Panasonic
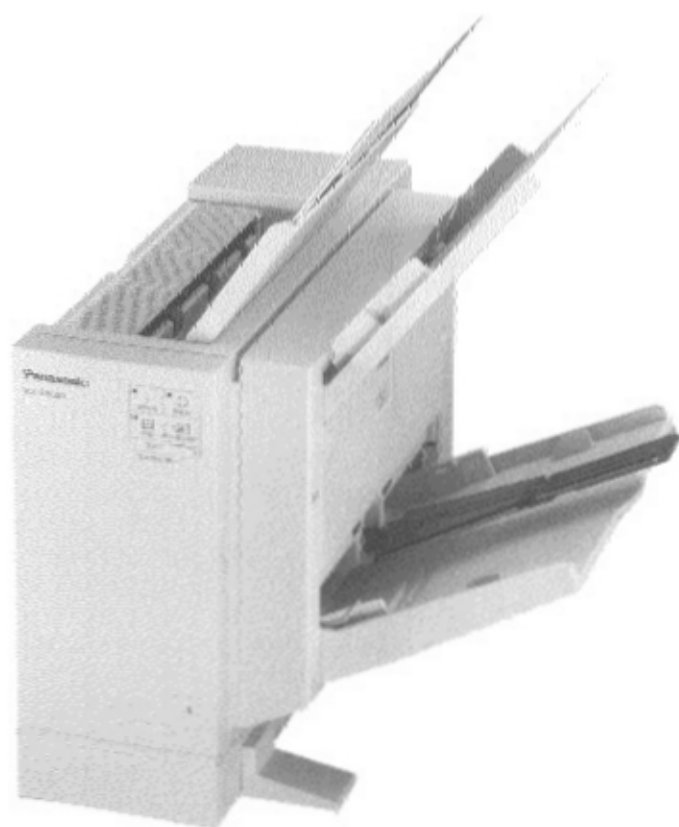
Operating Instructions

Laser Printer with Scanner

Model No. **KX-PS600**

Multifunction Laser Printer *with* Scanner

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Caution: This product utilizes a laser
Use of controls or adjustments or performing of procedures other than those specified herein, may result in hazardous radiation exposure
Do not open covers and do not attempt to repair the unit yourself Refer servicing to qualified personnel

When you operate this equipment, the mains socket-outlet should be near the equipment and be easily accessible

Make sure the unit is installed in a well ventilated room so as not to increase density of ozone in the air Since ozone is heavier than air, it is recommended that air at floor level be ventilated

Warning: The power source voltage of this unit is listed on the nameplate Plug the unit only into an outlet with the proper voltage To prevent fire or shock hazard, do not expose this product to rain or moisture

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Laser diode properties
Laser output   5 mW max
Wavelength   788 nm
Emission duration   Continuous

Panasonic Process Unit
KX-PEP4

CAUTION
Use of toner other than Genuine **Panasonic** Toner can damage this process unit and the printer's fuser
THIS WILL VOID THE WARRANTY OF THE PRINTER AND PROCESS UNIT

FOR YOUR SAFETY

To ensure safe operation the three-pin plug supplied must only be inserted into a standard three-pin power point which is effectively grounded (earthed) through the normal household wiring

Extension cords used with the equipment must be three-core and be correctly wired to provide connection to ground (earth) Improperly wired extension cords are a major cause of fatalities

The fact that the equipment operates satisfactorily does not imply that the power point is grounded (earthed) and that the installation is completely safe For your safety, if in any doubt about the effective grounding (earthing) of the power point, consult a qualified electrician

If the plug cannot be inserted into the mains socket-outlet, contact a licensed electrician to replace the outlet with properly grounded (earthed) one Do not defeat the purpose of the grounding (earthing) plug (ex do not use a conversion plug)

The serial number of the unit may be found on the label on the rear of the unit For your convenience, record this number below and retain this book along with your proof of purchase to serve as a permanent record of your purchase

MODEL NO   __KX-PS600__   NAME OF DEALER   _____

SERIAL NO   _____   DATE OF PURCHASE   _____

Caution Label

FOR USERS IN UNITED STATES

Technical Support Calls

If you have read this manual and tried the troubleshooting procedures and you are still having difficulty, please contact the store from which the unit was purchased.
You may also call the end user technical support telephone number which is operational during East Coast business hours (9:00 AM to 7:00 PM).
The end user technical support number is 1-800-222-0584.
This number is available within the U.S. only.

Helpful Phone Numbers

To locate your nearest sales dealer	CALL 1-800-742-8086
To order consumables	CALL 1-800-222-0584
To order operating instructions/manuals	CALL 1-206-395-7343
To locate your nearest authorized service center	CALL 1-800-222-0584
For technical support	CALL 1-800-222-0584
Automated 24-hour support	CALL 1-800-222-0584
Fax back	CALL 1-800-222-0584
Electronic bulletin board	CALL 1-201-863-7845
Internet	http://www.panasonic.com

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Any details given in these Operating Instructions are subject to change without notice.

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Chapter 1　Chapter 2　Chapter 3　Chapter 4　Chapter 5　Chapter 6　Appendix

Features

Congratulations on your purchase of the KX-PS600, the three-in-one solution to today's office needs. This amazing little desktop unit can be used as a printer, a scanner and a copier.

Printer Function

■ *GDI Mode* (☞ P. 36)

GDI Mode takes advantage of Windows' own internal design to print some documents faster than most conventional 600 dpi printers can. Other printers require Windows to translate a document into a special printer language, such as PCL on LaserJet printers. GDI Mode reduces overhead by eliminating this translation step before starting to print. This mode includes the following special features.

Printing in GDI mode may not necessarily be faster than PCL mode. This depends on the processor and type of PC used. For Windows 95 it can also depend whether Windows 95 was installed as an upgrade from Windows 3.1, or a fresh installation.

Manual Duplex Printing:	Prints your document on both sides of the paper (☞ P. 38).
Overlay:	Overlays an image over any document (☞ P. 39).
2 Up/4 Up:	Prints 2 or 4 pages on a single sheet of paper to save paper (☞ P. 42).
Image:	Adjusts the brightness and contrast of your output (☞ P. 42).
Scaling:	Reduces or enlarges your output on printed page from 10% to 200% (☞ P. 38).
Last Page on Top (Reverse Order):	Prints your document in reverse order (☞ P. 37).

■ *PCL Mode* (☞ P. 43)

Enables you to print a file created with the MS-DOS application or to print a PCL format file within Windows.

■ *Power Saving* (☞ P. 34)

Saves energy while the unit is idle.

■ *KX-PS600 Software*

- Provides three configuration options depending on how you intend to use the unit.

Personal: *(Single User)*	For users that either do not have a network connection or do not plan to share the unit with others on the network.
Server:	For users that plan to attach the unit to their PC and have/plans to have a network connection, and may provide unit sharing to other PCs on the network.
Client:	For users that will not attach the unit to their PC but do plan to use the printer attached to another PC on the network.

- Enables you to install printer driver for Windows 3.1 and Windows for Workgroups 3.11, or Windows 95
- Enables you to setup the unit
- Displays the device status
- Displays the recovery instructions when a problem occurs
- Manages all output to the unit
- Provides the help system

■ *Animated Help Feature* (☞ P. 45)

The KX-PS600 Device Status alerts the user of common operational errors. Click the ▶ button for animated help. This feature will walk you through the steps required to get your unit running again.

■ *Bidirectional Parallel Interface* (☞ P. 88)

Enables communication between the computer and the unit.

Scanner Function

■ *Destination Panel (Quick Operation Utility)* (☞ P. 47)

This program enables you to:

• Display the scanned documents on your PC screen

• Print the scanned documents

• Copy the scanned documents

• Convert the scanned text documents to the editable text documents if the supplied OCR program is installed on your PC

• Fax the scanned documents if the fax program is installed on your PC

■ *OCR (Optical Character Recognition)* (☞ P. 61)

This program converts a scanned text document to an editable text document and transfer it to your word processor. You can edit and save the document according to that program's procedures.

■ *KX-PS600 Document Desktop* (☞ P. 50)

This program enables you to:

• Create, rename and delete folders, combine and un-combine documents in folders, and perform editing tasks

• View the names of all documents in the selected folder along with information such as last saved date, file size, number of pages, etc.

• Enlarge a page up to 200% and reduce it to 25% on the screen

• Search, rename, create, view, move, duplicate, delete, arrange, rotate, and clean documents

• Create, navigate and ungroup multi-page documents

• Display, edit, and/or highlight a portion of the document

• Print, fax and send documents to other applications without leaving the program

■ *TWAIN Program* (☞ P. 65)

The KX-PS600 is compatible with TWAIN. Using a Twain-compliant application, you can access KX-PS600, scan an image and transfer it to your document.

Copier Function

■ *Local Copy* (☞ P. 47)

A copy can be made easily by clicking the Local Copy button on the Destination Panel. The scan settings can also be changed.

■ *Scan to PC and Printer* (☞ P. 47)

A copy can be made by clicking the Scan to PC and Printer button on the Destination Panel. The scan and print settings can be changed.
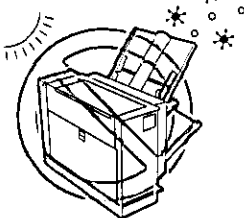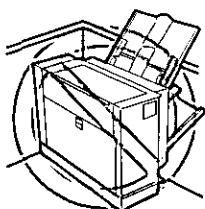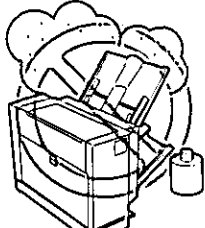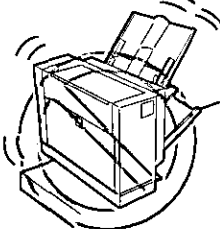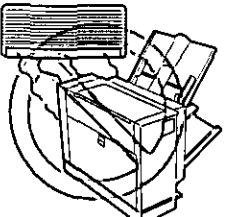
■ *Stand Alone Copier* (☞ P. 70)

Even when your unit is not connected to a PC, a copy can be made easily by pressing the COPY button on the unit. The number of copies and other settings cannot be changed.
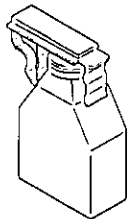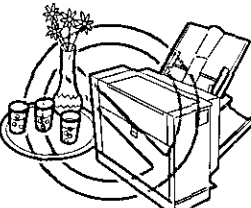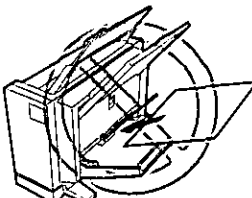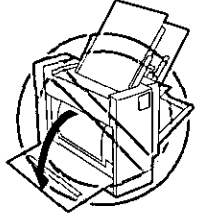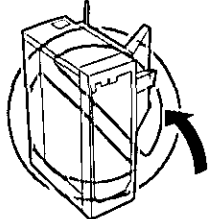
Before You Start

Cautions

To avoid machine malfunction, do not use the unit under the following conditions.

• Direct exposure to sunlight • Extremely high or low temperature [range: 10 to 32.5°C (50 to 90.5°F)] • Extremely high or low humidity (range: 20% to 80% RH)	• Areas of poor ventilation	• Areas of high dust or chemical fume concentration (solvent etc.)	• Unstable or unlevel surfaces	• Directly in front of air conditioning vents

The following precautions are recommended to extend the life of the unit.

