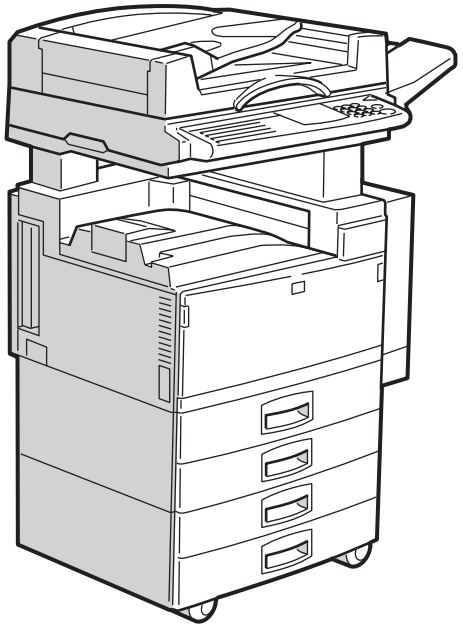
PRINTER Option Type 450

OPERATING INSTRUCTIONS

PRINTER REFERENCE (option)



PGB0000TN

Read this manual carefully before you use this product and keep it handy for future reference.
For safety, please follow the instructions in this manual.

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Introduction

This manual contains detailed instructions on the operation and maintenance of this machine. To get maximum versatility from this machine all operators should carefully read and follow the instructions in this manual.

Please read the Safety Information in the “Copy Reference” before using this machine. It contains important information related to USER SAFETY and PREVENTING EQUIPMENT PROBLEMS.

Important

Parts of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

Trademarks

Microsoft®, Windows®, and MS-DOS® are registered trademarks of Microsoft Corporation in the United States and/or other countries.

PostScript® is registered trademark of Adobe System Incorporated.

Other product names used herein are for identification purposes only and might be trademarks of their respective companies. We disclaim any and all rights in those marks.

Warning:

Use of controls or adjustment or performance of procedures other than those specified in this manual might result in hazardous radiation exposure.

Notes:

Some illustrations might be slightly different from your machine.

Certain options might not be available in some countries. For details, please contact your local dealer.

CE

Declaration of Conformity

“The Product complies with the requirements of the EMC Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC.”

Caution (in case of 100BaseTX environment):

Properly shielded and grounded cables (STP) and connectors must be used for connections to host computer (and/or peripheral) in order to meet EMC Directive 89/336/EEC emission limits.

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How To Read This Manual

Symbols

In this manual, the following symbols are used:

⚠ ***WARNING:***
This symbol indicates a potentially hazardous situation that might result in death or serious injury when you misuse the machine without following the instructions under this symbol. Be sure to read the instructions, all of which are described in the Safety Information section.

⚠ ***CAUTION:***
This symbol indicates a potentially hazardous situation that might result in minor or moderate injury or property damage that does not involve personal injury when you misuse the machine without following the instructions under this symbol. Be sure to read the instructions, all of which are described in the Safety Information section.

* The statements above are notes for your safety.

Important
If this instruction is not followed, paper might be misfed, originals might be damaged, or data might be lost. Be sure to read this.

Preparation
This symbol indicates the prior knowledge or preparations required before operating.

Note
This symbol indicates precautions for operation, or actions to take after misoperation.

Limitation
This symbol indicates numerical limits, functions that cannot be used together, or conditions in which a particular function cannot be used.

Reference
This symbol indicates a reference.

[ ]
Keys that appear on the machine's panel display.

Keys and buttons that appear on the computer's display.

【 】
Keys built into the machine's operation panel.

Keys on the computer's keyboard.

Option List

The following are the options that you can add to enhance the basic capabilities of the printer.

- Hard Disk : Printer Hard Disk Type 450
- Memory expansion : RAM SIMM
- NIB : Network Interface Board 450-E (NIB 450-E)
- Mailbox : Mailbox CS360
- PostScript® : PostScript®3 Kit Type 450

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Manuals for This Machine

Manuals for This Machine

There are four manuals that describe the operational procedures separately for the operation and maintenance of the machine.

This manual, the Printer Reference, contains detailed instructions for using this machine as a printer.

To ensure safe and efficient operation of the machine, all users should read and follow the instructions contained in the following manuals.

❖ **System Settings**
Describes the procedures and functions for adjusting the settings and defaults of this machine for fax and copier.

❖ **Copy Reference**
Describes the procedures and functions for using this machine as a copier.

❖ **FAX Reference**
Describes the procedures and functions for using this machine as a fax.

❖ **Printer Reference**
Describes the system settings, procedures and functions for using this machine as a printer.(This Manual)

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Requirements

Requirements

Before using this machine you must make sure that all the environmental and electrical requirements have been met. Connect the machine to your host computer using the parallel port, optional Network Interface Board 450-E (NIB 450-E), or both.

Make sure that all the cables, connectors, and electrical outlets necessary to attach the machine to your host computer or network are present.

Reference

For further information on using the parallel port.⇒ P.5 *"Connecting the Machine"*

For information on using a network. ⇒ P.5 *"Connecting the Machine"*

Parallel Cable Requirements

Connect the machine to your host computer using a parallel port. This machine does not provide the parallel cable to connect the machine to the host computer.

The machine's parallel connection is a standard bi-directional interface. It requires a standard 36-pin parallel cable compliant with IEEE 1284 and a parallel port available on the host computer.

Note

❒ Do not use a parallel cable more than 3 meters (10 feet) long.

Network Connections

Optional Network Interface Board 450-E (NIB 450-E) can be installed to allow direct connection to an Ethernet network.

The Ethernet card supports 10BaseT or 100BaseTX connections.

You can use the machine in a network environment as follows.

- Using the appropriate network management software and printer driver.
- Attaching the machine to a networked computer set up as a server.

Client Windows 3.1x, 95, 98, NT 4.0, Macintosh
Driver PCL 6/5e , PostScript®
File Server Netware 3.x , Netware 4.x
Protocol IPX/SPX, TCP/IP , EtherTalk(Macintosh only)

In a mixed network environment, the protocol automatically switches among network protocols.

Reference

Refer to the configuration guide that comes with the Network Interface Board 450-E (NIB 450-E) for more information on installing.

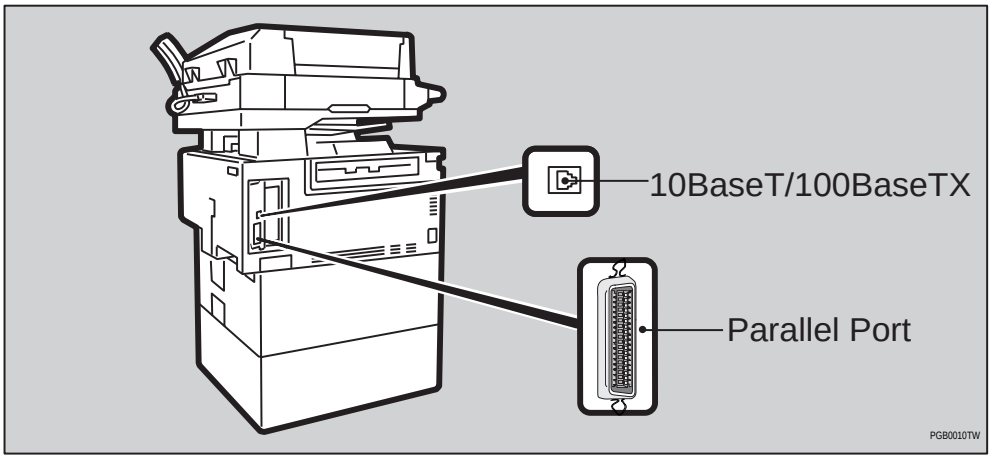
For information on resolving network connection problems.⇒ P.51 *"Trouble-shooting"*

Note

❒ Consult your Network Administrator before connecting your machine to a network.

Connecting the Machine

Make sure the shape and the position of the connector are as shown in the illustration.



Connecting the machine to the Host using the Parallel Cable

Connect the machine to the host computer using a parallel cable compliant with IEEE 1284 (supplied by you).

