

Document Centre 285/235 Series
User Guide (Printer)

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Preface


Welcome to Fuji Xerox Document Centre 285/235 Series.

Written with the new user in mind, this User Guide (Printer) provides all the necessary information about operating the printer functions of the printer as well as installing the printer drivers. To get the most out of the machine, please read this manual before using it.

This guide is written with the assumption that you are familiar with the basic knowledge and way of operating the different operating systems. Refer to the manuals of these products for information on them.

Note that this guide is written for users operating the Document Centre 285/235 Series with a client computer installed with an English edition operating system. Unless otherwise indicated, this guide is written for use with English edition operating system only.

After reading, keep this guide handy for a quick reference should you encounter any difficulties when using the machine.

In this manual, safety instructions are described with the symbol . Always read and follow these instructions before performing the required procedure.

This product is in the Class B category based on the standard of Voluntary Control Council for Interference from Information Technology Equipment (VCCI)*. If the machine is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the machine according to the instructions.

** This regulation applies only to Japan.*

This equipment conforms to the guidelines of the Japan Business Machine Makers Association on the harmonic effects by copiers and other reproduction devices. These guidelines conform to the guides on the harmonic suppressors of electronic appliances and general-purpose machines.

Reception interference:

When installed at a certain location, the machine may cause interference with radio and television reception. If you notice flickering or distorted images or noises on your audio-visual units, your machine may be causing radio interference. Switch it off, and if the interference disappears, the machine is the cause of radio interference. Perform the following procedures until the interference is corrected.

- Move the machine and the TV and radio away from each other.
- Reposition or re-orientate the machine and/or the TV and radio.
- Unplug the machine, TV and radio, and replug them into outlets that operate on different circuits.
- Re-orientate the TV and/or radio antennas and cables until the interference stops. For an outdoor antenna, you should ask your local electrician for support.
- Use coaxial cable antennas.

Types of Manuals

We provide the following manuals for optimum usage of the Document Centre 285/235 series machines:

- **User Guide (Copier)**

This manual comes with the machine.

This manual describes all the necessary steps for copying, clearing paper jams, daily care and safety information.

- **User Guide (Facsimile)**

You can find this manual in the optional fax unit package or models installed with a fax feature.

This manual describes all the necessary steps and troubleshooting when using a facsimile unit. The model installed with a fax feature or the optional fax unit package will be available after December 2001.

- **User Guide (Printer)**

You can find this manual in the optional printer kit package or models installed with a printer feature.

This manual describes all the necessary steps for printing, direct transmission from a personal computer and precautions.

- **User Guide (Scanner)**

You can find this manual in the optional kit package or models installed with a printer feature.

This manual describes all the necessary steps for scanner installation, operating information and precautions.

Note

The scanner feature is applicable only when fax and printer features are available. This feature and the scanner user guide will be available after December 2001.

- **Other manuals**

Some models may have such manuals in the package, depending on the availability of the application software option.

Using This Guide

Organization

The following is a summary of each chapter:

Chapter 1 Overview of the Printer

This chapter explains the interface connections, special features, printer functions and powering on/off.

Chapter 2 Setting Up

This chapter explains the cable connections and the increase/allocation of memory.

Chapter 3 Useful Operations

This chapter explains the operations that you need to know about using the printer functions such as cancelling printing/fax transmission, outputting and the main frame control panel operations during printing/transmission.

Chapter 4 Installing/Configuring the Printer Drivers

This chapter explains how to install printer drivers, set the printer properties, print and fax from an application in different OS environments.

Chapter 5 Mode Menu and Common Menu

This chapter explains about the two menus, Mode menu and Common menu and their menu items.

Chapter 6 Precautions and Limitations

This chapter explains the precautions and limitations of using the printer.

Chapter 7 Troubleshooting

This chapter explains how to solve problems when the printer is not functioning properly. When problems occur, read this first before treating it as a breakdown.

Appendix

This section provides information on the printing area, connector and allocation signals as well as the meanings of the terms used in this guide.

Conventions

1. In this manual, a host device refers to a personal computer or workstation and "FX Document Centre 285/235" refers to "Fuji Xerox Document Centre 285/235".
2. The following icons are used in this guide:



Instructions or important information for preventing equipment damage.



For your information. This indicates additional information on procedures of operations and features.



Indicates sources of references.

3. The following conventions are used in this guide.

Bold Face : *Bold face characters refer to selections made like options on the screen, hard or soft buttons, and keys from the keyboard.
For example: Press **Esc**.*

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Safety Precautions

Read these safety notes before using the printer functions of this machine.

Conventions and symbols

⚠ WARNING is used to alert operators to an operating procedure, practice or condition that, if not strictly observed, can result in severe injury or loss of life.

⚠ CAUTION is used to alert operators to an operating procedure, practice or condition that, if not strictly observed, might result in safety hazards to personnel or damage to the equipment.

△ This symbol is used to alert operators to a specific operating procedure that requires close attention. Read and follow instructions carefully to ensure the task is accomplished safely.



Heated surface



Flammable



Electric shock



Pinched fingers

⊘ This symbol is used to alert operators to a specific operating procedure that must not be performed. Read and follow instructions carefully.



Prohibited!



No fire



Do not tear down



Do not touch

● This symbol is used to alert operators to a specific operating procedure that should be emphasised for operating safety. Read and follow instructions carefully.



Instructions



Unplug



Ground/Earth

Precaution for power and earth connection

⚠ CAUTION



When connecting interface cable, make sure that the power of the main frame and host device is switched off to prevent the possibility of electricity shock.

Precaution for switching off the power

- When switching off the power for this machine with fax functions, check that the Document In Memory indicator light on the main frame control panel is off. If the power is switched off while the light is on, document data spooled in the memory will be erased.

Note

- *After being charged for 45 hours, this machine is able to keep the contents in memory for three hours.*
 - *If the Document In Memory indicator light is lit, check if there is any "Received document". If yes, follow the instruction on display and output it. Otherwise, output the list of stored document and check the contents.*
- When the power is switched off, print data remaining in the printer kit and information spooled in the memory of the printer kit will be erased.
Also, Secure Print/Sample Print data saved in the Hard Disk will remain but data that has not been saved completely will be deleted.
Before switching off the power during normal operation, check that the message "Ready to print" is shown on the display of the control panel.

Note

- *The memory used by the printer belongs to the printer kit, which is different from those used by the copier and fax functions. However, when the power is switched off, data will be erased from the memory.*

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1

Overview of the Printer

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1.1 Getting Ready to Print

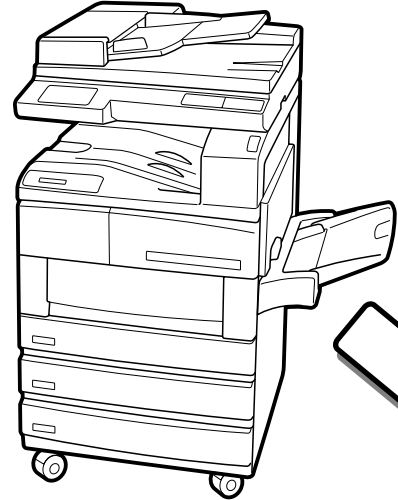
This section explains the procedure for setting up the printer. The flow of operations is as follows:

⚠ WARNING

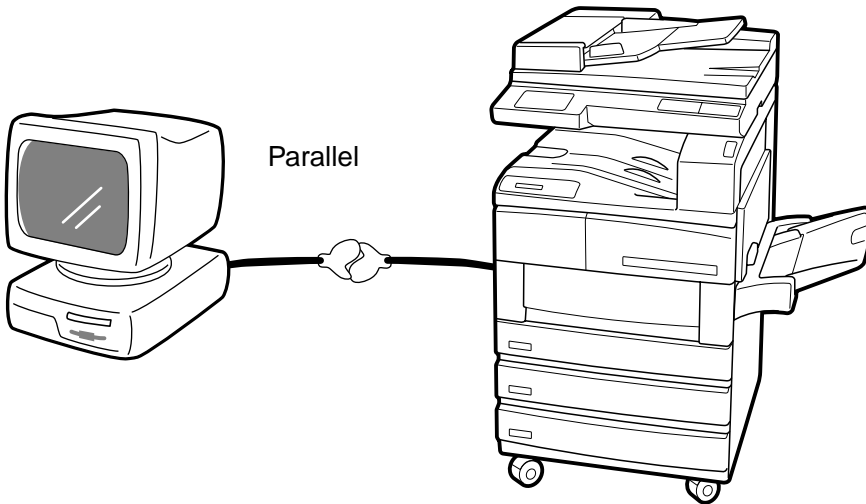
Check that the printer is switched off before handling it to prevent electric shock.

Connect the cable and allocate memory.

See
"Chapter 2 Setting Up"



When connecting to the host device directly



Carry out the necessary installation and setting to the computer. The printer control panel also needs to be set.

See
"Chapter 4 Installing/Configuring the Printer Drivers"

When the printer is used via a network, it is necessary to make settings on the different types of servers and the printer control panel.

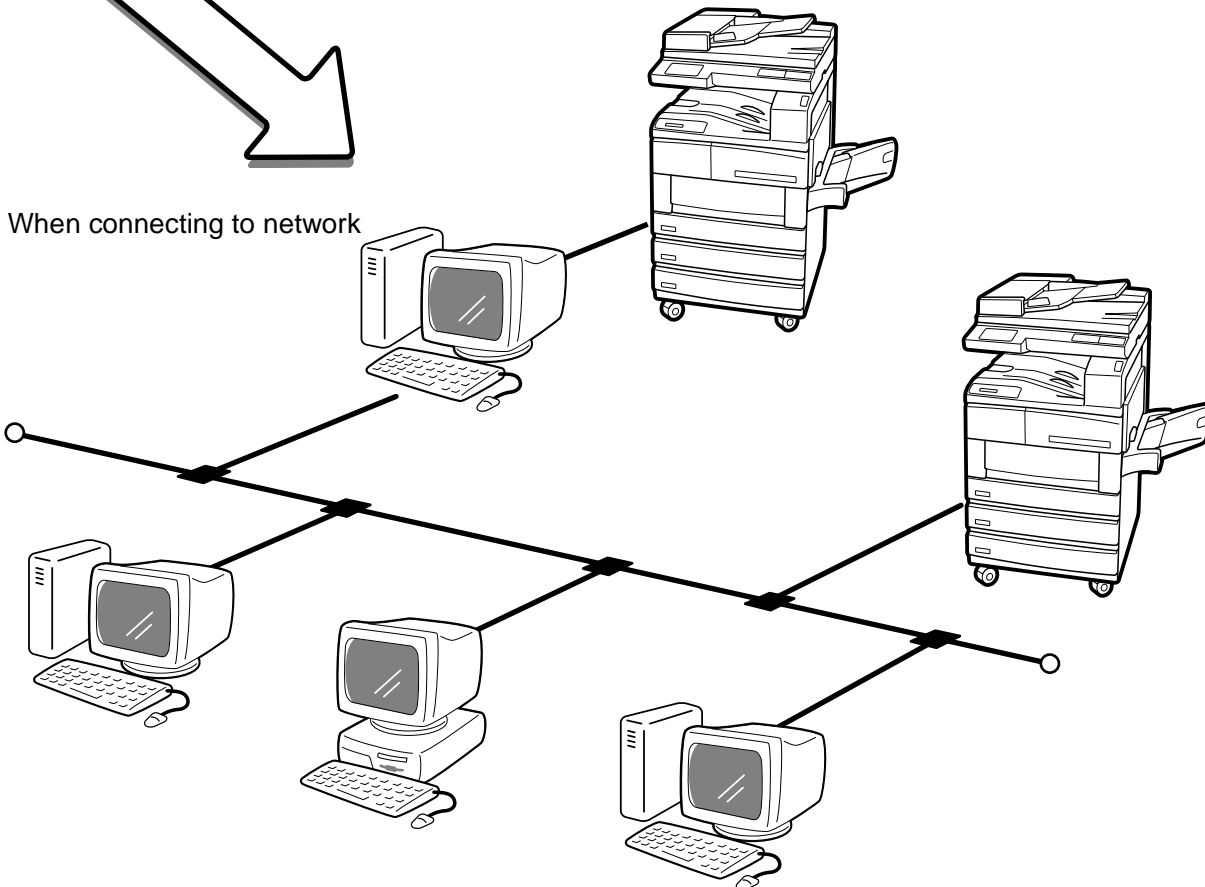
See

Network Print Environment User Guide (Network.pdf) in the PCL Driver/Network Utility (Windows®) CD-ROM regarding these settings.

Note

It is suggested that the memory be increased.

When connecting to network



1.2 Special Features of the Printer

This printer kit can be used as a network-compatible printer that can be connected directly to the network.

It can be installed with multi-emulation.

The special features of the printer are as follows:

- It is installed with PCL emulation. PostScript emulation is an optional feature.
- Printing can be specified without taking into consideration the printer language as there is an automatic printer language detection feature (applicable only when more than one emulation is installed).
- High quality printing can be achieved with its 400/600 dpi laser-style resolution. Also, it comes with an image-enhancement feature which can increase resolution and produce smooth printing without any notches (equivalent to 2,400 dpi).
- Besides the parallel and USB interfaces, it can be used in network (multi-protocol) environment through the installation of interface card for Ethernet or Token Ring. Token Ring is an optional feature.
- All the interfaces installed can receive data at the same time, except Ethernet and Token Ring which are mutually exclusive.
- Double-sided printing can be done by installing a duplex module.
- Multiple-copies sorting can be achieved through the electronic sorting feature (when installing the hard disk). Also, there is no need to rearrange pages as pages can be output with the printed side facing up without interrupting the page order.

Note

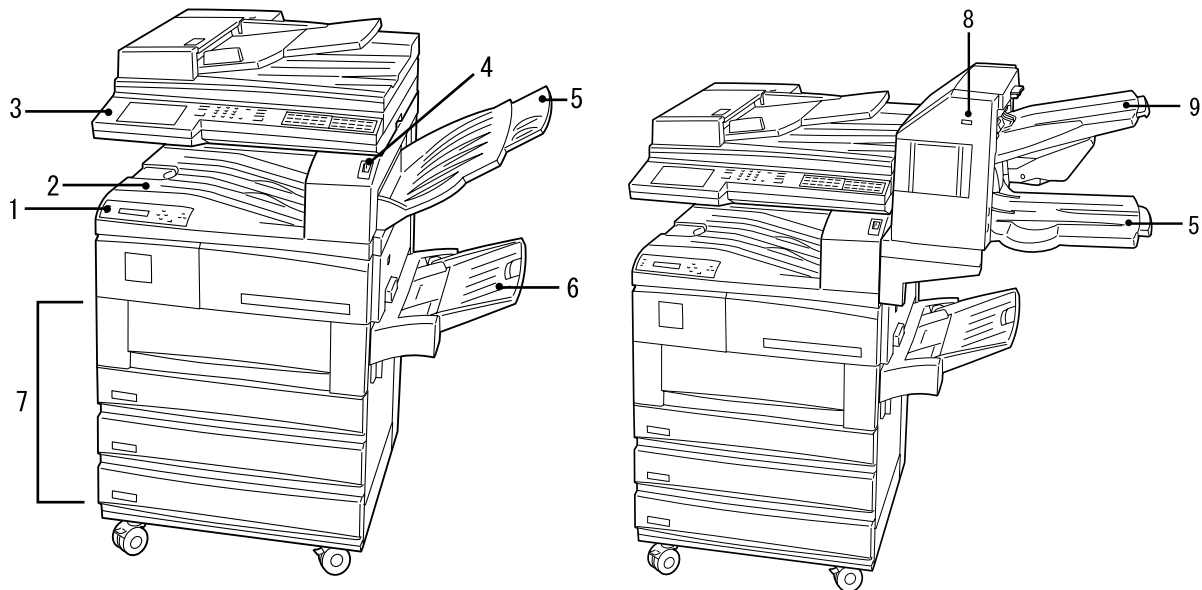
- *DPI is the abbreviation of Dot Per Inch and is the unit that indicates the number of dots that can be printed within a one-inch area. It is used as a unit indicating resolution.*
- *Protocol is the essential communication regulation for carrying out data transmission.*

1.3 Main Components and Their Functions

This section describes the names of the various parts of the printer kit. For other parts, see "1.1 Main Components and Their Functions" of the User Guide (Copier).

1.3.1 Parts of the printer kit

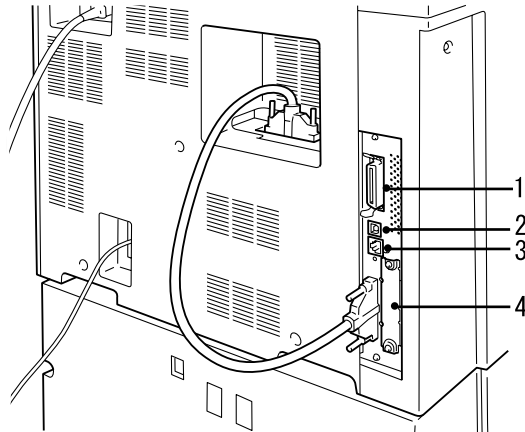
●●● Front view



1	Printer control panel	For use of printer functions.
2	Center output tray	For outputting printed copies, facing down.
3	Control panel	For use of copier functions. When necessary, it will also indicate that the machine is being used for printer functions.
4	Switch	For switching machine on/off.
5	Side output tray*	For outputting printed copies, facing up. When the optional finisher is installed, the lower tray of the finisher will become the side output tray.
6	Bypass tray*	For loading paper source that cannot be loaded in paper trays, like postcard or transparency.
7	Paper trays*	For loading paper. Tray 4 is an optional kit.
8	Pause/Resume button	For retrieving paper output to the finisher.
9	Finisher tray (upper)*	For outputting printed copies when the finisher is installed. Documents output here can be stapled. Finisher is an optional kit.

* optional kit but may be installed for certain models

●●● Back view



1	Parallel interface connector	For connecting this printer to a computer by a centronics/IEEE 1284-compliant interface cable.
2	USB interface connector	For connecting this printer to a computer by an USB cable.
3	Ethernet interface connector	For connecting this printer by an Ethernet interface cable.
4	Slot for Token Ring interface	For attaching an optional interface board (for Token Ring).

Note

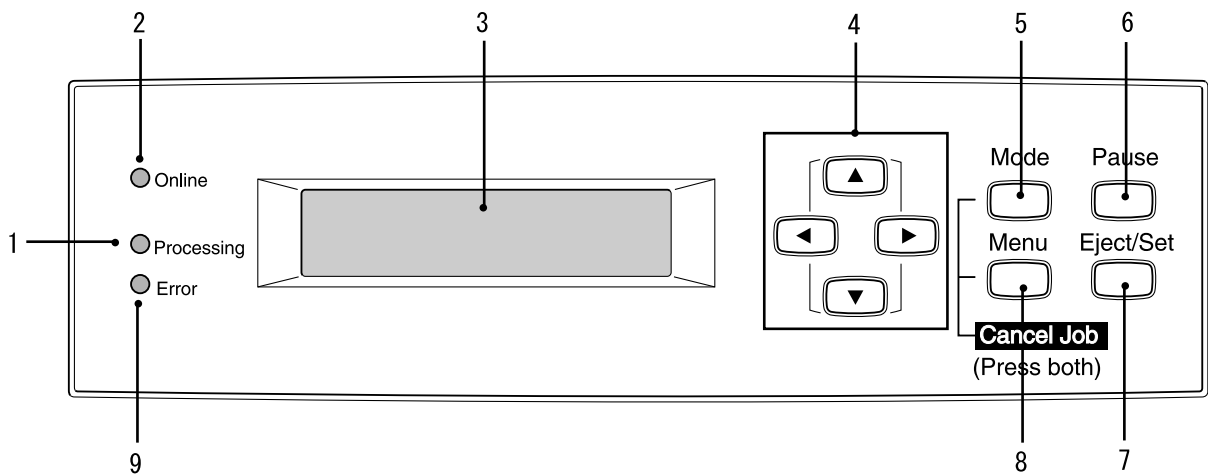
To install Token Ring, you will need an Token Ring Installation Kit besides the interface board (for Token Ring). Contact our Customer Support Center for installation of the kit by our customer engineers.









1.3.2 Printer control panel

The different parts of the printer control panel are as follows:

See

"1.3.3 Display message" for details on the messages of the display.



1	Processing indicator	When the light is on, indicates that this printer is processing print instructions.
2	Online indicator	When the light is on, indicates that this printer is ready to receive data from the computer.
3	Display	Shows settings, printer status, messages etc.
4	The up, down, right, left buttons	Press to navigate the menu, menu item, item and candidate value. In this manual, these four buttons will be displayed as  ,  ,  ,  .
5	Mode button	Press to enter to the mode menu. In this manual, it will be displayed as  .
6	Pause button	Press to enter to the pause state. When in the pause state, no data can be received and print instruction processed. Press again to exit the pause state. In this manual, it will be displayed as  .
7	Eject/Set button	Press to set the candidate value of the menu. Also used to print reports and lists. In this manual, it will be displayed as  .
8	Menu button	Press to navigate to the common menu. In this manual, it will be displayed as  .
9	Error indicator	When the light is on, indicates that there is a machine breakdown.

1.3.3 Display message

The display shows messages indicating the printer and settings status, and which may include the following screens.

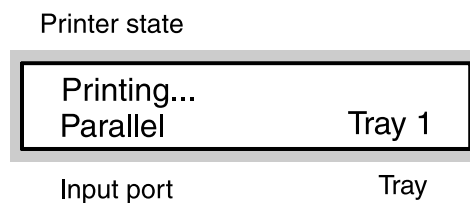
Note

Depending on the optional kits installed, printer settings, and printer model, some messages may not be displayed.

●●● Print screen

While printing or waiting for data, the display will show the print screen which indicates the printer status as well as the ongoing data processing.

As an example, the following message will be shown on the display when data has been received from the parallel port and is to be printed on paper from tray 1:



Printer state

Indicates the state of the printer.

Messages include "Please wait", "Ready to print", "Printing", "Canceling" and "Data wait".

See

"7.3 Messages" regarding the messages.

Input port

Indicates the input port that is receiving the data.

Messages include "Parallel", "IPP", "SMB", "EtherTalk", "LPD", "NetWare", "USB", "Port9100".


Tray

Indicates the paper tray for printing.

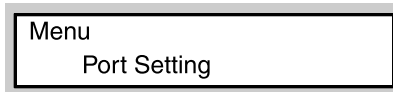
Messages include "Tray 1", "Tray 2", "Tray 3", "Tray 4", "Bypass".

●●● Common menu screen

The screen to set items common to all print modes.

To display the common menu screen, press .

As an example, the screen to set Port Setting is displayed as follows:




 See

"5.3 Common Menu Items" for details on the Common menu screen.

●●● Mode menu screen

The screen to fix setting for emulation processing.

To display the mode menu screen, press .

As an example, the screen to set PCL Settings is displayed as follows:



 See

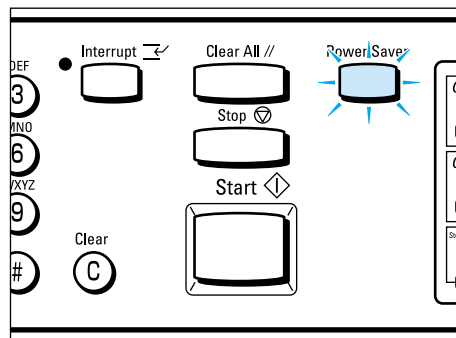
"5.2 Mode Menu Items" for details on the mode menu screen.

1.3.4 Power Saver Mode

This machine has a power saver feature that reduces the power consumption when the machine is switched on and left unused for a certain duration. There are three modes in this power saver feature.

- Standby mode: The motor is left idle.
- Low power mode: The temperature of the heater area is kept low and the motor is left idle.
- Sleep mode: The main power is switched off (the mode which can save the most power).

When the machine is in Low power mode or Sleep mode, the touch panel display will be off and the **Power Saver** lights up.



When print data is received from the computer, the machine will automatically exit the power saver mode and start processing printing.

You can exit the power saver mode by pressing the illuminated **Power Saver**.

Note

To use the printer control panel during power saver mode, exit the mode first by pressing **Power Saver**.

2

Setting Up

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2.1 Setting Printer Environments

This section explains the different printer environments that can be set up for the printer. When connected to a computer directly, the printer can be used as a local printer. When connected to a network, the printer can be used as a network printer. As this printer supports multi-protocol, it can be shared among users from different network environments.

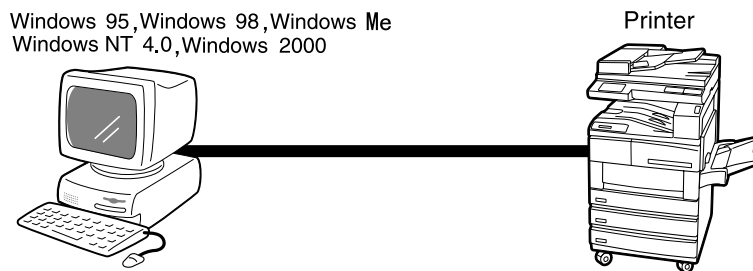
2.1.1 As a local printer

●●● Using parallel interface

Connects the printer to a computer by parallel interface for printing.

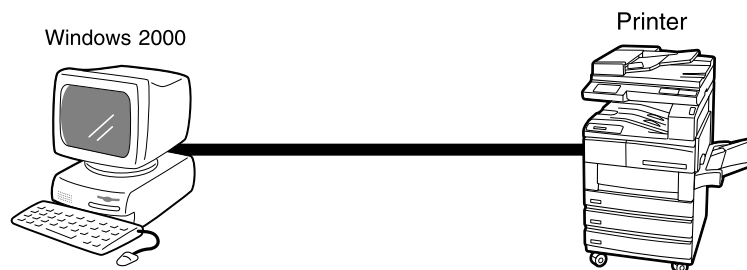
LOOK

Use only the parallel interface cable provided by our company, as an optional product. Using parallel interface cable from other company might lead to electric wave obstruction.



●●● Using USB interface

Connects the printer to a computer by USB cable for printing.



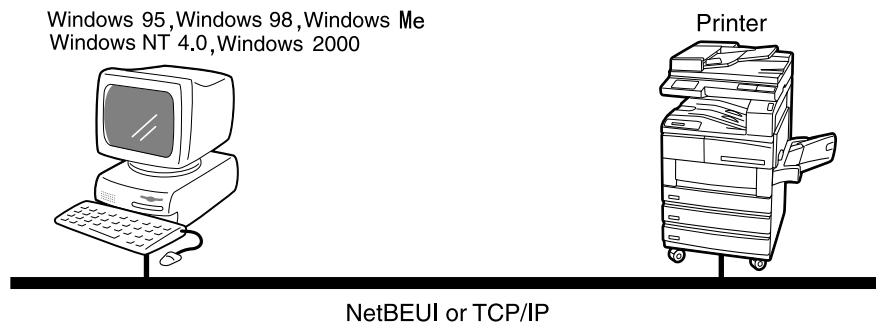
2.1.2 As a network printer (Ethernet interface)

Windows Network (SMB)

Server Message Block (SMB) is a protocol for sharing file or printer on Windows[®] 95, Windows[®] 98, Windows[®] Me, Windows NT[®] 4.0, and Windows[®] 2000. Using SMB, print data or settings can be sent directly to a printer on the same network (Ethernet interface) without going through the server.

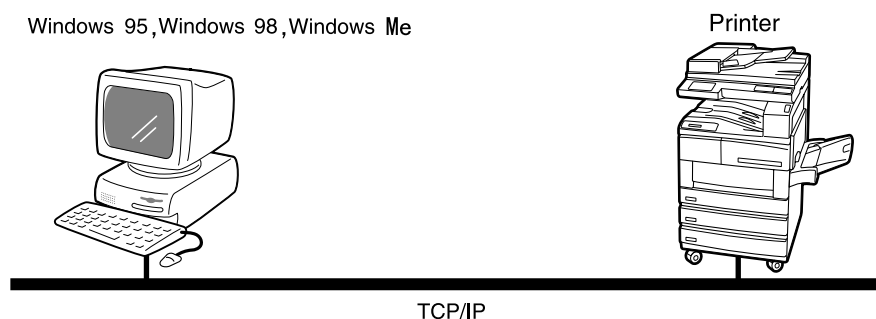
As this printer supports SMB, you can print by just activating the SMB port and registering the printer on the network on each of the Windows 95, Windows 98, Windows Me, Windows NT 4.0 and Windows 2000 operating system (OS).

You can use NetBEUI and TCP/IP as the transport protocol for SMB.



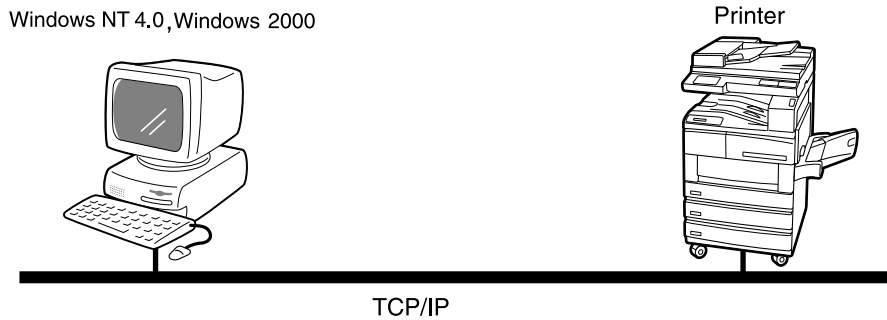
TCP/IP Direct Print Utility (Windows 95, Windows 98, Windows Me)

TCP/IP Direct Print Utility is a software developed by our company to allow print data to be sent directly from a Windows 95, Windows 98, Windows Me computer to a printer on the same network (Ethernet interface) without going through the server. As this printer supports TCP/IP (LPD) protocol, the print data can be sent directly and printed from the Windows 95, Windows 98, Windows Me computer when using this software. You will need to set the IP address on the printer and the Windows 95, Windows 98, Windows Me computer.



●●● **TCP/IP (Windows NT 4.0, Windows 2000)**

As this printer supports TCP/IP protocol, print data can be sent directly from a Windows NT 4.0, Windows 2000 computer for printing, not only using SMB but LPR as well. You will need to set the IP address on the printer and the Windows NT 4.0, Windows 2000 computer. And once the printer registered on the Windows NT 4.0, Windows 2000 computer is shared, you can also print from Windows 95, Windows 98, Windows Me computer through this printer.

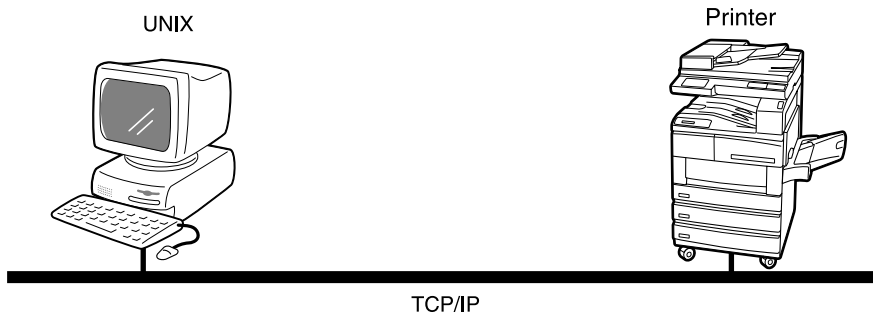


●●● **TCP/IP (UNIX)**

As this printer supports TCP/IP protocol, you can print from a UNIX machine. You will need to set the IP address on the printer and the UNIX machine.

See

Network Print Environment User Guide (Network.pdf) in the PCL Driver/Network Utility (Windows®) CD-ROM for details on printing from the UNIX machine.

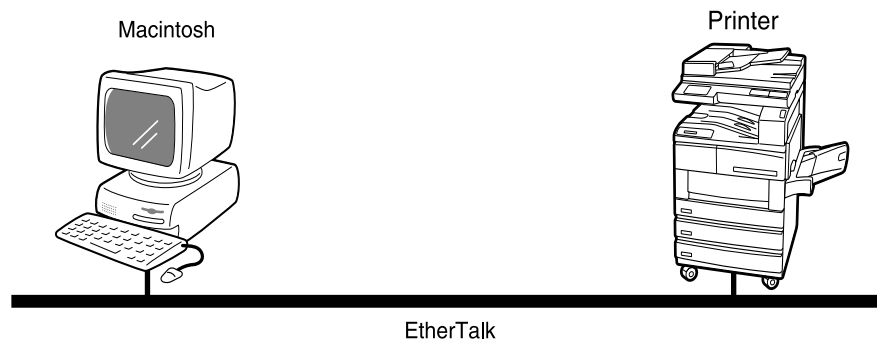


●●● AppleTalk

As the printer supports AppleTalk protocol, you can print from a Macintosh using EtherTalk.

Note

You will need the optional PostScript Kit for using EtherTalk to print. Refer to the manuals bundled with the PostScript Kit for details on using it.



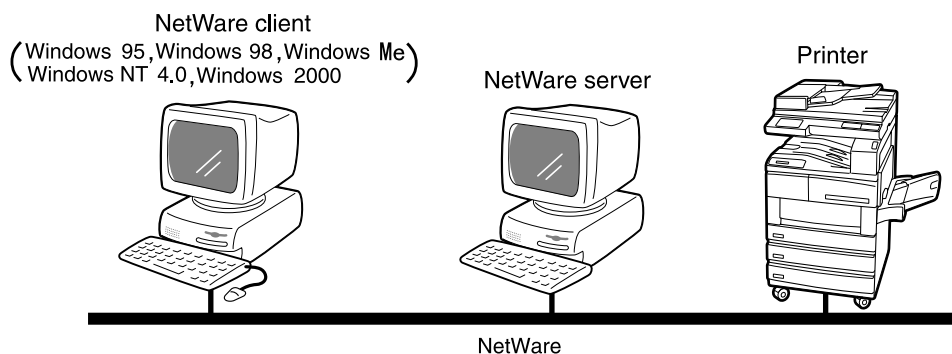
●●● NetWare®

As a network OS, this printer supports Novell NetWare (version 3.12, 3.2, 4.11, 4.2, 5, 5.1) as well as the print server (PServer) mode only using bindery and NDS (version 4.11 and above). In the PServer mode, the printer will be the the print server and will print out jobs in the print queue. This printer uses one user licence of the file server.

You can use IPX/SPX and TCP/IP as the protocol for NetWare.

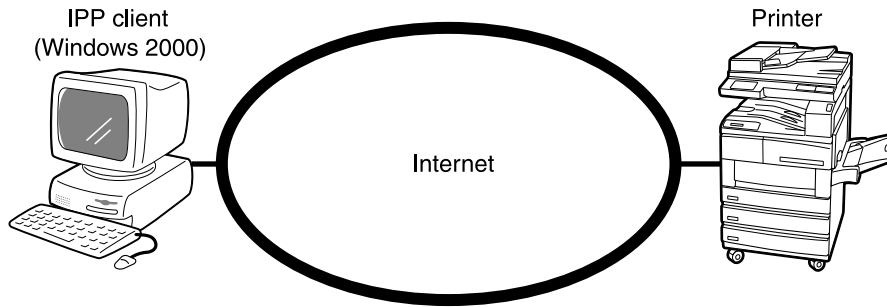
See

Network Print Environment User Guide (Network.pdf) in the PCL Driver/Network Utility (Windows®) CD-ROM for details on using NetWare for printing.



●●● **Internet printing**

This printer supports Internet Printing Protocol (IPP). As Windows 2000 is installed with the client software needed to output to IPP printer, you can specify the printer to support IPP using the Add Printer Wizard. Using IPP, you can print to a remote printer through the internet or intranet.

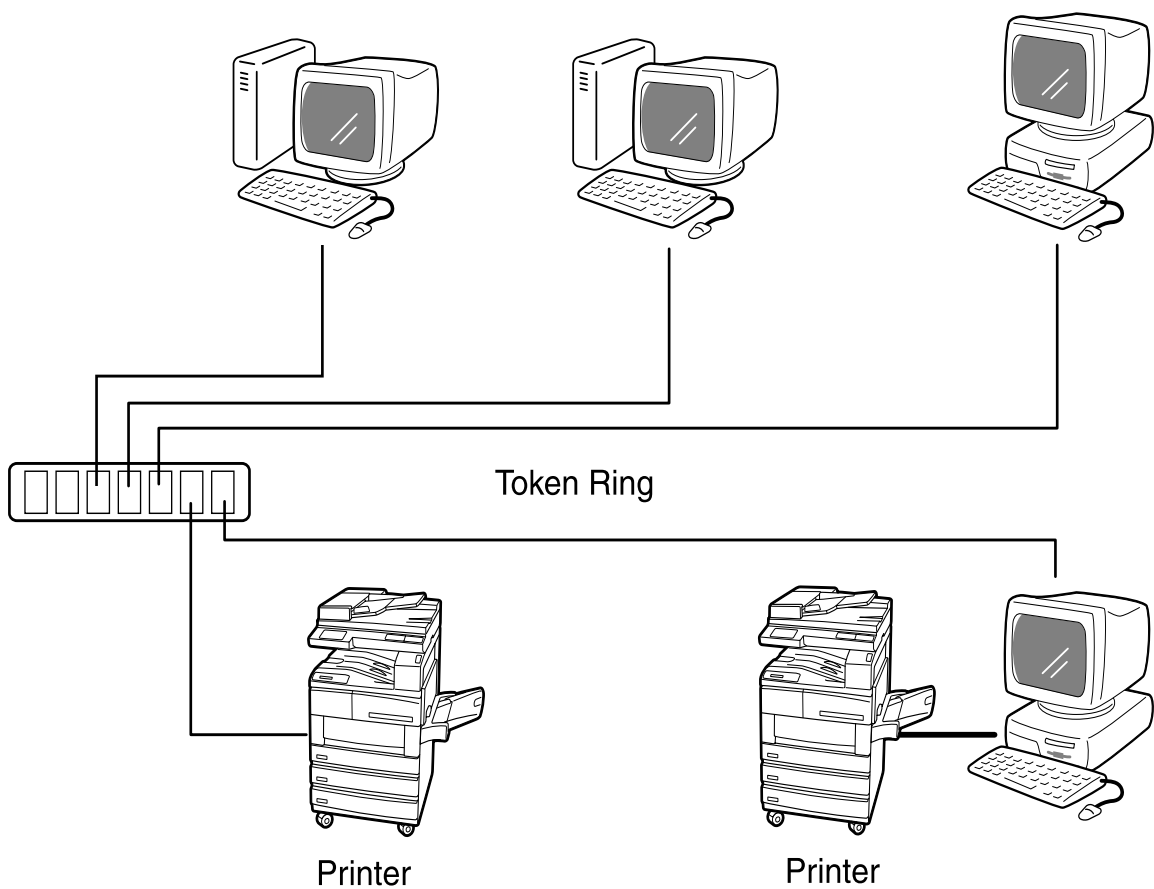


2.1.3 As a network printer (Token Ring interface)

This printer supports Token Ring. When installed with the optional interface board for Token Ring, you can use the printer in a network environment with NetWare or TCP/IP existing alone or together.