• Use of toner other than Genuine Panasonic Toner KX-PST1 can damage this process unit and the KX-PS600 unit's fuser. THIS WILL VOID THE WARRANTY OF THE UNIT AND PROCESS UNIT.	• Do not keep liquids near the unit. Accidental spills of liquid into the unit can cause severe damage.	• Do not add paper to the tray while unit is printing as it may cause a paper jam. (When you want to add more paper, you must remove the remaining paper from the tray and then place the entire stack of paper into the tray.	• Do not open the left cover while the unit is operating.	• Do not place the unit either on its left or right side or on its front side facing upward.

Minimum Space Requirements

(Rear)

2 cm (0.8") Ventilation space

(Left) (Top) (Right)

20 cm (8.0") Left cover opening space

(Front)

40 cm (15.8") Paper tray opening space

2 cm (0.8") Ventilation space
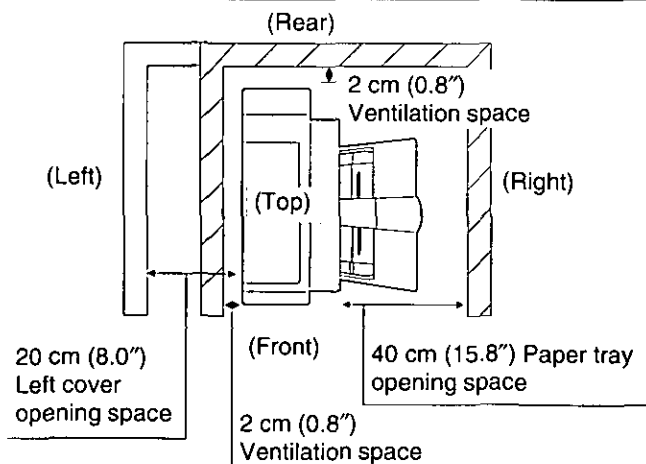
Power Source

• Use a voltage level marked on the nameplate (located on the rear of the unit). Be sure the voltage level does not vary more than ±10%.

• This unit should be connected to a grounded outlet.

• Do not use a line conditioner, transient suppressor or surge protector which has the current capability less than 20A; it may cause a machine error. When these devices are used, be sure the current capability is more than 20A.

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System Requirements

To run the KX-PS600 software, you need the hardware and software given in the following tables.
Hardware requirements differ between the three software configuration options: Personal, Server, and Client..

Hardware Requirements		Personal	Server(s)	Client(s)
Minimum CPU	Windows 3.1 or Windows for Workgroups 3.11	i80386DX (i80486DX)*	i80386DX (i80486DX)*	i80386DX (i80486DX)*
	Windows 95	i80386DX (i80486DX)*	i80386DX (i80486DX)*	i80386DX (i80486DX)*
Minimum Processing Speed		25 MHz (33 MHz)*	33 MHz	25 MHz (33 MHz)*
Free Hard Disk Space		20 MB	20 MB	20 MB
Minimum PC RAM		8 MB (16 MB)*	8 MB (16 MB)*	8 MB (16 MB)*
Centronics Parallel Port		✓	✓	✗
Network Card		✗	✓	✓
Network cable, connector(s), and terminator(s)		✗	✓	✓
Network adapter driver		✗	✓	✓

* Recommended   ✓ : required   ✗ : not required

Software Requirements	Personal	Server(s)	Client(s)
Windows	Windows 3.1, Windows for Workgroups 3.11 or Windows 95	Windows for Workgroups 3.11 or Windows 95	Windows for Workgroups 3.11 or Windows 95
Minimum Virtual Memory *1 (☞ P. 21)	12 MB (16 MB)*	12 MB (16 MB)*	12 MB (16 MB)*

* Recommended

*1 Virtual Memory should be permanent in Windows 3.1, Windows for Workgroups 3.11.

Unpacking

Make sure that all of the items shown below were provided and have not been damaged. Report damage or shortages to the store from which the unit was purchased. On page 3, there is an area for recording important information such as the serial number, date of purchase and your dealer name.

Process Unit (KX-PEP4) (☞ P. 14) (enclosed in the printer)	**Paper Tray** (☞ P. 15)	**Document Feeder Tray** (☞ P. 15)	**Document Output Tray** (☞ P. 15)
Power Cord (☞ P. 16)	**Image Management Utilities Disks** (☞ P. 22)	**TextBridge Disks** (☞ P. 23)	**Operating Instructions Manual**
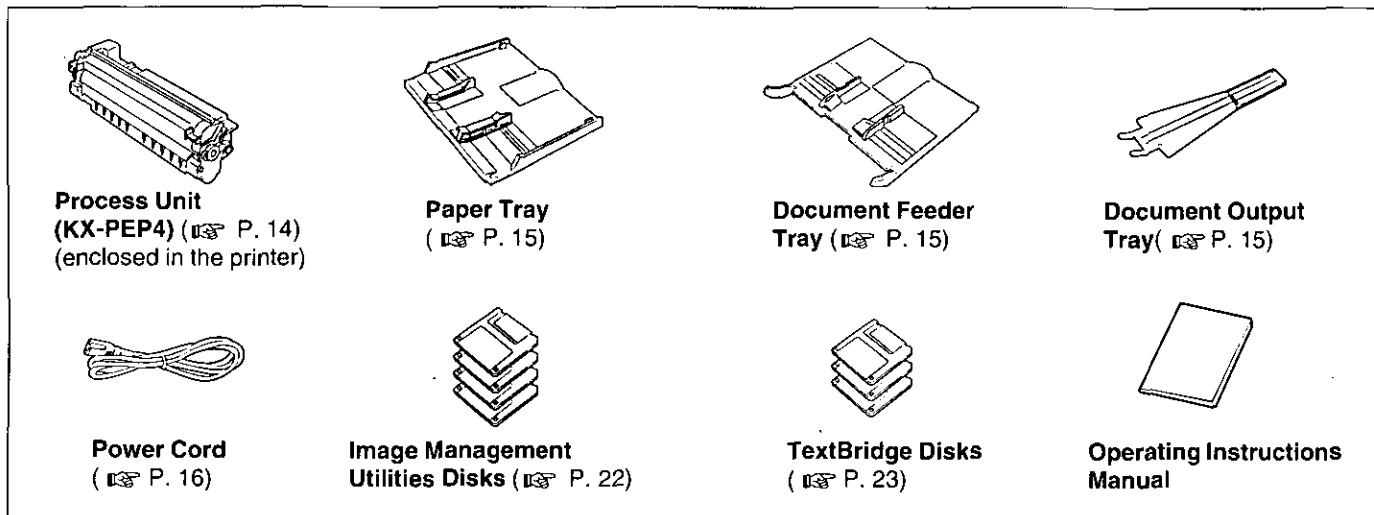
Note:
• It is recommended that you save the original carton and packing materials for future shipping and transporting of the unit. They have been specifically designed to protect your unit during shipment.

Part Names

Output tray (top cover) (☞ P. 17)

Paper output support (☞ P. 17)

Document feeder support (☞ P. 48)

Document feeder tray (☞ P. 15)

Indicators and Button (☞ P. 13, 77)

Scanner door (☞ P. 73)

Rear

Process unit (☞ P. 14, 81)

Document output tray (☞ P. 15)

Paper support (☞ P. 17)

Paper tray (☞ P. 15)

Front

Left cover (☞ P. 14, 72)

Power switch (☞ P. 16)

Power connector plug (☞ P. 16)

Frame ground terminal (☞ P. 16)

Parallel interface connector (☞ P. 16, 88)

Indicators and Button

ERROR indicator
(☞ P. 77)

TONER/PROCESS UNIT
indicator (☞ P. 77)

READY indicator
(☞ P. 77)

COPY button
(☞ P. 70, 77)

START/STOP

Indicators			Printer/Scanner/Copier status
ERROR	**READY**	**TONER/ PROCEES UNIT**	
□	▓̇	□	Warming up
□	■	□	Ready for printing, scanning and copying
□	▓̇	□	Receiving data, printing, scanning, or copying
▓̇	□	■	Process Unit is not installed
□	· □	▀̇	Add toner

■ : on ▓̇ : blinking (fast – with an interval of about 1 second)
□ : off ▀̇ : blinking (slow – with an interval of about 2.5 seconds)

• For more detailed information on error indications, refer to page 77.

COPY button:

COPY will execute one of the following functions depending on the status of the unit (☞ P. 70).
When copying through PC, settings can be changed (☞ P. 47).

Indicators			Function
ERROR	**READY**	**TONER/ PROCESS UNIT**	
□	■	□	Start making a **copy** in the Text mode (300 × 300 dpi) by pressing this button for **less than** 2 seconds when a document is inserted in the document feeder tray
			Start making a **copy** in the Text & Photo mode (300 × 300 dpi) by pressing this button for **more than** 2 seconds (READY indicator blinks) when a document is inserted in the document feeder tray
			Start making a **demo print** by pressing this button for **more than** 2 seconds when a document is not inserted in the document feeder tray
□	▓̇	□	Stop making a copy by pressing this button when copy is executing

■ : on □ : off ▓̇ : blinking (fast)

Chapter 1   Unpacking / Part Names

Chapter 2 *Setup*

Preparation

Process Unit Installation

Important:

To prevent any damage to the Process Unit, observe the following precautions.

- Do not touch the green drum surface. Lift the Process Unit by holding the green labeled tabs.
- Do not expose the Process Unit to direct sunlight or artificial light for more than 5 minutes.
- Do not keep the Process Unit near dust or dirt.
- Do not place the Process Unit in a high humidity area.

Installing the left unit stand

- To further stabilize the unit, remove (**❶**) and reinstall (**❷**) the left unit stand before installing the Process Unit.

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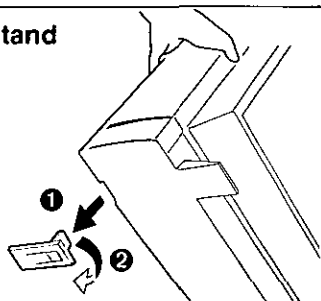
1 Open the left cover by gently pulling the cover release tab.