Follow these steps to connect the machine to your host computer:

1. **Make sure you have the correct cable.**
2. **Make sure both the machine and the host computer are turned off.**
3. **Plug the 36-pin end of the parallel cable into the parallel port at the back on the left side cover of the machine.**
4. **Squeeze the wire clips on each side of the connector together until they snap into place. The clips hold the cable securely in place.**
5. **Plug the other end of the parallel cable into the computer's parallel port.**

Connecting the machine to the Hub using the Network Interface Board 450-E (NIB 450-E)

Connect the machine using the Network Interface Board 450-E (NIB 450-E).

Follow these steps to connect the machine.

1. **Make sure you have a correct cable.**
2. **Make sure the machine is turned off.**

3 Plug the end of the network interface cable into the 10BaseT/100BaseTX port at the back on the left side cover of the machine.

4 Plug the other end of the cable into the Hub.

Note

- ❒ You can not connect to a Macintosh computer directly.
- ❒ You should confirm that the cable is connected to the 10BaseT / 100BaseTX port.
- ❒ Do not connect the cable to the ISDN port by mistake.
- ❒ In case of 100BaseTX environment, properly shielded and grounded cable (STP) must be used for connection to host computer (and / or HUB) in order to meet FCC and EMC Directive 89 / 336 / EEC emission limits.

2. Making Adjustments with the Operation Panel

This section is for the maintenance operators.

The User Tools set the default settings, which are divided into four menu items; System, Copy, Fax, and Printer. This section deals with the information on adjusting the printer settings using the System and the Printer menus.

Note

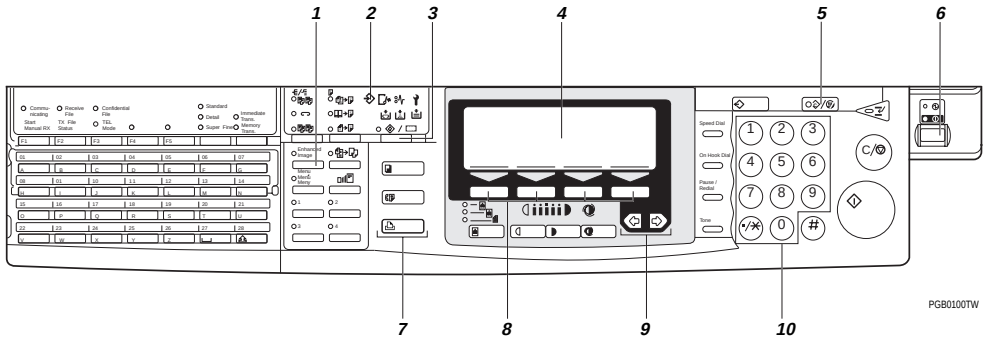
❒ After using the user tools, be sure to return to Printer mode. The settings are not canceled even if the operation switch is turned off or the **【Clear Modes/Energy Saver】** key is pressed.

❒ Function names displayed in a faint font become available when the machine is expanded.

Reference

For information on adjusting the Copy and the Fax settings. ⇒ refer to the "Copy Reference" , the "Fax Reference" or the "System Settings. "

Operation Panel



1. 【Enhanced Image】key

When Copier Hard Disk (Image Enhance Kit) is installed, press this key to make the collation.

If the indicator doesn't light, you can't make the collation, as Copier Hard Disk (Image Enhance Kit) is not installed.

2. Data In indicator

Shows if the print job is being sent from the host computer.

If the indicator is blinking, the job is being sent.

If the indicator stays on, there is the data to be printed out.

3. 【User Tools/Counter】key

❖ **User Tools**

Press to change the default settings and conditions to meet your requirements.

❖ **Counter**

Press to check or print the total number of prints made.

⇒ P.10 *"Adjusting Printer Features"*, P.21 *"Adjusting System Settings"*

4. Panel Display

Shows the operation status, error messages, and function menus.

5. 【Clear Modes/Energy Saver】key

Press this key for about 1 second to switch to and from Energy Saver mode.

Note

❒ This key is not effective, while the default settings of the Printer Features are being changed using User Tools.
⇒ P.10 *"Adjusting Printer Features"*, P.21 *"Adjusting System Settings"*

6. Operation Switch

Press this switch to turn the power on. (The On indicator lights up.) To turn off the power, press this switch again. (The On indicator goes off.)

Note

❒ This key is not effective, while the default settings of the Printer Features are being changed using User Tools.
⇒ P.10 *"Adjusting Printer Features"*, P.21 *"Adjusting System Settings"*

7. 【Function】key

Press to change modes(Copy, Fax, Printer) shown on the panel display. To use the printer function, press the **[Printer]** key.

8. 【Selection】keys

Press these keys under the item you wish to select.

9. ◀ and ▶ keys (Cursor keys)

Use these keys to move to another page of the panel display.

10. 【Number】keys

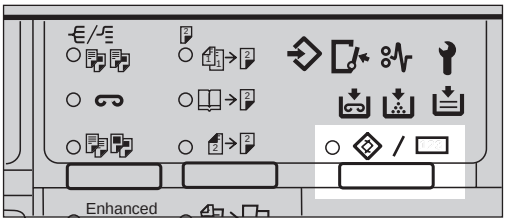
Use these keys to enter a numeric value.

Adjusting Printer Features

Accessing the Printer Features

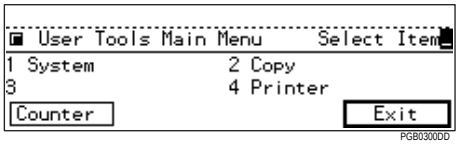
1 **Press the【User Tools/Counter】key.**

The User Tools Main Menu appears.



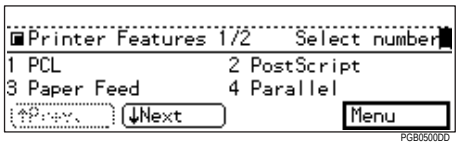
2 **Enter【4】with the【Number】keys.**

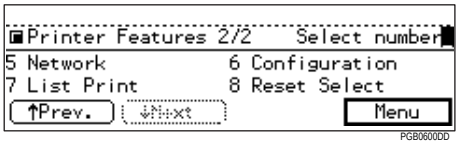
The Printer Features menu appears.





3 **Search for the desired menu with the【Number】keys.**





Note

❒ **【↓Next】**: Press to go to the next page

❒ **【↑Prev.】**: Press to go back to the previous page.

⇒ P.8 *"Operation Panel"*

4 Change the settings by following the instructions on the panel display. Then press【OK】.

Note

❒ 【OK】: Press to set the new settings and return to the previous menu.

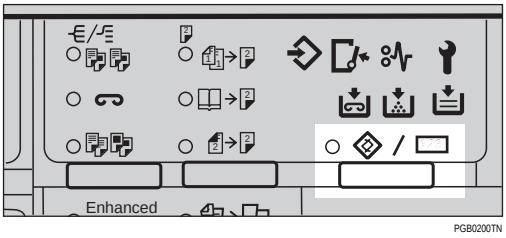
❒ 【Cancel】: Press to return to the previous menu without changing any data.