Note

When the interface board for Token Ring is installed, the Ethernet interface cannot be used. Also, the items that can be set are also different. Refer to "2.2.4 Connecting by Token Ring interface" for details.



2.2 Connecting Cable

This section describes connecting by cable, to the interface of the environment to be used.

⚠ WARNING

Remember to switch off the power supply during installation to prevent electric shock.

LOOK

You cannot use the optional Token Ring interface together with Ethernet interface.

2.2.1 Connecting by parallel interface

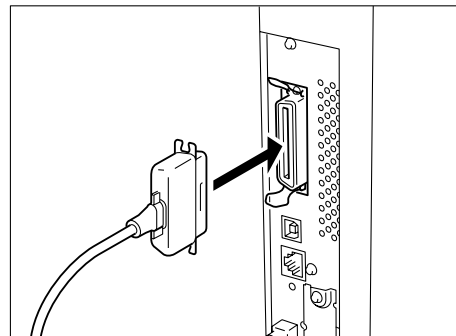
The following procedure explains how to connect by the parallel interface.

Note

To connect by the parallel interface, you will need the parallel interface cable provided by our company as an optional product. For details, consult our Customer Support Center.

Procedure

- 1 Insert the interface cable connector to the parallel interface connector and secure it by the wire clips on both sides.
- 2 Connect the other end of the interface cable connector to the computer.
- 3 Switch on the printer.



If necessary, set the following items on the printer control panel (Network/Port > Parallel):

- Print Mode (Factory setting: Auto)
- PjL (Factory setting: Enable)
- Adobe Protocol (Factory setting: Normal)
- Auto Eject Time (Factory setting: 30 Secs)
- Bi-directional (Factory setting: Enable)

See

"5.3 Common Menu Items" for details on the individual item and the setting method.

Note

For normal use, there is no need to change the factory settings of all the items.

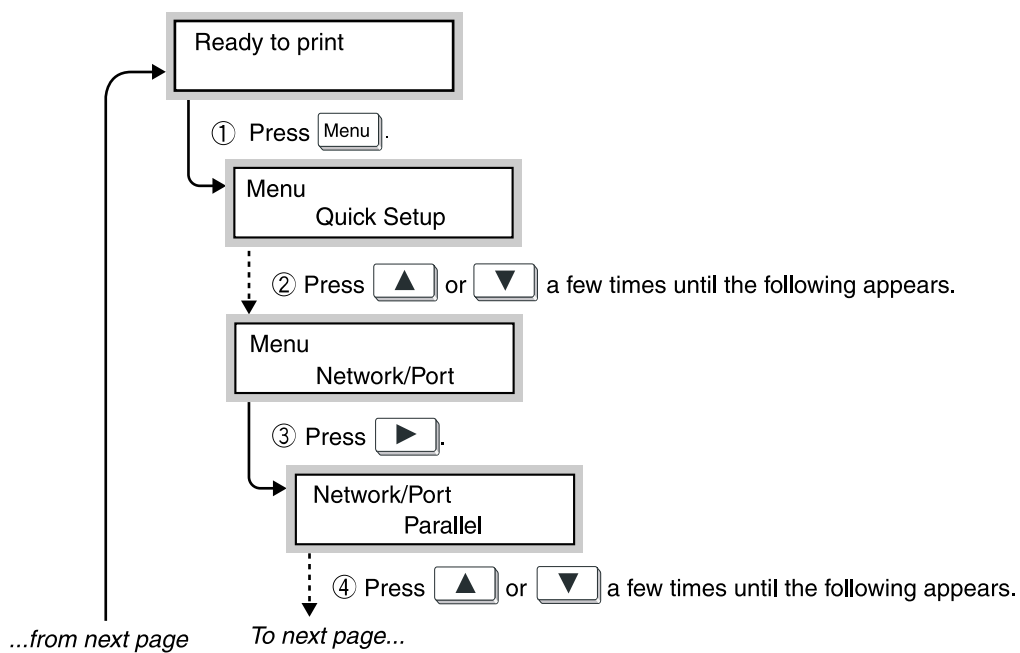
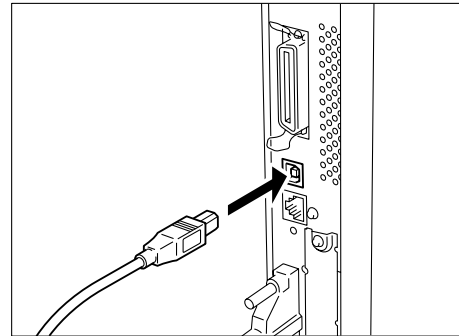
2.2.2 Connecting by USB interface

The following procedure explains how to connect by the USB interface.

Note

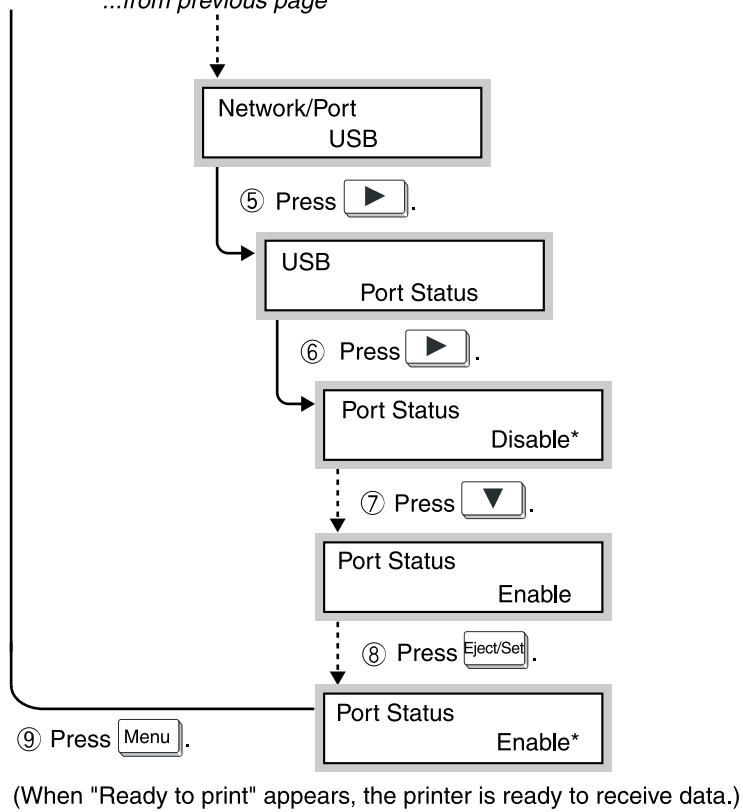
USB is supported by Windows 2000 only.

- ① Insert the USB cable connector to the USB interface connector.
- ② Connect the other end of the interface cable connector to the computer.
- ③ Switch on the printer.
- ④ On the printer control panel, set the USB Port to Enable.
Proceed by following the procedure below:



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...from previous page



If necessary, set the following items on the printer control panel (Network/Port > USB):

- Print Mode (Factory setting: Auto)
- PjL (Factory setting: Enable)
- Adobe Protocol (Factory setting: Normal)
- Auto Eject Time (Factory setting: 30 Secs)

See

"5.3 Common Menu Items" for details on the individual item and the setting method.

Note

For normal use, there is no need to change the factory settings of all the items.

2.2.3 Connecting by Ethernet interface

The Ethernet interface supports the following two types of environment:

- 100BASE-TX
- 10BASE-T

Note

The factory setting of Ethernet is set as Auto, enabling automatic switching to 100BASE-TX or 10BASE-T.

The following procedure explains how to connect by the Ethernet interface:

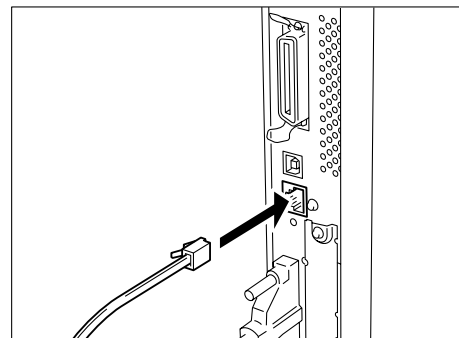
Procedure

- 1 Insert the Ethernet interface cable connector to the interface connector.

Note

Use only interface cable suitable for the network connection in use.

- 2 Switch on the printer.



When you want to fix the transmission speed for 10BASE-T or 100BASE-TX connector or change the printer setting according to the environment in use while connected to 10BASE-T/100BASE-TX connector, refer to "5.3 Common Menu Items".

2.3 Using Quick Setup Menu

When setting up the printer environment, you can use the Quick Setup menu to set the basic necessary items all at once.

●●● Quick Setup menu items

The following menu items can be set by the Quick Setup menu. Set each item by answering the questions displayed on the printer control panel.

Item	Remarks
Sets whether you want an auto print of the Job History Report.	The Job History Report includes information on the latest 50 print jobs. Sets whether you want to print the Job History automatically for every 50 print jobs reached.
Sets system clock.	The system clock displays the date and time in the following formats: <ul style="list-style-type: none">• YYYY.MM.DD (year.month.date) (for years between 2000-2099 only)• HH:MM (hour:minute). The date and time set here will be printed in lists and reports.
Sets the network port, protocol and spool setting.	You can use the Quick Setup menu to define settings for multiple ports all at once: <ul style="list-style-type: none">• SMB, LPD, IPP, NetWare, EtherTalk (optional) Sets the port, protocol and spool setting to be used for the network environment.• SNMP Sets this when using software like for managing multiple printers remotely.
Sets whether to use Internet Service.	The CentreWare Internet Services can be used, through a web browser, to display the printer/job status and change the printer settings.
Sets whether to use Dynamic Host Configuration Protocol (DHCP), BOOTP or RARP as well as to set the IP address. (To be set only when using TCP/IP)	Sets whether to obtain automatically essential information for using TCP/IP (e.g. IP address, subnet mask, gateway address) from the DHCP server, BOOTP or RARP. Enter the IP address manually if the DHCP server, BOOTP or RARP is not used.

Note

You can also specify settings for the individual items without using the Quick Setup Menu. For items that cannot be set using the Quick Setup Menu or details on setting individual items, refer to "2.4 Flow of Setting Different Printer Environments" and "5.3 Common Menu Items".

●●● Procedure for setting the Quick Setup Menu

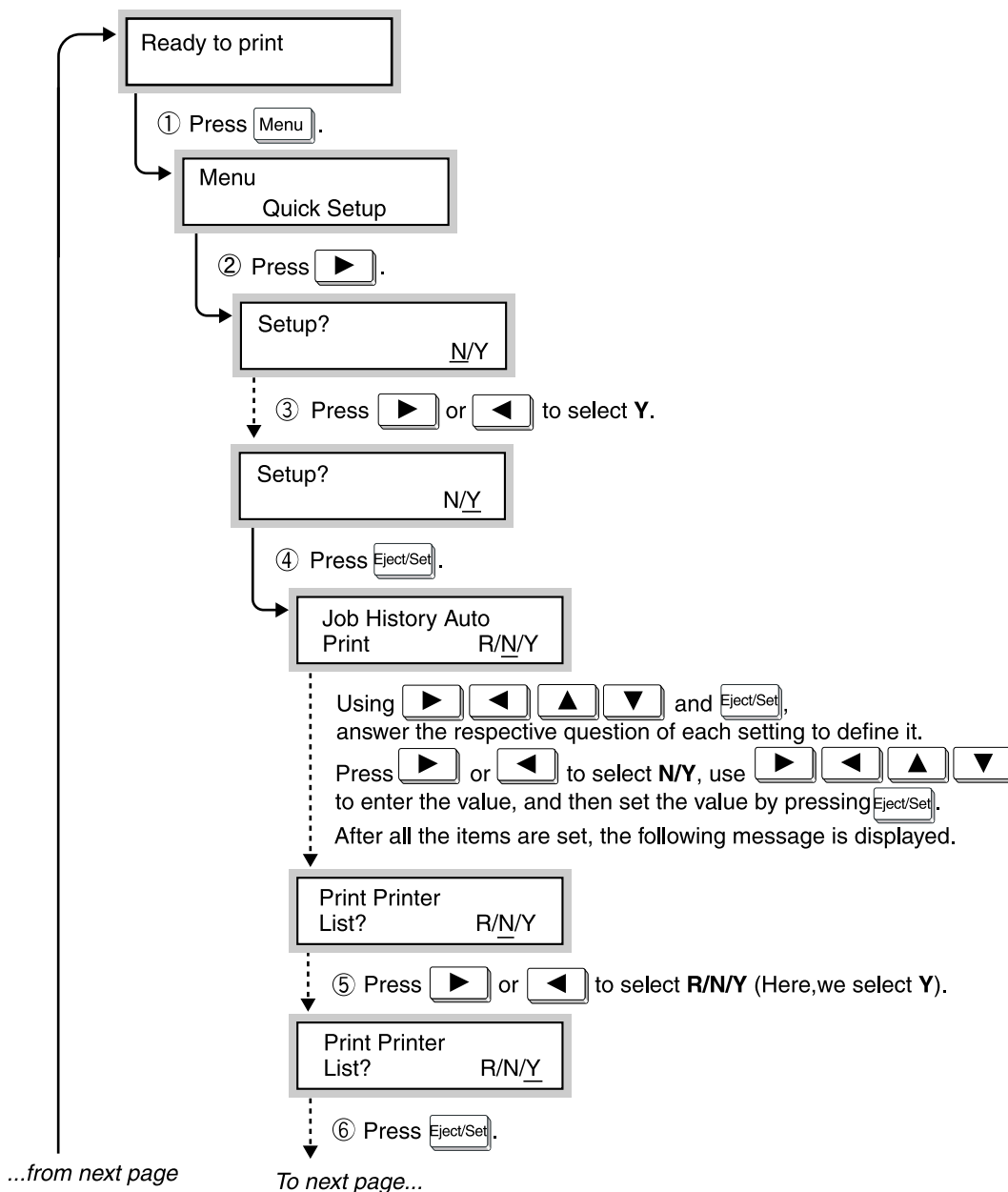
Follow the procedure below to set essential settings using the printer control panel.

LOOK

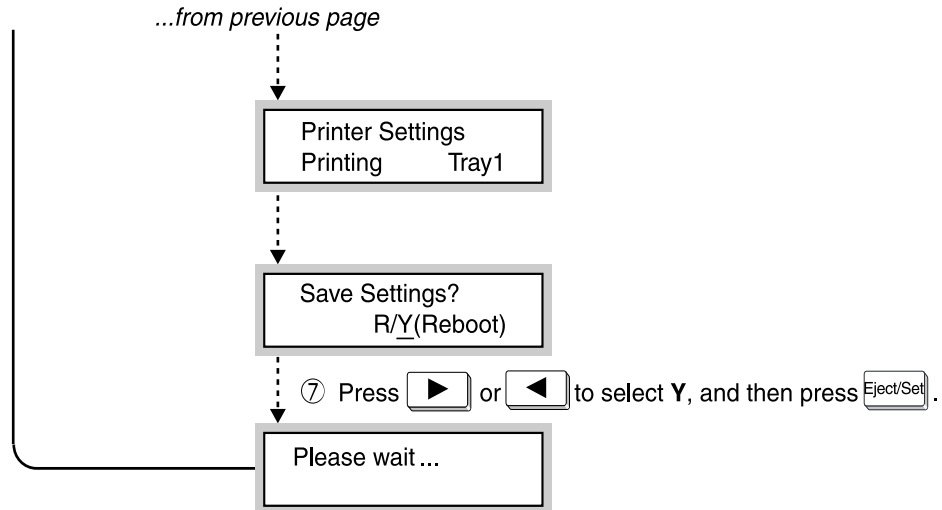
When using the Quick Setup Menu to change settings, select **Y** for Save Settings to save settings and reboot before printing the Printer Settings List.

Note

- During setting up, the settings will not be valid if your press **Menu**.
- R: Reboot; Y: Yes; N: No.



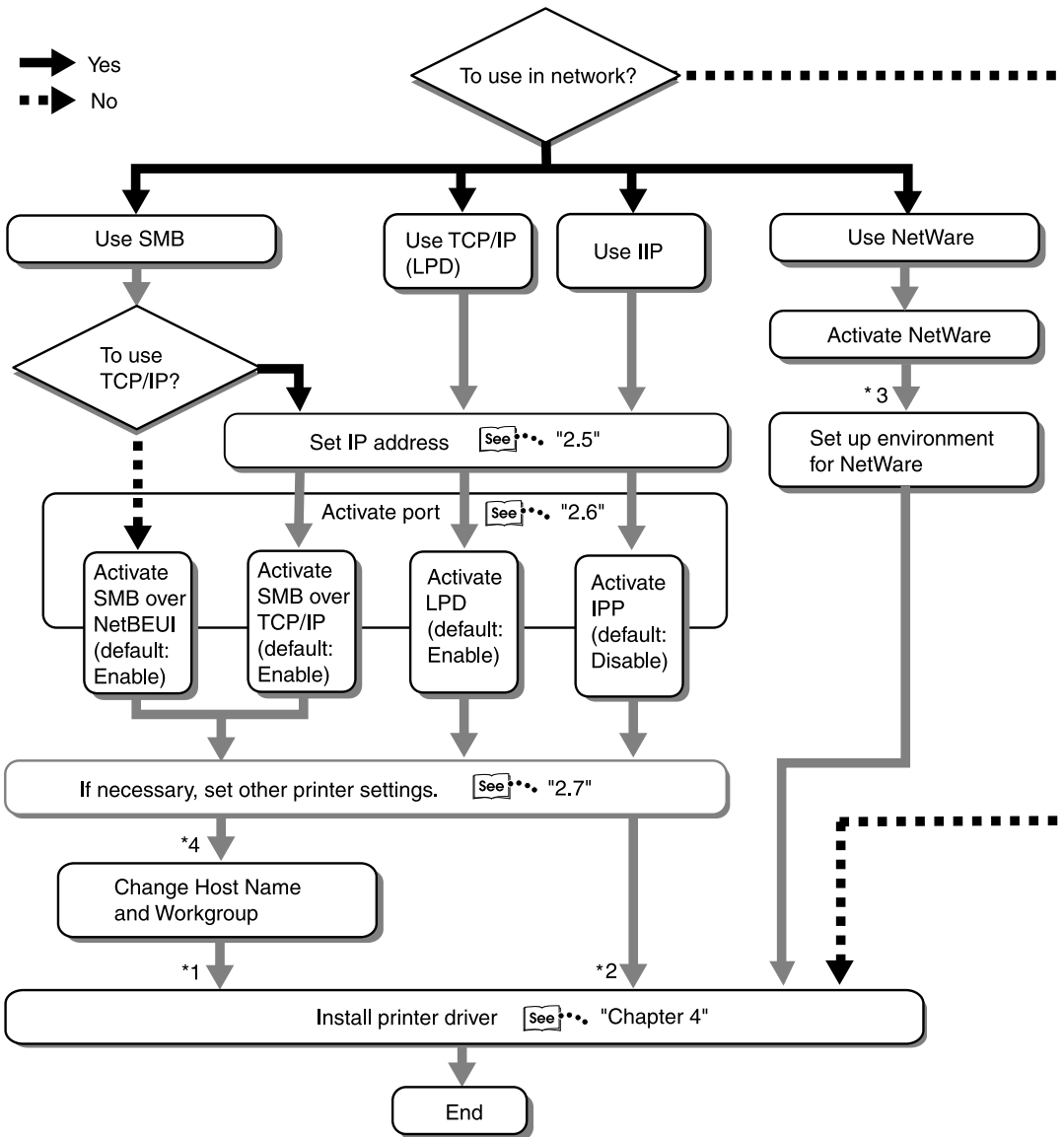
To previous page...



(When "Ready to print" appears, the printer is ready to receive data.)

2.4 Flow of Setting Different Printer Environments

This section explains the flow of setting the printer environment for the different environment in use. Check the necessary settings for the respective printer environments as you proceed by following the flow chart. When using EtherTalk, refer to the manual bundled with the PostScript Kit.



- *1 You can install the printer driver from the attached CD-ROM or download it automatically. Refer to the Network Print Environment User Guide (Network.pdf) in the PCL Driver/Network Utility (Windows®) CD-ROM.
- *2 For details on the procedure to install the printer driver when using IPP, refer to the above-mentioned Network.pdf file.
- *3 For details on the procedure to set up the environment for using NetWare, refer to the above-mentioned Network.pdf file.
- *4 For details on the procedure to change the host name and workgroup name, refer to the above-mentioned Network.pdf file.

Setting Up
2

2.5 Setting IP Address

This section explains how to set the *IP address*.

Depending on the network environment, you may need to set the *subnet mask* and *gateway address*. If your network has a Dynamic Host Configuration Protocol (DHCP), BOOTP or RARP environment, the printer can obtain these items automatically from each of the server.

By the factory setting, these items are obtained automatically from the DHCP server.

LOOK

- Use the DHCP server together with the Windows Internet Name Service (WINS) server at the same time. When using the WINS server, set settings if necessary, by selecting the following on the printer control panel: **Network/Port**, followed by **WINS Server**, and then the various items.
- When using the BOOTP or RARP server, select the following on the printer control panel: **Network/Port**, followed by **TCP/IP Settings**, **Get IP Address**, and then **BOOTP** or **RARP**. Check with your system administrator if you have any queries on the BOOTP or RARP environment.

See

"5.3 Common Menu Items" for details on each of these items and the way to set them.

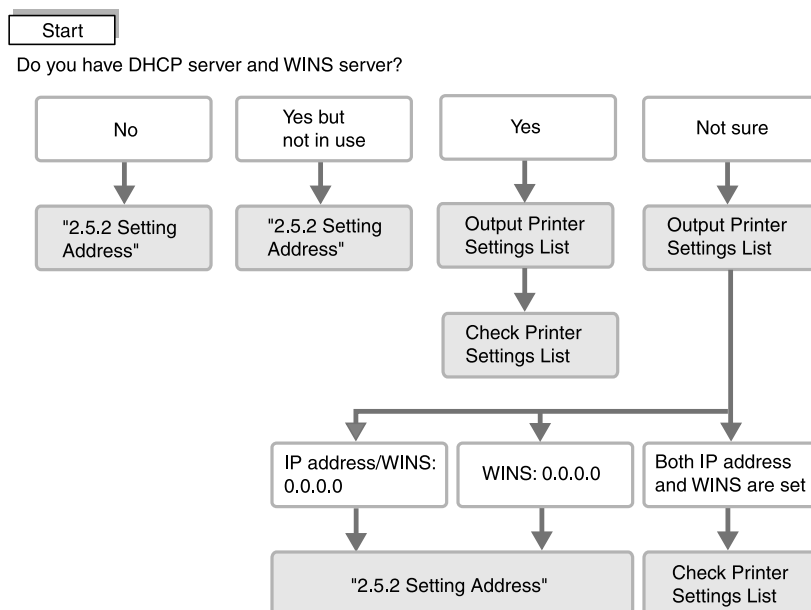
2.5.1 Flow of setting

When the IP address is obtained automatically from the DHCP, BOOTP or RARP server, you do not need to follow the procedure in this section to set the IP address.

When you need to set the IP address manually using the printer control panel, refer to "2.5.2 Setting Address".

When you are unsure whether you have a DHCP server, follow the procedure below to check. If you do not have a DHCP server, set the IP address by referring to "2.5.2 Setting Address".

●●● Checking DHCP server



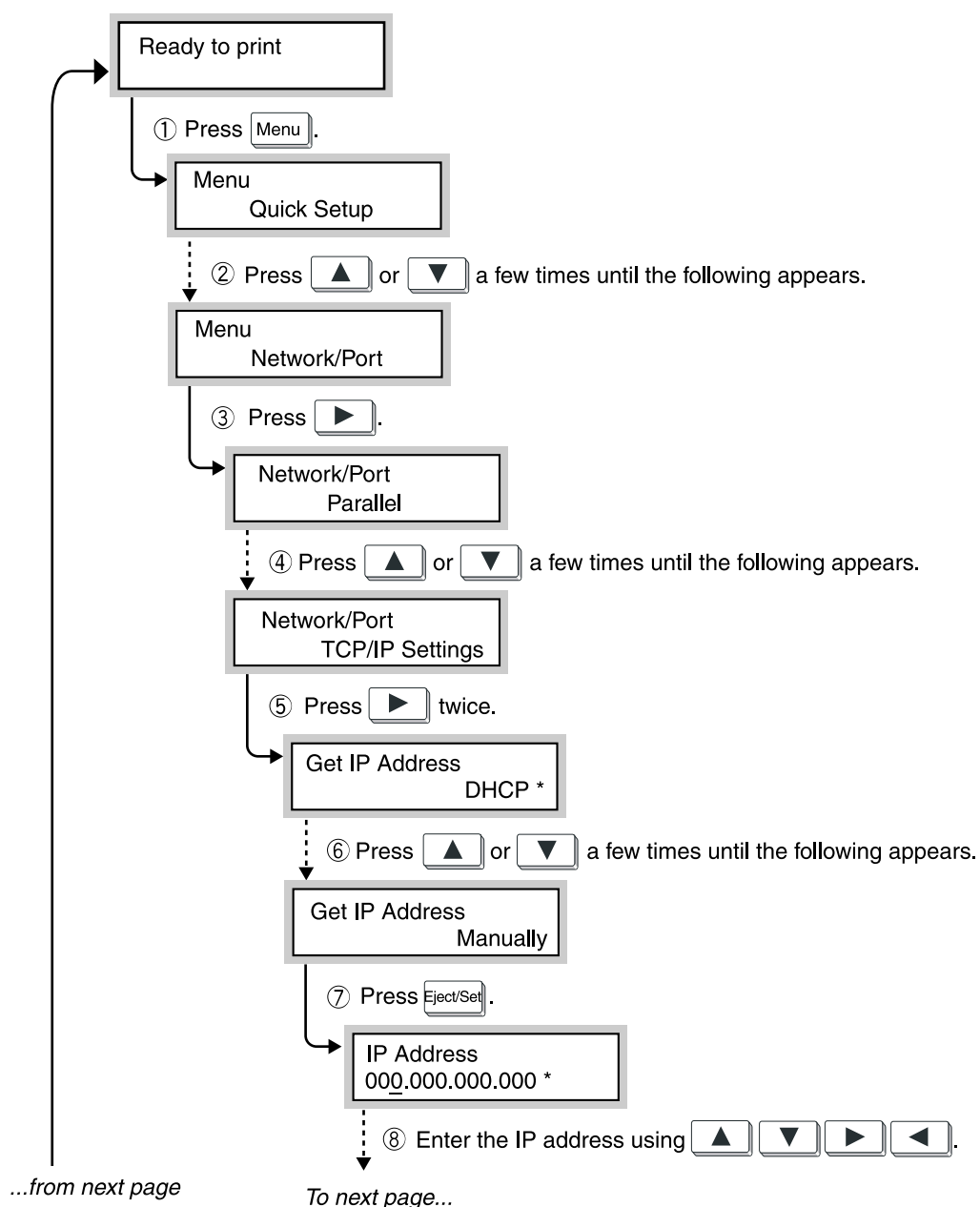
Note

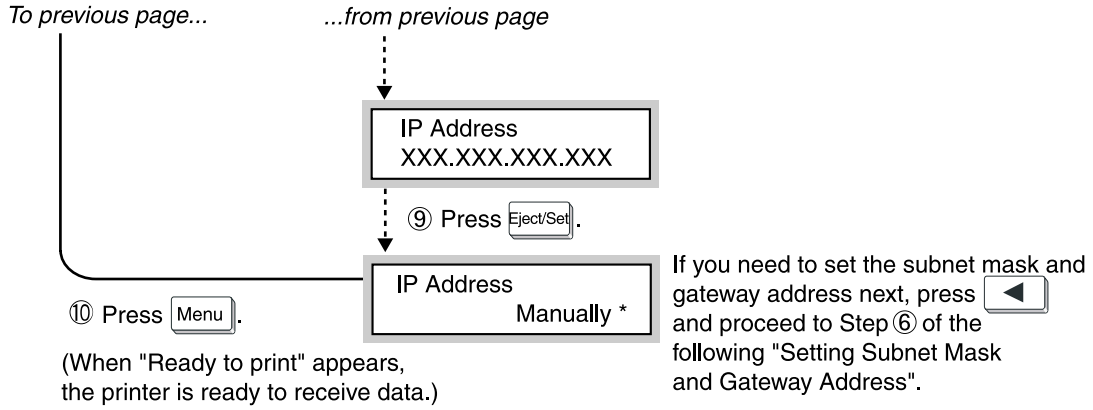
Check with your system administrator if you have any queries on DHCP environment.

2.5.2 Setting Address

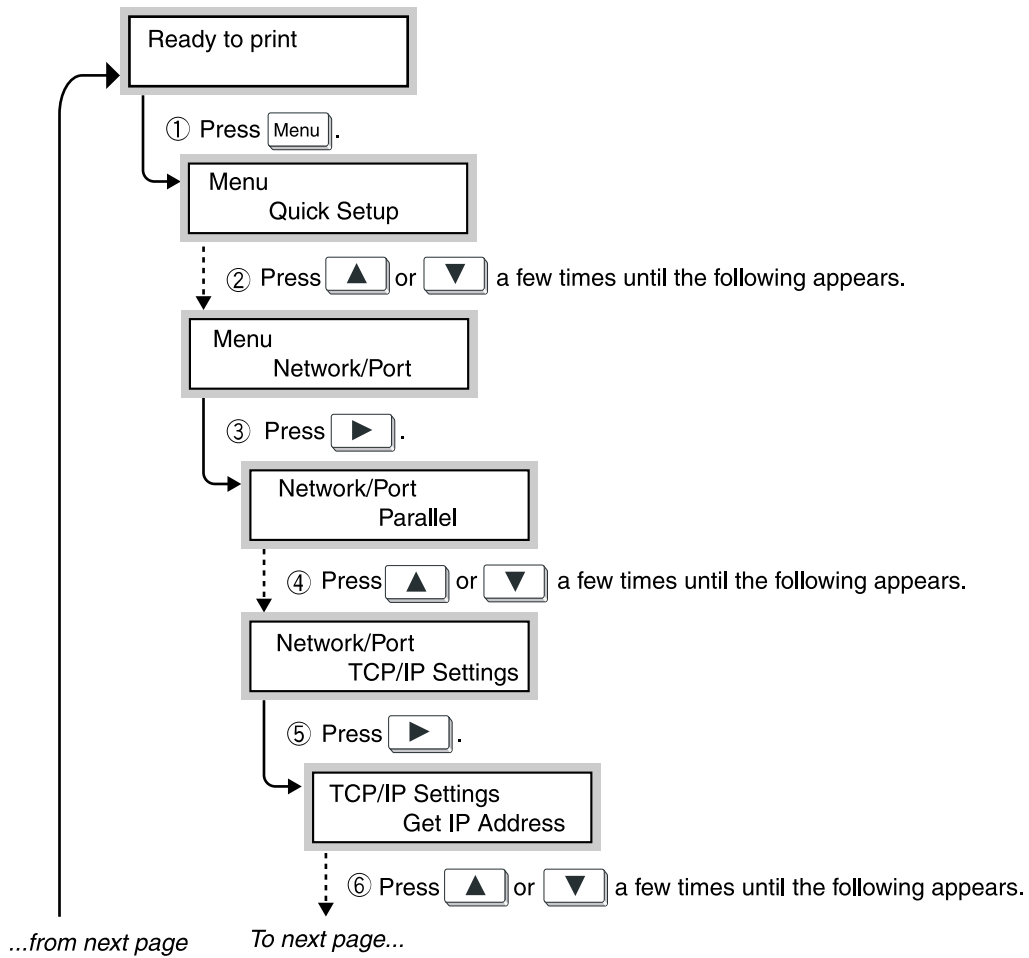
The following procedure explains how to set the IP address from the printer control panel. Depending on the network used, you may need to set the subnet mask and gateway address. Consult your system administrator before setting the essential items. Take note that the initial display of the IP address setting might be different. If the message initially displayed is "Unable to get IP Address", proceed from Step ② after pressing **Menu**.

●●● Setting IP Address



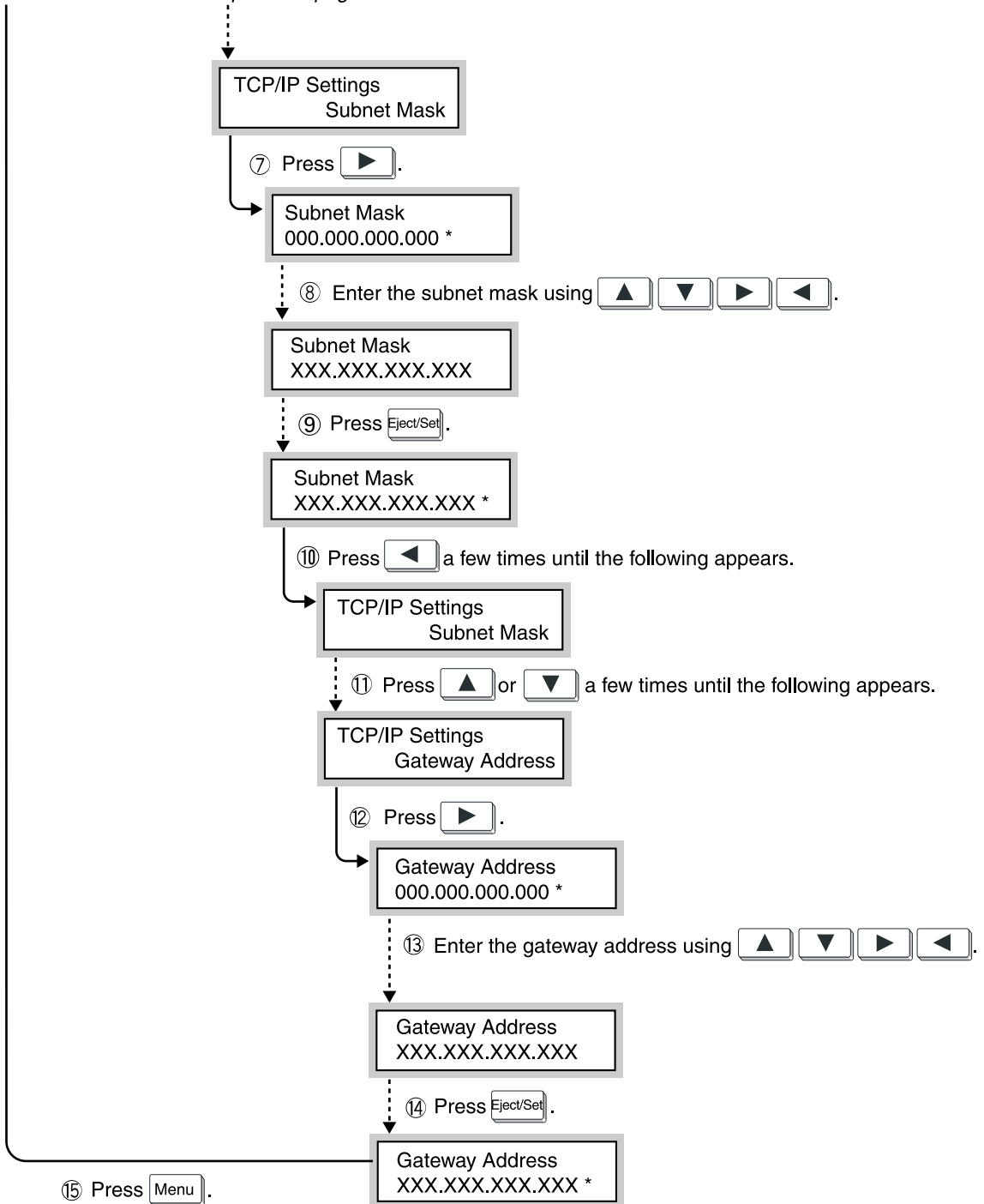


●●● **Setting Subnet Mask and Gateway Address**



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...from previous page



(When "Ready to print" appears, the printer is ready to receive data.)

2.6 Setting Port

Activate the port to be used from the printer control panel.

If the settings have already been set to Enable, the procedure here is not needed. Follow the procedure here only if the settings have been set to Disable.

You can also set the port settings from CentreWare Internet Services. For details, refer to "5.5 CentreWare Internet Services".

●●● When using TCP/IP (LPD)

- (LPD) Port Status (factory setting: Enable)

See

"2.6.1 Activating port" for details on activating LPD port.

●●● When using internet printing

- (IPP) Port Status (factory setting: Disable)

See

"2.6.1 Activating port" for details on activating IPP port.

●●● When using SMB

- (SMB) Port Status (factory setting: Enable)
- (SMB) Transport Protocol (factory setting: TCP/IP, NetBEUI)

See

"2.6.2 Setting the port and transport protocol" for details on setting the SMB port and transport protocol.

●●● When using software for managing printer remotely

- (SNMP) Port Status (factory setting: Enable)
- (SNMP) Transport Protocol (factory setting: UDP)

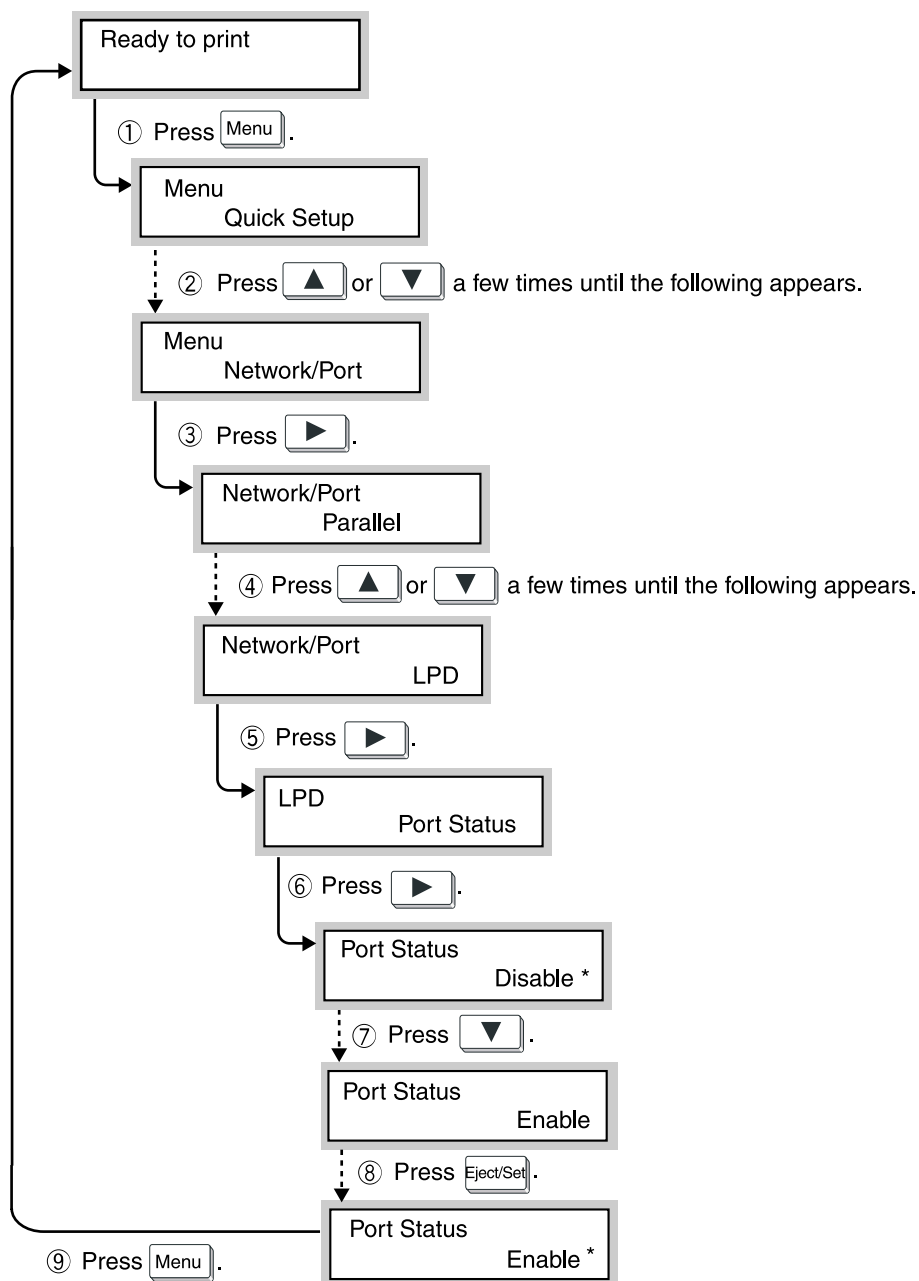
See

"2.6.2 Setting the port and transport protocol" for details on setting the SNMP agent and transport protocol.

