

9757

Printer Driver User's Manual

For use with Imagistics and Pitney Bowes DL460/550 copier/printers.

Microsoft® Windows®95

Microsoft® Windows®98

Microsoft® Windows®2000

Microsoft® Windows®NT4.0

Welcome

Thank you for purchasing the controller.

This Operator's Manual explains how to run print cycles on the machine, to which the controller is connected. It also gives precautions that you should review before attempting to actually use the controller. So, first read this manual carefully and thoroughly; then, keep it close at hand so you can refer to it whenever it becomes necessary.

When operating the controller and machine, follow the instructions given in this manual and in the one for the machine. Do not attempt to touch any part that is not covered in these manuals. Never attempt to disassemble or remodel any pieces of equipment, either, to prevent possible hazardous conditions.

Some of the screens shown in this manual may look different from what you will view in actual applications.

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For the U.S.A. Users

FCC Part 15-Radio Frequency Devices

WARNING

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The design and production of this unit conform to FCC regulations, and any changes or modifications must be registered with the FCC and are subject to FCC control. Any changes made by purchaser or user without first contacting the manufacturer will be subject to penalty under FCC regulations.

FCC-F02

This device must be used with shielded interface cables. The use of non-shielded cables is likely to result in interference with radio communications and is prohibited under FCC rules.

For Canada Users

Interference-Causing Equipment Standard (ICES-003 Issue 3)

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

IC-F03

Only for the area of the European Union.

CE Marking (Declaration of Conformity)

This product complies with the following EU directives:

89/336/EEC, 73/23/EEC and 93/68/EEC directives.

This declaration is valid for the area of the European Union.

This device must be used with shielded interface cables. The use of non-shielded cables is likely to result in interference with radio communications and is prohibited under EU directives.

Other countries

WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

This device must be used with shielded interface cables. The use of non-shielded cables is likely to result in interference with radio communications and is prohibited under CISPR 22 rules and local rules.

Contents

Chapter1 Before Using the Controller

1. Features of the Controller
 - Features of the Controller p.1-2
 - Administrative Functions p.1-6
2. Configuration
 - Configuration p.1-7
3. Connecting the Controller
 - Connecting the Controller p.1-8
4. Settings Made on the Machine
 - Priority Device p.1-9
 - On Line / Ready p.1-9
5. Installing the Printer Drivers
 - Installing Various Printer Drivers p.1-10

Chapter2 Installing the Printer Driver

1. Windows 95/98
 - Operating Environment p.2-2
 - Installation p.2-3
 - Test Print p.2-9
 - Making General Settings Before Using the Printer p.2-10
 - Displaying a Property Sheet p.2-11
 - “General” Property Sheet p.2-13
 - “Details” Property Sheet p.2-14
 - “Color Management” Property Sheet p.2-15
 - “Sharing” Property Sheet p.2-16
 - “--> 32-Bit SuperDriver Setup” Property Sheet p.2-17
2. Windows 2000
 - Operating Environment p.2-18
 - Installation p.2-19
 - Test Print p.2-26
 - Making General Settings Before Using the Printer p.2-27
 - Displaying a Property Sheet p.2-28
 - “General” Property Sheet p.2-30
 - “Sharing” Property Sheet p.2-31
 - “Ports” Property Sheet p.2-32
 - “Advanced” Property Sheet p.2-33
 - “Color Management” Property Sheet p.2-34
 - “Security” Property Sheet p.2-35
 - “Processing” Property Sheet p.2-36
3. Windows NT4.0
 - Operating Environment p.2-37

Installation	p.2-38
Test Print	p.2-44
Making General Settings Before Using the Printer	p.2-45
Displaying a Property Sheet	p.2-46
“General” Property Sheet	p.2-48
“Ports” Property Sheet	p.2-49
“Scheduling” Property Sheet	p.2-50
“Sharing” Property Sheet	p.2-51
“Security” Property Sheet	p.2-52
“Processing” Property Sheet	p.2-53

Chapter3 Property Sheets

1. Property Sheets	
Description of Each Property Sheet	p.3-2
2. “Device Options Setting” Property Sheet	
Functions of the “Device Options Setting” Property Sheet	p.3-4
“Mailbox Setting” Dialog Box	p.3-6
3. Functions that are Common to Various Property Sheets	
Functions that are Common to Various Property Sheets .	p.3-7
Functions of the “Save Easy Set Name” Dialog Box	p.3-8
4. “Setup” Property Sheet	
Functions of the “Setup” Property Sheet	p.3-9
Functions of the “Watermark” Dialog Box	p.3-13
Functions of the “Detail of Paper Source” Dialog Box ...	p.3-16
Functions of the “Detail Of Output Setting” Dialog Box	p.3-18
5. “Paper” Property Sheet	
Functions of the “Paper” Property Sheet	p.3-21
Functions of the “Edit Custom Paper” or “Custom Paper” Dialog Box	p.3-24
6. “Quality” Property Sheet	
Functions of the “Quality” Property Sheet	p.3-27
Functions of the “Halftoning” Dialog Box	p.3-30
7. “Job Management” Property Sheet	
Functions of the “Job Management” Property Sheet	p.3-31
8. “PostScript” Property Sheet	
Functions of the “PostScript” Property Sheet	p.3-33
Functions of the “Font Substitution Table” Dialog Box ..	p.3-35
Functions of the “Send Fonts As” Dialog Box	p.3-36
Functions of the “Advanced PostScript” Dialog box	p.3-37
9. “Conflicts” Dialog Box	

Functions of the “Conflicts” Dialog Box	p.3-38
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Chapter4 Convenient Functions

1. Convenient Functions	
Convenient Functions	p.4-2
2. Printing on Both Sides of the Paper	
Overview	p.4-3
Procedure	p.4-3
3. Printing More than One Copy at a Time	
Overview	p.4-6
Procedure	p.4-6
4. Specifying N-up Printing	
Overview	p.4-8
Procedure	p.4-8
5. Printing in Reduced/Enlarged Size	
Overview	p.4-10
Procedure	p.4-10
6. Printing Pages with Watermarks	
Overview	p.4-13
Procedure	p.4-13
7. Specifying Booklet Printing	
Overview	p.4-16
Procedure	p.4-16
8. Printing Pages with a Distribution Number	
Overview	p.4-18
Procedure	p.4-18
9. Using the Copy Track Function	
Overview	p.4-20
Procedure	p.4-20
10. Printing on OHP Transparencies	
Overview	p.4-22
Procedure	p.4-22
11. Adding a Cover to Each Copy Set	
Overview	p.4-25
Procedure	p.4-25
12. Using the Lock Job (Print PC Confidential) Function	
Overview	p.4-28
Procedure on the Printer Driver Side	p.4-28
Procedure on the Machine Side (Unlocking a Job)	p.4-30
Procedure on the Machine Side (Deleting a Job)	p.4-32
13. Using the Folding Function	

Overview	p.4-34
Procedure	p.4-34
14. Using the Settings Function	
Overview	p.4-38
Procedure	p.4-38
15. Confirming that the data has been transferred to the machine	
Overview	p.4-44
Procedure	p.4-44

Chapter5 Troubleshooting

1. Troubleshooting	
Unable to Print	p.5-2
Unable to Make Correct Settings / Unable to Print Exactly as Set	p.5-5
Poor Print Quality	p.5-9
Error List	p.5-10

Appendix A

1. Function Combination Matrix	
Function Combination Matrix	p.A-2
2. Number of registrations	
Number of registrations/Usable range for Easy Set	p.A-5
Number of registrations/Usable range for Watermark	p.A-6
Number of registrations/Usable range for Custom Paper	p.A-7
3. Preview Listing	
[Page Layout]	p.A-8
[Printer Figure]	p.A-12
[Setting Preview]	p.A-13
4. Specifications	
Specifications for machine body	p.A-16
Accessories	p.A-22

Appendix B

1. Glossary	
Glossary	p.B-2

Appendix C

1. INDEX	
INDEX	p.C-2

Naming of Equipment and Functions

Naming of Equipment and Functions

Different names are used between the controller and the machine to identify the same piece of equipment or the same function. Note the following.

Equipment Names

Controller	Machine
Tray	Drawer
Dup+2way Tray	2Way Paper Feed Cabinet
Dup+LCC	Large Capacity Cabinet
Duplex Cabinet	Duplexing Paper Feed Cabinet
Multi-staple Finisher	Finisher (Multi)
Single-staple Finisher	Finisher (Single)
Folding Finisher	Finisher (Folding)
Hard Disk Drive in Copier	Hard Disk Drive Kit HDD-1
Manual Feed	Intelligent Multi Bypass Tray
LCT	Large Capacity Cassette

Function Names

Controller	Machine
N-up	N in 1
Booklet Left Binding	Standard Book
Booklet Right Binding	Right Bound

Chapter 1

Before Using the Controller

1. Features of the Controller


Features of the Controller

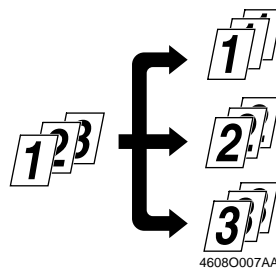
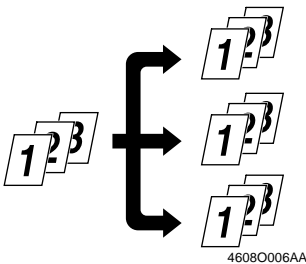
The controller is an image controller designed to use the machine as a printer, allowing you to print documents directly to the machine from a computer to which the controller is connected. The printer driver, which is used during printing, is equipped with various functions that make the most out of the features of the machine. They enable you to use the same functions as those offered by the machine. When actually running a print cycle, you can specify various functions of the machine on your computer screen.

NOTES

- When using the controller, be sure to set the machine to the On Line state.
 - Some functions offered by the machine cannot be combined, such as Staple and Hole-Punch, and some others may not be used because of a paper size involved. The functions that cannot be selected appear dimmed.
- Further, if functions that are incompatible with each other are specified, the Conflicts dialog box will appear, prompting you to change the settings. When this dialog box appears, check the details and reselect the functions to ensure function compatibility.
- Some settings, which are defined by the machine for the restricted combinations of different functions, can at times be accepted by the printer driver. If a print command is issued from the personal computer with such settings made, the machine does not produce the output correctly or abandons the job to produce nothing. Make sure that you make correct settings.

Various Printing Functions

- Makes prints that are sorted into complete sets of the originals or grouped into uncollated groups, each containing prints of one original.  p.3-22



- Prints two pages of originals on both front and back sides of a single sheet of paper. ☞ p.3-10

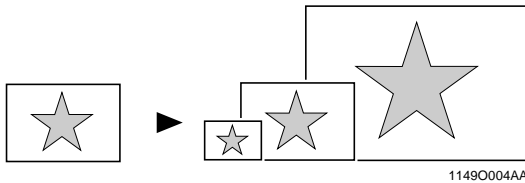


Long Edge Binding

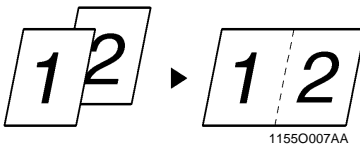


Short Edge Binding

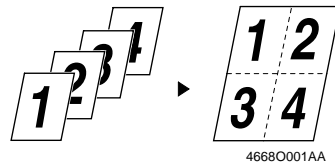
- Enlarges or reduces the image on the original. ☞ p.3-22



- Prints two pages or four pages of originals on a single sheet of paper. Maximum of 16 pages of originals can be printed on a single sheet of paper. ☞ p.3-9

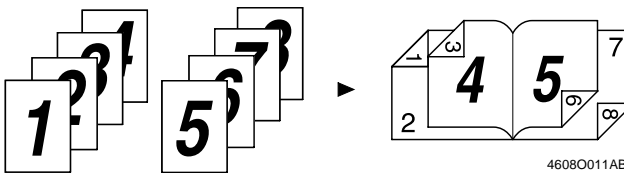


2up



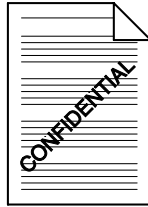
4up

- Prints four pages of originals to both front and back sides of a single sheet of paper. ☞ p.3-10



1. Features of the Controller

- Places text in the background. ↗p.3-10



4608O001AA

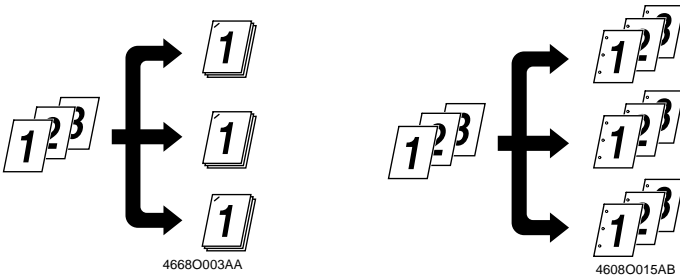
- Makes prints of complete sets of the originals, stapled together or punched for filing. ↗p.3-12



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4608O013AA

By combining Collate with other finishing capabilities, you can make complete sets of documents for immediate delivery without having to do any further processing.




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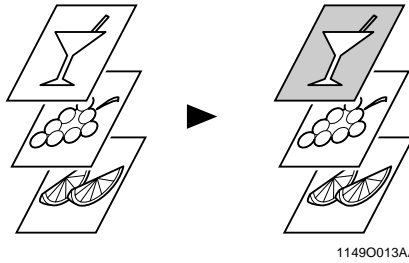
4608O015AB


- Adds a reference number (Distribution Number) to each document set during printing. ↗p.3-32

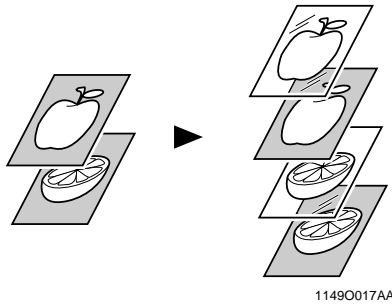



1166O114AA

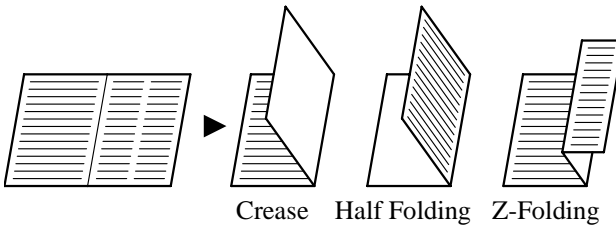
- Prints only the cover on a different type of paper (such as colored paper).  p.3-11



- Capable of printing on OHP transparencies. You can also insert interleaves, either blank or printed with the same contents as those on the OHP transparencies.  p.3-11



- Folds copies during finishing.  p.3-18



4002O021AA

1. Features of the Controller

Administrative Functions

- Different accounts can be managed for printing records, just as when using the machine as a copier.
- Printing of confidential documents may be withheld until a legitimate password is entered on the machine.

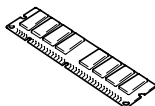
2. Configuration

Configuration

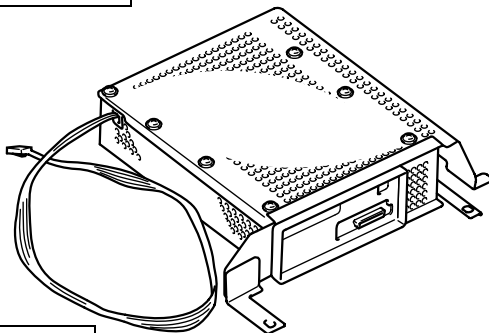
The controller may be configured with the following options.

Memory (64MB/128MB, Option)

Expands the memory capacity of Controller.



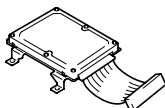
4608O018AA



4692O001AA

Controller

Allows you to use the machine as a printer controlled by your personal computer.

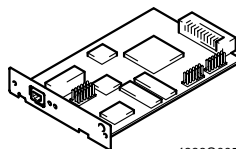


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Hard Disk Drive (Option)

For downloading PS fonts

10/100BaseT



4668O005AA

NIC Board (Option)

Allows you to use the machine as a printer in a network environment.

NOTE

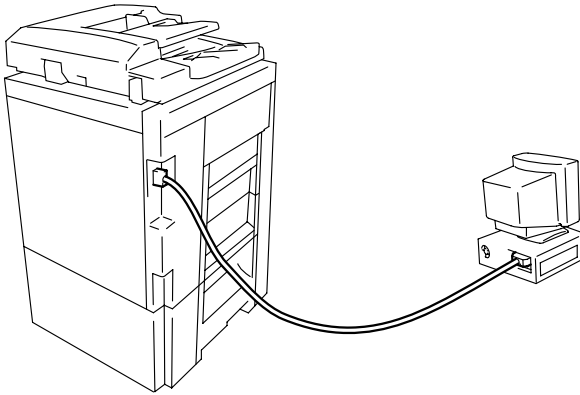
The NIC Board must be mounted to use the scanner functions.

3. Connecting the Controller

Connecting the Controller

The controller is installed inside the machine. The installation procedures are to be performed by service personnel.

The controller is connected to the computer by a printer cable or network cable. Power to the controller is supplied from the machine.



46920002AB

TIP

If you cannot print from your computer, make sure that the printer cable or network cable is connected to the corresponding connectors.

4. Settings Made on the Machine

The following functions must be set on the machine using its Utility Mode, as they relate to the controller.

Priority Device

Select the priority use of the machine, either as a copier or printer.

Copier: The machine is used as a copier.

The machine starts the print cycle only after it has received the entire data of a particular print job.

The machine can be used for copying, since it starts printing only after it has received the entire data of the job for printing. This means that more time is available to you for copying, but you have to wait for a longer time before a particular print job is done.

Printer: The machine is used as a printer.

The machine starts the print cycle before it completes receiving the entire data of a particular print job.

On receiving the data for one page, the machine starts printing, accepting no other job for copying. This means that less time is available to you for copying, but you do not have to wait long before a particular print job is done.

On Line / Ready

On Line key

This function is the same as that available in ordinary printers as On Line/Off Line.

Select On Line normally.

A lit lamp indicates that the machine is in the On Line mode.

Ready Lamp

Data can be transferred while this lamp stays lit up.

The lamp remains blinking while data is being transferred.

5. Installing the Printer Drivers

Installing Various Printer Drivers

To make 100% use of the functions offered by the machine mounted with the controller, install the attached printer drivers in your computer. The controller is furnished with the following printer drivers:

- PCL6 printer driver for Windows 95
- PCL6 printer driver for Windows 98/2000
- PCL6 printer driver for Windows NT4.0
- PS printer driver for Windows 95/98
- PS printer driver for Windows 2000
- PS printer driver for Windows NT4.0
- PPD file for Macintosh
- PS print utility for Linux
(Redhat, SuSE, Turbo, Open)

Install the printer driver suitable for the operating system that runs on your computer. For installation procedures, see the relevant page as detailed below:

Installing the Windows printer driver:

- Windows 95/98 ↗ p.2-2
- Windows 2000 ↗ p.2-18
- Windows NT4.0 ↗ p.2-37

Installing the Macintosh PPD file:

See the Operator's Manual for Macintosh.

Installing the Linux print utility:

See the Operator's Manual for Linux.

Chapter 2

Installing the Printer Driver

1. Windows 95/98

Operating Environment

This section explains the required environment for the printer driver.

Before installing the printer driver, check that your computer meets the following requirements. If it doesn't, the printer driver may not function properly.

Personal computer		IBM PC or compatible with Pentium 200MHz or higher CPU
Operating system		Windows 95 (English) or Windows 98 (English)
Memory		64MB or more
I/O interface	Parallel	Centronics interface (Conforming to IEEE1284)
	Network	10/100BaseT (UTP)
Free space on hard disk		10MB or more (PCL6) 2MB or more (PS)

- Windows 2000
For the operating environment and installation procedure for the Windows 2000 printer driver, see p.2-18.
- Windows NT 4.0
For the operating environment and installation procedure for the Windows NT 4.0 printer driver, see p.2-37.

Installation

This section explains the installation procedure for the Windows 98 printer driver.

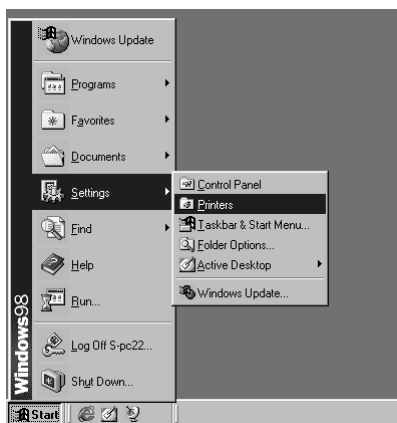
NOTE

Before starting to install the printer driver, be sure first to quit all other applications.

TIP

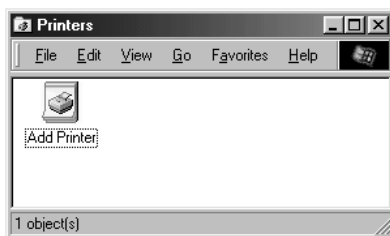
The following procedure assumes that the machine is a Digital Copier 55cpm and that the printer driver is PCL6: Read the specific proper names accordingly if the machine is a model other than the Digital Copier 55cpm and if, for example, the OS is Windows 95 and the printer driver is PS.

1. Click the [Start] button. From the menu that appears, select “Settings,” then click “Printers.”



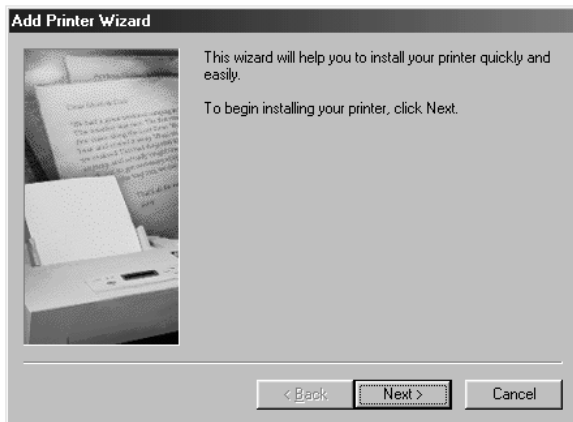
4668P001CA

2. The Printers window will appear. Double-click the “Add Printer” icon.



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3. The “Add Printer Wizard” will appear. Click the [Next>] button.



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4. A window will appear, asking how the printer is to be connected. If your computer is directly connected to the machine, select “Local printer” and then click the [Next>] button.

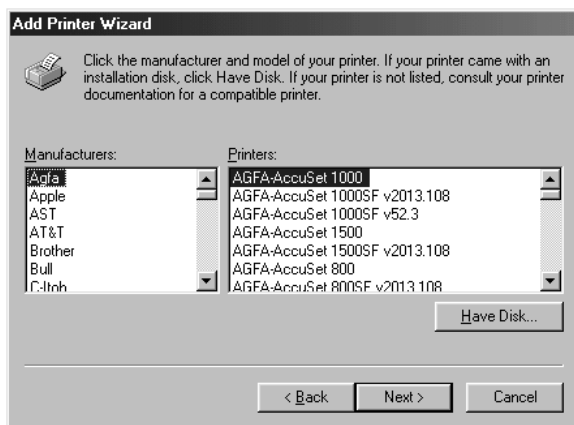


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NOTES

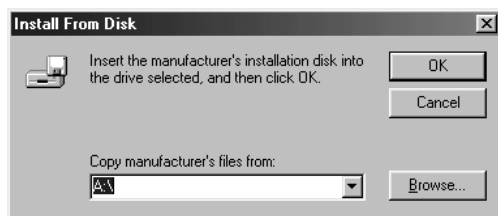
- When installing the printer driver in a computer connected to the machine via a network, be sure to consult the network administrator.
- This is a request to be made of the network administrator. To install the printer driver in a computer connected to a network, select “Network printer” and click the [Next] button. Then, a window will appear prompting you to enter the network path: Enter the path.

5. A window will appear, prompting you to select the manufacturer and model of your printer. Click the [Have Disk...] button on the lower right part of the screen.



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6. The “Install From Disk” dialog box will appear. Install the controller driver CD-ROM that is included with the controller in the CD-ROM drive of your computer.



4668P006CA

1. Windows 95/98

7. Type the drive name in the “Copy manufacturer’s file from” box and click the [OK] button.

To install PCL6 with Windows 95: I:\Windows\Printer Driver\PCL6\W95

To install PS with Windows 95: I:\Windows\Printer Driver\PS\W98_W95

To install PCL6 with Windows 98: I:\Windows\Printer Driver\PCL6\W98Nt2k

To install PS with Windows 98: I:\Windows\Printer Driver\PS\W98_W95

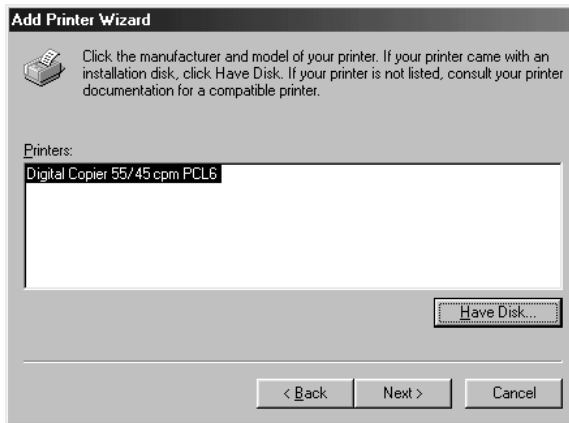
(As an example, the CD-ROM drive is drive I.)



4668P007CB

8. A “Printers” list appears.

Select the driver to be installed and click the [Next>] button.

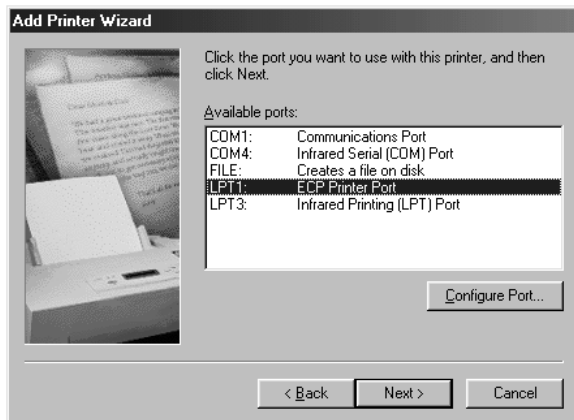


4692P127CB

TIP

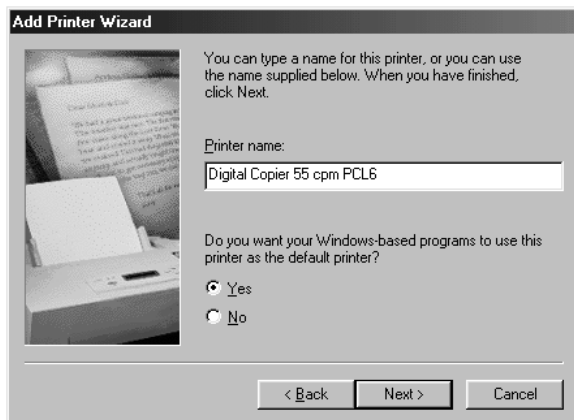
PS driver is different for each model: Select according to model of the machine used.

9. A window that prompts you to select the port will appear. Select the port (normally “LPT:”) to which the printer cable has been connected, then click the [Next>] button.



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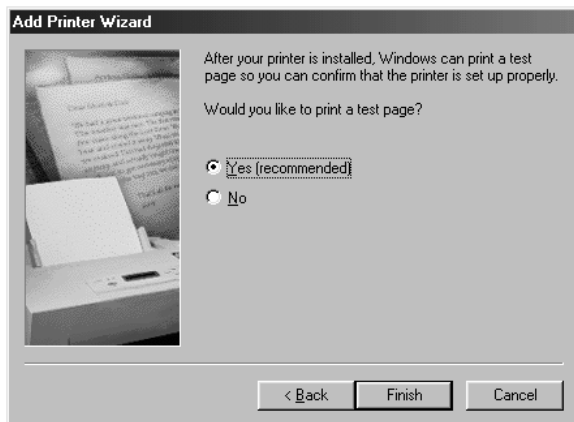
10. A window that asks you to confirm the printer name will appear. Check the printer name. If you want to designate this printer as the default printer, select “Yes.” (In this example, the printer name is changed to “Digital Copier 55cpm PCL6.”) Click the [Next>] button.



4692P128CA

1. Windows 95/98

11. A screen that allows you to select printing of a test page will appear. If you want to print a test page, select “Yes (recommended).” If you elect not to, select “No.” It is recommended that a test page be printed to ensure that the printer driver has been installed properly. Now, click the [Finish] button.

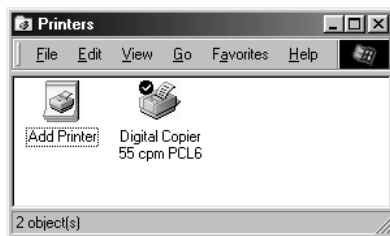


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12. Installation will start.

When all the files have been copied from the floppy disk, the corresponding icon will be added to the “Printers” window.

This completes the installation.