Cover release tab
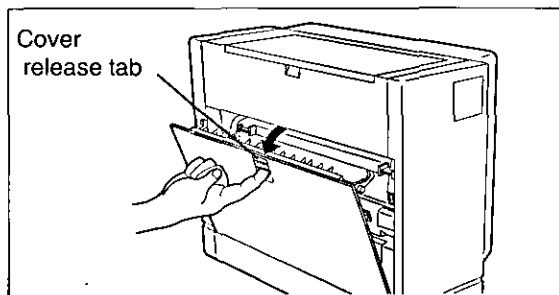
2 Remove the Process Unit by grasping the green labeled tabs and pulling it toward you.
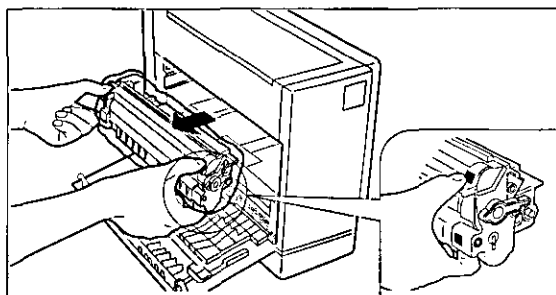
3 Open the plastic bag and remove the Process Unit.
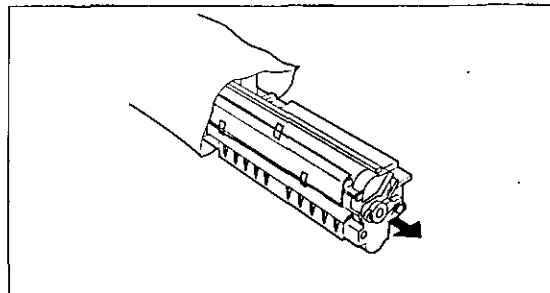
4 ❶ Remove the protective sheet.
   ❷ Remove the tapes.
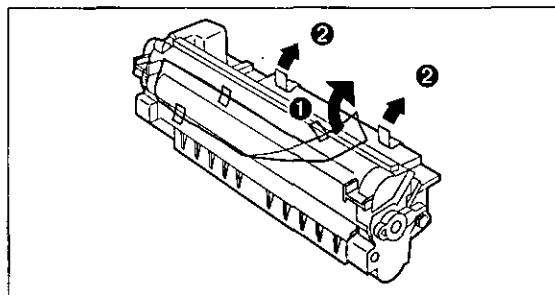
5 Install the Process Unit by grasping the green labeled tabs and pushing it firmly into the unit.
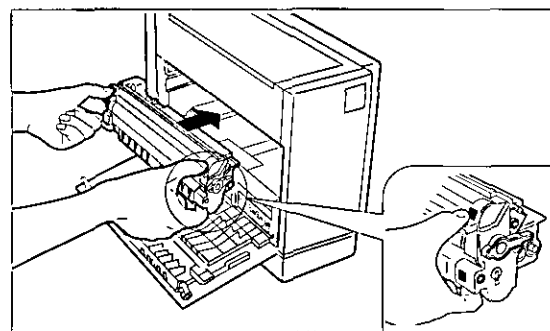
6 Close the left cover.

Notes:

- PLEASE DO NOT THROW AWAY THE PACKING MATERIALS. YOU MAY NEED THEM TO SHIP OR TRANSPORT THE UNIT.
- TO PROVIDE OPTIMUM PRINT QUALITY, THE UNIT MUST BE KEPT UPRIGHT AND LEVEL AT ALL TIMES.

Trays Installation

To install the following trays, perform steps 1~3 below

- Paper Tray
- Document Output Tray
- Document Feeder Tray

1 Align the lower left and right ends of the paper tray with the guides and push the paper tray firmly into the unit

Paper Tray
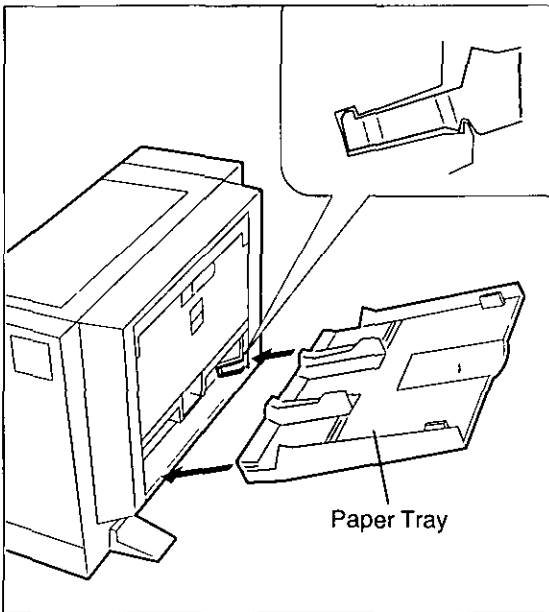
2 Align the left and right tabs of the document output tray with the guides. Push the document output tray firmly into the unit until it clicks

Document Output Tray
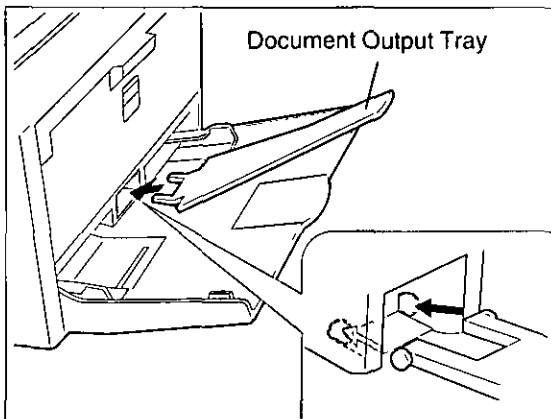
3 Insert the left and right tabs of the document feeder tray into the slots keeping the tray at about 45°. Firmly push the document feeder tray into the unit.

about 45°

Document Feeder Tray

Setup
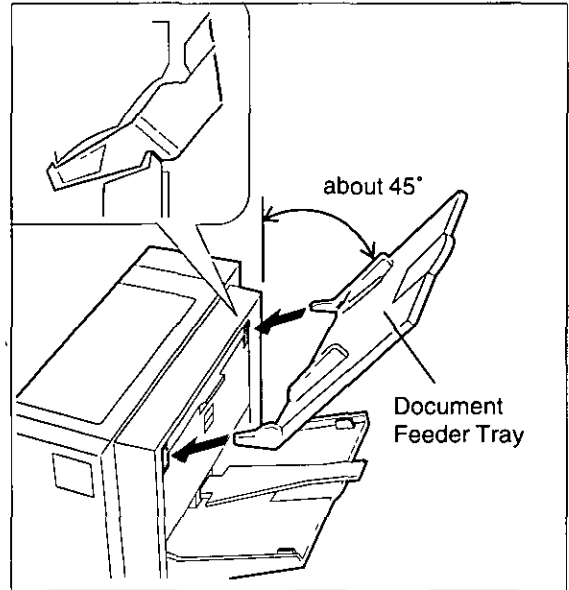
Connecting the Unit and Power On

This unit is equipped with a bidirectional parallel inter-face (☞ P. 88). If you do not have a bidirectional interface cable, you will need to purchase one from your local computer store or dealer.

1 **Turn OFF the unit and computer.**
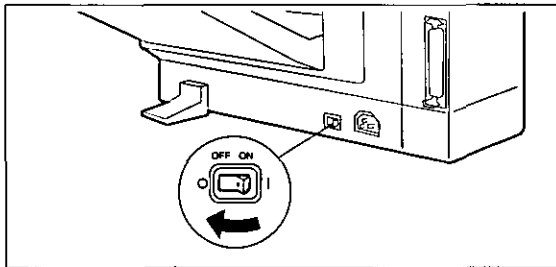
2 **Plug one end of the cable into the parallel interface connector of the unit.**
Snap the clips into place.

Clips
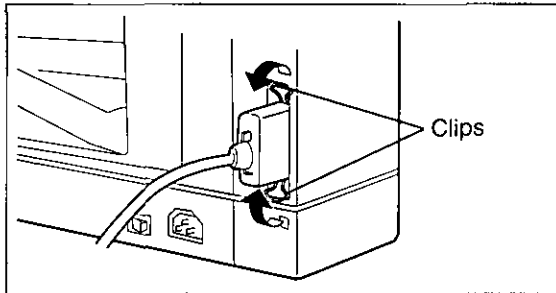
If the cable has a frame ground wire, connect it to the frame ground terminal.
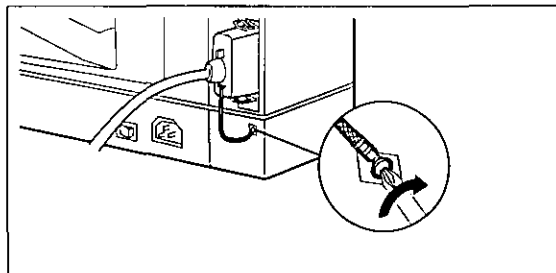
Notes:
- Be sure to use only a shielded bidirec-tional parallel interface cable. Other-wise the unit may not operate properly.
- The unit will not operate properly if any of the pins are not connected.

3 **Plug the other end of the cable into the connector on the computer.**

Notes:
- The actual connector on the PC may differ depending on the manufacturer of the computer.
- If the cable is connected to the PC via printer buffer or selector, the unit may not print.

4 **Plug one end of the power cord into the unit's power connector plug.**
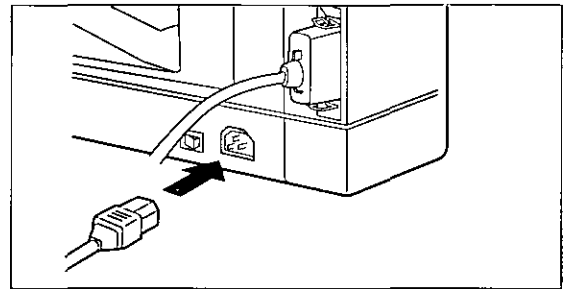
5 **Plug the other end of the power cord into a three-pin socket outlet which is properly grounded.**

6 **Turn ON the unit.**

7 **The unit is warming up.**
The READY indicator will start blinking.
It will take about 40 seconds to warm up when turning on the unit or releasing from Power Saving Mode (☞ P. 34).

8 **The unit is ready for printing.**
The READY indicator is on.

Loading Paper/Envelopes (Labels, Transparencies)

Loading Paper

This unit has a multi-purpose paper tray. The paper size selected through the GDI Mode (☞ P. 36) or PCL Mode (☞ P. 43) and your software application should also match the size of the paper in the paper tray for proper print alignment.

1 ❶ **Open the output tray (top cover).**
   ❷ **Extend the paper output support by sliding it upward.**
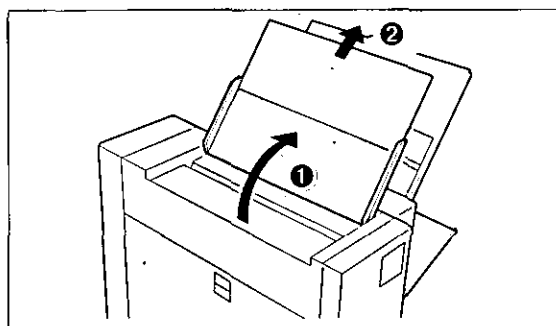
2 ❶ **Separate the paper guides to the approximate width of your paper.**
   Refer to the size indicators above the paper guides for accurate paper width.
   ❷ **If you load the legal size paper, extend the paper support by holding its top edge and sliding it upward.**
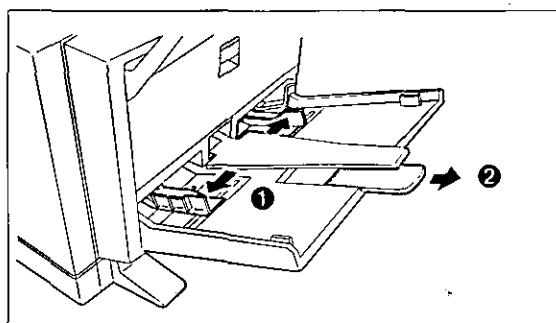
3 **Fan a stack of paper and tap it on a level surface to avoid paper jams or skewed printing.**
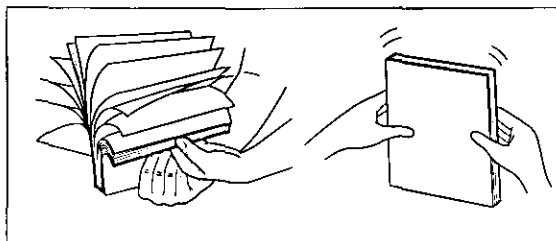
Note:
• You may load up to 100 sheets of 75 g/m² (20 lbs.) paper in the paper tray.
---

4 ❶ **Raise and hold the document output tray.**
   ❷ **Insert the paper into the paper tray fully.**
   The height of paper should not exceed the limit mark on the paper guide, or it may cause a paper jam.
   ❸ **Adjust the paper guides to your paper size.**

Limit mark
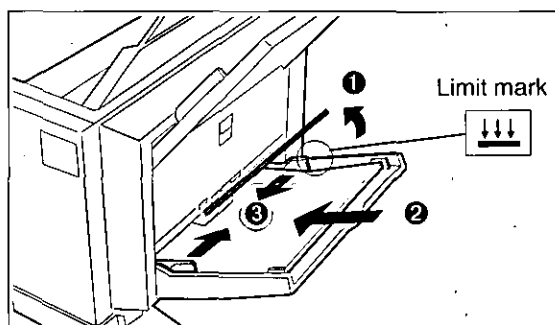
Notes:
• If the paper guides are not adjusted properly, your printout may be skewed.
• Do not load paper of different types or thickness in the paper tray at one time; this may cause a paper jam.
• When you want to add more paper to the paper tray, you must first remove the remaining paper from the tray and then place the entire stack of paper into the tray.
• Make sure you load the paper with the print side up. Most paper has instructions recommending the side to be printed first. When using 60 g/m² (16 lbs.) paper, always load the paper with the "non-curl side" up rather than following instructions on the paper package.
• For more detailed information on paper, refer to "Paper Specifications" (☞ P. 85).
• Do not allow more than 50 sheets [75 g/m² (20 lbs.)] to accumulate in the output tray. This may cause a paper jam.

