\Rus\PS\Win2000_XP), and Spanish (Spa\PS\Win2000_XP).

11. From [Printers], select the model of your printer and click [Next].

12. Enter a name for your printer, specify whether to use the printer as the default printer, and click [Next].

13. Select [Do not share this printer] and click [Next].

14. Specify whether to print a test page and click [Next].

15. Click [Finish].

The installation begins.

16. Check if the printer is added to the [Printers] window.

This completes the installation of the print driver. Remove the CD-ROM from the CD-ROM drive.

To configure the print driver, see *"Configuring the Print Driver" (P. 4)*.

Store the CD-ROM in a safe place.

Configuring the Print Driver

This section describes the printer-specific features in the following tabs in the print driver properties.

- [Device Settings] tab
- [Configuration] tab
- [Advanced] tab
- [Paper/Output] tab
- [Layout] tab

Note: Refer to the online help for information about other tabs.

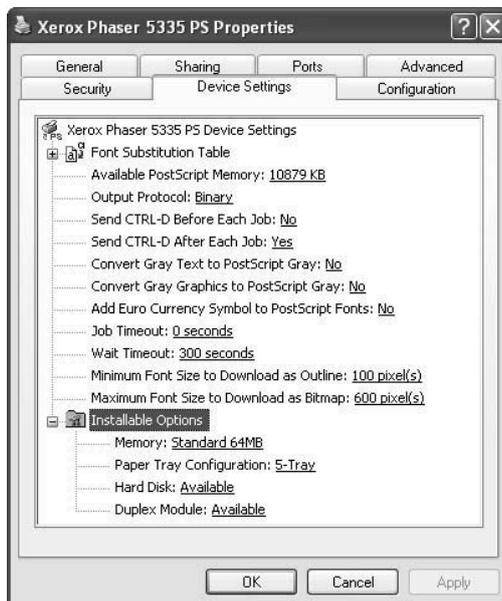
To view the [Device Settings] or [Configuration] tab, select the printer icon in the [Printers] window, and click [Properties] from the [File] menu.

To view the [Advanced], [Paper/Output], or [Layout] tab, select the printer icon in the [Printers] window, and click [Printing Preferences] from the [File] menu.

[Device Settings] Tab

The following explains [Installable Options] on the [Device Settings] tab. To print properly, make sure to correctly configure [Installable Options].

Select an item you want to configure from [Installable Options], and select its option from the menu that appears on the right.



Setting Items

Memory - Sets the memory capacity of the printer.

Paper Tray Configuration - Sets the paper tray configuration of the printer.

Hard Disk - Sets whether or not the hard disk is installed in the printer.

Duplex Module - Sets whether or not the duplex unit is installed in the printer.

[Configuration] Tab

The following explains how to configure the [Configuration] tab.



Note: Click the [Defaults] button to restore the defaults.

Setting Items

Manage Accounting - Selecting the check box uses the auditor feature.

Account Mode - Sets whether to allow all users or only the administrator to change the auditor settings.

NOTE: If the user who is logged onto the computer does not have access rights to the printer settings, [Account Mode] is grayed out and cannot be changed. When the [High Speed Printing] check box is selected, [Account Mode] is set to [Administrator] and is grayed out. Clearing the check box allows you to change the setting.

Detailed User Settings - Displays the [Detailed User Settings] dialog box.

Use Default User Settings - Sets whether or not to use the auditor settings in this dialog box every time you request a print job.

- **Specify User ID** - Sets the method of specifying a user ID.

- **User ID** - Sets a user ID with up to 32 alphanumeric characters.

NOTE: The user ID must be the same as that registered on the printer. Otherwise, your job will not be printed.

- **Password** - Sets the password for the user ID using 4 to 12 alphanumeric characters. The password is optional; you can leave it blank.

Prompt User for Settings - Selecting this check box displays the [Enter User Details] dialog box every time you request a print job. Your job will be printed if you enter the user ID and password in the dialog box.

NOTE: When the [High Speed Printing] check box is selected, [Prompt User for Settings] is grayed out and cannot be changed.

- **Display Previous User Details** - Selecting the check box saves the settings in the [Enter User Details] dialog box and displays them as the defaults the next time you display the dialog box.

- **Hide User ID (***)** - Selecting the check box hides the user ID behind asterisks.

High Speed Printing - Increases the print speed of applications that directly create PostScript files. This feature should not be used in normal circumstances.

Get Information from Printer - If the printer is networked using TCP/IP or IPX, clicking [Get Information from Printer] updates [Installable Options] on the [Device Settings] tab. Clicking the button also obtains the printer's address and displays it in [Network Address].

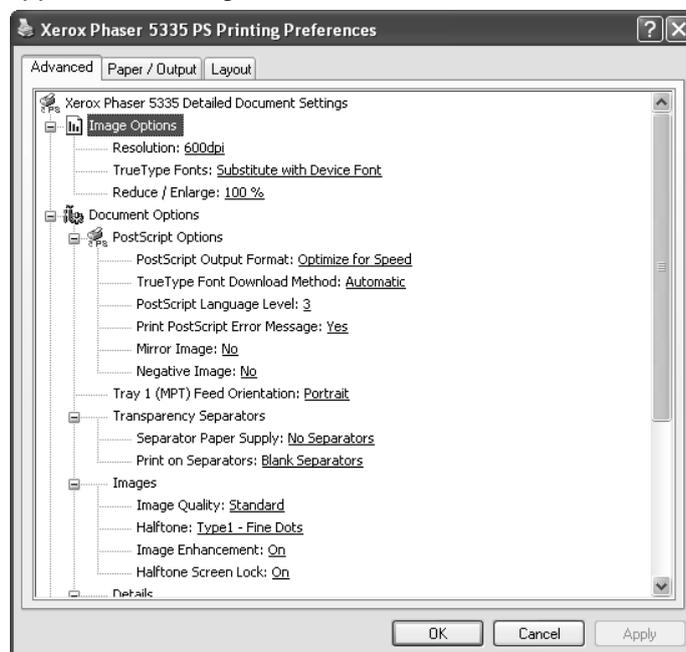
When your printer is a local printer, [Get Information from Printer] cannot be used, and you must manually set the information on the print driver.

To use this feature, enable the printer's SNMP port.

[Advanced] Tab

The following explains how to configure the [Advanced] tab in the Printing Preferences dialog box.

Select an item you want to configure, and select its option from the menu that appears on the right.



Setting Items

Transparency Separators

Separator Paper Supply - Sets the paper tray for separators when using the Transparency Separators feature. Selecting [Auto Paper Select] uses the paper tray selected on the printer.

Print on Separators - Sets whether or not to print on separators. Selecting [Blank Separators] inserts blank separators. Selecting [Printed Separators] prints the same contents printed on transparencies to separators.

Images

Image Quality - Sets the print quality of your document. [High Speed] increases print speed but decreases print quality. [High Resolution] clearly prints fine lines.

Halftone - Sets the type of halftone screen to be used when printing.

Image Enhancement - Sets whether or not to use the Image Enhancement feature. Selecting [On] artificially enhances resolution by smoothing out the edges of images. Images (bitmaps) that consist of rough dots may not be reproduced with smooth gradations. In such case, set this feature to [Off]. Selecting [On] or [Off] does not affect print speed.

Halftone Screen Lock - Sets whether or not to enable the halftone setting on the printer. Selecting [On] prioritizes the printer's halftone setting over the setting specified by an application.

Details

Image Rotation 180 Degrees - Selecting the check box rotates the landscape or portrait pages in your document by 180 degrees. When the [Layout] tab > [Multiple-Up] is set to an option other than [1 Page Up], this rotates all pages by 180 degrees.

Reverse Printing - Selecting [On] prints your document in reverse order.

NOTE: [Reverse Printing] is available only on Windows NT 4.0/2000/XP, and appears when [Enable advanced printing feature] is selected under the [Advanced] tab in the Properties dialog box. Disabling [EMF Spooling] on the [Advanced] tab in the Printing Preferences dialog box automatically sets [Reverse Printing] to [Off].

Skip Blank Pages - Sets whether or not to skip blank pages during printing.

Draft Mode - Selecting [On] uses less toner and thus the colors become lighter. Use this feature to save toner when printing documents that do not require high image quality.

Substitute Tray - Sets what action to take when the paper of the size you requested is not loaded in the printer.

- **Printer Default** - Uses the settings configured on the printer.
- **Display Message** - Displays a message on the control panel that prompts you to load the paper. Your document will not be printed until you load the paper in the printer.
- **Use Closest Size (Reduce to Fit)** - Uses the paper of the nearest size and prints the document at 100% magnification or at a reduced magnification if necessary.
- **Use Closest Size (100%)** - Uses the paper of the nearest size and prints the document at 100% magnification.
- **Use Larger Size (Reduce to Fit)** - Uses the paper of a larger size and prints the document at 100% magnification or at a reduced magnification if necessary.
- **Use Larger Size (100%)** - Uses the paper of a larger size and prints the document at 100% magnification.
- **Select Tray 1 (Bypass)** - Feeds the paper from Tray 1 (Bypass) tray when it is not loaded in the paper trays.

Custom Paper Auto Orientation - If printing on user-defined paper, selecting [On] corrects the orientation of the paper. If your document was printed 90 degrees rotated on the paper, set this feature to [On].

EMF Spooling - Sets the spooling format of your print data. Selecting [Available] spools the print data in EMF (Enhanced Meta File) format, which minimizes the processing time. Selecting [Not Available] spools the print data in RAW format, which increases the processing time as the data conversion takes time. If you experience any problem by setting this feature to [Available], set it to [Not Available].

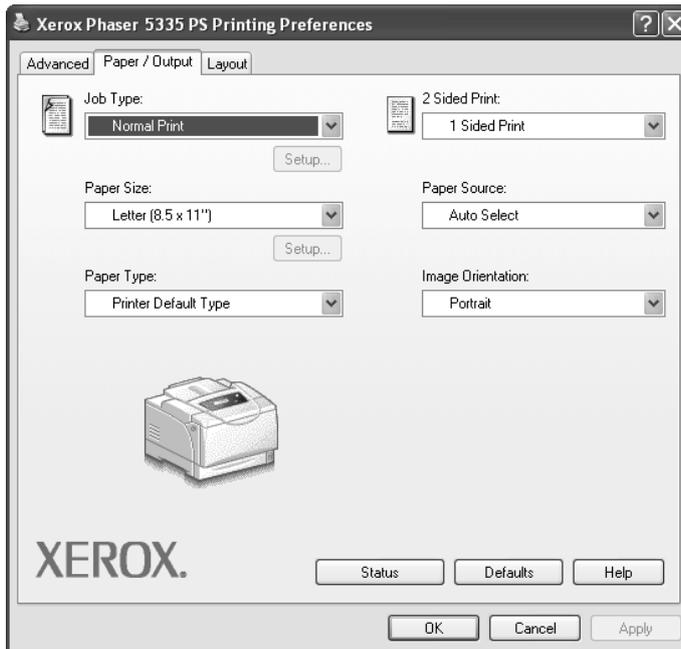
NOTE: On Windows NT 4.0/2000/XP, [EMF Spooling] appears when [Enable advanced printing feature] is selected under the [Advanced] tab in the Properties dialog box. Enabling [Reverse Printing] automatically sets [EMF Spooling] to [Available].

About - Displays the version information of the print driver.

Help - Displays the online help for the print driver.

[Paper/Output] Tab

The following explains how to configure the [Paper/Output] tab in the Printing Preferences dialog box.



Setting Items

Job Type - Sets the type of your print job to [Normal Print], [Secure Print], or [Sample Set].

Normal Print - Prints a job without using the Secure Print or Sample Set feature.

Secure Print - Temporarily stores a print job in the printer, rather than printing it immediately, until you manually start the printing from the control panel.

Sample Set - Allows you to print a proof copy of a multi-set job and prints the entire sets once the print result has been verified. If you set the print quantity to 1, this setting automatically changes to [Normal Print].

NOTE: To select [Secure Print] and [Sample Set], the [Device Settings] tab > [Hard Disk] must be set to [Available].

Setup - This button becomes active when [Job Type] is set to [Secure Print] or [Sample Set]. Clicking the button displays the [Secure Print] or [Sample Set] dialog box.

User ID - Sets the user ID for the Secure Print or Sample Set feature with up to 8 alphanumeric characters.

Password - Sets the password associated with the user ID for the Secure Print feature. The password can be up to 12 alphanumeric characters. Asterisks (***) appear instead of text as you enter the password in this text box.

NOTE: [Password] appears only on the [Secure Print] dialog box.

Retrieve Document Name - Sets the method of naming the document that will be stored in the printer using the Secure Print or Sample Set feature. [Auto Retrieve] automatically retrieves the document name from the application from which the document will be printed. If the name exceeds 12 alphanumeric characters, only the first 12 characters will be valid.

Document Name - When [Retrieve Document Name] is set to [Enter Document Name], enter the document name with up to 12 alphanumeric characters.

2 Sided Print - Sets whether to print your job 1-sided or 2-sided. When printing 2-sided, select [2 Sided] or [2 Sided, Flip on Short Edge].

Paper Size - Sets the paper size of your document.

Setup - This button becomes active when [Paper Size] is set to [PostScript Custom Size]. Clicking the button displays the [Custom Size Settings] dialog box, in which you can set a custom paper size.

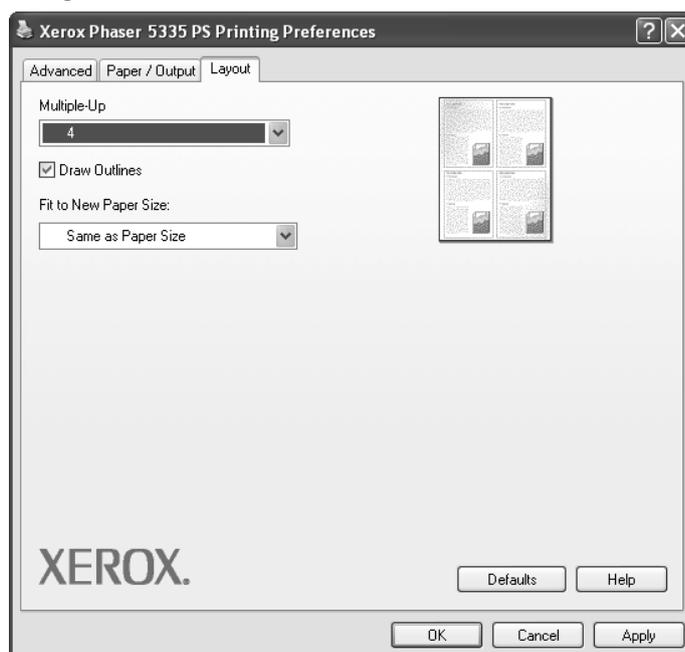
Paper Source - Sets the paper tray to be used for printing the document.

Image Orientation - Specifies the orientation to be printed. Select either [Portrait] or [Landscape].

Paper Type - Sets the type of paper to be used for printing your document. Selecting [Printer Default Type] uses the paper type selected on the printer.

[Layout] Tab

The following explains how to configure the [Layout] tab in the Printing Preferences dialog box.



Setting Items

Multiple-Up - Prints multiple pages onto one sheet of paper.

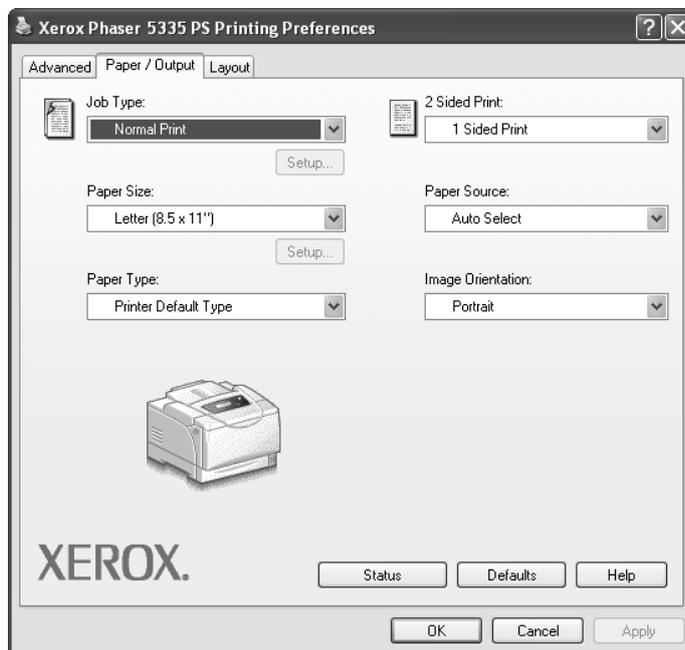
NOTE: [Multiple-Up] is displayed only when the [Device Settings] tab > [Duplex Module] is set to [Available] and the [Advanced] tab > [Enable advanced printing feature] is selected.