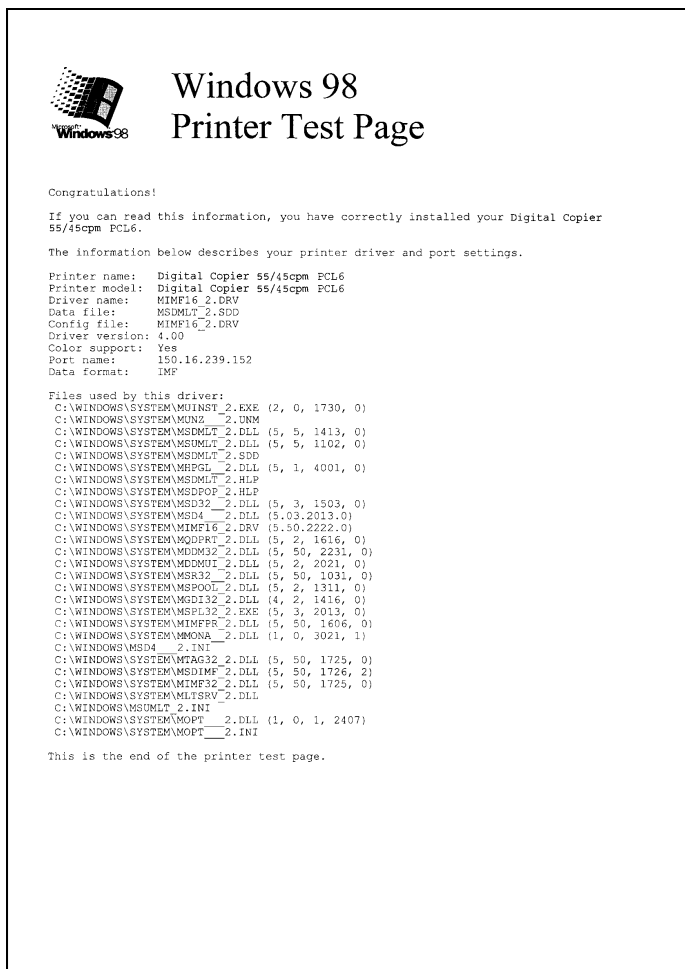


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Test Print

If “Yes [recommended]” has been selected in step 11 to specify printing of a test page, test printing starts. Check that the printer name is correct.

Here is a typical test print page.



Making General Settings Before Using the Printer

The printer driver requires setting of items that are common to all print jobs, including the port to which the printer cable is connected and optional devices configured with the machine. These settings must be made using property sheets available from the Properties command after the printer driver has been installed or whenever the operating environment is changed.

The most common settings were made when the printer driver was installed, meaning that you do not usually bother to change them. Some items must, however, be changed in the following cases.

Cases where changes are necessary	Applicable property sheets	Ref. page
<ul style="list-style-type: none"> You want to add a comment to distinguish the printer from others 	“General”	p.2-13
<ul style="list-style-type: none"> The computer’s connecting port has been changed You want to change the conditions for the display of a timeout error You want to designate a port to which the machine is connected via a network (this setting must be made on a computer connected to the machine via a network) 	“Details”	p.2-14
<ul style="list-style-type: none"> This setting is not related to printing. 	“Color Management”	p.2-15
<ul style="list-style-type: none"> You want to share the machine with other computers connected to the same network (this setting must be made on the computer directly connected to the machine) 	“Sharing”	p.2-16

For details of “Device Options Setting”, see Chapter 3.

Displaying a Property Sheet

There are two different steps to take to display a property sheet. The contents of a particular property sheet slightly differ depending on how you access it. Select the appropriate one according to your need.

- (1) To display a property sheet from the printer folder
- (2) To display a property sheet from an application menu

Below are the detailed procedures for each approach.

Displaying a Property Sheet from the Printer Folder

1. Click the [Start] button and select “Settings.” Then, click “Printers.”
2. Click the icon of “Digital Copier 55cpm PCL6.”
3. Select “Properties” from the menu that will appear. This shows the property sheet.

It allows you to set the environment in which you will use the printer. The settings made through this method are valid in all applications.

TIP

With PCL6, only OS standard property is displayed. When “--> 32bit Super Drive Setup” tab is clicked, exclusive property will be displayed.

Displaying a Property Sheet from an Application Menu

1. Select [Print...] from the [File] menu of the application.
2. Make sure that the “Name” of the “Printer” is “Digital Copier 55cpm PCL6”: If “Digital Copier 55cpm PCL6” is not listed, click [▼] and, from the menu that will then appear, select “Digital Copier 55cpm PCL6.”
3. Click the [Properties] button. This shows the property sheet.

This method allows you to set the number of copies and paper for each document. Note that the settings made on the property sheet accessed through the application are valid only for that particular application.

1. Windows 95/98

TIPS

- *To set the Device Options setting, which need not be changed unless device is changed, open it from the printer folder to set.*
 - *To show a property sheet other than Setup, click the corresponding tab located on the top part of the screen.*
-

NOTE

The steps to display a property sheet may be different depending on the application. Follow the correct procedure according to the application. The procedure above is based on the application WordPad.

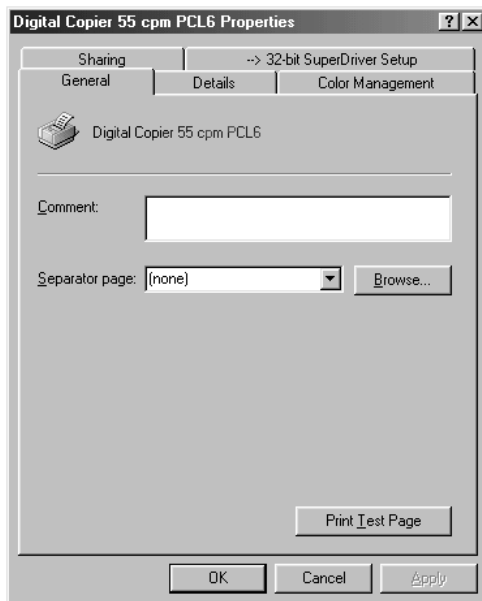
“General” Property Sheet

This property sheet is commonly available to the Windows 95/98-based printer drivers.

There is no need to make any changes in settings for ordinary operating environments. See Windows 95/98 Help for more details.

NOTE

If “Separator page” is specified, a separator page can be inserted between multiple print jobs.

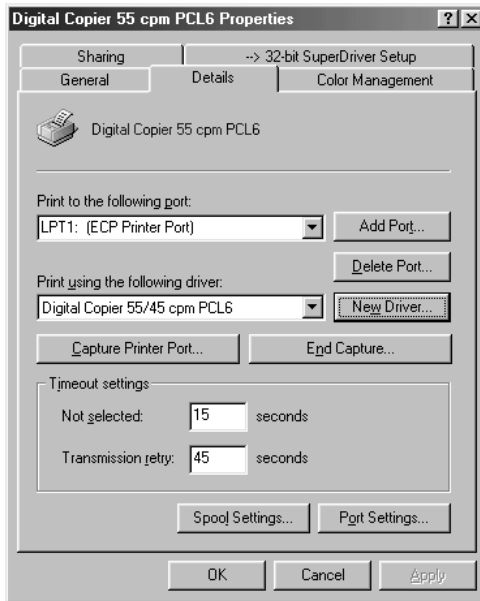


4692P130CA

“Details” Property Sheet

This property sheet is commonly available to the Windows 95/98-based printer drivers.

There is no need to make any changes in settings for ordinary operating environments. See Windows 95/98 Help for more details.

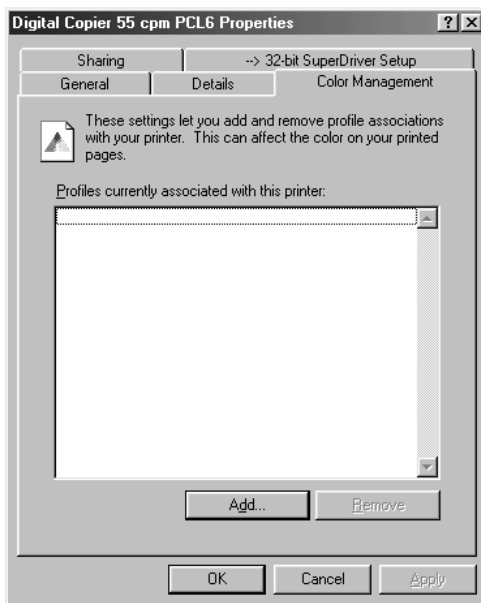


4692P131CA

“Color Management” Property Sheet

This property sheet is displayed only when PCL6 driver is used.

It is not necessary to made any setting for normal use.



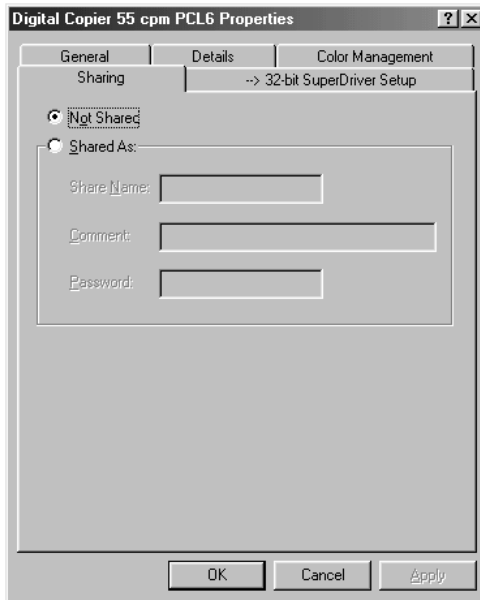
4692P132CA

“Sharing” Property Sheet

This property sheet is commonly available to the Windows 95/98-based printer drivers.

It allows you to make settings for sharing a printer among different users. It is displayed only when a Windows 95/98-based printer is being used over the network.

For more details, see Windows 95/98 Help for more details.

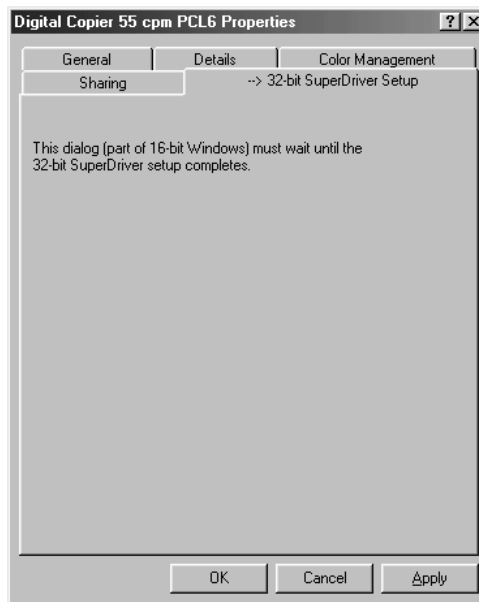


4692P133CA

“--> 32-Bit SuperDriver Setup” Property Sheet

This property sheet is used in common with Windows 95/98 printer drivers: It will be displayed only when PCL6 driver is used.

This property sheet can be displayed by clicking “--> 32bit Super Drive Setup” tab. However, Setup, Paper, Quality, Device Options Setting and Job Management properties will be displayed immediately. See Chapter 3 for details of setting for each tab.



4692P134CA

TIP

This property sheet is not displayed when PS driver is used. However, Setup, Paper, Quality, Device Options Setting and Job Management tabs are displayed.

2. Windows 2000

Operating Environment

This section explains the required environment for the printer driver.

Before installing the printer driver, check that your computer meets the following requirements. If it doesn't, the printer driver may not function properly.

Personal computer		IBM PC or compatible with Pentium 200MHz or higher CPU
Operating system		Windows 2000 (English)
Memory		64MB or more
I/O interface	Parallel	Centronics interface (Conforming to IEEE1284)
	Network	10/100BaseT (UTP)
Free space on hard disk		10MB or more (PCL6) 2MB or more (PS)

- Windows 95/98
For the operating environment and installation procedure for the Windows 95/98 printer driver, see p.2-2.
- Windows NT 4.0
For the operating environment and installation procedure for the Windows NT 4.0 printer driver, see p.2-37.

Installation

This section explains the installation procedure for the Windows 2000 printer driver.

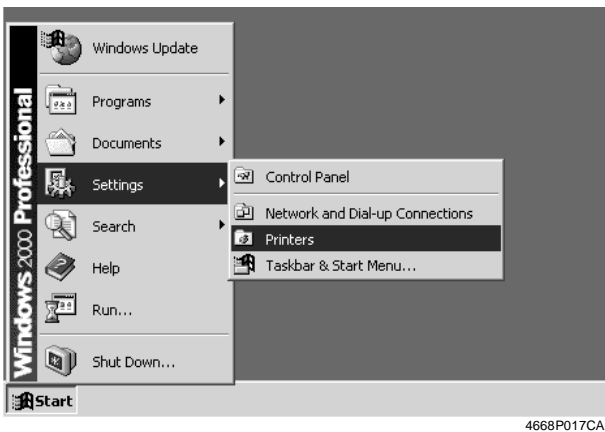
NOTE

Before starting to install the printer driver, be sure first to quit all other applications.

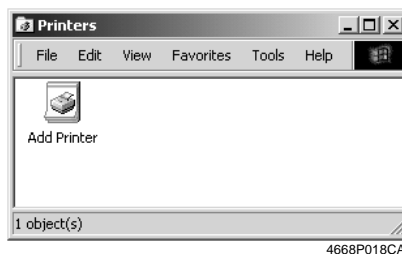
TIP

The following procedure assumes that the machine is a Digital Copier 55cpm and that the printer driver is PCL6: Read the specific proper names accordingly if the machine is a model other than the Digital Copier 55cpm and if, for example, the printer driver is PS.

1. Click the [Start] button. From the menu that appears, select “Settings,” then click “Printers.”



2. The Printers window will appear. Double-click the “Add Printer” icon.



2. Windows 2000

3. Start the Add Printer Wizard.
Click the [Next>] button.

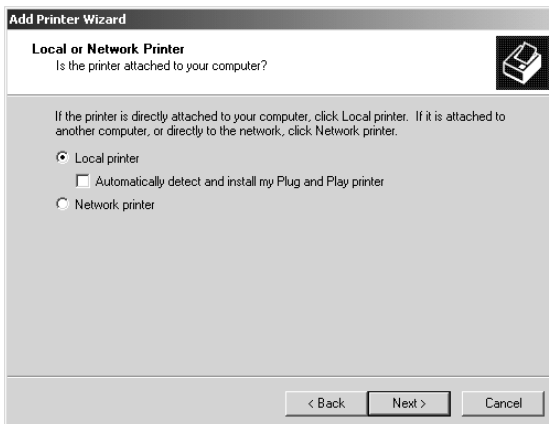


4668P019CA

4. A screen that allows you to select the type of connection made of the printer will appear. If the printer is directly connected to the computer, select “Local Printer” and click the [Next>] button.

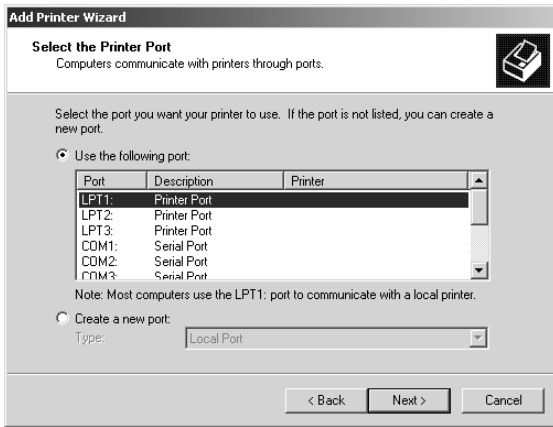
NOTE

When installing the printer driver in a computer connected to the machine via a network, be sure to consult the network administrator.



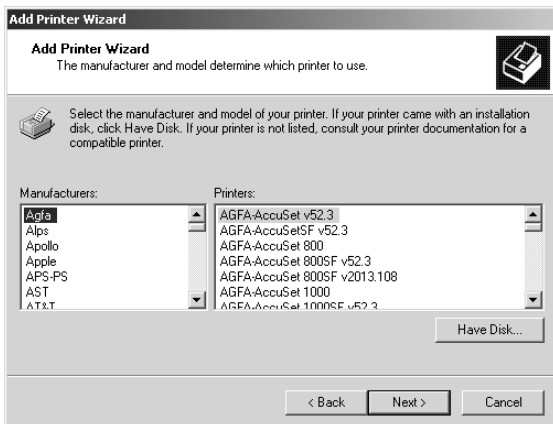
4668P020CA

5. A window the prompts you to select the port will appear. Select the name of the port to be used and click the [Next>] button.



4668P021CA

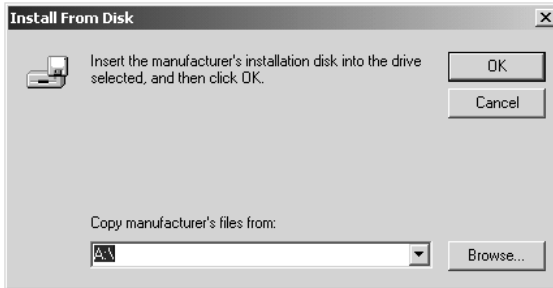
6. A window will appear, prompting you to select the manufacturer and model of your printer. Click the [Have Disk...] button on the lower right part of the screen.



4668P022CA

2. Windows 2000

- The “Install From Disk” dialog box will appear. Install the controller driver CD-ROM that is included with the controller in the CD-ROM drive of your computer.



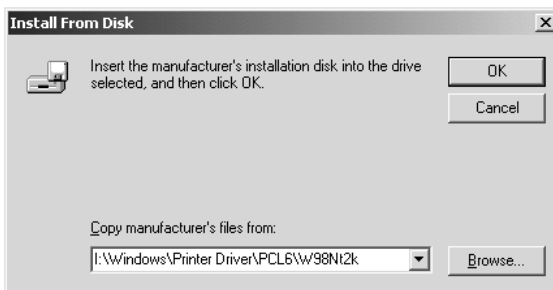
4668P023CA

- Type the drive name in the “Copy manufacturer’s file from” box and click the [OK] button.

To install PCL6: I:\Windows\Printer Driver\PCL6\W98Nt2k

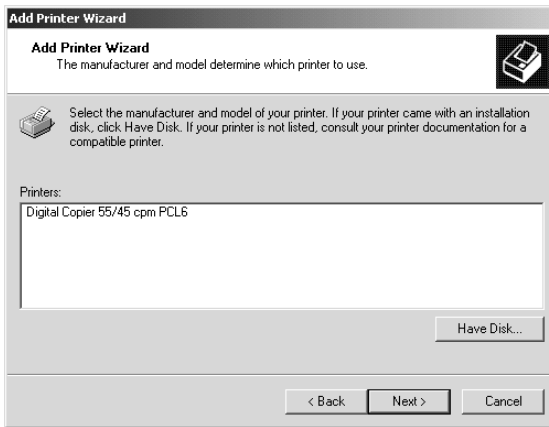
To install PS: I:\Windows\Printer Driver\PS\W2k

(As an example, the CD-ROM drive is drive I.)



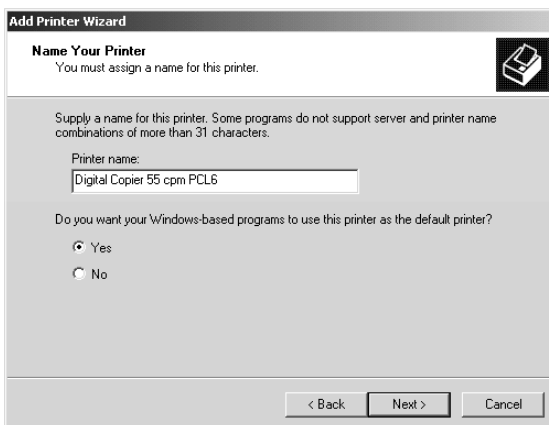
4668P024CB

9. A “Printers” list appears.
Select the driver to be installed and click the [Next>] button.



4692P135CA

10. A window that asks you to confirm the printer name will appear. Check the printer name. If you want to designate this printer as the default printer, select “Yes.” (In this example, the printer name is changed to “Digital Copier 55cpm PCL6.”)
Click the [Next>] button.



4692P136CA

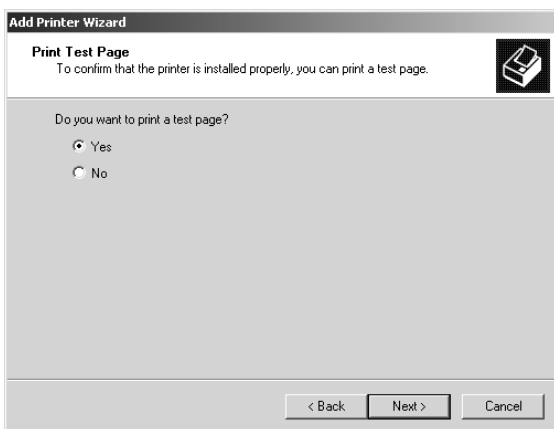
2. Windows 2000

11. A screen that allows you to select whether to share the printer or not. If you share the printer with other users, select “Shared” and type the share name in the box to the right of “Share Name.” If not, select “Do not share this printer.” Click the [Next>] button.



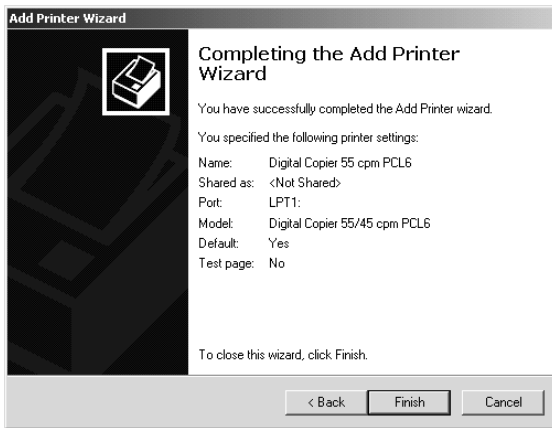
4668P027CA

12. A screen that allows you to select printing of a test page will appear. If you want to print a test page, select “Yes.” If you elect not to, select “No.” It is recommended that a test page be printed to ensure that the printer driver has been installed properly. Click the [Next>] button.



4668P028CA

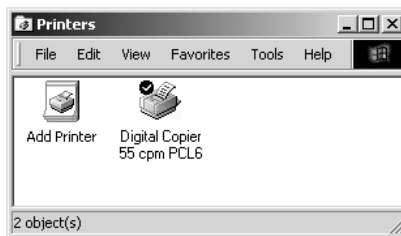
13. As the last step, click the [Finish] button.



4692P137CA

14. Installation will start.

When all the files have been copied from the floppy disk, the corresponding icon will be added to the “Printers” window. This completes the installation.



4692P138CA

2. Windows 2000

Test Print

If “Yes” has been selected in the step to specify printing of a test page, test printing starts. Check that the printer name is correct.

Here is a typical test print page.



Windows 2000 Printer Test Page

Congratulations!

If you can read this information, you have correctly installed your Digital Copier 55/45cpm PCL6 on MDQA-N03.

The information below describes your printer driver and port settings.

```
Submitted Time: 6:18:52 PM 3/7/2001
Machine name: MDQA-N03
Printer name: Digital Copier 55/45cpm PCL6
Printer model: Digital Copier 55/45cpm PCL6
Color support: No
Port name(s): IP 150.16.239.152
Data format: IMF
Share name:
Location:
Comment:
Driver name: MIMFNS_2.DLL
Data file: MSDMLT_2.SDD
Config file: MNISUI_2.DLL
Help file: MSDMLT_2.HLP
Driver version: 5.05
Environment: Windows NT x86
Default datatype: RAW

Additional files used by this driver:
C:\WINNT\System32\spool\DRIVERS\W32X86\3\MSDMLT_2.DLL (5, 5, 1218, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\MSUMLT_2.DLL (5, 5, 1102, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\WHFPLT_2.DLL (5, 1, 4001, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\MSBPPPT_2.HLP
C:\WINNT\System32\spool\DRIVERS\W32X86\3\MODPPT_2.DLL (5, 2, 1616, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\MSD32_2.DLL (5, 3, 1503, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\MDM32_2.DLL (5, 50, 2231, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\MDMGI_2.DLL (5, 2, 2021, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\MSR32_2.DLL (5, 50, 1031, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\MSPOOL_2.DLL (5, 2, 1311, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\MGIS32_2.DLL (4, 2, 1416, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\MSPL32_2.EXE (5, 3, 2013, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\WNTUM4_2.DLL (5, 0, 508, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\WMDINT_2.DLL (5, 50, 1726, 2)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\MMONM_2.DLL (1, 0, 3021, 1)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\WIMFPR_2.DLL (5, 50, 1606, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\WTAG32_2.DLL (5, 50, 1725, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\WOPPT_2.DLL (1, 0, 1, 2407)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\WOPPT_2.INI
C:\WINNT\System32\spool\DRIVERS\W32X86\3\WUNST_2.EXE (2, 0, 1730, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\WCMW_2.DLL (5, 50, 1027, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\WICM_2.DLL (5, 50, 1027, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\WIME32_2.DLL (5, 50, 1725, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\3\WUN2_2.UMM
C:\WINNT\System32\spool\DRIVERS\W32X86\3\WLFPRV_2.DLL
C:\WINNT\System32\spool\DRIVERS\W32X86\3\MSUMLT_2.INI
```

This is the end of the printer test page.

Making General Settings Before Using the Printer

The printer driver requires setting of items that are common to all print jobs, including the port to which the printer cable is connected and optional devices configured with the machine. These settings must be made using property sheets available from the Properties command after the printer driver has been installed or whenever the operating environment is changed.

The most common settings were made when the printer driver was installed, meaning that you do not usually bother to change them. Some items must, however, be changed in the following cases.

Cases where changes are necessary	Applicable property sheet	Ref. page
<ul style="list-style-type: none"> You want to add a comment to distinguish the printer from others 	“General”	p.2-30
<ul style="list-style-type: none"> You want to share the machine with other computers connected to the same network (this setting must be made on the computer directly connected to the machine) 	“Sharing”	p.2-31
<ul style="list-style-type: none"> The computer’s connecting port has been changed You want to change the conditions for the display of a timeout error You want to designate a port to which the machine is connected via a network (this setting must be made on a computer connected to the machine via a network) 	“Ports”	p.2-32
<ul style="list-style-type: none"> You want to restrict use condition of printer. You want to change settings in spool condition. You want to change OS-dependent settings. 	“Advance”	p.2-33
<ul style="list-style-type: none"> This setting is not related to printing. 	“Color Management”	p.2-34
<ul style="list-style-type: none"> You want to restrict access to the machine You want to check the accounts of the machine users 	“Security”	p.2-35
<ul style="list-style-type: none"> This setting is not related to printing. 	“Processing”	p.2-36

For the details of “Device Options Setting,” see Chapter 3.

Displaying a Property Sheet

You have two different steps to take to display a property sheet. The contents of a particular property sheet slightly differ depending on how you access it. Select the appropriate one according to your need.

- (1) To display a property sheet from the printer folder
- (2) To display a property sheet from an application menu

Below are the detailed procedures for each approach.

Displaying a Property Sheet from the Printer Folder

1. Click the [Start] button and select “Settings.” Then, click “Printers.”
2. Click the icon of “Digital Copier 55cpm PCL6.”

<To display the General sheet>

3. Click “Properties” from the [Printer] menu.

<To display Printing Preferences sheet>

3. Click [Printing Preferences...] from the [Printer] menu. This opens the [Digital Copier 55cpm PCL6 Printing Preferences].

It allows you to set the environment in which you will use the printer. The settings made through this method are valid in all applications.

Displaying a Property Sheet from an Application Menu

1. Select [Print...] from the [File] menu of the application.
2. Make sure that the “Select Printer” of the “General” is “Digital Copier 55cpm PCL6”: If “Digital Copier 55cpm PCL6” is not listed, click [▼] and, from the menu that will then appear, select “Digital Copier 55cpm PCL6.”

This method allows you to set the number of copies and paper for each document. Note that the settings made on the property sheet accessed through the application are valid only for that particular application.

TIPS

- *To set the Device Options setting, which need not be changed unless device is changed, open it from the printer folder to set.*
 - *To show a property sheet other than Setup, click the corresponding tab located on the top part of the screen.*
-

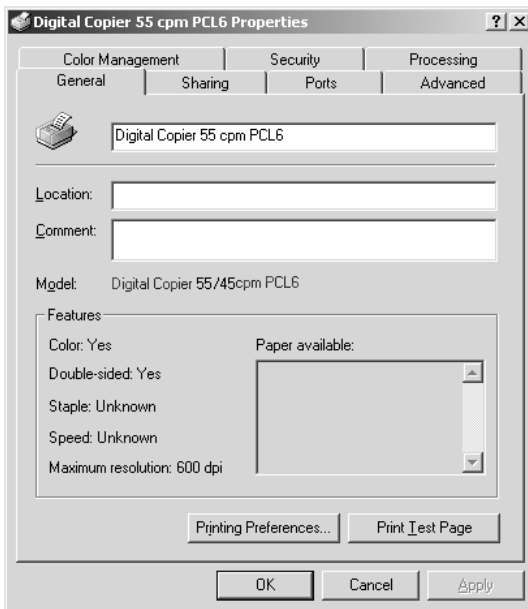
NOTES

- *The steps to display a property sheet may be different depending on the application. Follow the correct procedure according to the application. The procedure above is based on the application WordPad.*
 - *With PostScript, the contents are different between when the property sheet is accessed from Print Manager and when it is accessed from an application.*
-

“General” Property Sheet

This property sheet is commonly available to the Windows 2000-based printer drivers.

There is no need to make any changes in settings for ordinary operating environments. See Windows 2000 Help for more details.