Setup

Loading Envelopes (Labels, Transparencies)

You may load either 30 sheets of labels, 30 transparencies, or up to 10 envelopes in the paper tray. You can use Business Commercial #10, Monarch, International DL and International C5 envelopes. For more detailed information on Envelopes, refer to "Envelope Specifications" (☞ P. 87).

Notes:
* Make sure that all seams are properly sealed before loading envelopes.
* The envelopes must be loaded with the shorter side first to avoid a paper jam.
* When installing envelopes, the flaps should be face down.
* To print lengthwise on the envelope (along the longer side), set the printing mode to landscape (☞ P. 36, 43).

1 ❶ Open the output tray (top cover).
❷ Extend the paper output support by sliding it upward.
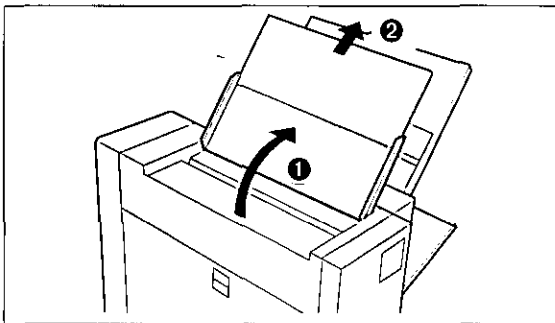
2 Adjust the paper guides to the approximate width of your envelope.
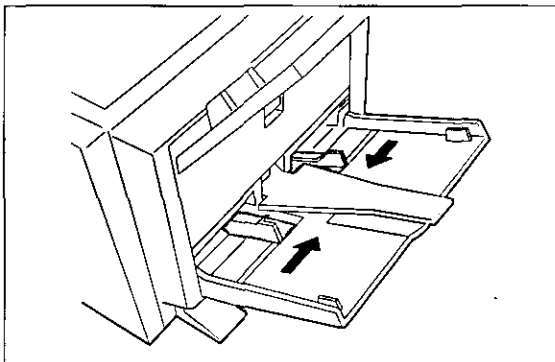
3 Insert the envelopes into the paper tray fully with the sides to be printed facing up. Position them between the paper guides, and adjust the guides until you feel resistance.

Front   Flap (face down and toward the front side of the unit)
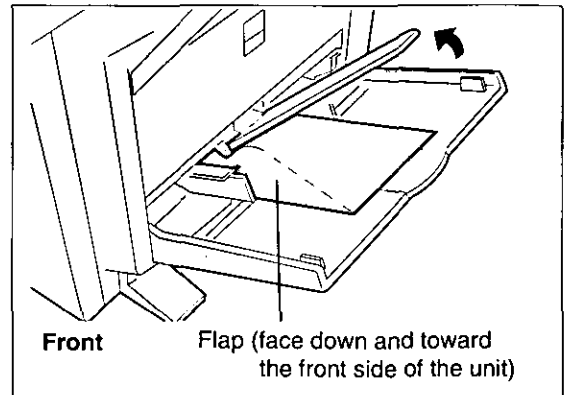
4 Verify that your envelope matches the paper size set through the GDI Mode (☞ P. 36) or PCL Mode (☞ P. 43) and software application for proper print alignment.

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KX-PS600 Configuration Overview

KX-PS600 provides three software configuration options depending on how you intend to use your unit

• Personal
• Server
• Client

Whether you use the unit in a network configuration or as a non-network printer, your configuration will provide all the same print modes and unit features Network and resource* sharing related features are not available in the "Personal" configuration

* A resource is a piece of data, software application, or hardware that can be accessed and used by multiple users or system components A resource provides a service

Personal Configuration Overview

The Personal configuration is for users that are not connected to a network, or will not use the unit as a shared network resource If at some point, you choose to add network capabilities to your PC or you choose to allow the unit to be a shared network resource, you will have to re-install the KX-PS600 software (☞ P 22) and select the Server User Type option (☞ P 22) However, note the hardware requirements for Server PCs (☞ P 11) to ensure that you have the minimum hardware necessary to install as a Server

Network Configuration Overview

Microsoft Windows for Workgroups 3 11 or Windows 95 is designed as a peer-to-peer network That is, each connected PC is a peer to every other connected PC in the workgroup This peer approach means that no PC in the workgroup acts as a network administrator The PC that has the printer connected to it performs some additional functions not needed by PCs without a connected printer Therefore, we have adopted the Client/Server terminology to differentiate between those PCs that have a printer connected to them and those PCs that do not have a connected printer A Server is that peer with a connected and shared printer A Client is a peer using a printer connected to a Server

Note:
• For peer to peer access, both peers must have KX-PS600 software (☞ P 22) installed and selected in their Windows printer list
• A maximum of 25 PCs on the network can use the KX-PS600

Server Configuration

The Server is the peer in the workgroup that has a printer connected to it At installation, the KX-PS600 Setup program asks if you wish to configure the PC as a Server or a Client You must configure the PC with the attached printer as a Server

Note
• If you previously installed and configured your PC as a Client, you must reinstall your unit as a Server (☞ P 22)
• The processing speed of the application running on the Server PC will slow down when the Client prints to the Server's printer

Any Server in the workgroup with KX-PS600 software (☞ P 22) installed can be effectively both a Server and a Client As a Server, that PC shares the connected printer with other peers in the workgroup However, when that server opts to print to a printer supported by another Server, that PC is acting as a Client to the other Server

Client Configuration

The Client is a peer in the workgroup that wants to print to another peer's printer

Note
• Scanner and copier function software cannot install the PC as a Client

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Setup

Network Configuration Example ——

As you can see in the following figure, there are two PCs that have attached printers:

- Peer A with Printer A
- Peer D with Printer D

If Peer B chooses to print to Printer A, Peer B is the Client and Peer A is the Server for that print job. If Peer A wants to print to Printer D, Peer A becomes a Client to Peer D, but Peer A remains the Server for Peer B's print job.

Printer A

Peer A
(Server)

Peer D
(Server)

Peer B
(Client)

Peer C
(Client)
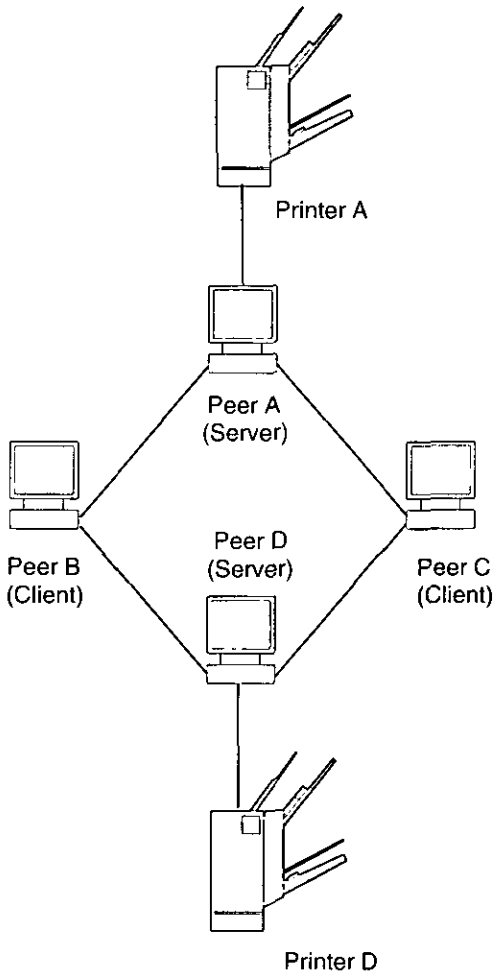
Printer D

Installing the Network Connection on Your PC

This section is for users that share the KX-PS600 on a network or for Clients that will use a shared printer. Skip this section if you plan to install the Personal configuration option. To use the KX-PS600 in a network, the Windows for Workgroups 3.11 or Windows 95 network has been constructed in advance.

To install a network connection on your PC, you need a network card adapter (either an internal bus card, an external PCMCIA card, or a parallel port version) and network software. Refer to your Microsoft documentation and network interface card or network adapter documentation for specific details regarding network connectivity and configuration. Using Microsoft Windows for Workgroups 3.11 or Windows 95 will provide you the network connectivity necessary to use the KX-PS600. Refer to the steps below to install a network connection on your PC.

Step	Action	Comment
1	Setup a peer-to-peer Windows for Workgroups 3.11 or Windows 95 environment.	Refer to your Windows for Workgroups 3.11 or Windows 95 and network adapter documentation.
2	Enable the peer-to-peer network by ensuring that peers can communicate via the Mail and Chat applications.	This step is recommended to ensure that your network is operational and all connected network peers can communicate.
3	Set Virtual Memory.	Minimum virtual memory of 12 MB is required (☞ P. 21). For Windows 3.1 or Windows for Workgroups 3.11, permanent memory rather than temporary memory is recommended.

Note for Network Protocol:
- To use the KX-PS600 in the network the following Network Protocol is needed: "NETBEUI" or "IPX/SPX compatible protocol with NetBIOS". Refer to the Microsoft Manual for more information.