Draw Outlines - Prints a border around each page when using the [Multiple-Up] feature.

Fit to New Paper Size - Sets the size of the output paper. When this setting is different from [Paper Size] on the [Paper/Output] tab, your document will be reduced/enlarged to fit to the paper size selected here.

Using the Online Help

The following explains how to use the online help.



1. Click the  button on the print driver dialog box. The [?] mark appears next to your mouse pointer. Then, click an item you need help with. The description of the item pops up. When you are finished reading the description, click anywhere on the pop-up window to close it.
2. Click the [Help] button on the print driver dialog box. The description of the tab that is currently displayed appears.

2 Installing and Configuring the PostScript Driver on Macintosh

This chapter contains the following information:

- About the Software
 - Included Software
 - Hardware/Software Requirements
- Installing the Print Driver
 - Installation Procedure
- Configuring the Print Driver
 - [Device Settings] tab
 - [Configuration] tab
 - [Advanced] tab
 - [Paper/Output] tab
 - [Layout] tab

Hardware/Software Requirements

The system requirements for the Macintosh print driver is as follows.

Operating System

- Mac OS X version 10.3.9 to 10.4.7 (*1)
- (*1): Operating system requirement and specification may change without prior notice. Please refer to the Xerox home page.

Interface

- USB*2
 - Ethernet (compatible protocol: LPR, Bonjour (Rendezvous))
- (*2): USB interface is required as standard

Installing the Print Driver

Prerequisites (for use in Network environment)

To use this printer in a Network environment via Ethernet connection, ensure the following settings are in place before installing the print driver.

On Macintosh	On the machine
IP address settings and TCP/IP settings in [System Preferences] window are set up.	<ul style="list-style-type: none">• IP address is set up• LPD protocol is enabled. (Factory default: Enable)• Bonjour protocol is enabled. (Only when Bonjour is used: Factory default: Enable)

NOTE: • For details on setting up the printer, refer to the printer manual.
• For details on configuring Macintosh, refer to the Macintosh manual.

Downloading the Print Driver

Please download the Mac OS X print driver from the Xerox website to your Macintosh.

Installer	File name	Description
Print Driver	XeroxPhaser5335_Print_Installer.dmg	Print Driver for Macintosh

The Xerox home page URL: <http://www.support.xerox.com>

Installation Procedure

The two procedures that follow detail how to install the downloaded print driver or the print driver available on the Software CD-ROM.

Downloaded Driver Installation Procedure

Install the downloaded Macintosh print driver onto your Macintosh.

Important: To install print driver on Mac OS X, please log in as an Administrator.

1. Double-click the [XeroxPhaser5335_Print_Installer.dmg] icon.
2. Double-click the [XeroxPhaser5335 Print Installer] program icon to launch the installer.
3. The [Authenticate] screen appears. Type the passcode and click [OK].
4. The XeroxPhaser5335 Print Installer window displays. Click [Continue].
5. Read the contents in the [Software License Agreement] screen and click [Continue].
6. Click [Agree].
7. Select the destination for installation and click [Continue].
8. Click [Install]. Installation begins.

9. Once the screen that indicates the completion of installation appears, click [Quit].
Installation of print driver is completed. Proceed to the "Adding Printer" section.

Software CD-ROM Driver Installation Procedure

Install the Macintosh print driver from the Software CD-ROM onto your Macintosh.

Important: To install print driver on Mac OS X, please log in as an Administrator.

1. Insert the Software CD-ROM into your CD-ROM driver. The [Phaser5335] icon appears on your desktop.
2. Double-click the [Phaser5335] icon. The [Phaser5335] window appears.
3. Double-click the [Mac OS X] icon. The [Mac OS X] window appears.
4. Double-click the [XeroxPhaser5335_Print_Installer.dmg] icon.
5. Double-click the [XeroxPhaser5335 Print Installer] program icon to launch the installer.
6. The [Authenticate] screen appears. Type the passcode and click [OK].
7. The XeroxPhaser5335 Print Installer window displays. Click [Continue].
8. Read the contents in the [Software License Agreement] screen and click [Continue].
9. Click [Agree].
10. Select the destination for installation and click [Continue].
11. Click [Install]. Installation begins.
12. Once the screen that indicates the completion of installation appears, click [Quit].
Installation of print driver is completed. Proceed to the "Adding Printer" section.

Adding a Printer (OS X 10.3)

Add this printer in the [Printer List] window.

1. Check that the printer is on.
If you are using the USB connection, make sure your Macintosh and the printer is connected properly via USB cable.
2. Open the [Applications] folder, followed by the [Utilities] folder, and then double-click the [Printer Setup Utility] icon.
The [Printer List] window appears.
3. Follow the procedure below to add this printer to the [Printer List] window.

For USB connection

NOTE: Once the USB cable is connected and the printer is on, this printer will be added automatically to the list. If this happens, delete the printer manually and follow the procedure below to add the printer.

1. Click [Add] on the [Printer List] window.
2. On the pop-up menu sheet displayed, select [USB] and then select the Phaser 5335 from the list.
3. Make sure this print driver is selected on the [Printer Model] pop-up menu. If it does not appear, select [Xerox] from the pop-up menu, and then select this printer from the list of model names displayed.
4. Click [Add].
5. Make sure this printer is added to the [Printer List] window. After that, change the configuration settings for options according to the description in "[Printer Info] window" (P. 19) when the options are installed. If the options are not installed, close the [Printer List] window.

For LPR connection

1. Click [Add] on the [Printer List] window.
2. Select [IP Printing] from the pop-up menu of the displayed sheet.
3. Select [LPD/LPR] from the [Printer Type] pop-up menu, and then type the IP address of this printer in [Printer Address].
4. Select [Xerox] from the [Printer Model] pop-up menu. Select this printer from the list of model names displayed and then click [Add].
5. Make sure this printer is added to the [Printer List] window. After that, change the configuration settings for options according to the description in "[Printer Info] window" (P. 19) when the options are installed. If the options are not installed, close the [Printer List] window.

For Rendezvous (Bonjour) connection

1. Click [Add] on the [Printer List] window.
2. Select [Rendezvous] from the pop-up menu of the displayed sheet. Select this printer from the list.
3. Make sure this print driver is selected on the [Printer Model] pop-up menu.
4. Click [Add].
5. Make sure this printer is added to the [Printer List] window. After that, change the configuration settings for options according to the description in "[Printer Info] window" (P. 19) when the options are installed. If the options are not installed, close the [Printer List] window.

The printer is now ready for use on Mac OS X 10.3.

You can simply use the [Print] command on your software applications to send a print job to this printer.

Adding a Printer (OS X 10.4)

Add this printer in [Printer List] window.

1. Check that the printer is on.
If you are using a USB connection, make sure your Macintosh and the printer is connected properly via USB cable.
2. Open the [Applications] folder, followed by the [Utilities] folder, and then double-click on [Printer Setup Utility] icon.
The [Printer List] window appears.
3. Follow the procedure below to add this printer to the [Printer List] window.

For USB and Bonjour connection

NOTE: Once the USB cable is connected and the printer is on, this printer will be added automatically to the list. If this happens, delete the printer manually and follow the procedure below to add the printer.

1. Click [Add] on the [Printer List] window.
2. Click [Default Browser] on the [Printer Browser] window.
3. Select this printer from the list. (Check if [USB] or [Bonjour] is shown under [Connection].)
4. Make sure this print driver is selected on the [Print Using] pop-up menu.
If it does not appear, select [Xerox] from the pop-up menu, and then select this printer from the list of model name that is displayed.
5. Click [Add].
6. Make sure this printer is added to the [Printer List] window.

For LPR connection

1. Click [Add] on the [Printer List] window.
2. Click [IP Printer] on the [Printer Browser] window.
3. Select [Line Printer Daemon - LPD] on the [Protocol] pop-up menu and enter the IP address in [Address].
4. Make sure this print driver is selected on the [Print Using] pop-up menu.
If it does not appear, select [Xerox] from the pop-up menu, and then select this printer from the list of model name that is displayed.
5. Click [Add].

6. On the displayed sheet, specify the options that are installed and click [Continue].
If no option is installed, click [Continue] without making any changes.
7. Make sure this printer is added to the [Printer List] window.

The printer is now ready for use on Mac OS X 10.4.

Use the [Print] command on your software applications to send a print job to this printer.

[Printer Info] window

You can specify installable options.

1. On Mac OS X 10.2.8, click [Printers] on the [Print Center] menu and select [Show Info].
On Mac OS X 10.3.9 and 10.4, click [Printers] on the [Printer Setup Utility] menu bar, and select [Show Info].
2. Select [Installable Options] and set the options installed on the printer.

List of setting items

[Memory]

Sets the memory capacity of the printer.

[Paper Tray Configuration]

Sets the paper tray configuration

[Hard Disk]

Sets whether or not the hard disk is installed in the printer

[Duplex Module]

Sets whether or not the duplex unit is installed in the printer.

[Print window]

Specify the settings for the print job.

List of setting items

[Printer]

Select the printer at the output destination.

[Presets]

Saves the common print job settings to be used for future print jobs. Select [Save As...] to save the settings. Once selected, the print job will be printed in the saved print job settings.

You can edit or delete the registered contents.

NOTE: Selecting [Standard] will reset all values to their respective defaults.

Switching items displayed

Switch the setting items that are displayed in the Print window.

Select any of the following categories to display the setting items under that category.

- "[Copies & Pages] window" (P. 20)
- "[Layout] window" (P. 21)
- "[Output Options] window (for OS X 10.3 only)" (P. 21)
- "[Scheduler] window" (P. 22)
- "[Paper Handling] window" (P. 22)
- "[Cover Page] window (for OS X 10.4 only)" (P. 23)
- "[Job Control] window" (P. 24)
- "[Job Type] window" (P. 25)
- "[Printer Features] window" (P. 26)

[Copies & Pages] window

This window appears when [Copies & Pages] is selected in "*Switching items displayed*" (P. 20).

Specify the number of copies and the pages to print.

List of setting items

[Copies]

Specify the number of copies to print.

[Collated]

Specify the collation setting.

Select the check box to enable this feature.

[Pages]

Specify the pages to print.

Select [All] to print all pages.

Alternatively, specify the range of pages to print by entering the page number in [From:] and [to:].

[Layout] window

This window appears when [Layout] is selected in "*Switching items displayed*" (P. 20).

You can specify the layout of the document to print.

List of setting items

[Pages per Sheet]

Prints 2, 4, 6, 9 or 16 consecutive pages of the document on a single page of paper.
You can verify your setting on the image displayed on the left.

[Layout Direction]

Specify the order in which the images are allocated on the physical page when [Pages per Sheet] is selected.

You can verify your setting on the image displayed on the left.

[Border]

Specify whether to add a border for each logical page on the paper when [Pages per Sheet] is selected.

You can verify your setting on the image displayed on the left.

[Two Sided Printing] (for OS X 10.3) / [Two-Sided] (for OS X 10.4)

Performs 2 sided printing.

You can perform 2 sided printing with [Long-edged binding] or [Short-edged binding].

You can verify your setting on the image displayed on the left.

[Output Options] window (for OS X 10.3 only)

This window appears when [Output Options] is selected in "*Switching items displayed*" (P. 20).

Set up this option if you are not producing the print job on paper.

List of setting items

[Save as File]

Specify whether to send the print job to the printer or save it to file.

When the check box is selected, the [Print] button will change to [Save...] button.

Click the [Save...] button to display the [Save As] dialog box. Specify the file name and the destination, and save the print job to file.

If the check box is not selected, the print job will be sent for printing on paper.

[Format]

To save the print job as file, specify the format.

[Scheduler] window

This window appears when [Scheduler] is selected in *"Switching items displayed"* (P. 20).

Specify the time to print the document and the priority of the document.

List of setting items

[Print Document]

Specify the time to print the document.

Select [Now], [At], or [On Hold].

If [Now] is selected, click the [Print] button to print the document.

If [At] is selected, specify a time to print the document later.

If [On Hold] is selected and the [Print] button is activated, the print job will be put on hold.

[Priority]

Specify the output priority.

When there are multiple documents to be printed, document with higher priority will be printed first.

Select [Urgent], [High], [Medium], or [Low].

[Paper Handling] window

This window appears when [Paper Handling] is selected in *"Switching items displayed"* (P. 20).

Specify the order in which the pages are printed and the pages to print.

NOTE: The contents displayed maybe different depending on the version of your operating system.

For Mac OS X 10.3

List of setting items (for OS X 10.3)

[Reverse page order]

Specify order in which the pages are printed.

If the check box is selected, the pages will be printed in reverse order.

[Print]

Specify the pages to print.

For Mac OS X 10.4

List of setting items (for OS X 10.4)

[Page Order]

Specify order in which the pages are printed.

Select [Automatic], [Normal], or [Reverse].

When [Automatic] is selected, the pages will be printed in the normal order.

When [Normal] is selected, the pages will be printed in the normal order.

When [Reverse] is selected, the pages will be printed in the reverse order.

[Print]

Specify the pages to print.

Select [All Pages], [Odd numbered pages], or [Even numbered pages].

[Destination Paper Size]

Specify the actual output paper size apart from that specified in [Paper Size] under "[Print window]" (P. 20).

Select either [Use documents paper size] or [Scale to fit paper size].

If [Use documents paper size] is selected, the size specified in [Paper Size] under "[Print window]" (P. 20) will be used for printing.

The current paper size is displayed on the right of the radio button.

If [Scale to fit paper size] is selected, the job will be printed on the paper size specified

[Scale down only]

Specify whether to enlarge the image when the [Destination Paper Size] and the document paper size indicated in [Paper Size] under "[Print window]" (P. 20) are different.

If the check box is selected and the size specified in [Destination Paper Size] is larger than that specified in [Paper Size] under "[Print window]" (P. 20), the document will be printed in its document paper size indicated in [Paper Size] under "[Print window]" (P. 20).

If the check box is not selected, the document will be enlarged up to the size specified in [Destination Paper Size].

If the [Destination Paper Size] is smaller, the document will be reduced to fit the size specified in [Destination Paper Size] and printed regardless of the [Scale down only] check box setting.

[Cover Page] window (for OS X 10.4 only)

This window appears when [Cover Page] is selected in "*Switching items displayed*" (P. 20).

Specify the settings for cover page.

List of setting items

[Print Cover Page]

Specify whether to add a cover page to the document to be printed.

Select [None], [Before document], or [After document].

[Cover Page Type]

Select the contents to be printed on the cover page.

NOTE: You can choose to add the cover page before or after the document by selecting [Before document] or [After document] under [Print Cover Page].

[Billing Info]

Enter any text to be printed on the cover page.

[Job Control] window

This window appears when [Job Control] is selected in "*Switching items displayed*" (P. 20).

Specify the settings for cover page.

List of setting items

[Account Mode]

Select whether to allow general users to modify user authentication settings in the [Detailed User Settings] dialog box or restrict general users to use only the user authentication settings set up by the Administrator.

Select either [Administrator] or [User].

[User Settings] button

Displays "*[User Settings] window*" (P. 24).

You can configure various settings for user authentication during printing.

[User Settings] window

This window appears when you click the [User Settings] button.

You can configure various settings for user authentication during printing.

List of setting items

Use Default User Details / Prompt User for Settings

Specify the method used to enter the authentication details.

If you have selected [Use Default User Details], the authentication details specified in the [User Settings] window will be used for printing.

If you have selected [Prompt User for Settings], the [Enter User Details] dialog box will appear prior to printing. Printing will start only after authentication details such as Job Owner Name and Passcode are entered.

Specify Job Owner Name

Select the method to specify Job Owner Name.

If [Use Login Name] is selected, the login name of the current user will be used as the Job Owner Name.

If [Enter Job Owner Name] is selected, the name entered in [User ID] will be used for login.

[Job Owner Name]

Enter the User ID that identifies the user who has sent a print job.

You can enter up to 32 alphanumeric characters.

Important: If [Passcode] is specified, make sure the User ID entered is registered on the machine. Confirm the User ID with your machine administrator. If User ID and Passcode do not match those registered on the machine, the print job will fail to print.