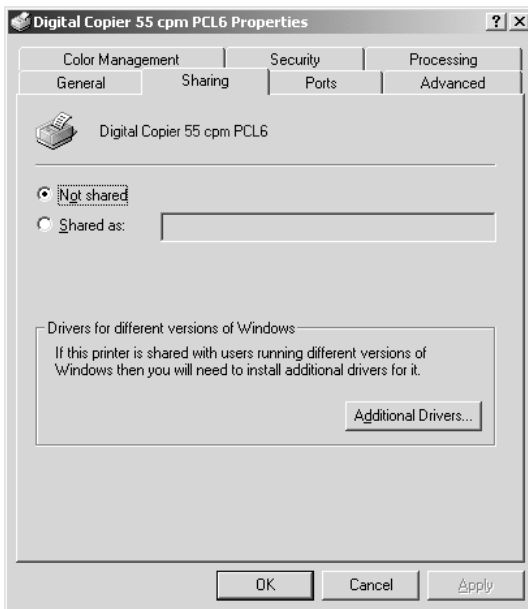


4692P139CA

“Sharing” Property Sheet

This property sheet is commonly available to the Windows 2000-based printer drivers.

There is no need to make any changes in settings for ordinary operating environments. See Windows 2000 Help for more details.

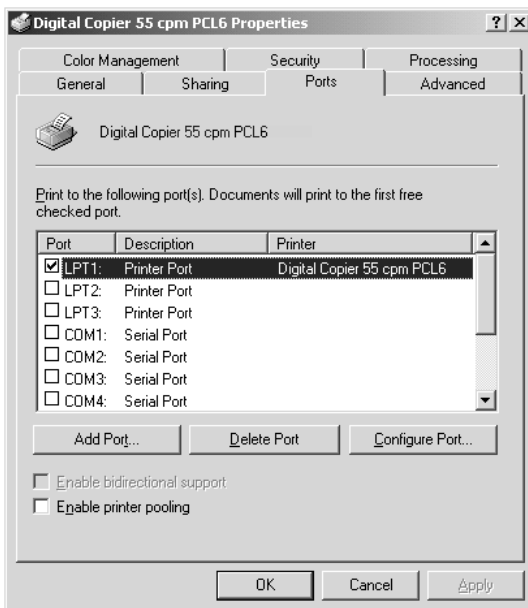


4692P140CA

“Ports” Property Sheet

This property sheet is commonly available to the Windows 2000-based printer drivers.

There is no need to make any changes in settings for ordinary operating environments. See Windows 2000 Help for more details.



4692P141CB

“Advanced” Property Sheet

This property sheet is commonly available to the Windows 2000-based printer drivers.

There is no need to make any changes in settings for ordinary operating environments. See Windows 2000 Help for more details.

NOTE

If “Separator page” is specified, a separator page can be inserted between multiple print jobs.

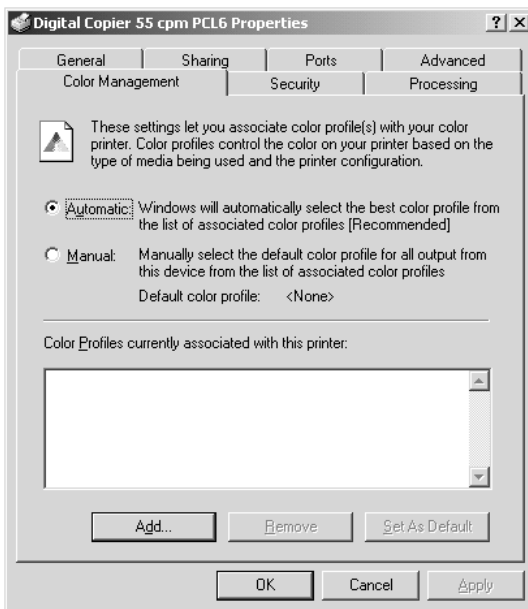


4692P142CB

“Color Management” Property Sheet

This property sheet is displayed only when PCL6 driver is used.

It is not necessary to made any setting for normal use.

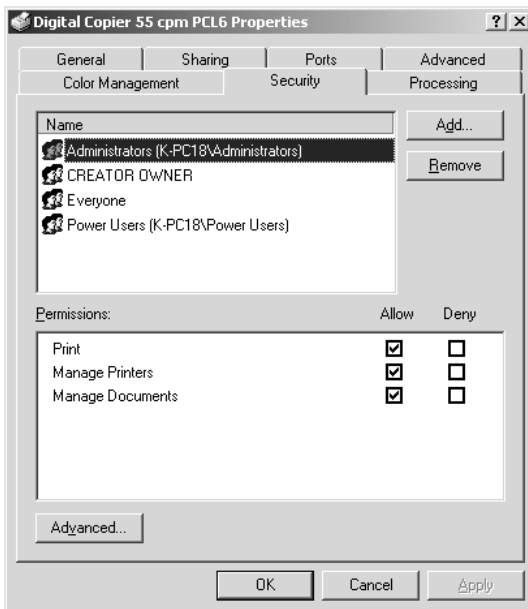


4692P143CA

“Security” Property Sheet

This property sheet is commonly available to the Windows 2000-based printer drivers.

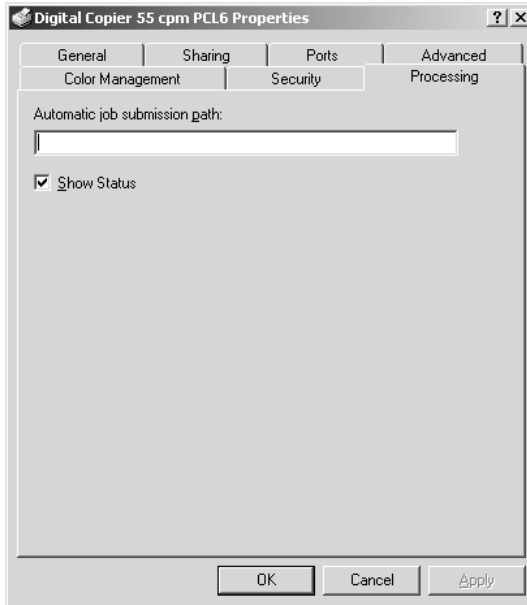
There is no need to make any changes in settings for ordinary operating environments. See Windows 2000 Help for more details.



4692P144CA

“Processing” Property Sheet

This property sheet is displayed only when PCL6 driver is used.
It is not necessary to make any setting for normal use.



4692P145CA

3. Windows NT4.0

Operating Environment

This section explains the required environment for the printer driver. Before installing the printer driver, make sure that your computer meets the following requirements. If it doesn't, the printer driver may not function properly.

Personal computer		IBM PC or compatible with Pentium 200MHz or higher CPU
Operating system		Windows NT4.0 (English)
Memory		64MB or more
I/O interface	Parallel	Centronics interface (Conforming to IEEE1284)
	Network	10/100BaseT (UTP)
Free space on hard disk		10MB or more (PCL6) 2MB or more (PS)

- Windows 95/98
For the operating environment and installation procedure for the Windows 95/98 printer driver, see p.2-2.
- Windows 2000
For the operating environment and installation procedure for the Windows 2000 printer driver, see p.2-18.

3. Windows NT4.0

Installation

This section explains the installation procedure for the Windows NT 4.0 printer driver.

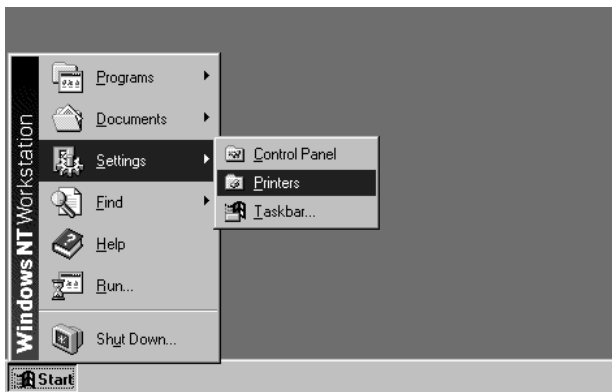
NOTE

Before starting to install the printer driver, be sure first to quit all other applications.

TIP

The following procedure assumes that the machine is a Digital Copier 55cpm and that the printer driver is PCL6: Read the specific proper names accordingly if the machine is a model other than the Digital Copier 55cpm and if, for example, the printer driver is PS.

1. Click the [Start] button. From the menu that appears, select “Settings,” then click “Printers.”



4608P038CC

2. The Printers window will appear. Double-click the “Add Printer” icon.

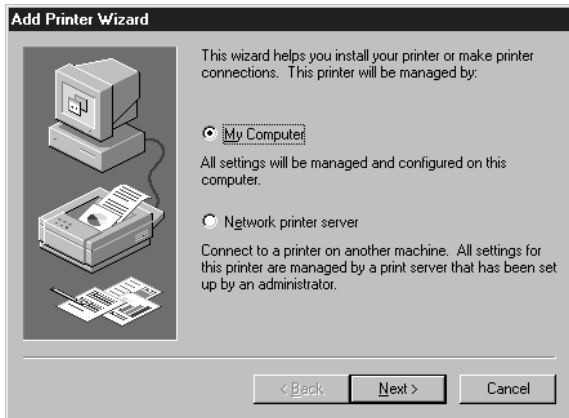


4608P002CB

3. Start the Add Printer Wizard. If the printer is directly connected to the computer, select “My Computer” and click the [Next>] button.”

NOTE

When installing the printer driver in a computer connected to the machine via a network, be sure to consult the network administrator.



4608P039CA

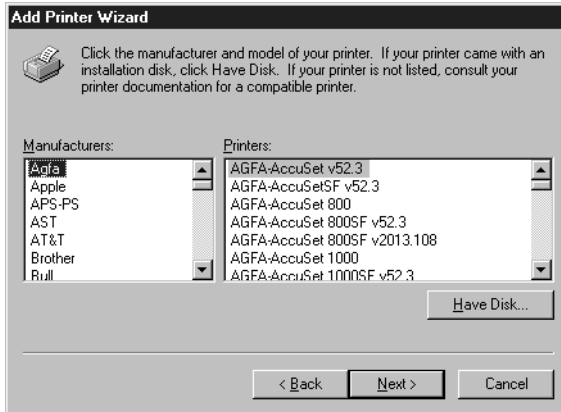
4. A window that prompts you to select the port will appear. Select the name of the port to be used and click the [Next>] button.



4608P040CA

3. Windows NT4.0

5. A window will appear, prompting you to select the manufacturer and model of your printer. Click the [Have Disk...] button on the lower right part of the screen.



4608P041CA

6. The “Install From Disk” dialog box will appear. Install the controller driver CD-ROM that is included with the controller in the CD-ROM drive of your computer.



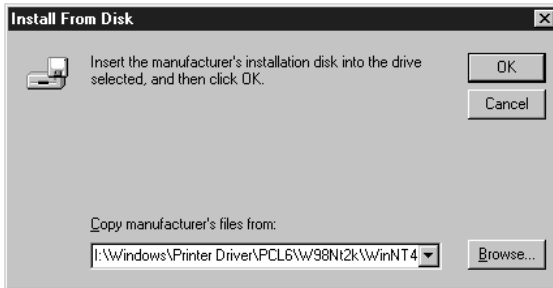
4608P006CA

7. Type the drive name in the “Copy manufacturer’s file from” box and click the [OK] button.

To install PCL6: I:\Windows\Printer Driver\PCL6\W98Nt2k\WinNT4

To install PS: I:\Windows\Printer Driver\PS\NT40

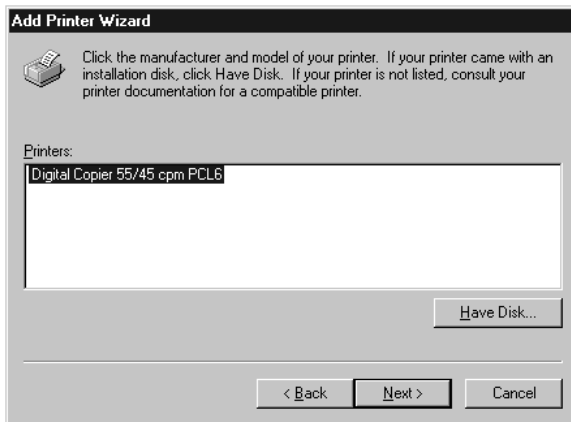
(As an example, the CD-ROM drive is drive I.)



4668P037CB

8. A “Printers” list appears.

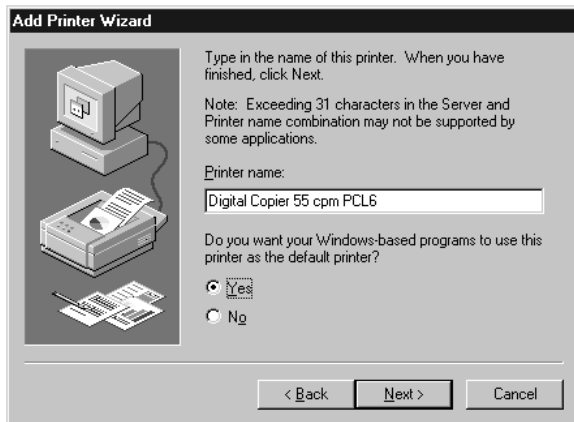
Select the driver to be installed and click the [Next>] button.



4692P146CB

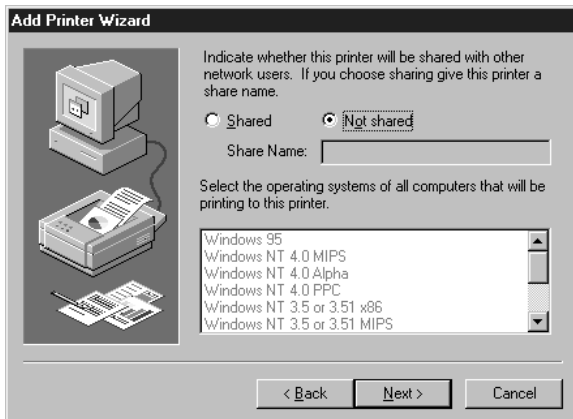
3. Windows NT4.0

9. A window that asks you to confirm the printer name will appear. Check the printer name. If you want to designate this printer as the default printer, select “Yes.” (In this example, the printer name is changed to “Digital Copier 55cpm PCL6.”) Click the [Next>] button.



4692P147CA

10. A screen that allows you to select whether to share the printer or not. If you share the printer with other users, select “Shared” and type the share name in the box to the right of “Share Name.” If not, select “Not shared.” Click the [Next>] button.



4608P043CA

11. A screen that allows you to select printing of a test page will appear. If you want to print a test page, select “Yes (recommended).” If you elect not to, select “No.” It is recommended that a test page be printed to ensure that the printer driver has been installed properly. As the last step, click the [Finish] button.



12. Installation will start.

When all the files have been copied from the floppy disk, the corresponding icon will be added to the “Printers” window. This completes the installation.



3. Windows NT4.0

Test Print

If “Yes (recommended)” has been selected in the step to specify printing of a test page, test printing starts. Check that the printer name is correct.

Here is a typical test print page.



Windows NT Printer Test Page

Congratulations:

If you can read this information, you have correctly installed your Digital Copier 55/45cpm PCL6 on MDLQA-NT.

The information below describes your printer driver and port settings.

```
Machine Name: MDLQA-NT
Printer name: Digital Copier 55/45cpm PCL6
Printer model: Digital Copier 55/45cpm PCL6
Color support: No
Port name(s): 150.16.239.152
Data format: IMF
Share Name:
Location:
Comment:
Driver name: MIMFN4_2.DLL
Data file: MSDMLT_2.SDD
Config file: MNT4UI_2.DLL
Driver version: 4.01
Environment: Windows NT x86
Default Datatype: RAW
```

Files used by this driver:

```
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MGDI32 2.DLL (4, 2, 1416, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MSPOOL 2.DLL (5, 2, 1312, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MIR32 2.DLL (5, 50, 1725, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MCM 2.DLL (5, 50, 1027, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MICM 2.DLL (5, 50, 1027, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MIMEF32 2.DLL (5, 50, 1725, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MGINST 2.EXE (2, 0, 1730, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MUNZ 2.UNM
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MSDMLT 2.DLL (5, 5, 1218, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MSDMLT 2.DLL (5, 5, 1102, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MSDMLT_2.SDD
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MHPL 2.DLL (5, 1, 4001, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MSDMLT 2.HELP
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MSDPOP 2.HELP
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MQDPRT 2.DLL (5, 2, 1616, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MDS32 2.DLL (5, 3, 1503, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MDDM32 2.DLL (5, 50, 2231, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MDDMUI 2.DLL (5, 2, 2021, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MDSR32 2.DLL (5, 50, 1031, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MSPL32 2.EXE (5, 3, 2013, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MIMFN4 2.DLL (5, 50, 1613, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MNT4UI 2.DLL (5, 50, 1611, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MNT4UI 2.DLL (5, 0, 508, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MSDIMF 2.DLL (5, 50, 1726, 2)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MMDGNW 2.DLL (1, 0, 3021, 1)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MIMEFR 2.DLL (5, 50, 1606, 0)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MOPT 2.DLL (1, 0, 1, 2407)
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MOPT 2.INI
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MGTSRV 2.DLL
C:\WINNT\System32\spool\DRIVERS\W32X86\2\MSGMLT_2.INI
```

This is the end of the printer test page.

Making General Settings Before Using the Printer

The printer driver requires setting of items that are common to all print jobs, including the port to which the printer cable is connected and optional devices configured with the machine. These settings must be made using property sheets available from the Properties command after the printer driver has been installed or whenever the operating environment is changed.

The most common settings were made when the printer driver was installed, meaning that you do not usually bother to change them. Some items must, however, be changed in the following cases.

Cases where changes are necessary	Applicable property sheet	Ref. page
<ul style="list-style-type: none"> You want to add a comment to distinguish the printer from others 	“General”	p.2-48
<ul style="list-style-type: none"> The computer’s connecting port has been changed You want to change the conditions for the display of a timeout error You want to designate a port to which the machine is connected via a network (this setting must be made on a computer connected to the machine via a network) 	“Ports”	p.2-49
<ul style="list-style-type: none"> You want to specify a time frame for the machine operation 	“Scheduling”	p.2-50
<ul style="list-style-type: none"> You want to share the machine with other computers connected to the same network (this setting must be made on the computer directly connected to the machine) 	“Sharing”	p.2-51
<ul style="list-style-type: none"> You want to restrict access to the machine You want to check the accounts of the machine users 	“Security”	p.2-52
<ul style="list-style-type: none"> This setting is not related to printing. 	“Pressing”	p.2-53

For the details of “Device Options Setting,” see Chapter 3.

Displaying a Property Sheet

There are two different steps to take to display a property sheet. The contents of a particular property sheet slightly differ depending on how you access it. Select the appropriate one according to your need.

- (1) To display a property sheet from the printer folder
- (2) To display a property sheet from an application menu

Below are the detailed procedures for each approach.

Displaying a Property Sheet from the Printer Folder

1. Click the [Start] button and select “Settings.” Then, click “Printers.”
2. Click the icon of “Digital Copier 55cpm PCL6.”

<To display the General sheet>

3. Select “Properties” from the [Printer] menu.

<To display Printing Preferences sheet>

3. Click [Document Defaults...] from the [Printer] menu. This opens the [Digital Copier 55cpm PCL6 Default].

It allows you to set the environment in which you will use the printer. The settings made through this method are valid in all applications.

Displaying a Property Sheet from an Application Menu

1. Select [Print...] from the [File] menu of the application.
2. Make sure that the “Name” of “Printer” is “Digital Copier 55cpm PCL6: If “Digital Copier 55cpm PCL6” is not listed, click [▼] and, from the menu that will then appear, select “Digital Copier 55cpm PCL6.”
3. Click the [Properties] button. This shows the property sheet.

This method allows you to set the number of copies and paper for each document. Note that the settings made on the property sheet accessed through the application are valid only for that particular application.

TIPS

- *To set the Device Option setting, which need not be changed unless device is changed, open it from the printer folder to set.*
 - *To show a property sheet other than Setup, click the corresponding tab located on the top part of the screen.*
-

NOTES

- *The steps to display a property sheet may be different depending on the application. Follow the correct procedure according to the application. The procedure above is based on the application WordPad.*
 - *With PostScript, the contents are different between when the property sheet is accessed from Print Manager and when it is accessed from an application.*
-

3. Windows NT4.0

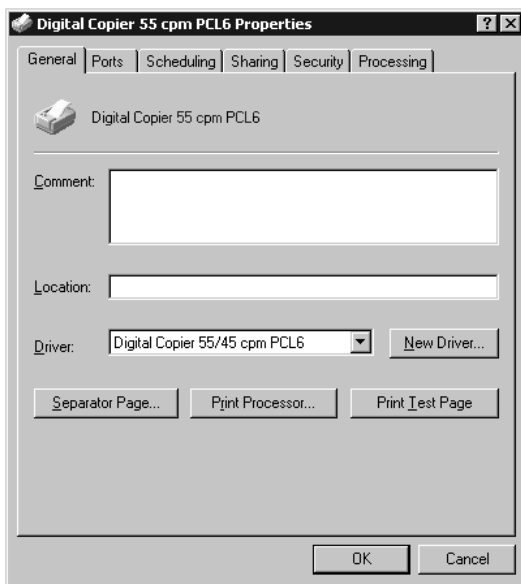
“General” Property Sheet

This property sheet is commonly available to the Windows NT 4.0-based printer drivers.

There is no need to make any changes in settings for ordinary operating environments. See Windows NT 4.0 Help for more details.

NOTE

If “Separator page” is specified, a separator page can be inserted between multiple print jobs.

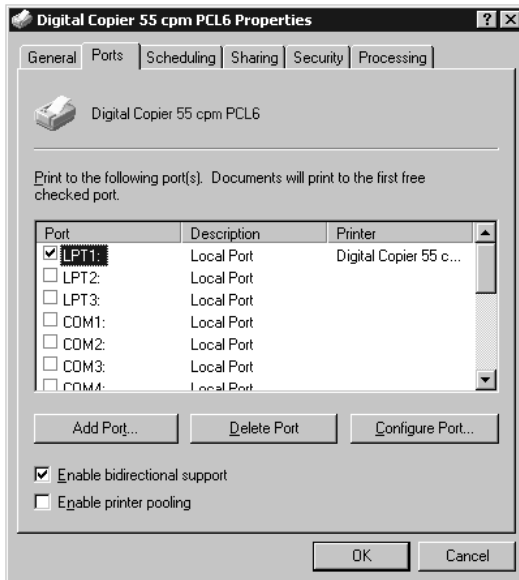


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“Ports” Property Sheet

This property sheet is commonly available to the Windows NT 4.0-based printer drivers.

There is no need to make any changes in settings for ordinary operating environments. See Windows NT 4.0 Help for more details.



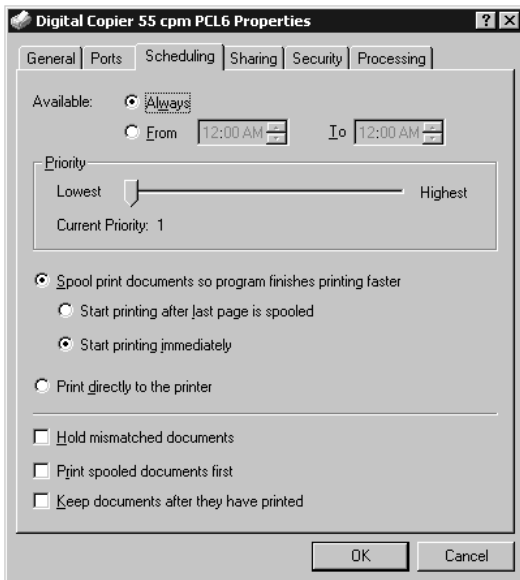
4692P150CB

3. Windows NT4.0

“Scheduling” Property Sheet

This property sheet is commonly available to the Windows NT 4.0-based printer drivers.

There is no need to make any changes in settings for ordinary operating environments. See Windows NT 4.0 Help for more details.

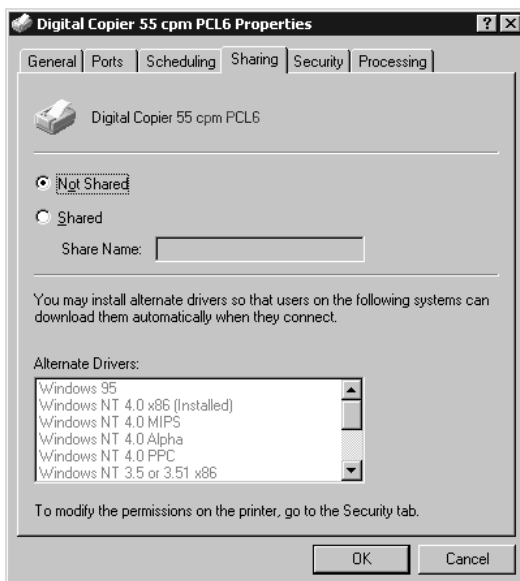


4692P151CB

“Sharing” Property Sheet

This property sheet is commonly available to the Windows NT 4.0-based printer drivers.

There is no need to make any changes in settings for ordinary operating environments. See Windows NT 4.0 Help for more details.



4692P152CB

3. Windows NT4.0

“Security” Property Sheet

This property sheet is commonly available to the Windows NT 4.0-based printer drivers.

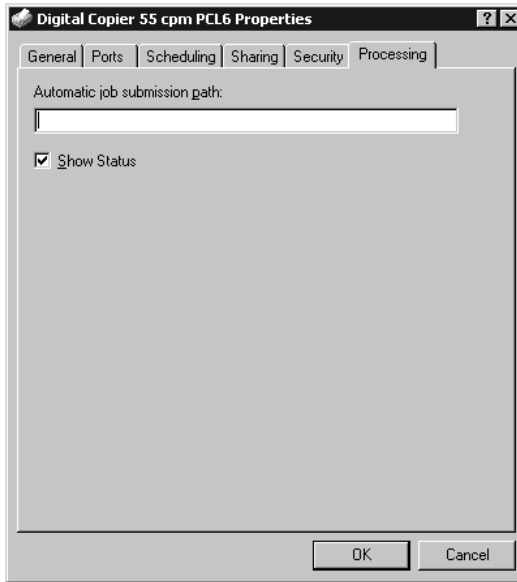
There is no need to make any changes in settings for ordinary operating environments. See Windows NT 4.0 Help for more details.



4692P153CB

“Processing” Property Sheet

This property sheet is displayed only when PCL6 driver is used.
It is not necessary to make any setting for normal use.



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3. Windows NT4.0

Chapter 3

Property Sheets

1. Property Sheets

Description of Each Property Sheet

Each property sheet enables you to change the settings indicated below. For a detailed description of each function, see the corresponding reference page.

Property sheet	Outline of settings that can be changed	Reference page
[Setup]	Allows you to set the paper take-up tray and paper exit tray. Also allows you to set high level printing functions such as two-sided printing, booklet creation, N-up printing, OHP interleaving, Watermark, Cover Mode, Staple, Punch, and Folding.	p.3-9
[Paper]	Allows you to set basic printing items such as number of copies, paper size, print orientation and print zoom ratio. Also allows you to set functions related to sorting.	p.3-21
[Quality]	Allows you to set general items related to graphics, such as resolution, halftone processing and image processing method. Also allows you to set TrueType fonts.	p.3-27
[Device Options Setting]	Allows you to set option equipment installed on the machine.	p.3-4
[Job Management]	Sets the copy track function. Allows you to lock a printing job. Also allows you to print the distribution number.	p.3-31
[PostScript] (PS driver only)	Allows you to make detailed settings related to PostScript.	p.3-33
-	Allows you to save and read the contents of the settings on a "Setup", "Paper", "Quality", "Job Management", "Device Options Setting" or "PostScript" property sheet.	p.3-7

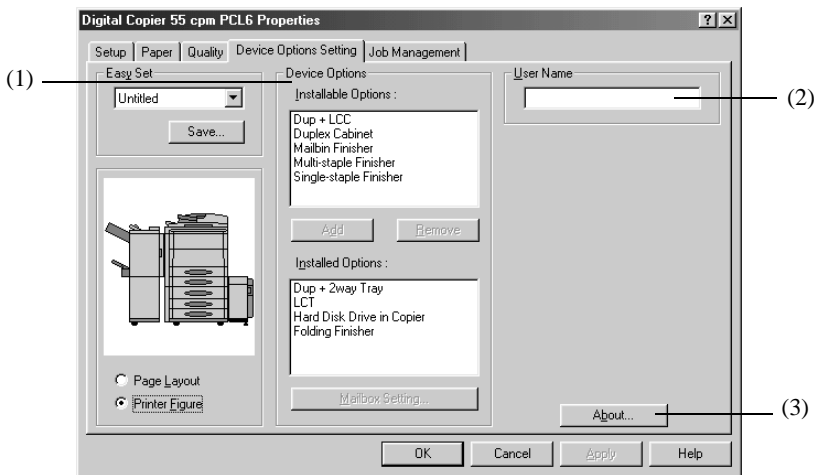
NOTES

- *Refer to Chapter 2 for the procedure for displaying “Properties.”*
 - *Note that different settings must be made for each driver.*
 - *The differences between each driver are indicated based on the PCL6 version driver for Windows 98.*
 - *Details of OS-dependent functions are not given.*
-

2. “Device Options Setting” Property Sheet

Functions of the “Device Options Setting” Property Sheet

This property sheet allows you to set the options installed on the machine. Make sure you select the options correctly. Otherwise, some functions may be unusable or printing errors may occur. The settings must match the machine configuration.



4692P155CA

(1) Device Options

Set the options installed in the machine.