2.6.1 Activating port

As an example, the following procedure explains how to activate the LPD port (factory setting: Enable) using the printer control panel.

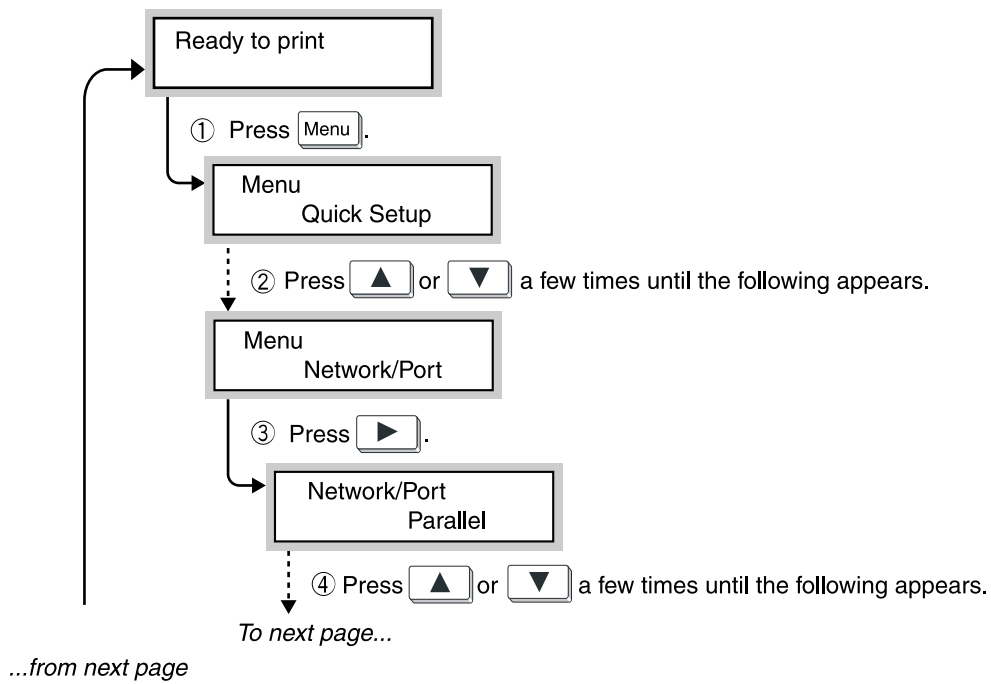
Follow the same procedure if you are activating the IPP port (factory setting: Disable).



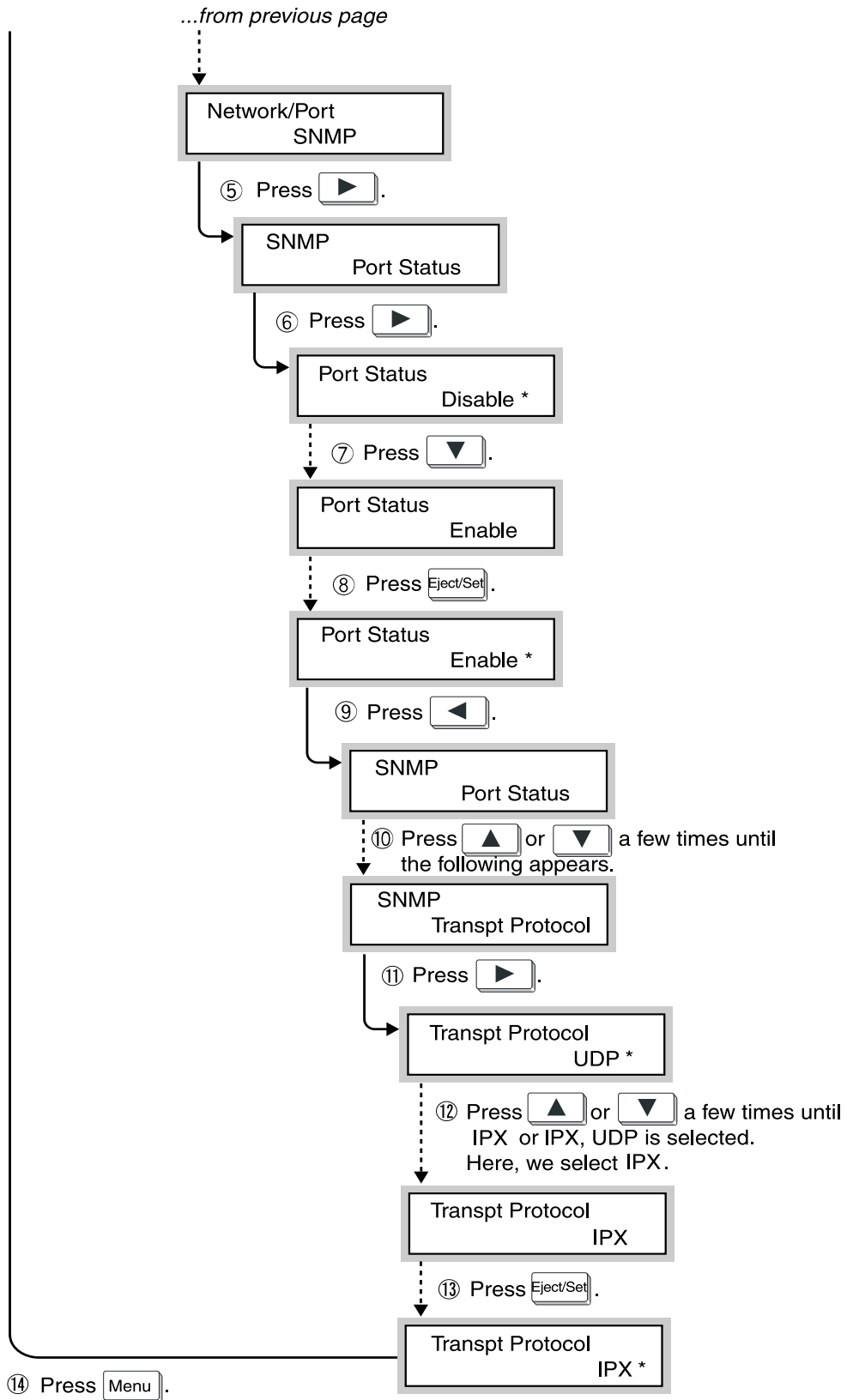
(When "Ready to print" appears, the printer is ready to receive data.)

2.6.2 Setting the port and transport protocol

As an example, the following procedure explains how to activate the SNMP port (factory setting: Enable) and transport protocol to IPX and/or UDP (factory setting: UDP). Follow the same procedure if you want to activate the SMB port (factory setting: Enable) and transport protocol (factory setting: TCP/IP, NetBEUI).



To previous page...



(When "Ready to print" appears, the printer is ready to receive data.)

2.7 Other Printer Settings

If necessary, use the printer control panel to define settings for the following items. However, it is usually not necessary to change the factory settings of these items for normal use.

See

"5.3 Common Menu Items" for details on each item and the way of setting

••• When using TCP/IP (LPD)

■ Network/Port > LPD

- Print Mode (factory setting: Auto)
 - PjL (factory setting: Enable)
 - Connect Time-Out (factory setting: 16 Secs)
 - TBCP Filter (factory setting: Disable)
 - IP Filter (factory setting: Off)
- ### ■ Allocate Memory > Buffer Size
- LPD Spool (factory setting: Off/256K)

••• When using SMB

■ Network/Port > SMB

- Print Mode (factory setting: Auto)
 - PjL (factory setting: Enable)
 - TBCP Filter (factory setting: Disable)
- ### ■ Allocate Memory > Buffer Size
- SMB Spool (factory setting: Off/256K)

Set the following items by using CentreWare Internet Services or changing the "config.txt" file of the printer via a Windows computer:

- Workgroup (factory setting: WORKGROUP)
- Host Name (factory setting: FX-xxxxxx)
[where xxxxxx is the last six digits of the Ethernet address of the printer]
- Administrator Name (factory setting: admin)
- Administrator Password (factory setting: admin)
- Maximum Sessions (factory setting: 5)
- TBCP Filter (factory setting: Disable)
- Auto Driver Download (factory setting: Enable)
- Unicode Support (factory setting: Disable)
- Auto Master Mode (factory setting: On)
- Encrypt Password (factory setting: On)

See

- "5.5 CentreWare Internet Services" for details on operating CentreWare Internet Services
- Network Print Environment User Guide (Network.pdf) in the PCL Driver/Network Utility (Windows®) CD-ROM for details on "config.txt" file

●●● **When using IPP**

■ Network/Port > IPP

- Print Mode (factory setting: Auto)
 - PjL (factory setting: Enable)
 - TBCP Filter (factory setting: Disable)
 - Access Control (factory setting: Disable)
 - DNS (factory setting: Enable)
 - Add Port No. (factory setting: 80)
 - Connect Time-Out (factory setting: 60 Secs)
- Allocate Memory > Buffer Size
- IPP Spool (factory setting: Off/256K)

2.8 Memory Allocation

This sections explains how to allocate memory.

2.8.1 Uses

Memory is meant for the following uses:

- System
- Receive buffer
- Page buffer
- PCL memory
- PS memory

Besides page buffer, you can allocate memory using the printer control panel or the CentreWare Internet Services. The memory allocated will become effective after the power has been switched off and then on again (or after the system has been rebooted).

See

- "5.3 Common Menu Items" for details on each of the memory and the way to set these on the printer control panel.
- "5.5 CentreWare Internet Services" for details on using CentreWare Internet Services

2.8.2 Suggested values

●●● System

Area used by the printer system, with the capacity remaining unchanged.

●●● Receive buffer use

A receive buffer is prepared for each of the multiple ports so as to receive data from ports. The following receive buffers can be set:

- Parallel buffer
- SMB spool
- LPD spool
- IPP spool
- NetWare Memory
- EtherTalk Memory
- USB Memory
- Port9100 Memory

It is recommended to stop unused ports, and allocate memory for other uses.

For the NetWare Memory, the default value is usually sufficient.

For the EtherTalk Memory, it is recommended that as many areas are maintained as possible. You will need to install the optional PostScript Kit to set this.

●●● **Page buffer use**

Area for drawing the actual print image. It is possible to allocate this area from the remaining area after all the other uses have been allocated. To confirm the page buffer capacity, print the Printer Settings List and then check the page buffer capacity. If the page buffer is too small, it will affect the performance and two-sided printing may be rejected.

●●● **PCL memory use**

Area for the use of PCL. This memory is to store the interim data for creating the print image. By increasing the memory capacity, the printing speed may be increased. The memory capacity is 2.50 to 32.00 MB in increments of 0.25 MB. The default is 5.00 MB.

●●● **PS memory use**

Area for the use of PS. The optional PostScript Kit needs to be installed to set this memory size.

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3

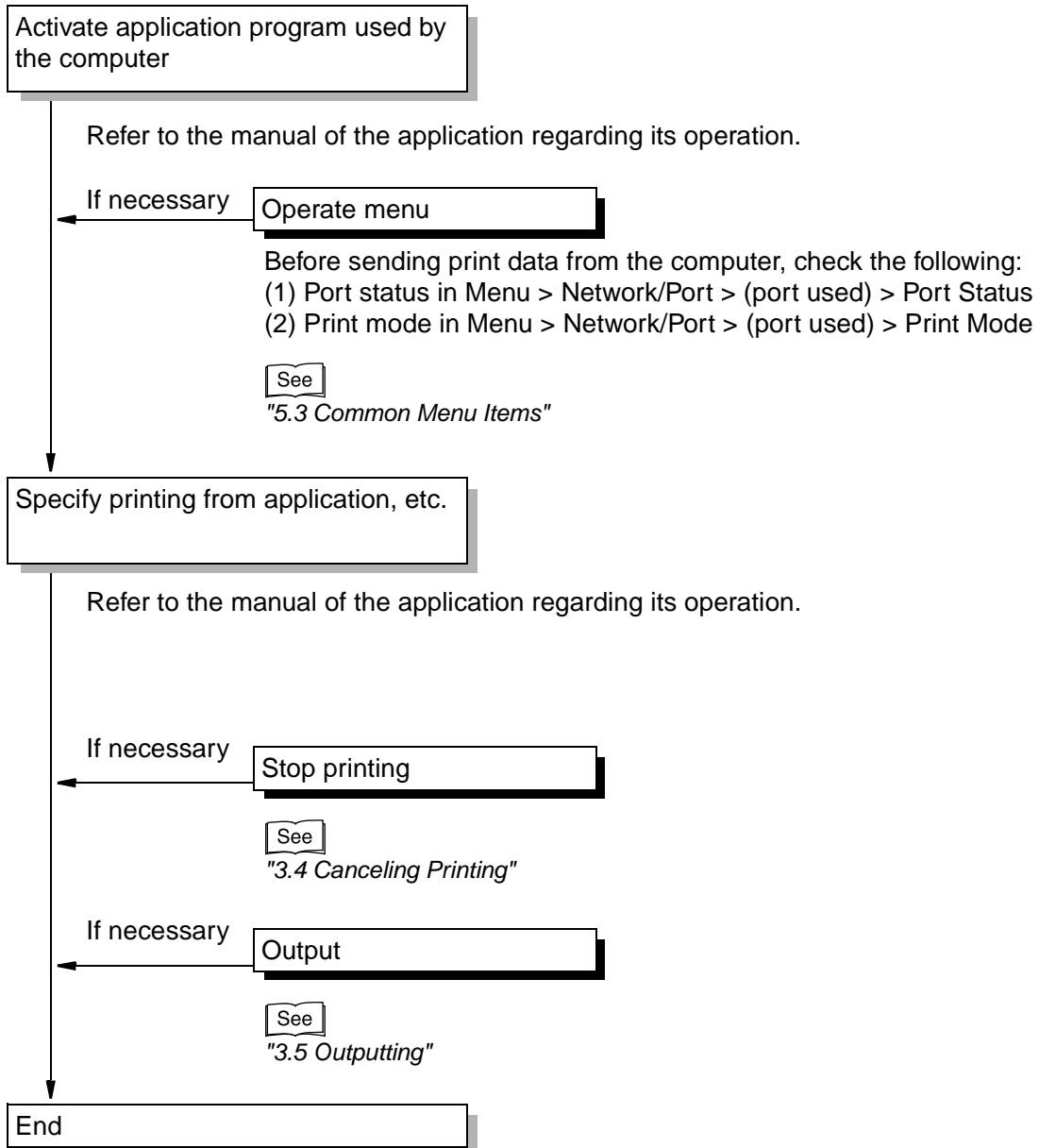
Useful Operations

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3.1 Flow of Printing

3.1.1 For Windows

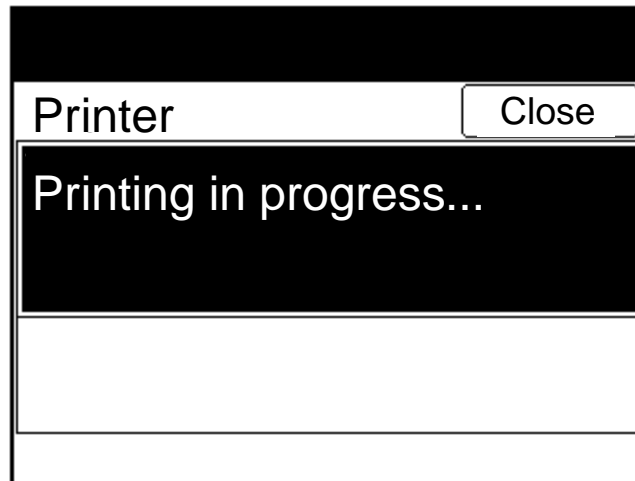
The basic flow of printing from Windows environment is as follows:
(This may differ depending on the computer and system configuration used.)



3.2 Printing vs Copying

3.2.1 Control panel operations during printing

The touch panel display of the *control panel* (not *printer control panel*) during printing will be as follows:



The operations that can be done on this control panel during printing are as follows

Control panel operations	Printer actions
Press Close on the screen displayed above to start copying.	You can program the next operation without disrupting the current printing.
Press Interrupt during printing.	Printing will be paused and you can use the copying functions. Press Interrupt again to exit the Interrupt mode and resume printing.
Press Job Status ► Stop , select a print job, and press Stop .	Printing will be paused and the copying functions can be used. The paused printing will resume automatically. The print job cannot be stopped using the control panel.

3.2.2 Printing and copying functions

The relationship between the printing and copying functions is explained below.

●●● Auto Tray Switch

Auto Tray Switch refers to the feature of automatically sending paper from another tray with the same size/orientation as the paper in the tray which has run out of paper.

This feature will usually be activated when **Auto** has been selected for **Paper Source** on the Paper/Output tab of the printer properties dialog box. This feature is independent of the copying function setting.

●●● Paper Tray Priority

For printing, the trays are allocated priority as follows: tray 1, tray 2, tray 3 and tray 4 (with tray 1 having the highest priority). This feature is independent of the copying function setting.

●●● Printing Priority

Printing of the following items will be prioritized according to the setting made on the control panel if they are all in the Output Waiting Job list: print job, auto-output report.

●●● Printing functions during copying functions

When the control panel is being used

- Printing cannot be done when the control panel is being used. However, printing instruction can be received from the computer.
- Printing specified from the computer will be printed after a certain time* has passed after using the control panel.

*: Setting of this time is done on the control panel. See the User Guide (Copier) for details.

When transmitting

Printing instruction specified from the computer will be printed according to the order received.

When copying and outputting originals for copying

- Printing cannot be done during copying and outputting originals. However, printing instructions can be received from the computer.
- Printing specified from the computer will be printed after all the originals and copies that are being copied and output have been output.

When in the Interrupt mode

Printing cannot be done during the Interrupt mode. However, printing instructions can be received from the computer.

Press **Interrupt** to exit the Interrupt mode, and to begin the processing of printing. Even during the Interrupt mode, the processing of printing will resume if no operations have been carried out for a certain time*.

*: Setting of this time is done on the control panel. See the User Guide (Copier) for details.

3.3 Printing Features

3.3.1 Setting printing features

Most of the printing features are set on the screens of the different tabs of the printer properties dialog box, which is displayed when printing from an application program or clicking the printer icon of the printer installed on the computer.

For details on these features and the way to set them, refer to the Online Help of the printer driver or "4.3 Configuring the Printer Drivers".

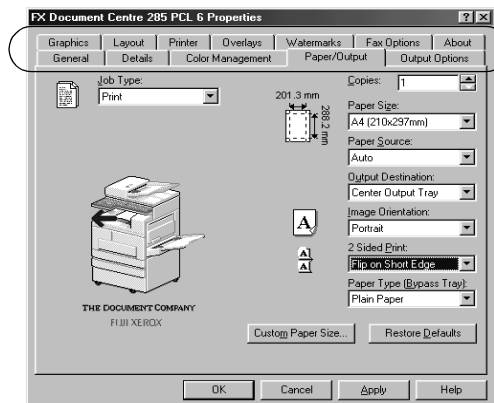
Note

- For details on using the Online Help, refer to "3.3.2 Online Help".
- Hardware options installed on the printer must be set on the Printer tab of the printer driver. If not, they may not be usable and may be dimmed on other tabs.

••• Properties screen

Notice the tabs of the following two screens showing the same Paper/Output tab but which are displayed differently.

The screen displayed when you click **Start**; select **Settings**, followed by **Printers**; and then double click the icon of your printer model to display the properties screen (for Windows 98):



The screen displayed when you print from an application program, and then select **Properties** of the printer to set printing features (for Windows 98):



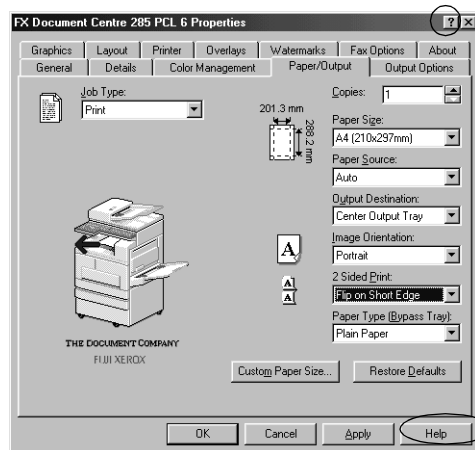
3.3.2 Online Help

You can use the online Help of the printer driver to check the explanation and way of setting of the items on the printer driver.

The following procedure explains how to display the Online Help. Here, we will use the Windows 98 printer driver as an illustration.

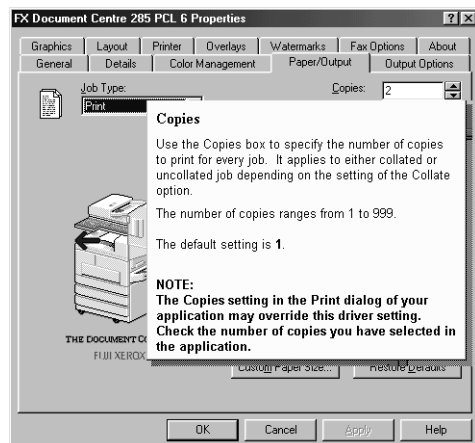
Procedure

- 1 Click **Start**, select **Settings**, followed by **Printers**. The Printers window appears. Double click the icon of your printer model, and then select **Properties** from the File menu to display the properties dialog box.
- 2 To find out more about a printer item, click on the appropriate tab to display it. Next, either click the "?" mark at the top right corner of the printer driver screen, followed by another click on the item itself or simply click **Help** on the bottom left corner of the screen.

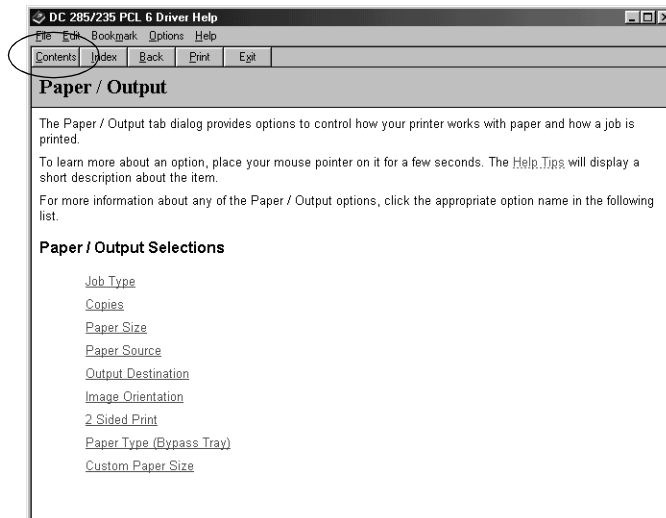


The different Help displayed:

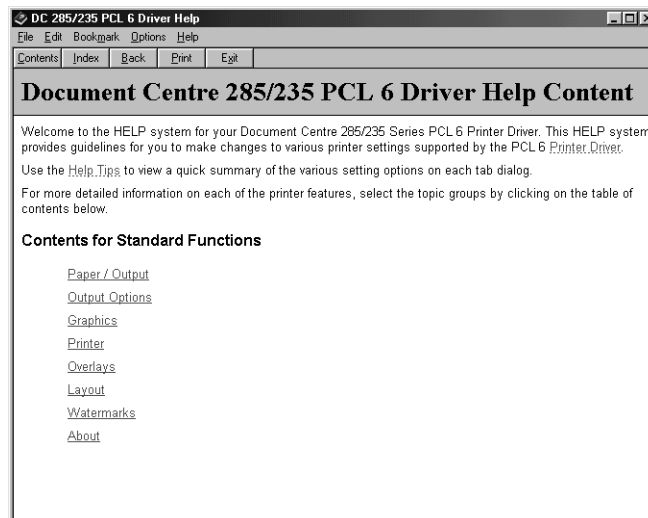
- when you click the "?" mark
An explanation on the item clicked will be displayed in a pop-up window.



- when you click **Help**
The Driver Help with the page containing the explanation on the tab shown will be displayed.



Click on **Contents** on the top left of the screen if you want to display the whole Online Help.



3.4 Canceling Printing

To cancel printing, first of all, try deleting the print instruction from the computer. If this is not possible, then delete it from the printer.

You can check the job status of the print instruction on the computer.

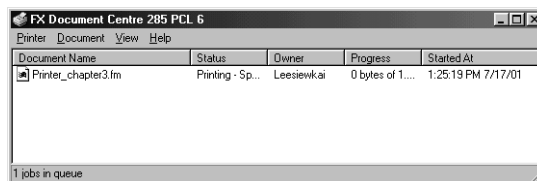
3.4.1 Canceling from computer

●●● Using Windows

The following procedure explains how to cancel printing from Windows:

Procedure

- 1 Click **Start**, select **Settings**, followed by **Printers**. The Printers window appears.
- 2 Double click the icon of your printer model.
- 3 In the window displayed, click the document that you want to delete and then press **Delete** on the keyboard.



●●● Using CentreWare Internet Services

You can use CentreWare Internet Services to cancel print data sent to the printer.

See

"5.5.7 Using CentreWare Internet Services" for details on CentreWare Internet Services.

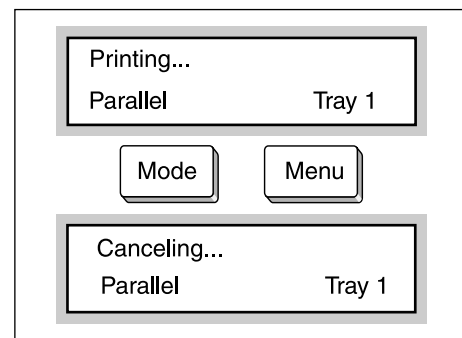
3.4.2 Canceling from printer

●●● Canceling jobs in process

The procedure to cancel jobs in process from the printer is as follows. However, the page which is being printed will still be output.

Procedure

- 1 When the display is at a state as shown on the right, press **Mode** and **Menu** together. The canceling of the the jobs will be processed. When the process has been completed, the message will display, "Ready to print".



●●● Canceling all jobs in the printer

The procedure to cancel all jobs that have been received by the printer is as follows. By this procedure, you can stop the receiving of data and empty the buffer.

Note

Buffer is the location to store data sent from the computer.

See

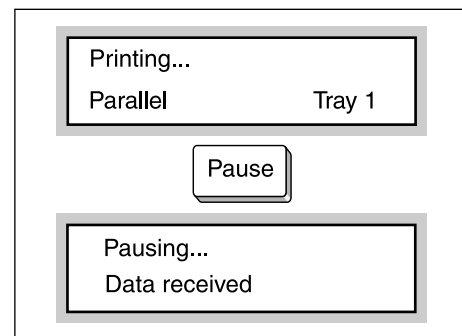
To empty the buffer, you can also execute and print all the jobs in the printer. For details, refer to "3.5.2 Outputting all jobs in the printer".

Procedure

- 1 When the display is at a state as shown on the right, press **Pause**. The printer will enter the Pause mode.

Note

*When **Pause** is pressed, the printer will automatically be unable to receive data .*



3.5 Outputting

This section explains the two types of outputting:

- Forced outputting of remaining print data
- Outputting all jobs in the printer

3.5.1 Forced outputting of remaining print data

For the PCL emulation mode, data will not be output until a full page of data is collected. If the last piece of data ends at the middle of a page, it will wait for the next data until the present Auto Eject Time has passed and "Data wait" will be shown on the display. To forcibly print data in the printer without waiting for the Auto Eject Time to pass in such an instance is known as forced outputting.

The procedure is as follows:


Note

For parallel interface, the next job sent when the display shows "Data wait" might not be printed properly. Send the next job after forced outputting or when Auto Eject Time is over.

See

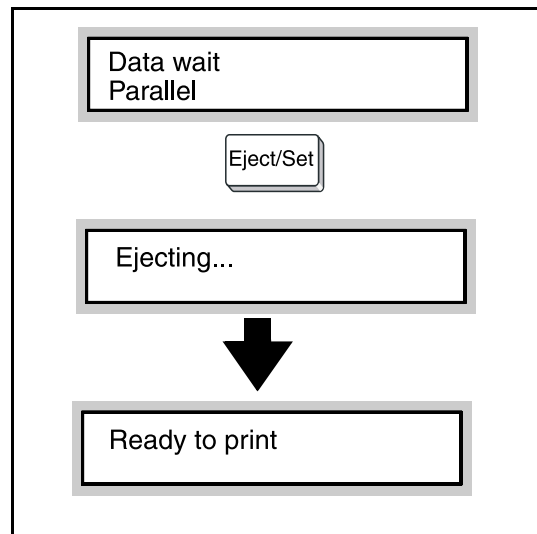
"5.3 Common Menu Items" regarding Auto Eject Time.

Procedure

- 1 When the display is at the state as shown on the left, press  .

Printing will begin.

When printing is done, "Ready to print" will be shown.



3.5.2 Outputting all jobs in the printer

To execute and print all jobs received in the printer.
 This operation can stop the receiving of data and empty the buffer.
 The procedure is as follows:

See

There is also a way to erase all jobs in the printer. Refer to "3.4.2 Canceling from printer" for details.

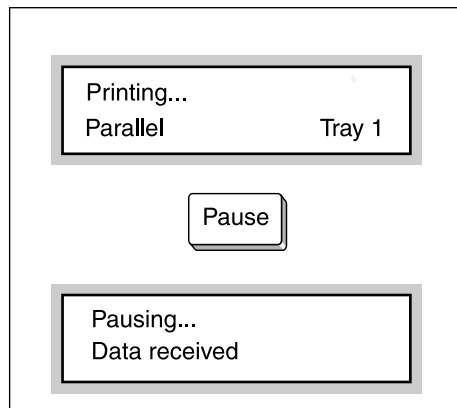
Procedure

- 1 When the display is at the state as shown on the left, press **Pause**.

The printer will enter the Pause mode.

Note

*When **Pause** is pressed, the printer will automatically be unable to receive data.*



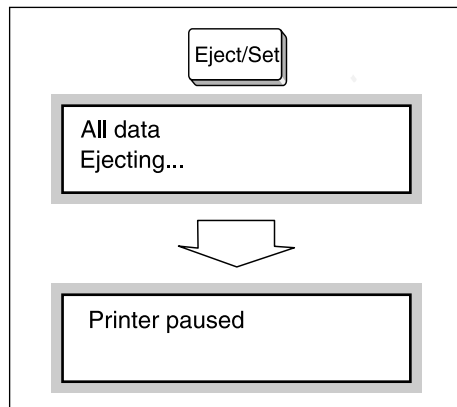
- 2 Press **Eject/Set**.
The printing begins.

When all the jobs have been executed and printed, "Printer paused" will be shown.

Note

*For parallel interface, data might be received in the midst of a job depending on the timing when **Pause** is pressed in Step 1.*

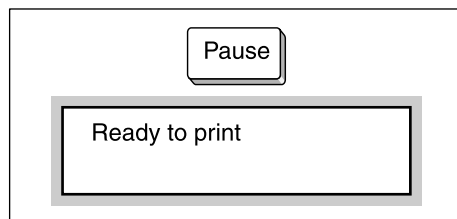
*In this case, all data following this will be recognised as a new job after **Eject/Set** is pressed and then processed as a new job after exiting the pause state in Step 3.*



- 3 Press **Pause**.
"Ready to print" will be shown.

Note

After exiting the pause state here, data that have been treated as a new job will not be printed properly if the Print Mode is set to Auto.



See

"5.3 Common Menu Items" regarding the Print Mode setting.

3.6 Printing Data Combined Using Overlays

You can use the overlay feature of the printer driver to combine data for printing.

For example, you can first create an overlay for a blank form and store it in the printer. Later, you can send the data for the form to the printer for printing out the data with the form.

Here, we will explain the process by printing from Word on Windows 98 as an example.

Form (stored beforehand)

Sales per group

Data sent from application (sent later)

March			
A	110220	B	81000
560			
900			
group			
February			
A	96200	B	70000
320			
780			
group			
January			
A	105880	B	96450
C	55000	D	117700
E	90550	F	85600
Sales per group			

March			
A	110220	B	81000
560			
900			
group			
February			
A	96200	B	70000
320			
780			
group			
January			
A	105880	B	96450
C	55000	D	117700
E	90550	F	85600
Sales per group			

Note

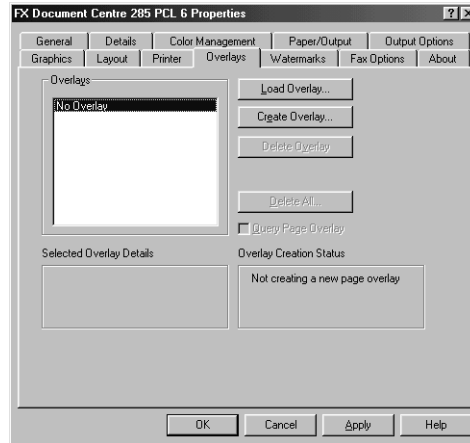
Depending on the application program, the way to display the printer properties dialog box might be different. Check the manuals of the program used.

●●● **Creating an overlay**

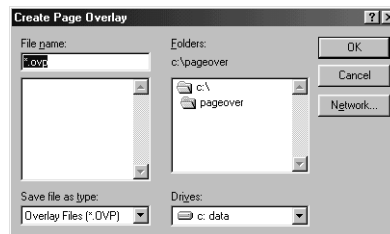
The procedure to create an overlay is as follows:

Procedure

- 1 Using the application program, create the form.
- 2 From the File menu, select **Print**.
- 3 Check that this printer is selected at the Name list box, and then click **Properties**. The printer properties dialog box appears.
- 4 Click the Overlays tab.



- 5 Click **Create Overlay**. The Create Overlay dialog box appears.



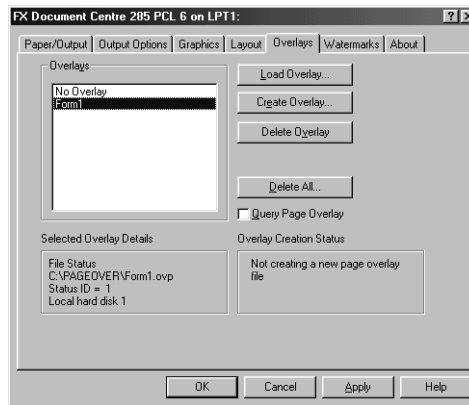
- 6 Enter a name for the overlay in the File name box. If you wish, select another directory other than the default C:\pageover.
- 7 Click **OK** to close the Create Page Overlay dialog box.
- 8 Click **OK** to close the printer properties dialog box. Then click **OK** to close the Print dialog box. When a confirmation message, "Create Page Overlay?" appears, click **Yes** to confirm. The overlay will be stored in your computer.

●●● Printing with an overlay

The procedure to print your data with the overlay is as follows:

Procedure

- 1 Using the application program, create the data for the form.
- 2 From the File menu, select **Print**.
- 3 Check that this printer is selected at the Name list box, and then click **Properties**. The printer properties dialog box appears.
- 4 Click the Overlays tab.
- 5 Select the overlay (e.g. "Form1") to be used from **Overlays**.



- 6 Click **OK** to close the printer properties dialog box. Then click **OK** to close the Print dialog box. The data will be printed with the overlay.

3.7 Printing Secure Print and Sample Print Jobs

When the Printer HDD Kit has been installed, you can use the Secure Print and Sample Print features.

LOOK

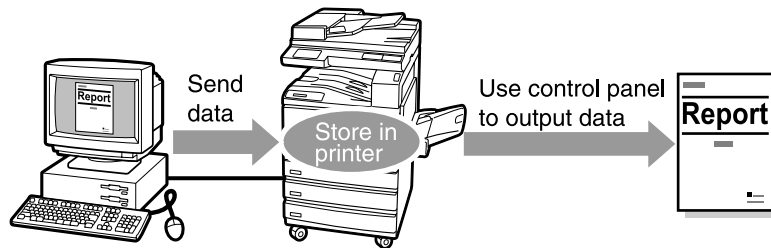
As the Printer HDD Kit may break down, important data saved in the Hard Disk should be saved in some other place for safe keeping.

Note

Before specifying Secure Print and Sample Print features, select **Hard Disk** on the Printer tab of the printer driver.

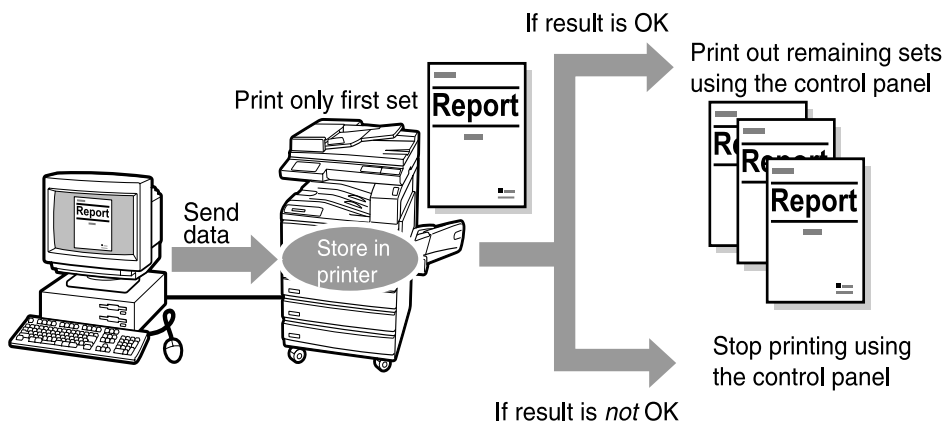
Secure Print

You can attach a password to a piece of data on the computer, send it to the printer for storing, and then print out the data later using the control panel. This feature is known as Secure Print. You can also send data to the printer without a password. This feature is useful for storing frequently-used data in the printer, and then using only the printer and not the computer to print it out.