[Passcode]

Set up a passcode for the User ID specified.

Enter 4 to 12 alphanumeric characters to set up as the passcode.

Important: The passcode must be the same as the one registered on the machine. If you have entered a wrong passcode, your job will not be printed. Confirm the passcode with your machine administrator.

[Job Type] window

This window appears when [Job Type] is selected in *"Switching items displayed"* (P. 20).

Specify the type of job to print.

List of setting items

[Job Type]

Select from [Normal Print], [Secure Print] and [Sample Set].

If [Normal Print] is selected, the print job will be processed normally.

If [Secure Print] is selected, the document to be printed will be saved in the printer's hard disk.

Set up the User ID, document name, and passcode (optional), and save the document to the printer for printing.

If [Sample Set] is selected to print multiple copies of the document, only one set of the document will be printed first.

The remaining sets of document will be saved in the printer's hard disk under the User ID and document name specified here.

Important: [Secure Print] and [Sample Set] are available only when the [Hard Disk] check box on *"[Printer Info] window"* (P. 19) is selected.

[User Name]

Specify the User Name for Secure Print and Sample Set.

You can enter up to 8 alphanumeric characters.

NOTE: This setting is available when either [Secure Print] or [Sample Set] is selected for [Job Type].

[Enter a 0 to 12 Digit Secure Print Passcode]

Specify the passcode for Secure Print.

You can enter up to 12 numeric characters as the passcode.

If none is entered, no passcode will be set up.

NOTE: This setting is available when [Secure Print] is selected for [Job Type].

[Document Name]

Specify the type of document name for Secure Print and Sample Set.

Select [Enter Document Name] or [Use Existing Name].

If [Use Existing Name] is selected, the name of the printing document becomes the document name.

If [Enter Document Name] is selected, the text entered in [Document Name] becomes the document name.

NOTE: This setting is available when either [Secure Print] or [Sample Set] is selected for [Job Type].

[Printer Features] window

This window appears when [Printer Features] is selected in *"Switching items displayed"* (P. 20).

Set up the individual features of the printer.

The displayed items vary depending on the options installed on the printer. Make sure to set these items after configuring [Installable Options].

List of setting items

[Resolution]

Sets the print resolution to [1200dpi] or [600dpi]. [1200dpi] achieves better print quality than [600dpi], but may take longer to print.

NOTE: On Macintosh OS X, [Resolution] appears when [Feature Sets] is set to [Set 1].

[Tray 1 (MPT) Feed Orientation]

Sets the orientation of the paper when printing from Tray 1 (Bypass). When loading the paper with one of the short edges facing into Tray 1, select [Portrait]. When loading the paper with one of the long edges facing into Tray 1, select [Landscape]. If the orientation can only be one way or the other depending on the paper size, the actual orientation of the paper overrides this setting.

NOTE: On Macintosh OS X, [Tray 1 (MPT) Feed Orientation] appears when [Feature Sets] is set to [Set 1].

[Collated]

Sets whether or not to collate multiple page documents.

NOTE: On Macintosh OS X, [Collated] appears when [Feature Sets] is set to [Set 1].

[Paper Type]

Sets the paper type to be use when printing. [Printer Default Type] uses the paper type selected on the printer.

NOTE: On Macintosh OS X, [Paper Type] appears when [Feature Sets] is set to [Set 1].

[Separator Paper Supply]

Sets the paper tray for separators when using the Transparency Separators feature. Selecting [Auto Paper Select] uses the paper tray selected on the printer.

NOTE: On Macintosh OS X, [Separator Paper Supply] appears when [Feature Sets] is set to [Set 1].

[Print on Separators]

Sets whether or not to print on separators. Selecting [Off] inserts blank separators. Selecting [On] prints the same contents printed on transparencies to separators.

NOTE: On Macintosh OS X, [Print on Separators] appears when [Feature Sets] is set to [Set 1].

[Substitute Tray]

Sets what action to take when the paper of the size you requested is not loaded in the printer.

Printer Default - Uses the settings configured on the printer.

Display Message - Displays a message on the control panel that prompts you to load the paper. Your document will not be printed until you load the paper in the printer.

Use Closest Size (Reduce to Fit) - Uses the paper of the nearest size and prints the document at 100% magnification or at a reduced magnification if necessary.

Use Closest Size (100%) - Uses the paper of the nearest size and prints the document at 100% magnification.

Use Larger Size (Reduce to Fit) - Uses the paper of a larger size and prints the document at 100% magnification or at a reduced magnification if necessary.

Use Larger Size (100%) - Uses the paper of a larger size and prints the document at 100% magnification.

Select Tray 1 (Bypass) - Feeds the paper from the Tray 1 (Bypass) when it is not loaded in the paper trays.

NOTE: On Macintosh OS X, [Substitute Tray] appears when [Feature Sets] is set to [Set 1].

[Custom Paper Auto Orientation]

If printing on user-defined paper, enabling this feature corrects the orientation of the paper. If your document was printed 90 degrees rotated on the paper, select the check box.

NOTE: On Macintosh OS X, [Custom Paper Auto Orientation] appears when [Feature Sets] is set to [Set 2].

[Image Enhancement]

Sets whether or not to use the Image Enhancement feature. Enabling this feature artificially enhances resolution by smoothing out the edges of images. Images (bitmaps) that consist of rough dots may not be reproduced with smooth gradations. In such case, leave this check box blank. Enabling or disabling this feature does not affect print speed.

NOTE: On Macintosh OS X, [Image Enhancement] appears when [Feature Sets] is set to [Set 2].

[Draft Mode]

Enabling this feature prints with less toner and thus the colors become lighter. Use this feature to save toner when printing documents that do not require high image quality.

NOTE: On Macintosh OS X, [Draft Mode] appears when [Feature Sets] is set to [Set 2].

[Skip Blank Pages]

Sets whether or not to skip blank pages during printing.

NOTE: On Macintosh OS X, [Skip Blank Pages] appears when [Feature Sets] is set to [Set 2].

[Halftone Screen Lock]

Sets whether to enable or disable the halftone setting on the printer. Enabling this feature prioritizes the halftone setting on the printer over the setting specified from an application.

NOTE: On Macintosh OS X, [Halftone Screen Lock] appears when [Feature Sets] is set to [Set 2].

[Image Quality]

Sets whether to print in [Standard] or [High Resolution] mode.

NOTE: On Macintosh OS X, [Image Quality] appears when [Feature Sets] is set to [1 Graphics].

[Halftone]

Sets the type of halftone screen to be used when printing.

NOTE: On Macintosh OS X, [Halftone] appears when [Feature Sets] is set to [1 Graphics].

3 Installing and Configuring the PostScript Driver on Linux

This chapter contains the following information:

- About the Software
 - Included Software
 - Hardware/Software Requirements
- Installing the Print Driver
 - Installation Procedure
- Configuring the Print Driver
 - [Device Settings] tab
 - [Configuration] tab
 - [Advanced] tab
 - [Paper/Output] tab
 - [Layout] tab
- Using the Online Help

NOTE: This manual uses the operations of Turbolinux 10 F as examples. For other systems, the displays may be different.

NOTE: This manual uses the operations of ApeosPort-II C4300 as examples. For other devices, the displays may be different.

Before Installing the Print Driver

Check the following contents before installing the print driver.

Environments Confirmed for Operation

Environments that are confirmed for the operations of the Linux print driver are as follows. This print driver uses CUPS (Common UNIX Printing System) as the printing system.

Distribution and CUPS Version (*1)

- RedHat Enterprise Linux WS Version 4 : CUPS Version 1.1.22rc1
- Turbolinux 10 F.: CUPS Version 1.1.19
- Turbolinux FUJI.: CUPS Version 1.1.23
- SUSE Linux 9.3 Professional : CUPS Version 1.1.23
- SUSE Linux 10.1 : CUPS Version 1.1.23

NOTE: (*1): For details on the newest operating environment, refer to readme.txt.

Hardware Environment

- PC
A personal computer installed with a x86-compatible, 32-bit CPU and operated by various distributions
- Memory capacity
Compliant with the specifications recommended by the distribution (at least 512MB for Turbolinux, and 256 MB for RedHat Enterprise Linux)

Interface

- Parallel
- USB (*2)
- Ethernet (supported protocol: LPR (TCP/IP))

NOTE: (*2): The USB interface must be equipped as the standard. (However, this does not include the warranty of all operations of devices supporting USB.)

Checking the Network Environment

Check the following settings before installing the print driver when using the device in a network environment (LPR protocol) connected by Ethernet:

At the computer	At the device
Settings for IP address, and for using TCP/IP environment are configured.	<ul style="list-style-type: none">• IP address is set• LPD protocol is enabled (Factory default: Enable)

- The device settings can be checked by printing the Functions Setting List.
- For details on the Functions Setting List, refer to the manual that comes with the device.
- For details on the way to configure the computer, refer to the manual that comes with the computer.

Installing the Print Driver

An installer (RPM package) for this printer is provided for the installation of the Linux print driver on the computer. You can use this installer to install and upgrade the print driver.

After installing the print driver, create the print queue.

Downloading the Installer

There are two types of installer (RPM package), as follows. You can download these files from the Xerox website to your computer.

Installer	File Name	Remarks
Print driver	Xerox-Phaser-5335-x.x.x.noarch.rpm	The software of the Linux print driver.

NOTE: X.X-X stands for the version of the installer.

The URL of the Xerox website where you can locate and download the printer driver follows.

<http://www.support.xerox.com>

Installing / Upgrading the Print Driver

From the command line of the terminal software, specify the RPM package to install or upgrade the print driver.

NOTE: The procedure to newly install a print driver is explained here as an example. To upgrade an installed print driver, replace “-ivh” in the rpm command options with “-Uvh” in steps 3 and 5.

1. Activate the terminal, and log in as a super user.

NOTE: Activation method of the terminal varies with the distribution. Refer to the manual of each distribution.

2. If necessary, shift the current directory to the directory with the saved RPM package.

NOTE: When operating on a directory that is different from the directory with the saved RPM package, specify the path up to the RPM package for steps 3 and 5.

3. To install the print driver itself, enter the following command (where “x.x-x” is the installer version).

```
# rpm -ivh Xerox-Phaser-5335-x.x.x.noarch.rpm
```

The following screen is displayed and the installation of the print driver itself is completed.

```
# rpm -ivh Xerox-Phaser-5335-x.x.x.noarch.rpm
Preparing...##### [100%]
1:fxlinuxprint##### [100%]
#
```

4. To reload and restart CUPS, enter the following commands.

```
# /etc/init.d/cups reload
# /etc/init.d/cups restart
```

NOTE: Depending on the distribution, the reload and restart commands may be entered as follows. For details, refer to the manual of the various distributions.

```
# /etc/rc.d/init.d/cups reload
# /etc/rc.d/init.d/cups restart
```

Next, proceed to "Setting the CUPS Password (For SUSE Only)" (next item) if you are using SUSE (CUPS Version 1.1.23 and later) and to "Creating a Print Queue (P. 33)" for the rest.

Setting the CUPS Password (For SUSE Only)

To use SUSE (CUPS Version 1.1.23 and later), execute the following commands on the terminal hardware and set the CUPS password beforehand.

1. Activate the terminal and log in as a super user.

NOTE: Activation method of the terminal varies with the distribution. Refer to the manual of each distribution.

2. Enter the following command.

```
# lppasswd -g sys -a root
```

3. Enter the CUPS password.

```
Enter Password:
Enter Password again:
#exit
exit
```

Next, proceed to "Creating a Print Queue" (next item).

When requested for a password in step 5 of the following procedure, "Creating a Print Queue", enter the password configured here.

Creating a Print Queue

To use the printer in Linux environment, you must create a print queue after installing the print driver.

NOTE: The following procedure explains how to create a print queue from the CUPS web management site (<http://localhost:631/>) using a web browser.

1. Check that the device is switched on.
When using parallel and USB connection, check also that the computer and the device is correctly connected by interface cable.
2. Activate a web browser, and enter the following URL at the address column to access the CUPS web management site.

```
http://localhost:631/
```

NOTE: Depending on the distribution used, the screen characters may get garbled. When it happens, select from the [View] menu, [Encoding] and check the encoding that is selected. You need to do this when toggling the page.

The CUPS web management site is displayed.

3. Click [Printers] or [Manage Printers].
4. Click [Add Printer].
5. When requested, enter the user name (root) and password (CUPS password for SUSE) for administrator.
6. Enter the various items for [Name], [Location] and [Description], and click [Continue].
NOTE: You can enter any thing for [Location] and [Description].
7. Depending on the connection type, add printer according to one of the following procedures.
 - "*LPR Connection (P. 34)*"
 - "*USB or Parallel Connection (P. 34)*"

LPR Connection

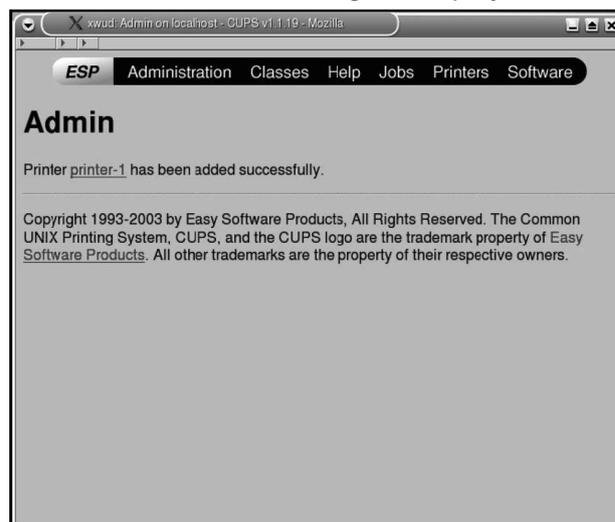
1. From the [Device] menu, select [LPD/LPR Host or Printer], and click [Continue].
2. Enter “lpd://(printer IP address) / (queue name)” at [Device URI], and click [Continue].

The following graphic illustrates the entry when the printer IP address is “192.168.1.100” and the queue name, “queue_1”.

NOTE: Enter any name for the queue name.



3. Select [Xerox] from [Make], and click [Continue].
4. Select the driver to be used from [Model], and click [Continue].
5. Check that the next message is displayed in the following screen.



The print queue is created.

USB or Parallel Connection

1. From the [Device] menu, select [USB Printer #1] or [Parallel Port #1] according to the connection method, and click [Continue].

NOTE: When activating a computer that is switched on and connected to the printer by USB or parallel cable, the printer name is displayed after [USB Printer #1] or [Parallel Port #1]. Select them.

“1” of “#1” may differ according to the environment used.

2. Select [Xerox] from [Make], and click [Continue].
3. Select the driver to be used from [Model], and click [Continue].
4. Check that the next message is displayed in the following screen.
The print queue is created.

Uninstalling the Print Driver

Use the installer (RPM package) explained in the previous section to uninstall a print driver that has been installed.

After uninstalling the print driver, delete the print queue too.

To Uninstall the Print Driver

Specify the RPM package from the command line of the terminal software to uninstall.

1. Activate the terminal and log in as super user.
NOTE: Activation method of the terminal varies with the distribution. Refer to the manual of each distribution.
2. If necessary, shift the current directory to the directory with the saved RPM package.
NOTE: When operating on a directory that is different from the directory with the saved RPM package, specify the path up to the RPM package for steps 3 and 4.
3. To uninstall the print driver itself, enter the following command (where "x.x.x-x" is the installer version).

```
# rpm -e Xerox-Phaser-5335-x.x.x.noarch
```

The print driver is uninstalled.

Next, proceed to *"To Delete the Print Queue" (P. 36)*.

To Delete the Print Queue

After deleting the print driver, delete also the unnecessary print queue.

NOTE: The following procedure explains how to delete a print queue from the CUPS web management site (<http://localhost:631/>) using a web browser.

1. Activate a web browser, and enter the following URL at the address column to access the CUPS web management site.

```
http://localhost:631/
```

NOTE: Depending on the distribution used, the screen characters may get garbled. When it happens, select from the [View] menu, [Encoding] and then select the appropriate encoding. You need to do this when toggling the page.

The CUPS web management site is displayed.

2. Click [Printers] or [Manage Printers].
3. Click [Delete Printer] under the printer (print queue) to be deleted.
4. As a confirmation message is displayed, click [Continue].
5. Check that the next message is displayed in the following screen.
The print queue is deleted.