⇒ P.13 *"Printer Features Parameters"*

Exiting from User Tools

1 After changing the user tools settings, go back to the User Tools Main Menu.

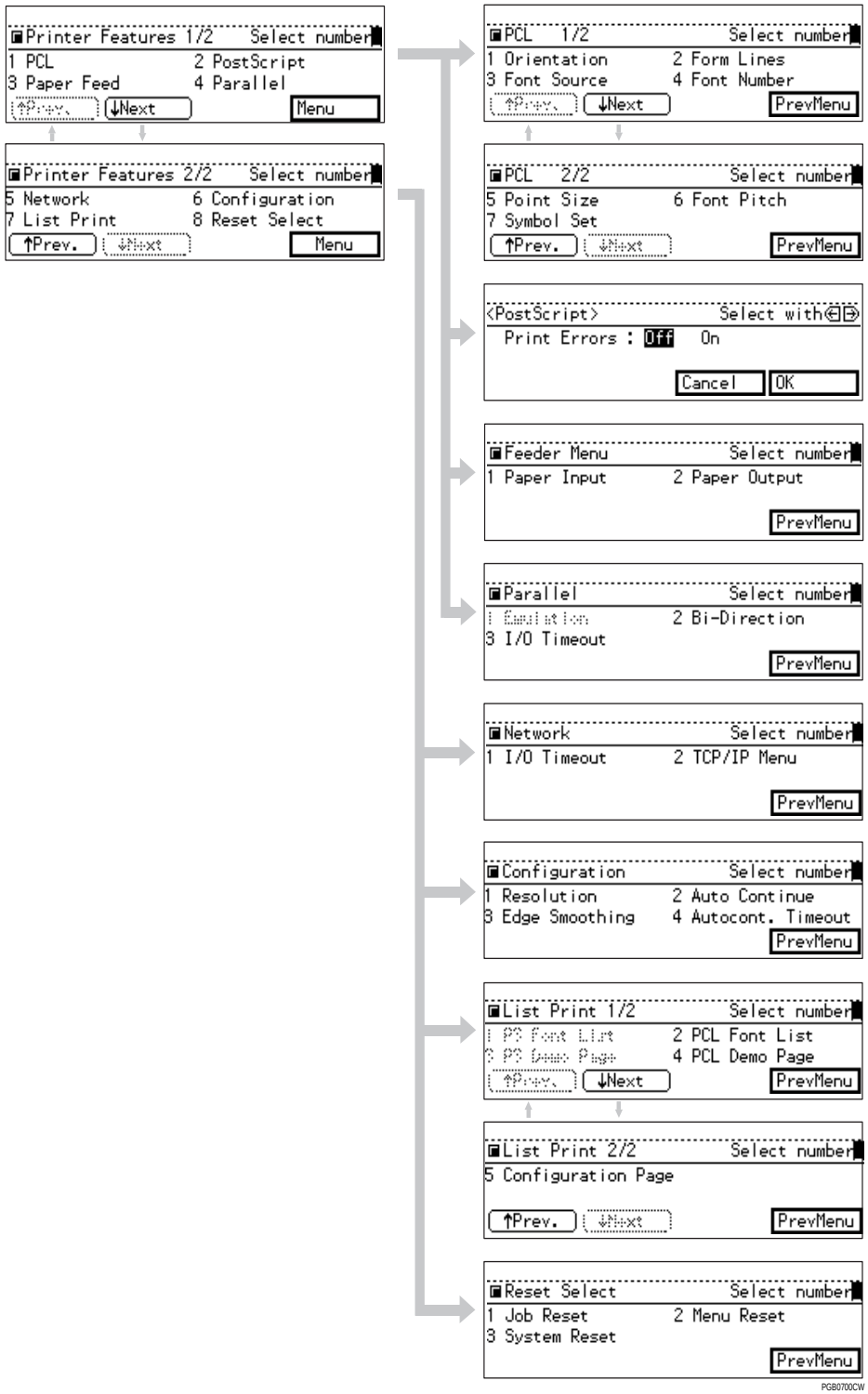
2 Press the【User Tools/Counter】key.



Note

❒ You can also exit from user tools by pressing the【Exit】key on the User Tools Main Menu.

Printer Features Menu



Printer Features Parameters

PCL

Menu	Description
01. Orientation	You can specify the page orientation: • Portrait • Landscape **Note** ❒ Default: *Portrait*
02. Form Lines	You can specify the number of lines per page: 5 to 128 The default settings depend on the paper size. **Note** ❒ Default: *64* (*A4*) ❒ Default: *60* ($8^1/_2 \times 11$)
03. Font Source	You can specify the location of the default font: ❖ **Internal** Specifies that you want to use the resident font as the default font. ❖ **Soft** Specifies that you want to use the font downloaded from the host machine as the default font. **Note** ❒ Default: *Internal*
04. Font Number	You can specify the value for the default font you want to use: 0 to 999 **Note** ❒ Default: *0*

Menu	Description
05. Point Size	You can specify the value for the point size you want to use for the selected font in increments of 0.25: 4.00 to 999.75 **Note** ❒ Default: *12.00* When an incorrect size is entered, it blinks for about 2 seconds. Enter the correct size at that time.
06. Font Pitch	You can specify the number of characters per inch for the selected font in increments of 0.01: 0.44 to 99.99 **Note** ❒ Default: *10.00*
07. Symbol Set	You can specify the set of print characters for the selected font. Search for the desired font among the options shown in the 6 screens. Roman-8 , Windows Latin 1 , Windows Latin 2 , Windows Latin 5 , Windows Baltic , Win 3.0 , Legal , ISO Latin 1 , ISO Latin 2 , ISO Latin 5 , ISO 4 , ISO 6 , ISO 11 , ISO 15 , ISO 17 , ISO 21 , ISO 60 , ISO 69 , PC-8 , PC-850 , PC-852 , PC-T004 , PC-8 DN , PC-Turk , Ventura Math , Ventura US , Ventura Intel , Microsoft Publishing , Pifont , Desktop , Math-8 , PS Math , PS Text , MC Text **Note** ❒ Default: *Roman-8*

PostScript®

Menu	Description
Printer Errors	You can specify whether the PostScript® Error Report should be printed: • Off • On **Note** ❒ Default: *Off*

Paper Feed

Menu	Description
01.Input	You can make the input settings as follows. ❖ **Paper Size** You can specify the paper size when the paper size is not specified by the application. A3 , 11 × 17 , B4 , $8^1/_2 \times 14$, $8^1/_4 \times 13$, 8 × 13 , $8^1/_2 \times 13$, A4 , $8^1/_2 \times 11$, $7^1/_4 \times 10^1/_2$, B5 , A5 , $5^1/_2 \times 8^1/_2$, A6 **Note** ❒ Default: Metric Version *A4* ❒ Default: Inch Version $8^1/_2 \times 11$ ❖ **Tray Priority** You can specify the input paper tray. Only the installed trays appear on the panel display. Auto , LCT , Bypass , Tray1 , Tray2 , Tray3 , Tray4 **Note** ❒ Default: *Auto* ❖ **Auto Tray Switch** You can specify whether the Auto Tray Switch is on. When the Auto Tray Switch is On, and the current paper tray becomes empty during a print job, the machine automatically changes the paper tray to the one that contains the paper of the same type, size and orientation. • On • Off **Note** ❒ Default: *On* ❖ **Bypass Paper Type** You can specify the type of paper in the Bypass Tray: • Standard • OHP • Thick Paper **Note** ❒ Default: *Standard*

Menu	Description
02. Output (1/2)	You can make the output settings as follows. ❖ **Duplex** You can specify whether you want to print on both sides of each page. If so, you can also specify the orientation of paper. • Off • Bind-Long • Bind-Short **Note** ❒ Default: *Off* ❖ **Sort** You can specify whether you want to collate the output. If so, you can also specify the printing order. • Off • Shift • Rotate **Note** ❒ Default: *Off* ❖ **Staple** You can specify whether you want to staple the output. If so, you can also specify the stapling position among the options shown in the 5 screens. Off , Left Slant Port , Left Slant Land , Left Vart Port , Left Vart Land , Left Horiz Port , Left Horiz Land , Left 2 Port , Left 2 Land , Right Slant Port , Right Slant Land , Right Vart Port , Right Vart Land , Right Horiz Port , Right Horiz Land , Right 2 Port , Right 2 Land , Top 2 Port , Top 2 Land **Note** ❒ Default: *Off*

Menu	Description
02. Output (2/2)	❖ **Punch** You can specify whether you want to punch the output for filing. If so, you can also specify the punching position among the options shown in the 2 screens. Off , Left Port , Left Land , Right Port , Right Land , Top Port , Top Land **Note** ❒ Default: *Off* ❖ **Mailbox Tray Prio** You can specify to which bins print out should be delivered. 1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 **Note** ❒ Default: *1*

Parallel

Menu	Description
01. Emulation	You can specify the page description language for print jobs received through the parallel port: • Auto • PCL • PostScript® **Note** ❒ Default: *Auto*
02. Bi-Direction	You can specify whether bi-directional communication between this machine and the host computer is enable. • Off • On **Note** ❒ Default: *On*

Menu	Description
03. I/O Timeout	You can specify how many seconds to wait until an incomplete print job should end, and the next port in the polling sequence should be set in increments of 1. 5-300sec **Note** ❒ Default: *30sec.*

Network

Menu	Description
01. I/O Timeout	You can specify how many seconds to wait until an incomplete print job should end, and the next port in the polling sequence should be set in increments of 1. 5-300sec **Note** ❒ Default: *30sec.*
02. TCP/IP	❖ **IP Address** You can specify the IP Address. **Note** ❒ Default: *All zero* ❖ **Subnet Mask** You can specify the Subnet Mask. **Note** ❒ Default: *All zero* ❖ **Gateway Address** You can specify the Gateway Address. **Note** ❒ Default: *All zero*

Configuration

Menu	Description
01. Resolution	You can specify the print resolution in dots per inch: • 300dpi • 600dpi **Note** ❒ Default: *600dpi*
03. Auto Continue	You can specify whether the Auto Continue feature is enabled. When it is On, printing continues after a system error occurs: • Off • On **Note** ❒ When it is on, and certain types of error occur, the current job might be canceled, and the machine automatically resumes the next job. ❒ Default: *On*
04. Edge Smoothing	You can specify whether the Edge Smoothing feature is enabled. • Off • On **Note** ❒ Default: *On*
05. Autocont.Timeout	You can specify how many seconds to wait until the Auto Continue Feature should end in increments of 1. 5-300 sec **Note** ❒ Default: *30sec.*

List Print

Menu	Description
01. PS Font List	You can print a list of installed PS fonts.
02. PCL Font List	You can print a list of installed PCL fonts.
03. PS Demo Page	You can print a PS Demo Page.
04. PCL Demo Page	You can print a PCL Demo Page.
05. Configuration Page	You can print a page describing the printer configuration.