Sample Print

When printing multiple copies, you can print out only the first set to check the printing result first before printing the remaining copies from the printer control panel. This feature is known as Sample Print.

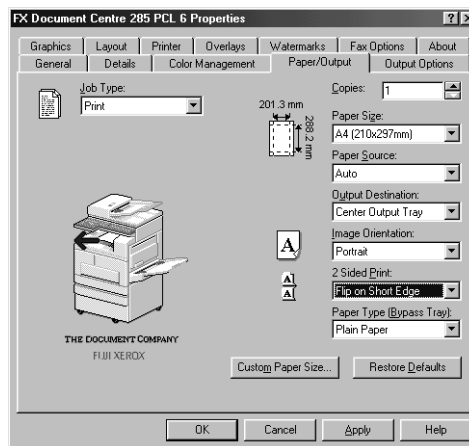


3.7.1 Storing User ID and Password

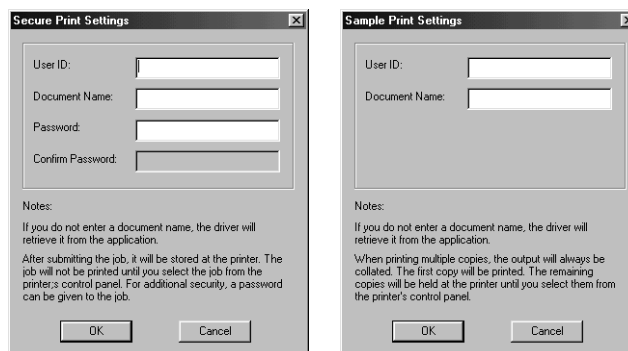
To use the Security Print and Sample Print features, you need to set the User ID and password (for Security Print only) first.

Procedure

- 1 Click **Start**, select **Settings**, followed by **Printers**. The Printers window appears. Double click the printer icon, and select **Properties** from the File menu to display the properties dialog box.
- 2 Click the Paper/Output tab.



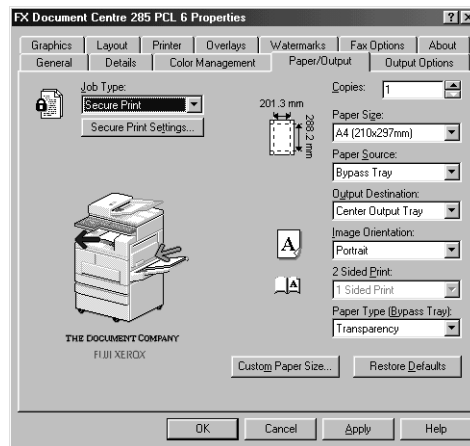
- 3 From the Job Type list box, select **Secure Print** or **Sample Print**. The Secure Print Settings or Sample Print Settings dialog box appears.



- 4 For **User ID**, specify a user ID using 1-24 characters. This is mandatory. If no user ID is specified, you will be prompted by a warning message.
- 5 For **Document Name**, specify a document name using 1-24 characters. This is optional. If you do not enter a name here, it will be retrieved from the application.

3.7 Printing Secure Print and Sample Print Jobs

- 6 For **Secure Print** only:
For **Password**, specify a password using one to four numbers.
This is optional. The password specified will be displayed by one * for each number entered.
After **Password** is entered, **Confirm Password** will be enabled for you to re-enter the password for confirmation.
- 7 Click **OK**.
A button, **Secure Print Settings** or **Sample Print Settings** will become available just below the Job Type list box.



When **Secure Print Settings** is created

3.7.2 Printing Secure Print/Sample Print Jobs

The procedure to print Secure Print and Sample Print jobs is as follows. First, you need to set the Secure Print and Sample Print features on the computer. Then, you print out the print data using the printer.

●●● At the computer

Here, we will use the Wordpad of Windows 98 as an example.

Note

The way to display the printer properties dialog box differs according to the application program. Refer to the manuals of the application program used.

Procedure

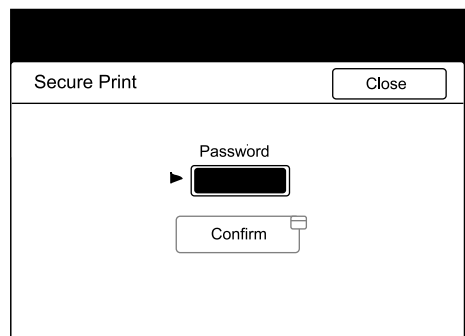
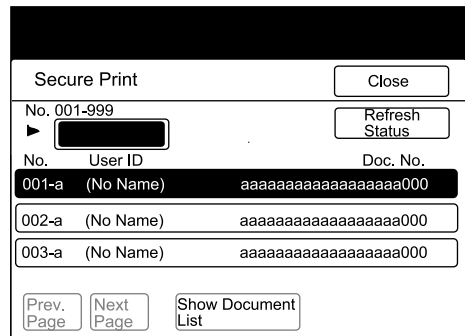
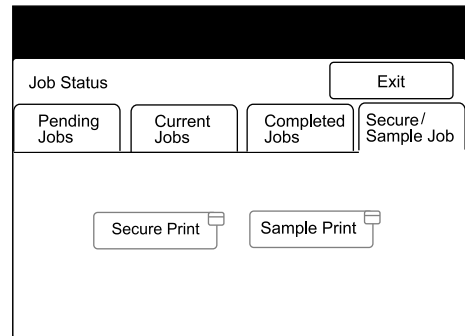
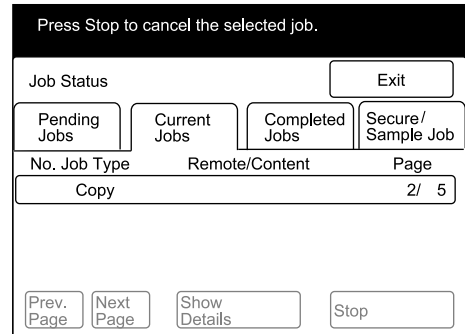
- ① From the File menu of the application program, select **Print**.
- ② Check that the printer to be used is the printer where you have set your User ID and password, and then click **Properties**.
- ③ For Sample Print only:
Click the Paper/Output tab, and select at least 2 for **Copies**.
- ④ Click **Secure Print Settings** or **Sample Print Settings** that have been created on the Paper/Output tab.
A Secure Print Settings or Sample Print Settings dialog box appears.
- ⑤ Check the User ID and Document Name on these dialog boxes, and then click **OK** to close it.
- ⑥ If necessary, select settings on the tabs of the printer driver, and then click **OK** to close the printer properties dialog box.
- ⑦ Click **OK** on the Print dialog box to close it and to send data to the printer for storing.

●●● **At the control panel**

The following procedure describes how to print out, using the control panel, the Secure Print or Sample Print job that has been stored in the printer.

Procedure

- 1 Press the button, **Job Status ▶ Stop** on the control panel.
The Job Status screen is displayed.
- 2 Select the tab, **Secure/Sample Job**.
- 3 Select **Secure Print** or **Sample Print**.
Here, we will select **Secure Print** as an illustration.
- 4 Select the job that you want to print by the ID assigned to the Secure Print/Sample Print job, and then touch **Show Document List**.
- 5 For Secure Print jobs with password assigned only:
A Password Entry screen appears. Enter your password and then select **Confirm**.



- 6 Select the job that you want to print, and then select **Print**.

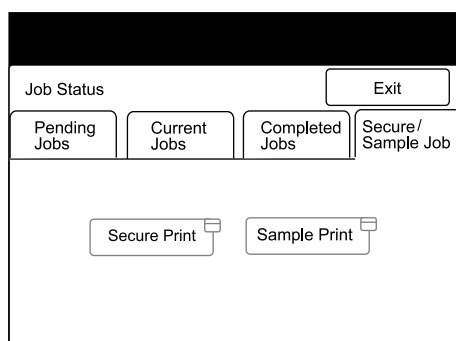
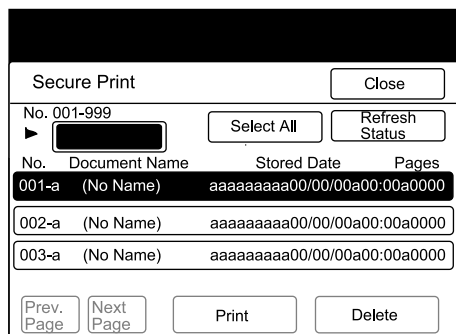
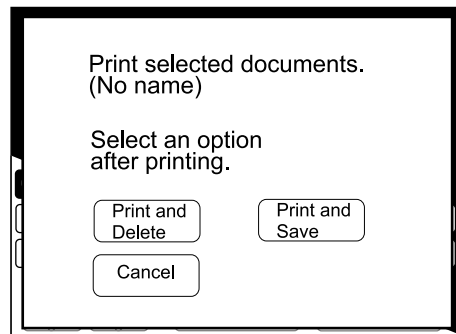
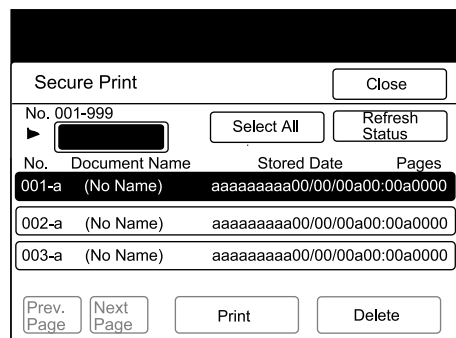
Note

- Selecting **Select All** will select the jobs all at once.
- To stop printing, select the jobs that you want to stop printing and then select **Delete**.

- 7 Select an option after printing.
 Select **Print and Delete** if you want to delete the job after printing.
 Select **Print and Save** if you want to save the job after printing.
 Printing will then begin.

- 8 Select **Close** if you want to end operations at the control panel.

- 9 Select **Exit**.



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4

Installing/Configuring the Printer Drivers

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4.1 About the Printer Drivers

This section gives an overview of the printer drivers.

4.1.1 The PCL 6 printer drivers

The PCL 6 printer drivers are installed on the Windows operating systems to provide a standard interface between an application program and the printer device. By installing these printer drivers, print jobs are converted into the PJI and PCL 6 printer languages and then print through the printer device.

These printer drivers are system specific, each will only run on either Windows 95/Windows 98/Windows Me, or Windows NT 4.0/Windows 2000. There are altogether two different printer drivers provided:

- PCL 6 printer driver for Windows 95/Windows 98/Windows Me
- PCL 6 printer driver for Windows NT 4.0/Windows 2000

4.1.2 Installation/configuration methods

The methods of installing/configuring all these different printer drivers as well as the procedures for printing using these drivers are basically the same. Regardless of the operating system (OS) you are using, the basic steps are similar except for the look of some of the dialog boxes. Only one printer driver will be used to discuss these operations in this chapter but any differences among these drivers will be pointed out.

4.1.3 Settings on the printer

Make sure the PJI switch for the interface is turned to ON. If the PJI switch is turned to OFF, you may not obtain the desired printing results when using some driver features.

4.2 Installing/Uninstalling the Printer Drivers

This section describes the procedure for installing and uninstalling the printer drivers.

Two methods of installation are described here, one for a local printer and the other for a network printer.

If you have installed an earlier version of the printer driver, uninstall it first by following the procedure in "4.2.3 Uninstalling the printer drivers" before installing the new version.

Note

You can also use the Add Printer Wizard to install the printer driver. Refer to ReadMe for more details.

4.2.1 For a local printer

Local printer refers to a printer that is directly connected to your computer.

Procedure

- 1 Start Windows 95, Windows 98, Windows Me, Windows NT 4.0 or Windows 2000.

Note

For this example, we will install the DC285 PCL 6 printer driver on the Windows 98 OS.

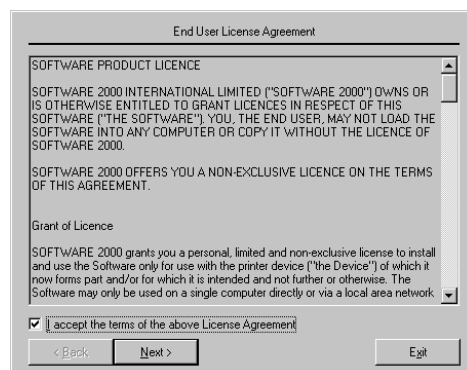
- 2 Click **Start** and select **Run**.
The Run dialog box appears.

- 3 Insert in the PCL Driver/Network Utility (Windows®) CD-ROM and enter "E:\English\DC285\Win9x_Me\PCL6\Setup\Setup.exe" on the Run dialog box. Then click **OK**.

Note

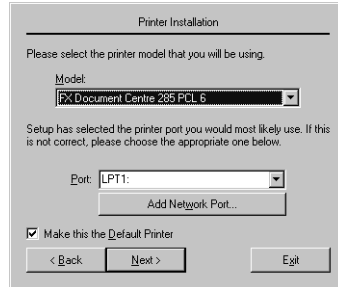
- For this example, we assume that drive E is the CD-ROM drive. Enter the appropriate letter for your CD-ROM drive.
- Enter "DC235" instead of "DC285" if you are installing the DC235 printer driver.

- 4 The End User Licence Agreement dialog box appears. Read through the licence agreement carefully. If you have no objections to it, click on the checkbox, **I accept the terms of the above Licence Agreement**, and then click **Next**.

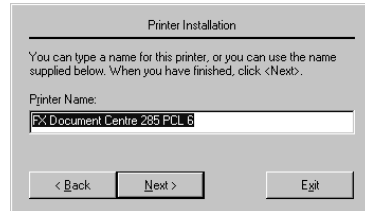


4.2 Installing/Uninstalling the Printer Drivers

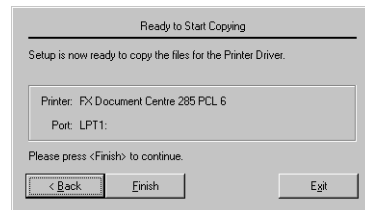
- 5 The Printer Installation dialog box appears. Check the printer model and then click **Next**.



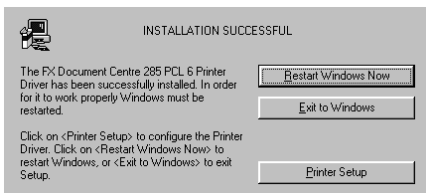
- 6 The following Printer Installation dialog box appears. Determine the printer name and then click **Next**.



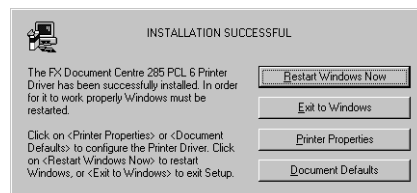
- 7 The Ready to Start Copying dialog box appears. Click **Finish** to continue.



- 8 After the installation is completed, the following Installation Successful dialog box appears



Windows 95/Windows 98/Windows Me



Windows NT 4.0/Windows 2000

- 9 To restart the system, click **Restart Windows Now**.
To exit the installation, click **Exit to Windows**.
To configure the printer driver, click **Printer Setup** (for Windows 95/Windows 98/Windows Me) or **Printer Properties** and **Document Defaults** (for Windows NT 4.0/Windows 2000). It is recommended to activate the Auto Configuration feature first to define your printer configuration in the printer driver. For details, refer to **Auto Configuration of Printer** in "4.3.2 Setting the printer properties".

See

"4.3 Configuring the Printer Drivers" for details on how to configure the printer driver.

Note

- You must restart Windows in order for the driver to work properly.
- You may run the Setup.exe program to install the Windows 95/Windows 98/Windows Me printer driver as an alternate driver on the Windows NT server (workstation) after you have installed the printer driver for Windows NT 4.0. If you install the alternate driver onto Windows 2000, use the Add Printer Wizard. In this case, as there is no need to restart Windows, click **Exit to Windows**. When downloading the alternate Windows 95/Windows 98/Windows Me driver installed in Windows NT/Windows 2000, on the Windows 95/Windows 98/Windows Me client computer, use the Add Printer Wizard dialog box.

4.2.2 For a network printer

Network printer refers to printer that is connected to your computer through a network.

Note

Use the Add Printer Wizard to install the printer driver if you are using:

- TCP/IP (LPD or Port9100) to print from Windows 2000/Windows NT 4.0;
- IPP.

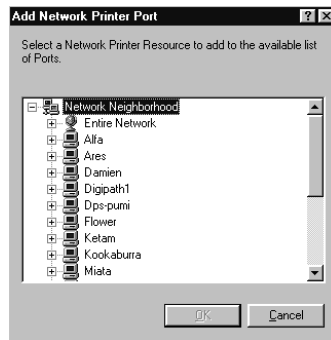
For details, refer to Network Print Environment User Guide (Network.pdf) in the PCL Driver/Network Utility (Windows®) CD-ROM.

Procedure

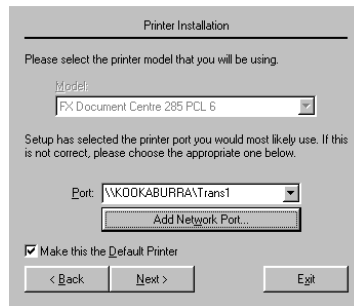
- 1 Follow Steps 1 to 4 of "4.2.1 For a local printer" to display the Printer Installation dialog box.
- 2 Click **Add Network Port**.
The Add Network Printer Port dialog box appears. Select the network printer from **Network Neighborhood** and then click **OK**.

Note

If you do not know the network address of the network printer, consult your system administrator.



- 3 The Printer Installation dialog box showing the network path of the network printer appears. Click **Next**.



- 4 Follow Steps 5 to 9 of "4.2.1 For a local printer" to complete the installation procedure.

4.2.3 Uninstalling the printer drivers

Note

- For drivers installed by the Setup.exe program, use the Unsetup.exe program to uninstall.
- For Windows 95/Windows 98/Windows Me alternate drivers installed in Windows NT server (workstation), use the Unsetup.exe program to uninstall the Windows 95/Windows 98/Windows Me drivers and then activate the Unsetup.exe program of the Windows NT driver.
- To uninstall the alternate drivers downloaded using the Add Printer Wizard dialog box at the client computer, open the Printers window and erase the applicable printer icons.

Procedure

- 1 Click **Start** and select **Run**.
In the Run dialog box displayed, click **Browse**.

Note

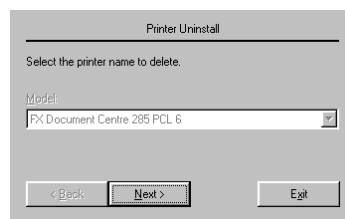
For this example, we will uninstall the DC 285 PCL 6 driver on the Windows 98 OS.

- 2 Insert in the PCL Driver/Network Utility (Windows®) CD-ROM and select the CD-ROM drive in the Browse dialog box.
Next, select Unsetup.exe (English\DC285\Win9x_Me\PCL6\Setup\Unsetup.exe) from the CD-ROM and click **Open** to close the Browse dialog box.

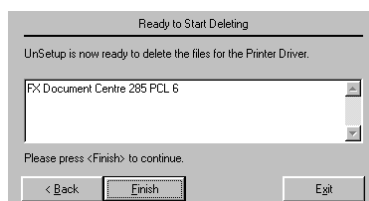
Note

- When uninstalling any driver, remember to use the Unsetup.exe program of the correct driver and of the same version as the Setup.exe program used for installation.
- Enter "DC235" instead of "DC285" if you are uninstalling the DC235 printer driver.

- 3 The path for the unsetup program appears in the Run dialog box.
Click **OK** to continue.
- 4 The following Printer Uninstall dialog box appears.
Check the printer model and click **Next**.

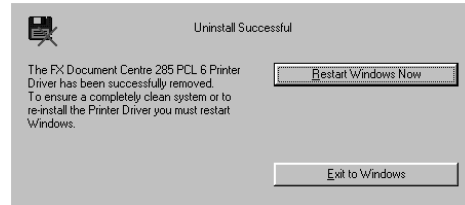


- 5 The following Ready to Start Deleting dialog box appears.
Click **Finish** to continue.



4.2 Installing/Uninstalling the Printer Drivers

- 6 When the uninstallation is completed, click **Restart Windows Now** to ensure that the driver is completely removed from the system.



4.3

Configuring the Printer Drivers

This section describes how to configure the printer driver from the printer properties dialog box. This dialog box will appear if you click Printer Setup (for Windows 95/Windows 98/Windows Me) or Printer Properties (for Windows NT 4.0/Windows 2000) on the Installation Successful screen. If you have quit the printer setup program, follow the procedure in "4.3.1 Accessing the printer properties dialog box" to display this dialog box.

This printer properties dialog box includes many tabs for you to set up the printing conditions, such as Printer and Paper/Output. You will need to select appropriate options on the Printer tab first before the other tabs. If not, the other tabs may not show options appropriate to your machine.

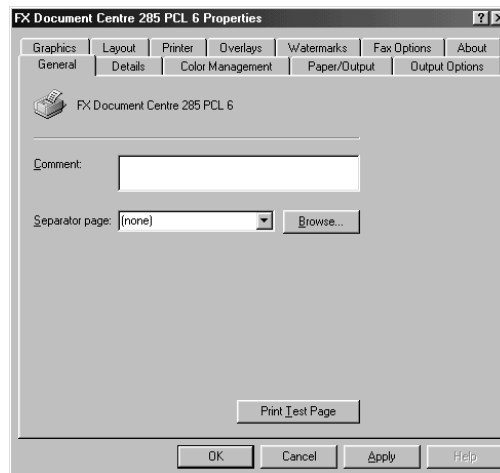
For Windows NT 4.0/Windows 2000 drivers: You have to define settings on the Printer tab from this printer properties dialog box before accessing the *document default* dialog box (for Windows NT 4.0) or *printing preferences* dialog box (for Windows 2000) to define the other properties.

For details of all the different properties, refer to "4.3.2 Setting the printer properties".

4.3.1 Accessing the printer properties dialog box

••• For Windows 95/Windows 98/Windows Me

- 1 Click **Start**, select **Settings**, followed by **Printers**.
The Printers window appears.
- 2 Double click the icon of your printer model.
- 3 Select **Properties** from the File menu to display the Properties dialog box.

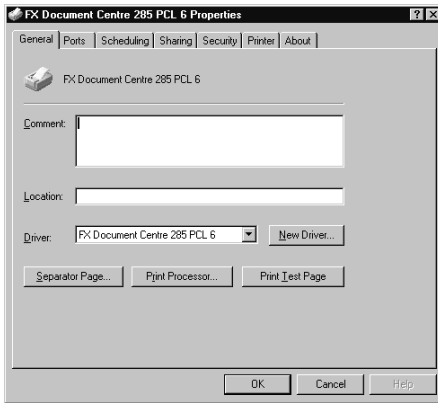


4.3 Configuring the Printer Drivers

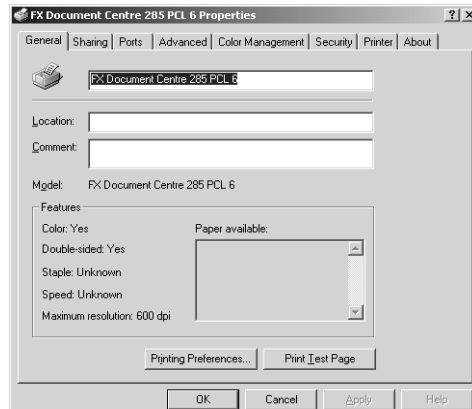
••• For Windows NT 4.0/Windows 2000

Accessing the printer properties dialog box

- 1 Follow Steps 1 and 2 of the procedure for Windows 95/Windows 98/Windows Me to select the icon of your printer model.
- 2 Select **Properties** from the Printer menu to display the following Properties dialog box.



Windows NT 4.0



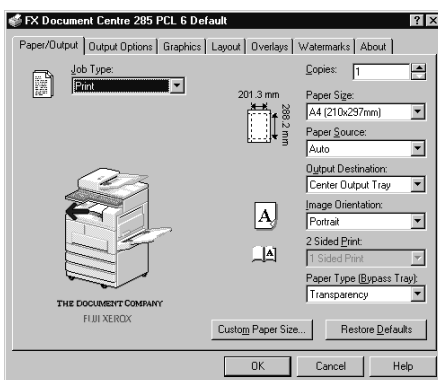
Windows 2000

Accessing the document defaults/printing preferences dialog box

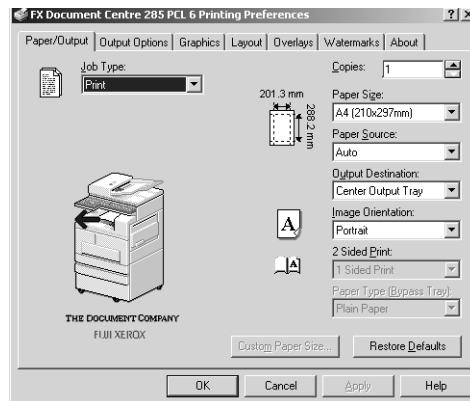
- 1 Follow Steps 1 and 2 of the procedure for Windows 95/Windows 98/Windows Me to select the icon of your printer model.
- 2 Select **Document Defaults** (for Windows NT 4.0) or **Printing Preferences** (for Windows 2000) from the Printer menu to display the following document defaults/printing preferences dialog box to define settings on the other tabs.

Note

For Windows 2000: You can also click **Printing Preferences** on the General tab of the printer properties dialog box to display the printing preferences dialog box.



Windows NT 4.0



Windows 2000

4.3.2 Setting the printer properties

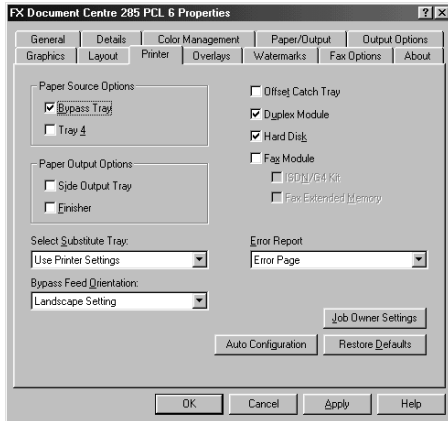
Through the printer properties (and document default/printing preferences) dialog box, the printer driver will provide an interface for you to ensure that the driver settings match those of the printer and to select printer option settings for the different properties. The settings made here will be the default printer configuration for printing subsequent jobs.

Although an application may change the page setup each time a job is printed, it will not affect these default settings. Changes to these configurations can only be made through these dialog boxes.

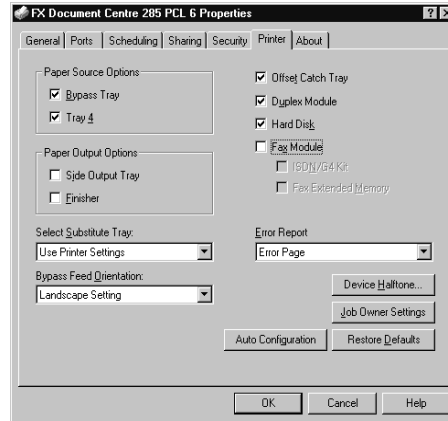
Before listing the different properties of each tab, here is a summary of them:

- **Printer**
Settings here include the printer hardware options installed (e.g. Bypass Tray, Tray 4, Side Output Tray, Finisher, Offset Catch Tray, Duplex Module, Hard Disk) and other printer settings that are not configured frequently, like Error Report, Select Substitute Tray, Bypass Feed Orientation, Job Owner Settings, Auto Configuration.
(for Windows NT 4.0/Windows 2000 only: Device Halftone)
- **Paper/Output**
This property controls several aspects of how the printer works with paper and how it handles a print job. Settings include Job Type (i.e. Print, Secure Print, Sample Print), Paper Size, Paper Source, Image Orientation, Copies, Output Destination, 2 Sided Print etc.
- **Output Options**
Includes settings on how the printed output is to be processed. Settings include Job Offset Settings, Collated Settings, Finishing, Document Options (e.g. First Sheet, Transparency Separators) etc.
(for Windows NT 4.0/Windows 2000 only: EMF Spooling)
- **Graphics**
Settings contained here control the quality of printed output as well as how the graphics and TrueType fonts will be processed and printed.
(for Windows NT 4.0/Windows 2000 only: Halftone Color Adjustment)
- **Overlays**
Allows you to create, use and delete page overlays for the printer.
- **Layout**
The layout property provides six job finishing features to modify the printed layout of a document like Multi-Up, Booklet Creation, Fit To Output Size, Zoom, Change Output Size (No Zoom), Poster.
- **Watermarks**
A watermark is a light image printed in the background on a page. The PCL 6 driver allows text (as watermark) to be printed in the background or foreground and placed across the first page or all pages of a document. This property dialog allows you to create, delete and modify such watermarks.

Printer



Windows 95/Windows 98/Windows Me



Windows NT 4.0/Windows 2000

The Printer tab defines two main types of settings: the current hardware configuration of the printer (**Paper Source Options** and **Paper Output Options**) as well as other printer settings that are not configured frequently. You need to define your printer configuration on the Printer tab before specifying other options, which they may be disabled if the installed options are not correctly specified. You can simply click **Auto Configuration** to search through the network for options installed on your printer, and automatically display the correct hardware option settings on this tab. Or you may also specify the installed options manually instead.

Paper Source Options

Specify the optional paper source that can be attached to your printer other than the standard tray. The printer image on the Paper/Output tab will be changed accordingly.

Bypass Tray (default: off)

Select this if your printer is installed with this manual feeder for loading paper that cannot be used in a paper tray.

Tray 4 (default: off)

Select this if your printer is installed with tray 4.

LOOK

- If **Bypass Tray** is not checked here, **Bypass Tray** will not be available for **Paper Source** on the **Paper/Output** tab.
- If **Tray 4** is not checked here, **Tray 4** will not be available for **Paper Source** on the **Paper/Output** tab.

Paper Output Options

Specify the optional output tray that can be attached to your printer for additional capacity over the standard output tray.

Side Output Tray (default: off)

Select this if your printer is installed with the Side Tray Kit that is fitted to the side of the printer. Printed copies are delivered face up in this tray.

Finisher (default: off)

Select this if your printer is installed with this attachment of two finisher trays. It is equipped with the offset catch tray and the stapler.

LOOK

- If **Side Output Tray** is not checked here, **Side Output Tray** will not be available for **Output Destination** on the Paper/Output tab.
- If **Finisher** is not checked here, **Finisher Tray Upper** and **Finisher Tray Lower** will not be available for **Output Destination** on the Paper/Output tab.
- Only one of these two options, **Side Output Tray** or **Finisher**, can be selected at a time.

Select Substitute Tray

Use this feature to determine the output action when the printer fails to feed the desired paper size for print jobs with **Auto** selected for **Paper Source** on the Paper/Output tab.

Options include:

- Use Printer Settings (default)
Paper will be fed according to the printer settings.
- Use Larger Size (No Zoom)
The next bigger size to the selected size will be used for outputting the job without adjusting the image size and position. A smaller size will be used if a bigger size is not available.
- Display Message
A message, prompting for paper to be loaded in tray, will be displayed on the printer control panel.

Bypass Feed Orientation

Select the orientation of the paper to be loaded in the bypass tray. Options include:

- Landscape (default)
Paper will be fed by its short edge and the paper will be output in landscape orientation.
- Portrait
Paper will be fed by its long edge and the paper will be output in portrait orientation.

Enabled only if **Bypass Tray** has been selected for **Paper Source Options** on this tab.

LOOK

*Even when **Portrait** has been selected, some paper sizes need to be loaded and fed only in landscape orientation because of the bypass tray specification.*

Offset Catch Tray (default: off)

Select this if your printer is installed with the Offset Output Kit. Only the standard Center Output Tray can be used with the offset catch tray.

LOOK

*If this is not checked, **Offset Per Job** and **Offset Per Set** will not be available for **Job Offset** on the Output Options tab.*

Duplex Module (default: off)

Select this if your printer is installed with a duplex module to perform two-sided printing.

LOOK

*If this is not checked, **Flip on Long Edge** and **Flip on Short Edge** will not be available for **2 Sided Print** on the Paper/Output tab.*

Hard Disk (default: off)

Select this if your printer is installed with a hard disk which enables the printer to support job collation. This has to be selected also when using the stapling function.

LOOK

*If this is not checked, **Collated** on the Output Options tab will not be available.*

Error Report

Select whether or not errors are to be reported for print jobs. Options include:

- Off
No error report will be printed.
- Error Page (default)
An error page will be printed when the printer encounters error in printing the job.

Device Halftone (for Windows NT 4.0/Windows 2000 only)

Click to display the Device Color/Halftone Properties dialog box for defining the color and halftone properties for the printer.

Job Owner Settings

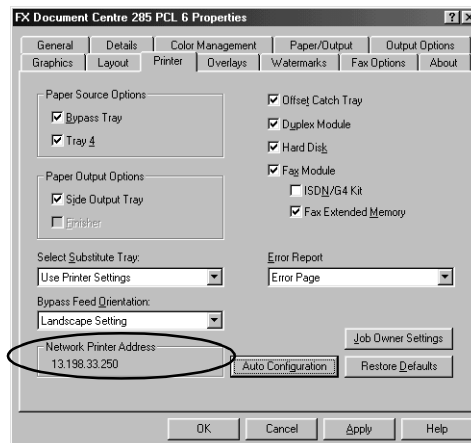
Click to display the Job Owner Settings dialog box to define the job owner name, which is required by the printer to generate the print volume report. The name can be entered in 1 to 31 characters. If you do not specify the name, the printer will use the user's login name.

Auto Configuration

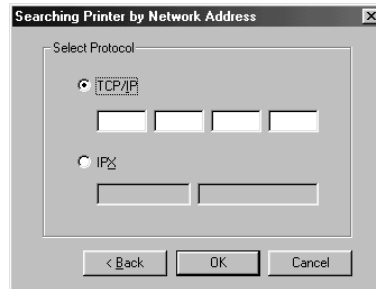
Click to automatically display the correct hardware options instead of manually specifying each device option.

Before clicking this button to update the printer configuration, you will need to enable **SNMP** as a network port and select **UDP** or **IPX** for **Transport Protocol** on the printer control. For details, refer to "2.6.2 Setting the port and transport protocol".

If the printer driver is using TCP/IP or IPX network port, and the connected printer is of the same target model as the printer driver, the driver will successfully acquire the information on your printer configuration and the check box of the installed options will be selected. Once the printer has been configured automatically, the network printer address will be displayed on the tab, right below **Bypass Feed Orientation**.



- 4** When **Network Printer Address** has been selected:
Select **TCP/IP** or **IPX** for your protocol, enter the printer network address, and then click **OK**.



Note

- For TCP/IP, enter numbers between 0-255 for each box.
- For IPX, enter 8 characters for the first box and 12 for the second box. You can enter numbers (0-9) or letters (a-f, case insensitive).

The options installed to your printer will be detected through the network, and the check boxes of the installed options will be selected. The network printer address will be displayed.

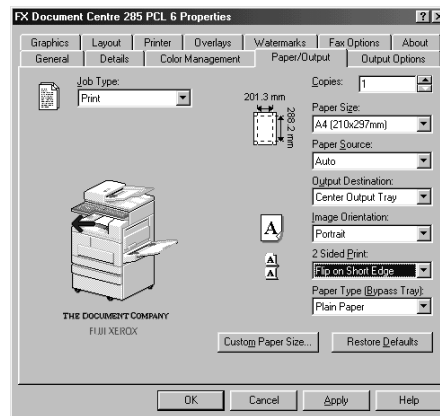
Note

- If the driver is still not able to acquire the information, specify the printer configuration manually.
- If the configuration settings have been modified manually after performing Auto Configuration, the display of network printer address will be gone.

Restore Defaults

Restore the settings in the dialog box to their default values.

●●● Paper/Output



The Paper/Output tab has option settings that determine the print environment in which a job is printed. Notice that there are image displays of Job Type, Paper Size, Image Orientation and 2 Sided Print to the left of these drop-down lists, which will change according to the selections made. There is also a display of the printer with clickable image areas of the paper input and output devices. You can either click on these displays or choose from the drop-down lists to make selections.

Job Type

Specify the type of job you want to output. Options include:

- **Print (default)**
Select this for the usual print job.
- **Secure Print**
Select this when you want to keep the job in the printer. The jobs can then be printed only when requested from the printer control panel.
- **Sample Print**
Select this when you want to print only the first copy of multiple collated copies as sample. The rest of the copies will be stored in the printer until requested from the printer control panel.
(**Secure Print** and **Sample Print** are available only if **Hard Disk** has been selected on the Printer tab)

See

"3.7 Printing Secure Print and Sample Print Jobs" for details on printing Secure Print and Sample Print jobs.

Copies (default: 1)

Specify the number of copies to print. The valid range is 1-999 copies.

Paper Size

Specify the paper size to use for the print data. Options include:

- A4 (210×297 mm) (default)
- 8.5×11" (Letter)
- B5 (182×257 mm)
- B4 (257×364 mm)
- 8.5×13" (Folio)
- 8.5×14" (Legal)
- 8K (267×388 mm)
- A3 (297×420 mm)
- 11×17" (Ledger)
- A5 (148×210 mm)
- Postcard (100×148 mm)
- 5.5×8.5" (Statement)
- B6 (128×182 mm)
- A6 (105×148 mm)
- Booklet on A4
- Booklet on Letter
- Booklet on A3
- Booklet on Ledger

(5.5×8.5" (Statement), B6 (128×182 mm), and A6 (105×148 mm) are available only if **Bypass Tray** has been selected for **Paper Source Options** on the Printer tab; **Booklet on A4, Booklet on Letter, Booklet on A3, and Booklet on Ledger** are available only if **Duplex Module** has been selected on the Printer tab)

Note

You can define your own paper size by clicking **Custom Paper Size**.

Custom Paper Size

Click to display the Custom Paper Size dialog box for defining the non-standard size of the print media that you are using. For a print job, it is enabled only if **Bypass Tray** has been selected for **Paper Source Options** on the Printer tab.

Options include:

Select

Select from one of the standard paper sizes that is closer to your custom size, and then click **New** to enable the other options for editing.

Name

Enter up to a maximum of 32 characters.

Unit

Choose either millimeter or inch to define the custom paper size.

Size

Enter a paper size ranging from 100×148 mm to 297×431 mm.

Portrait

Define the printable area margins in portrait orientation by defining the left, right, top and bottom margins.

Landscape

Define the printable area margins in landscape orientation by defining the left, right, top and bottom margins.

Paper Source

Specify the default paper tray to use. Options include:

- Auto (default)
Paper will be automatically selected.
- Tray 1
- Tray 2
- Tray 3
- Tray 4
(available only if **Tray 4** has been selected for **Paper Source Options** on the Printer tab)
- Bypass Tray
(available only if **Bypass Tray** has been selected for **Paper Source Options** on the Printer tab)

The paper sizes available for each paper source are as follows:

Paper Size	Auto	Tray 1	Tray 2, 3, 4	Bypass Tray
A4	○	○	○	○
8.5×11" (Letter)	○	○	○	○
B5	○	○	○	○
B4	○	○	○	○
8.5×13" (Folio)	○	×	○	○
8.5×14" (Legal)	○	×	○	○
8K	○	×	○	○
A3	○	×	○	○
11×17" (Ledger)	○	×	○	○
A5	○	○	×	○
Postcard	○	○	×	○
5.5×8.5" (Statement)	×	×	×	○
A6	×	×	×	○
B6	×	×	×	○
Booklet on A4	○	○*	○	×
Booklet on Letter	○	○*	○	×
Booklet on A3	○	×	○	×
Booklet on Ledger	○	×	○	×
Custom	×	×	×	○

Note

○ : supported; × : not supported

* : not supported if **Fit To Output Size** or **Change Output Size (No Zoom)** has been selected for **Layout Mode** on the **Layout** tab.