Printer Settings

There are two methods to set up the printer:

- from the CUPS Web management site (<http://localhost:631/>) through a Web browser
- from the Printer setting screen using the prepared application.

Printer Setting (Setting from the CUPS Web Management Site)

1. Access the CUPS Web Management Site, and click [Printers] or [Manage Printers].
2. Click [Configure Printer].
3. If you are prompted to enter a username and password, type user name for administrator name (usually "root") and password (CUPS password in case of SUSE, and RedHatES4).
4. The Printer setting screen appears. Set up the printer.

Printer Setting (Setting from Application)

NOTE: For printer setting from application, interfaces may be different depending on applications. This section describes how to set the printer using "Kwrite" dialog as an example.

1. Select [Print] from the [File] menu and open the [Print] dialog.
2. Select CUPS from [Print system currently used:] setting items and click [Properties].
3. The [Properties] dialog appears. Click the [Driver Settings] tab. The window displaying the printer settings appears. Set up the printer.
4. If the application has no [Driver Settings] tab, the printer cannot be set up from the application. In this case, set up the printer from the CUPS Web management site.

Printer Driver Setting Items

This section describes the printer driver setting items.

Printer Driver Setting Items

The printer driver settings consist of the following groups.

- [Graphics]
- [Extra]
- [General]
- [JCL]
- [Options Installed]
- [Banner]
- [PSBinary Protocol]

[Graphics] Setting

The options are listed in the table below.

Name	Control
Halftone	Drop-down menu
Image Quality	Drop-down menu

[Halftone] Drop-down Menu

The options are listed in the table below.

Option	Default
Type 1 – Fine Dots	◆
Type 1 – Thick Dots	
Type 3 – Fine Dots	
Type 3 – Thick Dots	

[Image Quality] Drop-down Menu

The options are listed in the table below.

Option	Default
Standard	◆
High Resolution	

[Extra] Setting

The options are listed in the table below.

Name	Control
Custom Paper Auto Orientation	Radio button
Draft Mode	Radio button
Halftone Screen Lock	Radio button
Image Enhancement	Radio button
Print on Separators	Radio button
Resolution	Drop-down menu
Separator Paper Supply	Drop-down menu
Skip Blank Pages	Radio button
Substitute Tray	Drop-down menu
Tray 1 (MPT) Feed Orientation	Drop-down menu

[Custom Paper Auto Orientation] Radio Button

The options are listed in the table below.

Option	Default
Off	
On	◆

[Draft Mode] Radio Button

The options are listed in the table below.

Option	Default
Off	◆
On	

[Halftone Screen Lock] Radio Button

The options are listed in the table below.

Option	Default
Off	
On	◆

[Image Enhancement] Radio Button

The options are listed in the table below.

Option	Default
Off	
On	◆

[Print on Separators] Radio Button

The options are listed in the table below.

Option	Default
Blank Separators	◆
Printed Separators	

[Resolution] Drop-down Menu

The options are listed in the table below.

Option	Default
600 dpi	◆
1200 dpi	

[Separator Paper Supply] Drop-down Menu

The options are listed in the table below.

Option	Default
No Separators	◆
Auto Paper Select	
Tray 1 (MPT)	
Tray 2	
Tray 3	
Tray 4	
Tray 5	

[Skip Blank Pages] Radio Button

The options are listed in the table below.

Option	Default
Off	◆
On	

[Substitute Tray] Drop-down Menu

The options are listed in the table below.

Option	Default
Printer Default	◆
Display Message	
Use Closest Size (Reduce to Fit)	
Use Closest Size (100%)	
Use Larger Size (Reduce to Fit)	
Use Larger Size (100%)	
Select Tray 1 (MPT)	

[Tray 1 (MPT) Feed Orientation] Drop-down Menu

The options are listed in the table below.

Option	Default
Landscape	
Landscape (Rotated)	
Portrait	◆
Portrait (Rotated)	

[General] Setting

The components of this setting are listed in the table below.

Name	Control
2 Sided Print	Drop-down menu
Collated	Radio button
Media Size	Drop-down menu
Paper Tray	Drop-down menu
Paper Type	Drop-down menu

[2 Sided Print] Drop-down Menu

The options are listed in the table below.

Option	Default
1 Sided Print	◆
2 Sided Print	
2 Sided, Flip on Short Edge	

[Collated] Radio Button

The options are listed in the table below.

Option	Default
Off	◆
On	

[Media Size] Drop-down Menu

The options are listed in the table below.

Option	Default
A3 (297x420mm)	
B4 (257x364mm)	
A4 (210x297mm)	◆
A5 (148x210mm)	
B5 (182x257mm)	
Letter (8.5x11") (default)	
8.5x13"	
Legal (8.5x14")	
Tabloid (11x17")	
Executive (7.25x10.5")	
Statement(5.5x8.5")	
No. 10 Envelope	
Monarch (3.875x7.5")	
C5 Envelope	
DL Envelope	
Postcard (100x148mm)	
Postcard (148x200mm)	
Custom Size	

[Paper Tray] Drop-down Menu

The options are listed in the table below.

Option	Default
Auto Select	◆
Tray 1 (MPT)	
Tray 2	
Tray 3	
Tray 4	
Tray 5	

NOTE: Unlike the Windows driver, there is no constraint with [Auto Select].

[Paper Type] Drop-down Menu

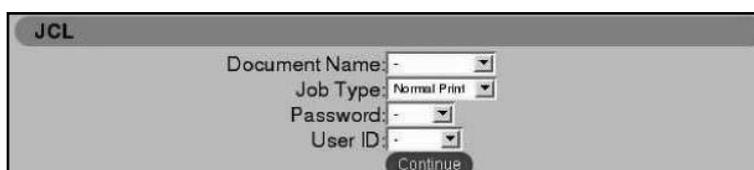
The options are listed in the table below.

Option	Default
Printer Default Type	◆
Plain Paper	
Heavyweight1 (106-169 g/m2)	
Heavyweight2 (170-216 g/m2)	
Transparencies	
Custom 1	
Custom 2	
Custom 3	
Custom 4	
Custom 5	

[JCL] Setting

The components of this setting are listed in the table below.

Name	Control
Document Name	Drop-down menu
Job Type	Drop-down menu
Password	Drop-down menu
User ID	Drop-down menu



[Document Name] Drop-down menu

The options are listed in the table belowf

Option	Default
-	◆
Document 1	
Document 2	
Document 3	
Document 4	
Document 5	

[Job Type] Drop-down Menu

The options are listed in the table below.

Option	Default
Normal Print	◆
Secure Print	

[Password] Drop-down Menu

The options are listed in the table below.

Option	Default
-	◆
1947	
3729	
4197	
6835	
9284	

[User ID] Drop-down Menu

The options are listed in the table below.

Option	Default
-	◆
User 1	
User 2	
User 3	
User 4	
User 5	

[Options Installed] Setting

The components of this setting are listed in the table below

Option	Default
Duplex Module	Radio button
Hard Disk	Radio button
Memory	Drop-down menu
Paper Tray Configuration	Drop-down menu

[Duplex Module] Radio Button

The options are listed in the table below.

Option	Default
Not Available	
Available	◆

NOTE: Unlike the Windows driver and Mac driver, the default is the full configuration.

[Hard Disk] Radio Button

The options are listed in the table below.

Option	Default
Not Available	
Available	◆

NOTE: Unlike the Windows driver and Mac driver, the default is the full configuration.

[Memory] Drop-down Menu

The options are listed in the table below.

Option	Default
Standard 64 MB	
320 MB	
576 MB	◆

NOTE: Unlike the Windows driver and Mac driver, the default is the full configuration.

[Paper Tray Configuration] Drop-down Menu

The options are listed in the table below.

Option	Default
2-Tray	◆
3-Tray	
4-Tray	
5-Tray	

NOTE: Unlike the Windows driver and Mac driver, the default is the full configuration.

[Banners] Setting

The components of this setting are listed in the table below

Option	Default
Starting Banner	Drop-down menu
Ending Banner	Drop-down menu

[Starting Banner] Drop-down Menu

The options are listed in the table below.

Option	Default
None	◆
Classified	
Confidential	
Secret	
Standard	
Top Secret	
Unclassified	

[Ending Banner] Drop-down Menu

The options are listed in the table below.

Option	Default
None	◆
Classified	
Confidential	
Secret	
Standard	
Top Secret	
Unclassified	

[PS Binary Protocol] Drop-down Menu

The options are listed in the table below.

Option	Default
None	◆
TBCP	

Error Message List

When data cannot be sent to the device due to some reasons when printing, use the [Manage Printers] of the CUPS web management site to check the message displayed in [Printer Status] of the device.

The following messages are some examples of messages displayed at the computer. Even if the cause of the error message is the same, the message displayed may differ according to the connection between the device and the computer.

Reference: For details on the messages displayed on the device control panel, refer to the manual that comes with the device.

Error Location	Error Status	Connection	Error Message (Messages displayed on Printer State (printer status) of the CUPS Web Screen (http://localhost:631/printers))
Printer	<ul style="list-style-type: none"> • Power off • No connection • Printer is off or printer is disconnected before data is transferred to the printer after print command • Other errors (Errors occur while the printer cannot accept transferred data.) 	IP (LPR)	<p>The following message appears:</p> <p>(Printer State:) processing, accepting jobs. "Attempting to connect to host xxx.xxx.xxx.xxx (Printer IP address) for printer ***(Printer queue name)"</p> <p>After a while, either of the following message appears:</p> <p>(Printer State:) processing, accepting jobs. "Unable to connect to printer; will retry in 30 seconds ... : Connection timed out"</p> <p>or</p> <p>(Printer State:) processing, accepting jobs. "Network host xxx.xxx.xxx.xxx (Printer IP address) is busy, down unreachable; will retry in 30 seconds ..."</p> <p>(It depends on network environment which message appears.) #This message is displayed until data can be transferred to the printer.</p>
	USB	<p>The following message appears, and printer queue stops. (#This message is displayed until data can be transferred to the printer.) (Printer State:) idle, accepting jobs. "Unable to open USB device ***(USB Device URI): No such device"</p>	
	Parallel	<p>The following message appears. (#This message is displayed until data can be transferred to the printer.) (Printer State:) processing, accepting jobs. "processing, accepting jobs."</p>	
	<ul style="list-style-type: none"> • Printer is off or printer is disconnected while data is transferred to the printer after print command. 	IP (LPR)	<p>The following message appears. (#This message is displayed until data can be transferred to the printer.) (Printer State:) processing, accepting jobs. "Spooling LPR job, xx% complete ...".</p>
	USB	<p>The following message appears, and printer queue stops. (#This message is displayed until data can be transferred to the printer.) (Printer State:) idle, accepting jobs. "Unable to open USB device ***(USB Device URI): No such device"</p>	
	Parallel	<p>The following message appears. (#This message is displayed until data can be transferred to the printer.) (Printer State:) processing, accepting jobs. "processing, accepting jobs."</p>	
	<ul style="list-style-type: none"> • No paper • No toner • Cover open • Cassette open • Other errors (Errors occur while the printer cannot accept transferred data.) 	IP (LPR) USB Parallel	<p>Data is transferred to the printer, and PC completes print job properly. (No error message appears.)</p>

4 Using PCL Emulation

This chapter explains the PCL emulation of the printer.

About PCL Emulation

Print data is data written based on certain rules (grammars). These rules (grammars) are called "print languages".

The printer supports two types of print languages: page description language and emulation. Page description language is a language that describes images on a page basis. Emulation is the ability of this printer to imitate print results of other printers.

Emulation Mode

When printing data written in a language other than the page description languages supported by the printer, switch the printer to an emulation mode. The printer has multiple emulation modes and PCL is one of them. In the PCL emulation mode, the printer emulates the following printer.

Emulation Mode	Emulated Printer
PCL emulation mode (PCL mode)	HP-CLJ4600

Host Interfaces and Emulation

Each host interface supports different print languages. The following host interfaces support PCL emulation:

- Parallel port
- LPD port
- NetWare port
- SMB port
- IPP port
- USB port
- Port9100 port

NOTE: To use a NetWare, SMB, or IPP port, the network expansion card (optional) must be installed.

Switching Print Languages

The machine supports multiple emulation modes and can switch between multiple print languages.

There are three methods of switching print languages.

Switching Languages by Commands

If the printer receives a command that explicitly tells which language to use, the printer switches to that language.

Switching Languages Automatically

The printer examines data received by its host interface and automatically determines and switches to the appropriate language.

Switching Languages by Interface

The printer can be programmed to switch to a particular language for a particular host interface. This can be done by setting a language for each interface on the control panel.

Mode Menu Screen

The menu items for the emulation modes can be accessed from the mode menus. To access the mode menu for the PCL emulation mode, press the <Menu> button and select [Print Language] > [PCL]. The following is the first screen of the PCL mode menu.



Reference: For more information about the setting items of the PCL mode menu, refer to "5 Setting the PCL Mode" (P. 55).

About Fonts

This section explains the fonts that can be used in the PCL emulation mode.

Supported Fonts

The following fonts can be used in the PCL emulation mode.

NOTE: The PCL 5 fonts can be used also by downloading it on the hard disk (optional). The supported fonts and their print samples can be viewed on the [PCL Font List]. For information about the PCL 5 fonts, refer to the section [PCL Font List] in the *User Guide*.

Outline Fonts

- CG Times
- CG Times Italic
- CG Times Bold
- CG Times Bold Italic
- Univers Medium
- Univers Medium Italic
- Univers Bold
- Univers Bold Italic
- Univers Medium Condensed
- Univers Medium Condensed Italic
- Univers Condensed Bold
- Univers Condensed Bold Italic
- Antiq Olive
- Antiq Olive Italic
- Antiq Olive Bold
- CG Omega
- CG Omega Italic
- CG Omega Bold
- CG Omega Bold Italic
- Garamond Antiqua
- Garamond Kursiv
- Garamond Halbfett
- Garamond Kursiv Halbfett
- Courier
- Courier Italic
- Courier Bold
- Courier Bold Italic
- CourierPS Oblique
- CourierPS Bold
- CourierPS Bold Oblique
- SymbolPS
- Palatino Roman
- Palatino Italic
- Palatino Bold
- Palatino Bold Italic
- ITC Bookman Light
- ITC Bookman Light Italic
- ITC Bookman DemiBold
- ITC Bookman DemiBold Italic
- Helvetica Narrow
- Letter Gothic
- Letter Gothic Italic
- Letter Gothic Bold
- Albertus Medium
- Albertus Extra Bold
- Clarendon Condensed Bold
- Coronet
- Marigold
- Arial
- Arial Italic
- Arial Bold
- Arial Bold Italic
- Times New Roman
- Times New Roman Italic
- Times New Roman Bold
- Times New Roman Bold Italic
- Symbol
- Wingdings
- Times Roman
- Times Italic
- Times Bold
- Times Bold Italic
- Helvetica
- Helvetica Oblique
- Helvetica Bold
- Helvetica Bold Oblique
- CourierPS
- Helvetica Narrow Oblique
- Helvetica Narrow Bold
- Helvetica Narrow Bold Oblique
- New Century Schoolbook Roman
- New Century Schoolbook Italic
- New Century Schoolbook Bold
- New Century Schoolbook Bold Italic
- ITC Avant Garde Book
- ITC Avant Garde Book Oblique
- ITC Avant Garde DemiBold
- ITC Avant Garde DemiBold Oblique
- ZapfChancery Medium Italic
- ZapfDingbats

Bitmap Font

- LinePrinter

Paper Eject Function

The section explains the paper eject function of the printer.

Forcibly Ejecting the Remaining Data

In the PCL emulation mode, the printer does not eject a job unless it receives a full page worth of data. When the host interface is Parallel or USB, and if only a portion of a page is received, the printer does not eject the page. The printer waits for the data and shows [Data Wait] on the display until the time set under [Time-out] elapses.

In such situation, you can forcibly print the page without waiting for the time-out period to elapse.

Use the following steps when forcibly ejecting the data remained in the printer.

NOTE: If you send a job to the printer while the display says [Data Wait], the job may not be printed successfully.

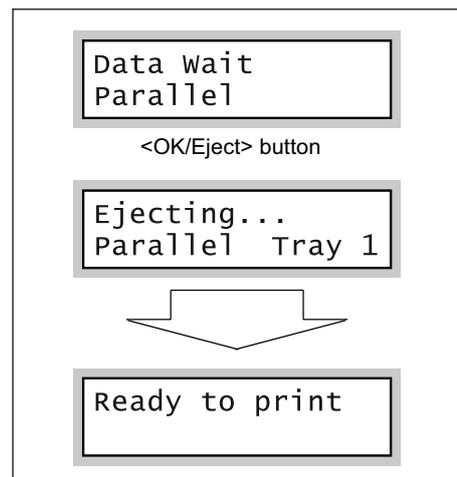
Send a job to the printer after forcibly ejecting the current job or after the time-out period has elapsed.