- **Installable Options** : This is a list of installable options. Select the desired options from this list.

Available settings: Dup+2way Tray, Dup+LCC, Duplex Cabinet, LCT, Mailbin Finisher, Multi-staple Finisher, Single-staple Finisher, Folding Finisher, Hard Disk Drive in Copier

- **Add** : Pressing this button adds the selected option.
- **Remove** : Pressing this button removes the selected option.
- **Installed Options** : This is a list of currently installed options. Select it when you wish to remove an option.
- **Mailbox Setting** : <when Mailbin Finisher is installed>
You can add a name to each mailbin of Mailbin Finisher. For details, see Page 3-6.

2. “Device Options Setting” Property Sheet

NOTE

If the Dup+2way Tray, Duplex Cabinet, and Dup+LCC are not correctly selected, it may not be possible to select the Finisher correctly.

(2) User Name

The user name set in the printer driver is displayed as the job user name on the machine’s touch panel.

Setting range: 8 characters max

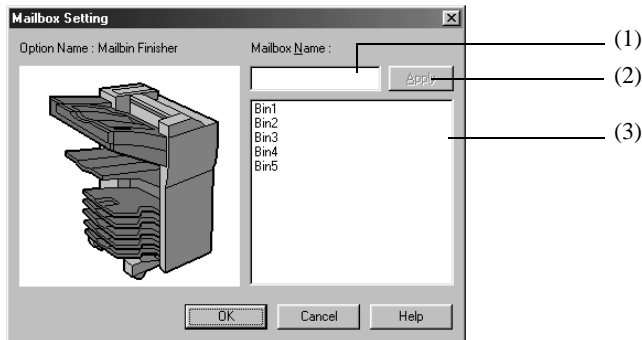
(3) About...

Click to display the manufacturer and version number of the printer driver.

2. “Device Options Setting” Property Sheet

“Mailbox Setting” Dialog Box <when Mailbin Finisher is installed>

Allows you to set the names of the mailbins in Mailbin Finisher.



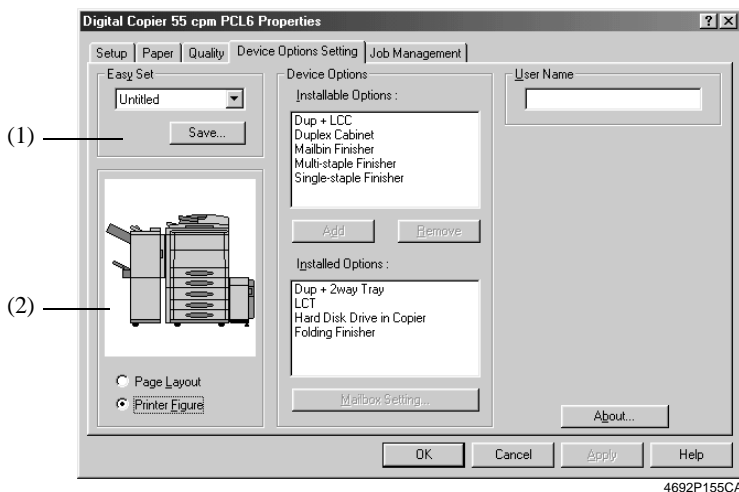
4668P048CA

- (1) MailBox
This is the bin name editing box.
Setting range: max 20 characters (PCL6)
max 32 characters (PS)
- (2) Apply
Press to finalize a changed name.
- (3) Bin list
Displays a list of names of currently set bins.
To change the name of a bin, select the name you wish to change.

3. Functions that are Common to Various Property Sheets

Functions that are Common to Various Property Sheets

These functions are common to property sheets from the “Setup” property sheet to the “Job Management” property sheet and also the “PostScript” property sheet.



(1) Easy Set

Allows you to call and use the settings stored in each property sheet.

- **Easy Set Name** : Allows you to call the settings stored in each property sheet.
- **Save (Delete)** : Used to save/delete the settings of property sheets. When you touch the [Save] button to save the contents of a property sheet, the “Save Easy Set Name” dialog box appears. For details, see Page 3-8. When you touch [Delete], the stored set contents are deleted.

NOTES

- Depending on environment used, contents of Save/Delete will be different: Refer to Appendix A for details. ↗ p.A-5
- Watermark, Custom Paper, Mailbox Name, and Font Substitution Table are not set.

TIPS

- If the set contents have changed, the [Save] button will appear.
- If the set contents are the Easy Name contents, the [Delete] button will appear.

3. Functions that are Common to Various Property Sheets

(2) Paper preview/Machine preview

Allows you to display/change over the paper preview and machine preview.

- **Page Layout** : The layout of the printed data on a single page is displayed as an image. This allows you to check the status for N-up printing and two-sided printing, for example.

See Page A-8 for the Page Layout list.

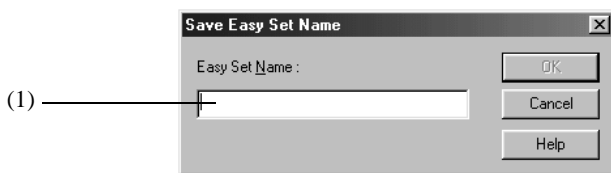
- **Printer Figure** : When the paper take-up tray and the paper exit tray are set, the paper take-up tray and paper exit tray are displayed in green.

See Page A-12 for the Printer Figure list.

Functions of the “Save Easy Set Name” Dialog Box

Use to save print setting data.

Before pressing the [Save] button, be sure to set the contents of each property sheet.



4668P049CA

(1) Easy Set Name

Add a name to the stored contents.

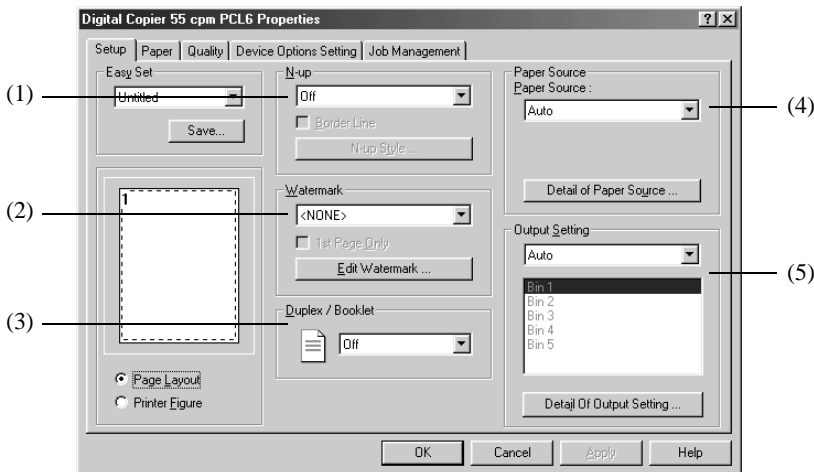
Number of registrations : Depending on environment used, number of registrations will be different: Refer to Appendix A for details. p.A-5

Number of characters : max 10 characters

4. “Setup” Property Sheet

Functions of the “Setup” Property Sheet

This property sheet allows you to set the paper take-up tray, paper exit tray and various high grade printing functions.



4692P156CA

(1) N-up

Outputs multiple originals on one sheet of paper.

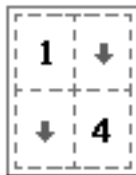
- N-up : Set the N-up number.
Available settings: Off, 2up, 4up, 6up, 9up, 16up
- Border line : Sets the layout border
- N-up Style : Sets the printing layout



Horiz.
Ascending



Horiz.
Descending



Vert.
Ascending



Vert.
Descending

4668P051CA

NOTE

If you print a document that contains pages of different sizes and/or different directions in the same job, the image may be partially cut or images may overlap each other.

4. “Setup” Property Sheet

TIP

The printing layout is displayed on the Page Layout.

(2) Watermark

Prints a specific word in the background as a watermark.

- Text : Select the word to be entered as the watermark from the list.
Available settings: NONE, CONFIDENTIAL, COPY, DO NOT COPY, DRAFT, FINAL, PROOF, TOP SECRET, or a word set by the user
 - 1st Page Only : Select whether to insert a watermark on only the first page or on all pages.
 - Edit Watermark: Set the format, position, and so on, of the watermark characters. For details, see Page 3-13.
-

NOTES

- *When using this function together with the cover page function, if you set printing to “None” with the cover page function and choose setting to print a watermark on only the first page, the watermark will be printed on the second page.*
 - *This function may not operate with some applications.*
 - *Depending on environment used, contents of Save/Delete will be different: Refer to Appendix A for details. ↗p.A-6*
-

TIP

The condition of the watermark is displayed on the Page Layout.

(3) Duplex / Booklet <when Dup + 2way Tray, Dup + LCC or Duplex Cabinet is installed>

Specifies two-sided printing and Booklet printing.

- Off : Not set
- Short Edge Binding : Two-sided printing takes place so that the short edge is bound.
- Long Edge Binding : Two-sided printing takes place so that the long edge is bound.
- Booklet Left Binding : Four pages are printed on both sides of a single sheet of paper so that when the sheet is folded in the middle it forms a booklet (left bound).

- **Booklet Right Binding:** Four pages are printed on both sides of a single sheet of paper so that when the sheet is folded in the middle it forms a booklet (right bound).

NOTES

- *If you print a document that contains pages of different sizes and/or different directions in the same job, the image may be partially cut or images may overlap each other.*
 - *Two-sided printing and OHP interleaving cannot be set simultaneously.*
-

TIPS

- *The sizes for which you can perform two-sided printing are from 140×182mm to 297×432 mm.*
 - *Short Edge Binding, Long Edge Biding, Booklet Left Binding and Booklet Right Binding are displayed on the Page Layout.*
-

(4) Paper Source

Selects the machine tray to be used.

Sets the cover page function and the OHP interleaving function.

- **Paper Source** : Select the machine tray to be used.
The selectable paper sizes are limited by the types of paper take-up trays installed in the machine.
Available settings: Auto, Manual Feed, Tray1~4, LCC, LCT
 - **Detail of Paper Source** : Set the cover page function and OHP interleaving function. For details, see Page 3-16.
-

NOTE

Some paper sizes cannot be selected. For details, refer to the Operator's Manual of the machine.

TIPS

- *Set the paper take-up tray using [Device Options Setting].*
 - *The paper take-up tray used is displayed in green on the Printer Figure.*
-

4. “Setup” Property Sheet

(5) Output Setting

This function selects the tray in the machine to which the paper is to be distributed.

Settings can also be made for finishing functions including stapling, hole punching, and folding.

- Paper exit destination : Select the machine tray to which you wish to distribute the prints.
The selectable paper exit trays are limited by the type of finisher installed in the machine.
Mailbin Finisher : Auto, Mailbin
Except Mailbin Finisher : Auto
- Mailbin paper exit destination: If Mailbin is selected as the paper exit destination, set the mailbin to which you wish to distribute the paper.
- Detail of Output Setting : Set stapling, punching or folding. For details, see Page 3-18.

NOTE

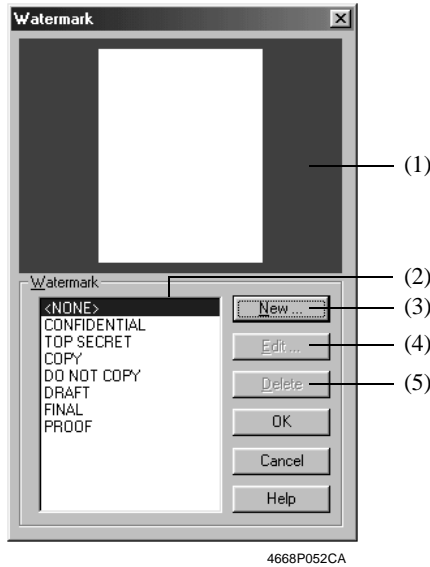
Some paper sizes cannot be selected. For details, refer to the Operator’s Manual of the machine.

TIPS

- *Set the type of finisher using [Device Options Setting].*
 - *The paper take-up tray used is displayed in green on the Printer Figure.*
-

Functions of the "Watermark" Dialog Box

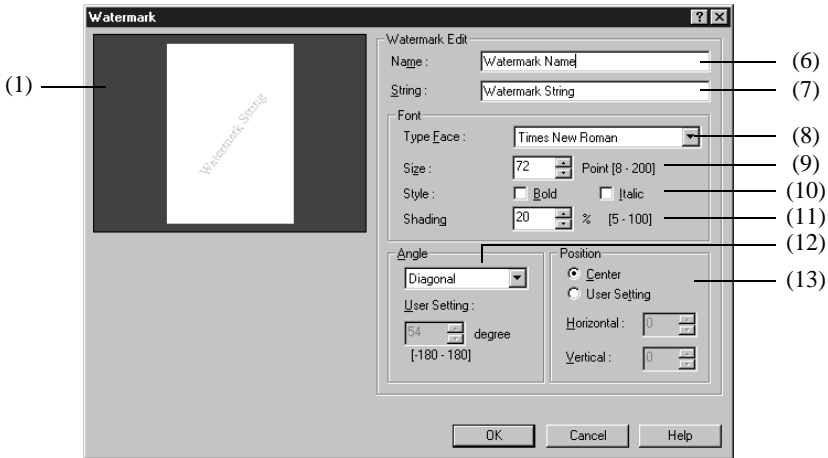
This dialog box allows you to set the text to be inserted using the Watermark function, and also the text style.



- (1) Preview
This is the watermark preview.
- (2) Name
Select a registered watermark from the list.
Available settings: <NONE>, CONFIDENTIAL, COPY, DRAFT, FINAL, PROOF, TOP SECRET, DO NOT COPY, user setting
- (3) New
Used to create new text.
When you select this item, a dialog box for making detailed settings appears.
- (4) Edit
Used to edit text selected in (2).
When you select this item, a dialog box for making detailed settings appears.
- (5) Delete
Deletes text selected in (2).

4. "Setup" Property Sheet

Watermark detailed settings



4668P053CB

(6) Name

Enter the name under which you wish to register the watermark.

Number of registrations : Depending on environment used, number of registrations will be different: Refer to Appendix A for details. p.A-6

Number of characters : max 20 characters

(7) String

Enter the text to be printed as a watermark.

Number of characters : max 255 characters

(8) Type Face

Specify a font from String to be printed as a watermark.

PCL6 : Specify a font from the fonts (PC font) installed in the OS.

PS : Specify a font from device fonts (controller font).

(9) Size

Specify the font size of the characters.

Setting range: 8pt~200 pt (in 1pt steps)

(10) Style

Specify the font style of the characters.

- Bold: Prints bold characters.
- Italic: Prints italic characters.

(11) Shading

Specify the density of the characters.

Setting range: 5%~100% (in 5% steps)

(12) Angle

Specify the angle of the characters with respect to the paper.

- Fixed Angle : Standard fixed angle of the driver.
Available settings: Horizontal, Diagonal, Vertical, User Setting
- User Setting : If you select User Setting from Fixed Angle, you can set any desired angle.
Setting range : -180°~+180° (A – (minus) value rotates the characters clockwise, 0 leaves the characters parallel to the paper, and a + (plus) value rotates the characters counterclockwise.)

(13) Position

Specify the position at which you wish to print a watermark.

- Center : The watermark is printed at the center of the paper.
- User Setting : You can specify a position by entering numbers in the Horizontal and Vertical boxes.
Setting values:
Horizontal : -999pt~999pt (in 1pt steps)
Vertical : -999pt~999pt (in 1pt steps)
(72pt = 1inch)

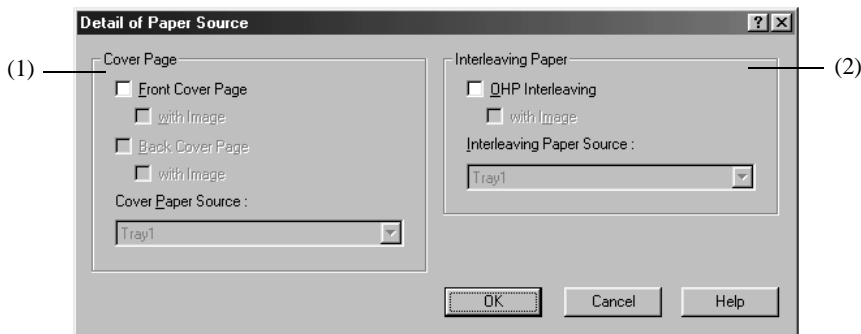
TIPS

- *Specify the position from the center. The Horizontal positive direction is to the right, and the Vertical position direction is upward.*
- *You can check the set contents using (1) Preview.*

4. “Setup” Property Sheet

Functions of the “Detail of Paper Source” Dialog Box

This function sets the cover page function and the OHP interleaving function.



4692P031CA

(1) Cover Page

This function is used to print a document with front and back cover pages. You can print on the front cover, or leave it blank.

- Front Cover Page : Activates the front cover function.
- with Image (Front Cover Page) : Prints on the front cover.
- Back Cover Page : Adds a back cover.
- with Image (Back Cover Page) : Prints on the back cover.
- Cover Paper Source : Select the tray for the front cover and back cover papers.
Available settings: Manual Feed,
Tray1~Tray4, LCC, LCT

NOTES

- When using special paper, such as thick paper, the paper sometimes fails to be distributed to the selected paper exit destination.
- You can set Manual Feed, Tray1~Tray4, LCC and LCT using “Paper Source”.

TIP

The tray containing the paper on which the body of the document is to be printed is displayed in green on the Printer Figure.

(2) Interleaving Paper

This function inserts sheets (interleaving sheets) between sheets of OHP film when printing on OHP film. You can either leave these sheets blank or print the same image as that printed on the OHP film.

- OHP Interleaving : Activates the OHP interleaving function.
 - with Image : Prints an image on the interleaving sheet.
 - Interleaving Paper Source: Select the tray for the interleaving paper.
Available settings: Tray1 ~ Tray4, LCC, LCT
-

NOTES

- *When using the OHP interleaving function, set the number of sets of prints to “1”.*
 - *You cannot select the same paper take-up port for both “Paper Source” and “Interleaving Paper Source”.*
 - *You can set Manual Feed only using “Paper Source.”*
 - *OHP interleaving and two-sided printing cannot be set simultaneously.*
-

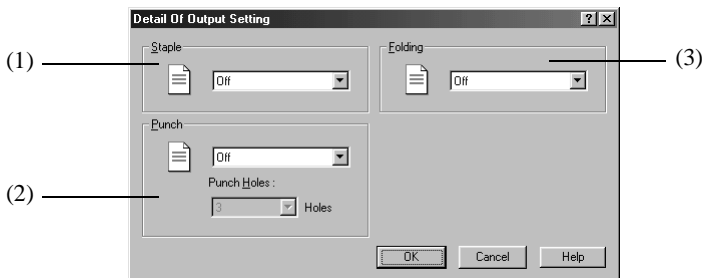
TIP

The OHP film tray is displayed in green on the Printer Figure.

4. “Setup” Property Sheet

Functions of the “Detail Of Output Setting” Dialog Box

Settings can be made for finishing functions including stapling, hole punching, and folding.



4692P032CA

- (1) Staple <when Mailbin Finisher, Single-staple Finisher, Multi-staple Finisher or Folding Finisher is installed>

This function allows you to staple one set of printed documents at a time.

- Off : Printed documents are not stapled.
- Corner staple : Printed documents are stapled at their corners.
- Long Edge : <when Multi-staple Finisher or Folding Finisher is installed>
The documents are stapled along the long edge.
- Short edge : <when Multi-staple Finisher or Folding Finisher is installed>
The documents are stapled along the short edge.
- Center : <when Folding Finisher is installed>
The documents are stapled at the center.

NOTES

- If “Staple” is set, printed pages are fed out into the Elevator Tray.
- The stapling position is either the top left corner or the top right corner depending upon the direction of the paper and the printing direction.
- If the capacity of Mailbin Finisher, Single-staple Finisher, Multi-staple Finisher or Folding Finisher is exceeded, the stapling operation may be canceled. Refer to the Operator’s Manual of the machine.
- If you print a document consisting of pages of different sizes in the same printing job, stapling may be canceled.

4. “Setup” Property Sheet

- *Take care when printing a document consisting of pages facing different directions, since the stapling position will be determined by the direction of the first page.*
- *You cannot set certain sizes or kinds of paper. For details, refer to the Operator’s Manual of the machine.*
- *Only Center Staple can be set with Booklet.*

TIP

You can check the stapling positions using the icons in the dialog box.

- (2) Punch <when Mailbin Finisher, Multi-staple Finisher or Folding Finisher is installed>

This function allows you to punch holes in the printed document.

- Off : The document is not punched.
- Short Edge : The document is punched along the short edge.
- Long Edge : The document is punched along the long edge
- Punch Holes <Inch area only> : Set the number of holes to be punched.

NOTES

- *Number of punch holes can be specified only when Multi-staple Finisher is installed.*
- *“Punch Holes” is not displayed for Metric area.*
- *You cannot punch certain sizes of paper. Also, you may be unable to punch the paper at certain positions. For details, refer to the Operator’s Manual of the machine.*
- *If you select Long Edge in the manual bypass take-up mode, the paper may sometimes fail to be punched.*
- *Punch and OHP interleaving cannot be set simultaneously.*
- *Punch and Booklet cannot be set simultaneously.*

TIP

The punching positions are displayed on the icons in the dialog box.


4. “Setup” Property Sheet

(3) Folding <when Folding Finisher is installed>

Select the desired paper folding function.

- Off : Printed pages are not folded.
 - Just Output Size [Z-Fold] : Printed pages are folded into three parts.
 - Half Folding : Printed pages are folded in two at their center.
 - Crease : A crease is made in printed pages.
-

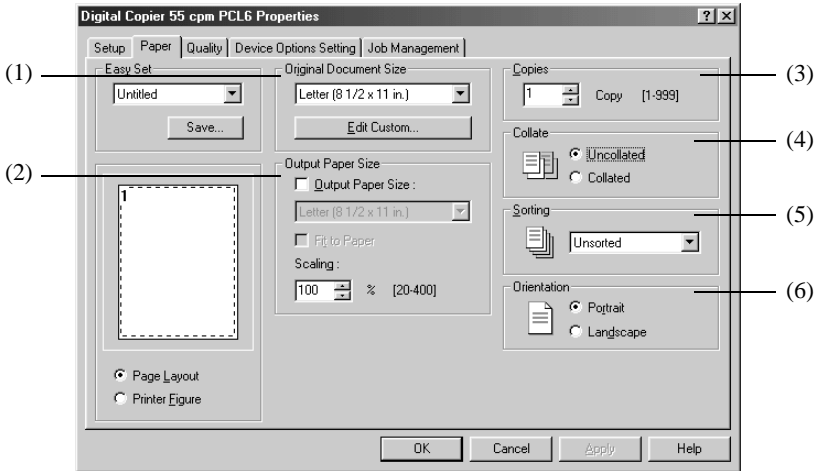
NOTE

If Folding is combined with Hole-Punch or Staple, the Hole-Punch or Staple function to be used is restricted depending on the specific type of the Folding function combined. For details, see Appendix A.  p.A-2

5. “Paper” Property Sheet

Functions of the “Paper” Property Sheet

The “Paper” property sheet allows you to make basic printer settings.



4692P157CA

(1) Original Document Size

Sets the original size.

- Paper size : Select the original size.
Available settings : Letter, Legal, Executive, A3, A4, A5, A6, JIS B4, JIS B5, JIS B6, Invoice, 11×17, 11×14, FLS1, FLS2, FLS3, FLS4, Special sizes
- Edit Custom : Used to set a special size. For details, see Page 3-24.

NOTES

- When using the custom size paper, first load the papers into the Manual Feed Tray and then input the paper sizes on the Touch Panel of the machine.
- Depending on environment used, contents of Save/Delete will be different: Refer to Appendix A for details. p.A-7

5. “Paper” Property Sheet

(2) Output Paper Size

Sets the size of the paper on which prints are to be made.

- Output Paper Size : Activates the specification of the size of printing paper.
 - Paper size : Select the size of the printing paper.
Available settings : Letter, Legal, Executive, A3, A4, A5, A6, JIS B4, JIS B5, JIS B6, Invoice, 11×17, 11×14, FLS2, FLS3, FLS4, Special size
 - Fit to Paper : The prints are output at a zoom ratio that matches the size of the printing paper.
 - Scaling : Specify the print zoom ratio.
Setting range : 20 ~ 400%
-

NOTES

- *If you select a size of paper not loaded in the machine or Manual Feed, the machine will give a message prompting you to add paper to Tray1, Tray2, or the manual bypass port and enter into a standby state.*
 - *If the setting made in “Original Document Size” does not match the size specified in the application with “Fit to Paper” selected, the machine takes the paper size set in the application.*
 - *“Fit to Paper” cannot be selected if “Custom Paper” is selected in “Original Document Size.”*
-

(3) Copies

Specify the number of sets of prints to be made. Enter the value either directly or by pressing [▲] or [▼].

Setting range : 1 to 999 sets

NOTE

When using the OHP interleaving function, set the number of sets of prints to “1”.

(4) Collate

Use this function when making multiple sets of prints of the same document, to specify whether or not to print one set at a time.

- **Uncollated** : All of the pages are printed one after the other. For example, if you make five sets of prints, each page is printed in sequence five copies at a time.
- **Collated** : Prints are output one set at a time. For example, if you make five sets of prints of a 10-page document, the prints will be output one set at a time.

NOTE

Keep Collate (Sort) on the application side set to “OFF” at all times.

(5) Sorting

Select the sorting method.

- **Unsorted** : Prints are not sorted.
- **Sorted** : Prints are sorted.

TIPS

- *If you output prints to the Elevator Tray when the Single-staple Finisher, Multi-staple Finisher or Mailbin Finisher is installed, the prints are output in a sawtooth manner.*
- *When the Folding Finisher is installed or if none of the finishing options is installed, the prints are output in a criss-cross manner.*
- *The following are the minimum requirements for permitting criss-cross sorting using the Collated setting:*
 - Stacks of paper of the same size are loaded in the lengthwise and crosswise directions.*
 - The Staple, Punch or Cover mode is not set.*
- *When “Collated” is selected, “Sorting” is dimmed.*

(6) Orientation

Select the orientation of the image. You can check the selected direction using Page Layout.

- **Portrait** : Printing takes place lengthwise.
- **Landscape** : Printing takes place crosswise.

TIP

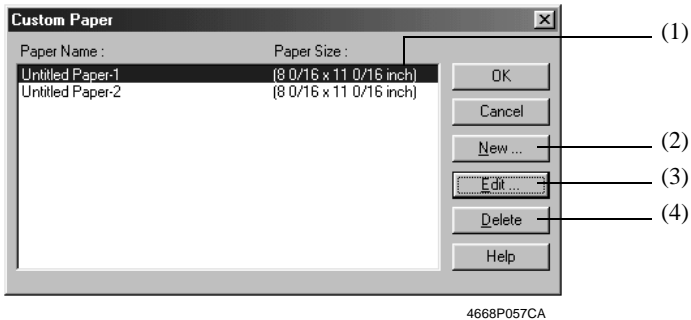
A Portrait or Landscape print appears on the Page Layout.

5. “Paper” Property Sheet

Functions of the “Edit Custom Paper” or “Custom Paper” Dialog Box

Name of Dialog box is “Custom Paper” for PCL6, “Edit Custom Paper” for PS.

Use this dialog box to set special sizes of paper.



(1) Paper Name

Select the paper name from the Custom Paper list.

(2) New

This function allows you to set a special size of paper. When it is selected, the dialog box changes to the Custom Paper Setting Dialog Box.

Number of registrations : Depending on environment used, number of registrations will be different: Refer to Appendix A for details. [p.A-7](#)

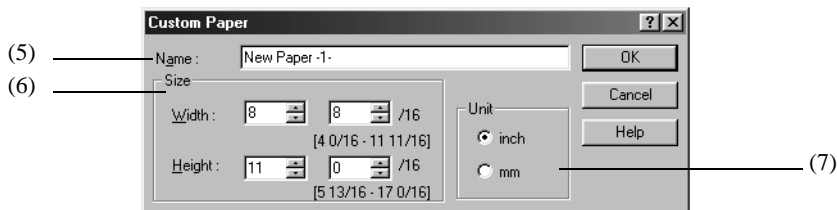
(3) Edit

Edits Custom Paper selected in (1). When it is selected, the dialog box changes to the Custom Paper Setting Dialog Box.

(4) Delete

Deletes Custom Paper selected in (1).

Custom Paper setting dialog box (PCL6 version)

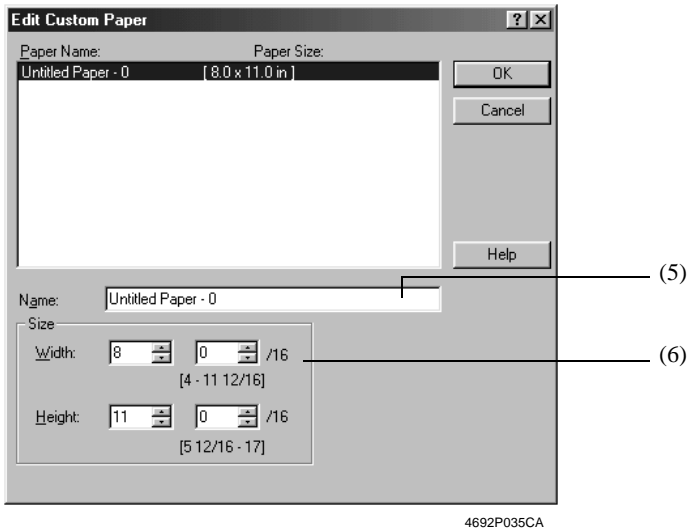


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- (5) Name
Enter the Name of the Custom Paper
Setting range: Max 20 characters
- (6) Size
Set the paper size.
Setting range:
Width : 4 inch ~ 11 11/16 inch (Unit = inch)
100 mm ~ 297 mm (Unit = mm)
Height : 5 13/16 inch ~ 17 inch (Unit = inch)
148 mm ~ 432 mm (Unit = mm)
- (7) Unit
Switches input units of paper size between inch and metric.