Allocating Virtual Memory

For Windows 3.1 or Windows for Workgroups 3.11

The KX-PS600 software requires a minimum of 12 MB of virtual memory for Personal, Client and Server configurations

To change the virtual memory, follow the instructions below For more information on virtual memory, refer to the Optimizing Windows section in the Microsoft Windows 3 1 or Windows for Workgroups 3 11 User's Guide

1 Double click the *Main* icon from the Program Manager screen

2 Double click the *Control Panel* icon.

3 Double click the *386 Enhanced* icon.

4 Click [Virtual Memory].

5 If the size shown in the Virtual Memory dialog box is less than 12,000 KB, then click [Change]

Otherwise click [Cancel] to exit the dialog box

6 Select the Type "Permanent" in the New Swapfile Settings box.

7 Increase the New size in the New Swapfile Settings box to at least 12,000 KB.

Note·
- If you cannot increase the New size to the desired figure, then select the Type "Temporary" and set the virtual memory size
---

8 Click [OK].

9 Click [Yes].

10 Click [Restart Windows] to make the setting effective.

For Windows 95

It is recommended that you let Windows manage your virtual memory However, if your system has slowed down or you are experiencing memory errors you need to manually increase the virtual memory, follow the instructions below

1 Click [Start] , move the pointer to "Settings" and click "Control Panel".

2 Double click the *System* icon "System Properties" window will be displayed

3 Click the "Performance" tab.

4 Click [Virtual Memory..] .

5 Click the "Let me specify my own virtual memory settings" button.

6 Increase the Minimum setting to at least 12.

7 Click [OK] "Confirm Virtual Memory Settings" dialog will be displayed

8 Click [Yes] .

9 Click [Close] "System Setting Change" dialog will be displayed

10 Click [Yes] to restart Windows.

Installing the KX-PS600 Software

The KX-PS600 software installation analyzes your system configuration, installs the software, and makes the necessary changes to Windows startup files. Installation can be performed from the installation disks.

The KX-PS600 software installations will create and let you use the following.
- KX-PS600 Printer Console (☞ P. 30)
  - includes printer drivers for Windows 3.1 and Windows for Workgroups 3.11, or printer drivers for Windows 95
  - enables you to setup the unit in Windows
- KX-PS600 Destination Panel (☞ P. 47)
  - includes quick operation button for scanning
- KX-PS600 Document Desktop (☞ P. 50)
  - includes the image management software
- TWAIN Program (☞ P. 65)
  - includes a TWAIN driver

Notes:
- When the KX-PS600 software installation is attempted on your system with the KX-P6100, KX-P6500, KX-P6300 or S300 software already installed, the following message will be displayed.

> **Panasonic KX-PS600 Setup** ☒
> ⚠ Another version of software similar to KX-PS600 is found. Do you want to remove it?
> [OK]   [Cancel]
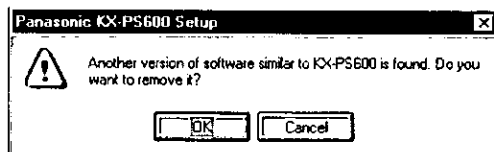
Click [OK] to remove the installed driver.
- When using the KX-P6100, KX-P6500 or KX-P6300 printer after using the KX-PS600, you need to reinstall the corresponding printer driver.
- If you wish to discontinue installing the software during installation, first complete the installation procedure, then use the Uninstall Utility to remove (☞ P. 27).
- If you are using the scanner which occupies centronic port, disconnect it and remove the driver of this scanner.
- The screen messages may be different depending on the version of Windows 95. In this case, install the printer driver by following its screen messages.

Installing the Image Management Utilities

■ *For Windows 3.1 or Windows for Workgroups 3.11 users:*

1 To start Windows in the 386 Enhanced Mode, type WIN at the DOS prompt and press [Enter] .

2 Insert the Image Management Utilities disk 1 of 4 (#1) into disk drive A.

3 From the Program Manager, click "File". Then click "Run...".   Go to step 4.

■ *For Windows 95 users:*

1 Start computer using Windows 95.

2 Insert the Image Management Utilities disk 1 of 4 (#1) into disk drive A.

3 Click [Start] and click "Run...".

4 Type A:\INSTALL and click [OK] .

5A If you are installing the software on a server/personal, click [Printer On] .

5B If you are installing the software on a client, click [No Printer] .

6 **The Setup Program has determined the following user configuration. If necessary, make appropriate changes to this window.**

```
Panasonic KX-PS600 Setup                    [×]

  The setup program has determined the following user
  configuration for your KX-PS600 installation. Make any
  necessary changes and press [Continue].
  Max. 15 characters are available for computer name.

  User Type:       [Personal    ▼]

  Computer Name:   [XXXXX                    ]

  Comments:        [                         ]

  KX-PS600 Directory:   [C:\KXPS600           ]


      [ Continue ]    [  Quit  ]    [  Help  ]
```

- **User Type**: Select Personal, Client or Server depending on your computer configuration. If your computer is not connected to any network, only Personal will be displayed.
- **Computer Name:** You must type in the name of the computer network or computer name, up to 15 characters, in the Computer Name field.
- **Comments:** Type in any comments in the comments field. For instance, software version No. or your name, etc.
- **KX-PS600 Directory:** If you wish to install the KX-PS600 for Workgroups software for Windows on another drive and/or directory, type the letter of the drive and/or directory name in the KX-PS600 Directory field.

7 Click [Continue].

8 **The Setup Program has determined the following printer configuration.**

```
Panasonic KX-PS600 Setup                    [×]

  The setup program has determined the following printer
  configuration for your KX-PS600 installation. Make any
  necessary changes and press [Continue].

  Printer Type:    [Panasonic KX-PS600        ▼]

  Parallel Port:   [LPT1:         ▼]

  Default Connection to:   [Local            ▼]

  Options:         [Main Tray       ▼]


      [ Continue ]    [  Quit  ]    [  Help  ]
```

- If necessary, make any changes to this window.

9 Click [Continue].
Follow the instructions on the screen to install the Image Management Utilities from disks 1 to 4.

```
TextBridge Installation              [×]

  Insert TextBridge Installation Disk #1

  ┌Select Drive──────┐      ┌──────┐
  │  ⦿ Drive A       │      │  OK  │
  │  ○ Drive B       │      ├──────┤
  │                  │      │ Skip │
  └──────────────────┘      └──────┘
```

> **Note:**
> - There is no TextBridge installation for the Client.

10A **If you wish to use "TextBridge" (OCR) (☞ P. 9), insert the TextBridge disk 1 of 3 into disk drive A. Then click [OK] .**

Follow the instructions on the screen to complete the installation.

10B **If you do not wish to use "TextBridge" (OCR), then just click [SKIP] .**

> **Note:**
> - It is possible to install the "TextBridge" later, even if you skip "TextBridge" installation. For installation, refer to "TextBridge Software" on page 67.

11 **Remove the inserted disk.**

12 Click [Restart Now] to restart Windows.

Setup

Installing the Software on a Server/ Personal (Plug & Play)

1 Turn the Printer on

Confirm the READY indicator is lit

2 Start computer using Windows 95.

"New Hardware Found" window will be displayed

- If the printer is not READY, "New Hardware Found" window will not be displayed After the printer is READY, turn the computer off then on again

3 Click OK

"Install From Disk" window will be displayed

4 Insert the Image Management Utilities disk 1 or 4 (#1) into disk drive A.

5 Click OK

First, the "Panasonic KX-PS600" window will be displayed, and then the "Panasonic KX-PS600 Setup" window will be displayed

6 Perform steps 6~12 of "Installing the Image Management Utilities" on page 23 to complete the installation.

> **Note:**
> - The Installation window lies behind other windows To bring the installation window to the front, close other windows

Installing the Software on a Client (Add Printer)

1 Start computer using Windows 95.

2 Insert the Image Management Utilities disk 1 of 4 (#1) into disk drive A.

3 Click Start , move the pointer to "Settings" and click "Printers".

4 Double click the *Add Printer* icon.

"Add Printer Wizard" window will be displayed

5 Click Next>.

6 Click "Local printer".

7 Click Next>.

8 Click Have Disk... .

"Install From Disk" window will be displayed

9 Click OK.

10 Click "Panasonic KX-PS600" in the Printers box

11 Click Next> twice

12 Click Finish.

First, the "Panasonic KX-PS600" window will be displayed, and then the "Panasonic KX-PS600 Setup" window will be displayed

13 Perform steps 6~12 of "Installing the Image Management Utilities" on page 23 to complete the installation.

> **Note:**
> - The Installation window lies behind other windows To bring the installation window to the front, close other windows

Setup

Printer Resource Sharing

If during installation you have selected Personal or Client, skip this section

The server printer must be shared and the client must be one of the authorized users of the server before a Client can print to the KX-PS600

To share a printer resource the Server must perform the following steps

■ *For Windows for Workgroups 3.11 users:*

1 From the Program Manager, double click the *Panasonic KX-PS600 Tools* icon.

2 Double click the *Printer Console* icon.
Go to step 3

■ *For Windows 95 users:*

1 Click [Start], move the pointer to "Programs", then to "Panasonic KX-PS600 Tools"

2 Click "Printer Console"

3 Click the "Control Panel" tab or "Network" menu

4 Click [🖨] or "Share Printer".

5 Click on the item(s) that you want to share. (i e GDI and PCL)

6 Click [Clients].

7A To Remove unauthorized client(s)
- Select clients from the "Share with" list box, then select the Remove button (Select Remove All will unauthorize all current connected clients)

7B To add authorized client(s)
- Select clients from the "Choose from" list box, then select the Add button (Select Add All will authorize all current and thereafter connected clients to share the printer)

8 Click [OK].

Printer sharing will be established automatically every time Windows starts up

Stop Sharing the Printer Resource

To stop sharing the KX-PS600 resource, perform the following steps

1 Perform steps 1 to 4 of "Printer Resource Sharing" above.

2 Click off the item(s) that you want to stop sharing

3 Click [OK]

Setup

Connecting a Client PC to a Shared Printer

Before a Client can print, the Client must connect to a shared printer resource. To connect to a shared printer resource, the Client must perform the following steps:

■ *For Windows for Workgroups 3.11 users:*

1 From the Program Manager, double click the *Panasonic KX-PS600 Tools* icon.

2 Double click the *Printer Console* icon. Go to step 3.

■ *For Windows 95 users:*

1 Click Start , move the pointer to "Programs", then to "Panasonic KX-PS600 Tools".

2 Click "Printer Console".

3 Click the "Control Panel" tab or "Network" menu.

4 Click or "Connect to ...".

5 Click on the "Remote Printer on" button.

6 Select a Server you want to connect to.

7 The selected server can be used for all your print modes by clicking on "Server of All Virtual Printer" box.

8 Click OK .

Testing the Unit

To verify that the software installation was successful, perform the following steps after confirming that the unit is ready and paper is loaded.

■ *For Windows 3.1 or Windows for Workgroups 3.11 users:*

1 From the Program Manager double click the *Panasonic KX-PS600 Tools* icon.

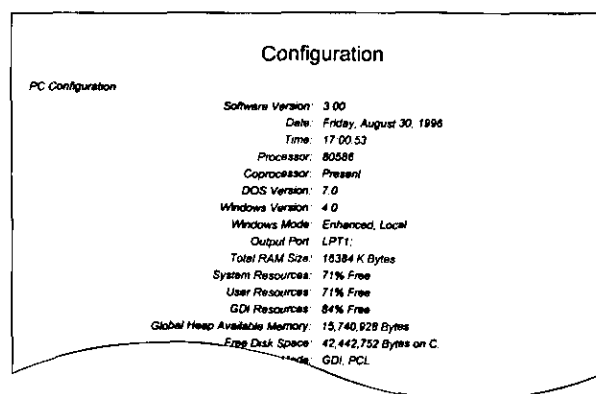**2** Double click the *Printer Console* icon. Go to step 3.

■ *For Windows 95 users:*

1 Click Start , move the pointer to "Programs", then to "Panasonic KX-PS600 Tools".

2 Click "Printer Console".

3 Click the "Control Panel" tab.

4 Click the (Print Configuration Page) button.

The Print Configuration Page screen will be displayed.