Output Destination

Specify an output destination. Options include:

- Center Output Tray (default)
Printouts are delivered face down.

- Finisher Tray Upper
(available only if **Bypass Tray** has not been selected for **Paper Source** on the Paper/Output tab)
- Finisher Tray Lower
(Finisher Tray Upper and Finisher Tray Lower are available only if **Finisher** has been selected for **Paper Output Options** on the Printer tab)
- Side Output Tray
Printouts are delivered face up.
(available only if **Side Output Tray** has been selected for **Paper Output Options** on the Printer tab)

Note

Paper of the following paper sizes, even if selected, will not be output to to Finisher Tray Upper or Finisher Tray Lower: postcard, A6, B6, custom paper size.

Image Orientation

Select the orientation of the image when printed. Options include:

- Portrait (default)
Portrait means the page is printed with the height of the image greater than the width. When you view a page that is printed with a portrait orientation, you hold it with the long edges to the sides.
- Landscape
Landscape means the page is printed with the width of the image greater than the height. When you view a page that is printed with a landscape orientation, you hold it with the short edges to the sides.

2 Sided Print

Select whether you want to print on one or both sides of the paper. If you are printing on both sides, you have to decide whether to align to the long or short edge of the paper. Options include:

- 1 Sided Print (default)
Prints only on one page.
- Flip on Long Edge
Two-sided printing aligned to the long edge of the paper.
- Flip on Short Edge
Two-sided printing aligned to the short edge of the paper.

Two-sided print options are available only if all of the following conditions are met:

- **Duplex Module** has been selected on the Printer tab;
- **Bypass Tray** has not been selected for **Paper Source** on the Paper/Output tab.

Paper Type (Bypass Tray)

Select the type of paper or media for the bypass tray. Options include:

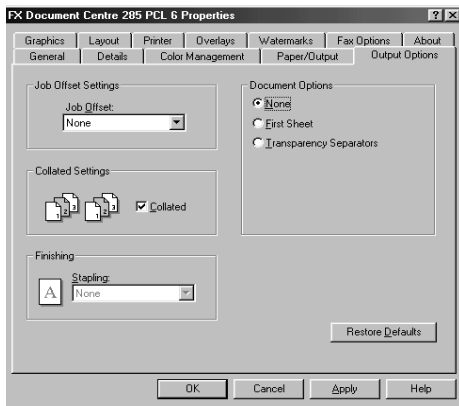
- Plain (default)
- Heavyweight
- Transparency

Enabled only if **Bypass Tray** has been selected for **Paper Source Options** on the Printer tab.

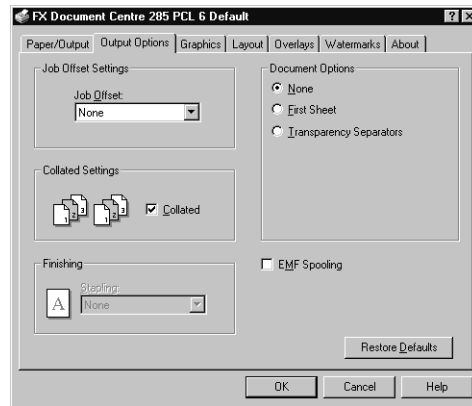
Restore Defaults

Restore the settings in the dialog box to their default values.

●●● Output Options



Windows 95/Windows 98/Windows Me



Windows NT 4.0/Windows 2000

The Output Options tab has some advanced features for sending a print job. Notice that there are image displays of Collated Settings and Finishing which will change according to the selections made. You can either click on these displays or choose from the drop-down list (for Stapling) to make selections.

Job Offset Settings

This feature provides a means of identifying one print job from another in the printer output tray by outputting jobs in an in-out manner.

Job Offset

Options include:

- **None** (default)
No job offset.
- **Offset Per Job**
Offsets each print job.
- **Offset Per Set**
Offsets each set within a print job. This will only apply when two or more sets have been selected.

The two job offset options are available only if either one of the following conditions is met:

- **Offset Catch Tray** has been selected on the Printer tab and **Center Output Tray** for **Output Destination** on the Paper/Output tab; or
- **Finisher** has been selected for **Paper Output Options** on the Printer tab and **Finisher Tray Upper** for **Output Destination** on the Paper/Output tab.

Collated Settings

Specify how you want your document to be arranged.

Collated

 (default: on)

Check on the check box to collate or uncollate your documents. Enabled only if all of the following conditions are met:

- **Hard Disk** has been selected on the Printer tab;
- more than 1 is selected for **Copies** on the Paper/Output tab.

Finishing

Select where to staple your printed document.

Paper sizes that can be stapled include A5, B5, A4, 8.5×11", B4, A3, 8.5×13", 8.5×14", 8K and 11×17".

Stapling

Options include:

- None (default)
Staple function off.
- Top Left Corner
- Top Right Corner
- Bottom Left Corner
- Bottom Right Corner

Enabled only if all of the following conditions are met:

- **Finisher** has been selected for **Paper Output Options** on the Printer tab;
- **Hard Disk** has been selected on the Printer tab;
- **Finisher Tray Upper** has been selected for **Output Destination** on the Paper/Output tab;
- **Collated** has been selected for **Collated Settings**;
- more than 1 has been selected for **Copies** on the Paper/Output tab.

Note

The finisher can staple up to a maximum of 30 sheets.

Document Options

Enables special output document options for print jobs. Options include:

None (default)

The print job is output normally.

First Sheet

Allows the paper source for the first sheet in your job to be different from the rest of the printed output sheets. The paper size must be the same as the body of the document.

When this is selected, a drop-down list, **Feed First Sheet from** will become available for you to choose your paper source for the First Sheet. Options include:

- Auto (default)
- Tray 1
- Tray 2
- Tray 3
- Tray 4
(available only if **Tray 4** has been selected for **Paper Source Options** on the Printer tab)
- Bypass Tray
(available only if all of the following conditions are met:
 - on the Printer tab, **Bypass Tray** has been selected;
 - on the Paper/Output tab, **1 Sided Print** has been selected for **2 Sided Print** and **Finisher Tray Upper** has *not* been selected for **Output Destination**)

Transparency Separators

Allows separators to be inserted between the transparencies output of a print job.

Enabled only if all of the following conditions are met:

- on the Printer tab, **Bypass Tray** has been selected;
- on the Paper/Output tab, **Bypass Tray** has been selected for **Paper Source** and **Transparency for Paper Type (Bypass Tray)**.

When this is selected, a drop-down list, **Feed Separators from** will become available for you to choose your paper source for the separators. Options include:

- Use Printer Settings (default)
- Auto
- Tray 1
- Tray 2
- Tray 3
- Tray 4
(available only if **Tray 4** has been selected for **Paper Source Options** on the Printer tab)

EMF Spooling (for Windows NT 4.0/Windows 2000 drivers only)

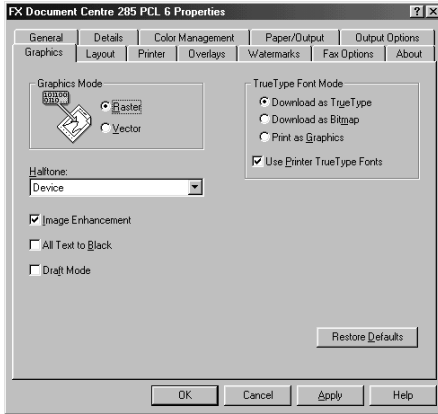
Check the check box to allow the print job to be output in vector graphic mode.

Enabled only if **Vector** has been selected for **Graphics Mode** on the Graphics tab.

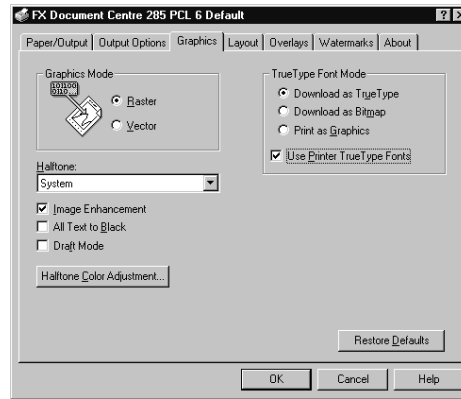
Restore Defaults

Restore the settings in the dialog box to their default values.

●●● Graphics



Windows 95/Windows 98/Windows Me



Windows NT 4.0/Windows 2000

The Graphics tab has option settings that affect the quality of a printed output. Notice that there is a visual representation of the selected graphics mode. Clicking the image will toggle both the radio button and the image display selections.

Graphics Mode

The graphics mode option enables you to optimize graphics printing, increase speed and improve print quality. Options include:

- **Raster**
Graphics are sent to the printer as bitmap raster images (i.e. images composed of individual dots). The printed output may appear to be a closer match to the screen image than the other mode, but printing is slower.
- **Vector (default)**
Graphics are sent to the printer as a combination of vector and raster images. This mode enables images to be printed faster but not all graphic images can be printed using this mode. If the printed graphic images do not appear the same way as they did on your screen, select **Raster** and reprint your graphic.

Halftone

Halftone refers to a type of pattern that is applied to the printed image. By using a combination of black dots, these patterns produce a grey appearance on the printed image. This Halftone feature is designed to process images (e.g. photographs) but not computer generated art (e.g. clip art). The appearance of the printed image will vary depending on the the Halftone settings. The best way to select a Halftone setting for your graphic image is to experiment. Print a graphic image at each setting and choose the one you like best. Note the different options available for the different drivers.

For Windows 95/Windows 98/Windows Me:

- **Device (default)**
Uses the default printer Halftone attributes to produce the image objects.
- **Line Art**
Provides solid lines and sharp contrasts between shaded areas. It is usually used for images with fine lines.
- **Fine**
Provides smooth shades of grey.

- **Coarse**
Provides rough greyscale with high contrasts for images that will be scanned/copied.
- **Diffusion**
Ideal for photographic images. However, it requires more time to create the appearance of grey scale. Available only if **Raster** has been selected for **Graphics Mode**.

For Windows NT 4.0/Windows 2000:

- **Device (default)**
Uses the default printer Halftone attributes to produce the image objects. Available only if **Vector** has been selected for **Graphics Mode**.
- **System**
Enables the system to process the Halftone setting. Click **Halftone Color Adjustment** for system halftone color adjustment.

Image Enhancement (default: on)

Enhances the quality of the output image.

All Text to Black (default: off)

Sets the color of all text in the print job to black. If this is not selected, colors will be printed in varying degrees of grey. Disabled if **Print as Graphics** has been selected for **TrueType Font Mode**.

Draft Mode (default: off)

Reduces the amount of toner the printer uses by using less toner on each page.

When this is selected, text and graphics are printed in grey rather than black. It is suitable for printing of drafts.

TrueType Font Mode

Select how the Windows TrueType fonts are to be processed. Options include:

- **Download as TrueType (default)**
The complete character set of the TrueType font contained on the page is sent to the printer in an outline form that the printer can understand and deal with directly. The downloaded fonts are vector-based, scalable typefaces.
- **Download as Bitmap**
Each TrueType character will be sent to the printer as an individual bitmap font. The downloaded fonts are raster-based, non-scalable typefaces.
- **Print as Graphics**
Prints TrueType texts as graphic images. The printed output may appear to be a closer match to the screen image than the other options, though it may print slower. Enabled only if **Raster** has been selected for **Graphics Mode**.

Use Printer TrueType Fonts (default: on)

When this is selected, printer-resident fonts will be used and the fonts will not be downloaded to the printer, unless they are not present on the printer. This frees memory and speeds up printing. Disabled if **Print as Graphics** has been selected.

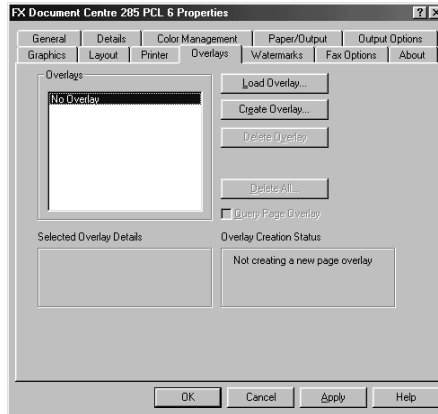
Halftone Color Adjustment (for Windows NT 4.0/Windows 2000 only)

Click to display the Halftone Color Adjustment dialog box for setting the color adjustment values that are used to adjust the color of bitmap images for printing. Color adjustments affect certain attributes of the image, such as contrast and brightness. Enabled only if **System** has been selected for **Halftone**.

Restore Defaults

Restore the settings in the dialog box to their default values.

Overlays



The Overlays function is meant for printing one or more objects (texts/graphics) on every page of your document, e.g. letterhead, logo. An Overlay object is created within one page, and is usually known as a page overlay. Once created and stored in the printer, a page overlay can be invoked upon request and eliminates the need to download the same information over again, thus saving transmission time.

Load Overlay

When you want to use file from an external source as an overlay, click this button to inform the overlay manager of the file and its location.

Note

If you source an external file from a floppy disk and then remove the disk from the disk drive, the file will no longer be available as an overlay. If you intend to use this file regularly, it is recommended that you copy the file to your system local disk before using this button.

Create Overlay

Creates and stores a Page Overlay from a file containing the overlay that you want.

See

"3.6 Printing Data Combined Using Overlays" for more details on creating overlays.

Delete Overlay

To delete an overlay, select it in the Overlay list box, and click **Delete Overlay**. Click **Yes** to confirm deletion and **No** to abort the action.

Delete All

Deletes all overlays from any or all of the destinations.

Query Page Overlay

When this is selected, a message box requesting for confirmation will appear whenever a page overlay command is sent to the printer. If this option is off, the selected page overlay file will be sent directly to the printer.

Note

*This option is not active if **No Overlay** is selected or if the currently selected overlay has been permanently downloaded to the printer.*

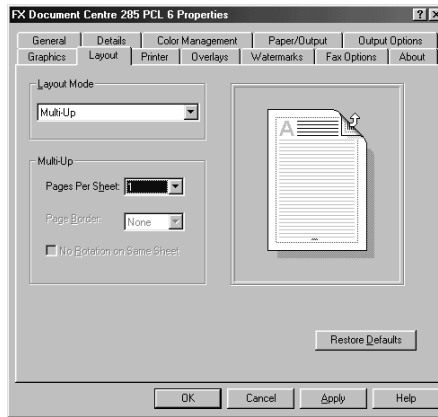
Selected Overlay Details

Displays information on the selected overlay.

Overlay Creation Status

Displays information regarding the creation of overlays.

●●● **Layout**



The Layout property provides six job finishing features for you to modify the printed layout of a document. Notice that an image is displayed for each type of layout mode selected and which also indicates the current page orientation.

Layout Mode

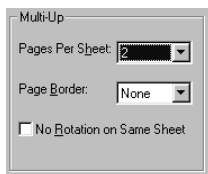
Provides a list of the job finishing options:

- Multi-Up (default)
- Booklet Creation
(available only if **Duplex Module** has been selected on the Printer tab)
- Fit To Output Size
- Zoom
- Change Output Size (No Zoom)
- Poster

Selecting each of the features will display one of the following corresponding options:

(1) Multi-Up

(available when **Multi-Up** has been selected for **Layout Mode**)



The Multi-Up function allows more than one page to be printed on the same paper.

Pages Per Sheet (default: 1)

Lists the possible pages per sheet for the Multi-Up printing function: 1, 2, 4, 6, 9, 16.

Page Border

To provide options of printing each document page with a page border:

- None (default)
Border is not applied.
- Grid
A rectangle is drawn to divide each document page on the paper output.
- Shadow
A rectangle with drop shadow effect is drawn around each document page.

Enabled when more than 1 has been selected for **Pages Per Sheet**.

No Rotation on Same Sheet (default: off)

Defines how the Multi-Up document pages of different orientations are to be handled on the same printed sheet. In general, the first document page of each sheet will determine the physical orientation of that output sheet.

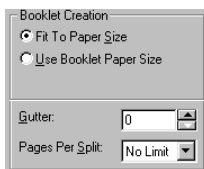
When this is not selected, images that have a different orientation from the first document page will be rotated for best fit on the same sheet with minimum size reduction.

When this is selected, images that have a different orientation from the first document page will be scaled down further without page rotation, so as to keep the same viewing orientation as the first document page on the same sheet.

Enabled when more than 1 has been selected for **Pages Per Sheet**.

(2) Booklet Creation

(available only when **Booklet Creation** has been selected for **Layout Mode**)



This function allows the document to be printed as a booklet. Document pages are re-ordered and printed 2-Up on each sheet of paper. This allows that the output sheets to be stacked and folded to form a booklet, and the pages will appear in the correct order.

When this feature is chosen in Layout Mode, the following dialog box will be displayed if **Flip on Short Edge** has not been selected for **2 Sided Print** on the Paper/Output tab:



Take note of the message and click **OK** to proceed.

Booklet Creation

There are two types of booklet creations:

- **Fit To Paper Size** (default)

Allows a non-booklet document to be printed as a booklet. Each document page is scaled down and printed to fit the booklet output using a paper size that is defined by the document.
- **Use Booklet Paper Size**

Selecting this option will change the current Paper Size setting in the driver to a specified booklet size. This selection applies only to documents that are printed using the paper size defined in the driver as the target paper output. It does not affect the normal printout of a document unless the document is created or formatted as a booklet on a specific paper size. The application is presented with a special paper size such as Booklet on A4. Using these sizes means that the application is formatting the data for the target paper size. The booklet document is therefore printed without scaling the pages. The options available for creating a booklet document are:

 - Booklet on Letter
 - Booklet on Ledger
 - Booklet on A4 (default)
 - Booklet on A3

Gutter (default: 0)

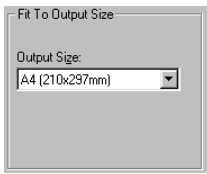
Gutter is the spacing in dots between two document pages on a sheet of paper. Valid range is from 0 to 150 dots.

Pages Per Split (default: No Limit)

Pages Per Split is the number of pages to be printed as a booklet. The number will be in multiples of 4. Options include 4, 8, 12, 16, No Limit. When No Limit is selected, all pages will be output in one booklet.

(3) Fit To Output Size

(available when **Fit To Output Size** has been selected for **Layout Mode**)



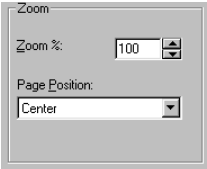
This feature allows you to print on a paper size that is different from the page size designated in your document. The document page will be scaled and printed on a smaller or larger paper.

Fit to Output Size (default: A4 (210x297 mm))

Lists the possible paper sizes that can be used. The options available for the paper size are similar to the settings of **Paper Size** on the Paper/Output tab.

(4) Zoom

(available when **Zoom** has been selected for **Layout Mode**)



This will enlarge or reduce your document page for printing.

Zoom % (default: 100 %)

Define a zoom % of between 50 to 400 % for enlargement (>100 %) or reduction (<100 %) of your page.

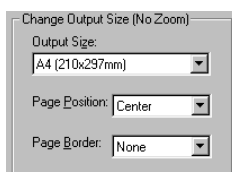
Page Position

Select the position where the document page is to be printed on the output:

- Top Left
- Top Right
- Center (default)
- Bottom Left
- Bottom Right

(5) Change Output Size (No Zoom)

(available when **Change Output Size (No Zoom)** has been selected for **Layout Mode**)



This feature allows you to print on a paper size that is different from the page size designated for your document. The document page will be scaled and printed on a smaller or large paper size.

Output Size (default: A4 (210x297 mm))

Lists the possible paper sizes that can be used. The options available for the paper size are similar to the settings of Paper Size on the Paper/Output tab.

Page Position

Specify the position where the document page is to be printed on the output:

- Top Left
- Top Right
- Center (default)
- Bottom Left
- Bottom Right

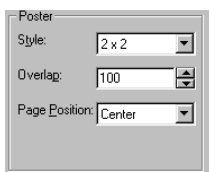
Page Border

To provide options of printing each document page with a page border:

- None (default)
Border is not applied.
- Shadow
A rectangle with drop shadow effect is drawn around each document page.

(6) Poster

(available when **Poster** has been selected for **Layout Mode**)



This feature allows you to enlarge proportionally and print the image of each document across multiple pages.

Note

Depending on the paper size to be used and the image size to be output, you may not be able to carry out printing. When this happens, reduce either the paper size or image size, and then print again.

Style

Select the number of times of its page size to enlarge or a zoom % (under Custom) to define the style:

- 2 x 2 (default)
- 3 x 3
- 4 x 4
- Custom

Overlap (default: 100)

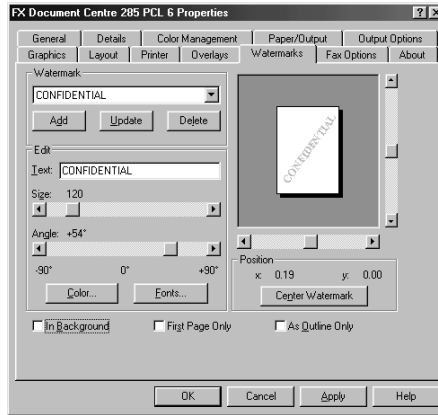
Define the overlapped width between each enlarged image across different page. The width can be set between 0 - 150 dots.

Page Position

Select the position where the document page is to be printed on the output:

- Top Left
- Top Right
- Center (default)
- Bottom Left
- Bottom Right

••• Watermarks



The Watermarks feature allows you to print text in the background or foreground of a page. Watermarks can be applied to the first page or all pages of a document. A selection of pre-defined watermarks is available. You can modify these or add new ones to the list.

- To create a watermark:

Procedure

- 1 Specify the text for the watermark in **Text** (maximum 100 characters).
- 2 Select **Fonts** to display the Font dialog box and specify the font, font style and size. Font style includes regular, italic, bold and bold italic; size ranges from 6-900.
- 3 Select **Color** to display the Color dialog box and specify/create the required colour.
- 4 Specify the position and angle of the text by adjusting the Angle scrollbar (-90 to +90 degrees) and the scrollbar just below the preview window which moves the x and y position values. These position values are in the 1/100ths (0.01) of an inch and are offsets from the page centre. To reset the position to the paper origin, press **Center Watermark**.
- 5 Click **Add** to add the new watermark to the Watermark list.

- To edit a watermark:

Procedure

- 1 Select an existing watermark from the Watermark drop-down list.
- 2 Make changes to it as required.
- 3 Click **Update** to replace the previous version or **Add** to save a modified version of the watermark.

- To delete a watermark:

Procedure

- 1 Select an existing watermark from the Watermark drop-down list.
- 2 Click **Delete** to remove the watermark from the list.

To print a watermark, the options available include:

In Background

Selecting this prints the watermark underneath the primary texts and graphics in the document. Otherwise the watermark will be printed on top of all images in the document. Disabled if **As Outline Only** has been selected.

First Page Only

Selecting this prints watermark on the first page of the document only. Otherwise the watermark will be printed on all pages.

As Outline Only

Selecting this prints the text outline of the watermark which is always printed on top of all document images. Disabled if **In Background** has been selected.

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5

Mode Menu and Common Menu

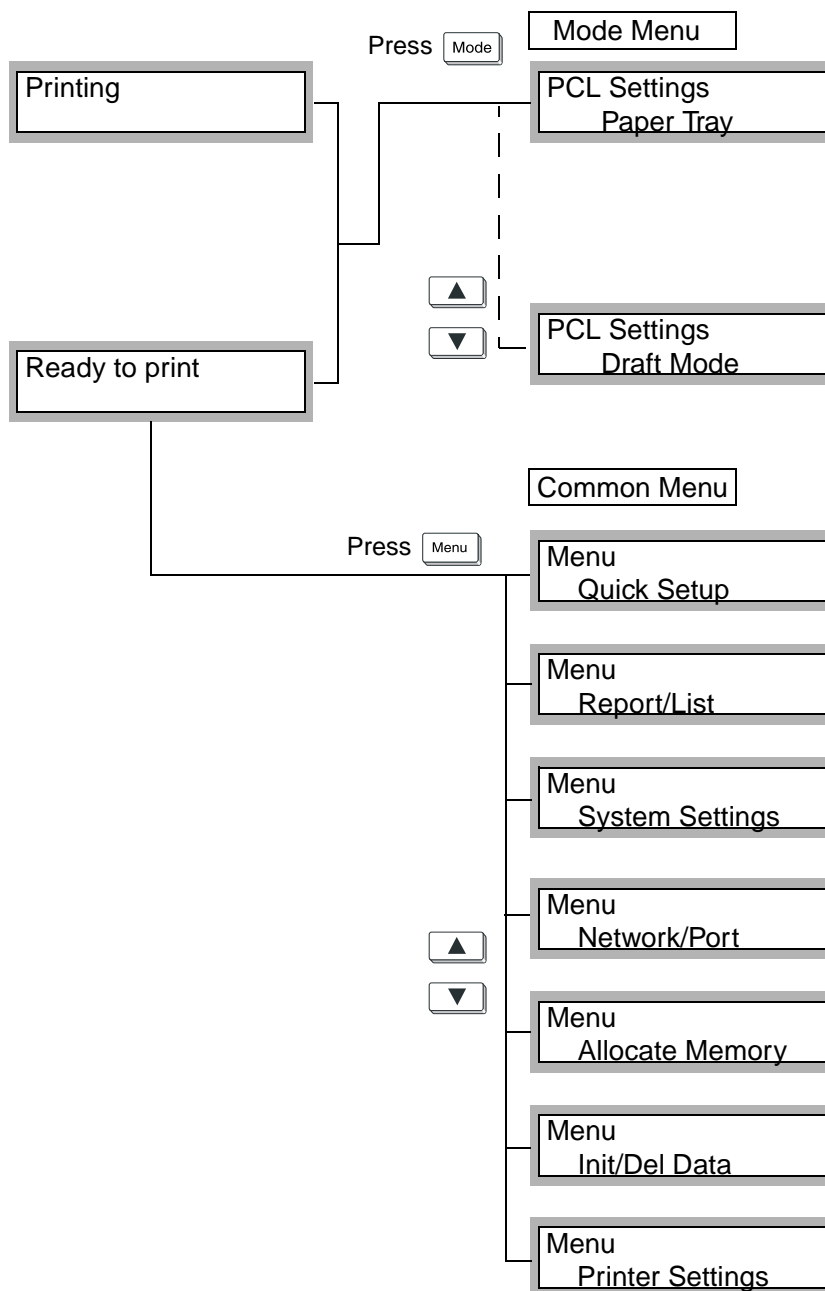
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5.1 Menus

This section explains about the types and levels of menu.

5.1.1 About menu

There are two types of menus: mode menu and common menu.

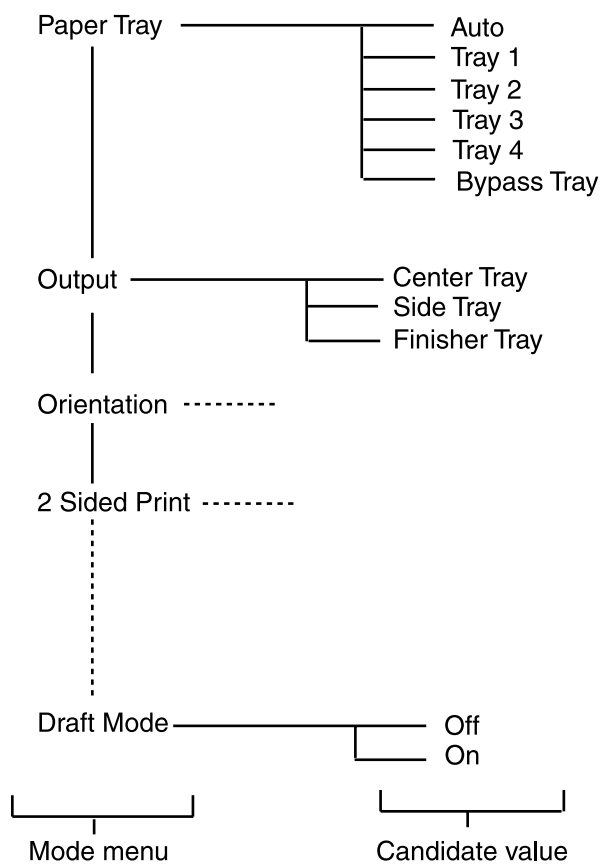


5.1.2 Mode menu

The mode menu consists of the PCL settings.

It is made up of the following levels:

- mode menu > candidate value



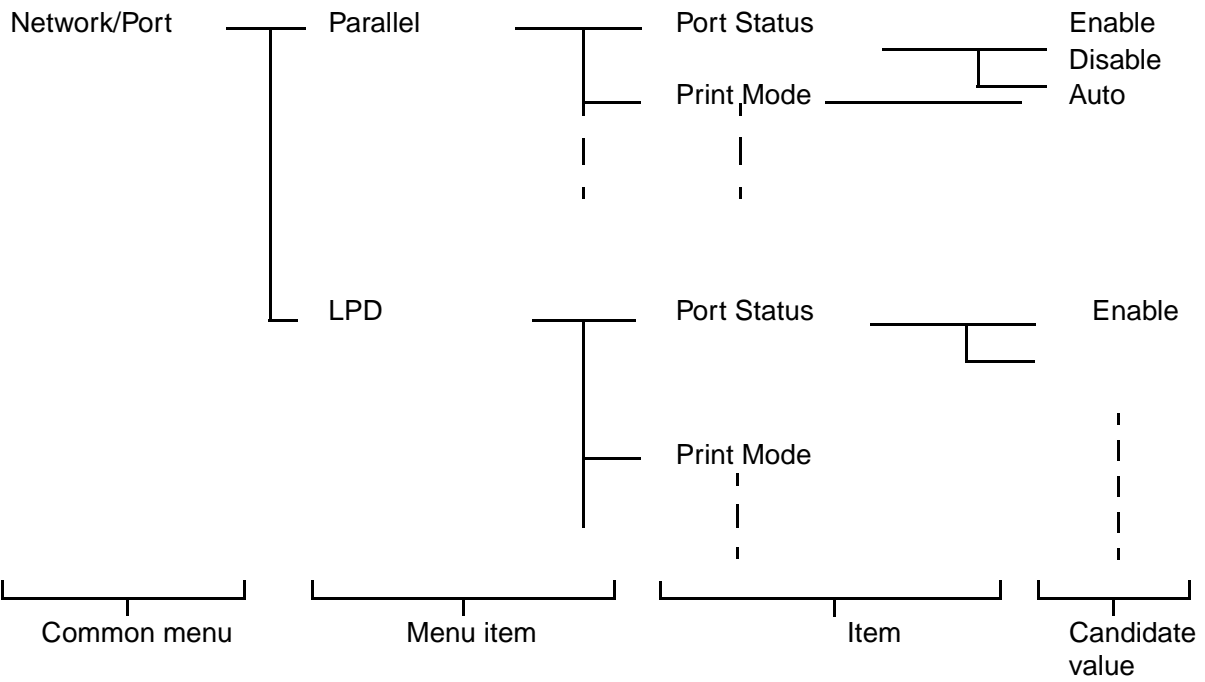
The above diagram shows only a portion of the PCL Settings mode menu levels.

5.1.3 Common menu

Common menu consists of Quick Setup, Report/List, System Settings, NetWork/Port, Allocate Memory, Initialize/Delete Data and Printer Settings. It is a screen to set items common to all print modes.

Common menu is made up of the following levels:

- Common menu > Menu item > Item > Candidate value



The above diagram shows only a portion of the Network/Port from the common menu.




Common Menu	Overview	Reference
Quick Setup	By following the flow, sets the basic essential settings needed to use the printer.	"2.3 Using Quick Setup Menu"
Report/List	Prints the PCL Settings, Printer Settings, Error History, Job History, Print Meter, PCL Font Lists etc.	"5.4.1 Types of reports/lists"
System Settings	Sets the operation settings like fault tone, system clock, etc.	"5.3.1 List of common menu items"
Network/Port	Sets the interface type to connect to computer, and the essential settings for transmission. <div style="border: 1px solid black; padding: 2px; width: fit-content;">Note</div> <i>You cannot select other settings for a port that has been set to Disable.</i>	"5.3.1 List of common menu items"
Allocate Memory	Changes the memory for each of the interface. <div style="border: 1px solid black; padding: 2px; width: fit-content;">Note</div> <i>You cannot change the memory for a port that has been set to Disable.</i>	"5.3.1 List of common menu items "
Initialize/Delete Data	Initializes NVM, Hard Disk and Print Meter.	"5.3.1 List of common menu items "
Printer Settings	Sets settings related to paper and paper tray.	"5.3.1 List of common menu items"

5.2 Mode Menu Items

This section explains the values that can be set in each of the mode menu items and the setting method.

5.2.1 List of Mode Menu items

●●● PCL Settings

Menu item	Explanation
Paper Tray	<p>Sets the paper tray that supplies paper. The candidate values are:</p> <ul style="list-style-type: none"> • Auto (default) Supplies paper from a selected tray among trays which have been loaded with the paper size set in the Paper size selection. However, the bypass tray cannot be set for automatic paper supply. • Tray 1 • Tray 2 • Tray 3 • Tray 4 • Bypass Tray Supplies paper from bypass tray. In this case, the paper size specified in Paper size selection must be loaded in the bypass tray. This option is displayed when the bypass tray has been installed. <p>Note</p> <ul style="list-style-type: none"> • When Auto is selected and the same size of papers are set in the same direction in multiple trays, the paper tray retrieved will be in the order of Tray 1, Tray 2, Tray 3 and then Tray 4. • The values set are changeable by commands. • The setting takes on default value when the NVM is initialized. <p>LOOK</p> <ul style="list-style-type: none"> • When Tray 1 to Tray 4 are selected, the Paper size selection cannot be set as the paper loaded in these trays become the paper sizes. • When Auto and Bypass Tray have been selected, press  to move to Auto and Bypass Size respectively, then press  or  to select the required paper size. • When Bypass Tray is set and wrong paper size is confirmed, a message requesting the specified paper size will appear in the control panel.
Output	<p>Sets to output with printed page facing up or down. The candidate values are:</p> <ul style="list-style-type: none"> • Center Tray (default) Outputs with the printed side facing down. Also, when printing two-sided pages, the odd-numbered pages will be facing down. • Side Tray Outputs with the printed side facing up. In addition, during two-sided printing, the odd-numbered pages will be facing down. • Finisher Tray <p>Note</p> <ul style="list-style-type: none"> • The values set are changeable by commands. • The setting takes on default value when the NVM is initialized.