Reference: For information about the [Time-out] feature, refer to the 'User Guide'.

1. Press the <OK/Eject> button when the display is in the state shown on the right.

The printing starts.

When the printing is finished, the display reads [Ready to print].



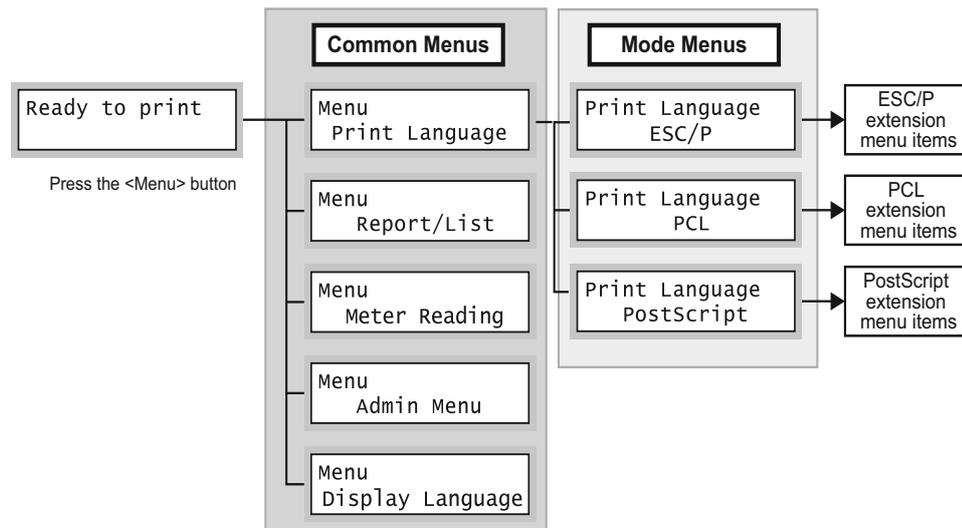
Important: When [Print Mode] (common menu) is set to [Auto], you cannot force-eject a job since the display does not show [Data Wait].

5 Setting the PCL Mode

This chapter explains the PCL Mode settings of the printer.

Control Panel Menus

There are two types of control panel menus: the mode menus and common menus. The mode menus are the menus that relate to the emulation modes. The common menus are the menus for all the other features of the printer.



Common Menu Item Related to the PCL Mode

The common menu item that relates to the PCL emulation mode is as follows:

Reference: For more information about the common menu items, refer to the 'User Guide'.

Network / Port

To display this item, select [Admin Menu] > [Network / Port].

This item allows you to set the ports to be used in the PCL emulation mode.

- Port Status (Parallel/LPD/NetWare/SMB/IPP/USB/Port9100)
Enables the ports to be used in the PCL emulation mode. By default, all ports are set to [Enable].
- Print Mode (Parallel/LPD/NetWare/SMB/IPP/USB/Port9100)
Sets the print mode of each port to [PCL] or [Auto]. By default, all ports are set to [Auto].

NOTE: [Print Mode] allows you to set the method of processing data received from host interfaces. If you set this to [PCL], the printer will not auto-switch languages as described in "Switching Languages Automatically" (P. 52).

PCL Mode Menu

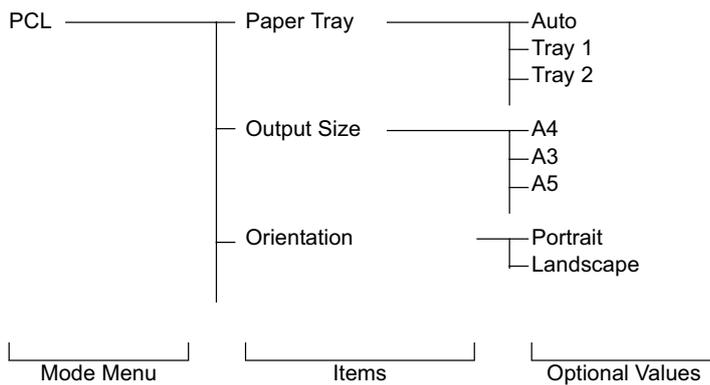
The PCL mode menu allows you to configure the PCL emulation mode.

The settings of the PCL mode menu can be modified even when the printer is printing. The changes you made, however, will be applied not to the job being printed, but from a job after it.

The mode menu is organized into the following structure.

mode menu > items > optional values

NOTE: Some "items" may be divided into item 1, item 2, item 3....
(They will be simply referred to as "items" unless otherwise noted.)



The above is a portion of the hierarchical structure of the PCL mode menu.

Reference: For information about the setting items of the PCL mode menu, refer to "Setting the PCL Mode Menu" (P. 57).

Setting the PCL Mode Menu

This section explains the items in the PCL mode menu and how to configure them.

PCL Mode Menu Items

The items that can be set in the PCL mode menu are as follows:

Paper Tray

Sets the paper tray to be used when printing.

The following options are available:

[Auto] (default)

When [Auto] is selected, the printer searches for the paper tray that contains the paper that matches the [Output Size] setting and automatically feeds paper from that paper tray.

[Tray 1] (Bypass Tray)

[Tray 2] (default)

[Tray 3]

[Tray 4]

[Tray 5]

NOTE: When [Auto] is selected, and if the paper of the same size is loaded in more than one paper tray, the printer selects a tray based on the tray priority setting of a common menu.

[Tray 3] - [Tray 5] are displayed only if the 550 sheet feeders (optional) are installed.

Output Size

Sets the size of the paper to be used when printing.

The following options are available:

[A4] (default)

[A3], [A5], [B4], [B5]

[8.5 x 11], [8.5 x 13], [8.5 x 14], [11 x 17], [5.5 x 8.5], [7.25 x 10.5]

[Env 3.9 x 7.5], [Env 4.1 x 9.5], [Env 110 x 220mm], [Env 162 x 229mm]

[100 x 148mm], [148 x 200 mm], [Env 120 x 235 mm], [Env 105 x 235 mm]

[Custom]

When [Custom] is selected, set the print orientation to [Portrait (Y)] or [Landscape (X)].

Orientation

Sets the print orientation to [Portrait] (default) or [Landscape].

2 Sided

Sets whether or not to print 2 sided by selecting [On] or [Off] (default).

When [On] is selected, set the binding orientation to [Flip Long Edge] (default) or [Flip Short Edge].

NOTE: This item appears only when the duplex unit (optional) is installed.

Font

Sets the font to be used when printing. The default is [Courier].

Symbol Set

Sets the font for symbols. The default is [ROMAN-8].

Font Size

Sets the font size within the range of 4.00 to 50.00 pt in increments of 0.25 pt. The default is [12.00].

Font Pitch

Sets the font pitch (number of characters per inch) within the range of 6.00 to 24.00 cpi in increments of 0.01 cpi. The default is [10.00].

Form Line

Sets the form line (number of lines within one form) within the range of 5 to 128 lines in increments of 1. The default is [64].

Quantity

Sets the number of copies to be printed within the range of 1 to 999. The default is [1 Set(s)].

Image Enhance

Image Enhance is a feature that artificially increases resolution by smoothing out transitions between black and white and reducing jagged appearance. Set whether or not to enable Image Enhance by selecting [On] (default) or [Off].

HexDump

HexDump is a feature that prints the contents of data in ASCII codes (hexadecimal format). Set whether or not to enable HexDump by selecting [Enable] or [Disable] (default).

Draft Mode

Enabling Draft Mode uses less toner when printing. This mode increases print speed but decreases print quality. Set whether or not to enable Draft Mode by selecting [Enable] or [Disable] (default).

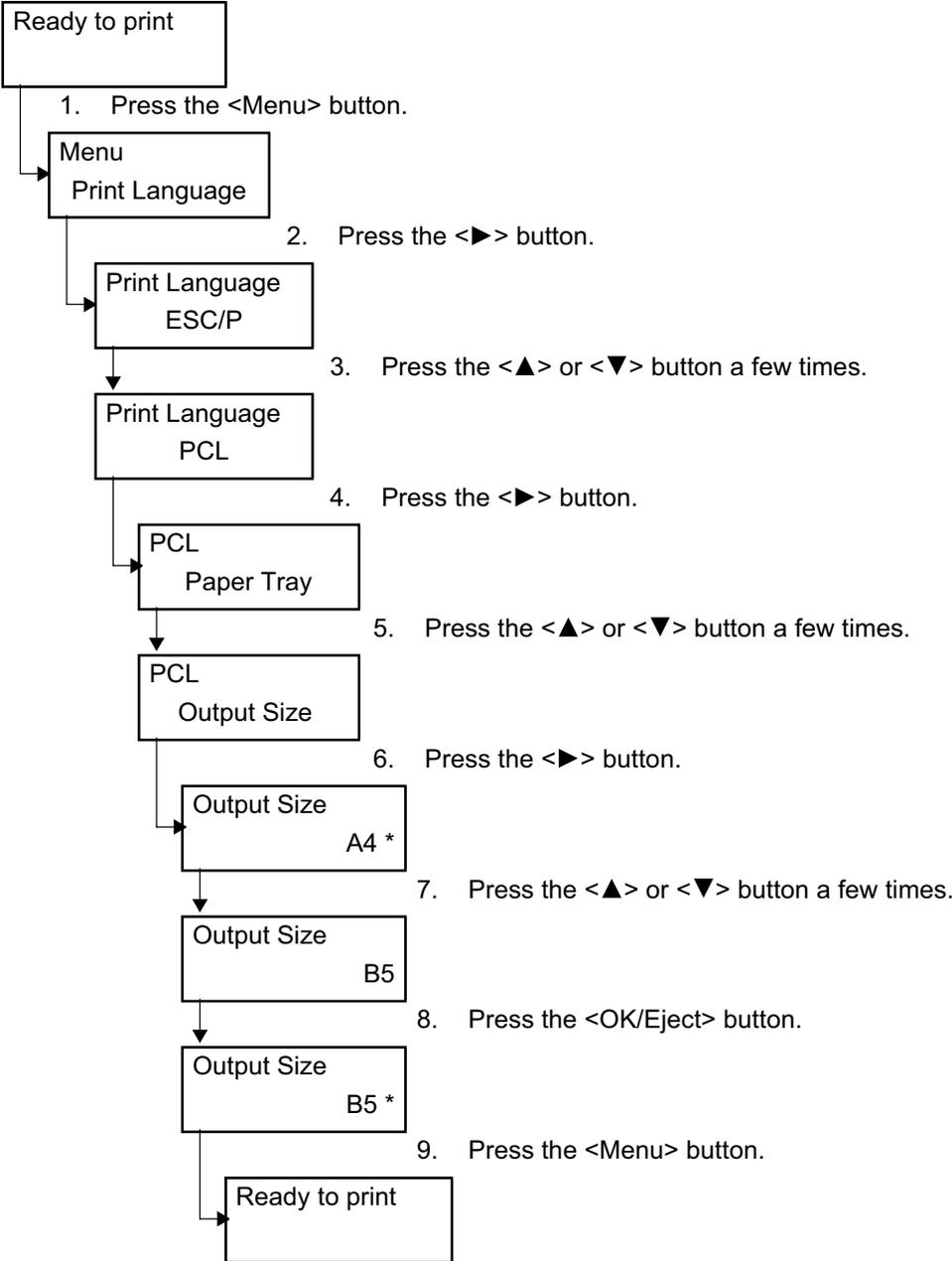
Line Termination

Sets the line termination control codes. Set how you want the printer to interpret CR, LF and FF control codes. The optional values and their interpretations are as follows:

Optional Values	CR Interpretation	LF Interpretation	FF Interpretation
Off (default)	CR	LF	FF
Add-LF	CR + LF	LF	FF
Add-CR	CR	CR + LF	CR + FF
CR-XX	CR + LF	CR + LF	CR + FF

Setting the PCL Mode Menu

The following example shows how to set the paper size of the PCL emulation mode to [B5].



PCL Mode Reports/Lists

This section explains the reports/lists that relate to the PCL emulation mode.

NOTE: Refer to the 'User Guide' for information about other reports/lists.

Printer Settings

Lists the settings configured on the control panel, including the PCL settings.

To print this report/list, select [Report/List] > [Printer Settings] on the control panel.

PCL Font List

Lists the fonts that can be used in the PCL emulation mode and their print samples.

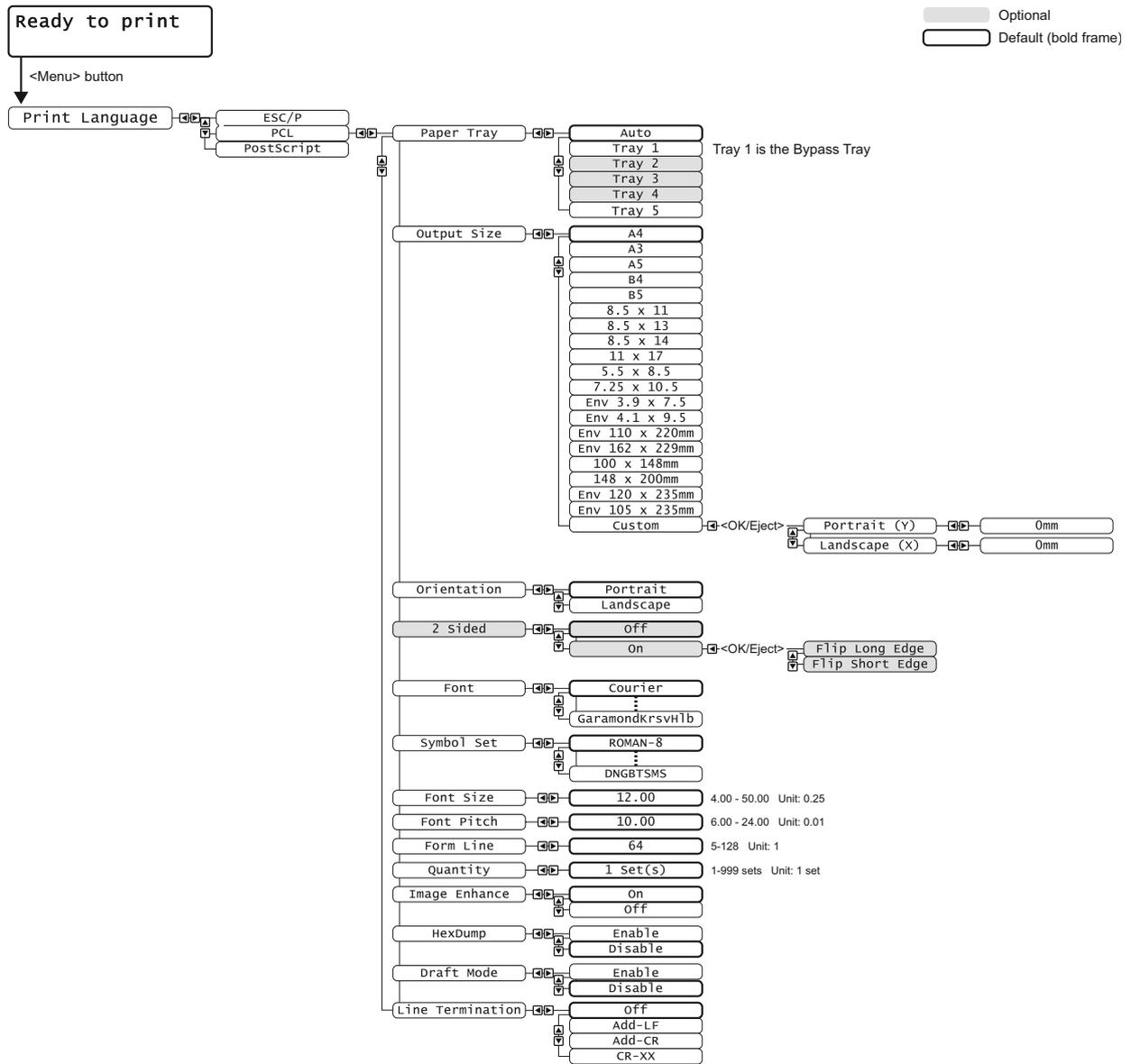
To print this report/list, select [Report/List] > [PCL Font List] on the control panel.