Reset Select

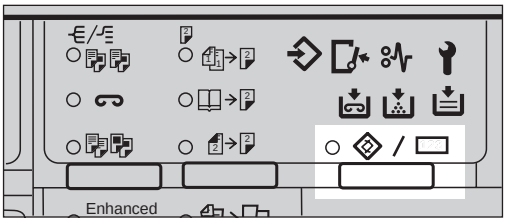
Menu	Description
01. Job Reset	You can cancel the print job currently being processed.
02. Menu Reset	You can cancel the print job and restore some of the menu parameters to their factory defaults. **Note** ❒ The following parameters do not change back to their factory defaults: • Bi-Direction • TCP / IP Settings
03. System Reset	You can reset the system.

Adjusting System Settings

Accessing the System Settings

1 **Press the [User Tools/Counter] key.**

The User Tools Main Menu appears.



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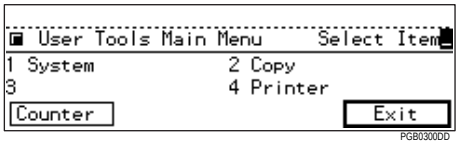
2 **Enter [1] with the [Number] keys.**

The System menu appears.



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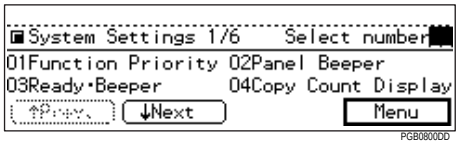
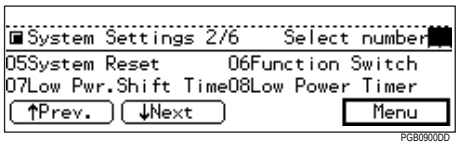
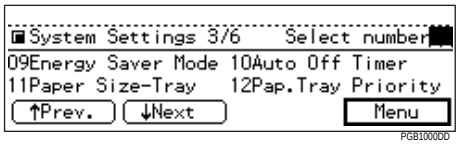
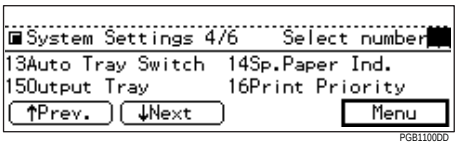
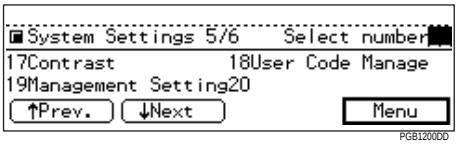
3 **Search for the desired menu with the 【Number】 keys.**

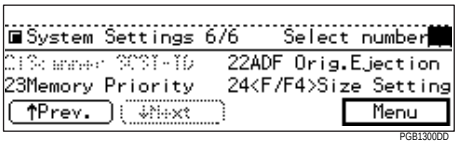












Note

❒ 【↓Next】: Press to go to the next page

❒ 【↑Prev.】: Press to go back to the previous page.

⇒ P.8 *"Operation Panel"*

4 **Change the settings by following the instructions on the panel display. Then press 【OK】.**

Note

❒ 【OK】: Press to set the new settings and return to the previous menu.

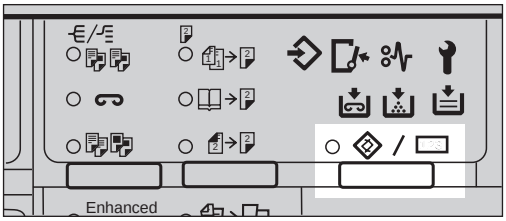
❒ 【Cancel】: Press to return to the previous menu without changing any data.

⇒ P.24 *"System Settings Parameters"*

Exiting from User Tools

1 **After changing the user tools settings, go back to the User Tools Main Menu.**

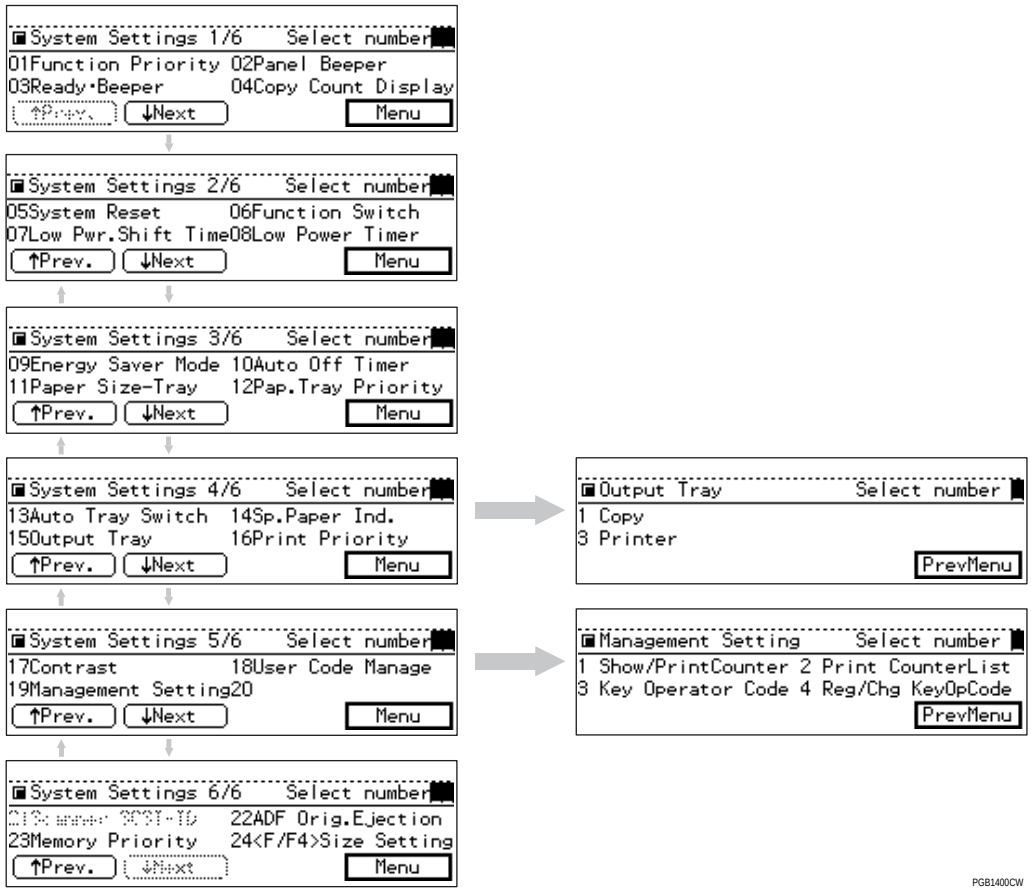
2 **Press the【User Tools/Counter】key.**



Note

❒ You can also exit from user tools by pressing the【Exit】key on the User Tools Main Menu.

System Settings Menu



System Settings Parameters

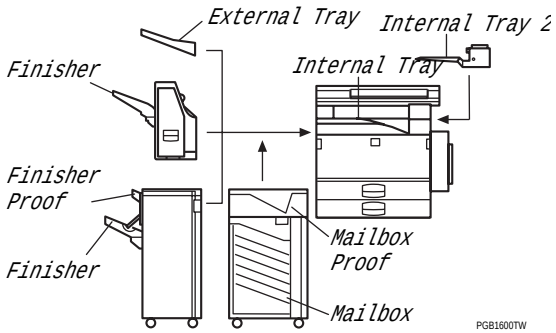
This section contains the information on the parameters only used for the Printer.