5 Click Yes .

Configuration

PC Configuration

Software Version: 3.00
Date: Friday, August 30, 1996
Time: 17:00:53
Processor: 80586
Coprocessor: Present
DOS Version: 7.0
Windows Version: 4.0
Windows Mode: Enhanced, Local
Output Port: LPT1:
Total RAM Size: 16384 K Bytes
System Resources: 71% Free
User Resources: 71% Free
GDI Resources: 84% Free
Global Heap Available Memory: 15,740,928 Bytes
Free Disk Space: 42,442,752 Bytes on C.
GDI, PCL

Note:
- It is recommended that you close all active Windows applications before printing a configuration page, and make sure that there are no print jobs paused in the KX-PS600 Printer Console (☞ P. 32). Otherwise, configuration printing may not be possible.

Removing the KX-PS600 Software

If you need to remove the KX-PS600 software, perform the following.

■ *For Windows 3.1 or Windows for Workgroups 3.11 users:*

1 From the Program Manager double click the *Panasonic KX-PS600 Tools* icon.

2 Double click the *Uninstall Utility* icon. Go to step 3.

■ *For Windows 95 users:*

1 Click ⌐Start⌐, move the pointer to "Programs", then to "Panasonic KX-PS600 Tools".

2 Click "Uninstall Utility".

3 Click ⌐OK⌐.

4 The one remaining file (delete.exe) and "Panasonic KX-PS600 Tools" directory must be manually removed by the user after uninstallation.

Note:
- Do not remove the files under the "Data" directory if you want to leave the scanned data in Document Desktop (☞ P. 50) when you reinstall the KX-PS600 software.

Print Modes

Print Mode Selections

You can select either of the two print modes, GDI Mode (☞ P. 36) or PCL Mode (☞ P. 43), according to your requirements. If you cannot determine which print mode is best suited for your printing applications under Windows, we recommend you always use GDI Mode first.

GDI Mode has the following features:
- faster printing than most conventional 600 dpi printers for some documents
- manual duplex printing (☞ P. 38)
- last page on top (reverse order printing) (☞ P. 37)
- overlay (☞ P. 39)

PCL Mode is effective in the following cases:
- when you want to print a file created with an MS-DOS application
- when you want to print a PCL format file
- when you want to print an ASCII formatted file

Printing Documents

Printing From a Windows Application

Once you have selected your print mode (GDI or PCL emulation *), just print from your Windows application as you would to any other printer.

* Emulation means to operate like another printer.

Printing From a DOS Application Within Windows

The KX-PS600 is a Windows printer, designed for use with Windows and does not work with MS-DOS. However, if the KX-PS600 is in PCL Mode (HP LaserJet Series IIP emulation), it can print a DOS application file as follows:

■ *For Windows 3.1 or Windows for Workgroups 3.11 users:*

Double click the MS-DOS icon in the Main window, start the DOS application and print a file.

- If you could not print, then you may need to check to see if your DOS icon is tagged "Exclusive". If it is so, then you must change it to non "Exclusive" (☞ P. 76).

■ *For Windows 95 users:*

Click ⌈**Start**⌋ , move the pointer to "**Programs**" and click "**MS-DOS Prompt**". Then start the DOS application and print a file.

Notes:
- It is recommended that you close all active Windows 3.1 applications before printing from DOS. However for some DOS applications which do not run successfully with Windows in the background, you will not be able to print.
- When printing from DOS using the "Shift+Print Screen" keys or DOS application, it may be slow to print. Please only print once, as it may take more than 1 minute before printing commences.

Changing the Print Mode

There are three methods of changing the print mode between GDI Mode and PCL Mode (see A, B, and C). However, some applications allows you to change the print mode only through method A.

A From an Application

Most of the popular Windows applications allow you to change GDI Mode/PCL Mode. For example, to change the mode in Microsoft Write, perform the following.

1 Select "Print Setup..." under the File Menu.

The Print Setup window will be displayed.

2 Select the desired print mode.

3 Click [OK].

B From the Printers in Windows

■ *For Windows 3.1 or*
Windows for Workgroups 3.11 users:

1 Double click the *Main* icon in the Program Manager to display the Main window.

2 Double click the *Control Panel* icon in the Main window.

3 Double click the *Printers* icon in the Control Panel window.

4 Select the desired print mode.

5 Click [Set As Default Printer].

The print mode you selected in step 4 appears in the Default Printer field.

6 Click [Close].

■ *For Windows 95 users:*

1 Click [Start], move the pointer to "Settings" and click "Printers".

2 Select the desired printer's icon.

3 Click "File" and "Set As Default".

4 Click "File" and "Close".

C From the Control Panel Tab of the KX-PS600 Printer Console

■ *For Windows 3.1 or*
Windows for Workgroups 3.11 users:

1 Double click the *Panasonic KX-PS600 Tools* icon in the Program Manager to display the Panasonic KX-PS600 Tools window.

2 Double click the *Printer Console* icon.
Go to step 3.

■ *For Windows 95 users:*

1 Click [Start], move the pointer to "Programs", then to "Panasonic KX-PS600 Tools".

2 Click "Printer Console".

3 Click the "Control Panel" tab.

4 Click the Printer list box.

5 Select the desired print mode.

6 Click [Set As Default].

7 Click "File" and "Exit".

Printer Function

KX-PS600 Printer Console

The KX-PS600 Printer Console provides a single access point to the four major program screens. The purpose of the KX-PS600 Printer Console is to provide an easy means to configure the KX-PS600 and to monitor and control print jobs.
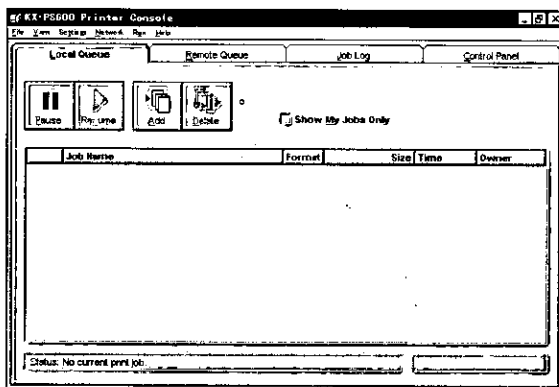
To display the KX-PS600 Printer Console window, perform the following.

■ **For Windows 3.1 or**
Windows for Workgroups 3.11 users:

1 From the Program Manager double click the *Panasonic KX-PS600 Tools* icon.

2 Double click the *Printer Console* icon.

■ **For Windows 95 users:**

1 Click Start, move the pointer to "Programs", then to "Panasonic KX-PS600 Tools".

2 Click "Printer Console".

Each of the four major program features can be viewed by clicking the tab under the window menu bar. The four tabs are:
• Local Queue
• Remote Queue
• Job Log
• Control Panel

For descriptions of the menu bar items, refer to "KX-PS600 Printer Console Menu Items" on page 34.

Help System

The Help menu informs you of the KX-PS600 Help system. Within the Help system, you can select Contents to see a list of topics related to the KX-PS600.

To display the Help menu, perform the following:

■ **From the KX-PS600 Printer Console window**

1 Click "Help" on the menu bar.

2 Click "Index".

3 Display your desired item using "Contents" or "Search".

4 Click "File" and then click "Exit".

You will exit the Help menu and return to the last window.

■ **From the Options or Overlay screen**

1 Click "Help".

2 Perform steps 2~4 of "From the KX-PS600 Printer Console window" above.

Control Panel

The Control Panel provides the mechanism to configure and control the unit Figure A shows the Control Panel tab of the KX-PS600 Printer Console The Control Panel is divided into five button categories, the printer information and printer selection display The Printer group item presents the currently selected printer and provides a list of additional printer selections The printer selections applicable to your unit are

* Panasonic KX-PS600 GDI
* Panasonic KX-PS600 PCL

To display the Control Panel features, click the "Control Panel" tab in the KX-PS600 Printer Console window

Figure A
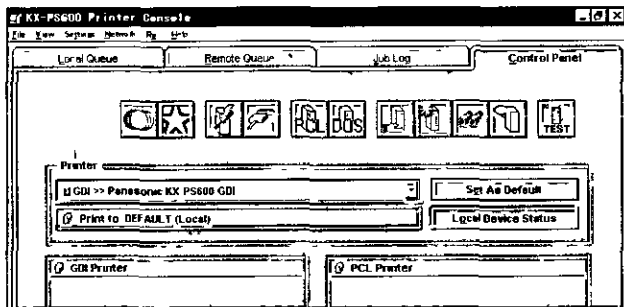
Use the list bar to highlight the print mode you want to use Then, to apply the selected printer, click
| Set As Default | You can also request the current printer status through the | **Local Device Status** |

The following table provides a brief description of the Control Panel buttons and refers you to the page number that provides detailed information about the available features

| Icon	Description	Page
Density	Provides five shades of density The default is 3	34
Power Saving	Identifies the wait time between last unit use and start of unit power saving	34
Printer Setup	Used to configure the unit	34
Connect Port	Identifies the port where your unit is connected, such as LPT1	34
PCL Control Panel	Displays the PCL Control Panel Menu	34
DOS Printing Options	Allows you to configure how DOS print job within Windows printing is to be processed	34
Share Printer	Allows you to share the printer with Clients	35
Connect to	Allows you to connect to a shared printer	35
Client Monitor	Allows you to view the Clients	35
Status Report Options	Allows you to select whether you want the Device Status window to display when an error occurs	45
Print Configuration Page	Allows you to print GDI 600 dpi configuration page	26

Printer Function

Local Queue

The Local Queue is used to review the status of your queued print jobs. For Servers, all pending print jobs are local to the Server. For Clients, the Local Queue represents print jobs that have been queued to a remote Server but are not yet transferred to that remote Server.

Note:
- Print job in the Local Queue will be displayed only when "Use Panasonic KX-PS600 Print Manager" is selected in the Panasonic KX-PS600 GDI window (☞ P. 36).

To display the Local Queue features, click the "Local Queue" tab in the KX-PS600 Printer Console window.
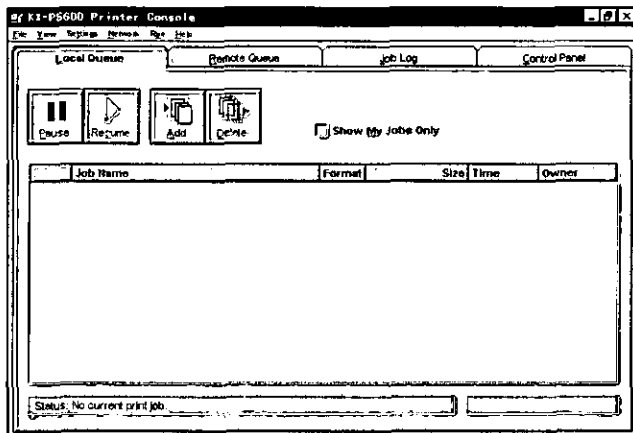
The Local Queue displays:

- the print job name
- the format of the print job (GDI, PCL)
- the size of the print job in bytes
- the time the job was sent to the queue
- the owner of the print job

The job owner category is primarily applicable to the Server.
The Local Queue displays the status of the job currently being printed. For Clients, this status will display only when the Client's print jobs are being printed.
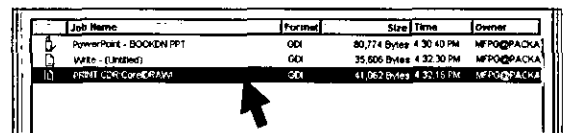
Changing the Order of Print Jobs —

Both Servers and Clients support drag-and-drop jobs within the Local Queue to change the job order in the print queue. Drag-and-drop is available for jobs that have not started printing. To change the order of print jobs, perform the following steps:
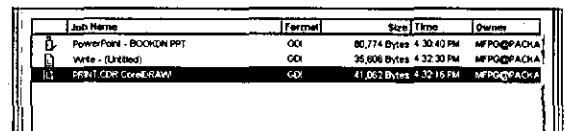
1 **Highlight the print job you want to change the order with the mouse.**

2 **While holding the left mouse button down, move the mouse arrow to the position you want to drop the selected print job.**

3 **Release the left mouse button. The order of print jobs will be changed.**

The following table provides a brief description of the Local Queue button icons.