5. "Paper" Property Sheet

Edit Custom Paper Setting Dialog Box (PS version)

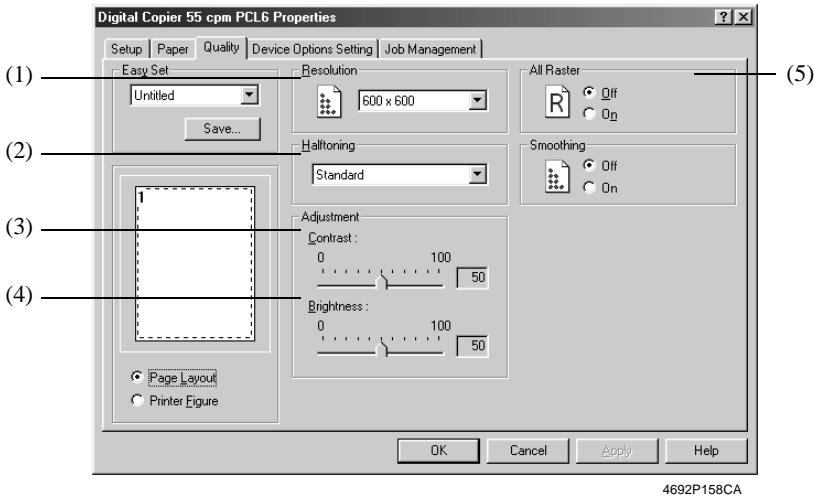


(5) Name
Refer to PCL version.

(6) Size
Set the paper size.
Setting range:
Width : 4 inch ~ 11 12/16 inch (inch area)
100 mm ~ 297 mm (metric area)
Height : 5 12/16 inch ~ 17 inch (inch area)
148 mm ~ 432 mm (metric area)

6. “Quality” Property Sheet

Functions of the “Quality” Property Sheet ‘PCL6’ version property sheet



- (1) Resolution
Select the printing resolution.
Setting range: 600 × 600 dpi
- (2) Halftoning
Select dithering.
 - Standard : Normal dithering takes place.
 - High Quality : High quality dithering takes place.
 - Photocopy : Rougher dithering takes place.

NOTE

Printing with High Quality will take a little more time than with Standard.

- (3) Contrast
Perform contrast adjustment.
Setting range: 0 ~ 100
- (4) Brightness
Perform brightness adjustment.
Setting range: 0 ~ 100

6. “Quality” Property Sheet

(5) All Raster

Select whether or not to perform raster printing.

Available settings: On, Off

NOTE

Depending on the application, normal printing may not be obtained if this is not set to “On”.

(6) Smoothing

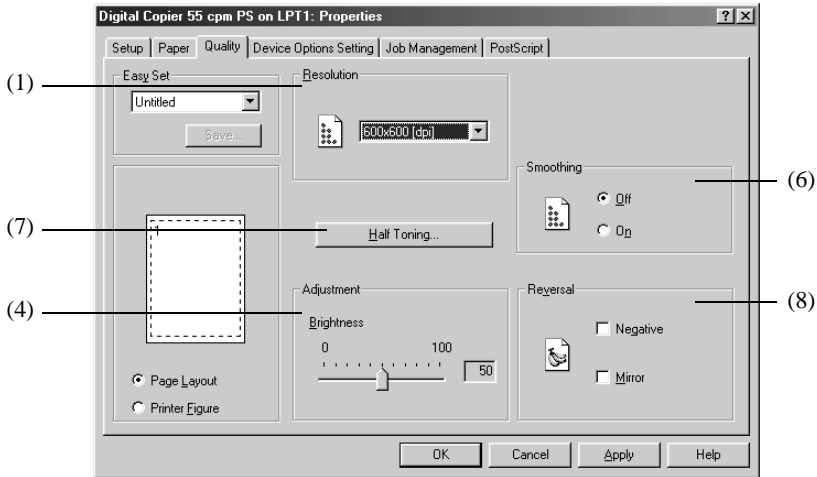
Correct the edges of the printed image.

Available settings: On, Off

NOTE

This function is used with a document whose contents are mainly text. Using the function with a photo image could even dirty the produced image.

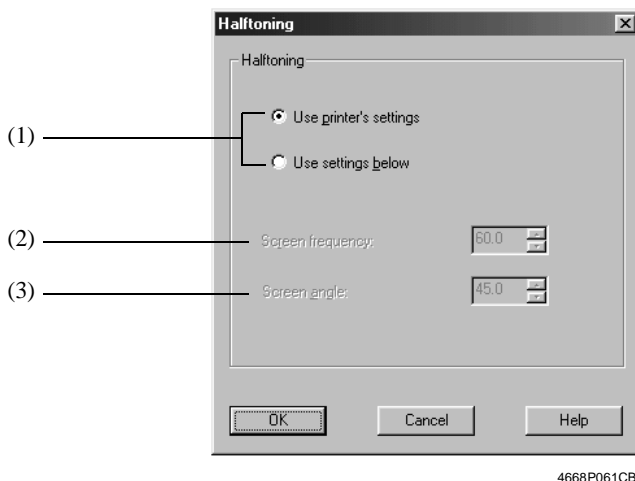
'PS' Version Property Sheet



4692P159CA

- (1) Resolution
Refer to PCL6 version.
- (4) Brightness
Refer to PCL6 version.
- (6) Smoothing
Refer to PCL6 version.
- (7) Half Toning
Specify the method of dithering to express gray.
- (8) Reversal
Specify reversal, Negative or Mirror, or both.
 - Negative : Reverses black and white.
 - Mirror : Reverses left and right.

Functions of the “Halftoning” Dialog Box



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(1) Halftoning

Select the method to set halftones.

- **User Printer's settings** : Uses the setting value of the printer when the halftone image is printed. This setting is normally recommended.
- **Use settings below** : Uses the optional setting value (the setting of optional value) instead of the setting value of the printer when the halftone image is printed. If a moire pattern occurs using “Use printer's settings”, you should print with adjusting Screen frequency and Screen angle.

(2) Screen frequency

Set the number of lines on the screen.

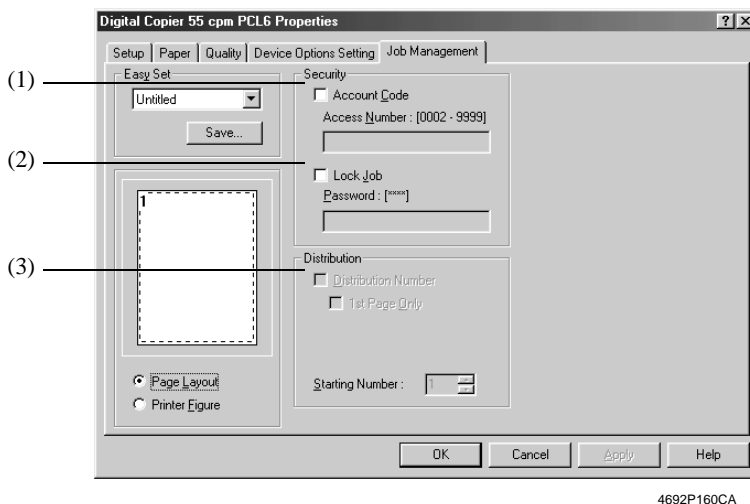
Setting range: 0.1 ~ 999.9 (in 0.1 steps)

(3) Screen angle

Set the screen angle: 0 ~ 360° (in 0.1° steps)

7. “Job Management” Property Sheet

Functions of the “Job Management” Property Sheet



4692P160CA

(1) Account Code

Check this box when using the copy track function. An account code is attached to each printing job, enabling you to carry out management at the machine. In order to use this function, copy track function must be set at the machine.

When the copy track function is set at the machine, printing may sometimes fail to take place until the access number designated at the machine is correctly set.

- Account Code : Makes the copy track function valid.
- Access Number : Enter the access number set in the machine.
Setting range: 0002 ~ 9999 (4 digits)

NOTE

To clear the Account Code function when PCL6 is used, type any number in the Access Number box. If no number is typed in the Access Number box, the message “Access Number Error” will appear and you might not be able to exit from the function.

7. “Job Management” Property Sheet

(2) Lock Job

Check this box when locking a printing job.

When using Lock Job, set a password in “Password.”

A locked printing job will be printed when it is unlocked using the Job List display on the panel of the machine. In this case, a password is necessary.

- Lock Job : Make the lock job function valid.
 - Password : Enter the password of the lock job.
Setting range: 0000 ~ 9999 (4 digits)
-

NOTE

To clear the Lock Job function when PCL6 is used, type any number in the Password box. If no number is typed in the Password box, the message “Password Error” will appear and you might not be able to exit from the function.

(3) Distribution <when Hard Disk Drive in Copier is installed>

Specifies adding a distribution in the background during printing, and also sets the conditions for adding distribution number. A distribution number is added for each set of prints.

- Distribution Number : Select the distribution number function.
 - 1st Page Only : Select whether to print the distribution number on only the first page, or on all pages.
 - Starting Number : Specify the starting number of the distribution numbers to be printed.
Setting range: 001 ~ 999
-

NOTES

- *When using this function in combination with the cover page function, if you set printing of the cover page to “No” using the cover page function, and set serial number printing to “Yes”, a distribution number will be printed on the cover page.*
 - *The orientation of the screen sometimes fails to match the orientation of the distribution number.*
-

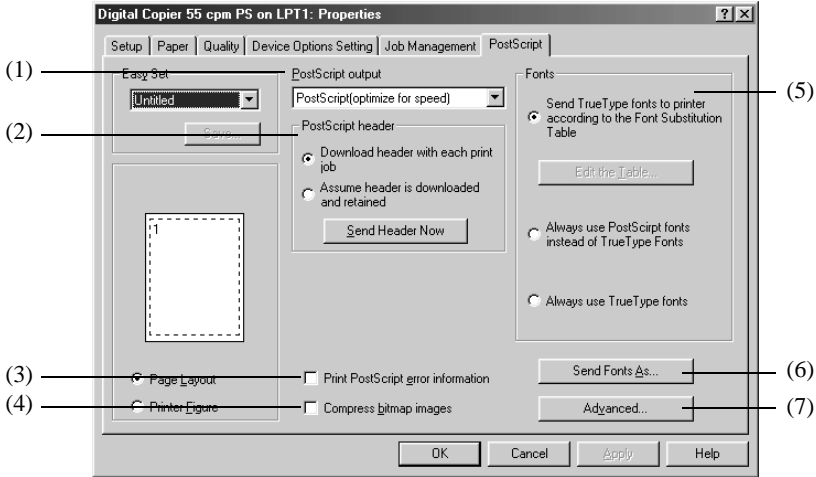
TIP

When the distribution number reaches 999, the next number returns to 000.

8. “PostScript” Property Sheet

Functions of the “PostScript” Property Sheet

This property sheet enables you to set all items related to PostScript.



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(1) PostScript output

Set the output format of PostScript.

- PostScript (optimize for speed):
Performs optimization for faster printing processing.
- PostScript (optimized for portability-ADSC):
Performs optimization for reducing error.
- Encapsulated PostScript (EPS):
Select this item when you wish to embed this file as an image in a document that is to be printed using a different program.
- Archive format : Saves the data stream of PostScript to a file.

8. “PostScript” Property Sheet

(2) Postscript header

Set the method of sending the header.

- Download header with each print job:

This item sends header information each time a document is printed. We recommend that you use this setting when sharing a network printer.

- Assume header is downloaded and retained:

Sends header information only once to the printer, in order to shorten the printing time.

- Send Header Now: Sends header information to the controller.

(3) Print PostScript error information

Set the PostScript error information printing.

(4) Compress bitmap images

Send graphics in compressed form.

(5) Fonts

Set TrueType font.

- Send TrueType fonts to printer according to the Font Substitution Table:

Replaces TrueType fonts for the printer fonts, or downloads TrueType fonts in accordance with the Font Substitution Table. For editing the Font Substitution Table, you should open the “Properties...” from the Control Panel and select “Edit the Table” button.

- Edit the Table: Sets the Font Substitution Table.

- Always use PostScript fonts instead of TrueType fonts:

Always prints replacing TrueType fonts for the printer fonts. The printing speed becomes faster, but the printed result may not be the same as the display.

- Always use TrueType fonts:

Always prints downloading TrueType Fonts to the printer. The printed result will be the same as the display, but the printing speed becomes slower.

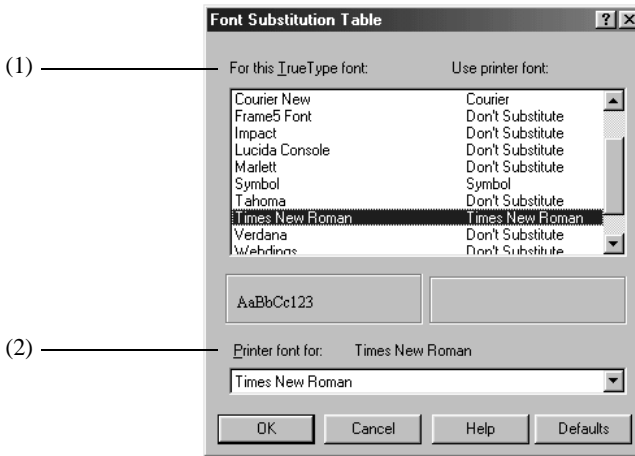
(6) Send Fonts As:

Sets sending method of fonts.

(7) Advanced:

Performs detailed settings of PostScript.

Functions of the "Font Substitution Table" Dialog Box

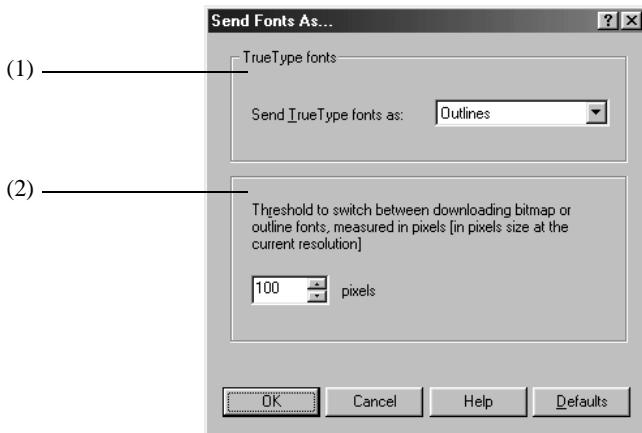


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- (1) For this TrueType font:
Used to display and select the substitution table settings.
- (2) Printer font for:
Select the substitution printer font.

8. “PostScript” Property Sheet

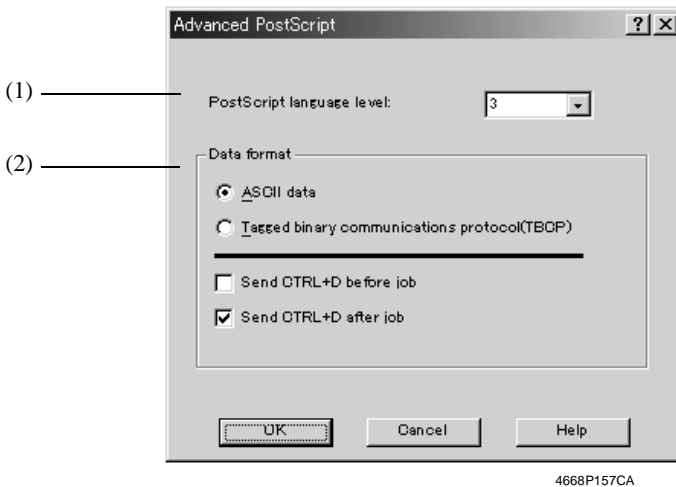
Functions of the “Send Fonts As” Dialog Box



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- (1) TrueType fonts
Select the method of sending TrueType fonts.
Available settings: Don't Send, Outlines, Bitmaps, Type42
- (2) Set the reference font size of the TrueType font for changing over from a Bitmap font to an Outline font.
Setting range: 0 ~ 999 pixels

Functions of the "Advanced PostScript" Dialog box



- (1) PostScript language level:
 Selects PostScript language level.
 Set Value 2: PostScript level 2
 3: PostScript level 3

(2) Data format

Sets data format of PostScript.

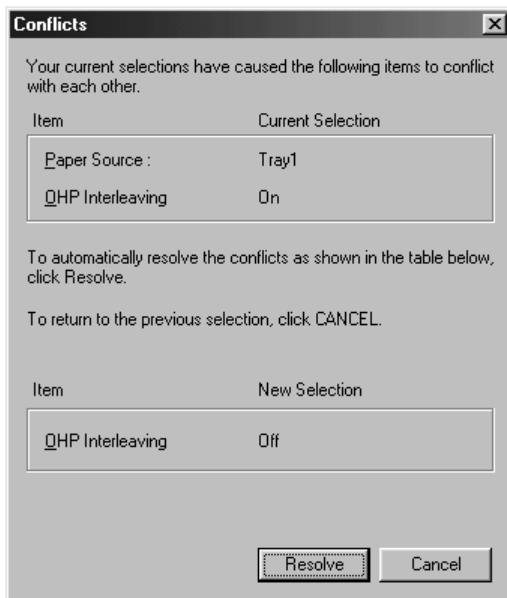
- ASCII data: Transmits the data in the ASCII format (7-bit). When you select this format, it takes more time for transmission, but any I/O channel, such as the parallel port or the network port, is available.
- Tagged binary communications protocol (TBCP):
 Transmits the data in the binary format (8-bit). When the data is transmitted from the parallel port, it can be transmitted faster than in the ASCII format.
 This binary format is not available when you use the option for the archiving form or create the EPS file.
- Send CTRL+D before job: Transmits Ctrl+D before job.
- Send CTRL+D after job: Transmits Ctrl+D after job.

9. “Conflicts” Dialog Box

Functions of the “Conflicts” Dialog Box

The “Conflicts” dialog box, like the one shown below, appears when a setting that conflicts with another made previously is made on a property sheet.

When the following screen appears, it shows that the currently selected settings conflict with each other.



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When the “Conflicts” dialog box appears, it shows the settings that could not be combined with each other. Check the details, and click the [Resolve] button or the [Cancel] button to quit.

NOTE

Some settings, which are defied by the machine for the restricted combinations of different functions, can at times be accepted by the printer driver. If a print command is issued from the personal computer with such settings made, the machine does not produce the output correctly or abandons the job to produce nothing. Make sure that you make correct settings.

Tip

The dialog box looks slightly differently from this one when Device Options Setting is being set or the PS driver is being used.

Chapter 4

Convenient Functions

1. Convenient Functions

Convenient Functions

In this chapter, you will learn how to print your document, guiding you through steps from start to end of printing.

WordPad, a Windows 98 standard application, is used as an example to show the steps to follow for using Windows 98 PCL6 version driver.

Though the screen format differs from one driver to another, the given procedure may be used as reference for a driver other than the Windows 98 PCL6.

If a different procedure is applicable to a specific driver, that is included with the text.

TIPS

- *Different procedures apply to start a property sheet depending on the application. This chapter is concerned only with the procedure to be used with WordPad.*
- *A single application may offer two or more different procedures to follow to open a property sheet. If, for example, WordPad is used on Windows 98 PCL6 driver, the text that follows will instruct you to open a property sheet by opening the Print dialog box with “Print” in the “File” menu. Another procedure that may be used is: Open the Page Setup dialog box with “Page Setup” in the “File” menu, and then click the [Printer] button to open the Page Setup dialog box before opening a property sheet.*

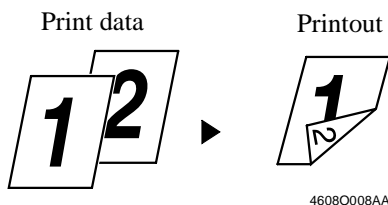
To open the property sheet with Windows 2000, select “Print...” from “File” menu, and select “Digital Copier 55cpm PCL6” from “Printer selection” in “General”.

2. Printing on Both Sides of the Paper

Overview

This section explains how to print a multi-page document which has been created with an application using both sides of a sheet. It also shows the steps to be followed when stapling the two-sided pages.

To use this function, a Dup + 2way Tray, Dup + LCC or Duplex Cabinet must be mounted on the machine.



Procedure

1. Start printing from the application which has been used to create the document: Normally, printing can be started by selecting “Print” from the “File” menu.
2. The Print dialog box will appear. Make sure that “Digital Copier 55cpm PCL6” is displayed for “Name” in “Printer”, and click the “Properties” button.

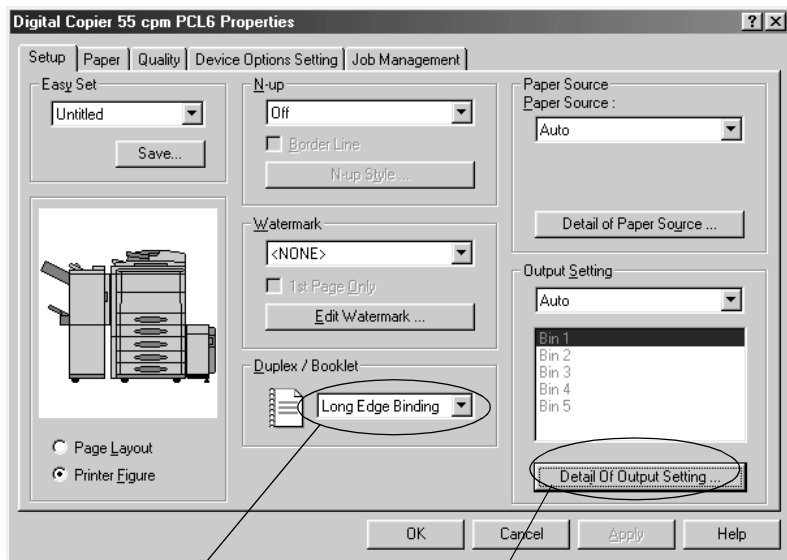
NOTE

Some applications allow you to set Copies and Collate (Sort) in the Print dialog box. To ensure proper printing operation, however, turn OFF these items of the application, and make the necessary settings in each property sheet of the printer driver.

3. The “Digital Copier 55cpm PCL6 Properties” dialog box will appear.
4. Make sure that the size of the document created with the application is displayed in “Original Document Size” on the “Paper” property sheet.
5. Click the “Setup” tab.

2. Printing on Both Sides of the Paper

6. Select “Long Edge Binding” or “Short Edge Binding” from “Duplex/Booklet.”



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6. Specify Duplex.

7. Specify Staple.

If “Long Edge Binding” is selected, printing will be performed on both sides of each page so that the printed pages form a book when they are bound along the long edge. If “Short Edge Binding” is selected, printing will be performed on both sides of each page so that the printed pages form a book when they are bound along the short edge.

Long Edge Binding



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Short Edge Binding



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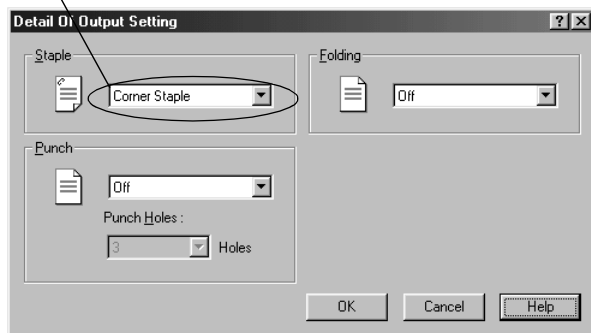
TIP

The Duplex/Booklet icon shows which edge is to be bound.

2. Printing on Both Sides of the Paper

- If you want to staple the printed pages, click “Detail Of Output Setting” to open the dialog box and select “Corner Staple” in “Staple.” Then, click the [OK] button.

Specify staple position.



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NOTES

- When “Long Edge Binding” is selected, “Short Edge” cannot be selected for punch hole.
- When “Short Edge Binding” is selected, “Long Edge” cannot be selected for punch hole.

TIP

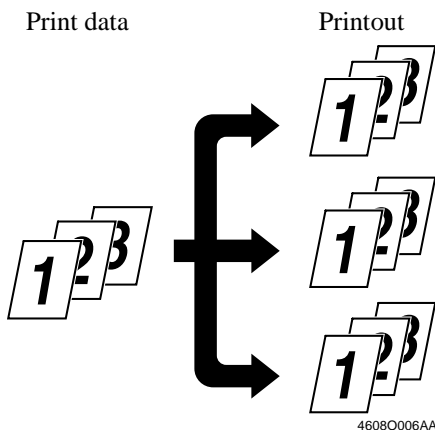
To make holes in the printed pages, select “Long Edge” or “Short Edge” in “Punch” on “Detail of Output Setting.”

- Make other settings as necessary and click the [OK] button.
- The Print dialog box will reappear. Click the [OK] button.
- The data will then be transferred to the machine and printing will soon start.

3. Printing More than One Copy at a Time

Overview

This section explains how to print two or more copies of a document that has been created with an application. Most applications allow this function to be executed from the Print dialog box. This section explains how to print two or more set copies of documents created with an application. Most applications allow this function to be executed from the Print dialog box. The steps described in the following are used to print two or more collated sets of copies by using the Collate function on the printer driver.



Procedure

1. Start printing from the application which has been used to create the document: Normally, printing can be started by selecting “Print” from the “File” menu.
2. The Print dialog box will appear. Make sure that “Digital Copier 55cpm PCL6” is displayed for “Name” in “Printer”, and click the “Properties” button.

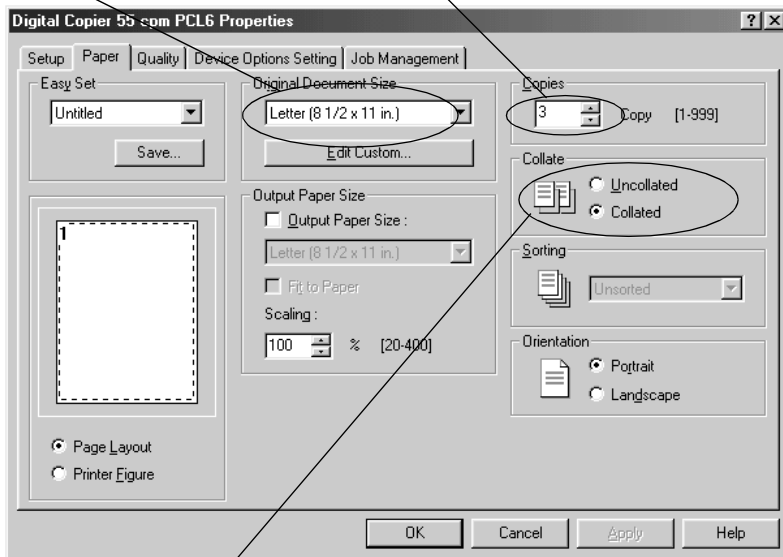
NOTE

Some applications allow you to set Copies and Collate (Sort) in the Print dialog box. To ensure proper printing operation, however, turn OFF these items of the application, and make the necessary settings in each property sheet of the printer driver.

3. The “Digital Copier 55cpm PCL6 Properties” dialog box will appear. If the “Paper” property sheet is not displayed, click the “Paper” tab.

3. Printing More than One Copy at a Time

4. Make sure that the size of the document created with the application is displayed in “Original Document Size.”
4. Check “Original Document size.”
5. Set the number of copies to be printed.



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6. Specify Collated.
5. In “Copies”, set the number of copies to be printed.
6. In “Collate”, select “Collated” so that the printed pages will be sorted into copy sets.

TIP

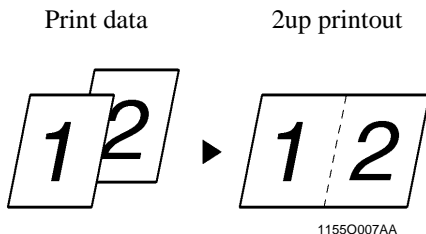
When “Uncollated” is selected, printed pages will be sorted into groups of identical pages.

7. Make other settings as necessary and click the [OK] button.
8. The Print dialog box will reappear. Click the [OK] button.
9. The data will then be transferred to the machine and printing will soon start.

4. Specifying N-up Printing

Overview

This section explains how to print two pages on one side of a sheet of paper (2 up). The same procedure is applicable when you want to perform 4 up, 6 up, 9 up or 16 up printing.



Procedure

1. Start printing from the application which has been used to create the document:
Normally, printing can be started by selecting “Print” from the “File” menu.
2. The Print dialog box will appear.
Make sure that “Digital Copier 55cpm PCL6” is displayed for “Name” in “Printer”, and click the “Properties” button.