PCL Macro List

Lists the PCL macros downloaded on the printer's hard disk (optional). It shows the macro name, macro ID, and the number of bytes of each macro.

To print this report/list, select [Report/List] > [PCL Macro List] on the control panel.

Mode Menu (PCL)



6 Using ESC/P Emulation

About ESC/P Emulation

This chapter explains the ESC/P emulation of the printer.

Print data is data written based on certain rules (grammars). These rules (grammars) are called "print languages".

The printer supports two types of print languages: page description language and emulation. Page description language is a language that describes images on a page basis. Emulation is the ability of this printer to imitate print results of other printers.

Emulation Mode

To print data written in a language other than the page description languages supported by the printer, switch the printer to an emulation mode. The printer has multiple emulation modes and ESC/P is one of them. In the ESC/P emulation mode, the printer emulates the following printer.

Emulation Mode	Emulated Printer
ESC/P emulation mode (ESC/P mode)	VP-1000

Host Interfaces and Emulation

Each host interface supports different print languages. The following host interfaces support ESC/P emulation:

- Parallel port
- LPD port
- NetWare port
- SMB port
- IPP port
- USB port
- Port9100 port

NOTE: To use a NetWare, SMB, or IPP port, the network expansion card (optional) must be installed.

Switching Print Languages

The printer supports multiple emulation modes and can switch between multiple print languages.

There are three methods of switching print languages.

Switching Languages by Commands

If the printer receives a command that explicitly tells which language to use, the printer switches to that language.

Switching Languages Automatically

The printer examines data received by its host interface and automatically determines and switches to the appropriate language.

Switching Languages by Interface

The printer can be programmed to switch to a particular language for a particular host interface. This can be done by setting a language for each interface on the control panel.

Mode Menu Screen

The menu items for the emulation modes can be accessed from the mode menus. To access the mode menu for the ESC/P emulation mode, press the <Menu> button and select [Print Language] > [ESC/P]. The following is the first screen of the ESC/P mode menu.



Reference: For information about the setting items of the ESC/P mode menu, refer to "7 Setting the ESC/P Mode" (P. 69).

About Fonts

This section explains the fonts that can be used in the ESC/P emulation mode.

Supported Fonts

The following outline fonts can be used in the ESC/P emulation mode.

NOTE: The supported fonts and their print samples can be viewed on the [Font List]. For information about supported fonts, refer to the *[Font List]* section in the *User Guide*.

Western Fonts

- Roman
- Sans Serif
- OCR-B

User-Defined Characters (External Characters)

The ESC/P emulation mode allows you to use user-defined characters (external characters).

User-defined characters are stored in the memory (if the optional hard disk is not installed) and are erased when the printer is switched off.

If the hard disk is installed, user-defined characters are stored in the hard disk and are retained even when the printer is switched off.

User-defined characters are stored as bitmap fonts and cannot be shared among different print languages.

Font Cache

Outline fonts of up to a certain size can be cached to improve print speed. When printing outline fonts, the printer converts them into bitmap fonts. This process can be eliminated by storing converted bitmap fonts into the memory. This is called “font caching”.

The stored bitmap fonts are erased if you switch the printer off or initialize the system.

Paper Eject Function

This section explains the paper eject function of the printer.

Forcibly Ejecting the Remaining Data

In the ESC/P emulation mode, the printer does not eject a job unless it receives a full page worth of data. When the host interface is Parallel or USB, and if only a portion of a page is received, the printer does not eject the page. The printer waits for the data and shows [Data Wait] on the display until the time set under [Time-out] elapses.

In such situation, you can forcibly print the page without waiting for the time-out period to elapse.

Use the following steps when forcibly ejecting the data remained in the printer.

NOTE: If you send a job to the printer while the display says [Data Wait], the job may not be printed successfully.

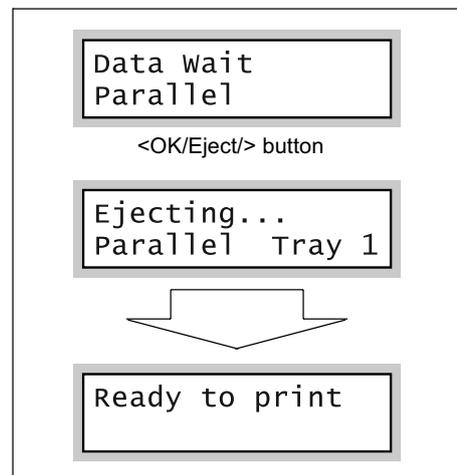
Send a job to the printer after forcibly ejecting the current job or after the time-out period has elapsed.

Reference: For information about the [Time-out] feature, refer to the 'User Guide'.

1. Press the <OK/Eject> button when the display is in the state shown on the right.

The printing starts.

When the printing is finished, the display reads [Ready to print].



Important: When [Print Mode] (common menu) is set to [Auto], you cannot force-eject a job since the display does not show [Data Wait].

Print Features in the ESC/P Mode

The following print features can be used in the ESC/P emulation mode.

Multiple Up (ESC/P)

Multiple Up is a feature that prints multiple pages onto one sheet of paper. In the ESC/P emulation mode, you can perform 2-up printing.

Form Overlay

Form Overlay is a feature that allows you to store forms in the printer and merge them with print data when printing. When using this feature, select a form you want to use on the control panel.

Barcode (ESC/P)

The ESC/P emulation mode allows you to use barcodes. The following barcode standards are supported:

- OCR-B
- JAN code
- CODE39
- NW7 (CODABAR)
- Industrial 2 of 5
- ITF (Interleaved 2 of 5)
- CODE128
- Customer barcode
- QR code

About Forms

The following number of forms can be registered in the ESC/P emulation mode.

	ESC/P
Hard disk installed	64
Hard disk not installed	64

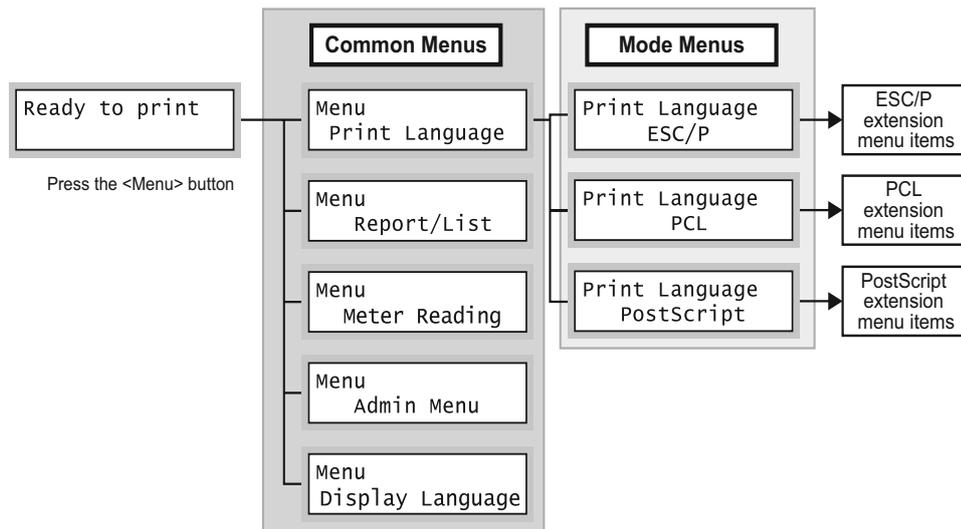
NOTE: If you attempt to register a form when the printer already has the maximum number of forms, or when the memory is not sufficient to store the form, the printer does not register the form without showing any error.

Whether forms have been registered successfully can be checked by printing out the [User Defined List]. For information about the [User Defined List], refer to the [User Defined List] section in the *User Guide*.

7 Setting the ESC/P Mode

Control Panel Menus

There are two types of control panel menus: the mode menus and common menus. The mode menus are the menus that relate to the emulation modes. The common menus are the menus for all the other features of the printer.



Common Menu Items for the ESC/P Mode

The common menu items that relate to the ESC/P emulation mode are as follows:

Reference: For more information about the common menu items, refer to the 'User Guide'.

Network / Port

To display this item, select [Admin Menu] > [Network / Port].

This item allows you to set the ports to be used in the ESC/P emulation mode.

- Port Status (Parallel/LPD/NetWare/SMB/IPP/USB/Port9100)
Enables the ports to be used in the ESC/P emulation mode. By default, all ports are set to [Enable].
- Print Mode (Parallel/LPD/NetWare/SMB/IPP/USB/Port9100)
Sets the print mode of each port to [ESC/P] or [HexDump]. By default, all ports are set to [Auto].

NOTE: [Print Mode] allows you to set the method of processing data received from host interfaces. If you set this to [ESC/P], the printer will not auto-switch languages.

Delete Form

To display this item, select [Admin Menu] > [Init/Del Data] > [Delete Form].

This item allows you to delete ESC/P forms registered in the printer. If there is no form registered in the printer, [Not registered] appears instead of [Delete Form].

- Delete ESC/P Form
Deletes ESC/P forms registered in the printer.

ESC/P Mode Menu

The ESC/P mode menu allows you to configure the ESC/P emulation mode.

The settings of the ESC/P mode menu can be modified even when the printer is printing. The changes you made, however, will be applied not to the job being printed, but from a job after it.

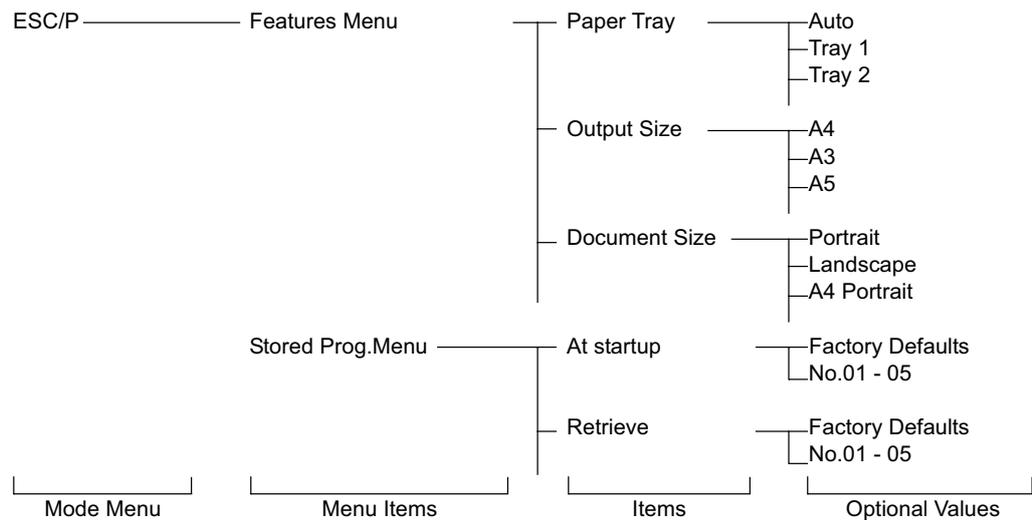
The mode menu is organized into the following structure:

mode menu > menu items > items > optional values

NOTE: Some "menu items" do not have items.

Some "items" may be divided into item 1, item 2, item 3...

(They will be simply referred to as "items" unless otherwise noted.)



The above is a portion of the hierarchical structure of the ESC/P mode menu.

Reference: For information about the setting items of the ESC/P mode menu, refer to "Setting the ESC/P Mode Menu" (P. 71).

Setting the ESC/P Mode Menu

This section explains the items in the ESC/P mode menu and how to configure them.

ESC/P Mode Menu Items

The items that can be set in the ESC/P mode menu are as follows:

Features Menu

Paper Tray

Sets the paper tray to be used when printing.

The following options are available:

[Tray 1] (Bypass Tray)

[Tray 2] (default)

[Tray 3]

[Tray 4]

[Tray 5]

[Auto]

When [Auto] is selected, the printer searches for the paper tray that contains the paper that matches the [Output Size] setting and automatically feeds paper from that paper tray.

NOTE: [Tray 2] - [Tray 5] display the size of the paper loaded in each tray next to the tray names.

When [Auto] is selected, and if the paper of the same size is loaded in more than one paper tray, the printer selects a paper tray based on the tray priority setting of a common menu.

[Tray 3] - [Tray 5] are displayed only if the 550 sheet feeders (optional) are installed.

Output Size

Sets the size of the paper to be used when printing. This can be set only when [Paper Tray] is set to [Auto] or [Tray 1] (Bypass Tray). Only the sizes for cut sheets can be selected.

The following options are available:

[A4] (default)

[A3]

[A5]

[B4]

[B5]

[11 x 17]

[8.5 x 13] (Available only when [Paper Tray] is set to [Tray 1] (Bypass Tray))

[8.5 x 14]

[8.5 x 11]

[100 x 148mm] (Available only when [Paper Tray] is set to [Tray 1] (Bypass Tray))

NOTE: When [Zoom Mode] is set to [Fixed %] or [Whole Output Size], the printer automatically determines the zoom ratio based on the [Document Size] and [Output Size] settings.

When [2 Pages Up] is enabled, the zoom ratio will be 1/2 of the zoom ratio determined from [Document Size] and [Output Size].

[Output Size] cannot be set when [Paper Tray] is set to [Tray 1], [Tray 2], [Tray 3], or [Tray 4]. In such case, [Output Size] displays the paper size set for the selected paper tray.

Document Size

Sets the size and orientation of the document to be printed.

The following options are available:

[Portrait] (default)

[Landscape]

[A4 Portrait], [A4 Landscape], [A3 Portrait], [A3 Landscape], [A5 Portrait], [A5 Landscape], [B4 Portrait], [B4 Landscape], [B5 Portrait], [B5 Landscape], [100 x 148mm P], [100 x 148mm L]

[11x17 Portrait], [11x17 Landscape]

[8.5x14 Portrait], [8.5x14 Landscape]

[8.5x13 Portrait], [8.5x13 Landscape]

[8.5x11 Portrait], [8.5x11 Landscape]

[R15x12 Landscape] (continuous form paper: 15 x 12; 136 columns/72 rows)

[R15x11 Landscape] (continuous form paper: 15 x 11; 136 columns/66 rows)

[R10x12 Portrait] (continuous form paper: 10 x 12; 80 columns/72 rows)

[R10x11 Portrait] (continuous form paper: 10 x 11; 80 columns/66 rows)

NOTE: When [Zoom Mode] is set to [Fixed %] or [Whole Output Size], the printer automatically determines the zoom ratio based on the [Document Size] and [Output Size] settings.

When [2 Pages Up] is enabled, the zoom ratio will be 1/2 of the zoom ratio determined from [Document Size] and [Output Size].

The paper orientation you select here is that of the document to be printed. The orientation will not affect the orientation of the paper in the selected paper tray.

When [Portrait] or [Landscape] is selected, [Document Size] will be the size selected for [Output Size].

Quantity

Sets the number of copies to be printed within the range of 1 (default) to 250.

NOTE: If the printer receives a job that specifies print quantity, that quantity will be applied to the job instead of the quantity set here. After the job is printed, the quantity set on the control panel also changes to the quantity specified by the job. However, if the job is requested through a NetWare or LPD port, the quantity on the control panel does not change to the quantity specified by the job.

Holding down the <▼> or <▲> button scrolls through the options in a circular fashion. Simultaneously pressing the <▼> and <▲> buttons displays the default value.

Zoom Mode

■ Fixed % (default)

Automatically reduces or enlarges the document based on [Document Size] and [Output Size] so that the printable area of [Document Size] fits into that of [Output Size]. If the sizes specified for [Document Size] and [Output Size] are the same, the document will be printed at 100% zoom ratio. When [2 Pages Up] is enabled, two pages will be printed onto the printable area of one page.

■ Variable %

Allows you to set the desired zoom ratio. You can set different zoom ratios for X and Y directions within the range of 45 to 210% in increments of 1%. The default is [P 100% L 100%].

■ Whole Output Size

Automatically calculates the zoom ratio based on [Document Size] and [Output Size] and prints the document so that the physical size of [Document Size] fits into the printable area of [Output Size].

NOTE: When continuous-form paper is selected for [Document Size], [Fixed %] and [Whole Output Size] derive the same print result.

Use the <▶> or <◀> button when entering the value for [Variable %]. Holding down the <▼> or <▲> button scrolls through the options in a circular fashion. Simultaneously pressing the <▼> and <▲> buttons displays the default value.

2 Sided Print

Sets whether or not to print 2 sided.