Menu item	Explanation
Orientation	<p>Sets the orientation for printing. The candidate values are:</p> <ul style="list-style-type: none"> • Portrait (default) • Landscape. <p>Note</p> <ul style="list-style-type: none"> • <i>The values set are changeable by commands.</i> • <i>The setting takes on default value when the NVM is initialized.</i>
2 Sided Print	<p>Sets two-sided printing. The candidate values are:</p> <ul style="list-style-type: none"> • Off (default) • On which includes another set of options on Binding Edge: <ul style="list-style-type: none"> • Long Edge Flip (default) • Short Edge Flip <p>Note</p> <ul style="list-style-type: none"> • <i>The values set are changeable by commands.</i> • <i>The setting takes on default value when the NVM is initialized.</i> <p>LOOK</p> <p><i>Paper supply from the bypass tray cannot be used for two-sided printing. Also, even if Bypass Tray is set for Paper Tray when two-sided printing is specified, the printing will be in one-sided.</i></p>
Font	<p>Sets the font to be the default. The candidate values are (0 - 80):</p> <ul style="list-style-type: none"> • 0 - CG Times • 1 - CG Times It • 2 - CG Times Bd • 3 - CG Times Bdlt • 4 - Univers Md • 5 - Univers Mdlt • 6 - Univers Bd • 7 - Univers Bdlt • 8 - Univers MdCd • 9 - Univers MdCdlt • 10-Univers BdCd • 11-Univers BdCdlt • 12-AntiqueOlv • 13-AntiqueOlv It • 14-AntiqueOlv Bd • 15-CG Omega • 16-CG Omega It • 17-CG Omega Bd • 18-CG Omega Bdlt • 19-GaramondAntiqua • 20-Garamond Krsv • 21-Garamond Hlb • 22-GaramondKrsvHlb • 23-Courier (default) • 24-Courier It • 25-Courier Bd

Menu item	Explanation
Font (con't...)	<ul style="list-style-type: none"> • 26-Courier BdlT • 27-LetterGothic • 28-LetterGothic It • 29-LetterGothic Bd • 30-Albertus Md • 31-Albertus XbBd • 32-Clarendon Cd • 33-Coronet • 34-Marigold • 35-Arial • 36-Arial It • 37-Arial Bd • 38-Arial BdlT • 39-Times New • 40-Times New It • 41-Times New Bd • 42-Times New BdlT • 43-Symbol • 44-Wingdings • 45-Line Printer • 46-Times Roman • 47-Times It • 48-Times Bd • 49-Times BdlT • 50-Helvetica • 51-Helvetica Ob • 52-Helvetica Bd • 53-Helvetica BdOb • 54-CourierPS • 55-CourierPS Ob • 56-CourierPS Bd • 57-CourierPS BdOb • 58-SymbolPS • 59-Palatino Roman • 60-Palatino It • 61-Palatino Bd • 62-Palatino BdlT • 63-ITCBookman Lt • 64-ITCBookman LtIt • 65-ITCBookmanDm • 66-ITCBookmanDm It • 67-HelveticaNr • 68-HelveticaNr Ob • 69-HelveticaNr Bd • 70-HelveticaNrBdOb • 71-N C Schbk Roman • 72-N C Schbk It • 73-N C Schbk Bd • 74-N C Schbk BdlT • 75-ITC A G Go Bk

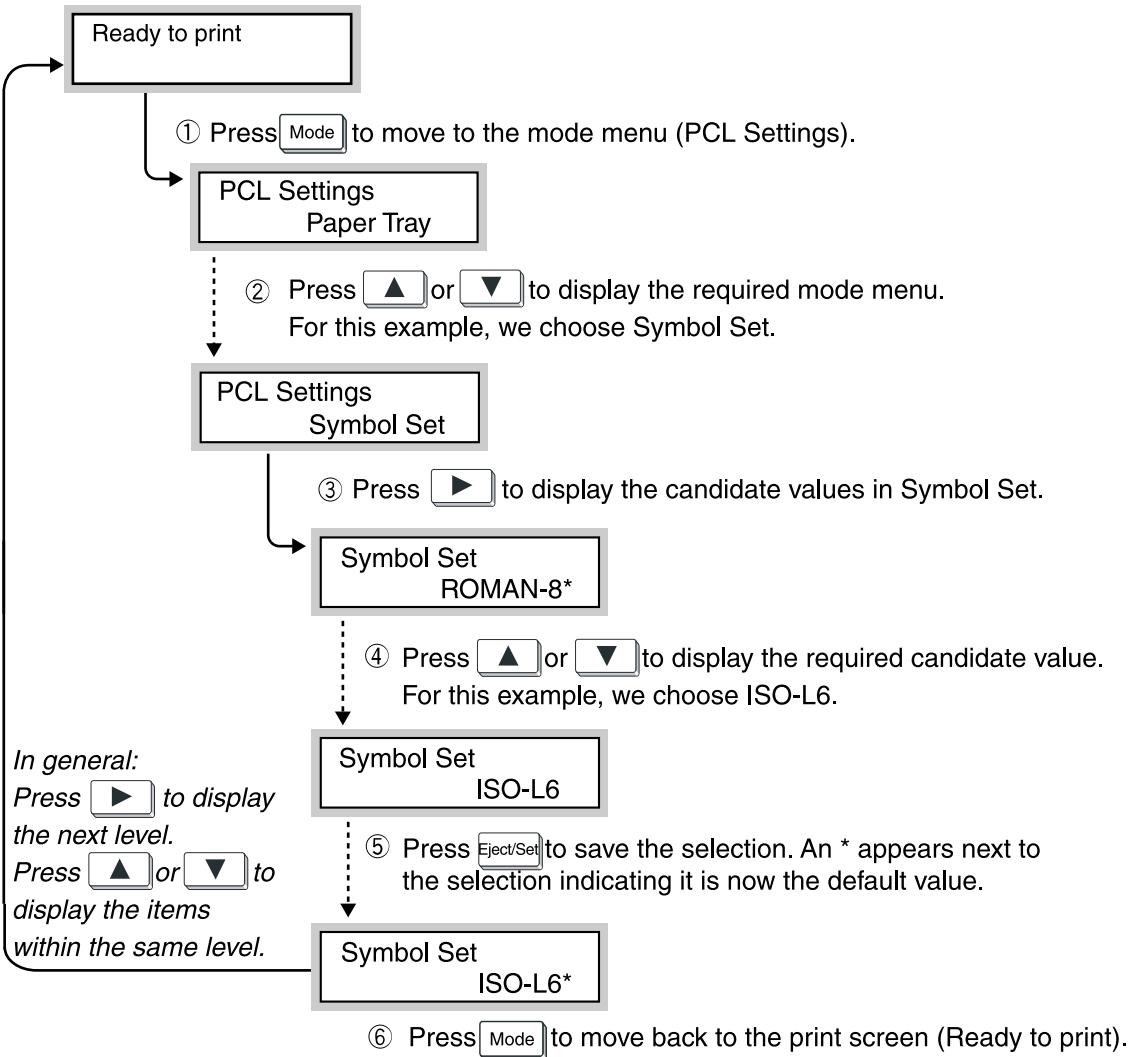
Menu item	Explanation
Font (con't...)	<ul style="list-style-type: none"> • 76-ITC A G Go BkOb • 77-ITC A G Go Dm • 78-ITC A G Go DmOb • 79-ZapfC MdlT • 80-ZapfDingbats
Symbol Set	<p>Sets the specific set of symbols provided by a font with each symbol set defined with a specific application in mind.</p> <p>There are altogether 34 internal symbol sets:</p> <ul style="list-style-type: none"> • ROMAN-8 (default) • ISO-L1 • ISO-L2 • ISO-L5 • ISO-L6 • PC-8 • PC-8 DN • PC-775 • PC-850 • PC-852 • PC-1004 • PC-8 TK • WIN L1 • WIN L2 • WIN L5 • DESKTOP • PS TEXT • MC TEXT • MS PUB • MATH-8 • PS MATH • PI FONT • LEGAL • ISO-4 • ISO-6 • ISO-11 • ISO-15 • ISO-17 • ISO-21 • ISO-60 • ISO-69 • WIN 3.0 • WINBALT • SYMBOL • WINGDINGS <p>Note <i>Available only to all True Type typeface, and to the four Bistream Dutch 801 SWC (CG Times), the four Bistream Swiss 742 SWC (Univers), the four Bistream Fixed Pitch 810 Courier SWC (Courier), and the three Fixed Pitch 850 Letter Gothic 12 pitch/text SWC (Letter Gothic) typefaces.</i></p>

Menu item	Explanation
Symbol Set (con't...)	<p>LOOK Proper selection of Symbol Set is important in printing the required output.</p>
Font Size	<p>Sets the height of the font in points. The range of setting is between 4 to 50. Default is 12 and each unit is 0.25.</p> <p>Note</p> <ul style="list-style-type: none"> • The point size item available depends on the fonts source and font number selected. • The values set are changeable by commands. • The setting takes on default value when the NVM is initialized. • This item is ignored in the selection of a fixed-space scalable font. It is saved and is available when a bitmap font or a proportionately-spaced scalable font is selected.
Font Pitch	<p>Sets the pitch of the font in character per inch. The range of setting is between 6 to 24. Default is 10.00 and each unit is 0.01.</p> <p>Note Pitch is the horizontal spacing of a fixed-space (bitmap or scalable) font in terms of number of characters per inch. This characteristic is ignored when selecting a proportionately-spaced (bitmap or scalable) font but is saved in the font select table and available when fixed spaced font is selected.</p>
Form Lines	<p>Sets the page length (printing area) of one page. The range of setting is between 5-128 lines with 1 line per unit. Default is 64.</p> <p>Note</p> <ul style="list-style-type: none"> • The values set are changeable by commands. • The setting takes on default value when the NVM is initialized.
No. of Sets	<p>Sets the number of output copy. The range of setting is between 1-999 copies. Default is 1 and each unit is 1.</p> <p>LOOK</p> <ul style="list-style-type: none"> • When there is a specific number of output from the host device, this value can be displayed and printed out. Also, it can be changed on the setting of the operator panel. However, number of specified output from Netware, lpd and AppleTalk cannot be changed to the operator panel. • If there is instruction from the host device regarding the number of output copy, that value will be reflected and printed. After printing, the setting of the control panel will be overwritten by that value. • However, for number of output copy specified by Netware, lpd, AppleTalk port, the value of the control panel will not be overwritten after printing.
Image Enhance	<p>Enables or disables image enhancement. Image enhancement is to raise the resolution and to produce smooth print of sharp edges. The candidate values are:</p> <ul style="list-style-type: none"> • On (default) • Off <p>Note</p> <ul style="list-style-type: none"> • The values set are changeable by commands. • The setting takes on default value when the NVM is initialized.

Menu item	Explanation
HexDump	<p>Turns on/off the Hex(adecimal)Dump mode. Turning on the HexDump mode allows data that are sent to the printer to be printed in plain ASCII format.</p> <p>The candidate values are:</p> <ul style="list-style-type: none"> • Off (default) • On <p>Note</p> <ul style="list-style-type: none"> • <i>Turning on the HexDump mode allows data that are sent to the printer to be printed in plain ASCII format. It will not be interpreted by the emulation. HexDump is used for troubleshooting.</i> • <i>HexDump is supported in the Parallel, LPD and Netware interfaces.</i>
Draft Mode	<p>Turns the Draft Mode on and off.</p> <p>The candidate values are:</p> <ul style="list-style-type: none"> • Off (default) • On <p>Note</p> <ul style="list-style-type: none"> • <i>Draft mode causes the printer to use lesser amount of toner. As a result, pages printed with Draft mode turned on will be lighter than pages printed with it turned off.</i> • <i>This feature can be used to print draft-quality documents so as to extend the life of your toner cartridge.</i> • <i>Draft mode will not affect the speed or performance of your printer.</i> • <i>The setting takes on default value when the NVM is initialized.</i>

5.2.2 Setting a mode menu

The procedure to set a mode menu (PCL Settings) which generally has two levels (mode menu > candidate value) is as follows:



5.3 Common Menu Items







This section explains the values that can be set in the common menu items and the setting method.

5.3.1 List of common menu items



The values of System Settings, NetWork/Port, Allocate Memory, Initialize/Delete Data and Printer Settings are as follows:

●●● System Settings

Sets machine operations like fault tone, panel lock, system clock.

Menu item	Explanation
Fault Tone	<p>Sets whether to sound an alarm when a fault is detected in the machine. The candidate values are:</p> <ul style="list-style-type: none"> • Off (default) • On. <p>Note The volume of the fault tone cannot be adjusted.</p>
Panel Lock	<p>Sets whether to lock the control panel with the use of a password. The candidate values are:</p> <ul style="list-style-type: none"> • Off (default) • On <p>When On is selected, you need to enter a password to use the control panel.</p> <p>Note</p> <ul style="list-style-type: none"> • When you are pressing  or  to change the candidate value, press and hold on to the button to run the displays continuously. When both of these buttons are pressed together, the value will be reset to the factory setting. • When On has been selected and a password is not entered, a screen to enter the password appears. Enter a 4-digit password.
Change Password	<p>Sets whether to change the password entered for Panel Lock. Enter a 4-digit password.</p> <p>Note</p> <ul style="list-style-type: none"> • When you are pressing  or  to change the candidate value, press and hold on to the button to run the displays continuously. When both of these buttons are pressed together, the value will be reset to the factory setting. • When Off has been selected for Panel Lock, you cannot change the password.
AutoCancelPause	<p>Sets whether to exit the pause state automatically. The candidate values are:</p> <ul style="list-style-type: none"> • Off (default) • 1-30 Mins (each unit is 1 Min) <p>Note When you are pressing  or  to change the candidate value, press and hold on to the button to run the displays continuously. When both of these buttons are pressed together, the value will be reset to the factory setting.</p>



5.3 Common Menu Items





Menu item	Explanation
System Clock	<p>Sets the system clock, which is the printer built-in clock. Two items can be set:</p> <ul style="list-style-type: none"> • Date: in YYYY.MM.DD format (range of YYYY: 2000-2099 only) • Time: in HH:MM format (range of HH: 00-24) <p>The data and time set here will be printed on reports/lists.</p> <p>Note</p> <p><i>When you are pressing  or  to change the candidate value, press and hold on to the button to run the displays continuously. When both of these buttons are pressed together, the value will be reset to the factory setting.</i></p>
Auto Job History	<p>Sets whether to automatically print the Job History, which contains information on print jobs processed. The candidate values are:</p> <ul style="list-style-type: none"> • Do not print (default) • Print <p>When Print is selected, the previous 50 print jobs which have not been output automatically before will be printed chronologically. Print jobs being processed or waiting to be processed will not be included.</p>
2 Sided Report	<p>Sets whether to print reports/lists on 1 or 2 sides of the paper when the Duplex Module has been installed. The candidate values are:</p> <ul style="list-style-type: none"> • 1 Sided (default) • 2 Sided
Print Area	<p>Sets whether to extend the print area when the PostScript Kit has been installed.</p> <p>The candidate values are:</p> <ul style="list-style-type: none"> • Normal (default) • Extended



●●● NetWork/Port

Sets the conditions of the interface type connected to the computer and the transmission.

Menu item	Explanation
Parallel	<p>The following items are to be set when using the parallel port:</p> <p>Port Status Sets the port status of the parallel interface when the power is switched on. The candidate values are:</p> <ul style="list-style-type: none"> • Enable (default) • Disable <p>LOOK <i>If the memory is not enough when the Port Status is set to Enable, it may be set to Disable automatically. When this happens, either set the Port Status of other ports not in use to Disable or change the memory allocation.</i></p> <p>Print Mode Sets the printer language. The candidate values are:</p> <ul style="list-style-type: none"> • Auto (default) The language to be used will be determined automatically • PCL • PS (available only when PostScript Kit is installed) <p>LOOK <i>When the value is set to Auto, and if the printer language used cannot be found by the automatic printer language detection feature or it is not the selected printer language, the data may be erased.</i></p> <p>PJL Sets whether to enable the PJL commands sent from the computer. The candidate values are:</p> <ul style="list-style-type: none"> • Enable (default) • Disable <p>Adobe Protocol Sets the PostScript protocol. Available only when PostScript Kit is installed. The candidate values are:</p> <ul style="list-style-type: none"> • Normal (default) For communication protocol in ASCII format. • Binary For communication protocol in binary format. Depending on the data, the print processing in this protocol may be faster than Normal. • TBCP (Tagged Binary Communications Protocol) For communication protocol in a mixture of ASCII or binary format which is switched by a specific control code. <p>Note</p> <ul style="list-style-type: none"> • Select the protocol to match the format of the data output by the printer driver. • For normal use, select Normal.

Menu item	Explanation
Parallel (con't...)	<p>Auto Eject Time Sets the time to automatically print and output any remaining data in the printer when it is in a continuous state of not receiving data. The range of setting is between 5-1275 seconds with 5 seconds per unit. Default is 30 seconds. When the next data is not received within the time set here after the last data has been received, it will be deemed as end of job.</p> <p>Note <i>When you are pressing  or  to change the candidate value, press and hold on to the button to run the displays continuously. When both of these buttons are pressed together, the value will be reset to the factory setting.</i></p> <p>Bi-directional Sets whether to enable the bi-directional communication (IEEE1284) for parallel interface. The candidate values are:</p> <ul style="list-style-type: none"> • Enable (default) • Disable
LPD	<p>The following items are to be set when using LPD:</p> <p>Port Status Sets the port status of the LPD interface when the power is switched on. The candidate values are:</p> <ul style="list-style-type: none"> • Enable (default) • Disable <p>Note <i>To set LPD to Enable, you will need to set the IP address .</i></p> <p>LOOK <i>If the memory is not enough when the Port Status is set to Enable, it may be set to Disable automatically. When this happens, either set the Port Status of other ports not in use to Disable or change the memory allocation.</i></p> <p>Print Mode Sets the printer language. The candidate values are:</p> <ul style="list-style-type: none"> • Auto (default) The language to be used will be determined automatically • PCL • PS (available only when PostScript Kit is installed) <p>LOOK <i>When the value is set to Auto, and if the printer language used cannot be found by the automatic printer language detection feature or it is not the selected printer language, the data may be erased.</i></p> <p>PJL Sets whether to enable the PJL commands sent from the computer. The candidate values are:</p> <ul style="list-style-type: none"> • Enable (default) • Disable



Menu item	Explanation
LPD (con't...)	<p>Connect Time-Out Sets the time to disconnect after data transmission is disrupted. The range of setting is between 2-3600 seconds with 1 second per unit. Default is 16 seconds.</p> <p>Note <i>When you are pressing  or  to change the candidate value, press and hold on to the button to run the displays continuously. When both of these buttons are pressed together, the value will be reset to the factory setting.</i></p> <p>TBCP Filter Sets whether to enable the TBCP filter when processing PostScript data. Available only when PostScript Kit is installed. The candidate values are:</p> <ul style="list-style-type: none"> • Enable • Disable (default) <p>IP Filter Sets whether to enable the filter for the IP address used for printing. The candidate values are:</p> <ul style="list-style-type: none"> • Off (default) • On <p>Note <i>If all the IP addresses are registered as 000.000.000.000, this setting will not be in effect even if it is set to On .</i></p> <p>IP List Registers the IP address and mask of the IP address receiving printing when the IP Filter is set to On. You can register up to 10 IP addresses and masks. Enter in the XXX.XXX.XXX.XXX format where XXX ranges from 0-255.</p> <p>Note <i>When you are pressing  or  to change the candidate value, press and hold on to the button to run the displays continuously. When both of these buttons are pressed together, the value will be reset to the factory setting.</i></p>
NetWare	<p>The following items are to be set when using NetWare:</p> <p>Port Status Sets the port status of the NetWare port when the power is switched on. The candidate values are:</p> <ul style="list-style-type: none"> • Enable • Disable (default) <p>LOOK <i>If the memory is not enough when the Port Status is set to Enable, it may be set to Disable automatically. When this happens, either set the Port Status of other ports not in use to Disable or change the memory allocation.</i></p>





Menu item	Explanation
NetWare (con't...)	<p>Transpt Protocol Sets the protocol of the transport layer used by NetWare. The candidate values are:</p> <ul style="list-style-type: none"> • TCP/IP, IPX/SPX (default) • TCP/IP • IPX/SPX <p>Note <i>To use TCP/IP, you will need to set the IP address on both the computer and printer.</i></p> <p>Print Mode Sets the printer language. The candidate values are:</p> <ul style="list-style-type: none"> • Auto (default) The language to be used will be determined automatically • PCL • PS (available only when PostScript Kit is installed) <p>LOOK <i>When the value is set to Auto, and if the printer language used cannot be found by the automatic printer language detection feature or it is not the selected printer language, the data may be erased.</i></p> <p>PJL Sets whether to enable the PJL commands sent from the computer. The candidate values are:</p> <ul style="list-style-type: none"> • Enable (default) • Disable <p>No. of Search Sets the number of times of searching the file server. The candidate values are:</p> <ul style="list-style-type: none"> • No Limit (default) • 1-100 <p>Note <i>When you are pressing  or  to change the candidate value, press and hold on to the button to run the displays continuously. When both of these buttons are pressed together, the value will be reset to the factory setting.</i></p> <p>TBCP Filter Sets whether to enable the TBCP filter when processing PostScript data. Available only when PostScript Kit is installed. The candidate values are:</p> <ul style="list-style-type: none"> • Enable • Disable (default)

Menu item	Explanation
SMB	<p>The following items are to be set when using SMB:</p> <p>Port Status Sets the port status of the SMB port when the power is switched on. The candidate values are:</p> <ul style="list-style-type: none"> • Enable (default) • Disable <p>LOOK <i>If the memory is not enough when the Port Status is set to Enable, it may be set to Disable automatically. When this happens, either set the Port Status of other ports not in use to Disable or change the memory allocation.</i></p> <p>Transpt Protocol Sets the protocol of the transport layer used by SMB. The candidate values are:</p> <ul style="list-style-type: none"> • TCP/IP, NetBEUI (default) • TCP/IP • NetBEUI <p>Note <i>To use TCP/IP, you will need to set the IP address on both the computer and printer.</i></p> <p>Print Mode Sets the printer language. The candidate values are:</p> <ul style="list-style-type: none"> • Auto (default) The language to be used will be determined automatically • PCL • PS (available only when PostScript Kit is installed) <p>LOOK <i>When the value is set to Auto, and if the printer language used cannot be found by the automatic printer language detection feature or it is not the selected printer language, the data may be erased.</i></p> <p>PJL Sets whether to enable the PJL commands sent from the computer. The candidate values are:</p> <ul style="list-style-type: none"> • Enable (default) • Disable <p>TBCP Filter Sets whether to enable the TBCP filter when processing PostScript data. Available only when PostScript Kit is installed. The candidate values are:</p> <ul style="list-style-type: none"> • Enable • Disable (default)



Menu item	Explanation
IPP	<p>The following items are to be set when using IPP:</p> <p>Port Status Sets the port status of the IPP port when the power is switched on. The candidate values are:</p> <ul style="list-style-type: none"> • Enable • Disable (default) <p>Note <i>To set IPP to Enable, you will need to set the IP address .</i></p> <p>LOOK <i>If the memory is not enough when the Port Status is set to Enable, it may be set to Disable automatically. When this happens, either set the Port Status of other ports not in use to Disable or change the memory allocation.</i></p> <p>Print Mode Sets the printer language. The candidate values are:</p> <ul style="list-style-type: none"> • Auto (default) The language to be used will be determined automatically • PCL • PS (available only when PostScript Kit is installed) <p>LOOK <i>When the value is set to Auto, and if the printer language used cannot be found by the automatic printer language detection feature or it is not the selected printer language, the data may be erased.</i></p> <p>PJL Sets whether to enable the PJL commands sent from the computer. The candidate values are:</p> <ul style="list-style-type: none"> • Enable (default) • Disable <p>TBCP Filter Sets whether to enable the TBCP filter when processing PostScript data. Available only when PostScript Kit is installed. The candidate values are:</p> <ul style="list-style-type: none"> • Enable • Disable (default) <p>Access Control Sets whether to enable the access control when entering/exiting the pause state or canceling/deleting print job. The candidate values are:</p> <ul style="list-style-type: none"> • Enable • Disable (default)



Menu item	Explanation
IPP (con't...)	<p>DNS Sets whether to use the name registered in the Domain Name Server (DNS) when it is recognizing the printer. The candidate values are:</p> <ul style="list-style-type: none"> • Enable (default) The DNS name will be used. • Disable The printer will be recognized by its IP address. <p>Add Port No. Sets the number for the added port. The candidate values are:</p> <ul style="list-style-type: none"> • 80 (default) • 0 • 8000-9999 <p>Connect Time-Out Sets the time to disconnect after data transmission is disrupted. The range of setting is between 0-65535 seconds. Default is 60 seconds.</p>
USB	<p>The following items are to be set when using USB:</p> <p>Port Status Sets the port status of the USB port when the power is switched on. The candidate values are:</p> <ul style="list-style-type: none"> • Enable • Disable (default) <p>LOOK <i>If the memory is not enough when the Port Status is set to Enable, it may be set to Disable automatically. When this happens, either set the Port Status of other ports not in use to Disable or change the memory allocation.</i></p> <p>Print Mode Sets the printer language. The candidate values are:</p> <ul style="list-style-type: none"> • Auto (default) The language to be used will be determined automatically • PCL • PS (available only when PostScript Kit is installed) <p>LOOK <i>When the value is set to Auto, and if the printer language used cannot be found by the automatic printer language detection feature or it is not the selected printer language, the data may be erased.</i></p> <p>PJL Sets whether to enable the PJL commands sent from the computer. The candidate values are:</p> <ul style="list-style-type: none"> • Enable (default) • Disable

Menu item	Explanation
USB (con't...)	<p>Adobe Protocol Sets the PostScript protocol. Available only when PostScript Kit is installed. The candidate values are:</p> <ul style="list-style-type: none"> • Normal (default) For communication protocol in ASCII format. • Binary For communication protocol in binary format. Depending on the data, the print processing in this protocol may be faster than Normal. • TBCP (Tagged Binary Communications Protocol) For communication protocol in a mixture of ASCII or binary format which is switched by a specific control code. <p>Note</p> <ul style="list-style-type: none"> • Select the protocol to match the format of the data output by the printer driver. • For normal use, select Normal. <p>Auto Eject Time Sets the time to automatically print and output any remaining data in the printer when it is in a continuous state of not receiving data. The range of setting is between 5-1275 seconds with 5 seconds per unit. Default is 30 seconds. When the next data is not received within the time set here after the last data has been received, it will be deemed as end of job.</p> <p>Note</p> <p>When you are pressing  or  to change the candidate value, press and hold on to the button to run the displays continuously. When both of these buttons are pressed together, the value will be reset to the factory setting.</p>
Port9100	<p>The following items are to be set when using Port9100:</p> <p>Port Status Sets the port status of the Port9100 port when the power is switched on. The candidate values are:</p> <ul style="list-style-type: none"> • Enable • Disable (default) <p>LOOK <i>If the memory is not enough when the Port Status is set to Enable, it may be set to Disable automatically. When this happens, either set the Port Status of other ports not in use to Disable or change the memory allocation.</i></p> <p>Print Mode Sets the printer language. The candidate values are:</p> <ul style="list-style-type: none"> • Auto (default) The language to be used will be determined automatically • PCL • PS (available only when PostScript Kit is installed) <p>LOOK <i>When the value is set to Auto, and if the printer language used cannot be found by the automatic printer language detection feature or it is not the selected printer language, the data may be erased.</i></p>

Menu item	Explanation
Port9100 (con't...)	<p>PJL Sets whether to enable the PJL commands sent from the computer. The candidate values are:</p> <ul style="list-style-type: none"> • Enable (default) • Disable <p>Port No. Sets the port number. The range of setting is between 8000-9999. Default is 9100.</p> <p>Note <i>When you are pressing  or  to change the candidate value, press and hold on to the button to run the displays continuously. When both of these buttons are pressed together, the value will be reset to the factory setting.</i></p> <p>TBCP Filter Sets whether to enable the TBCP filter when processing PostScript data. Available only when PostScript Kit is installed. The candidate values are:</p> <ul style="list-style-type: none"> • Enable • Disable (default) <p>Connect Time-Out Sets the time to disconnect after data transmission is disrupted. The range of setting is between 2-65535 seconds. Default is 60 seconds.</p> <p>Note <i>When you are pressing  or  to change the candidate value, press and hold on to the button to run the displays continuously. When both of these buttons are pressed together, the value will be reset to the factory setting.</i></p>
EtherTalk	<p>The following items are to be set when using EtherTalk. This menu item is available only when PostScript Kit is installed.</p> <p>Port Status Sets the port status of the EtherTalk port when the power is switched on. The candidate values are:</p> <ul style="list-style-type: none"> • Enable • Disable (default) <p>LOOK <i>If the memory is not enough when the Port Status is set to Enable, it may be set to Disable automatically. When this happens, either set the Port Status of other ports not in use to Disable or change the memory allocation.</i></p> <p>PJL Sets whether to enable the PJL commands sent from the computer. The candidate values are:</p> <ul style="list-style-type: none"> • Enable (default) • Disable

Menu item	Explanation
FTP Client	<p>The following items are to be set when using FTP Client.</p> <p>Port Status Sets the port status of the FTP Client port when the power is switched on. The candidate values are:</p> <ul style="list-style-type: none"> • Enable • Disable (default) <p>LOOK <i>If the memory is not enough when the Port Status is set to Enable, it may be set to Disable automatically. When this happens, either set the Port Status of other ports not in use to Disable or change the memory allocation.</i></p>
SNMP	<p>The following items are to be set when using SNMP. These SNMP settings are necessary when using an application program to manage multiple printers remotely. The printer information is managed by SNMP and gathered from SNMP by the application program.</p> <p>Port Status Sets the port status of the SNMP port when the power is switched on. The candidate values are:</p> <ul style="list-style-type: none"> • Enable (default) • Disable <p>LOOK <i>If the memory is not enough when the Port Status is set to Enable, it may be set to Disable automatically. When this happens, either set the Port Status of other ports not in use to Disable or change the memory allocation.</i></p> <p>Transpt Protocol Sets the protocol of the transport layer used by SNMP. The candidate values are:</p> <ul style="list-style-type: none"> • UDP (default) • IPX • IPX, UDP <p>Note</p> <ul style="list-style-type: none"> • To use UDP, you will need to set the IP address on both the computer and printer. • Refer to the manuals of the application program to decide whether to use IPX or UDP. <p>Community (R) Registers the community name needed to read the printer management information (MIB). Enter up to 12 characters for the name. Default is Not Registered.</p> <p>Community (R/W) Registers the community name needed to read/write the printer management information (MIB). Enter up to 12 characters for the name. Default is Not Registered.</p> <p>Community (Trap) Registers the community name used by the trap. Enter up to 12 characters for the name. Default is Not Registered.</p>

Menu item	Explanation
Internet Service	<p>The following item is to be set when using Internet Service. The candidate values are:</p> <ul style="list-style-type: none"> • Enable (default) • Disable <p>If it is set to Enable, you can, through a web browser, make use of the CentreWare Internet Services to display the printer/job status and change printer settings.</p> <p>Note</p> <ul style="list-style-type: none"> • To activate the Internet Service, you will need to set the IP address on both the computer and printer. • You can make use of CentreWare Internet Services to set detailed settings. For more details, refer to "5.5.7 Using CentreWare Internet Services"
TCP/IP Settings	<p>Get IP Address</p> <p>Sets the way of obtaining the essential information for using TCP/IP (IP address, subnet mask, gateway address). The candidate values are:</p> <ul style="list-style-type: none"> • DHCP (default) • RARP • BOOTP • Manually <p>Check with your system administrator for the address if you choose Manually.</p> <p>Note</p> <p>If you change the setting from DHCP or BOOTP to Manually, you will need to set the IP address manually on the screen displayed for setting IP address.</p> <p>IP Address, Subnet Mask, Gateway Address</p> <p>These items will be available whether you choose Manually or automatically (i.e. by DHCP, BOOTP or RARP) for Get IP Address. If you have chosen Manually, enter the value for these items in the XXX.XXX.XXX.XXX format where XXX is between 000-255.</p> <p>LOOK</p> <ul style="list-style-type: none"> • If a wrong IP Address is set, the whole network might be badly affected. • If a wrong Subnet Mask is entered (e.g. setting the bit to "0"), the value will resume the previous setting even if you have pressed after the entering the value. You cannot navigate to other items until the correct value is set. • Enter the Gateway Address only when it is clear that there is a need to do so. You do not need to set it for environment that allows it to be set automatically. <p>Note</p> <p>When you are pressing  or  to change the candidate value, press and hold on to the button to run the displays continuously. When both of these buttons are pressed together, the value will be reset to the factory setting.</p>

Menu item	Explanation
WINS Server	<p>Get DHCP Address Sets whether to obtain automatically the IP Address for WINS server from the DHCP server. This IP Address is needed in order to use WINS. The candidate values are:</p> <ul style="list-style-type: none"> • Off (default) The address will be obtained manually. Check with your system administrator for the address. • On <p>Note <i>If you change the setting from On to Off, you will need to set the IP address manually on the screen displayed for setting IP address.</i></p> <p>Primary IP, Secondary IP These items will be available whether you choose Off (manually) or On (automatically) for Get DHCP Address. If you have chosen Off, enter the value for these items in the XXX.XXX.XXX.XXX format where XXX is between 000-255. If the Primary IP is not in effect, the Secondary IP will not be in effect too.</p> <p>LOOK <i>If a wrong IP Address is set, the whole network might be badly affected.</i></p> <p>Note <i>When you are pressing  or  to change the candidate value, press and hold on to the button to run the displays continuously. When both of these buttons are pressed together, the value will be reset to the factory setting.</i></p>
IPX/SPX FrameType	<p>The following items are to be set when using IPX/SPX Frame Type.</p> <p>The candidate values are (<u>when the Token Ring board is not installed</u>):</p> <ul style="list-style-type: none"> • Auto (default) Sets the frame type automatically. • Ethernet II Uses the Ethernet specification frame type. • Ethernet 802.3 Uses the IEEE802.3 specification frame type. • Ethernet 802.2 Uses the IEEE802.2 specification frame type. • Ethernet SNAP Uses the IEEE802.3/IEEE802.2/SNAP specification frame type. <p>The candidate values are (<u>when the Token Ring board is installed</u>):</p> <ul style="list-style-type: none"> • Auto (default) Sets the frame type automatically. • Token Uses the IEEE802.5/IEEE802.2 specification frame type. • Token SNAP Uses the IEEE802.3/IEEE802.2/SNAP specification frame type.

Menu item	Explanation
Ethernet	<p>Sets the transmission speed/connector type of the Ethernet interface. This menu item is available only when the interface board for Token Ring has not been installed. The candidate values are:</p> <ul style="list-style-type: none"> • Auto (default) 100BASE-TX or 10BASE-T will be interchanged automatically. • 100BASE-TX Select this when you want to fix the value at 100BASE-TX for use. • 10BASE-T Select this when you want to fix the value at 10BASE-T for use.
Token Ring	<p>The following items will be displayed when the interface board for Token Ring has been installed:</p> <p>Transmit Rate Sets the transmit rate. The candidate values are:</p> <ul style="list-style-type: none"> • Auto (default) • 4M • 16M • 100M <p>Max Packet Size Sets the maximum packet size. The candidate values are:</p> <ul style="list-style-type: none"> • 1500B (default) • 2088B • 4472B • 8232B <p>Source Routing Sets whether to enable source routing. The candidate values are:</p> <ul style="list-style-type: none"> • Off (default) • On <p>When it is set to On, transmission among different rings connected by bridges can be carried out.</p>

☰ **Allocate Memory**

Changes the memory capacity of each of the interface.

LOOK

- *If the memory capacity is changed, all the data stored in each of the memory domain will be deleted as the memory will be reset.*
- *You cannot allocate the memory capacity to exceed its overall capacity. If the value set exceeded the memory capacity when the power is switched on, it can be automatically adjusted depending on the system. For details on memory allocation, refer to "2.8 Memory Allocation".*
- *When printing documents with large amount of data, the resolution might decrease. Increasing memory capacity might prevent a decrease of resolution.*

Menu Item	Explanation
PCL Memory	<p>Sets the capacity of the memory for the use of PCL. When the memory capacity is increased, the printing speed may be increased, complicated document can be printed, and a good image quality can be obtained.</p> <p>The range of setting is between 2.50-32.00 MB with 0.25 MB per unit. Default is 5.00 MB.</p> <p>LOOK</p> <ul style="list-style-type: none"> • <i>When Menu is pressed after the setting, a system reset will be executed. "Diagnostics in progress" will be displayed during the system reset and key operations are not accessible.</i> • <i>All the data stored in the various memory domains will be cleared by reset.</i> • <i>The maximum value of the memory capacity that can be set changes according to the free memory capacity.</i>
PS	<p>Sets the capacity of the memory for use by PostScript. Available only when the PostScript Kit is installed.</p> <p>The range of setting is between 4.50-32.00 MB with 0.25 MB per unit. Default is 8.00 MB.</p> <p>LOOK</p> <ul style="list-style-type: none"> • <i>When Menu is pressed after the setting, a system reset will be executed. "Diagnostics in progress" will be displayed during the system reset and key operations are not accessible.</i> • <i>All the data stored in the various memory domains will be cleared by reset.</i> • <i>The maximum value of the memory capacity that can be set changes according to the free memory capacity.</i>
Buffer Size	<p>Sets the memory capacity of the receive buffer for the respective interfaces. (Receive buffer is the temporary storage location of the data sent from the computer.) For lpd, SMB and IPP, you will set whether to on/off spool, storage location as well as the memory capacity.</p> <p>The memory capacity of the buffer can be changed according to the status and objective of the usage. If the memory capacity for the buffer is increased, the release of the computer for each interface can be speed up. The maximum size that can be set changes according to the free memory capacity.</p> <p>Note</p> <ul style="list-style-type: none"> • <i>When the Port Status of the interface is set to Disable, the items related to the interface will not be available.</i> • <i>Depending on the data volume sent from the computer, the release time for the computer may not change even if the memory capacity is increased.</i>

Menu Item	Explanation
Buffer Size (con't...)	<p>Parallel, NetWare Memory, USB Memory, Port9100 Memory, EtherTalk Memory Sets the memory capacity between 64-1024KB with 32KB per unit. Default is 256K. EtherTalk Memory is available only when PostScript Kit is installed.</p> <p>LPD Spool, SMB Spool The candidate values are:</p> <ul style="list-style-type: none"> • Off (default) No spool processing will be done. When processing LPD/SMB printing from a computer, data by the same interface cannot be received from other computers. The memory capacity of the receive buffer for LPD/SMB is between 64-1024KB with 32KB per unit. Default is 256K. • Hard Disk Spool processing will be done. For the receive buffer used for spool processing, the hard disk is used. Available only when the Printer HDD Kit is installed. • Memory Spool processing will be done. For the receive buffer used for spool processing, memory is used. When this candidate value is selected, the memory capacity of the receive buffer used for spool processing is set between 0.51-32.00MB with 0.25MB per unit. Default is 1.00M. Print data that is larger than the set memory capacity cannot be received. For such instance, select either Off or Hard Disk. <p>IPP Spool The candidate values are (<u>when the Printer HDD Kit is installed</u>):</p> <ul style="list-style-type: none"> • Off (default) No spool processing will be done. When processing IPP printing from a computer, data by the same interface cannot be received from other computers. The memory capacity of the receive buffer for IPP is between 64-1024KB with 32KB per unit. Default is 256K. • Hard Disk Spool processing will be done. For the receive buffer used for spool processing, the hard disk is used. <p>The candidate values are (<u>when the Printer HDD Kit is not installed</u>):</p> <ul style="list-style-type: none"> • between 64-1024KB with 32KB per unit. Default is 256K.

●●● **Initialize/Delete Data**

Executes the initialization of the printer setting values stored in the NV memory, as well as of the hard disk, and print meter.

Note

The value of these items will be reset to default setting after the initialization.

Menu Item	Explanation
NVM	Initializes the NV memory. NV memory is the non-volatile memory that maintains the printer settings even after the power has been switched off. Once the NV memory has been initialized, the candidate value of all the items will be reset to their factory setting.
Hard Disk	Initializes the hard disk. Once the hard disk has been initialized, the PCL/PS data will be deleted. However, Secure Print/Sample Print data will not be erased. This item is available only when the Printer HDD Kit has been installed.
Print Meter	Initializes the print meter.

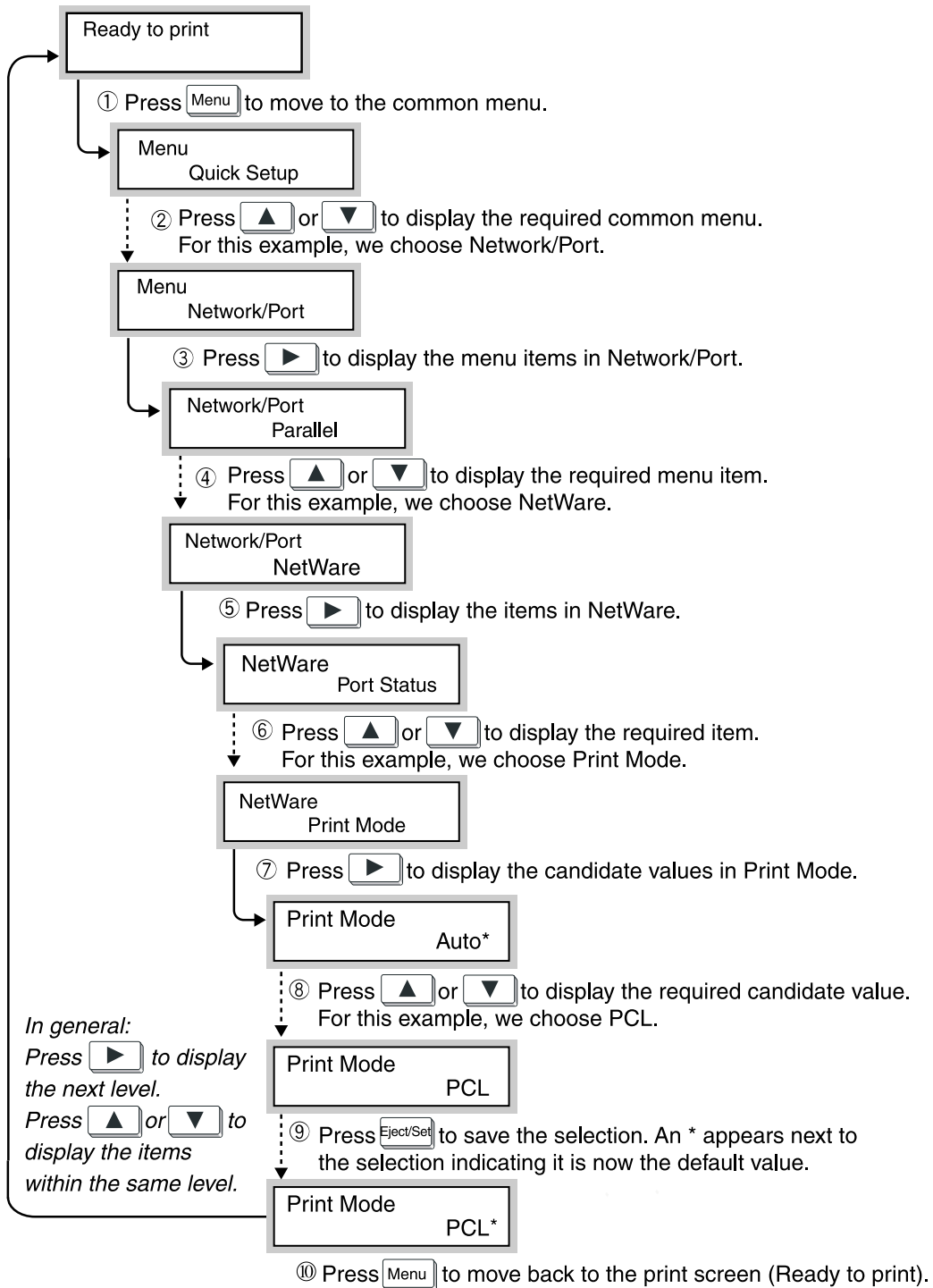
●●● Printer Settings

Includes substitute tray setting.