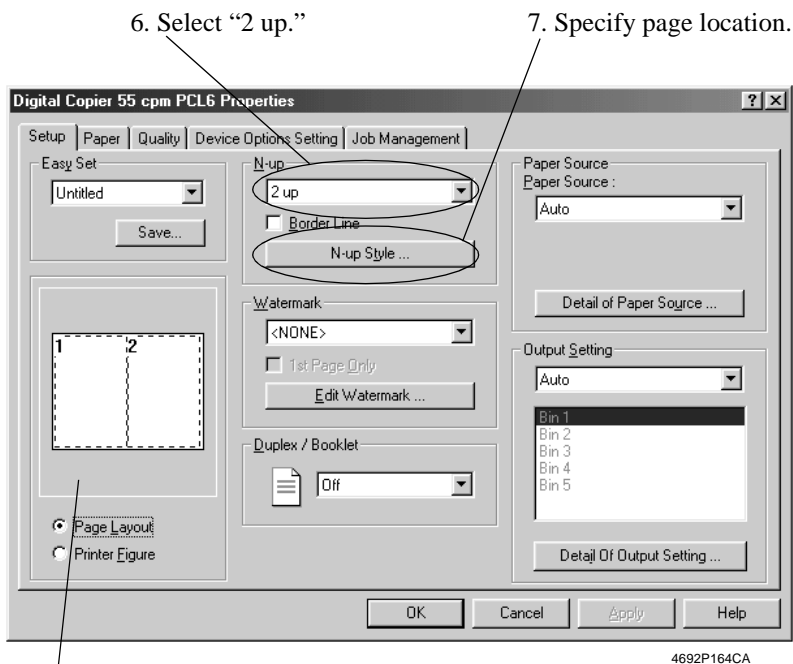
NOTE

Some applications allow you to set Copies and Collate (Sort) in the Print dialog box. To ensure proper printing operation, however, turn OFF these items of the application, and make the necessary settings in each property sheet of the printer driver.

3. The “Digital Copier 55cpm PCL6 Properties” dialog box will appear.
4. Make sure that the size of the document created with the application is displayed in “Original Document Size” on the “Paper” property sheet.
5. Click the “Setup” tab.

4. Specifying N-up Printing

6. Select “2 up” in “N-up”.



Allows you to check page order.

7. Click “N-up style” to open the dialog box and set the “Page Location.”
8. Make other settings as necessary and click the [OK] button.
9. The Print dialog box will reappear. Click the [OK] button.
10. The data will then be transferred to the machine and printing will soon start.

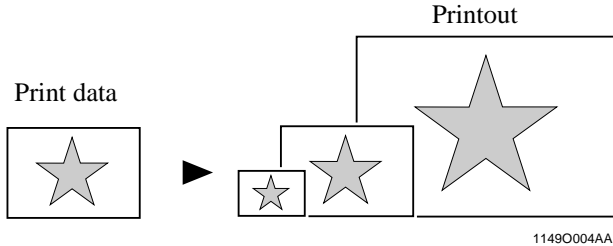
NOTE

Void image and image overlap may result in printing of a document that contains pages of assorted sizes and directions.

5. Printing in Reduced/Enlarged Size

Overview

This section explains how to enlarge or reduce the image on a document created with an application for printing on paper of a designated output size.



Procedure

1. Start printing from the application which has been used to create the document:
Normally, printing can be started by selecting "Print" from the "File" menu.
2. The Print dialog box will appear.
Make sure that "Digital Copier 55cpm PCL6" is displayed for "Name" in "Printer", and click the "Properties" button.

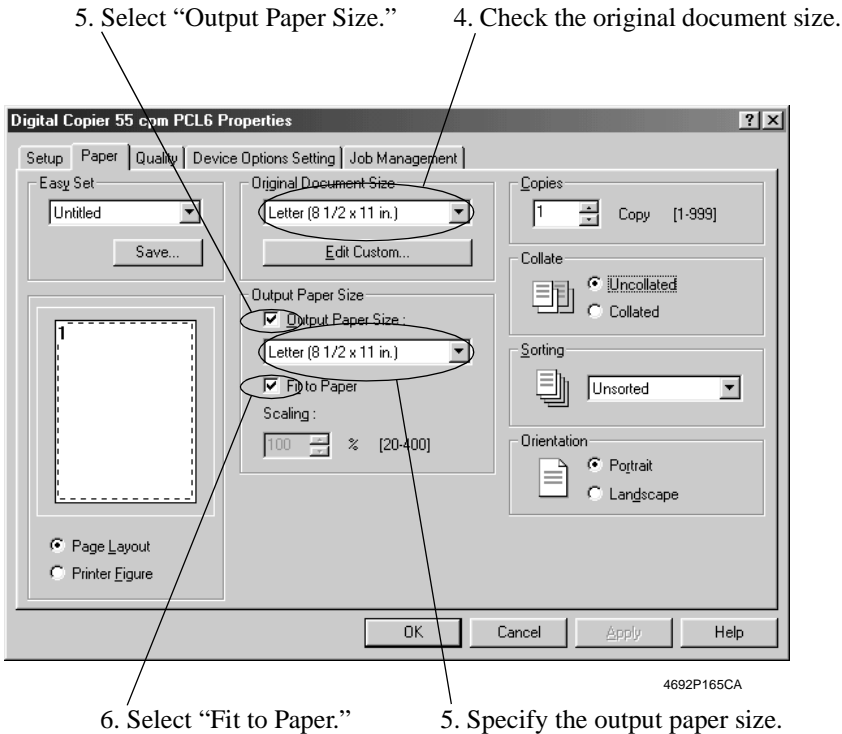
NOTE

Some applications allow you to set Copies and Collate (Sort) in the Print dialog box. To ensure proper printing operation, however, turn OFF these items of the application, and make the necessary settings in each property sheet of the printer driver.

3. The "Digital Copier 55cpm PCL6 Properties" dialog box will appear.
If the "Paper" property sheet is not displayed, click the "Paper" tab.

5. Printing in Reduced/Enlarged Size

- Make sure that the size of the document created with the application is displayed in “Original Document Size.”



- Specify “Output Paper Size” in “Output Paper Size” item and select the print page size.
- Select “Fit to Paper” and specify the zoom ratio matching the output paper.

TIP

When “Fit to Paper” is not specified, zoom ratio in “scaling” will be effective.

- Make other settings as necessary and click the [OK] button.
- The Print dialog box will reappear. Click the [OK] button.
- The data will then be transferred to the machine and printing will soon start.

5. Printing in Reduced/Enlarged Size

NOTES

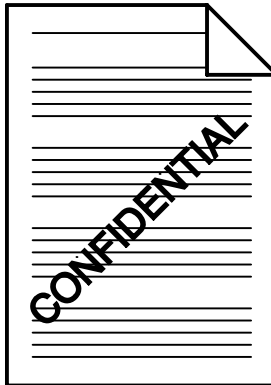
- *If a paper size that does not match the paper loaded in the machine is selected, the machine will display a message that prompts you to load paper in the manual feed port, entering standby state.*
 - *“Fit to Paper” cannot be selected if “Custom Paper” is selected in “Output Paper Size.” To enlarge or reduce the image, directly input the zoom ratio in “Scaling.”*
-

6. Printing Pages with Watermarks

Overview

This section explains how to print pages with text (e.g. Confidential, Draft) in the background.

Watermark print



4608O001AA

Procedure

Depending on environment used, Watermark may not be edited. If registration is necessary, perform registration first, referring to Appendix A. ➔ p.A-6

1. Start printing from the application which has been used to create the document:
Normally, printing can be started by selecting “Print” from the “File” menu.
2. The Print dialog box will appear.
Make sure that “Digital Copier 55cpm PCL6” is displayed for “Name” in “Printer”, and click the “Properties” button.

NOTE

Some applications allow you to set Copies and Collate (Sort) in the Print dialog box. To ensure proper printing operation, however, turn OFF these items of the application, and make the necessary settings in each property sheet of the printer driver.

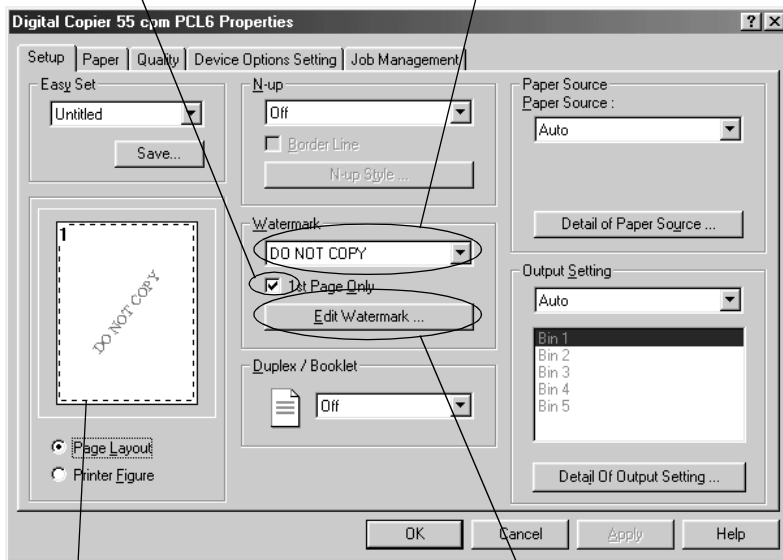
3. The “Digital Copier 55cpm PCL6 Properties” dialog box will appear.
4. Make sure that all setting items, such as “Original Document Size”, are correctly set on the “Paper” property sheet.

6. Printing Pages with Watermarks

5. Click the “Setup” tab and select “DO NOT COPY” in “Watermark.”

6. Select “1st Page Only.”

5. Select “DO NOT COPY.”



Allows you to view a print sample.

7. Select the text editing.

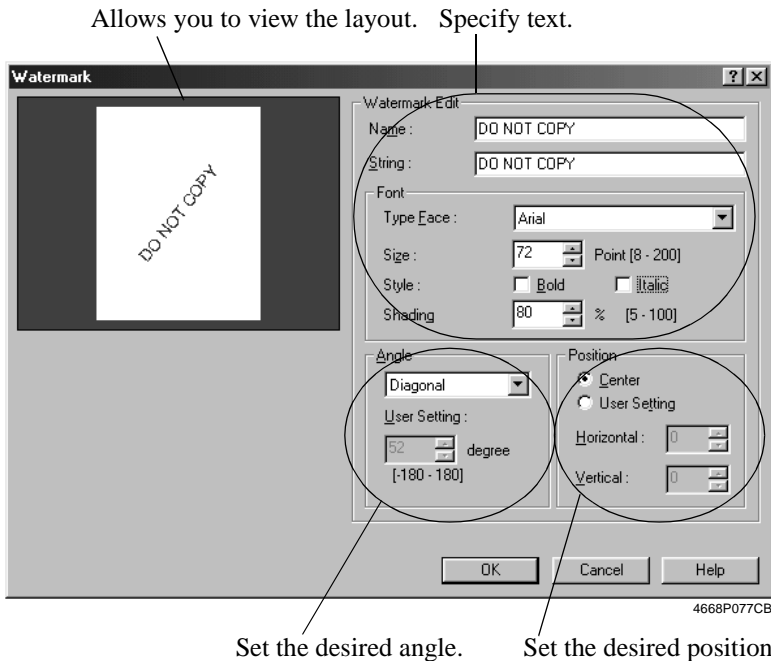
6. Select the page on which to print the watermark.

6. Printing Pages with Watermarks

7. If you want to change the position or style of an existing watermark, click [Edit] button: “Watermark” dialog box, from which you can edit text, will appear. Specify “Text” and text style, “Angle,” and “Position.”

TIPS

- If you cannot find an appropriate watermark, click [New] button: You can create new watermark.
- For the position, specify the distance from the center.



8. After the settings have been made, click the [OK] button to close the dialog box.
9. Make other settings as necessary and click the [OK] button.
10. The Print dialog box will reappear. Click the [OK] button.
11. The data will then be transferred to the machine and printing will soon start.

NOTE

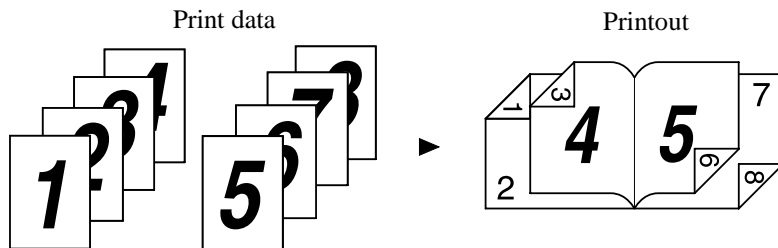
This function may not be effective in some applications.

7. Specifying Booklet Printing

Overview

This section explains how to layout and print four pages of a document on both sides of a single sheet of paper so that the printout may be folded at its center to form a booklet.

To use this function, a Dup + 2way Tray, Dup + LCC or Duplex Cabinet must be mounted on the machine.



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Procedure

1. Start printing from the application which has been used to create the document:
Normally, printing can be started by selecting “Print” from the “File” menu.
2. The Print dialog box will appear.
Make sure that “Digital Copier 55cpm PCL6” is displayed for “Name” in “Printer”, and click the “Properties” button.

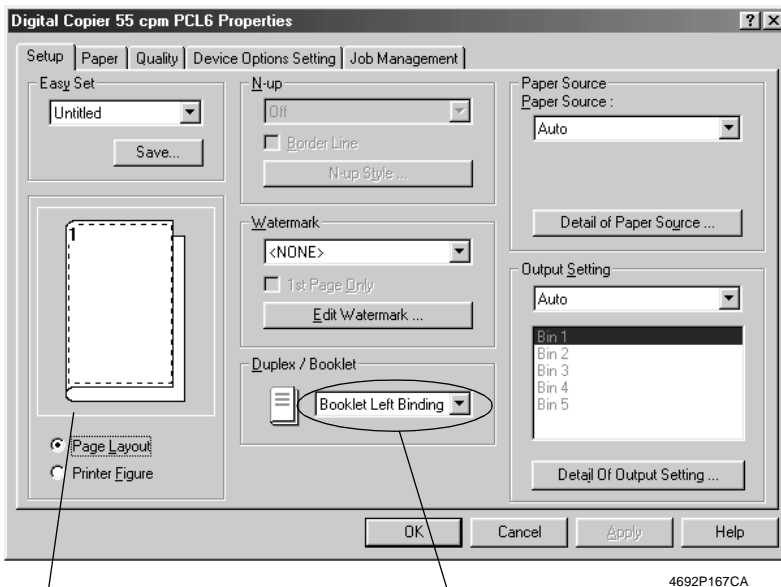
NOTE

Some applications allow you to set Copies and Collate (Sort) in the Print dialog box. To ensure proper printing operation, however, turn OFF these items of the application, and make the necessary settings in each property sheet of the printer driver.

3. The “Digital Copier 55cpm PCL6 Properties” dialog box will appear.
4. Make sure that the size of the document created with the application is displayed in “Original Document Size” on the “Paper” property sheet.
5. Select “Collated” for “Collate.”
6. Click the “Setup” tab.

7. Specifying Booklet Printing

7. Select “Booklet Left Binding” in “Duplex/Booklet.”



Allows you to check for layout.

7. Specify booklet.

8. Make other settings as necessary and click the [OK] button.
9. The Print dialog box will reappear. Click the [OK] button.
10. The data will then be transferred to the machine and printing will soon start.

NOTE

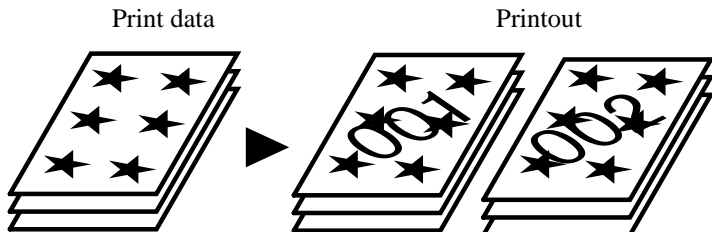
If the original document for a printing job contains a page of a different size or different direction from the others, and this document is printed, a void image or overlapped image could result.

8. Printing Pages with a Distribution Number

Overview

This section explains how to print a distribution number in the background for each copy set.

To use this function, a Hard Disk Drive in Copier must be mounted on the machine.



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NOTE

The orientation of the distribution number may not match that of the print image.

Procedure

1. Start printing from the application which has been used to create the document:
Normally, printing can be started by selecting “Print” from the “File” menu.
2. The Print dialog box will appear.
Make sure that “Digital Copier 55cpm PCL6” is displayed for “Name” in “Printer”, and click the “Properties” button.

NOTE

Some applications allow you to set Copies and Collate (Sort) in the Print dialog box. To ensure proper printing operation, however, turn OFF these items of the application, and make the necessary settings in each property sheet of the printer driver.

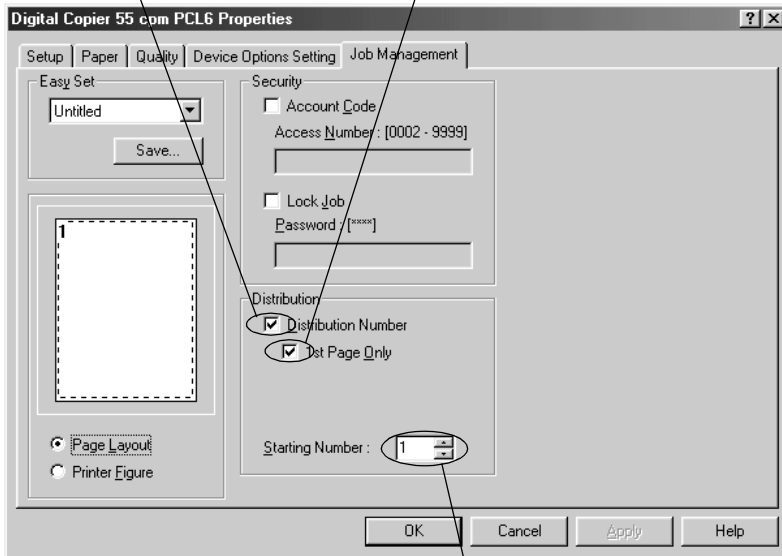
3. The “Digital Copier 55cpm PCL6 Properties” dialog box will appear.
4. Make sure that all setting items, such as “Original Document Size”, are correctly set on the “Paper” property sheet.
5. Select “Collated” for “Collate.”

8. Printing Pages with a Distribution Number

6. Click the “Job Management” tab and check the “Distribution Number.”

6. Select “Distribution number.”

7. Select “1st Page Only.”



8. Specify the starting distribution number.

7. Select the page on which to print the distribution number, either 1st Page only or All Pages.

8. Specify the starting distribution number for “Starting Number.”

9. Make other settings as necessary and click the [OK] button.

10. The Print dialog box will reappear. Click the [OK] button.

11. The data will then be transferred to the machine and printing will soon start.

9. Using the Copy Track Function

Overview

It is possible to keep track of the number of prints produced by each account. Setting of the machine specifies 100-account management or 1000-account management.

Procedure

1. Start printing from the application which has been used to create the document:
Normally, printing can be started by selecting “Print” from the “File” menu.
2. The Print dialog box will appear.
Make sure that “Digital Copier 55cpm PCL6” is displayed for “Name” in “Printer”, and click the “Properties” button.

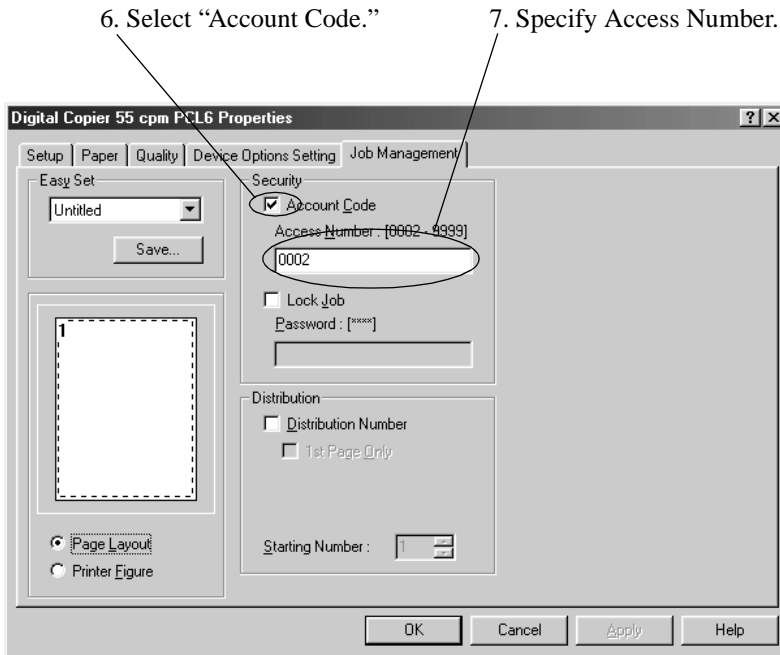
NOTE

Some applications allow you to set Copies and Collate (Sort) in the Print dialog box. To ensure proper printing operation, however, turn OFF these items of the application, and make the necessary settings in each property sheet of the printer driver.

3. The “Digital Copier 55cpm PCL6 Properties” dialog box will appear.
4. Make sure that the size of the document created with the application is displayed in “Original Document Size” on the “Paper” property sheet.
5. Click the “Job Management” tab.

9. Using the Copy Track Function

- Apply check mark to “Account Code.”



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- Input Access Number.
- Make other settings as necessary and click the [OK] button.
- The print dialog box will reappear. Click the [OK] button.
- The data will then be transferred to the machine and printing will soon start.

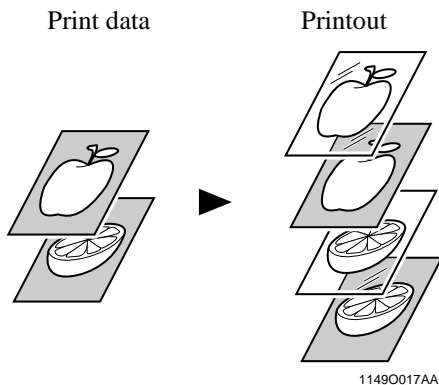
NOTES

- When Account Code is used, printing may not take place unless the account number has been correctly set.
- To clear the Account Code function, type any number in the Access Number box. If no number is typed in the Access Number box, the message “Access Number Error” will appear and you might not be able to exit from the function.

10. Printing on OHP Transparencies

Overview

This section explains how to insert a sheet of paper (interleaf) between sheets of OHP transparencies when printing on sheets of OHP transparencies. This interleaf may be left blank or have the same data printed on it as the OHP transparencies.



Procedure

1. Start printing from the application which has been used to create the document:
Normally, printing can be started by selecting “Print” from the “File” menu.
2. The Print dialog box will appear.
Make sure that “Digital Copier 55cpm PCL6” is displayed for “Name” in “Printer”, and click the “Properties” button.

NOTE

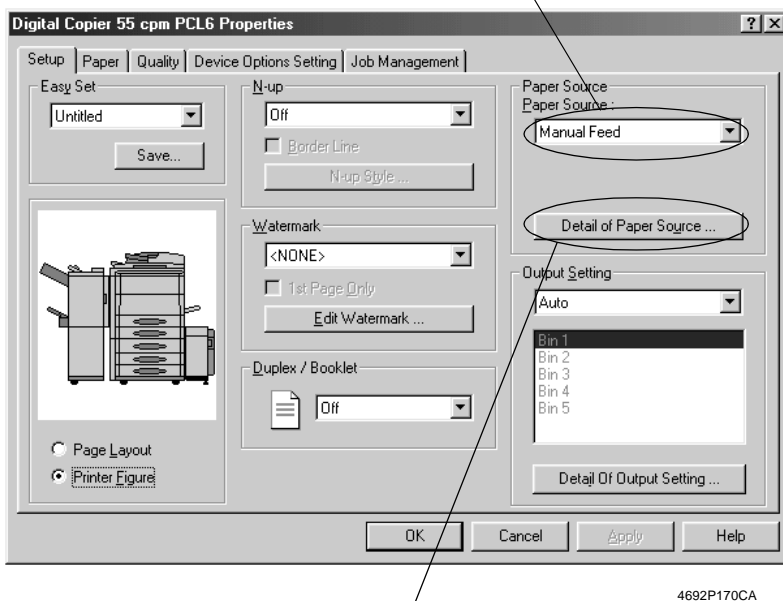
Some applications allow you to set Copies and Collate (Sort) in the Print dialog box. To ensure proper printing operation, however, turn OFF these items of the application, and make the necessary settings in each property sheet of the printer driver.

3. The “Digital Copier 55cpm PCL6 Properties” dialog box will appear.
4. Make sure that all setting items, such as “Original Document Size”, are correctly set on the “Paper” property sheet.

10. Printing on OHP Transparencies

5. Click the “Setup” tab and select the paper source for OHP transparencies in “Paper Source.”

5. Select the paper source for OHP transparencies.



6. Select to display “Detail of Paper Source” dialog box.

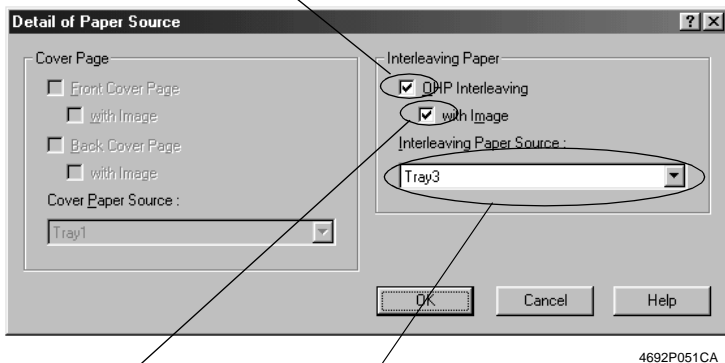
NOTE

Paper source for OHP film is Manual Feed only.

10. Printing on OHP Transparencies

6. Click the “Detail of Paper Source”: “Detail of Paper Source” dialog will appear.

7. Select “OHP interleaving.”



9. Select the paper source for interleaves.

8. Select “with Image” to print OHP data on the interleaves.

7. Apply check mark to “OHP Interleaving.”

8. Select the “with Image” box if you want the OHP data printed on the interleaves.

9. Select the paper source for interleaves in “Interleaving Paper Source.”

NOTE

The same paper source as that used for OHP transparencies cannot be specified as paper source for interleaves.

10. Click the [OK] button.

11. Make other settings as necessary and click the [OK] button.

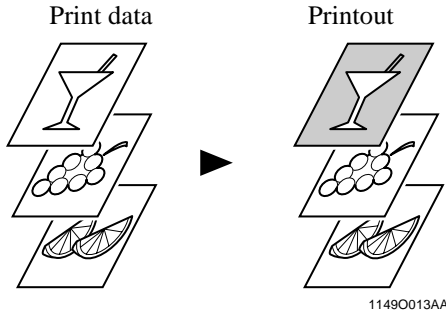
12. The Print dialog box will reappear. Click the [OK] button.

13. The data will then be transferred to the machine and printing will soon start.

11. Adding a Cover to Each Copy Set

Overview

This section explains how to add a front cover and/or a back cover to each of your copy sets. Four different modes are available to choose from. Select the appropriate one according to your needs.



Procedure

1. Start printing from the application which has been used to create the document:
Normally, printing can be started by selecting “Print” from the “File” menu.
2. The Print dialog box will appear.
Make sure that “Digital Copier 55cpm PCL6” is displayed for “Name” in “Printer”, and click the “Properties” button.

NOTE

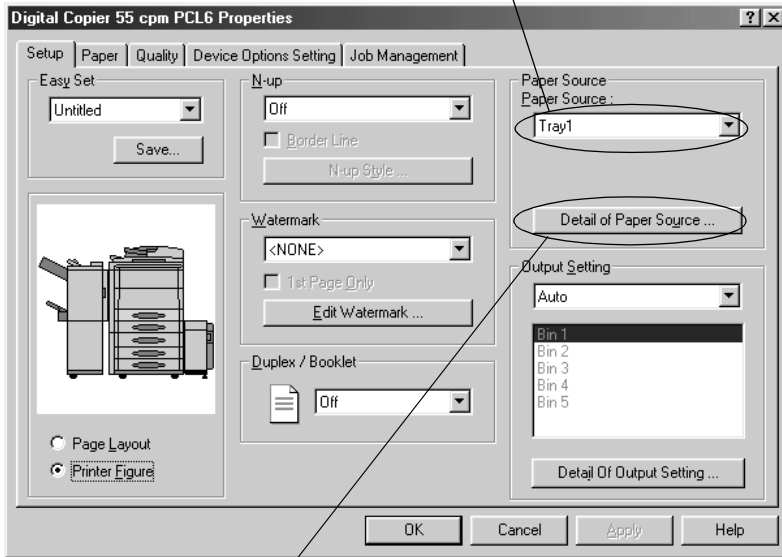
Some applications allow you to set Copies and Collate (Sort) in the Print dialog box. To ensure proper printing operation, however, turn OFF these items of the application, and make the necessary settings in each property sheet of the printer driver.

3. The “Digital Copier 55cpm PCL6 Properties” dialog box will appear.
4. Make sure that all setting items, such as “Original Document Size”, are correctly set on the “Paper” property sheet.

11. Adding a Cover to Each Copy Set

5. Click the “Setup” tab and select the paper source for text in “Paper Source.”.

5. Select the paper source for text.



6. Specify to display the “Detail of Paper Source” dialog box.

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NOTE

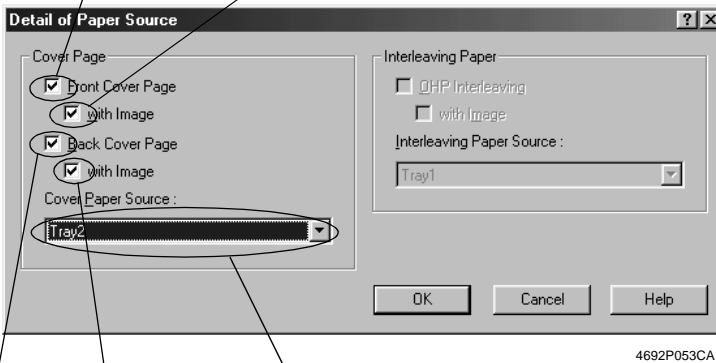
Paper sources for text are Manual Feed, Tray 1, 2, 3, 4, LCC and LCT.