Icon	Description
II Pause	Allows you to pause printing.
▶ Resume	Allows you to resume printing.
Add	Allows you to add a print job to the print queue. Click the Add icon and select a file (GDI or PCL 4.5 format) you want to print.
Delete	Allows you to delete the highlighted print job from the print queue.

Remote Queue

The Remote Queue is used to review the status of your queued print jobs at the remote printer This queue is primarily for Clients to review their print jobs Clients can select from among the shared printers through the "Show Print Queue for " list box

To display the Remote Queue features, click the "Remote Queue" tab in the KX-PS600 Printer Console window
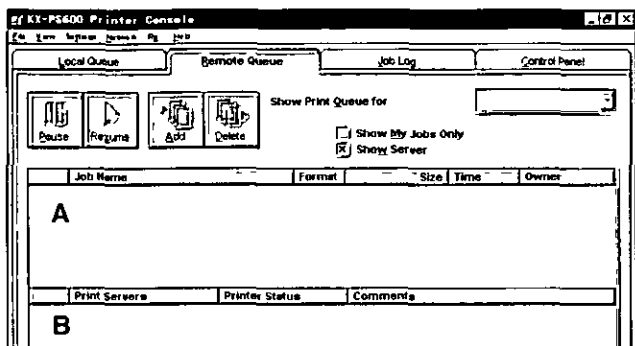
Show Print Queue for:
Allows the Clients to select from among the shared printers Clicking the list box will show you all available shared printers

Show My Jobs Only
Clicking on the "Show My Jobs Only" check box will only display your print jobs in box A

Show Server
Clicking on the "Show Server" check box will display the box B This box will show you all the servers with their status

> **Note:**
> • Print job in the Remote Queue will be displayed only when "Use Panasonic KX-PS600 Print Manager" is selected in the Panasonic KX-PS600 GDI window (☞ P 36)

The Remote Queue displays
• the print job name
• the format of the print job (GDI, PCL)
• the size of the print job in bytes
• the time the job was sent to the queue
• the owner of the print job

The job owner category is primarily applicable to the Server The drag-and-drop (reordering the print jobs) feature is not available in the Remote Queue

The following table provides a brief description of the Remote Queue button icons The Remote Queue displays the status of the job currently being printed

Icon	Description
Pause	Allows you to pause printing
Resume	Allows you to resume printing
Add	Allows you to add a print job to the print queue Click the Add icon and select a file (GDI or PCL 4 5 format) you want to print
Delete	Allows you to delete the highlighted print job from the print queue

Job Log

The Job Log provides a historical log of the last 10 jobs queued for print To display the log of the last 10 jobs, click the "Job Log" tab in the KX-PS600 Printer Console window
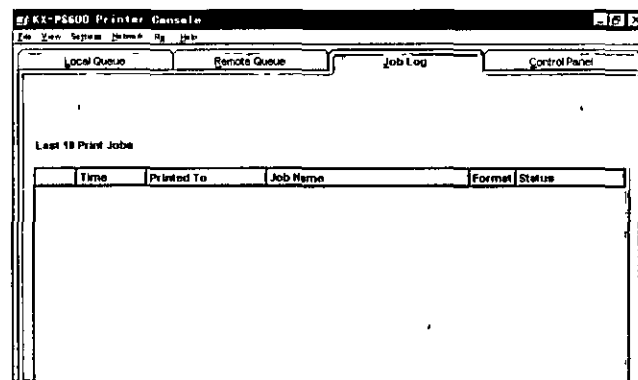
The Job Log displays

• the time the job was printed
• the Server name (Printed to)
• the job name
• the format of the print job (GDI, PCL)
• print result (Status)

The Job Log is more useful for Clients in workgroup environments, where there are multiple printers supporting differing printer characteristics

> **Note.**
> • Print job in the Job Log will be displayed only when "Use Panasonic KX-PS600 Print Manager" is selected in the Panasonic KX-PS600 GDI window (☞ P 36)

Printer Function

KX-PS600 Printer Console Menu Items

The KX-PS600 software provides the standard Windows menu items which are available in most Windows applications, as well as application-specific menu items. Some of the menu items match the buttons available on one of the tabbed displays. However, there are some printer functions that can be accessed only through the pull-down menu, such as the setting of print priority.

File

The File pull-down menu provides selection to exit your application. This menu also provides selections to pause or resume printing and add or delete a document to and from the queue.

View

The View pull-down menu allows you to display all servers with their status.

Settings

The Settings pull-down menu allows you to define the default settings for many of the following printer features.

Density

The Density setting allows you to define the darkness of the dots placed on the paper. There are five settings: Level 1, 2, 3, 4, and 5. To make print lighter, set a lower level. To make print darker, set a higher level.

Power Saving Mode

With Power Saving Mode turned on, you can save energy by instructing your unit to enter a low power consumption mode when it is idle for 15 minutes.

For USA: To conserve energy and reduce operating cost, the unit is equipped with a programmable power save feature. The unit is factory set with the power save feature turned on and programmed to 15 minutes to comply with EPA's Energy Star requirements.

Printer Setup

The Printer Setup displays the primary printer settings and configuration dialogue that also provides advanced setting and features.

Connect Port

The Connect Port lets you select a different parallel port for your unit. You can choose either LPT1, LPT2, or LPT3. Your PC hardware configuration may limit your individual options.

PCL Control Panel

The PCL Control Panel displays the PCL Control Panel window (☞ P. 43). This control panel provides configuration options for PCL printing from MS-DOS applications printed from the MS-DOS icon command line under Windows.

DOS Printing Options

The DOS Printing Options provides print emulation options for DOS printing.
You can select "Spool as PCL 4.5" or "Direct to Port" in the Printing Mode list box.

Spool as PCL 4.5: makes the PCL Control Panel settings effective.
Direct to Port: makes the DOS application's settings effective.

Some applications may not operate properly if the "Spool as PCL 4.5" has been selected. In that case, select "Direct to Port".

Print Priority

Windows lets you run several applications at the same time. This helps productivity but means you are sharing your PC resources among several activities.

The KX-PS600's priority settings let you control the priority of the printing activity relative to other applications running at the same time.

You can select High, Medium, or Low priority. Printing at high priority produces output faster but may slow down your system more than the other priority settings. On the other hand, printing at lower priority lets your other applications run faster but also means your document will take longer to print.

Network

The Network pull-down menu allows you to share and connect to a network printer, Clients Monitor (if configured as a Server) and change status settings, such as print job notifications

Share Printer

This selection is only available to Server configured users When selected it will set the printer as Shared

Connect to

This selection is available to Client and Server configured users When selected it will display a list of available printer Servers that can be selected

Client Monitor

This selection is available to the Server and provides the capability to monitor the print activities of Clients using the printer

Notify

This selection is available to all users and defines the various status selections and their display options Selecting "Remote Status Report" allows you to see the server's Printer Status window on the client

Change Name

This selection is available to all users and allows the user to change the computer name You must exit and restart Windows before this change takes effect The new computer name must not exceed 15 characters

Run

The Run pull-down menu allows you to examine the status of the printer and print a test page

- The "Close Interpreter" selection can clear the PCL Printer icon after a DOS application has been printed using the KX-PS600

Chapter 3   **KX-PS600 Printer Console (Menu Items)**

Printer Function

KX-PS600 GDI Mode

You can select the GDI Mode from an application, through the Control Panel's Printer window, or through the Control Panel tab of the KX-PS600 Printer Console window (☞ P 30) The Panasonic KX-PS600 GDI window lets you select certain settings for your print job

To display the Panasonic KX-PS600 GDI window, perform the following

■ **For Windows 3.1 or**
Windows for Workgroups 3.11 users:

1 Double click the *Panasonic KX-PS600 Tools* icon in the Program Manager

The Panasonic KX-PS600 Tools window will be displayed

2 Double click the *Printer Console* icon.
Go to step 3

■ **For Windows 95 users:**

1 Click Start , move the pointer to "Programs", then to "Panasonic KX-PS600 Tools"

2 Click "Printer Console".

3 Click the "Control Panel" tab

4 Click the Printer list box.

5 Select "GDI>> Panasonic KX-PS600 GDI".

6 Click 📝 (Printer Setup)

The Panasonic KX-PS600 GDI window will be displayed
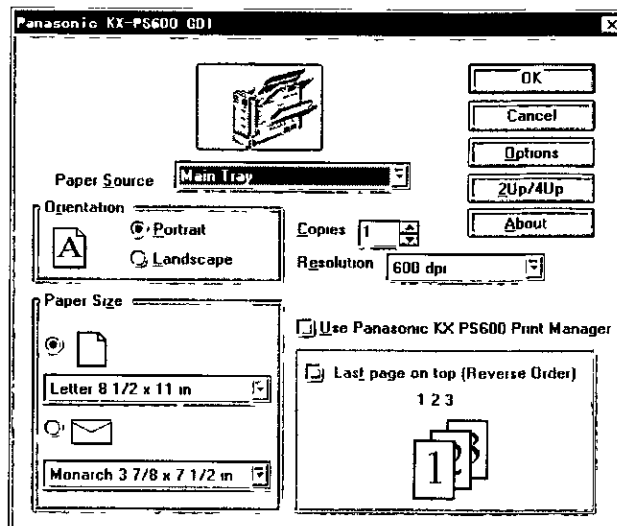
Notes·

- After using features such as 2 Up/4 Up and Overlay in the GDI mode, you must revert back to the original settings, otherwise the next print job will utilize the same features
- Some applications may not allow you to change the settings through the Panasonic KX-PS600 GDI window In that case, you can change the settings using the Control Panel in Windows as follows

For Windows 3 1/
Windows for Workgroups 3.11 users:
1. Perform steps 1~4 of "From the Printers in Windows" on page 29
2. Click Setup in the Printers window
3. Make the desired changes

For Windows 95 users
1 Click Start , move the pointer to "Settings" and click "Printers"
2 Double click the *Panasonic KX-PS600 GDI* icon
3. Click "Printer" on the menu bar and click "Properties" The selected printer's Properties window will be displayed
4 Click "Details" tab
5 Click Setup.
6. Make the desired changes

Paper Source
Your unit has only one paper source, the Main tray.

Orientation
Choose Portrait (vertical) or Landscape (horizontal).

Paper Size
Allows you to select a different paper size.

Copies
Allows you to determine how many copies of the document will be printed.

Resolution
Your unit provides two resolution settings:
600 × 600 dpi (dots per inch) and 300 × 300 dpi.
Higher resolution produces better quality output but requires more time to print a document.