Menu Item	Explanation
Substitute Tray	<p>The feature of selecting a paper tray corresponding to the size and orientation of the original document when a print instruction has been sent from the computer is known as Auto Tray Selection. The item here sets whether to automatically substitute paper from another tray for printing by Auto Tray Selection when there is no paper in the tray selected. The paper size will be set as well if the paper is to be substituted.</p> <p>The candidate values are:</p> <ul style="list-style-type: none"> • Off (default) No paper tray will be substituted. Displays a message to prompt users to replenish paper. • Larger Size The next larger size to the selected paper size will be used to print in the same image size. • Nearest Size The nearest size to the selected paper size will be used for printing. If necessary, the image size can be reduced automatically. <p>Note <i>The Nearest Size option has effect on PS print mode only.</i></p> <p>Note <i>If instruction has been sent from the computer, it will have priority over the one from the printer.</i></p>

5.3.2 Setting a common menu

The procedure to set a common menu (System Settings, Network/Port, Allocate Memory, Initialize/Delete Data, Printer Settings) which generally has four levels (common menu > menu item > item > candidate value) is as follows:



5.4 Outputting Reports/Lists

This section describes the types of reports/lists and the way to print them.

5.4.1 Types of reports/lists

Besides data sent from the computer, this printer is also equipped to print the following reports/lists:

- PCL Settings List
- Printer Settings List
- Error History Report
- Job History Report
- Printer Meter Report
- PCL Fonts List

The following report/list is available only when the Printer HDD Kit has been installed:

- Stored Documents List

The following reports/lists are available only when the PostScript Kit has been installed:

- PostScript Fonts List
- PostScript Logical Printer List

●●● PCL Settings List

About PCL Settings List

Prints information on the PCL settings on the printer.

Print result

The following items will be included:

- Paper Tray
- Output Size
- Paper Size (Bypass Tray)
- Output Destination
- Orientation
- 2 Sided Print
- Font
- Symbol Set
- Font Size
- Font Pitch
- Form Lines
- Number of Sets
- Image Enhancement
- Hexdump
- Draft Mode

A print result is shown on the next page.

Document Centre 285

PCL Settings List

Date/Time : 2001/08/15 20:46

PCL Settings

Paper Tray	Bypass Tray
Output Size	A4
Paper Size (Bypass Tray)	A4
Output Destination	Finisher Tray
Orientation	Portrait
2 Sided Print	Off
Font	Courier
Symbol Set	Roman 8
Font Size	12.00
Font Pitch	10.00
Form Lines	64
Number of Sets	1
Image Enhancement	On
HexDump	Off
Draft Mode	Off

Sys Ver 0.0.8
PS Ver 0.0.8

●●● **Printer Settings List**

About Printer Settings List

Prints information in the system menu.

Print result

The following items will be included:

- System Settings
- Printer Settings
- Communcation Settings

A print result is shown on the next page.

Document Centre 285

Printer Settings List

Date/Time : 2001/08/15 20:48

Page : 1

System Settings

Machine Information
Product Name Document Centre 285

ROM
Standard ROM Ver 0.0.8
PostScript® ROM Ver 0.0.8

Options
Hard Disk
Total Size 8192.00MB
User Area 2048.00MB
Mailbox 2048.00MB
Bypass Tray
Side Output Tray
Offset Catch Tray
Duplex Module
PostScript®

Maintenance
Job History Report Auto Print Off
2 Sided Report 1 Sided
Fault Tone Off
Auto Cancel Pause Off
Print Area Normal

Printer Settings

General
No. of Prints 9877 pages
Page Description Language (PDL) PCL 6/5e Ver 4.1
PostScript® 3™ Ver 3011.106
Fonts 81 PCL fonts
136 PostScript European fonts

Memory
Total Size 96.00MB
Print Page Buffer 50.63MB
PostScript® Memory 8.00MB
PCL Memory 5.00MB
Receive Buffer Size
Parallel 256 KB
LPD Off: 256KB
SMB Off: 256KB

Paper Tray Attributes
Paper Size/Orientation
Tray 1 A4, LEF
Tray 2 8.5x11", SEF
Tray 3 8.5x14", SEF
Tray 4 A3, SEF

Output Settings
Substitute Tray Display Message

Communication Settings

Ethernet Settings

Connection Type Auto (10BASE-T/100BASE-TX)
MAC Address 08:00:37:02:FC:8F

TCP/IP
Get IP Address DHCP
IP Address 192.168.56.149
Subnet Mask 255.255.255.0
Gateway Address 192.168.56.99
Status Ready

WINS Server
Get DHCP Address Off
Primary Server IP Address 0.0.0.0
Secondary Server IP Address 0.0.0.0

DNS
Get DHCP Address Off
Domain Name ""

SNMP
Port Status Enabled
Transport Protocol UDP

CentreWare Internet Services
Port Status Enabled

Parallel
Port Status Enabled
Print Mode Auto
PIL On
Adobe Communication Protocol Standard
Auto Eject Time 240 seconds
Bi-directional Communication Enabled

USB
Port Status Disabled

NetWare
Port Status Disabled

LPD
Port Status Enabled
Print Mode Auto
PIL On
TBCCP Filter Enabled
IP Filter Off
Connection Time-Out 16 seconds
Port Number 515

SMB
Port Status Enabled
Print Mode Auto
PIL On
Transport Protocol TCP/IP, NetBEUI
TBCCP Filter Disabled
Workgroup "WORKGROUP"
Host Name "FX-02FC8F"
Auto Driver Download Enabled

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Adobe® PostScript® 3™

Sys Ver 0.0.8
PS Ver 0.0.8

●●● **Error History Report**

About Error History Report

Prints information on the error history of the printer.

Print result

The following items will be included:

- Date
- Time
- Error Code
- Error Type

A print result is shown on the next page.

Document Centre 285

Error History Report

Date/Time: 2001/08/15 20:58

Date	Time	Error Code	Error Type
2001/08/10	08:47:32	008-104	Tray1 Pre Miss Feed Jam
2001/08/10	08:47:32	008-104	Tray1 Pre Miss Feed Jam
2001/08/11	03:59:51	008-104	Tray1 Pre Miss Feed Jam
2001/08/11	03:59:51	008-104	Tray1 Pre Miss Feed Jam
2001/08/12	04:04:53	008-104	Tray1 Pre Miss Feed Jam
2001/08/12	04:04:53	008-104	Tray1 Pre Miss Feed Jam

Sys Ver 0.0.8
PS Ver 0.0.8

●●● **Job History Report**

About Job History Report

Prints information on the job history.

Print result

The following items will be included:

- Date
- Time
- Input Data
- Output Destination
- Job Info
- Page Info
- Pages
- Sheets
- Job Status

A print result is shown on the next page.

Document Centre 285

Job History Report

Date	Time	Input Data	Output Destination	Job Info	Page Info	Pages	Sheets	Job Status
2001/08/14	01:45:17	Parallel	Output Tray	PCL		0	0	Completed
2001/08/14	01:45:32	Report/List	Output Tray	1 Sided	A4	2	2	Completed
2001/08/14	02:13:03	Parallel	Output Tray	PCL		0	0	Completed
2001/08/14	02:13:36	Parallel	Output Tray	1 Sided:PCL	A4	1	1	Completed
2001/08/14	02:14:01	Parallel	Output Tray	1 Sided:PCL	A4	1	1	Completed
2001/08/14	02:15:03	Parallel	Output Tray	1 Sided:PCL	A4	1	1	Completed
2001/08/14	02:15:48	Report/List	Output Tray	1 Sided	A4	2	2	Completed
2001/08/14	02:16:11	Report/List	Output Tray	1 Sided	A4	2	2	Completed
2001/08/14	04:51:46	Report/List	Output Tray	1 Sided	A4	2	2	Completed
2001/08/14	04:55:45	PS Initialize	Output Tray		A4	2	2	Completed
2001/08/14	04:56:24	LPD:ewin@98lec:hoistsenyi	HD-Output Tray	1 Sided:PostScript	8.5x11"	1	1	Completed
2001/08/14	05:03:11	LPD:ewin@98lec:hoistsenyi	Output Tray	1 Sided:PostScript	8.5x11"	3	3	Completed
2001/08/15	05:04:39	LPD:ewin@98lec:hoistsenyi	Output Tray	1 Sided:PostScript	8.5x11"	3	6	Completed
2001/08/15	05:06:29	LPD:ewin@98lec:hoistsenyi	Output Tray	1 Sided:PostScript	8.5x11"	6	12	Completed
2001/08/15	05:11:17	LPD:ewin@98lec:hoistsenyi	Output Tray	1 Sided:PostScript	8.5x11"	6	12	Completed
2001/08/15	05:12:19	LPD:ewin@98lec:hoistsenyi	Output Tray	1 Sided:PostScript	8.5x11"	6	12	Completed

Date/Time : 2001/08/15 20:50

Page : 1

●●● **Print Meter Report**

About Print Meter Report

Prints information on the usage of the printer by users.

Print result

The following items will be included:

- Job Owner
- Pages
- Sheets

A print result is shown on the next page.

Document Centre 285

Print Meter Report

Date of Initialisation : 2001/06/10 08:45

Date of Printing : 2001/08/15 08:30
Page : 1 (Last Page)

Job Owner	Pages	Sheets
UnknownUser\CHO_LAPTOP	3	3
YuJin\EWIN2KYU	47	47
administrator\EW98CHO	5	5
hohsienyi\EWIN98ELE	25	46
hohsienyi\JWINMEH	4	4
xsscstesting\EW98CHO	31	34
yecong\SCWIN981YE98	5	5
UnknownUser	73	73
Report/List	32	32
Total	225	249

Note: Pages refer to the number of sides printed while Sheets refer to the number of sheets of paper used.
Example: For a 2-page document with 2-sided printing, the number of pages and number of sheets will be counted as 2 and 1 respectively.

●●● **PCL Fonts List**

About PCL Fonts List

Prints a list of PCL fonts that can be used by the printer.

Print result

The following items will be included:

- Fonts applicable to PCL
- Example

A print result is shown on the next page.

Document Centre 285

PCL Fonts List

Date/Time : 2001/08/14 15:45
Page : 1

Fonts applicable to PCL	Example
European	ABCDEFGHIJKabcdefghijk0123456789
CG Times	ABCDEFGHIJKabcdefghijk0123456789
CG Times It	ABCDEFGHIJKabcdefghijk0123456789
CG Times Bd	ABCDEFGHIJKabcdefghijk0123456789
CG Times BdIt	ABCDEFGHIJKabcdefghijk0123456789
Univers Md	ABCDEFGHIJKabcdefghijk0123456789
Univers MdIt	ABCDEFGHIJKabcdefghijk0123456789
Univers Bd	ABCDEFGHIJKabcdefghijk0123456789
Univers BdIt	ABCDEFGHIJKabcdefghijk0123456789
Univers MdCd	ABCDEFGHIJKabcdefghijk0123456789
Univers MdCdIt	ABCDEFGHIJKabcdefghijk0123456789
Univers BdCd	ABCDEFGHIJKabcdefghijk0123456789
Univers BdCdIt	ABCDEFGHIJKabcdefghijk0123456789
AntiqueOlv	ABCDEFGHIJKabcdefghijk0123456789
AntiqueOlv It	ABCDEFGHIJKabcdefghijk0123456789
AntiqueOlv Bd	ABCDEFGHIJKabcdefghijk0123456789
CG Omega	ABCDEFGHIJKabcdefghijk0123456789
CG Omega It	ABCDEFGHIJKabcdefghijk0123456789
CG Omega Bd	ABCDEFGHIJKabcdefghijk0123456789
CG Omega BdIt	ABCDEFGHIJKabcdefghijk0123456789
GaramondAntiqua	ABCDEFGHIJKabcdefghijk0123456789
Garamond Krsv	ABCDEFGHIJKabcdefghijk0123456789
Garamond Hlb	ABCDEFGHIJKabcdefghijk0123456789
GaramondKrsvHlb	ABCDEFGHIJKabcdefghijk0123456789
Courier	ABCDEFGHIJKabcdefghijk0123456789
Courier It	ABCDEFGHIJKabcdefghijk0123456789
Courier Bd	ABCDEFGHIJKabcdefghijk0123456789
Courier BdIt	ABCDEFGHIJKabcdefghijk0123456789
LetterGothic	ABCDEFGHIJKabcdefghijk0123456789
LetterGothic It	ABCDEFGHIJKabcdefghijk0123456789
LetterGothic Bd	ABCDEFGHIJKabcdefghijk0123456789
Albertus Md	ABCDEFGHIJKabcdefghijk0123456789
Albertus XBd	ABCDEFGHIJKabcdefghijk0123456789
Clarendon Cd	ABCDEFGHIJKabcdefghijk0123456789
Coronet	<i>ABCDEFGHIJKabcdefghijk0123456789</i>
Marigold	ABCDEFGHIJKabcdefghijk0123456789
Arial	ABCDEFGHIJKabcdefghijk0123456789
Arial It	ABCDEFGHIJKabcdefghijk0123456789
Arial Bd	ABCDEFGHIJKabcdefghijk0123456789
Arial BdIt	ABCDEFGHIJKabcdefghijk0123456789
Times New	ABCDEFGHIJKabcdefghijk0123456789
Times New It	ABCDEFGHIJKabcdefghijk0123456789
Times New Bd	ABCDEFGHIJKabcdefghijk0123456789
Times New BdIt	ABCDEFGHIJKabcdefghijk0123456789
Symbol	ABXΔEΦΓΗΘΚαβγδεφγηηκ0123456789

●●● Stored Documents List

About Stored Documents List

Prints information on the mailbox size, Secure Print and Sample Print jobs.

Print result

The following items will be included:

Mailbox Size:

- Size Used
- Free Space

Secure Print:

- Doc. No.
- User ID
- Document Name
- Document Size
- Stored Date
- Pages

Sample Print:

- Doc. No.
- User ID
- Document Name
- Document Size
- Stored Date
- Pages

A print result is shown on the next page.

Document Centre 285

Stored Documents List

Date/Time : 2001/08/14 15:48
Page : 1(Last Page)

Mailbox Size

Size Used 1.3MB
Free Space 2038.7MB

Secure Print

Doc. No.	User ID	Document Name	Document Size	Stored Date	Pages
No. 1	singapore	gh03_A4L.xls	A4	2023/11/23 06:17	28

Sample Print

Doc. No.	User ID	Document Name	Document Size	Stored Date	Pages
No. 1	123	Microsoft Word - WWD001e	8.5x11"	2023/11/21 04:55	1

●●● **PostScript Fonts List**

About PostScript Fonts List

Prints a list of PostScript fonts that can be used by the printer.

Print result

The following items will be included:

- Fonts
- Example

A print result is shown on the next page.

Document Centre 285

PostScript® Fonts List

Fonts	Example
European	
Albertus®	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Albertus® Italic	<i>ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?</i>
Albertus® Light	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Antique Olive® Roman	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Antique Olive® Italic	<i>ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?</i>
Antique Olive® Bold	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Antique Olive® Compact	ABCDEFGHIJKabcdefghijk0123456789
Apple® Chancery™	<i>ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?</i>
Arial™	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Arial™ Italic	<i>ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?</i>
Arial™ Bold	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Arial™ Bold Italic	<i>ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?</i>
ITC Avant Garde Gothic® Book	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
ITC Avant Garde Gothic® Book Oblique	<i>ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?</i>
ITC Avant Garde Gothic® Demi	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
ITC Avant Garde Gothic® Demi Oblique	<i>ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?</i>
Bodoni Roman	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Bodoni Italic	<i>ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?</i>
Bodoni Bold	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Bodoni Bold Italic	<i>ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?</i>
Bodoni Poster	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Bodoni Poster Compressed	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
ITC Bookman® Light	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
ITC Bookman® Light Italic	<i>ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?</i>
ITC Bookman® Demi	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
ITC Bookman® Demi Italic	<i>ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?</i>
Carta™	*!@#%&^*+? ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Chicago™	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Clarendon® Roman	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Clarendon® Bold	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Clarendon® Light	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Cooper Black	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Cooper Black Italic	<i>ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?</i>
Copperplate Gothic 32BC	ABCDEFGHIJKABCDEFGHIJK0123456789!@#%&^*+?
Copperplate Gothic 33BC	ABCDEFGHIJKABCDEFGHIJK0123456789!@#%&^*+?
Coronet™	<i>ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?</i>
Courier	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Courier Oblique	<i>ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?</i>
Courier Bold	ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?
Courier Bold Oblique	<i>ABCDEFGHIJKabcdefghijk0123456789!@#%&^*+?</i>

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●●● PostScript Logical Printer List

About PostScript Logical Printer List

Prints a list of PostScript logical printers.

Print result

The following items will be included:

- Printer Number
- Format
- Option
- Print Control

A print result is shown on the next page.



Document Centre 285

PostScript® Logical Printer List

Date/Time : 2001/08/14 15:52
Page : 1

Printer Number	No. 1	No. 2	No. 3	No. 4	No. 5
Format	No. 1	No. 2	No. 3	No. 4	No. 5
Output Size	Not Selected	Not Selected	Not Selected	Not Selected	Not Selected
Paper Tray	Not Selected	Not Selected	Not Selected	Not Selected	Not Selected
Paper Type	Not Selected	Not Selected	Not Selected	Not Selected	Not Selected
Option					
2 Sided Print	Not Selected	Not Selected	Not Selected	Not Selected	Not Selected
Output Destination	Not Selected	Not Selected	Not Selected	Not Selected	Not Selected
Stapling	Not Selected	Not Selected	Not Selected	Not Selected	Not Selected
Print Control					
Job Offset	Not Selected	Not Selected	Not Selected	Not Selected	Not Selected
Bypass Tray - Wait User	Not Selected	Not Selected	Not Selected	Not Selected	Not Selected
Collated	Not Selected	Not Selected	Not Selected	Not Selected	Not Selected
Screen Type	Not Selected	Not Selected	Not Selected	Not Selected	Not Selected
Image Enhancement	Not Selected	Not Selected	Not Selected	Not Selected	Not Selected
Print Quantity Setup	Not Selected	Not Selected	Not Selected	Not Selected	Not Selected
No. of Sets					

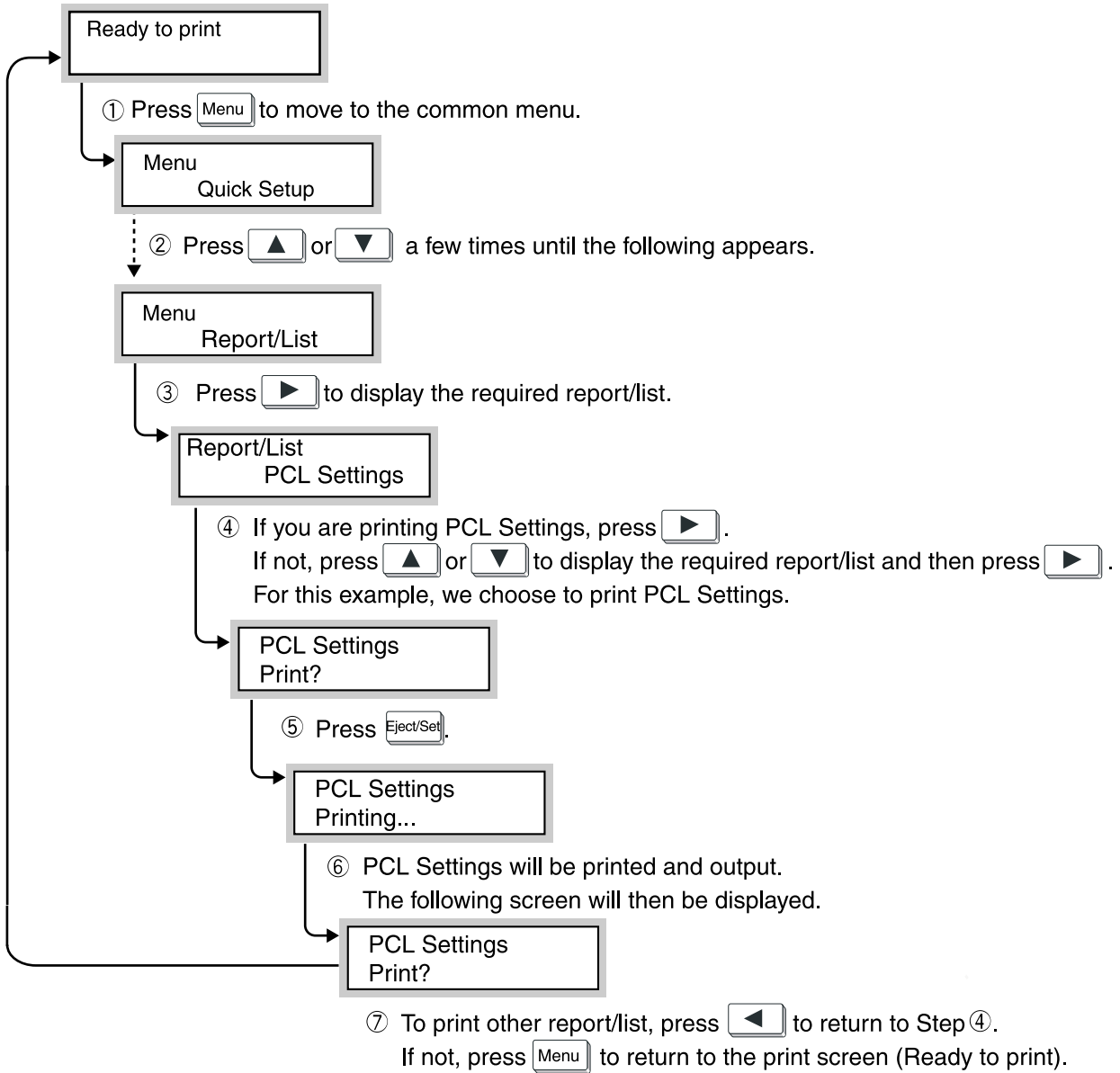
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PS Ver 0.08
PS Ver 0.08

5.4.2 Printing reports/lists

The following procedure shows how to print the reports/list:



5.5

CentreWare Internet Services

CentreWare Internet Services is a software that enables the user to display the printer/job status or change the printer settings via a web browser when the printer has been configured for the TCP/IP environment.

Using the Properties dialog box of CentreWare Internet Services, you can define the settings on the printer control panel, like the items of system settings or the various network port settings.

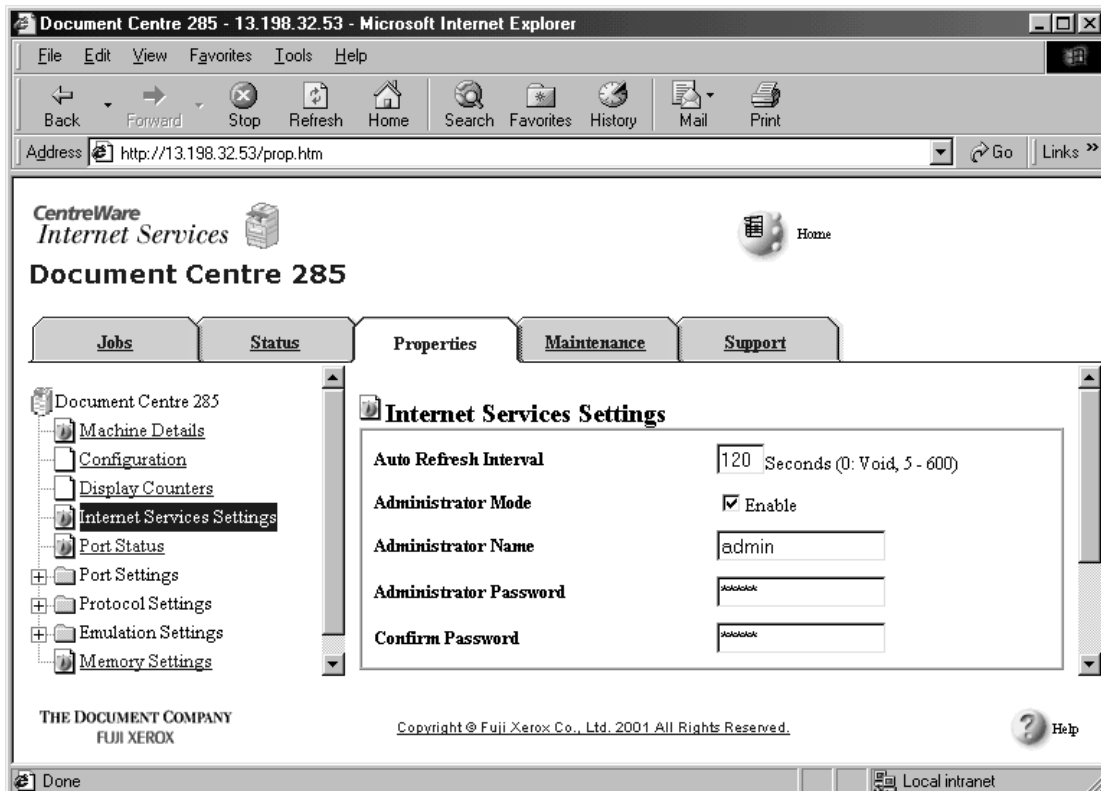
See

Depending on the items, some settings become effective only after rebooting (i.e. after switching on/off the printer, or after defining the system settings using the printer control panel).

5.5.1 Structure of the CentreWare Internet Services screen

The CentreWare Internet Services screen consists of four parts: a panel each at the top and bottom parts of the window (top panel, bottom panel), as well as two frames on the left and right at the middle part of the window (left frame, right frame).

The contents of each part change according to the features used (Job, Status, Properties, Maintenance, or Support).



●●● Top panel

The top panel is at the top of the window. A logo mark and the printer name are displayed on the top page (default status) as well as on every category page. In addition, you will find tabs to link to the top page and to move to each category on every category page.

●●● Bottom panel

The bottom panel is at the bottom of the window. It displays links to Customer Support Home Page, copyright screen, and the Help file. The contents in this panel remains unchanged regardless of which page is displayed.

●●● Right and left frame

The right and left frames are in the middle of the window. The contents in these frames will change according to the items selected in the category.

5.5.2 System environment

To use CentreWare Internet Services, you will need to activate the network environment using TCP/IP protocol as well as to set the Internet service to Enable (factory setting: Enable) at the printer.

5.5.3 Target computers and browsers

●●● Target computers

- Microsoft Windows 95 OS
- Microsoft Windows 98 OS
- Microsoft Windows Me OS
- Microsoft Windows NT Server 4.0
- Microsoft Windows NT Workstation 4.0
- Microsoft Windows 2000 Server
- Microsoft Windows 2000 Professional
- Macintosh OS 8.0 onwards

●●● Browsers

- Netscape Communicator (version 4.51 onwards for Windows/version 4.5 onwards for Macintosh)
- Internet Explorer (version 4.01 onwards for Windows/version 5.0 onwards for Macintosh)

5.5.4 Configuring browser

●●● For Netscape Communicator

Procedure

- 1 From the Edit menu, select **Preferences**.
- 2 From the Category tree, click **Advanced**.
- 3 If the Enable Java check box is not selected, select it.
- 4 Click the "+" sign on the left of **Advanced**.
- 5 Click **Cache** under **Advanced**.
- 6 Select **Once per session** or **Every time** for **Document in cache is compared to document on network**.
- 7 Click **OK**. The dialog box is closed.

●●● For Internet Explorer

Procedure

- 1 Select **Internet Options** from the Tools menu.
- 2 Click **Settings** for **Temporary Internet files** on the General tab.
- 3 In **Check for newer versions of stored pages**, select either **Every visit to the page** or **Every time you start Internet Explorer**, and then click **OK**.
- 4 Click **OK** on the Internet Options dialog box.

5.5.5 Checking proxy server and port number

●●● Proxy server setting

When using CentreWare Internet Services, it is recommended that you do not connect to a proxy server but make direct connections.

Note

When you define connection to be made to a proxy server, it might take a long time to set the IP address at the browser or the screen might not be displayed. When this happens, change the setting to a direct connection at the browser. For details on how to define these settings, refer to the manuals of the browser that you are using.

●●● Port number setting

The factory setting of the port number of the CentreWare Internet Services is 80. The port number can be changed from the Properties screen. The port numbers that can be set are 80, 8000 - 9999.

After the port number has been changed, it is necessary to specify the number after ":" of the address when connecting from the browser.

For example, for port number, "8080", enter the number to the internet or IP address as follows:

http://(internet address):8080

or

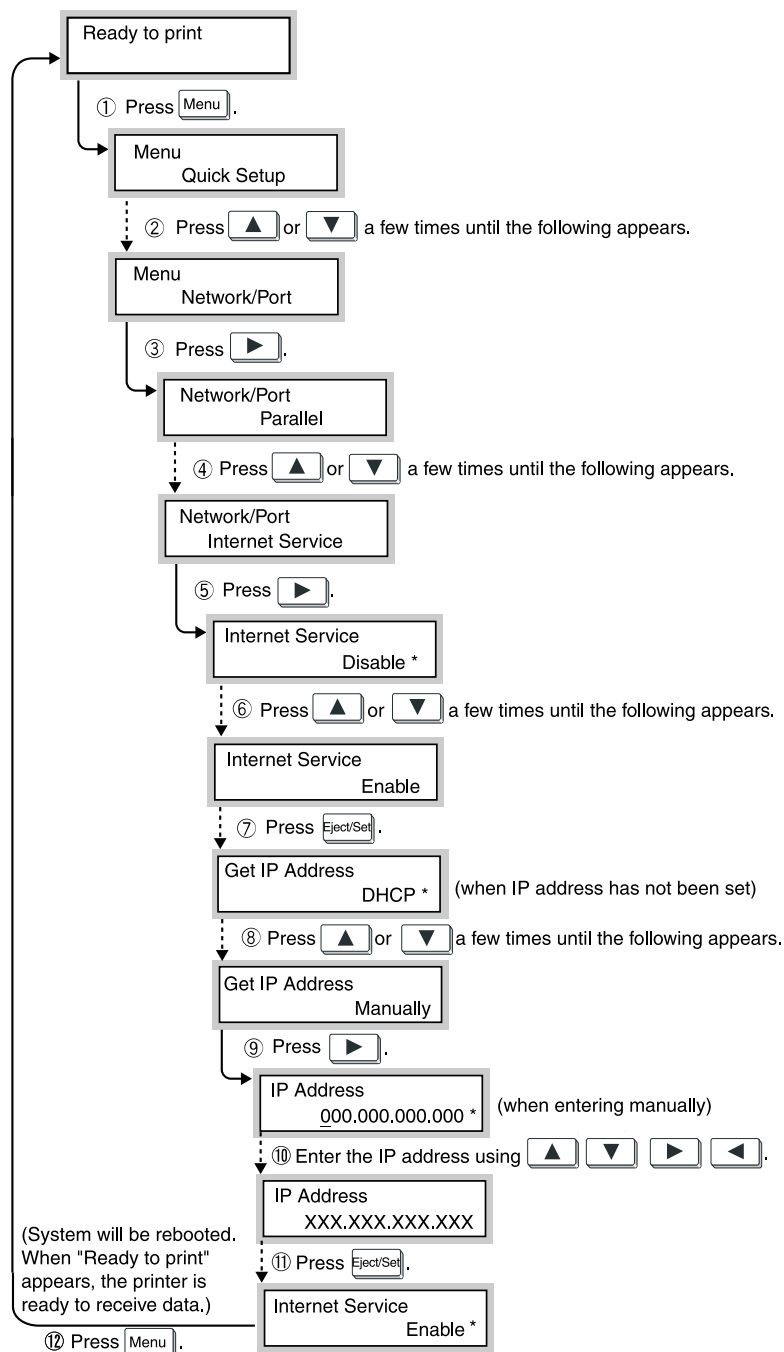
http://(IP address):8080.

5.5.6 Configuring the printer

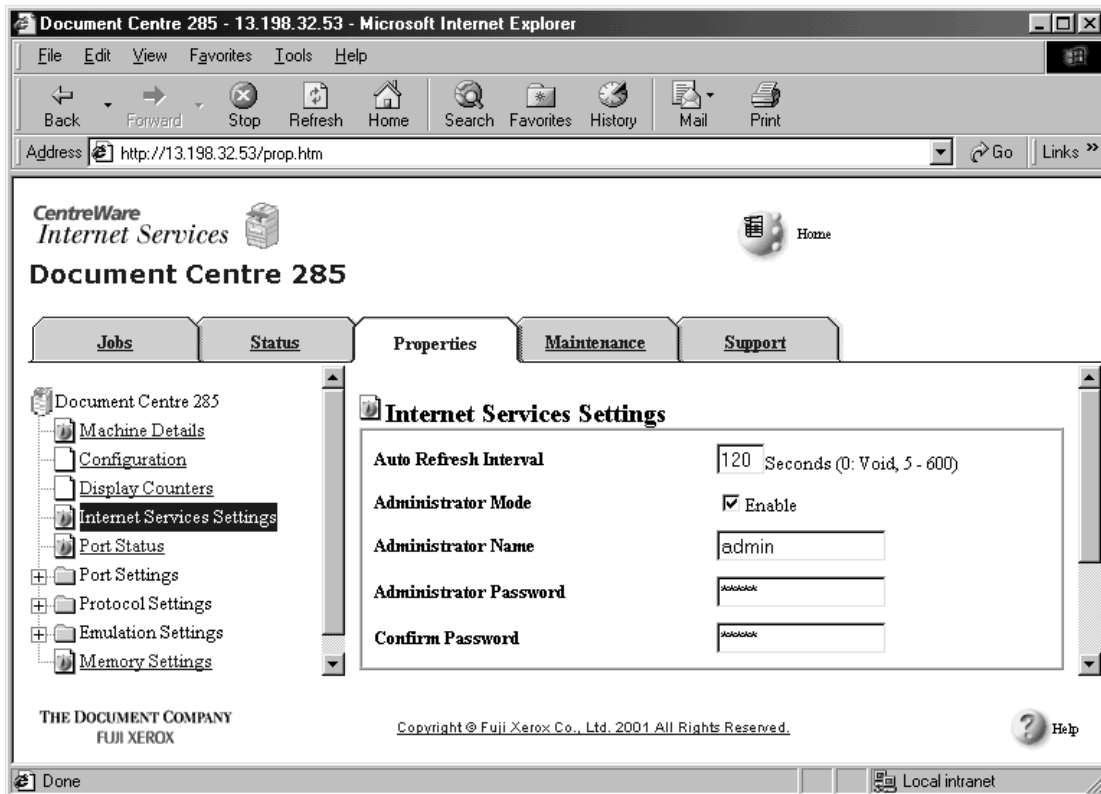
Follow the process below to activate the CentreWare Internet Services at the printer control panel if it is not set to Enable.

LOOK

You will have to set the IP address after the CentreWare Internet Services has been activated if it is not set. Follow the below process to set it.



The screen of the CentreWare Internet Services is displayed.



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6

Precautions and Limitations

6.1	In General	158
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6.1 In General



This section explains the precautions and limitations of using this printer in general.

●●● When switching on/off power

- After you have switched off the power, wait at least five seconds before switching it on again.
- After the message, "Ready to print" is displayed, wait at least five seconds before switching power off.

Besides the above occasions, it is possible to access the printer hard disk. Note that when you are accessing the printer hard disk and the power is switched off, the hard disk may not be used again.

●●● When switching on power

When the display shows, "Printing" immediately after switching on the printer even no data have been sent, press  and  at the same time.

●●● When cancelling printing

When the printing is not allowed to end normally, such as by cancelling printing, the command information sent from the computer will not be reflected on the printer control panel.

●●● When installing the Printer HDD Kit

- When installing the Printer HDD Kit, you can specify a hard disk as a storing location for print data from LPD, SMB, IPP.
- Data erased by the initialization of the hard disk include added fonts and SMB folder. Secure Print/Sample Print documents and the respective logs will not be erased.
- The number of files registered in the hard disk that can be called up at one time changes according to the additional memory capacity, which depends on whether the additional SDRAM module (optional kit) is installed.
- When the Printer HDD Kit and the additional SDRAM module are installed with a large number of files registered in the hard disk, the printer might not be able to start up if the additional SDRAM module is removed.
When this happens, either switch off the power and remove the Printer HDD Kit or install the additional SDRAM module.

●●● When the print result is different from the setting

Due to insufficient capacity of the print page buffer, the following situations where the print results differ from the setting might occur. When this happens, it is recommended to increase the memory.

- Set at two-sided printing but printed on one side only.
- Job is stopped (when a page processing cannot be carried on in the print page buffer, the job including that page will be stopped).

●●● **Using optional products**

- The Printer HDD Kit and additional SDRAM module have to be installed in order to use the sorter (electric sorting feature) and Secure Print/Sample Print.
- The optional PostScript Kit has to be installed in order to use the printer for supporting PostScript.
- The additional SDRAM module has to be installed with the Printer HDD Kit.
- The additional SDRAM module has to be installed when activating multiple network protocols at the same time.



6.2 On Using TCP/IP

Be aware of the following precautions and limitations when using the printer with the TCP/IP protocol.

6.2.1 During setup

●●● Setting up at the printer

- Be very careful in setting IP addresses which are controlled as an entire system. Consult your network administrator before defining any IP address.
- Depending on the network environment used, it may be necessary to set up the subnet mask and gateway address. Consult your network administrator to set up the necessary items.
- If setting the port to Enable leads to insufficient memory, a message to that effect will be displayed on the control panel and the port status may be set to Disable automatically. When this happens, set the ports which are not in use to Disable, change the memory size, or install more memories.
- Specify the size for the receive buffer memory as required by the environment. If the size of the receive buffer memory is smaller than the file data to be received, the data may not be received.

●●● Setting up at the computer/workstation

- Be very careful in setting IP addresses which are controlled as an entire system. Consult your network administrator before defining any IP address.
- Before setting any network (such as the IP address) to a computer being used under Network Information Service (NIS), consult the NIS administrator.

6.2.2 During switching power on/off

Take note of the following when switching off the power.