Reference

For information on the other parameters in the System Settings menu.⇒ P.24 *"System Settings Parameters"*

For information on how to access the user tools. ⇒ P.21 *"Accessing the System Settings"*

System Settings

Menu	Description
01. Function Priority	You can specify the mode to be displayed immediately after the operation switch is turned on or the System Reset mode is turned on. **Note** ❒ Default: *Copy*
15. Output Tray	You can specify a tray to which documents are delivered for each mode (Copy, Fax and Printer). **Note** ❒ You can specify a single tray for two or more modes. Even if "Internal Tray" is specified as the Output tray, the paper whose horizontal size to the machine is 300mm or longer will be delivered to "Finisher Proof" or "Mailbox Proof" tray. With the optional 3000-sheet finisher installed, it will be automatically delivered to the “Finisher Proof” tray. With the optional Mailbox and the optional 3000-sheet finisher installed, it will be automatically delivered to the “Mailbox Proof” tray. 

Menu	Description
16. Print Priority (setting the multi-accessing function)	Sets the print priority for each mode. • "Display" Print priority is given to the mode shown on the display. • "Copy" Print priority is given to the copy function. • "Fax" Print priority is given to the fax function. • "Printer" Print priority is given to the printer function. • "Interleave" Makes use of the Multi-Access functions to print jobs in the order in which they are initiated regardless of mode / function. As the output from the different functions may be inconveniently placed on the same tray, it is possible to separate output trays for each function using the "Output Tray" feature.
23. Memory Priority	You can select which function should be prioritized for the memory allocation of Copier Hard Disk (Image Enhance Kit) .

Installing the PCL 6/5e Printer Driver

Printing requires installation of a printer driver for your operating system.

This section provides basic procedures for installing the printer driver. The actual procedure differs somewhat depending on your operating system.

Follow the right one of the procedures below.

Windows 95/98 - Installing the PCL 6/5e Printer Driver

Follow these steps to install the PCL 6/5e printer driver on your Windows 95/98 system:

1. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**
2. **Close all the applications that are currently running.**
3. **Click on [Start] on the task bar.**
4. **Click on [Run].**
5. **In the “Run” window, click on [Browse...].**
6. **Select the CD-ROM Drive.**
7. **Open the folder called “Pcl6 (or Pcl5e)”.**
8. **Open the folder called "Win31_95".**
9. **Open the folder of appropriate language.**
10. **Open the folder called "Disk1".**
11. **Open the file titled "Setup.exe"**
12. **Click on [OK].**
13. **Follow the instructions on the screen.**

Windows 3.1x - Installing the PCL 6/5e Printer Driver

Follow these steps to install the PCL 6/5e printer driver on your Windows 3.1x system:

1. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**
2. **Close all the applications that are currently running.**
3. **From the [Program Manager], click on [Run] from the [File] menu.**
4. **In the "Run" window, click on [Browse...].**
5. **Select the CD-ROM Drive in the Drives list.**
6. **Open the folder called "Pcl6 (or Pcl5e)".**
7. **Open the folder called "Win31_95".**
8. **Open the folder of appropriate language.**
9. **Open the folder called "Disk1".**
10. **Open the file titled "Setup.exe".**
11. **Click on [OK].**
12. **Follow the instructions on the screen.**

Windows NT 4.0 - Installing the PCL 6/5e Printer Driver

Follow these steps to install the PCL 6/5e printer driver on your Windows NT4.0 system:

1. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**
2. **Close all the applications that are currently running.**
3. **Click on [Start] on the task bar.**
4. **Click on [Run].**
5. **In the "Run" window, click on [Browse...].**
6. **Select the CD-ROM Drive.**
7. **Open the folder called "Pcl6 (or Pcl5e)".**
8. **Open the folder called "Nt4".**

9. **Open the folder of appropriate language.**
10. **Open the folder called "Disk1".**
11. **Open the file titled "Setup.exe".**
12. **Click on [OK].**
13. **Follow the instructions on the screen.**

Uninstalling the PCL 6/5e Printer Driver

This section provides basic procedures for uninstalling the printer driver. The actual procedure differs somewhat depending on your operating system.

Follow the right one of the procedures below.

Windows 95/98 - Uninstalling the PCL 6/5e Printer Driver

Follow these steps to uninstall the printer driver:

1. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**
2. **Close all the applications that are currently running.**
3. **Click on [Start] on the task bar.**
4. **Click on [Run].**
5. **In the "Run" window, click on [Browse...].**
6. **Select the CD-ROM Drive.**
7. **Open the folder called "Pcl6 (or Pcl5e)".**
8. **Open the folder called "Win31_95".**
9. **Open the folder of appropriate language.**
10. **Open the folder called "Disk1".**
11. **Open the file titled "Unsetup.exe".**
12. **Click on [OK].**
13. **Follow the instructions on the screen.**

Windows 3.1x - Uninstalling the PCL 6/5e Printer Driver

Follow these steps to uninstall the printer driver:

1. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**
2. **Close all the applications that are currently running.**
3. **From the [Program Manager], click on [Run] from the [File] menu.**
4. **In the "Run" window, click on [Browse...].**

5. **Select the CD-ROM Drive in the Drives list.**
6. **Open the folder called “Pcl6 (or Pcl5e)”.**
7. **Open the folder called "Win31_95".**
8. **Open the folder of appropriate language.**
9. **Open the folder called "Disk1".**
10. **Open the file titled "Unsetup.exe".**
11. **Click on [OK].**
12. **Follow the instructions on the screen.**

Windows NT 4.0 - Uninstalling the PCL 6/5e Printer Driver

Follow these steps to uninstall the printer driver:

1. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**
2. **Close all the applications that are currently running.**
3. **Click on [Start] on the task bar.**
4. **Click on [Run].**
5. **In the “Run” window, click on [Browse...].**
6. **Select the CD-ROM Drive.**
7. **Open the folder called “Pcl6 (or Pcl5e)”.**
8. **Open the folder called "Nt4".**
9. **Open the folder of appropriate language.**
10. **Open the folder called "Disk1".**
11. **Open the file titled "Unsetup.exe".**
12. **Click on [OK].**
13. **Follow the instructions on the screen.**

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4. Installing the PostScript® Printer Driver

Installing the PostScript® Printer Driver

Printing requires installation of a printer driver for your operating system.

This section provides basic procedures for installing the printer driver. The actual procedure differs somewhat depending on your operating system.

Follow the right one of the procedures below.

Windows 95/98 - Installing the PostScript® Printer Driver

Follow these steps to install the PostScript® printer driver on your Windows 95/98 system:

1. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**
2. **Close all the applications that are currently running.**
3. **Click on [Start] on the task bar.**
4. **Click on [Run].**
5. **In the "Run" window, click on [Browse...].**
6. **Select the CD-ROM Drive.**
7. **Open the folder called "Ps".**
8. **Open the folder called "Win95_98".**
9. **Open the folder of appropriate language.**
10. **Open the folder called "Disk1".**
11. **Open the file titled "Setup.exe".**
12. **Click on [OK].**
13. **Follow the instructions on the screen.**

Using the PostScript®printer driver with the Adobe PageMaker for Windows 95/98

If you use the printer under Windows95/98 with the Adobe PageMaker, you need to copy the PPD file to the PageMaker directory.

The PPD file is the file with extension ".ppd" under on the directory \PS\WIN95_98\ENGLISH\DISK1\, on the CD labeled Printer Drivers and Utilities for Windows/Mac. The last directory, "ENGLISH" may be substituted by appropriate language name. Copy this file to the PageMaker's directory.

For PageMaker 6 default installation, the directory is "C:\PM6\RSRC\USENGLISH\PPD4", and for PageMaker 6.5 default installation, the directory is "C:\PM65\RSRC\USENGLISH\PPD4". The "USENGLISH" may be different, depending on your language selection.