The following options are available:

[1 Sided] (default)

Prints only on one side of paper.

[Head to Head]

Prints on both sides of paper. This prints the reverse side of paper so that the finished document opens like a book.

[Head to Toe]

Prints on both side of paper. This prints the reverse side of paper so that the finished document opens like a calendar.

2 Pages Up

This feature prints two pages of data onto one page. Two pages can be printed side by side or one on top of the other.

The following options are available:

[1 Page Up] (default)

Does not perform 2 Pages Up.

[Left -> Right]

Performs 2 Pages Up. This prints the first page of your document on the left or top half of a page.

[Right -> Left]

Performs 2 Pages Up. This prints the first page of your document on the right or bottom half of a page.

Important: When the orientation of [Document Size] is set to landscape, [Left -> Right] and [Right -> Left] derive the same print result.

Tray1-Wait User

This feature allows you to request bypass printing and manually start printing by pressing the <OK/Eject> button on the control panel. Set whether or not to enable this feature by selecting [On] or [Off] (default).

Font

■ Alphanumeric

Sets the font for single-byte characters (ANK) to [Roman] (default) or [Sans Serif].

NOTE: This setting is not affected by extension commands sent from users.

Reference: "About Fonts" (P. 65)

Page Position

Sets the paper position by enabling or disabling the cut sheet feeder setting.

The following options are available:

[CSF Off] (default)

Disables the cut sheet feeder setting.

[CSF On]

Enables the cut sheet feeder setting.

Adjust Position

This feature allows you to adjust the printable area in vertical or horizontal direction and move the margins.

■ Up/Down Adj

Adjusts the position of the printable area in vertical direction. The position can be adjusted within the range of -250 to 250 mm in increments of 1 mm. The default is [0mm].

If entering the value in inches, enter it within -9.8 to 9.8" in increments of 0.1". The default is [0.0"].

■ Left/Right Adj

Adjusts the position of the printable area in horizontal direction. The position can be adjusted within the range of -250 to 250 mm in increments of 1 mm. The default is [0mm].

If entering the value in inches, enter it within -9.8 to 9.8" in increments of 0.1". The default is [0.0"].

NOTE: The part of data that falls outside the printable area will not be printed even if you adjust the position of the printable area. Also, the part of data that falls outside the printable area due to the adjustment of the printable area will not be printed.

Holding down the <▼> or <▲> button scrolls through the options in a circular fashion. Simultaneously pressing the <▼> and <▲> buttons displays the default value.

Ruled Line

Sets the method for printing double-byte ruled lines.

The following options are available:

[Image] (default)

Prints double-byte ruled lines as images. This eliminates misalignment between ruled lines and images.

[Font]

Prints double-byte ruled lines using built-in fonts. This gives a uniform appearance to ruled lines and texts.

Print Control

■ Skip Blank Pages

Sets whether or not to skip blank pages during printing.

The following options are available:

[On] (default)

Skips blank pages.

[Off]

Does not skip blank pages.

NOTE: Pages that only contain white images or spaces entered with external characters will be printed as blank pages even when [Skip Blank Pages] is set to [On].

When [On] is selected, and if [2 Sided Print] or [2 Pages Up] is enabled, blank pages will be skipped during printing.

■ Image Enhance

Image Enhance is a feature that artificially enhances resolution by smoothing out transitions between black and white and reducing jagged appearance. Set whether or not to enable Image Enhance by selecting [On] (default) or [Off].

■ Character Range

Sets whether or not to extend the position of the right margin.

The following options are available:

[Normal] (default)

Sets the right margin at column 136 at 10 cpi.

[Extended]

Depending on the zoom ratio setting, this extends the position of the right margin when there is enough space to the right of column 136 at 10 cpi and prints also in that extended area.

NOTE: When [Character Range] is changed from [Extended] to [Normal], the left and right margins will be reset to the defaults.

When the right margin is set by a command, the position specified by the command will be the right edge.

■ Character Mode

Character Mode is a feature that sends printer control commands in characters instead of in hexadecimal numbers. When sending printer control commands from an IBM host computer through a computer that supports Character Mode, set the start character string to "&\$%&" or "\$?!#".

The following options are available:

[Off] (default)

Disables Character Mode.

["&\$%&" Entry]

Uses "&\$%&" as the start character string.

["\$?!#" Entry]

Uses "\$?!#" as the start character string.

ESC/P Switch

NOTE: The values for [Text], [Minimum Text], [Char. Code Table], [Page Length], and [1 inch Skip] are not affected by extension commands sent from users.

■ Text

Sets the print quality mode to [High Quality] (default) or [Draft].

NOTE: This only changes the status of the setting and not the actual print quality.

This setting is affected by "Text" commands sent from users.

■ Minimum Text

Sets whether or not to reduce the size of single-byte characters when printing.

The following options are available:

[Off] (default)

Prints single-byte characters without reducing their sizes.

[On]

Prints single-byte characters in reduced sizes.

■ Char. Code Table

If the Chinese font kit is installed, select the type of character code table for single-byte characters. The options are [Graphics] (default) and [Slant].

■ Page Length

Sets the length of one page (printable area) to [11 Inches] (default) or [12 Inches].

■ 1 inch Skip

Sets whether or not to leave 1-inch space between pages.

The following options are available:

[Off] (default)

Does not leave 1-inch space between pages.

[On]

Leaves 1-inch space between pages. The printer skips a space between cut sheets as it skips over the perforation on continuous-form paper.

NOTE: This feature is available when [Page Position] is set to [CSF Off].

■ Feed Position

Sets the position where printing starts by the length from the top edge of paper. The options are [8.5 mm] (default) and [22 mm]. If setting this value in inches, select [0.3"] (default) or [0.9"].

■ CR Functions

Sets how to handle CR command.

The following options are available:

[CR] (default)

Performs a carriage return only.

[CR/LF]

Performs a carriage return and then a line-feed.

■ 0 Style

Sets the character style of "0" (zero).

The following options are available:

[0] (default)

Uses "0" without a slash (normal style zero).

[0]

Uses "0" with a slash through it.

Specify Extension

Sets whether or not to enable the extension specified by selecting [Enable] or [Disable] (default). When the extension is enabled, printing can be controlled using text codes.

NOTE: An extended command is prefixed with an extender followed by command identification data and parameter data (if necessary). An extension is the first 2 bytes of an extended command (ESC (1BH in hexadecimal) followed by a ";" (semicolon or 3 BH in hexadecimal)).

Extension

Sets the extension (first 2 bytes) of an extended command if you want to enable printing by text codes. The codes between 0x21 and 0x7d are valid. The default is [&%].

NOTE: An extended command is prefixed with an extender followed by command identification data and parameter data (if necessary). An extension is the first 2 bytes of an extended command (ESC (1BH in hexadecimal) followed by a ";" (semicolon or 3 BH in hexadecimal)).

Form Overlay

Performs Form Overlay if you select a form registered in the ESC/P mode (No. 01 - 64). The default is [Off].

NOTE: This setting is not affected by extension commands sent from users.

If you delete a form after selecting it, it still appears on the menu, but disappears, if you switch the screens using <▼> or <▲>. If you delete the form, this setting changes to [Off].

If you select this feature when there is no form registered in the printer, the display shows [Not registered].

Stored Prog. Menu

This menu allows you to store the settings in the NV memory (No. 01 - 05) and recall them whenever you want.

At startup

The [At startup] memory is NV memory (No. 01 to 05) stored under [Store] and recalled when the power is switched off or when the system is initialized.

Enter the number of NV memory you want to recall.

The default is [Factory Defaults], which recalls the factory default settings.

Retrieve

Recalls and retrieves the settings stored in the printer.

Enter the number of memory you want to recall.

The default is [Factory Defaults], which recalls the factory default settings.

Store

There are two types of memory: ROM that stores the factory default settings and NV memory (No. 01 to 05) that stores the user-defined settings.

The NV memory (No. 01 to 05) allows you to store the settings of mode menus in groups.

By storing the settings, you can easily recall them and do not need to enter them every time you switch on the printer.

The stored settings will be retained until you initialize the NV memory or delete the settings.

Delete

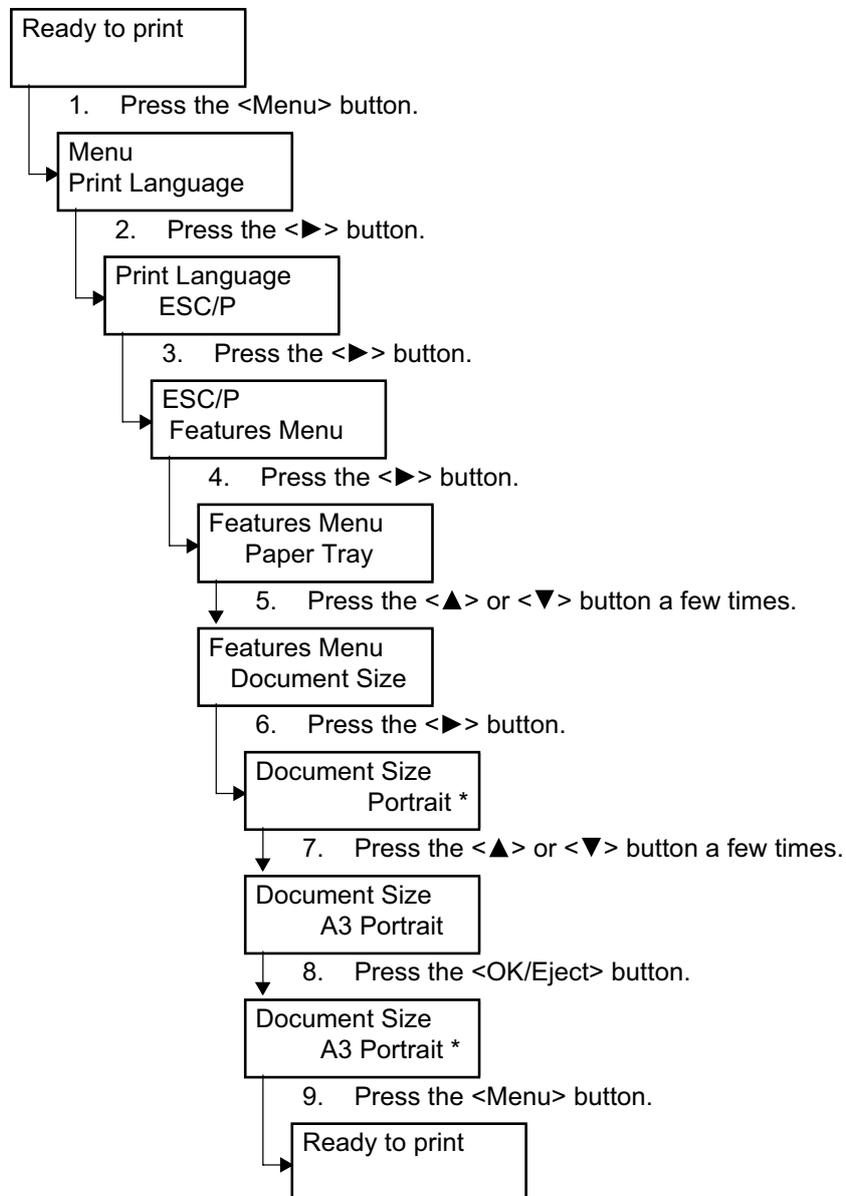
Deletes the settings stored in the NV memory.

Set the number of memory to be deleted.

NOTE: When no setting is stored in the NV memory, [No.01] - [No.05] do not appear on the display, and [Not registered] appears instead.

Settings the ESC/P Mode Menu

The following example shows how to set the document size of the ESC/P mode to [A3 Portrait].



ESC/P Mode Reports/Lists

This section explains the reports/lists that relate to the ESC/P emulation mode.

NOTE: Refer to the 'User Guide' for information about other reports/lists.

Printer Settings

Lists the settings configured on the control panel, including the ESC/P settings.

To print this report/list, select [Report/List] > [Printer Settings] on the control panel.

Font List

Lists the fonts that can be used on the printer, including the fonts for the ESC/P emulation mode.

To print this report/list, select [Report/List] > [Font List] on the control panel.

User Defined List

Lists the registered forms, logos, and the usage status of the user-defined region.

To print this report/list, select [Report/List] > [User Defined] on the control panel.

ESC/P Logical Printers List

Lists the values of the settings stored in the NV memory No. 01 to 05.

To print this report/list, select [Report/List] > [ESC/P Logical] on the control panel.

8 ESC/P Mode Reference Materials

Zoom Ratio Tables

NOTE: Some of the following output sizes may not be available depending on the model of your printer.

Zoom Ratios - Fixed

Document Size	Output Size	A3	A4	A5	B4	B5	11x17	8.5x14	8.5x13	8.5x11	Postcard
A3	Long Edge	100	70	49	86	60	103	84	78	66	100
	Short Edge	100	70	48	86	60	94	72	72	72	100
A4	Long Edge	143	100	70	123	86	147	120	112	94	48
	Short Edge	143	100	69	123	86	135	103	103	103	45
A5	Long Edge	204	143	100	177	123	210	172	160	135	69
	Short Edge	207	145	100	178	124	195	149	149	149	65
B4	Long Edge	116	81	57	100	70	119	98	90	76	100
	Short Edge	116	81	56	100	70	109	83	83	83	100
B5	Long Edge	164	116	81	143	100	171	140	130	109	56
	Short Edge	164	116	81	143	100	156	120	120	120	53
11 x 17	Long Edge	97	68	48	84	59	100	82	76	64	100
	Short Edge	106	74	51	92	64	100	77	77	77	100
8.5 x 14	Long Edge	119	83	58	102	72	122	100	93	78	100
	Short Edge	139	97	67	120	84	131	100	100	100	100
8.5 x 13	Long Edge	128	90	63	111	77	132	108	100	84	100
	Short Edge	139	97	67	120	84	131	100	100	100	100

Document Size	Output Size	A3	A4	A5	B4	B5	11x17	8.5x14	8.5x13	8.5x11	Postcard
8.5 x 11	Long Edge	152	106	74	131	92	156	128	119	100	100
	Short Edge	139	97	67	120	84	131	100	100	100	100
Postcard	Long Edge	100	100	145	100	178	100	100	100	100	100
	Short Edge	100	100	153	100	190	100	100	100	100	100
15 x 1	Long Edge	119	83	58	103	72	122	100	93	78	100
	Short Edge	103	72	50	89	62	97	74	74	74	100
15 x 2	Long Edge	119	83	58	103	72	122	100	93	78	100
	Short Edge	95	66	46	81	57	89	68	68	68	100
10 x 11	Long Edge	147	103	72	127	89	151	124	115	97	50
	Short Edge	142	99	68	122	85	133	102	102	102	45
10 x 12	Long Edge	135	95	66	117	81	139	114	105	89	46
	Short Edge	142	99	68	122	85	133	102	102	102	45

Unit: %

NOTE: When the zoom ratio of either the long edge or short edge is not within 45 - 210%, the zoom ratio of both the long edge and short edge will be 100%.

Zoom Ratios - Fixed (When 2 Pages Up is Enabled)

Document Size	Output Size	A3/2	A4/2	A5/2	B4/2	B5/2	11x17 /2	8.5x14 /2	8.5x13 /2	8.5x11 /2	Postcard /2
A3	Long Edge	70	49	100	60	100	66	50	50	50	100
	Short Edge	70	48	100	60	100	72	59	54	45	100
A4	Long Edge	100	70	48	86	60	94	72	72	72	100
	Short Edge	100	69	48	86	59	103	84	78	65	100
A5	Long Edge	143	100	69	123	86	135	103	103	103	45
	Short Edge	145	100	69	124	86	149	121	112	94	47

Document Size	Output Size	A3/2	A4/2	A5/2	B4/2	B5/2	11x17 /2	8.5x14 /2	8.5x13 /2	8.5x11 /2	Postcard /2
B4	Long Edge	81	57	100	70	49	76	58	58	58	100
	Short Edge	81	56	100	70	48	83	68	63	53	100
B5	Long Edge	116	81	56	100	70	109	83	83	83	100
	Short Edge	116	80	55	100	69	120	98	90	76	100
11 x 17	Long Edge	68	48	100	59	100	64	49	49	49	100
	Short Edge	74	51	100	64	100	77	62	58	48	100
8.5 x 14	Long Edge	83	58	100	72	50	78	60	60	60	100
	Short Edge	97	67	100	84	57	100	82	75	63	100
8.5 x 13	Long Edge	90	63	100	77	54	84	64	64	64	100
	Short Edge	97	67	100	84	57	100	82	75	63	100
8.5 x 11	Long Edge	106	74	51	92	64	100	77	77	77	100
	Short Edge	97	67	46	84	57	100	82	75	63	100
Postcard	Long Edge	100	145	100	178	124	100	149	149	149	65
	Short Edge	100	153	105	190	131	100	185	172	144	71
15 x 11	Long Edge	83	58	100	72	100	78	60	60	60	100
	Short Edge	72	50	100	62	100	74	60	56	47	100
15 x 12	Long Edge	83	58	100	72	100	78	60	60	100	100
	Short Edge	66	46	100	57	100	68	55	51	100	100
10 x 11	Long Edge	103	72	50	89	62	97	74	74	74	100
	Short Edge	99	68	47	85	59	102	83	77	64	100
10 x 12	Long Edge	95	66	46	81	57	89	68	68	68	100
	Short Edge	99	68	47	85	59	102	83	77	64	100

Unit: %

NOTE: When the zoom ratio of either the long edge or short edge is not within 45 - 210%, the zoom ratio of both the long edge and short edge will be 100%.