●●● When LPD Spool is set to Memory (spool mode)

All the print data spooled to the printer memory, including print data which is being output, will be deleted. When the printer is switched on again, the print data will not be found. However, if the printer is switched off immediately after the print data has been sent, the data may be stored in the computer. In this case, when it is switched on again, the stored print data will be printed first even if new print data has been specified.

●●● When LPD Spool is set to Hard Disk (spool mode)

All the spooled print data, including print data which is being printed, will be saved. When the printer is switched on again, the stored print data will be printed first even if new print data has been specified.

●●● When LPD Spool is set to Off (non-spool mode)

All the print data spooled to the printer receive buffer, including print data which is being output, will be deleted. When the printer is switched on again, the print data will not be found. However, if the power is switched off immediately after the print data has been sent, the data may be stored in the computer. In this case, when the power is switched on again, the stored print data will be printed first even if new print data has been specified.

6.2.3 During printing

Take note of the following when printing:

●●● When LPD Spool is set to Hard Disk or Memory (spool mode)

All the print data is larger than the hard disk or the remaining memory capacity at the point of receiving data, the data will not be received by the printer.

Note

Some client computers may re-send immediately when the print data has exceeded the receiving capacity. When this happens, the client computer appears as if it has crashed. To rectify this situation, the client computer must be stopped from sending print data.

●●● When LPD Spool is set to Off (non-spool mode)

The printer will process print data as soon as data is being received. If the printer has accepted a print request from a client computer, it will not receive another print request from another client computer.

●●● When the IP address or computer name is changed

When the IP address or computer name of a computer/workstation is changed, it may not be able to process enquiries or requests for deleting jobs from the printer correctly. Make sure the printer is free of all spooled data and then switch off/on the printer.

See

The function to stop/eject print data spooled to the printer spool can be set up from the control panel. For details on the set up method, refer to "3.4 Canceling Printing" and "3.5 Outputting".

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7

Troubleshooting

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7.1 When Problems Occur

Check the conditions of the printer again before treating it as a breakdown.

If the problem cannot be solved by the suggested treatment below, proceed to "7.2 When the Print Quality is Poor" and "7.3 Messages" to carry out the appropriate treatment.

⚠ WARNING





This printer uses precision parts and high voltage.

Never open any panels or covers that are secured with screws unless specifically instructed in this user guide.

There is a danger of electric shock as there are internal parts of high voltage. If you have to carry out any disassembling operation of panels and covers, make sure you follow the instructions in the relevant user guides.

⚠ WARNING

Never try to alter the printer configuration or modify any parts as it may cause fire or smoke.

Condition	Cause	Treatment
No power	Are the printer breaker switch and power switch turned on?	Turn on the printer breaker switch and power switch.
	Is the power cord securely connected?	Turn off the power switch and check that the power cord is plugged in properly. Then turn on the power switch.
	Is the power voltage suitable?	Check that the power source is 110 V (60 Hz), 220 - 240 V (50/60 Hz). Check that the power capacity matches the printer highest consumption power indicated in the User Guide (Copier).
Cannot print.	Is the Online indicator of the printer control panel off?	The printer is in the pause state or the menu setting state. Treat accordingly as follows: <ul style="list-style-type: none"> • "Pause" Press  to exit the pause state. • Others Press  to exit the menu setting state.  "1.3.2 Printer control panel"
	Is there any message being shown on the display?	Treat according to the message displayed.  "7.3 Messages"

Condition	Cause	Treatment
Cannot print. (con't...)	When the printer and the computer are connected by a parallel interface cable, the computer does not respond to bi-directional communication.	By default, the bi-directional communication setting of the printer is set to Enable. If the computer is not responding to bidirectional communication, printing cannot be done. In this case, turn the bi-directional communication setting to Disable from the printer control panel and then print again. See <i>"5.3 Common Menu Items"</i>
	Is the memory sufficient?	Increase the page buffer or install the additional RAM module to increase the memory. See <i>"2.8 Memory Allocation" for details on page buffer.</i> Note <i>If the memory is insufficient, the port status will become Disable and printer will reboot automatically.</i>
	Is the Poster feature being selected to output an image across multiple sheets of paper?	Depending on the paper size to be used and the image size to be output, you may not be able to carry out printing. When this happens, reduce either the paper size or the image size, and then print again.
Printing has been specified but the Processing indicator does not light up.	Is the interface cable securely connected?	Turn the switch off and check the interface cable connection.
	If the interface card is used, has it been correctly set?	Turn the printer power switch off and check the installation status of the interface card.
	Is the interface card activated?	Check the port status of the interface. See <i>"5.3 Common Menu Items"</i>
	Is the operating environment of the host device correctly set?	Check the operating environment of the host device such as the printer driver.
Printing specification has been sent to the bypass tray but no printing is done.	Are the specified paper size being used?	Insert in the correct size paper and send printing again. See <i>User Guide (Copier)</i>

7.1 When Problems Occur

Condition	Cause	Treatment
No printing is sent but display shows "Printing".	Is the power of the computer turned on after the printer has been on?	Just wait for five minutes or press Mode and Menu together to stop printing. Note <i>When switching on the power of the printer, check whether the host device is switched on.</i>
Poor print quality.	There might be an image error.	Refer to "7.2 When the Print Quality is Poor" and treat accordingly.
The correct characters are not printed (printing garbage).	The printer is printing with non-standard built-in fonts.	1. Check the printer-resident fonts by the "PCL Font List" and the font indication of the driver. 2. Try to use the font downloaded from the driver.
The Processing indicator is on or blinking but no paper is output.	There is data remaining in the printer.	Stop printing or force the remaining data to be output. See <ul style="list-style-type: none"> • "3.4 Canceling Printing" • "3.5 Outputting"
Paper tray is stuck.	During printing, has the cover been opened or the power switched off?	Switch off the power without forcefully moving the paper tray. After a few seconds, switch it on. Check that the printer is in the state to receive data and then push in/pull out paper tray.

Note

When printing has not been correctly processed, the information will be saved in Print History. When printing has not been processed, make use of the Print History feature to check the print processing condition. Print data that cannot be correctly processed might be discarded.

See

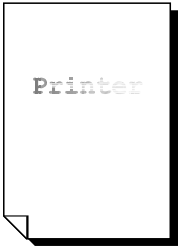

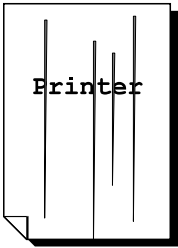
"5.4 Outputting Reports/Lists" for details on how to print the Print History.

7.2

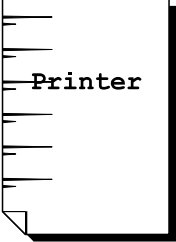
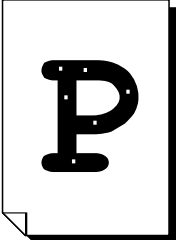


When the Print Quality is Poor

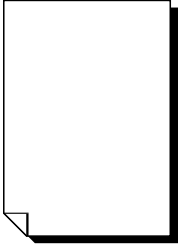

When the print quality is poor, carry out the necessary treatment according to the condition as close to those listed below as possible. When printing document with large amount of data, the resolution might decrease. Increasing the PCL memory data might prevent a decrease of resolution.

If the print quality does not improve after the treatment, contact our Customer Support Center.

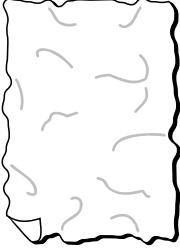

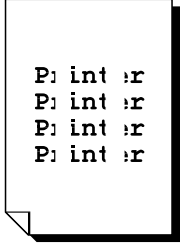
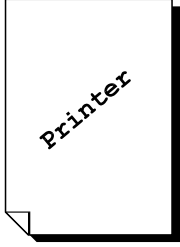
Condition	Cause	Treatment
 Printing is not clear (faded, not sharp).	The paper has excessive moisture.	Replace with new paper. See <i>User Guide (Copier)</i>
	The drum/toner cartridge is defective or damaged.	Replace with a new drum/toner cartridge. See <i>User Guide (Copier)</i>
	The toner in the drum/toner cartridge has been used up.	Replace with a new drum/toner cartridge. See <i>User Guide (Copier)</i>
 Black spots printed.	The paper used is not suitable.	Load the suitable paper. See <i>User Guide (Copier)</i>
	The drum/toner cartridge is defective or damaged.	Replace with a new drum/toner cartridge. See <i>User Guide (Copier)</i>
 Black stripes printed.	The drum/toner cartridge is defective or damaged.	Replace with a new drum/toner cartridge. See <i>User Guide (Copier)</i>

7.2 When the Print Quality is Poor

Condition	Cause	Treatment
Stains at equal intervals. 	The transportation route for the paper is stained.	Print a few pages.
	The drum/toner cartridge is defective or damaged.	Replace with a new drum/toner cartridge. See <i>User Guide (Copier)</i>
White spots in the printed black portion. 	The paper used is not suitable.	Load the suitable paper. See <i>User Guide (Copier)</i>
	The drum/toner cartridge is defective or damaged.	Replace with a new drum/toner cartridge. See <i>User Guide (Copier)</i>
Smudges when scrubbed with fingers. 	The paper has moisture.	Replace with new paper. See <i>User Guide (Copier)</i>
	The paper used is not suitable.	Replace with suitable paper. See <i>User Guide (Copier)</i>
	The front cover is not completely closed.	Close the front cover. Check that the two sides of the cover are locked.
Page is printed completely black. 	The drum/toner cartridge is defective or damaged.	Replace with a new drum/toner cartridge. See <i>User Guide (Copier)</i>
	May be due to high voltage problem.	Contact our Customer Support Center.

Condition	Cause	Treatment
Nothing is printed. 	The toner seal of the drum/toner cartridge is not pulled out.	Remove the seal from the drum/toner cartridge. <div style="border: 1px solid black; padding: 2px; display: inline-block;">See</div> <i>User Guide (Copier)</i>
	Multiple sheets of paper are fed at once (double feeding).	Fan the paper and load them again. <div style="border: 1px solid black; padding: 2px; display: inline-block;">See</div> <i>User Guide (Copier)</i>
	The toner in the drum/toner cartridge has been used up.	Replace with a new drum/toner cartridge. <div style="border: 1px solid black; padding: 2px; display: inline-block;">See</div> <i>User Guide (Copier)</i>
	The drum/toner cartridge is defective or damaged.	Replace with a new drum/toner cartridge. <div style="border: 1px solid black; padding: 2px; display: inline-block;">See</div> <i>User Guide (Copier)</i>
	May be due to high voltage problem.	Contact our Customer Support Center.
Character void 	The paper has moisture.	Replace with new paper. <div style="border: 1px solid black; padding: 2px; display: inline-block;">See</div> <i>User Guide (Copier)</i>
	The paper used is not suitable.	Replace with suitable paper. <div style="border: 1px solid black; padding: 2px; display: inline-block;">See</div> <i>User Guide (Copier)</i>
	The toner seal is not pulled out completely.	Replace with a new drum/toner cartridge. <div style="border: 1px solid black; padding: 2px; display: inline-block;">See</div> <i>User Guide (Copier)</i>

7.2 When the Print Quality is Poor

Condition	Cause	Treatment
Paper has wrinkles. Printing smeared.  	The paper used is not suitable.	Replace with suitable paper. See <i>User Guide (Copier)</i>
	The paper has curled corners.	Replace with suitable paper. See <i>User Guide (Copier)</i>
	The paper has moisture.	Replace with new paper. See <i>User Guide (Copier)</i>
Vertical white strips. 	The drum/toner cartridge is not correctly set.	Adjust and set it correctly. See <i>User Guide (Copier)</i>
	The seal is not completely pulled out.	Replace with a new drum/toner cartridge. See <i>User Guide (Copier)</i>
	The drum/toner cartridge is defective or damaged.	Replace with a new drum/toner cartridge. See <i>User Guide (Copier)</i>
	Toner in the drum/toner cartridge has been used up.	Replace with a new drum/toner cartridge. See <i>User Guide (Copier)</i>
Printing is slanted. 	The guide clips of the paper tray are not set in the correct positions.	Adjust and set the side guide and end guide correctly. See <i>User Guide (Copier)</i>

7.3 Messages

This section explains about the different messages and error codes that appear on the printer control panel display.

7.3.1 List of messages









There are two types of messages: machine status (indicated by "Status") and errors (by "Cause/Treatment"):

LOOK

The print data remaining in the printer and information stored in the printer memory are not secured when the error message is being displayed.

Message	Cause/Treatment
Ready to print	Status: The printer is ready to receive data from the computer.
Please wait...	Status: <ul style="list-style-type: none"> • The printer system is being diagnosed or initialized. This message is displayed when the power is on or when the system is reset. After a while, it will change to "Ready to print". • The printer is warming up to print the data remaining in the machine.
Please wait ... XXXX	Status: The printer is warming up to print the data remaining in the machine.
XXXX Printing... Tray *	Status: Printing report/list.
Printing... XXXX	Status: Processing printing.
Printing... XXXX Tray *	Status: Using Tray * for printing. Do not pull our the paper tray in use.
Ejecting... XXXX Tray *	Status: Processing printing.
Canceling... XXXX Tray *	Status: Canceling print data.
Data wait XXXX	Status: In the state of waiting for data.

7.3 Messages

Message	Cause/Treatment
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Storing image... XXXX HDD </div>	Status: Saving Secure Print job data.
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Printer paused </div>	Status: In the pause state after pressing  . To exit the pause state, press  again.
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Pausing... Data received </div>	Status: In the pause state after pressing  while printing. To exit the pause state, press  again.
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> All data Canceling... </div>	Status: Canceling all data remaining in the printer.
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> All data Ejecting... </div>	Status: Ejecting all data remaining in the printer.
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Initializing PostScript... </div>	Status: Initializing the optional PostScript ROM.
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Replace Drum/ Toner Cartridge </div>	Cause: The drum/toner cartridge has to be replaced now or soon. Treatment: If the light of the Error indicator on the printer control panel is on, it is time to replace the drum/toner cartridge. If the light is off, get ready to replace it soon.  <i>"User Guide (Copier)"</i>
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Push in tray * </div>	Cause: Tray * is not pushed in properly. Treatment: Push in tray * right to the end.  <i>"User Guide (Copier)"</i>
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Add paper tray * xxxx </div>	Cause: Tray * has run out of paper of xxxx-size/orientation. Treatment: Replace with paper of xxxx-size/orientation.  <i>"User Guide (Copier)"</i>
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Check Tray * xxxx </div>	Cause: Tray * is not loaded with the correct paper. Treatment: Replace with paper of xxxx-size/orientation.  <i>"User Guide (Copier)"</i>

Message	Cause/Treatment
Load Tray * xxxx	<p>Cause: Tray * has run out of paper of xxxx-size/ orientation.</p> <p>Treatment: Replace with paper of xxxx-size/orientation.</p> <p>See "User Guide (Copier)"</p>
Duplicate IP Address	<p>Cause: IP address is duplicated.</p> <p>Treatment: Change the IP address.</p> <p>See "2.5 "Setting IP Address"</p>
Unable to get IP Address	<p>Cause: Unable to get IP address from the DHCP server.</p> <p>Treatment: Set the IP address manually.</p> <p>See "2.5 Setting IP Address"</p>
Duplicate SMB host names	<p>Cause: There is an existing similar SMB host name.</p> <p>Treatment: Change the host name.</p> <p>See "2.7 Other Printer Settings"</p>
Ready to print (***-***)	<p>Cause: There is an error in the machine.</p> <p>Treatment: Switch off the machine, and switch it on again after the printer control panel display has been turned off. If the error code appears again, check the error code (*****) to treat it.</p> <p>See "7.3.2 Messages about error codes"</p>
Error resolved (***-***)	<p>Cause: There is an error in the machine, and printing cannot be done correctly.</p> <p>Treatment: Check the error code (*****) on the display to treat it.</p> <p>See "7.3.2 Messages about error codes"</p>
Please reboot printer (***)	<p>Cause: There is an error in the machine.</p> <p>Treatment: Switch off the machine, and switch it on again after the printer control panel display has been turned off. If the error code appears again, copy the error code (*****) displayed, and then switch off the machine. When the light of the printer control panel display is gone, unplug the machine, and contact our Customer Support Center.</p>

7.3.2 Messages about error codes

The following messages will appear when printing cannot not be completed properly due to an error or when there is a machine breakdown:



Error resolved
(***-***)



Ready to print
(***-***)


Treat the error by referring to the following table.

LOOK

When an error code is displayed, print data remaining in the machine or information stored in its memory may not be secure.

Error Code	Cause/Treatment
003-747	<p>Cause: Wrong combination of print parameters, like selecting custom paper size and setting Auto for Paper Source.</p> <p>Treatment: Check the print parameters. For the above instance, select Bypass Tray.</p>
012-281 012-282 012-283 012-284 012-261 012-262	<p>Cause: Breakdown of the stapler finisher.</p> <p>Treatment: Contact our Customer Support Center. You can use other paper tray besides the finisher.</p>
016-702	<p>Cause: PCL print data cannot be processed due to insufficient page buffer.</p> <p>Treatment: Carry out one of the following treatments:</p> <ul style="list-style-type: none"> • increase the page buffer • install more memory. <p> See "2.8 Memory Allocation".</p>
016-705	<p>Cause: Cannot save Secure Print documents as the Printer HDD Kit has not been installed.</p> <p>Treatment: The Printer HDD Kit has to be installed in order to use the Secure Print feature.</p> <p> See "3.7 Printing Secure Print and Sample Print Jobs".</p>

Error Code	Cause/Treatment
016-706	<p>Cause: The number of users of Secure Print/Sample Print has exceeded the limit.</p> <p>Treatment: Cancel some of the unnecessary documents stored in the machine, and print again.</p> <p> <i>"3.7 Printing Secure Print and Sample Print Jobs"</i></p>
016-707	<p>Cause: Cannot process Sample Print jobs as the Printer HDD Kit has not been installed or there is a hard disk error.</p> <p>Treatment: The Printer HDD Kit has to be installed in order to use the Sample Print feature.</p> <p> <i>"3.7 Printing Secure Print and Sample Print Jobs"</i></p>
016-708	<p>Cause: The number of pages for printing has exceeded 999.</p> <p>Treatment: Reduce the number of pages for printing, like printing one set at a time instead of multiple sets.</p>
016-719	<p>Cause: Insufficient memory for PCL.</p> <p>Treatment: Increase the number of PCL memory.</p>
016-720	<p>Cause: Detected PCL command error.</p> <p>Treatment: Send data again. If the same error code appears, check PCL data.</p>
016-721	<p>Cause: Error in print processing.</p> <p>Treatment: Send printing again. If the same error code appears, contact our Customer Support Center.</p>
016-726	<p>Cause: Printer language cannot be selected automatically although the Print Mode has been set to Auto.</p> <p>Treatment: Select the printer language using the printer control panel or command.</p>
016-731	<p>Cause: Cannot print as the TIFF data has been cut.</p> <p>Treatment: Print again.</p>
016-735	<p>Cause: Printed the Job Template List while it is being changed.</p> <p>Treatment: Wait awhile and print again.</p>
016-736	<p>Cause: Syntax error in Job Template List detected.</p> <p>Treatment: Select or recreate another Job Template List.</p>
016-737	<p>Cause: Error in reading data from pool server of Job Template List.</p> <p>Treatment: Check the access right of the directory where the Job Template List is being stored.</p>
016-739	<p>Cause: Cannot detect the selected pool server of the Job Template List.</p> <p>Treatment: Check the path name of the Job Template List pool server.</p>


Error Code	Cause/Treatment
016-740	<p>Cause: Cannot log in to the pool server of the Job Template List.</p> <p>Treatment: Check log-in information like user name and password.</p>
016-741	<p>Cause: Cannot connect to the pool server of the Job Template List.</p> <p>Treatment: Request for help from the network administrator, to check the network and server environments.</p>
016-742	<p>Cause: Cannot save to Job Template due to insufficient hard disk.</p> <p>Treatment: Increase the free space by deleting unnecessary data in the hard disk or initializing it.</p>
016-743	<p>Cause: Wrong setting for the Job Template pool server.</p> <p>Treatment: Check the setting of the Job Template pool server.</p>
016-744	<p>Cause: Cannot obtain the IP address of the Job Template pool server.</p> <p>Treatment: Check whether connection can be made to the DNS server. Or check if the domain name of the Job Template pool server is registered in the DNS.</p>
016-745	<p>Cause: Cannot obtain the IP address of the Job Template pool server.</p> <p>Treatment: Set the DNS address correctly. Or enter the IP address as the Job Template pool server address.</p>
016-746	<p>Cause: Wrong IP address set for this machine.</p> <p>Treatment: Check the DHCP environment. Or set a fixed IP address for this machine using the printer control panel.</p>
016-748	<p>Cause: Cannot print due to insufficient hard disk space.</p> <p>Treatment: Increase the free space by deleting unnecessary data in the hard disk.</p>
016-749	<p>Cause: PjL command syntax error detected.</p> <p>Treatment: Check the printer settings or correct the PjL command.</p>
016-760	<p>Cause: Error in PostScript data (optional) processing.</p> <p>Treatment: Do one of the following:</p> <ul style="list-style-type: none"> • increase the print page buffer • increase the memory of PostScript <p> <i>"2.8 Memory Allocation"</i></p>
016-762	<p>Cause: Uninstalled printer language selected.</p> <p>Treatment: Select the printer language using the printer control panel or command.</p>
016-764	<p>Cause: Cannot connect to the SMTP server.</p> <p>Treatment: Consult the mail system administrator.</p>

Error Code	Cause/Treatment
016-765	Cause: Cannot send mail as the SMTP server is full. Treatment: Consult the mail system administrator.
016-766	Cause: Error in the SMTP server. Treatment: Consult the mail system administrator.
016-767	Cause: Cannot send mail as the mail address is wrong. Treatment: Check the mail address and send again.
016-768	Cause: Cannot connect to the SMTP server as the mail address of this machine is not correct. Treatment: Check the mail address of this machine.
016-769	Cause: The SMTP server cannot respond to DSN. Treatment: Do not use DSN to send mail.
016-770	Cause: Cannot process the Job Template due to insufficient hard disk space. Treatment: Increase the hard disk space by deleting unnecessary data in the hard disk.
016-773	Cause: Wrong IP address set for this machine. Treatment: Check the DHCP environment. Or set a fixed IP address for this machine using the printer control panel.
016-775	Cause: Cannot process image replacement due to insufficient hard disk space. Treatment: Increase the hard disk space by deleting unnecessary data in the hard disk.
016-777	Cause: Hard disk error during image processing. Treatment: The hard disk might be spoilt. Replace with another one and try again.
016-787	Cause: Wrong server IP address set for the Job Template. Treatment: Check the server IP address set for the Job Template.
016-793	Cause: Insufficient hard disk space. Treatment: Increase the hard disk space by deleting unnecessary data in the hard disk.
016-799	Cause: Wrong combination of print parameters, like selecting custom paper size and setting Auto for Paper Source . Treatment: Check the print parameters. For the above instance, select Bypass Tray .
081-720 081-722	Cause: Internal machine error. Treatment: Switch off the power, wait for the display on the control panel to go off, and then switch on the power again.
081-721	Cause: Processing interrupted according to user's instruction. Treatment: --

7.4 Using TCP/IP

This section provides information on the possible causes, verifying methods and recommended actions pertaining to errors which may occur when the printer is being used with TCP/IP.

7.4.1 When using Windows 95, Windows 98, Windows Me

Cause		
The printer and the computer are connected to different networks.	Status Display	Unable to print (Network Error)
	Verification	Check with the network system administrator to verify that the network connecting the computer and that connecting the printer are linked by a router or a gateway.
	Action	Connect the printer directly to the network connecting the computer.
An error has occurred in the network between the computer and the printer. Connection cannot be established.	Status Display	Unable to print (Network Error)
	Verification	--
	Action	Ask the system administrator of the network to check the network for errors.
The IP address of the printer is entered wrongly.	Status Display	Unable to print (Network Error)
	Verification	From the printer window, select Properties from the Printer menu. Click the Details tab of the dialog box displayed. Then select Port Settings. Compare the IP address in the dialog box and the Printer Settings List.  <i>"5.4.1 Types of reports/lists"</i>
	Action	Enter the correct IP address set at the printer in the dialog box.
The printer is switched off after the print instruction has been sent from the computer. Or the print instruction is sent to the printer which is switched off.	Status Display	Unable to print (Network Error)
	Verification	Check whether the printer is switched on.
	Action	Switch on the printer.
Print instructions from multiple computers are sent to the printer at the same time.	Status Display	Unable to print (Network Error)
	Verification	--
	Action	-- (Printing will be reprocessed automatically.)

Cause		
Printing files cannot be spooled due to insufficient disk capacity of the computer.	Status Display	Unable to print (Spool Error)
	Verification	Double-click My Computer and right-click the disk installed with Windows 95/Windows 98/Windows Me (e.g. C drive). Select Properties from the menu displayed and then check the free space available.
	Action	After erasing unnecessary files to increase the free space available, select Pause Printing from the Document menu of the Printer window to enable printing to restart.

7.4.2 When using Windows NT 4.0

●●● When the printer is not printing

Cause	Verification	Action
Incorrect IP address	Ask the network administrator to check that the IP address is correct.	Set up the correct IP address for the printer.
If LPD spool is set to memory, the print data sent by the user in a single print instruction has exceeded the upper limit of the receiving capacity set up on the printer control panel.	Check the upper limit of the receiving capacity from the touch panel display and compare it with the print data which was sent in the single print instruction.	<ol style="list-style-type: none"> 1. If a single file of print data has exceeded the upper limit of the receiving capacity, split the file into smaller ones to keep them below the upper limit of the receiving capacity. 2. If multiple files have exceeded the upper limit of the receiving capacity, reduce the number of files which can be sent at one go.
An irrecoverable error has occurred during printing.	Check the display of "LPD Error" from the printer control panel.	Power off and on the printer.
The transport protocol is different from that of the client.	Check the selected transport protocol on the touch panel display.	Select the same transport protocol as that of the client.

●●● **Unable to obtain the desired print results**

Cause	Verification	Action
The specified print language and that of the print data are different.	Check the specified print language and that of the print data.	Specify the same print language as that of the print data.
If it is running in Windows, the printer driver for this printer has not been used (a printer driver from another company has been used).	Check that the printer driver which came with this printer has been selected.	Select the printer driver which came with this printer. If it does not appear on the selection list, install and select the printer driver. If a printer driver from another company is used, the printer may not print properly.

7.5

Using CentreWare Internet Services

Cause	Treatment
Cannot be connected to CentreWare Internet Services.	Is the printer working properly? Check if the power of the printer is switched on.
	Is CentreWare Internet Services activated? Print out the Printer Settings List to check.
	Is the internet address correctly entered? Check the internet address again. If cannot be connected, enter the IP address to connect again.
	Is the proxy server used? Depending on the proxy server, connections might not be made. Without using the proxy server, either change the browser setting or the address to which you want to connect to one without using the proxy server.
The "Please wait" message is displayed throughout.	Wait for awhile as instructed. If nothing happens, try clicking the Refresh button. And even then, if nothing happens, check if the printer is working properly.
The Refresh button is not working.	Are you using the target OS and browser?
Selecting the left frame menu does not change the right frame settings.	By referring to " ", check if the OS and browser you are using can be used.
The screen display is distorted.	Change the window size of the browser.
The latest information is not displayed.	Click the Refresh button.
The new settings are not reflected by clicking the Apply New Settings button.	Is the value entered correct? If the value entered is not within the correct range, it will be changed to a value within the correct range automatically.
Clicking the Apply New Settings button prompts messages like no data or the server has returned ineffective or unrecognizable response.	Is the password correct? The entry for Confirm Password is not similar to Password. Enter the correct password.
	Reboot the printer.
Even if the job you want to delete is checked, the selection is unchecked later.	Is the Auto Refresh set? Either set Auto Refresh Interval of Internet Services Settings on the Properties tab to Void or to a higher value.
The job cannot be deleted.	Wait for awhile, and then click the Refresh button. Even if jobs are detected from LPD of Job List, they might not be deleted from system. When this happens, delete the job from system again.
When LPD or SMB is selected, a message will appear to say that it is not spool mode.	After the present page is displayed, the printer might be rebooted. Click the Refresh button. If nothing happens, try changing from the browser.

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A Specifications

A.1 Product specifications

The specifications of the printer is as follows. We regret that improvements in specifications/ appearance of the product may be made without prior notice.

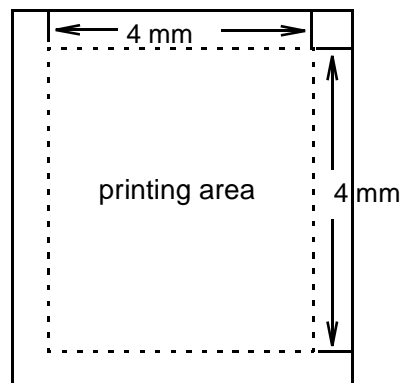
Item	Contents
Continuous Printing Speed (Paper from Tray 2)	Document Centre 285 Series: 1 Sided: 21.5 copies/min. (A4 ☐), 28 copies/min. (A4 ☐) 15.5 copies/min. (A3), 15.5 copies/min. (B4)
	Document Centre 235 Series: 1 Sided: 17 copies/min. (A4☐), 23 copies/min. (A4☐) 12 copies/min. (A3☐), 12 copies/min. (B4☐)
Resolution	23.6 dot/mm (600 dpi)
Paper Size	Tray 1: Postcard ☐, A5☐, B5☐, 8.5×11"☐ (Letter), A4 ☐
	Tray 2 - Tray 4: B5 ☐, B5☐, 8.5×11"☐, 8.5×11"☐, A4 ☐, A4☐, 8.5×13" ☐, 8.5×14" ☐, B4☐, A3☐, 11×17"☐, 8K
	Bypass Tray: (Maximum) 297×432 mm (Minimum) B6 ☐
Paper Type	Tray 1: Plain, Postcard
	Tray 2 - Tray 4: Plain
	Bypass Tray: Plain, Transparency, Postcard, Heavyweight (105-156 mg/m ²)
Paper Supply	Tray 1 - Tray 4: 500 sheets (P paper)
	Bypass Tray: 100 sheets (P paper)
Output Tray Capacity	Center Output Tray: 500 sheets (P paper)
	Side Output Tray: 200 sheets (P paper)
	Finisher Tray Upper: 500 sheets (P paper)
	Finisher Tray Lower: 200 sheets (P paper)
2 Sided Printing	Supported with the Duplex Unit installed Paper size supported: A5☐ , B5☐ , B5☐, 8.5×11"☐, 8.5×11"☐, A4 ☐, A4 ☐, 8.5×13"☐, 8.5×14"☐, B4☐, A3☐ , 11×17"☐, 8K
Memory	Standard: 32 Mbyte
	Option: 64 Mbyte additional memory
Installed Fonts	Standard: European 81
PDL	Standard: PCL6
	Option: PostScript 3

Item	Contents
Interface	Standard: Ethernet (100Base-TX/10Base-T), Bi-directional Parallel (IEEE1284-B), USB
	Option: Token Ring
Supported OS for drivers	Windows 95/Windows 98/Windows Me/Windows NT 4.0/ Windows 2000

A.2 Printing area

●●● Standard printing area

The printing area of each paper size is about the area remaining after subtracting 4 mm from all edges of the paper. The actual printing area may differ according to the printer language used.

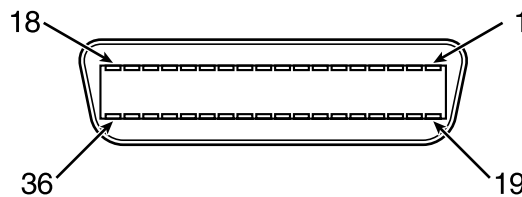


A.3 Parallel interface

This section describes the parallel interface (centronics/IEEE1284-compliant interface).

●●● Shape of the connector

The printer is installed with the IEEE1284-B type of interface. The shape of the connector is as follows:



●●● Pin arrangement

The pin arrangement of the various signals when bidirectional is OFF is as follows:

Pin No.	Signal Name	I/O	Pin No.	Signal Name	I/O
1	nStrobe	I	19	Signal Ground	-
2	Data1	I	20	Signal Ground	-
3	Data2	I	21	Signal Ground	-
4	Data3	I	22	Signal Ground	-
5	Data4	I	23	Signal Ground	-
6	Data5	I	24	Signal Ground	-
7	Data6	I	25	Signal Ground	-
8	Data7	I	26	Signal Ground	-
9	Data8	I	27	Signal Ground	-
10	nAck	O	28	Signal Ground	-
11	Busy	O	29	Signal Ground	-
12	Perror	O	30	Signal Ground	-
13	Select	O	31	nInit	I
14	nAutoFd	I	32	nFault	O
15	(RESERVED)	-	33	(RESERVED)	-
16	Logic GND	-	34	(RESERVED)	-
17	Chassis Gnd	-	35	(RESERVED)	-
18	Peripheral Logic High	O	36	nSelectIn	I

See

- Looking from the printer, "I" is the input signal, "O" is the output signal, and "-" is not a signal.
- When bi-directional is Enable, the connection adheres to the IEEE1284-B connector standard.

●●● Meaning of the signals

When the bi-directional is set to Disable:

- nStrobe(Pin No.1)
The synchronous signal for the reading of Data 1-8; needs the LOW active pulse.
- Data1-8(Pin No.2-9)
For the 8-bit parallel data input, Data 1 is LSB (lowest bit) and Data 8 is MSB (uppermost bit).
- nAck(Pin No.10)
A LOW active pulse signal which indicates that the received data has been taken in.
- Busy(Pin No.11)
A HIGH active signal which indicates that the printer is unable to receive data.
- Perror(Pin No.12)
A HIGH active signal which indicates that there is no more paper.
- Select(Pin No.13)
A HIGH active signal which indicates that it is possible to receive data.
- nAutoFd(Pin No.14)
The signal when the bi-directional is Enable.
- Chassis Gnd(Pin No.17)
Connected to frame ground.
- Peripheral Logic High(Pin No.18)
- +5V voltage on the host side.
- Signal Ground(Pin No.19-30)
Connected to the various signal ground.
- nInit(Pin No.31)
The LOW active pulse signal which requests for the initialization of the printer.
- nFault(Pin No.32)
The LOW active signal which indicates that errors such as paper jams have occurred in the printer.
- nSelectIn(Pin No.36)
The signal when the bi-directional is Enable.

When the bidirectional is set to Enable:

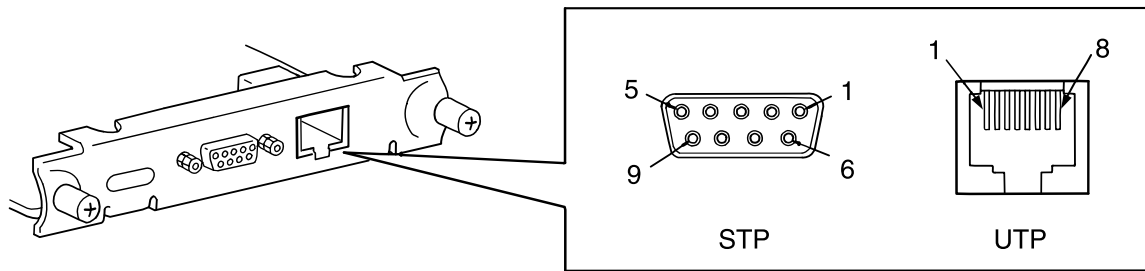
All connection adheres to the IEEE1284 connector standard.



A.4 Interface Board (for Token Ring)

This section describes the optional interface board (for Token Ring).

●●● Shape of the connector



●●● Pin arrangement

STP connector specifications			
Pin No.	Name	Pin No.	Name
1	RX-A	6	RX-B
2	N.C.	7	N.C.
3	N.C.	8	N.C.
4	N.C.	9	TX-A
5	TX-B	-	

UTP connector specifications			
Pin No.	Name	Pin No.	Name
1	N.C.	5	RX-A
2	N.C.	6	TX-B
3	TX-A	7	N.C.
4	RX-B	8	N.C.

B

Glossary

A3

420×297 mm paper.

A4

297×210 mm paper.

A5

210×148 mm paper.

ACK

The signal indicating that the printer is ready to receive data from the host device or that data is correctly received.

Adobe protocol

Communication protocol of PostScript printer in serial/parallel connection.

B4

364×257 mm paper.

B5

257×182 mm paper.

Buffer

The place where data received by the host device is stored.

Busy

Signal indicating that the printer is not able to receive data from the host device.

Common Menu

Makes up of port setting, print utility, maintenance mode of which settings other than emulation are made.

CPI

Stands for Character Per Inch, which is the number of characters that can be printed within a width of 1 inch.

CR

Stands for Carriage Return, which is the change of line.

Cut paper

Standard types of paper like A4, B5 etc.

DPI

Stands for Dot Per Inch, which is the number of dots that can be printed within a width of 1 inch.

Used as the unit for resolution.

DL

Stands for Double Letter. Also known as Ledger.

17×11" (432×279 mm) paper size.

DTR Control

Stands for Data Terminal Ready, which is the hardware signal that indicates whether the printer can receive data from the host device.

Emulation

The ability of the printer to perform the features of other printers.

Folio

13×8.5" (330×216 mm) paper.

Hard clip area

The actual rectangular area on the paper which can be printed.

Image Enhance

Feature which makes the border between black and white smooth, with rough edges reduced, giving the appearance of a higher resolution.

Job

A group of print data. The stopping and output of printing are conducted on a job basis. For mode menu changes, the new settings will be effective from the next job..Glossary

LED

Stands for Light Emitting Diode.

LG

14x8.5" (356x216 mm) paper. Also known as Legal.

LT

11x8.5" (279x216 mm) paper. Also known as Letter.

Mode Menu

Menu for setting the conditions pertaining to the PCL 6 emulation mode.

N-up

Feature for printing the data of N pages on a single sheet of paper.

NV Memory

Non-volatile memory which allows the settings of the printer to be maintained even when power is off.

Page buffer

The actual place where print data is retrieved and stored. The page buffer memory is secured after the printer memory is allocated to memories such as form memory, receive buffer memory etc., and it cannot be set using the control panel. The memory capacity of the page buffer can be checked using Common Menu > Print Utility [System Config].

Parity check

The checking of whether the data sent is being received.

Plotter coordinates

The coordinates of the plotter.

PostScript

Page-description language of Adobe Systems Incorporated.

Power Saver

The feature which saves the power consumption by lowering the temperature of the printer's fuser.

The power saver mode is automatically activated when the time set has elapsed after the previous print job.

Printing area

The actual area on paper which can be printed.

Protocol

The rules of communication necessary for carrying out data transmission.

RAM

Stands for Random Access Memory, which is the memory device where information can be retrieved as well as recorded.

ROM

Stands for Read Only Memory, which is the memory device specific for the retrieval of information.

Scaling

The enlargement and reduction of the input size (document size) by matching the output size (paper size).

Scaling Point

The limit of the specification of the plotting area.

8K

267x388 mm paper. Also called as Pakai.

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Customer Response Sheet

Document Centre 285/235 Series User Guide (Printer)

To improve our publications, we would appreciate your feedback regarding this manual. Please take a few moments to complete and return this form to us.

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