Windows 3.1x - Installing the PostScript® Printer Driver

Follow these steps to install the PostScript® printer driver on your Windows 3.1x system:

1. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**
2. **Close all the applications that are currently running.**
3. **From the [Program Manager], click on [Run] from the [File] menu.**
4. **In the "Run" window, click on [Browse...].**
5. **Select the CD-ROM Drive in the Drives list.**
6. **Open the folder called "Ps".**
7. **Open the folder called "Win31".**
8. **Open the folder of appropriate language.**
9. **Open the folder called "Disk1".**
10. **Open the file titled "Setup.exe".**
11. **Click on [OK].**
12. **Follow the instructions on the screen.**

Using the PostScript®printer driver with the Adobe PageMaker for Windows 3.1x

If you use the printer under Windows3.1x with the Adobe PageMaker, you need to copy the PPD file to the PageMaker directory.

The PPD file is the file with extension ".ppd" under on the directory \PS\WIN3.1\ENGLISH\DISK1\, on the CD labeled Printer Drivers and Utilities for Windows/Mac. The last directory, "ENGLISH" may be substituted by appropriate language name. Copy this file to the PageMaker's directory.

For PageMaker 6 default installation, the directory is "C:\PM6\RSRC\USENGLISH\PPD4", and for PageMaker 6.5 default installation, the directory is "C:\PM65\RSRC\USENGLISH\PPD4". The "USENGLISH" may be different, depending on your language selection.

Windows NT 4.0 - Installing the PostScript® Printer Driver

Follow these steps to install the PostScript® printer driver on your Windows NT4.0 system:

1. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**
2. **Close all the applications that are currently running.**
3. **Click on [Start] on the task bar.**
4. **Click on [Run].**
5. **In the "Run" window, click on [Browse...].**
6. **Select the CD-ROM Drive.**
7. **Open the folder called "Ps".**
8. **Open the folder called "Nt4".**
9. **Open the folder of appropriate language.**
10. **Open the folder called "Disk1".**
11. **Open the file titled "Setup.exe".**
12. **Click on [OK].**
13. **Follow the instructions on the screen.**

Using the printer driver with the Adobe PageMaker for Windows NT4.0

If you use the printer under Windows NT4.0 with the Adobe PageMaker, you need to copy the PPD file to the PageMaker directory.

The PPD file is the file with extension ".ppd" under on the directory \PS\WINNT4\ENGLISH\DISK1\, on the CD labeled Printer Drivers and Utilities for Windows/Mac. The last directory, "ENGLISH" may be substituted by appropriate language name. Copy this file to the PageMaker's directory.

For PageMaker 6 default installation, the directory is "C:\PM6\RSRC\USENGLISH\PPD4", and for PageMaker 6.5 default installation, the directory is "C:\PM65\RSRC\USENGLISH\PPD4". The "USENGLISH" may be different, depending on your language selection.

Macintosh - Installing the PostScript® Printer Driver

Be sure to install the appropriate driver for Macintosh. The software requires a System 7.6 or later Macintosh operating system.

Follow the steps below to install the PostScript® printer driver for Macintosh that is contained in the PostScript® option.

1. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**
2. **Double click on the CD icon.**
3. **Double click on a folder of appropriate language.**
4. **Double click on the installer icon.**
5. **Follow the instructions on the screen.**

Uninstalling the PostScript® Printer Driver

This section provides basic procedures for uninstalling the printer driver. The actual procedure differs somewhat depending on your operating system.

Follow the right one of the procedures below.

Windows 95/98 - Uninstalling the PostScript® Printer Driver

Follow these steps to uninstall the printer driver:

1. **Click on [Start] on the task bar.**
2. **Point to [Settings] and click on [Printers].**
3. **Select the printer you want to delete.**
4. **From the [File] menu, click on [Delete].**
   A confirmation dialog box appears.
5. **Click on [Yes] to delete the printer driver.**

Windows 3.1x - Uninstalling the PostScript® Printer Driver

Follow these steps to uninstall the printer driver:

1. **Open the [Control Panel].**
2. **Double click on the Printer icon.**
3. **Select the printer you want to delete and click on [Remove].**
   A confirmation dialog box appears.
4. **Click on [Yes] to delete the printer.**
5. **Click on [Close] to delete the printer driver.**

Windows NT 4.0 - Uninstalling the PostScript® Printer Driver

Follow these steps to uninstall the printer driver:

1. **Click on [Start] on the task bar.**
2. **Point to [Settings] and click on [Printers].**
3. **Select the printer you want to delete.**

4 From the [File] menu, click on [Delete].

A confirmation dialog box appears.

5 Click on [Yes] to delete the printer driver.

Installing the Font Manager

Printing under a Windows system requires installation of the Font Manager for your operating system.

This section provides basic procedures for installing the Font Manager.

The actual procedure differs somewhat depending on your operating system.

Follow the right one of the procedure below.

Windows 95/98/NT4.0 - Installing the Font Manager

Follow these steps to install the Font Manager on Windows 95/98/NT4.0 system:

1. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**
2. **Close all the applications that are currently running.**
3. **Click on [Start] on the task bar.**
4. **Click on [Run].**
5. **In the "Run" window, click on [Browse...].**
6. **Select the CD-ROM Drive.**
7. **Open the folder called "Fontman".**
8. **Open the folder called "Disk1".**
9. **Open the file titled "Setup.exe".**
10. **Click on [OK].**
11. **Follow the instructions on the screen.**

Windows 3.1x - Installing the Font Manager

Follow these steps to install the Font Manager on Windows 3.1x system:

1. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**
2. **Close all the applications that are currently running.**

3 **From the [Program Manager], click on [Run].**

4 **In the “Run” window, click on [Browse...].**

5 **Select the CD-ROM Drive in the Drivers list.**

6 **Open the folder called "Fontman".**

7 **Open the folder called "Disk1".**

8 **Open the file titled "Setup.exe".**

9 **Click on [OK].**

10 **Follow the instructions on the screen.**

Uninstalling the Font Manager

This section provides basic procedures for uninstalling the Font Manager. The actual procedure differs somewhat depending on your operating system.

Follow the right one of the procedures below.

Windows 95/98/NT4.0 - Uninstalling the Font Manager

Follow these steps to uninstall the Font Manager:

1. **Click on [Start] on the task bar.**
2. **Point to [Settings] and click on [Control Panel].**
3. **Double click on the file titled "Add/Remove Programs".**
4. **Click on the [AGFA Font Manager] in the list box.**
5. **Click on [Add/Remove...].**
   A confirmation dialog box appears.
6. **Click on [Yes].**
7. **Follow the instructions on the screen.**

Windows 3.1x - Uninstalling the Font Manager

Follow these steps to uninstall the Font Manager:

1. **Open the "AGFA Font Manager" window in the [Program Manager].**
2. **Double click on "unInstallShield".**
3. **Follow the instructions on the screen.**

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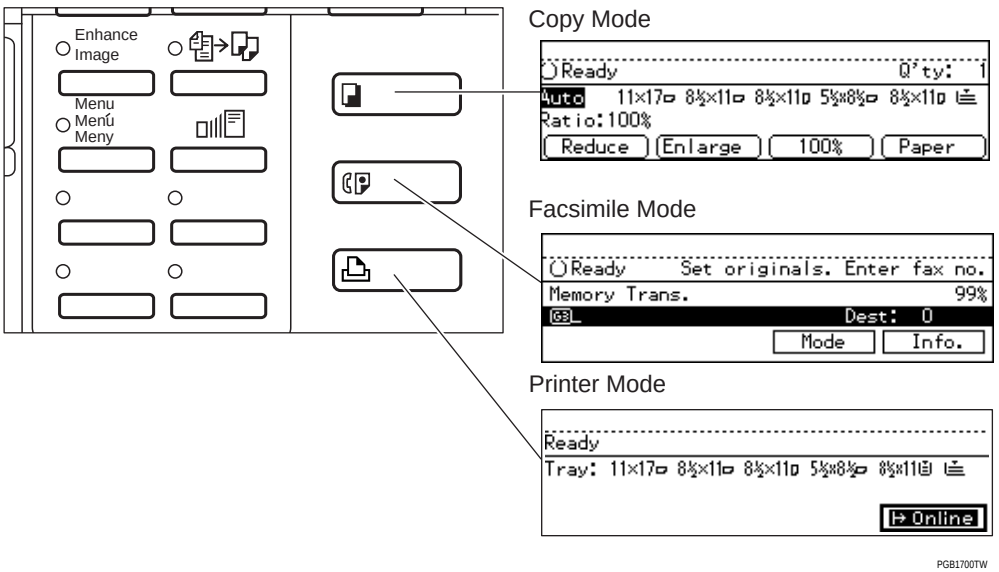
Changing a Mode

You can use this machine not only as a copier, but optionally as a fax machine or a printer as well. Press the **[Print]** key to use the printer functions.