11. Adding a Cover to Each Copy Set

6. Click the “Detail of Paper Source”: “Detail of Paper Source” dialog box will appear.

7. Select the front cover page function.

8. Select to print data on the front cover.



10. Specify the paper source for front/back cover.

9. Select to print data on the back cover.

9. Select to add a back cover.

7. Apply check mark to “Front Cover Page.”

8. Select the “with Image” box if you want data printed on the front cover.

9. Select whether to add a back cover and, if the back cover is to be added, select whether to print data on the back cover using “Back Cover Page” and “with Image.”

10. Select the paper source for the front/back cover under “Cover Paper Source.”

NOTE

Paper sources for cover page are Manual Feed, Tray 1, 2, 3, 4, LCC and LCT.

11. Click the [OK] button.

12. Make other settings as necessary and click the [OK] button.

13. The Print dialog box will reappear. Click the [OK] button.

14. The data will then be transferred to the machine and printing will soon start.

12. Using the Lock Job (Print PC Confidential) Function

Overview

Lock Job allows you to keep a particular document confidential so that document can be printed only after a password is entered on the machine.

Job List						
Mode Check		Change		Delete		UnLock
#	Orig	Copy	Input Time	Fin. Time	Stat- us	Device
1	999	52	10:05		Lock	Printer
Memory Free		99%		Time		10:10

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Procedure on the Printer Driver Side

1. Start printing from the application which has been used to create the document: Normally, printing can be started by selecting “Print” from the “File” menu.
2. The Print dialog box will appear. Make sure that “Digital Copier 55cpm PCL6” is displayed for “Name” in “Printer”, and click the “Properties” button.

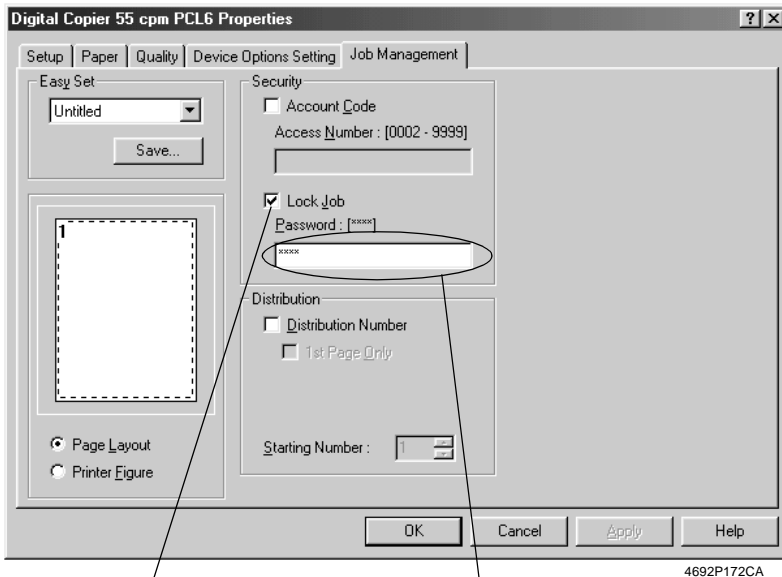
NOTE

Some Applications allow you to set Copies and Collate (Sort) in the Print dialog box. To ensure proper printing operation, however, turn OFF these items of the application, and make the necessary settings in each property sheet of the printer driver.

3. The “Digital Copier 55cpm PCL6 Properties” dialog box will appear.
4. Make sure that all setting items, such as “Original Document Size”, are correctly set on the “Paper” property sheet.
5. Click the “Job Management” tab.

12. Using the Lock Job (Print PC Confidential) Function

- Apply check mark to “Lock Job.”



6. Specify “Lock Job.”

7. Set password.

- Input password.

NOTE

To clear the Lock Job function, type any number in the Password box. If no number is typed in the Password box, the message “Password Error” will appear and you might not be able to exit from the function.

TIP

Password is 4-digit number, from 0000 to 9999. If you enter a 3-digit number for password, it will be regarded as 4-digit number, automatically adding “0” to the head.

- Make other settings as necessary and click the [OK] button.
- The Print dialog box will appear. Click the [OK] button.
- The data will be transferred to the machine, but printing will not yet start.

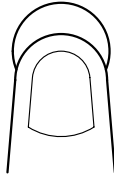
12. Using the Lock Job (Print PC Confidential) Function

Procedure on the Machine Side (Unlocking a Job)

After the data has been transferred to the machine, operate the machine to start printing.

1. Press the Job List key on the control panel.

Job List



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2. Touch the [Unlock] key.

Job List						
Mode Check		Change		Delete		Unlock
#	Orig	Copy	Input Time	Fin. Time	Stat-	Device
					us	
1	999	52	10:05		Lock	Printer
Memory Free	99%		Time	10:10		

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12. Using the Lock Job (Print PC Confidential) Function

3. Input password.



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NOTE

All jobs, whose preprogrammed passwords match the password entered, are “unlocked.”

4. The job is “unlocked” and printing will start.

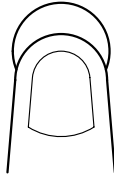
12. Using the Lock Job (Print PC Confidential) Function

Procedure on the Machine Side (Deleting a Job)

After the data has been transferred to the machine, it can be deleted without being printed.

1. Press the Job List key on the control panel.

Job List



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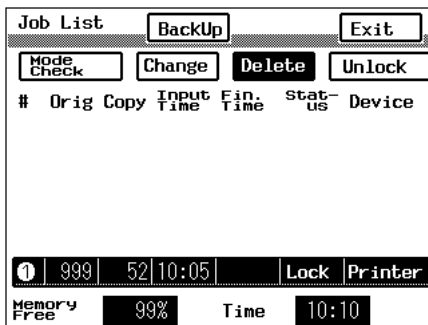
2. Touch the [Delete] key.

Job List					
Mode Check		Change		Delete	
BackUp		Exit		Unlock	
#	Orig Copy	Input Time	Fin. Time	Stat- us	Device
1	999	52	10:05		Lock Printer
Memory Free		99%		Time 10:10	

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12. Using the Lock Job (Print PC Confidential) Function

3. Select job to be deleted.



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4. Touch the [Yes] key.



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5. This deletes the job from the job list.

TIP

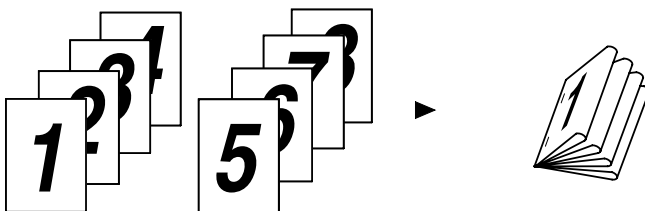
No password is necessary to delete a job.

13. Using the Folding Function

Overview

A multi-page document prepared in an application can be finished into a book form through Half Folding and Staple.

To use this function, a Folding Finisher must be mounted on the machine. The function is enabled only when the PS driver is used.



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Procedure

1. Start printing from the application which has been used to create the document:
Normally, printing can be started by selecting “Print” from the “File” menu.
2. The Print dialog box will appear.
Make sure that “Digital Copier 55cpm PS” is displayed for “Name” in “Printer”, and click the “Properties” button.

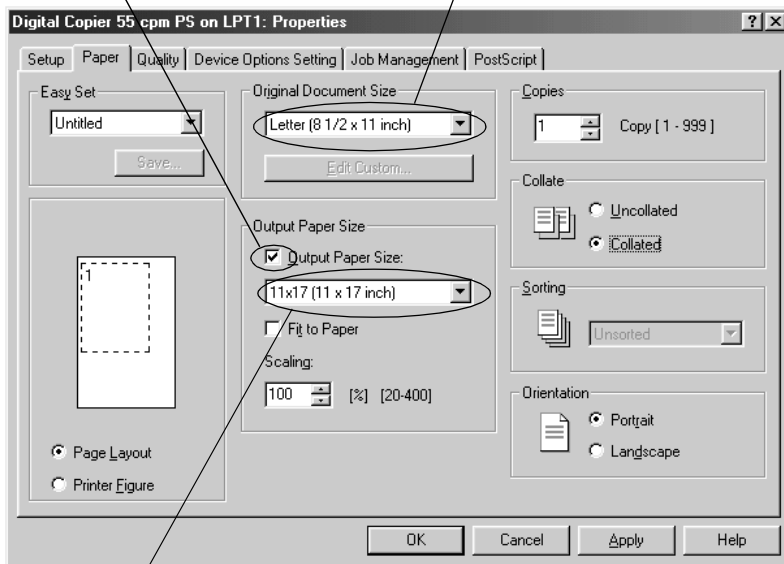
NOTE

Some Applications allow you to set Copies and Collate (Sort) in the Print dialog box. To ensure proper printing operation, however, turn OFF these items of the application, and make the necessary settings in each property sheet of the printer driver.

3. The “Digital Copier 55cpm PS Properties” dialog box will appear.

13. Using the Folding Function

4. Make sure that “Original Document Size” is correctly set on the “Paper” property sheet.
5. Select “Output Paper Size.”
4. Check the original document size.



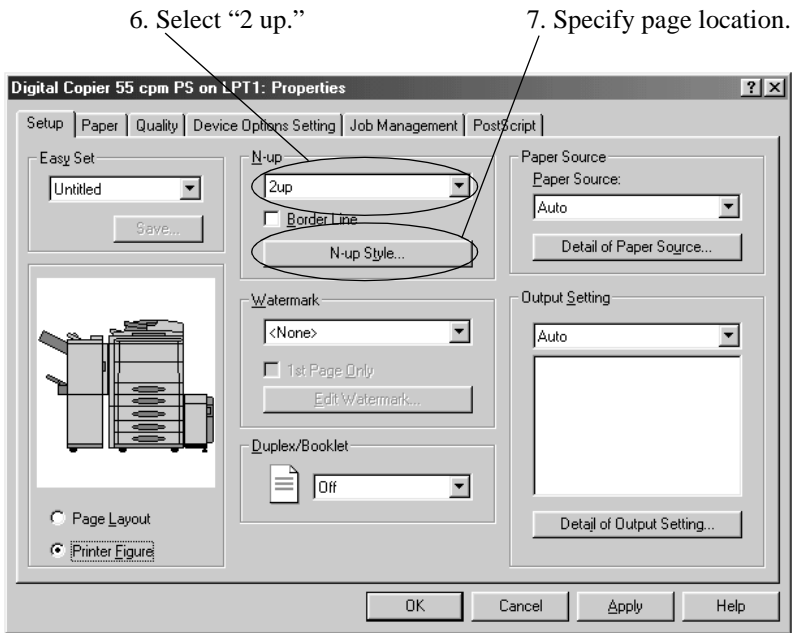
4692P174CA

5. Specify the output paper size.

5. Check the “Output Paper Size” box and select 11×17.

13. Using the Folding Function

6. Select “2 up” in “N-up”.

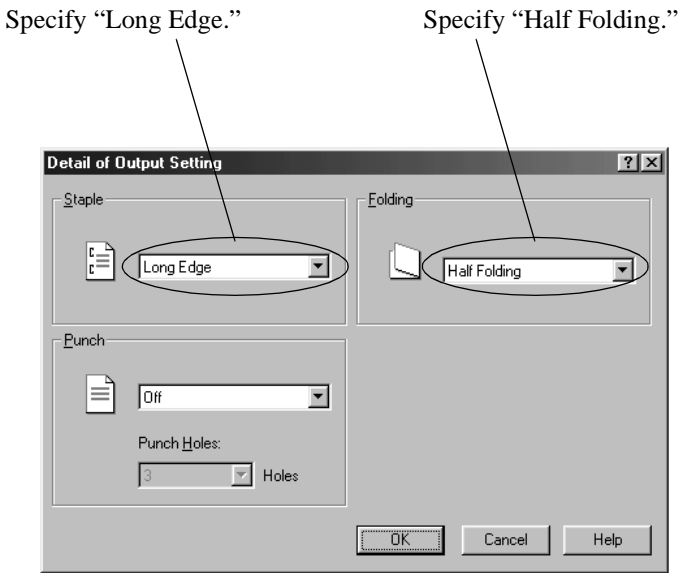


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7. Click [N-up Style] to open its dialog box. Then, set [Page Location] to [Horiz. Ascending] and click the [OK] button.

13. Using the Folding Function

8. Click “Detail Of Output Setting” to open the dialog box.



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9. Specify “Half Folding” under “Folding.”
10. Specify “Long Edge” under “Staple.”
11. Click the [OK] button.
12. Make other settings as necessary and click the [OK] button.
13. The Print dialog box will reappear. Click the [OK] button.
14. The data will then be transferred to the machine and printing will soon start.

14. Using the Settings Function

Overview

Frequently used groupings of print settings can be stored and called up as necessary for application in actual print jobs.

Procedure

Operations with “Easy Set” are storing, calling up and deleting.

Depending on environment used, number of registrations will be different: Refer to Appendix A for details. ☞ p.A-5

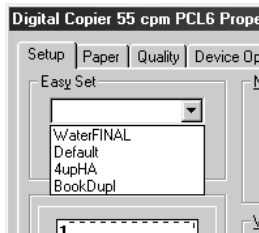
Using the Settings Stored for a Current Print Job

1. Start printing from the application which has been used to create the document:
Normally, printing can be started by selecting “Print” from the “File” menu.
2. The Print dialog box will appear.
Make sure that “Digital Copier 55cpm PCL6” is displayed for “Name” in “Printer”, and click the [Properties] button.

NOTE

Some Applications allow you to set Copies and Collate (Sort) in the Print dialog box. To ensure proper printing operation, however, turn OFF these items of the application, and make the necessary settings in each property sheet of the printer driver.

3. The “Digital Copier 55cpm PCL6” dialog box will appear.
4. Click the down-arrow “▼” of “Easy Set Name” and from subsequent menu, select the Title name to be used.



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5. Dialog box for confirmation will appear. Click the [OK] button. The setting data will then be read to the driver software.
6. Click the [OK] button.
7. The Print dialog box will appear. Click the [OK] button.
8. The data will then be transferred to the machine and printing will soon start.

14. Using the Settings Function

Storing settings

1. Start printing from the application which has been used to create the document:
Normally, printing can be started by selecting “Print” from the “File” menu.
2. The Print dialog box will appear.
Make sure that “Digital Copier 55cpm PCL6” is displayed for “Name” in “Printer”, and click the [Properties] button.

NOTE

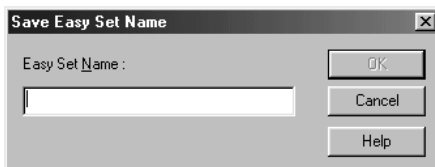
Some Applications allow you to set Copies and Collate (Sort) in the Print dialog box. To ensure proper printing operation, however, turn OFF these items of the application, and make the necessary settings in each property sheet of the printer driver.

3. The “Digital Copier 55cpm PCL6” dialog box will appear.
4. Make settings in “Setup”, “Paper”, “Quality”, “Job Management” and “PostScript” properties as necessary.
5. Click the [Save] button.

TIP

If setting is changed as in step 4, the Easy Set Name becomes “Untitled” and [Save] button will appear.

6. The “Save Easy Set Name” dialog box will appear. Input the Easy Set Name to be registered and click the [OK] button.



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TIP

If the same Easy Set Name already exists, a dialog box asking whether it should be over-written or not will appear.

7. Click the [OK] button.

14. Using the Settings Function

8. The print dialog box will then reappear. To start printing immediately, click the [OK] button: The data will be transferred to the machine and printing will soon start. If printing is not to be done now, click the [Cancel] button.
-

NOTES

- *Settings can be stored from the printer icon property sheet opened from the Printers window.*
 - *With PS, it is not possible to save the settings if the function has been activated from the application. Start the function using the printer icon.*
 - *The same procedure also applies when the printer icon property sheet is used. However, be sure to click the [Cancel] button to close the property sheet: If it is closed by clicking the [OK] button, the settings will become the default values when the property sheet is accessed from the application.*
-

14. Using the Settings Function

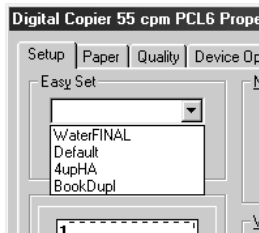
Deleting Settings Which Have Been Stored

1. Start printing from the application which has been used to create the document: Normally, printing can be started by selecting “Print” from the “File” menu.
2. The Print dialog box will appear.
Make sure that “Digital Copier 55cpm PCL6” is displayed for “Name” in “Printer”, and click the [Properties] button.

NOTE

Some Applications allow you to set Copies and Collate (Sort) in the Print dialog box. To ensure proper printing operation, however, turn OFF these items of the application, and make the necessary settings in each property sheet of the printer driver.

3. The “Digital Copier 55cpm PCL6” dialog box will appear.
4. Click the down arrow “▼” of “Easy Set Name” and, from subsequent menu, select the name to be used.



4692P173CA

5. Dialog box for confirmation will appear. Click the [OK] button: The setting data will then be read to the driver software.
6. Click the [Delete] button.
7. Dialog box for confirmation will appear. Click the [OK] button: The title name will disappear and the setting data will be deleted.

NOTE

If the setting contents are changed before deleting, the Easy Set Name will change to “Untitled” and the [Delete] button will change to the [Save] button. Deleting cannot be performed in this status.

14. Using the Settings Function

8. Click the [OK] button.
 9. The print dialog box will then reappear. Click the [Cancel] button.
-

NOTES

- *Settings can also be deleted from the printer icon property sheet opened from the Printers window.*
 - *With PS, it is not possible to save the settings if the function has been activated from the application: Start the function using the printer icon.*
 - *The detailed print settings remain valid even after the Easy Set Name has been cleared from the options list.*
-

15. Confirming that the data has been transferred to the machine

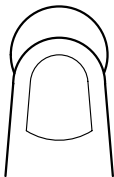
Overview

Status of data transferred from the personal computer will be displayed in Job List.

Procedure

1. Press the Job List key on the control panel.

Job List



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2. Job list will be displayed.

Job List							Next	Exit
#	Orig	Copy	Input Time	Fin. Time	Stat-us	Device		
1	999	999	10:05	10:50	Print	Copier		
2	1	5	10:09	10:55	Wait	Copier		
3	9	99	10:12	11:00	Wait	Copier		
4	19	20	10:19	11:05	Wait	Printer		
5	999	52	11:05	11:15	Scan	Copier		
Memory Free			90%		Time		11:10	

4692P122CA

TIP

- For printing a lock job, refer to “Procedure on the machine Side (unlocking a Job)” in “12. Using the Lock Job (Print PC Confidential) Function.” [p.4-30](#)
- For unlocking the job, refer to “Procedure on the Machine Side (Deleting a Job)” in “12. Using the Lock Job (Print PC Confidential) Function.” [p.4-32](#)

Chapter 5

Troubleshooting

1. Troubleshooting

Unable to Print

This chapter explains about the troubleshooting procedures for possible malfunctions. Perform the troubleshooting procedures given below in that order when the machine is unable to print even if you execute a print command from your computer.

Symptom	Possible Cause	Action
A message appears on the computer screen, saying to the effect that “no printer is connected,” “no paper is loaded,” or “LPT1 write error.”	An error is present in the machine.	Check the control panel of the machine. If an error is displayed, identify the error and take the necessary action by referring to “Error List” on p.5-10.
	The printer cable or network cable is disconnected.	Check that the printer cable or network cable is connected properly to the computer and controller.
Printing does not start despite the completion of printing setup on the computer.	An error is present in the machine.	Check the control panel of the machine. If an error is displayed, identify the error and take the necessary action by referring to “Error List” on p.5-10.
	The printer cable or network cable is disconnected.	Check that the printer cable or network cable is connected properly to the computer and controller.
	The printer driver selected for printing is not for the controller.	Check the printer name selected in the “Print” dialog box.
	A print job yet to be processed is loaded in the machine, causing the printer to wait.	Refer to the Job List on the machine control panel to check for print order.

1. Troubleshooting

Symptom	Possible Cause	Action
Continued from the previous page (Printing does not start despite the completion of printing setup on the computer.)	The print job is locked.	Refer to the Job List on the machine control panel to see if the print job in question is locked. If so, unlock it.
	The connection of the controller to the network has not been established.	Consult the network administrator.
	The print job was canceled.	Check the status on the “Incompleted Job Queue” of “Printer Management Utility”.
	Machine memory space available is not sufficient.	Add the machine memory to expand its space.
	If the copy track function is enabled, an illegal access number might have been entered.	Enter the correct access number.
Multiple copy sets are mistakenly sorted and stapled together as a single large set.	The settings in certain DTP software applications may conflict with the printer driver settings.	In the application, turn OFF Collate and set the copy count to one. In the printer driver, make the desired Collate, Sorting and copy count settings.
A large number of copies are mistakenly printed.	The settings in certain DTP software applications may conflict with the printer driver settings.	In the application, turn OFF Collate and set the copy count to one. In the printer driver, make the desired Collate, Sorting and copy count settings.
A document containing more than 40 pages cannot be printed.	The maximum number of document pages that can be stored in the standard memory is 40.	<ul style="list-style-type: none"> • Decrease the number of document pages or add memory to expand its capacity. • Select “Printer” for “Priority Device” available in 6/6 of User’s Choice on the machine.

1. Troubleshooting

Symptom	Possible Cause	Action
A PS error print is output.	Some applications allow you to select either “Binary” or “ASCII” mode when the PS driver is being used. A PS error could result if an attempt is made to print in the “Binary” mode.	Select the “ASCII” mode.

If the problem persists even after these checks have been made, refer to the documentation provided for the machine.

Unable to Make Correct Settings / Unable to Print Exactly as Set

Perform the troubleshooting procedures given below in that order when you cannot make proper settings in the printer driver or when the print results do not represent what has been set.

Symptom	Possible Cause	Action
Unable to select an item in the printer driver.	Some functions cannot be combined.	Do not select items which are dimmed.
The “Conflicts” dialog box is displayed on the computer screen.	An illegal combination of functions has been made.	Check for combination and make a correct combination of functions.
Unable to print exactly as set.	Incorrect settings are made.	Check the setting for each item of the printer driver.
	The combination of the functions, though valid on the printer driver, is invalid on the machine.	
The watermark cannot be printed.	The watermark is not correctly set.	Check the watermark setting.
	The “Darkness” setting of the watermark is low.	Check the “Darkness” setting of the watermark.
Unable to specify Staple.	Staple can be specified only when the type of Finisher you are using is selected on the “Device Options Setting” property sheet and “Auto” is selected for “Output Setting” on the “Setup” property sheet.	Select the type of Finisher you are using on the “Device Options Setting” property sheet, and select “Auto” for “Output Setting” on the “Setup” property sheet.

1. Troubleshooting

Symptom	Possible Cause	Action
Unable to specify Staple.	No stapling can be effected in the following case: Paper size other than 182 × 182 mm to 297 × 432 mm is specified, paper source is manual feed port, exit port other than “Auto” is selected, Booklet is specified, OHP Interleaving is specified, Uncollated is specified.	Check the setting of the paper size, paper source, exit port, Booklet, OHP Interleaving, and Collated.
Unable to staple properly.	No stapling can be effected if the type of paper is thick paper or OHP transparencies.	Check the type of paper.
	When Mailbin Finisher or Multi-staple Finisher is installed, no stapling can be effected if number of prints to be made exceeds 50.	Check the number of prints to be made.
	When Single-staple Finisher is installed, no stapling can be effected if number of prints to be made exceeds 30.	
	No stapling can be effected if the number of pages to be printed is 50 or more when a Folding Finisher is mounted. Center Staple is also disabled if the number of pages to be printed is 15 or more.	
	No stapling can be effected if original document contains pages of different sizes.	
The stapling position is opposite to what is expected.	The paper direction and N-up do not match the setting made for Orientation.	Change the setting for Orientation.

1. Troubleshooting

Symptom	Possible Cause	Action
Unable to specify Punch.	Either a Multi-staple Finisher or Mailbin Finisher must be mounted to enable setting Punch. Punch can be specified only when Multi-staple Finisher, Mailbin Finisher or Folding Finisher is selected in Device Options Setting.	Select Multi-staple Finisher, Mailbin Finisher or Folding Finisher in Device Options Setting.
	Punch cannot be specified if Booklet or OHP Interleaving is specified.	Check the setting of Booklet and OHP Interleaving.
Unable to effect Punch.	No holes can be made if the type of paper is thick paper or OHP transparencies.	Check the type of paper.
	Prints can at times be fed out without being punched if the direction of the paper loaded in the paper source is not appropriate.	Check the direction of the paper.
The hole punch position is opposite to what is expected.	The paper direction and N-up do not match the setting made for Orientation.	Change the setting for Orientation.
Folding cannot be specified.	The optional Folding Finisher is necessary for you to specify Folding. "Folding Finisher" must be selected on "Device Options Setting."	Select "Folding Finisher" on "Device Options Setting."
	Folding may be disabled when Staple or Punch is specified.	Check the settings made. (See "Function Combination Matrix" on p. A-2.)
Folding is not effected.	Folding cannot be effected if the type of paper is Thick Paper or OHP.	Check the type of paper.
Unable to print image properly.	Machine memory space available is not sufficient.	Add the machine memory to expand its space or simplify the image to reduce the amount of data handled.

1. Troubleshooting

Symptom	Possible Cause	Action
Unable to specify the exit port	No exit port can be specified if the paper size is A6 or B6, or OHP Interleaving is specified.	Check the setting of the paper size and OHP Interleaving.
Unable to properly feed prints out to the specified port.	Prints with paper size of B6 or smaller cannot be fed out if paper exit port is Mailbin.	Check the paper type and paper size.
Paper is not fed from the specified paper source.	Paper is not be fed from the specified paper source if that paper source is loaded with paper of a different size and direction.	Load the paper source with paper of the appropriate size and in the appropriate direction.
Watermark is not printed.	Watermark may not be printed in graphics applications.	No watermark can be printed in this case.
Unable to print exactly as set.	The paper size, paper direction, and other settings made on the application takes precedence over those made in the driver.	Make correct settings on the application.
Distribution cannot be specified.	To specify Distribution, a “Hard Disk Drive in Copier” that is optional on the machine is necessary. “Hard Disk Drive in Copier” must be specified in “Device Options Setting.”	Select “Hard Disk Drive in Copier” on “Device Options Setting.”

Poor Print Quality

Perform these troubleshooting procedures when you get poor print quality.

Symptom	Possible Cause	Action
Shades of gray are not clear.	Halftone setting is improperly set.	Check the setting made in “Halftone” in the “Quality” property sheet.

If the problem persists even after these checks have been made, refer to the documentation provided for the machine.

1. Troubleshooting

Error List

When an error occurs, the machine control panel gives the message of “Controller failure -> 18xx.”

The table below lists the meanings of different error codes, together with the appropriate remedial procedures. Should an error occur, identify the detail of the error and take the necessary action.

Code	Description	Action
18A0	NVRAM error Issued when a fault is found in the condition of the setting values saved in the NVRAM of the controller.	Turn OFF the power, then turn it ON. If error persists, consult your Tech. Rep.
18A1	NIC initialization error	
18A3	Version error	
18A7	ROM update data load failure	
18A8	ROM update data write failure	
18F1	Machine communications error	
18F2	Controller fatal error	
18D0	Hard disk being formatted	This error is eliminated as soon as formatting is completed.
18D1	Hard disk format error	Execute formatting from Printer Management Utility again. If error persists, consult your Tech. Rep.
18B8	Scan job canceled for short of machine memory space	Recovers 10 minutes later, or when next scan job starts. If error persists, consult your Tech. Rep.
18C0	Memory short during image conversion	
18C1	Scan job NIC processing error	

1. Troubleshooting

Code	Description	Action
18C2	Scan job controller processing error	Recovers 10 minutes later, or when next scan job starts. If error persists, consult your Tech. Rep.
18A4	ROM update data loading	Recovers as time passes, or by conducting job.
18A5	ROM update data writing	
18A6	ROM update data completed	

This manual contains the specifications for the controller. Refer to the documentation provided for the machine for the machine specifications.