Zoom Ratios - Whole Output Size

Document Size	Output Size	A3	A4	A5	B4	B5	11x17	8.5x14	8.5x13	8.5x11	Postcard
A3	Long Edge	98	69	48	85	59	101	83	77	64	100
	Short Edge	97	68	47	84	58	91	70	70	70	100
A4	Long Edge	138	97	68	120	84	142	117	108	91	100
	Short Edge	137	96	66	118	82	129	99	99	99	100
A5	Long Edge	196	137	96	169	118	201	165	153	129	66
	Short Edge	195	136	94	168	117	183	140	140	140	62
B4	Long Edge	113	79	55	98	68	116	95	88	74	100
	Short Edge	112	78	54	97	67	105	81	81	81	100
B5	Long Edge	160	112	78	138	97	165	135	125	105	54
	Short Edge	158	110	76	136	95	149	114	114	114	50
11 x 17	Long Edge	95	67	47	82	57	98	80	74	63	100
	Short Edge	103	72	50	89	62	97	74	74	74	100
8.5 x 14	Long Edge	116	81	57	100	70	119	98	90	76	100
	Short Edge	133	93	64	115	80	125	96	96	96	100
8.5 x 13	Long Edge	125	87	61	108	75	128	105	97	82	100
	Short Edge	133	93	64	115	80	125	96	96	96	100
8.5 x 11	Long Edge	147	103	72	127	89	151	124	115	97	100
	Short Edge	133	93	64	115	80	125	96	96	96	100
Postcard	Long Edge	100	195	136	100	168	100	100	100	183	94
	Short Edge	100	201	139	100	173	100	100	100	207	91

Document Size	Output Size	A3	A4	A5	B4	B5	11x17	8.5x14	8.5x13	8.5x11	Postcard
15 x 11	Long Edge	135	95	66	117	81	139	105	114	89	46
	Short Edge	142	99	68	122	85	133	102	102	102	45
15 x 12	Long Edge	135	95	66	117	81	139	105	114	89	46
	Short Edge	142	99	68	122	85	133	102	102	102	45
10 x 11	Long Edge	147	103	72	127	89	151	115	124	97	50
	Short Edge	142	99	68	122	85	133	102	102	102	45
10 x 12	Long Edge	147	103	72	127	89	151	124	115	97	50
	Short Edge	142	99	68	122	85	133	102	102	102	45

Unit: %

NOTE: When the zoom ratio of either the long edge or short edge is not within 45 - 210%, the zoom ratio of both the long edge and short edge will be 100%.

Zoom Ratios - Whole Output Size (When 2 Pages Up is Enabled)

Document Size	Output Size	A3/2	A4/2	A5/2	B4/2	B5/2	11x17 /2	8.5x14 /2	8.5x13 /2	8.5x11 /2	Postcard /2
A3	Long Edge	69	48	100	59	100	64	49	49	100	100
	Short Edge	68	47	100	58	100	70	57	53	100	100
A4	Long Edge	97	68	47	84	58	91	70	70	70	100
	Short Edge	96	66	46	82	57	99	80	74	62	100
A5	Long Edge	137	96	66	118	82	129	99	99	99	100
	Short Edge	136	84	65	117	80	140	114	106	88	100
B4	Long Edge	79	55	100	68	48	74	57	57	57	100
	Short Edge	78	54	100	67	46	81	66	61	51	100
B5	Long Edge	112	78	54	97	67	105	81	81	81	100
	Short Edge	110	76	53	95	65	114	93	86	72	100

Document Size	Output Size	A3/2	A4/2	A5/2	B4/2	B5/2	11x17 /2	8.5x14 /2	8.5x13 /2	8.5x11 /2	Postcard /2
11 x 17	Long Edge	67	47	100	57	100	63	48	48	48	100
	Short Edge	72	50	100	62	100	74	60	56	47	100
8.5 x 14	Long Edge	81	47	100	70	49	76	58	58	58	100
	Short Edge	93	50	100	80	55	96	78	72	61	100
8.5 x 13	Long Edge	87	61	100	75	52	82	63	63	63	100
	Short Edge	93	64	100	80	55	96	78	72	61	100
8.5 x 11	Long Edge	103	89	100	89	72	97	74	74	74	100
	Short Edge	93	80	100	80	55	96	78	72	61	100
Postcard	Long Edge	195	136	94	168	117	183	140	140	140	62
	Short Edge	201	139	96	173	119	207	169	156	131	65
15 x 11	Long Edge	95	66	46	81	57	89	68	68	68	100
	Short Edge	99	68	47	85	59	102	83	77	64	100
15 x 12	Long Edge	95	66	46	81	57	89	68	68	68	100
	Short Edge	99	68	47	85	59	102	83	77	64	100
10 x 11	Long Edge	103	72	50	89	62	97	74	74	74	100
	Short Edge	99	68	47	85	59	102	83	77	64	100
10 x 12	Long Edge	103	72	50	89	62	97	74	74	74	100
	Short Edge	99	68	47	85	59	102	83	77	64	100

Unit: %

NOTE: When the zoom ratio of either the long edge or short edge is not within 45 - 210%, the zoom ratio of both the long edge and short edge will be 100%.

Output Size and Printing Columns/Rows

NOTE: Some of the following output sizes may not be available depending on the model of your printer.

Feed Position - 22 mm

Output Size	Portrait		Landscape	
	Column	Row	Column	Row
A3	113	92	161	63
B4	97	78	139	53
A4	79	63	113	42
B5	68	53	97	35
A5	54	42	79	27
Postcard	35	30	54	19
11 x 17	106	94	166	58
8.5 x 14	81	76	136	43
8.5 x 13	81	70	126	43
8.5 x 11	81	58	106	43

Feed Position - 8.5 mm

Output Size	Portrait		Landscape	
	Column	Row	Column	Row
A3	113	95	161	66
B4	97	82	139	56
A4	79	66	113	45
B5	68	56	97	39
A5	54	45	79	31
Postcard	35	30	54	19
11 x 17	106	98	166	62
8.5 x 14	81	80	136	47
8.5 x 13	81	74	126	47
8.5 x 11	81	62	106	47

NOTE: The above values are based on 10 cpi character pitch and 6 lpi line pitch.
The zoom ratios for both the long edge and short edge are 100%.

Whole Output Size

Output Size	Portrait		Landscape	
	Column	Row	Column	Row
A3	116	99	165	70
B4	101	85	143	60
A4	82	70	116	49
B5	71	60	101	42
A5	58	49	82	34
Postcard	39	34	58	23
11 x 17	110	102	170	66
8.5 x 14	85	84	140	51
8.5 x 13	85	78	130	51
8.5 x 11	85	66	110	51

NOTE: The above values are based on 10 cpi character pitch and 6 lpi line pitch.

15" Continuous-Form-Paper Mode (Landscape Fixed/Flush Left)

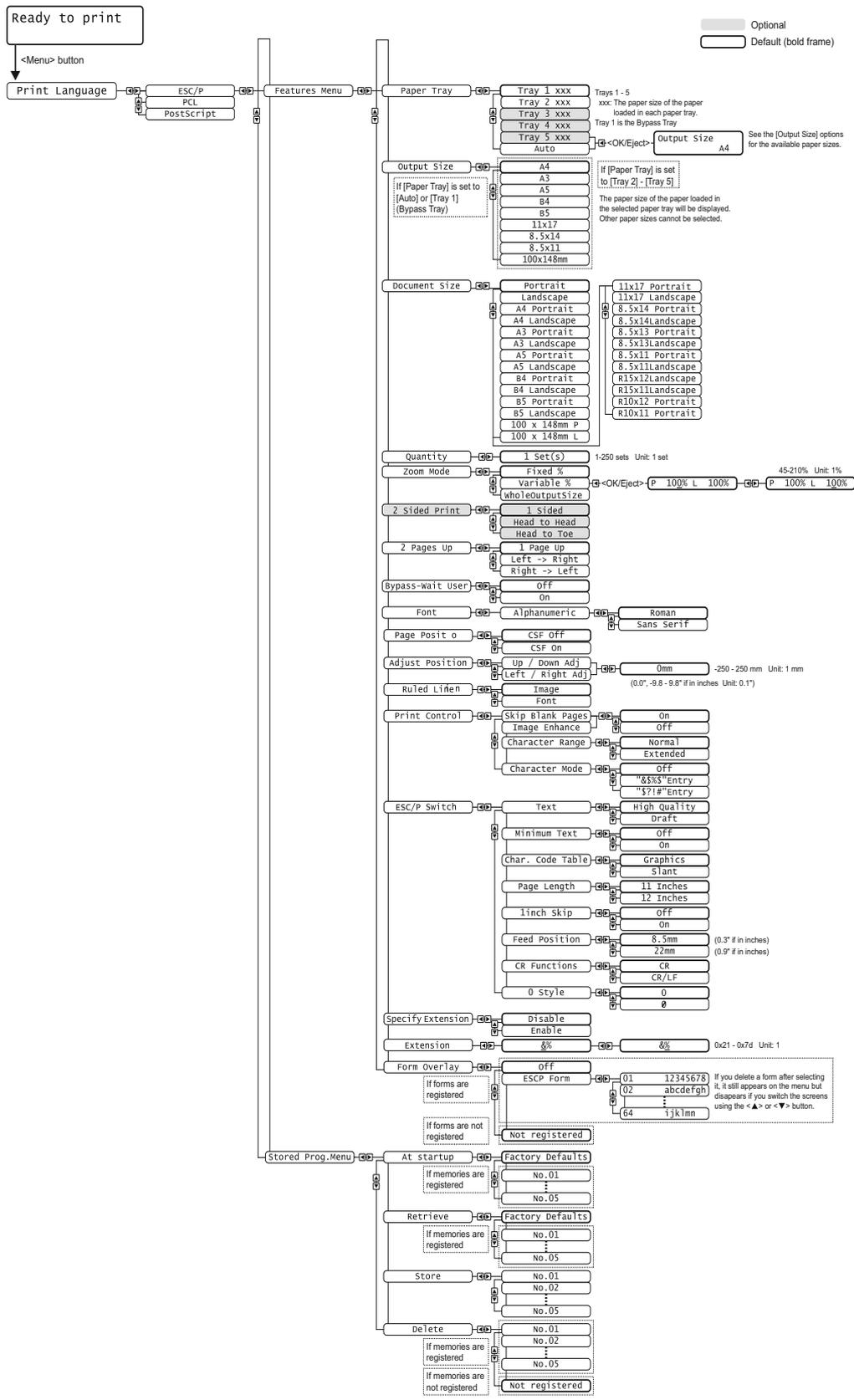
Output Size	Portrait		Landscape	
	Column	Row	Column	Row
All supported paper sizes	136	66	136	72

NOTE: The above values are based on 10 cpi character pitch and 6 lpi line pitch.

10" Continuous-Form-Paper Mode

Output Size	Portrait		Landscape	
	Column	Row	Column	Row
All supported paper sizes	80	66	80	72

Mode Menu (ESC/P)



9 Appendix

Built-in Fonts

The following 136 PostScript fonts and OCR-B fonts are built into the printer.

- Albertus
- Albertus Italic
- Albertus Light
- Antique Olive Bold
- Antique Olive Compact
- Antique Olive Italic
- Antique Olive Roman
- Apple Chancery
- Arial
- Arial Bold
- Arial Bold Italic
- Arial Italic
- Bodoni Bold
- Bodoni Bold Italic
- Bodoni Italic
- Bodoni Poster
- Bodoni Poster Compressed
- Bodoni Roman
- Carta
- Chicago
- Clarendon Bold
- Clarendon Light
- Clarendon Roman
- Cooper Black
- Cooper Black Italic
- Copperplate Gothic 32BC
- Appendix
- 122
- Copperplate Gothic 33BC
- Coronet
- Courier
- Courier Bold

- Courier Bold Oblique
- Courier Oblique
- Eurostile Bold
- Eurostile Bold Extended No. 2
- Eurostile Extended No. 2
- Eurostile Medium
- Geneva
- Gill Sans
- Gill Sans Bold
- Gill Sans Bold Italic
- Gill Sans Condensed
- Gill Sans Condensed Bold
- Gill Sans Extra Bold
- Gill Sans Italic
- Gill Sans Light
- Gill Sans Light Italic
- Goudy Bold
- Goudy Bold Italic
- Goudy Extra Bold
- Goudy Oldstyle
- Goudy Oldstyle Italic
- Helvetica
- Helvetica Bold
- Helvetica Bold Oblique
- Helvetica Condensed
- Helvetica Condensed Bold
- Helvetica Condensed Bold Oblique
- Helvetica Condensed Oblique
- Helvetica Narrow
- Helvetica Narrow Bold
- Helvetica Narrow Bold Oblique
- Helvetica Narrow Oblique
- Appendix
- 123
- Helvetica Oblique
- Hoefler Ornaments
- Hoefler Text
- Hoefler Text Black

- Hoefler Text Black Italic
- Hoefler Text Italic
- ITC Avant Garde Gothic Book
- ITC Avant Garde Gothic Book Oblique
- ITC Avant Garde Gothic Demi
- ITC Avant Garde Gothic Demi Oblique
- ITC Bookman Demi
- ITC Bookman Demi Italic
- ITC Bookman Light
- ITC Bookman Light Italic
- ITC Lubalin Graph Book
- ITC Lubalin Graph Book Oblique
- ITC Lubalin Graph Demi
- ITC Lubalin Graph Demi Oblique
- ITC Mona Lisa Recut
- ITC Zapf Chancery Medium Italic
- ITC Zapf Dingbats
- Joanna
- Joanna Bold
- Joanna Bold Italic
- Joanna Italic
- Letter Gothic
- Letter Gothic Bold
- Letter Gothic Bold Slanted
- Letter Gothic Slanted
- Marigold
- Monaco
- New Century Schoolbook Bold
- New Century Schoolbook Bold Italic
- New Century Schoolbook Italic
- New Century Schoolbook Roman
- New York
- Appendix
- 124
- Optima Bold
- Optima Bold Italic
- Optima Italic
- Optima Roman

- Oxford
- Palatino Bold
- Palatino Bold Italic
- Palatino Italic
- Palatino Roman
- Stempel Garamond Bold
- Stempel Garamond Bold Italic
- Stempel Garamond Italic
- Stempel Garamond Roman
- Symbol
- Tekton Regular
- Times Bold
- Times Bold Italic
- Times Italic
- Times Roman
- Times New Roman
- Times New Roman Bold
- Times New Roman Bold Italic
- Times New Roman Italic
- Univers 45 Light
- Univers 45 Light Oblique
- Univers 53 Extended
- Univers 53 Extended Oblique
- Univers 55
- Univers 55 Oblique
- Univers 57 Condensed
- Univers 57 Condensed Oblique
- Univers 63 Extended Bold
- Univers 63 Extended Bold Oblique
- Univers 65 Bold
- Univers 65 Bold Oblique
- Univers 67 Condensed Bold
- Appendix
- 125
- Univers 67 Condensed Bold Oblique
- Wingdings
- OCR-B Letterpress M

Notes and Restrictions

Print Driver

The notes and restrictions that apply to each PostScript print driver is described in "Readme.txt" in the Drivers CD-ROM. Make sure to read the file before installing a print driver to your computer.

Troubleshooting

Refer to the User Guide for the error codes and error messages that appear on the control panel and for instructions on how to clear paper jams.