Limitation

❒ You cannot switch modes in any of the following cases:

- When scanning in a fax message for transmission.
- During immediate transmission.
- When accessing the user tools.
- During interrupt copying.

Starting a Print Job

This section provides basic procedures for starting and canceling a print job from a Windows application. The actual procedure differs somewhat depending upon the application used. For full details on printing, refer to the documentation and on-line help that comes with your application.

Windows 95/98 - Starting a print Job

Follow these steps to print a document.They are shown using WordPad as an example.

1 From the [File] menu, click on [Page Setup].

2 Specify the size, source, orientation and margins of the paper, and click on [OK].

Note

❒ Use **[Size]** to select the paper size that matches the paper loaded in the printer's paper tray.

❒ Use **[Source]** to select **[Auto Tray Select]**.

3 Input the text you want to print.

4 From the [File] menu, click on [Print].

The “Print” dialog box appears.

5 Make sure that the name of your machine is selected under [Name], and then click on [OK] to start printing.

Note

❒ If another printer is shown under **[Name]**, use the drop down menu to select the name of your machine.

❒ Clicking the **[Print]** dialog box's **[Properties]** button displays a screen for changing the settings of the printer drivers settings.

Windows 3.1x - Starting a print Job

Follow these steps to print a document.They are shown using Write as an example.

1 Use Write to create a document to print.

2 From the [File] menu, click on [Print Setup].

3 Make sure that the name of your machine is selected for the [Default Printer], and specify the paper size and source that you want to use.

Note

❒ Use **[Size]** to select the paper size that matches the paper loaded in the printer's paper tray.

❒ Use **[Source]** to select **[Auto Tray Select]**.

4 Click on [OK].

The above step closes the "Print Setup" dialog box.

5 From the [File] menu, click on [Print].

The "Print" dialog box appears.

Note

❒ Click the "Print" dialog box's **[Setup]** button to open the printer driver screen to change the printer setup, and specify the number and the range of pages to be printed.

6 Make sure that the name of your machine is selected under [Printer Name], and then click on [OK] to start printing.

Note

❒ If another printer is selected, click on **[Setup...]** and select the name of your machine.

Windows NT4.0 - Starting a print Job

Follow these steps to print a document.They are shown using WordPad as an example.

1 From the [File] menu, click on [Page Setup].

The "Page Setup" dialog box appears.

2 Specify the size, source, orientation and margins of the paper, and click on [OK].

Note

❒ Use **[Size]** to select the paper size that matches the paper loaded in the printer's paper tray.

❒ Use **[Source]** to select **[Auto Tray Select]**.

3 Input the text you want to print.

4 From the [File] menu, click on [Print].

The "Print" dialog box appears.

5 **Make sure that the name of your machine is selected under [Name], and then click on [OK] to start printing.**

Note

- If another printer is shown under **[Name]**, use the drop down menu to select the name of your machine.
- Cliking the **[Print]** dialog box's **[Properties]** button displays a screen for changing the settings of the printer drivers settings.

Canceling a Print Job

This section provides basic procedures for starting and canceling a print job from a Windows application. The actual procedure differs somewhat depending upon the application you are using. For full details on printing, refer to the documentation and the on-line help that comes with your application.

Windows 95/98 - Canceling a print Job

Follow the steps below to cancel a print job.

1 Press the【Online】key of your machine's operation panel.

The foreground and background of the【Online】on the panel display is reversed.

2 Ready changes into Offline, and【JobReset】appears on the panel display.

3 Double click on the printer icon displayed on the task bar.

This opens a printer window that shows a queue of documents being processed by the printer. It includes documents being printed, as well as paused.

The word “Printing” in the ”Status” column indicates documents for which print data is being sent from your computer to the printer. If nothing is shown in the ”Status” column, it means that the document is waiting for being printed.

4 Click the document name you want to cancel.

5 From the [Document] menu, click on [Cancel Printing].

The selected documents are cleared from the queue.

6 Press the【JobReset】key of your machine's operation panel.

This clears data of the print job.

7 Press the【Online】key of your machine's operation panel.

The foreground and background of the【Online】on the panel display is reversed, and Ready appears on the panel display.

Windows 3.1x - Canceling a print Job

Follow the steps below to cancel a print job.

1 Press the【Online】key of your machine's operation panel.

The foreground and background of the【Online】on the panel display is reversed.

2 Ready changes into Offline, and 【JobReset】 appears on the panel display.

3 Double click on the "Print Manager" icon.

This opens the "Print Manager" window.

4 Select the name of the printer that is printing and click on [Pause].

This above step interrupts the transmission of print data to the printer.

5 Select the document you want to cancel and click on [Cancel].

A dialog box appears to confirm whether you really want to cancel the print job.

6 Click on [OK].

Note

❒ To resume the printer being paused in the step 4, select the paused printer and click on **[Resume]**.

7 Press the 【JobReset】 key of your machine's operation panel.

This clears the print job's data.

8 Press the 【Online】 key of your machine's operation panel.

The foreground and background of the 【Online】 on the panel display is reversed, and Ready appears on the panel display.

Windows NT4.0 - Canceling a print Job

Follow the steps below to cancel a print job.

1 Press the 【Online】key of your machine's operation panel.

The foreground and background of the 【Online】 on the panel display is reversed.

2 Ready changes into Offline, and 【JobReset】 appears on the panel display.

3 Double click on the printer icon displayed on the task bar.

This opens a printer window that shows a queue of documents being processed by the printer. It includes documents being printed, as well as paused.

The word "Printing" in the "Status" column indicates documents for which print data is being sent from your computer to the printer. If nothing is shown in the "Status" column, it means that the document is paused.

4 Click the document name you want to cancel.

5 From the [Document] menu, click on [Cancel Printing].

The selected documents are cleared from the queue.

6 Press the【JobReset】key of your machine's operation panel.

This clears data of the print job.

7 Press the【Online】key of your machine's operation panel.

The foreground and background of the【Online】on the panel display is reversed, and Ready appears on the panel display.

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Error & Status Messages on the Operation Panel

Messages	Description	Comments
Ready	The printer is Online and ready to make a print.	If you want to change into Offline mode, press【Online】.
Offline	The printer is Offline.	If you want to change into Online, press the reversed【Online】.
Please Wait.	The printer is warming up or processing internally.	Wait for the machine to get ready.
Network Board Firmware downloading….	The New NIB 450–E firmware is being downloaded.	Wait until it is downloaded.
Engine HDD is full. Sort uncompleted.	Engine HDD Full occurred during the current collate operation.	The current collation ends and the pages that are already on the disk are printed without the collation. This message remains until the next print job begins.
Empty Hole Punch receptacle	The Punch Trash got full during the current punching job.	Punching cannot be made though the print job continues. Dump the punch trash. This message remains until the next print job begins.
Memory Error. Only 1 set can be output.	An Engine HDD error occurred during the current collate operation.	The print job can be completed with only one output copy of the document. This message remains until the next print job begins.
Add Staples	The staples are running out during the current stapling job.	The stapling is being continued, even if this message appears. This message remains until the next print job which doesn' t require stapling begins.
Network Board Initializing…	The NIB 450–E firmware is being initialized.	Wait until it is initialized.

Messages	Description	Comments
Going Offline	The machine is shifting from Online to Offline.	Wait until it shifts to Offline.
The job has been Reset.	The current job has been reset.	
Functional Problem SC2000	A controller diagnostic error or a controller exception error occurred while the power is on. The printer controller has some problems on the hardware.	Turn the main switch off, and then back on. If the error appears again, please call service. Even if this error occurs, other functions (Copy and Fax) are still available.
Printer HDD Error Printer HDD cannot be used.	A controller disk error is detected while the power is on.	Press **【Continue】** after confirming the error, and the printer will start without the controller disk capability.
Printer HDD Error Press Reset to cancel the current job.	A controller disk error is detected while a macro or font is being downloaded from the host to the printer controller.	Press **【Reset】** to cancel the current job. If this error often occurs , change the disk.
Parallel communication Error	A parallel communication error occurred during the print job via the parallel port.	Press **【Reset】** to cancel the print job, and check the parallel communication settings again.
Network failure.	Network communication is not available. An installed network card fails to correctly establish communication with the network.	Press **【Continue】** and check the network settings, and the printer will start without the network capability. Even if a network card is installed, no error will occur when it isn't plugged into a network connection.