1. Troubleshooting

Appendix A

1. Function Combination Matrix

		Duplex Print/Layout													
		1-sided 1up	2-sided 1up	1-sided 2, 4, 6, 9, 16up	2-sided 2, 4, 6, 9, 16up	Scaling	Booklet	Distribution Number	Watermarks	OHP Interleaving	Cover mode				
Paper Source	Auto	○	○	○	○	○	○	○	○	○	○	○	○	○	
	Tray1, 2, 3, 4	○	○	○	○	○	○	○	○	○	○	○	○	○	
	LCC	○	○	○	○	○	○	○	○	○	○	○	○	○	
	LCT	○	○	○	○	○	○	○	○	○	○	○	○	○	
	Manual Feed	○	△	○	△	○	△	○	○	○	○	○	○	○	
Finishing	Uncollated	○	○	○	○	○	○	x	x	○	○	○	○	○	
	Collated	○	○	○	○	○	○	○	○	○	○	○	○	○	
	Sorted	○	○	○	○	○	○	x	x	○	○	○	○	○	
	Staple	Off	○	○	○	○	○	○	○	○	○	○	○	○	○
		Corner	○	○	○	○	○	○	x	○	○	○	x	○	○
		Long Edge	○	○	○	○	○	○	x	○	○	○	x	○	○
		Short Edge	○	○	○	○	○	○	x	○	○	○	x	○	○
		Center	○	○	○	○	○	○	○	○	○	○	x	○	○
	Punch	Off	○	○	○	○	○	○	○	○	○	○	○	○	○
		Long Edge	○	○	○	○	○	○	x	○	○	○	x	○	○
		Short Edge	○	○	○	○	○	○	x	○	○	○	x	○	○
	Folding	Off	○	○	○	○	○	○	○	○	○	○	○	○	○
		Z-Fold	○	○	○	○	○	○	x	○	○	○	x	x	○
Half Folding		○	x	○	x	○	x	○	○	○	○	x	x	○	
Crease		○	○	○	○	○	○	A	○	○	○	x	○	○	
Duplex Print/Layout	1-sided 1up		x	x	x	x	○	○	○	○	○	○	○	○	
	2-sided 1up	x		x	x	x	x	○	○	○	x	○	○	○	
	1-sided 2, 4, 6, 9, 16up	x	x		x	x	x	○	○	○	○	○	○	○	
	2-sided 2, 4, 6, 9, 16up	x	x	x		x	x	○	○	○	x	○	○	○	
	Scaling	x	x	x	x		x	○	○	○	○	○	○	○	
	Booklet	○	x	x	x	x		○	○	○	x	○	○	○	
	Distribution Number	○	○	○	○	○	○		○	○	○	x	○	○	
Watermark	○	○	○	○	○	○	○		○	○	○	○	○		
OHP Interleaving	○	x	○	x	○	x	x	○		○	○	x	○		
Cover mode	○	○	○	○	○	○	○	○	○		x	○	○		

1. Function Combination Matrix

- : The combination is possible.
 - × : The combination is impossible.
(The settings made are rejected.)
 - : Cannot be used if the LCT rejects loading of paper in the lengthwise direction.
 - △ : Does not function if special paper setting has been made.
 - A : Can be set on the PS driver, but not on the PCL driver.
-

NOTE

Some combinations may not function properly depending on the size and direction of the paper.

2. Number of registrations

Number of registrations/Usable range for Easy Set

			Window95/98		Windows2000/NT4.0		
			Registration	Use	Registration	Use	
PCL6	Administrator	Printer icon	-	-	• 16/1 driver	○	
		Application	-	-	• 16/1 driver	○	
	Power Users	Printer icon	-	-	×	○	
		Application	-	-	×	○	
	Users	Printer icon	• 16/1 driver	○	×	○	
		Application	• 16/1 driver	○	×	○	
	PS	Administrator	Printer icon	-	-	• 32/1 driver	○
			Application	-	-	×	○
Power Users		Printer icon	-	-	• 32/1 driver	○	
		Application	-	-	×	○	
Users		Printer icon	• 32/1 driver	○	×	○	
		Application	×	○	×	○	

2. Number of registrations

Number of registrations/Usable range for Watermark

			Window95/98		Windows2000/NT4.0	
			Registration	Use	Registration	Use
PCL6	Administrator	Printer icon	-	-	• Common: 15 • Personal: 16	• Common • Personal • [All users] Personal
		Application	-	-	• Common: 15 • Personal: 16	• Common • Personal • [All users] Personal
	Power Users	Printer icon	-	-	• Common: 0 • Personal: 16/1 user	• Personal • [Administrator] Common
		Application	-	-	• Common: 0 • Personal: 16/1 user	• Personal • [Administrator] Common
	Users	Printer icon	• 32/1 driver	○	• Common: 0 • Personal: 16/1 user	• Personal • [Administrator] Common
		Application	• 32/1 driver	○	• Common: 0 • Personal: 16/1 user	• Personal • [Administrator] Common
PS	Administrator	Printer icon	-	-	• 32/1 driver	○
		Application	-	-	×	○
	Power Users	Printer icon	-	-	• 32/1 driver	○
		Application	-	-	×	○
	Users	Printer icon	• 32/1 driver	○	×	○
		Application	×	○	×	○



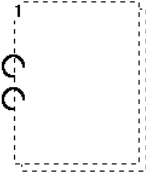
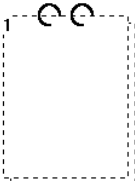

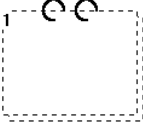
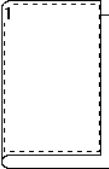

2. Number of registrations

Number of registrations/Usable range for Custom Paper


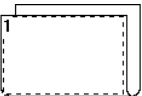

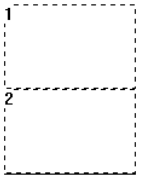
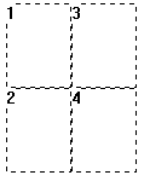
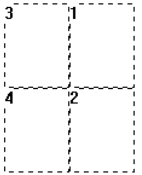
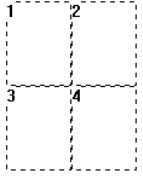
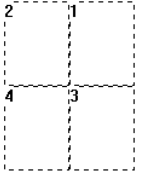
			Window95/98		Windows2000/NT4.0	
			Registration	Use	Registration	Use
PCL6	Administrator	Printer icon	-	-	• Common: 16 • Personal: 16	• Common • Personal • [All users] Personal
		Application	-	-	• Common: 16 • Personal: 16	• Common • Personal • [All users] Personal
	Power Users	Printer icon	-	-	• Common: 0 • Personal: 16/1 user	• Personal • [Administrator] Common
		Application	-	-	• Common: 0 • Personal: 16/1 user	• Personal • [Administrator] Common
	Users	Printer icon	• 32/1 driver	○	• Common: 0 • Personal: 16/1 user	• Personal • [Administrator] Common
		Application	• 32/1 driver	○	• Common: 0 • Personal: 16/1 user	• Personal • [Administrator] Common
PS	Administrator	Printer icon	-	-	• 32/1 driver	○
		Application	-	-	×	○
	Power Users	Printer icon	-	-	• 32/1 driver	○
		Application	-	-	×	○
	Users	Printer icon	• 32/1 driver	○	×	○
		Application	×	○	×	○

3. Preview Listing

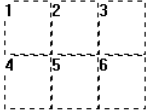
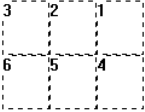
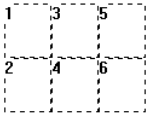
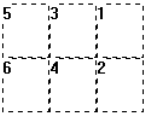
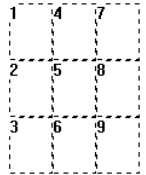
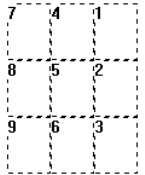
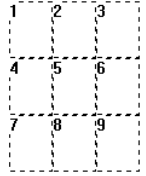
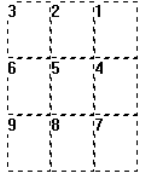
[Page Layout]

Value Defined for Print Setting Item	Screen Specifications	Value Defined for Print Setting Item	Screen Specifications
Orientation= Portrait	 4668P115CA	Orientation= Landscape	 4668P116CA
Duplex/Booklet= Long Edge Binding, Orientation= Portrait	 4668P117CA	Duplex/Booklet= Short Edge Binding, Orientation= Portrait	 4668P118CA
Duplex/Booklet= Short Edge Binding, Orientation= Landscape	 4668P119CA	Duplex/Booklet= Long Edge Binding, Orientation= Landscape	 4668P120CA
Duplex/Booklet= Booklet Left Binding, Orientation= Portrait	 4692P085AA	Duplex/Booklet= Booklet Right Binding, Orientation= Portrait	 4692P086AA


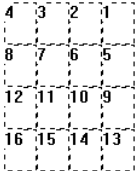

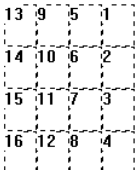

3. Preview Listing

Value Defined for Print Setting Item	Screen Specifications	Value Defined for Print Setting Item	Screen Specifications
Duplex/Booklet= Booklet Left Binding, Orientation= Landscape	 4692P087AA	Duplex/Booklet= Booklet Right Binding, Orientation= Landscape	 4692P088AA
N-up=2up, Orientation= Portrait	 4668P121CA	N-up=2up, Orientation= Landscape	 4668P122CA
N-up=4up, Orientation= Portrait, PageLocation= Vert. Ascending	 4668P123CA	N-up=4up, Orientation= Portrait, PageLocation= Vert. Descending	 4668P124CA
N-up=4up, Orientation= Portrait, PageLocation= Horiz. Ascending	 4668P125CA	N-up=4up, Orientation= Portrait, PageLocation= Horiz. Descending	 4668P126CA

3. Preview Listing




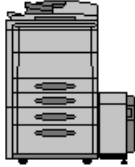
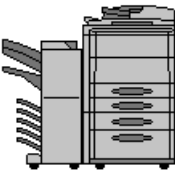
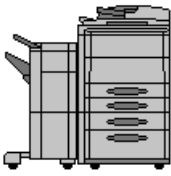
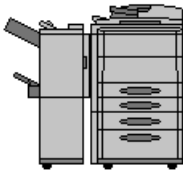
Value Defined for Print Setting Item	Screen Specifications	Value Defined for Print Setting Item	Screen Specifications
N-up=6up, Orientation= Portrait, PageLocation= Horiz. Ascending	 <p style="text-align: center;">4668P129CA</p>	N-up=6up, Orientation= Portrait, PageLocation= Horiz. Descending	 <p style="text-align: center;">4668P130CA</p>
N-up=6up, Orientation= Portrait, PageLocation= Vert. Ascending	 <p style="text-align: center;">4668P127CA</p>	N-up=6up, Orientation= Portrait, PageLocation= Vert. Descending	 <p style="text-align: center;">4668P128CA</p>
N-up=9up, Orientation= Portrait, PageLocation= Vert. Ascending	 <p style="text-align: center;">4668P131CA</p>	N-up=9up, Orientation= Portrait, PageLocation= Vert. Descending	 <p style="text-align: center;">4668P132CA</p>
N-up=9up, Orientation= Portrait, PageLocation= Horiz. Ascending	 <p style="text-align: center;">4668P133CA</p>	N-up=9up, Orientation= Portrait, PageLocation= Horiz. Descending	 <p style="text-align: center;">4668P134CA</p>

3. Preview Listing











Value Defined for Print Setting Item	Screen Specifications	Value Defined for Print Setting Item	Screen Specifications
N-up=16up, Orientation= Portrait, PageLocation= Horiz. Ascending	 <p style="text-align: center;">4668P137CA</p>	N-up=16up, Orientation= Portrait, PageLocation= Horiz. Descending	 <p style="text-align: center;">4668P138CA</p>
N-up=16up, Orientation= Portrait, PageLocation= Vert. Ascending	 <p style="text-align: center;">4668P135CA</p>	N-up=16up, Orientation= Portrait, PageLocation= Vert. Descending	 <p style="text-align: center;">4668P136CA</p>
Watermark	 <p style="text-align: center;">4668P139CA</p>		

3. Preview Listing




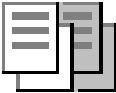





[Printer Figure]

Value Defined for Print Setting Item	Screen Specifications	Value Defined for Print Setting Item	Screen Specifications
No Installed Options	 <p>4692P078AA</p>	Dup + 2way Tray	 <p>4692P079AA</p>
Dup + LCC or Duplex Cabinet	 <p>4692P080AA</p>	LCT (Dup + LCC)	 <p>4692P081AA</p>
Mailbin Finisher (Dup + LCC)	 <p>4692P082AA</p>	Single-Staple Finisher or Multi-Staple Finisher (Dup + LCC)	 <p>4692P083AA</p>
Folding Finisher (Dup + LCC)	 <p>4692P084AA</p>		



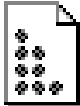

[Setting Preview]

	Value Defined for Print Setting Item	Screen Specifications	Value Defined for Print Setting Item	Screen Specifications
Duplex/ Booklet	Short Edge Binding	 4668P140CA	Long Edge Binding	 4668P141CA
	Booklet Left Binding	 4668P142CA	Booklet Right Binding	 4668P143CA
Detail of Output Setting (Staple)	Corner Staple	 4668P144CA	Center	 4692P089AA
	Long Edge	 4668P145CA	Short Edge	 4668P146CA
Detail of Output Setting (Punch)	Long Edge	 4668P147CA	Short Edge	 4668P148CA

3. Preview Listing

	Value Defined for Print Setting Item	Screen Specifications	Value Defined for Print Setting Item	Screen Specifications
Detail of Output Setting (Folding)	Justify Output Size [Z-fold]	 4692P090AA	Half folding	 4692P091AA
	Crease	 4692P092AA		
Collate	Uncollated	 4668P149CA	Collated	 4668P150CA
Sorting	Unsorted	 4668P151CA	Sorted	 4668P152CA
Orientation	Portrait	 4668P155CA	Landscape	 4668P156CA

3. Preview Listing

	Value Defined for Print Setting Item	Screen Specifications	Value Defined for Print Setting Item	Screen Specifications
All Raster	Off	 4668P153CA	On	 4668P154CA
Smoothing	Off	 4692P093AA	On	 4692P094AA

4. Specifications

Specifications for machine body

Specifications for machine body

The basic specifications for this controller are given below.

Type	: Built-in controller
Printer Language	: PCL5e, PCL6, PostScript level 3 Emulation (option)
Print Speed	Digital Copier 55cpm : 55ppm Digital Copier 45cpm : 45ppm
CPU	: PowerPC 740 (200 MHz)
ROM (program)	: 8MB (Smart Media)
RAM	: 32MB (on Board) : Max. 160MB (DIMM)
Transfer Image Density	: 600 × 600dpi
Interface (on host)	: Centronics Interface
Networks	: 10/100BaseT (UTP)
Network Protocol	: TCP/IP, IPX/SPX
Network Management	: To be managed from SNMP-compatible Web browser
Power Requirements	: 5V±5%, 3.25A max, 3.3V±3%, 2A max
Power Consumption	: 20W max.
Exterior Dimensions	: Width: 8-5/8" (220mm) × Depth: 12-5/8" (320mm) × Height: 2-3/8" (60mm)
Weight	: 4 lbs. (1.8 kg)
Operating Environment	
Temperature	: 50°F (10°C) to 95°F (35°C)
Humidity	: 15 to 85% RH (no condensation)
Fonts	: PCL5e/PCL6, 80 Adobe PostScript Level 3 Emulation Type 1 font, 136 Symbol Set, 8

Font

PCL font, 80

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

4. Specifications

ITC Zapf Chancery Medium Italic	ITC Zapf Dingbats
PostScript font, 136	
Albertus MT	Eurostile Bold
Albertus MT Light	Eurostile Extended Two
Albertus MT Italic	Eurostile Bold Extended Two
Antique Olive Italic	Geneva
Antique Olive Bold	Gill Sans
Antique Olive Compact	Gill Sans Italic
Antique Olive Roman	Gill Sans Bold
Arial MT	Gill Sans Bold Italic
Arial Italic MT	Gill Sans Condensed
Arial Bold MT	Gill Sans Bold Condensed
Arial Bold Italic MT	Gill Sans Extra Bold
Avant Garde Book	Gill Sans Light
Avant Garde Book Oblique	Gill Sans Light Italic
Avant Garde Demi	Goudy
Avant Garde Demi Oblique	Goudy Italic
Bodoni	Goudy Bold
Bodoni Italic	Goudy Bold Italic
Bodoni Bold	Goudy Extra Bold
Bodoni Bold Italic	Helvetica
Bodoni Poster	Helvetica Bold
Bodoni Poster Compressed	Helvetica Bold Oblique
Bookman Demi	Helvetica Oblique
Bookman Demi Italic	Helvetica Condensed
Bookman Light	Helvetica Condensed Oblique
Bookman Light Italic	Helvetica Condensed Bold
Apple Chancery	Helvetica Condensed Bold Oblique
Chicago	Helvetica Narrow
Clarendon	Helvetica Narrow Bold
Clarendon Light	Helvetica Narrow Bold Oblique
Clarendon Bold	Helvetica Narrow Oblique
Cooper Black	Hoefler Text Regular
Cooper Black Italic	Hoefler Text Italic
Coronet Regular	Hoefler Text Black
Courier	Hoefler Text Black Italic
Courier Bold	Joanna MT
Courier Bold Oblique	Joanna MT Italic
Courier Oblique	Joanna MT Bold
Eurostile	Joanna MT Bold Italic

4. Specifications

Letter Gothic	Times Roman
Letter Gothic Slanted	Times Italic
Letter Gothic Bold	Times Bold
Letter Gothic Bold Slanted	Times Bold Italic
Lubalin Graph Book	Times New Roman MT
Lubalin Graph Book Oblique	Times New Roman Italic MT
Lubalin Graph Demi	Times New Roman Bold MT
Lubalin Graph Demi Oblique	Times New Roman Bold Italic MT
Marigold	Univers
Monaco	Univers Oblique
Mona Lisa Recut	Univers Bold
New York	Univers Bold Oblique
New Century Schlbook Bold	Univers Condensed
New Century Schlbook Bold Italic	Univers Condensed Oblique
New Century Schlbook Italic	Univers Condensed Bold
New Century Schlbook Roman	Univers Condensed Bold Oblique
Optima	Univers Light
Optima Italic	Univers Light Oblique
Optima Bold	Univers Extended
Optima Bold Italic	Univers Extended Oblique
Oxford	Univers Bold Extended
Palatino Roman	Univers Bold Extended Oblique
Palatino Italic	Zapf Chancery Medium Italic
Palatino Bold	Zapf Dingbats
Palatino Bold Italic	Wingdings
Stempel Garamond Roman	Candid (emulates Carta)
Stempel Garamond Italic	Taffy (emulates Takton)
Stempel Garamond Bold	Copperplate Gothic ThirtyTwo BC
Stempel Garamond Bold Italic	Copperplate Gothic ThirtyThree BC
Symbol	Hoefler Text Ornaments

4. Specifications

Symbol Sets

No.	Symbol Set Name
1	Roman 8
2	PC-8
3	PC-8 D/N
4	IBM 850
5	ECMA Latin 1
6	Legal
7	Latin 2
8	Latin 5

Selectable Paper Sizes

Letter / 11 × 17 / 11 × 14 / Legal / Invoice

Executive / A6 / A5 / A4 / A3 / B6 / B5 / B4

FLS1 / FLS2 / FLS3 / FLS4

4. Specifications

Accessories

- Printer Driver Operator's Manual for Windows
- Printer Driver Operator's Manual for Macintosh
- Printer Driver Operator's Manual for Linux
- Scanner Mode Operator's Manual
- Printer Driver (CD-ROM) for Controller
- End User's License Agreement

Appendix B

1. Glossary

Glossary

10BASE-T

A network data transfer standard established by the IEEE. The network uses a twisted-pair cable carrying 10 megabits per second (10Mbps).

100BASE-T

A network data transfer standard established by the IEEE. The network uses a twisted-pair cable carrying 100 megabits per second (Mbps).

application

A software program that performs a particular function, such as generating graphics or spreadsheets.

click

To press and release a mouse button quickly. Often used to select an object. SEE double-click.

control panel

A bank of indicators that show the current status of the printer.

Panel buttons that are located on the control panel make it possible to perform a variety of different operations.

dialog box

A box that appears in order for the user to input information or settings required for the printer to operate.

double-click

Pressing a mouse button twice in quick succession while keeping the mouse in place. Often used to open a dialog or enable a function. SEE click.

display

A visual output device of a computer.

dpi

The fineness of detail of the output print, expressed in the number of dots per inch (dpi, or dots per inch). Higher resolution produces text and graphics with greater sharpness and fineness of detail, but results in a greater amount of data involved.

EtherTalk

The AppleTalk protocol supporting Ethernet. It allows Macintosh users to use the Ethernet.

font

A complete set of characters in a given typeface and style. The size of characters is specified in points (1/72 inches).

Typeface is the distinctive design of types, such as gothic, while style is an ornament, such as italic.

halftone

Gradations of tones expressed by means of varying densities of dots.

hard disk drive

A device that is contained in a computer and peripheral equipment and used to save data and files.

In the printer controller, it is used to save fonts downloaded from the computer. Its data is retained even when the main power is turned OFF.

icon

A graphic image on the screen that represents an element.

interface

A standard that governs the ways for two different systems to exchange information. It specifies the format of data to be transmitted, communications protocols, and physical configurations for connection.

IPX/SPX

The communications protocols used by NetWare.

landscape (paper orientation)

A horizontal print orientation, in which printing is oriented so that the long edges of a sheet of paper are on top and bottom.

local printer

The printer that is directly connected to the computer being used. A printer connected to a network is called the remote printer.

memory

The place in a computer where data can be stored and retrieved. The amount of data stored is expressed in bytes. Memory can either be RAM or ROM.

Generally, the data stored in RAM is lost when power is turned OFF, while that in ROM is retained even when power is turned OFF, but cannot be rewritten.

Network Interface Card (NIC)

An optional card to which network interface can be added, used for connecting a printer to network environment.

offline

The state of the printer controller, in which it does not receive data or execute any processing.

1. Glossary

online

The state of the printer controller, in which it is capable of receiving data and processing jobs.

operation system

A program or group of programs that control the functions of the computer and its peripheral devices such as the printer.

parallel interface

A type of standards that govern the ways for two different systems to exchange information, in which multiple bits are transmitted at one time. Because of that, synchronization is necessary, which makes the scheme not right for data transmission over a long distance. The most common parallel interface is Centronics.

port

A connector through which data is exchanged between a computer and peripheral equipment.

The parallel port permits multiple-bit data to be transmitted at one time, commonly used in printers. The serial port is generally used to connect a modem or other device.

portrait (paper orientation)

A vertical print orientation, in which printing is oriented so that the short edges of a sheet of paper are on top and bottom.

PostScript font

A scalable outline font standard, widely adopted in the printing industry. By downloading PostScript fonts in a PostScript-compatible printer, it is possible to produce smoother letters than bit-mapped fonts can.

PostScript printer software

The program that is used on the computer to enable printing on PostScript printers.

printer driver

Software that enables controlling printer operations.

print job

A single batch of job for printing specified at one time from an application. It may be directly transmitted to the printer, or temporarily stored in a print queue.

resolution

See dpi.

SIMM

An acronym for Single In-line Memory Module.

TCP/IP

The standard data transfer protocol over the Internet. Data is transferred by breaking up data messages into packets, to which IP addresses are attached.

TrueType font

A soft font standard the system has. TrueType is a font technology that ensures that the printed output is identical to what you see on-screen. It is also scalable, capable of producing characters in varying sizes.

gray scale

The method of representing color data on a monochrome device by approximating the data with shades of gray (halftone).

paper

The medium on which the printer can print data. Varieties include OHP transparencies, labels, letterhead, and postcards, in addition to plain paper and recycled paper.

1. Glossary

Appendix C

1. INDEX

INDEX

Numerics

“--> 32-Bit SuperDriver Setup” Property Sheet p.2-17

A

About... p.3-5
 Accessories p.A-22
 Account Code p.3-31
 Adding a Cover to Each Copy Set p.4-25
 Administrative Functions p.1-6
 Advanced p.3-34
 “Advanced” Property Sheet p.2-33
 All Raster p.3-28
 Angle p.3-15
 Apply p.3-6

B

Bin list p.3-6
 Booklet p.3-10
 Brightness p.3-27, p.3-29

C

Collate p.3-23
 “Color Management” Property Sheet p.2-15, p.2-34
 Compress bitmap images p.3-34
 Configuration p.1-7
 Confirming that the data has been transferred to the machine p.4-44
 “Conflicts” Dialog Box p.3-38
 Connecting the Controller p.1-8
 Contrast p.3-27
 Convenient Functions p.4-2
 Copies p.3-22
 Cover Page p.3-16
 Custom Paper setting dialog box p.3-25

D

Data format p.3-37
 Delete p.3-13, p.3-24
 Description of Each Property Sheet p.3-2
 “Details” Property Sheet p.2-14
 Device Options p.3-4
 “Device Options Setting” Property Sheet p.3-4

Displaying a Property Sheet	p.2-11, p.2-28, p.2-46
Displaying a Property Sheet from an Application Menu	p.2-11, p.2-28, p.2-46
Displaying a Property Sheet from the Printer Folder	p.2-11, p.2-28, p.2-46
Distribution	p.3-32
Duplex	p.3-10
E	
Easy Set	p.3-7
Easy Set Name	p.3-8
Edit	p.3-13, p.3-24
Edit Custom Paper Setting Dialog Box (PS version)	p.3-26
Error List	p.5-10
F	
Features of the Controller	p.1-2
Folding	p.3-20
Font	p.A-17
Fonts	p.3-34
For this TrueType font	p.3-35
Function Combination Matrix	p.A-2
Functions of the “Advanced PostScript” Dialog box	p.3-37
Functions of the “Conflicts” Dialog Box	p.3-38
Functions of the “Custom Paper” or “Edit Custom Paper” Dialog Box	p.3-24
Functions of the “Detail Of Output Setting” Dialog Box	p.3-18
Functions of the “Detail of Paper Source” Dialog Box	p.3-16
Functions of the “Device Options Setting” Property Sheet	p.3-4
Functions of the “Font Substitution Table” Dialog Box	p.3-35
Functions of the “Halftoning” Dialog Box	p.3-30
Functions of the “Job Management” Property Sheet	p.3-31
Functions of the “Paper” Property Sheet	p.3-21
Functions of the “PostScript” Property Sheet	p.3-33
Functions of the “Quality” Property Sheet	p.3-27
Functions of the “Save Easy Set Name” Dialog Box	p.3-8
Functions of the “Send Fonts As” Dialog Box	p.3-36
Functions of the “Setup” Property Sheet	p.3-9
Functions of the “Watermark” Dialog Box	p.3-13
Functions that are Common to Various Property Sheets	p.3-7

1. INDEX

G

“General” Property Sheet p.2-13, p.2-30,
p.2-48

H

Half-toning p.3-27, p.3-29,
p.3-30

I

Installation p.2-3, p.2-19,
p.2-38
Installing Various Printer Drivers p.1-10
Interleaving Paper p.3-17

J

“Job Management” Property Sheet p.3-31

L

Lock Job p.3-32

M

Machine preview p.3-8
MailBox p.3-6
“Mailbox Setting” Dialog Box p.3-6
Making General Settings Before Using the Printer p.2-10, p.2-27,
p.2-45

N

Name p.3-13, p.3-14,
p.3-25, p.3-26
New p.3-13, p.3-24
Number of registrations p.A-5
Number of registrations/Usable range for Custom Paper p.A-7
Number of registrations/Usable range for Easy Set p.A-5
Number of registrations/Usable range for Watermark p.A-6
N-up p.3-9

O

On Line p.1-9
Operating Environment p.2-2, p.2-18,
p.2-37
Orientation p.3-23
Original Document Size p.3-21
Output Paper Size p.3-22

Output Setting	p.3-12
P	
Page Layout	p.A-8
Paper Name	p.3-24
Paper preview	p.3-8
“Paper” Property Sheet	p.3-21
Paper Source	p.3-11
Poor Print Quality	p.5-9
“Ports” Property Sheet	p.2-32, p.2-49
Position	p.3-15
Postscript header	p.3-34
PostScript language level	p.3-37
PostScript output	p.3-33
“PostScript” Property Sheet	p.3-33
Preview	p.3-13
Preview Listing	p.A-8
Print PostScript error information	p.3-34
Printer Figure	p.A-12
Printer font for	p.3-35
Printing in Reduced/Enlarged Size	p.4-10
Printing More than One Copy at a Time	p.4-6
Printing on Both Sides of the Paper	p.4-3
Printing on OHP Transparencies	p.4-22
Printing Pages with a Distribution Number	p.4-18
Printing Pages with Watermarks	p.4-13
Priority Device	p.1-9
“Processing” Property Sheet	p.2-36, p.2-53
Punch	p.3-19
Q	
“Quality” Property Sheet	p.3-27
R	
Ready	p.1-9
Resolution	p.3-27, p.3-29
Reversal	p.3-29
S	
“Scheduling” Property Sheet	p.2-50
Screen angle	p.3-30
Screen frequency	p.3-30
“Security” Property Sheet	p.2-35, p.2-52

1. INDEX

Selectable Paper Sizes	p.A-21
Send Fonts As	p.3-34
“Setup” Property Sheet	p.3-9
Setting Preview	p.A-13
Shading	p.3-15
“Sharing” Property Sheet	p.2-16, p.2-31, p.2-51
Size	p.3-14, p.3-25, p.3-26
Smoothing	p.3-28, p.3-29
Sorting	p.3-23
Specifications	p.A-16
Specifications for machine body	p.A-16
Specifying Booklet Printing	p.4-16
Specifying N-up Printing	p.4-8
Staple	p.3-18
String	p.3-14
Style	p.3-14
T	
Test Print	p.2-9, p.2-26, p.2-44
TrueType fonts	p.3-36
Type Face	p.3-14
U	
Unable to Make Correct Settings / Unable to Print Exactly as Set	p.5-5
Unable to Print	p.5-2
Unit	p.3-25
User Name	p.3-5
Using the Copy Track Function	p.4-20
Using the Folding Function	p.4-34
Using the Lock Job (Print PC Confidential) Function	p.4-28
Using the Settings Function	p.4-38
V	
Various Printing Functions	p.1-2
W	
Watermark	p.3-10



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Printed in USA
Part Number DL46000260

The information contained in this manual is subject to change without notice to incorporate improvements made to the products listed in this manual.