Messages	Description	Comments
Print overrun	A print overrun occurred on a file being printed. Only part of the data on the page will be printed, and the print job is suspended.	To ignore this error, press 【Continue】, and the print job will be resumed. To cancel the print job, press 【Reset】. After a few seconds without any key press, the print job will be canceled automatically. To print the image correctly, add memory to the machine, or reduce the resolution of the image and re-send the print job.
Memory overflow	Memory overflow occurred during the print job. After part of the data on the page is printed, the print job is suspended. This is because the emulation language sent a file too complex for the printer to interpret with the available memory, or there isn't enough memory space to download the fonts.	To cancel the print job, press 【Reset】. After a few seconds without any key press, the print job will be canceled automatically. To print the image correctly, add memory to the machine. This message remains until the next print job.
Printer HDD is full.	A controller disk becomes full while downloading a macro or font from the host to the printer controller.	To cancel the print job, press 【Reset】. After a few seconds without any key press, the print job will be canceled automatically. To execute the operation correctly, clear room on the disk partition priority.
Output tray is full.	The specified output tray of the print job is full, and the print job is suspended.	Remove the output from the output tray, and the print job will be resumed automatically.

Messages	Description	Comments
<xxx> Tray is not available.	Something is wrong with the specified input tray. The print job is suspended.	Press【Reset】to cancel the current job. After a few seconds without any key press, the print job will be canceled automatically.
<xxx> is not set correctly.	The specified input tray is not set correctly.	Close the specified input tray, and the print job will be resumed automatically.
Open Duplex Unit side tray, or press...	The cover of the Duplex unit is not opened when the paper size of duplex printing is one of the following. 11×17, $8^1/_2 \times 14$, A3, B4, $8^1/_4 \times 13$, 8×13, $8^1/_2 \times 13$	Open the Duplex unit cover, and the print job will be resumed automatically. Press【Reset】to cancel the current job. After a few seconds without any key press, the print job will be canceled automatically.
<Paper Out Icon> Add paper	There is no paper in the specified input tray, although the paper size specified from the host and that from the panel display are the same. The print job is suspended.	Put the specified paper in the specified input tray, and the print job will be resumed automatically. Press【Reset】to cancel the current job. After a few seconds without any key press, the print job will be canceled automatically.
<Paper Out Icon> Add paper	The paper size specified from the host is not set in any trays, when the tray selection is set to Auto.	Put the specified paper in any of the input trays, and the print job will be resumed automatically. To continue the print job using the incorrect paper, press【Continue】. To cancel the print job, press【Reset】. After a few seconds without any key presses, the print job will be canceled automatically.

Messages	Description	Comments
<Paper Out Icon> Add paper	The paper size specified from the host and that from the panel display are different for the input tray for the current print job. The print job is suspended.	Put the specified paper in the specified tray and change the paper settings of the User Tools correctly, so the print job will be automatically resumed. To continue the print job using the incorrect paper, press **【Continue】**. To cancel the print job, press **【Reset】**. After a few seconds without any key press, the print job will be canceled automatically.
<Paper Out Icon> Add paper	No paper is detected in the Bypass Tray.	Set the specified paper in the Bypass Tray, and the print job will be resumed automatically. To cancel the print job, press **【Reset】**. After a few seconds without any key press, the print job will be canceled automatically.
Paper Misfeed has interrupted Printing.	A paper misfeed occurred, and you removed all the misfed paper. The print job is interrupted.	To cancel the print job, press **【Reset】**. To make the Jam recovery operation, press **【Continue】**.
Paper is left in Staple Tray. Open Finisher and remove paper.	Paper remains in the staple tray, though the stapling job is canceled or a new stapling job is being started.	Remove the paper from the staple tray, and the print job will be resumed automatically.

Machine Does not Print

Possible Cause	Solutions
Is the power on?	Turn on the machine.
Is the interface cable properly connected?	Connect the interface cable properly. If there are any connectors or screws, make sure they are fastened securely.
Are you using the correct interface cable?	Be sure to use the correct one. If the cable is damaged or worn, replace it with a new one.
Did you connect the interface cable after turning on the main switch?	Make sure to connect the interface cable before turning on the main switch.
Is your machine Online?	Bring it Online by pressing the【Online】button.
Is the specified paper set?	Place the specified paper in any of the input trays.
Are there any error messages on the panel display?	Check the error message, and do the required action.
Does the indicator above the Printer key stay red?	Check the error message, and do the required action.
Is the Data-in Indicator blinking or lit?	If it is not, the data doesn't reach the machine. Check the printer cable connection. Also make sure that the printer port settings are correct.
Can you print a configuration page?	If you can't, check the printer cable connection. Also make sure that the printer port settings are correct.
Can you make a test print?	If you can't, your machine might be out of order. Consult your local service personnel.

Other Printing Problems

Problem	Action
Image is printed on the reverse side of the paper.	Set the paper upside down.
Multiple pages are fed through the printer at once.	Remove all the paper from the tray and fan them gently.
Paper misfeeds occur frequently.	Check the paper size settings. Use the recommended paper. Avoid using curled, folded, or wrinkled paper, perforated paper, or glossy paper.
Operation panel error message stays on after removing the misfed paper.	Paper misfeed message will remain until the front cover is opened and then closed. Open the front cover and close it.
It takes a long time for the printer to start printing.	The machine might be in Energy Saver mode or Low Power mode, which requires more time for warming up and resuming the print job. If you can't wait, change the settings of Low Pwr. Shift Time and Low Power Timer.
It takes too much time to complete the print job.	The data is so large or complex that it takes time to process it. If the Data In indicator is blinking, the data processing is being done. Just wait until it is finished.
Windows95, NT4.0: The computer doesn't recognize the installed printer options.	If the printer is not bi-directional, specify which options you have installed using the printer driver. Refer to the HELP file of the printer driver.
Windows3.1: The printer can't send the print job.	The memory buffer might be full. Set the Print Manager to “OFF”, or make the time-out setting longer.

Problem	Action
Desired tray isn't used for the output.	Check the tray of the Finisher or the Mailbox. Even if "Internal Tray" is specified as the Output tray, the paper whose horizontal size to the machine is 300mm or longer will be delivered to "Finisher Proof" or "Mailbox Proof" tray. With the optional 3000-sheet finisher installed, it will be automatically delivered to the “Finisher Proof” tray. With the optional Mailbox and the optional 3000-sheet finisher installed, it will be automatically delivered to the “Mailbox Proof” tray.

Specifications

This section contains the electrical and hardware specifications for your printer, including the information on the options.

	Component	Specification
Basic printer	Resolution	600dpi , 400dpi, 300dpi
	Standard Centronics-compatible	**Interface:** A standard 36-pin printer cable and a parallel port on the host computer. **Note** ❒ Do not use a parallel cable that is longer than 10 feet(3 meters).
		Centronics: IEEE 1284 Level 2 compliant bi-directional parallel port
	Page description language	PCL6 , PCL5e , PostScript
	Fonts	PCL45 Font sets , PS 136 Font sets
	Hard Disk	**Storage capacity:** 1.6GB
	Memory	**DRAM SIMM module:** Standard 8MB, Up to 72MB

	Component	Specification
Options	Mailbox	**Weight:** 37kg , 82lb
		Dimension (W×D×H): 600 × 545 × 980 mm 2.75" × 3.9" × 0.3"
		Number of trays: 9bins , 1Proof Tray
		Paper weight: Bin : 60 to 90g / m^2 , 16 to 24lb Proof: 52 to 157g / m^2 , 14 to 42lb
		Paper capacity: Bin: 100sheet per tray (A4□, $8^1/_2$"×11"□, 80g / m^2) / 70sheets per tray (Others) Proof: 500sheet per tray (A4□, $8^1/_2$"×11"□, 80g / m^2) / 300sheets per tray (Others)
		Power consumption: 48W
	Network	**topology:** Ethernet , 10BaseT / 100BaseTX
	Protocol	TCP / IP, IPX / SPX , EtherTalk for Macintosh
	Postscript® capability	PostScript® 3™

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