> **Note:**
> - Printing at 600 dpi will take longer than printing at 300 dpi. In the effort of saving time, it is recommended that you consider the following when printing documents.
> - **300 dpi:** Text files/Files containing line art/Drafts, proofs on non-final versions of graphics or photo inclusive data files.
> - **600 dpi:** Final print of Graphic files, photos or presentation files/Any file requiring crisp, clear definition of very small or very large fonts.

Use Panasonic KX-PS600 Print Manager
Selecting "Use Panasonic KX-PS600 Print Manager" turns the Print Manager on when using GDI Mode. The KX-PS600 Print Manager allows you to use:

- Last page on top (reverse order printing) (☞ P. 37)
- Duplex Printing (☞ P. 38)
- Overlay (☞ P. 39)
- Local Queue (☞ P. 32) both in GDI Mode as well as in PCL Mode

However, the print speed will be slower when the KX-PS600 Print Manager is activated.

Last page on top (Reverse Order)
The unit normally prints documents in page number order (i.e. page 1 first). Clicking on the check box at the left of "Last page on top (Reverse order)" will instruct the unit to print your output in reverse order.

OK
Click OK to make your changes take effect and return to the previous screen.

Cancel
Click Cancel to ignore any changes you have made and return to the previous screen.

Options
This button provides advanced GDI features, such as duplex printing, and overlay. Also see "Using Options" on page 38.

2 Up/4 Up
The unit lets you print 2 or 4 pages on a single sheet of paper. Also see "Using 2 Up/4 Up" on page 42.

About
Click About to display the program version and copyright information.

Chapter 3 KX-PS600 GDI Mode

Printer Function

Using Options

1 Make sure that "Use Panasonic KX-PS600 Print Manager" is selected in the Panasonic KX-PS600 GDI window (☞ P. 36).

**2** Click [Options] in the Panasonic KX-PS600 GDI window.

The Options screen will be displayed.
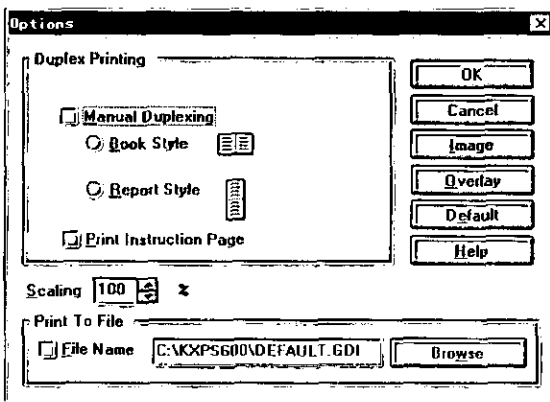
Duplex Printing
You can print your file on both sides of the paper by first selecting "Manual Duplexing", then selecting either Book or Report. When performing this feature, follow the instructions displayed on the screen.

Select "Print Instruction Page" to print a duplex instruction page at the end of the initial printing. This page provides instructions and input paper orientation to show you how to turn and reinsert the printed pages.

Scaling
Use "Scaling" to reduce or enlarge your output on the printed page from 10% to 200%.

Print to File
If you select "File Name", the output will go to a file instead of the unit.

The print file is stored in GDI format. Use the Add button on the Local Queue of the KX-PS600 Printer Console (☞ P. 32) to print from a file.

Image
The Image feature lets you adjust the brightness and contrast of your output. Also see "Using Image Options" on page 42.

Overlay
The Overlay feature lets you overlay an image over any document printed in GDI Mode (☞ P. 39).

Default
Click [Default] to restore all settings to their default values.

Help
Click [Help] for detailed information about the KX-PS600 Help system. Within the Help system, you can select Contents to see a list of topics related to the KX-PS600.

Using Overlay

You can use the Overlay feature to:

- Incorporate your letterhead on the first page of a business letter.
- Print your logo at the bottom of each page of a set of presentation slides.
- Overlay the word "Confidential" on every page of an important document.
- Print a special cover page or trailer page (☞ below) for each print job.

1 **Ensure that the "Use Panasonic KX-PS600 Print Manager" is selected in the Panasonic KX-PS600 GDI window (☞ P. 36).**

2 **Click [Options].**

The Options screen will be displayed (☞ P. 38).

3 **Ensure that the "Manual Duplexing" in the Duplex printing box is disabled.**

4 **Click [Overlay].**

The Overlay Options screen will be displayed.
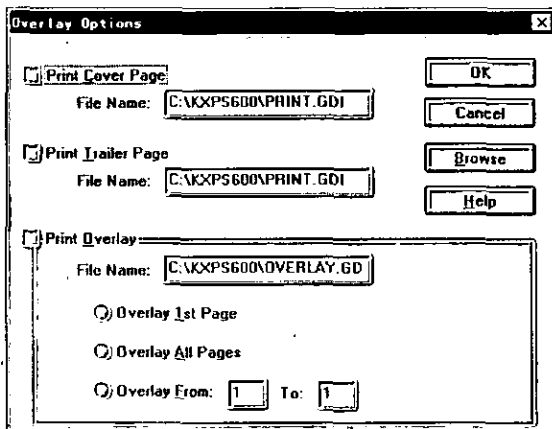
Print Cover Page
Select this feature to print a cover page on a separate page before the remainder of the document.
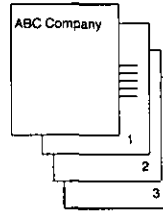
Print Trailer Page
Select this feature to print a trailer page on a separate page after the document has been printed.
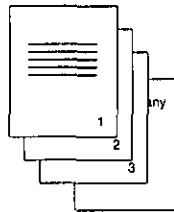
Print Overlay
This feature will overlay your image on the pages of your document. The effect is similar to printing your image on a transparency, then putting the transparency over your document.
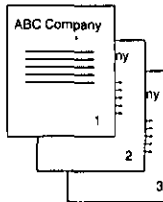
- Select Overlay 1st Page to overlay the image only on the first page of the document.
- Select Overlay All Pages to overlay the image on each page of the document.
- Select Overlay From to overlay the image on a range of pages within the document.

Browse
After selecting Print Cover Page, Print Trailer Page, or Print Overlay, clicking [Browse] will let you search for the GDI file in the file system.

Overlaying and Printing a Document

1 Using an application such as Paintbrush, CorelDRAW or PageMaker, create and save the graphic file that you want to overlay on a document.

2 Verify the graphic by printing it, and minimize the application.

3 Perform steps 1 to 6 of "KX-PS600 GDI Mode" on page 36, however, after step 5 on page 36, click "Set as Default", before going to step 6.
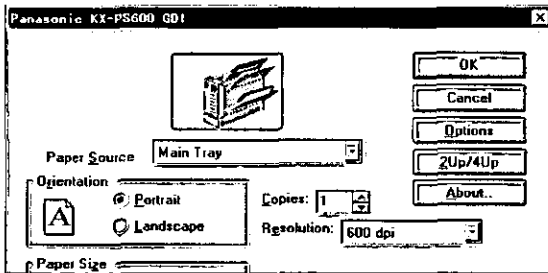
4 Click [Options].

The Options window will be displayed.
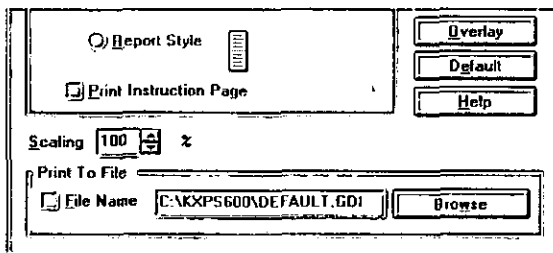
5 Select "File Name" by clicking on the check box at the left.

An X mark appears in the check box.
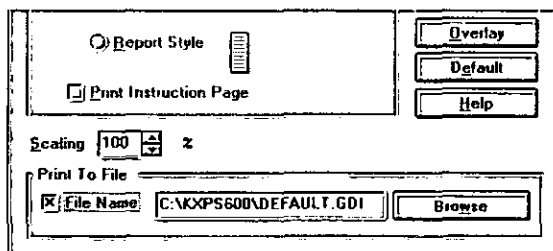
6 Enter a new file name or the same file name as used in step 1, but change the extension of file name to GDI (xxx.GDI) and click [OK].

- The GDI file extension must be used to designate the difference between a GDI file and an application file. Otherwise, the application file will be overwritten by a GDI file.

7 Click [OK] in the Panasonic KX-PS600 GDI window.

8 Minimize the KX-PS600 Printer Console window.

9 Double click the same application which you minimized in step 2 and perform the print operation. (Actually you will be printing to a file, so no print-out will come from the KX-PS600). Now minimize or close this application.

Your created file will be stored as a GDI file.

10 Perform steps 2 to 6 of "KX-PS600 GDI Mode" on page 36.

11 Select "Use Panasonic KX-PS600 Print Manager" by clicking on the check box.

An X mark appears in the check box.
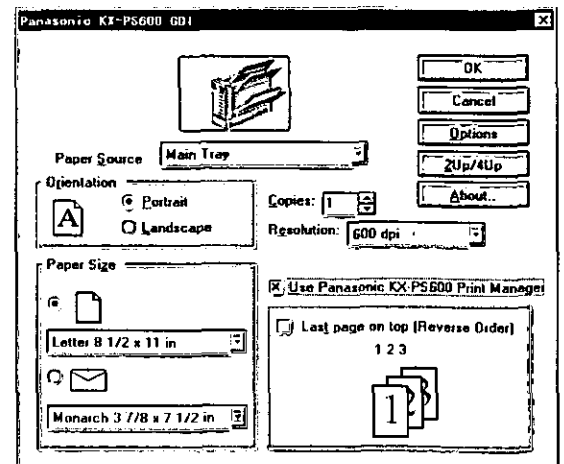
(continued)

12 Click [Options]

13 Deselect "File Name" by clicking off the check box at the left.

The X mark will be cleared from the check box

```
Options                                      [x]
 ┌Duplex Printing ─────────────────┐   ┌──────────┐
 │                                 │   │    OK    │
 │   ☐ Manual Duplexing            │   ├──────────┤
 │     ⊙ Book Style      [≡≡]      │   │  Cancel  │
 │                                 │   ├──────────┤
 │     ⊙ Report Style    [≡]       │   │  Image   │
 │                                 │   ├──────────┤
 │   ☑ Print Instruction Page      │   │  Overlay │
 │                                 │   ├──────────┤
 └─────────────────────────────────┘   │ Default  │
 Scaling [100 ⊜] %                      ├──────────┤
 ┌Print To File ───────────────────┐   │   Help   │
 │ ☐ File Name  [C \KXPS600\DEFAULT GDI]│[ Browse ]└──────────┘
 └─────────────────────────────────┘
```

14 Click [Overlay].

The Overlay Options window will be displayed

```
Overlay Options                              [x]
 ☐ Print Cover Page               ┌──────────┐
   File Name  [C \KXPS600\PRINT GDI]│    OK    │
                                   ├──────────┤
 ☐ Print Trailer Page             │  Cancel  │
   File Name  [C \KXPS600\PRINT GDI]├──────────┤
                                   │  Browse  │
 ┌Print Overlay ─────────────────┐ ├──────────┤
 │ File Name [C \KXPS600\OVERLAY GD]│   Help   │
 │                               │ └──────────┘
 │   ⊙ Overlay 1st Page          │
 │                               │
 │   ⊙ Overlay All Pages         │
 │                               │
 │   ⊙ Overlay From [1] To [1]   │
 └───────────────────────────────┘
```
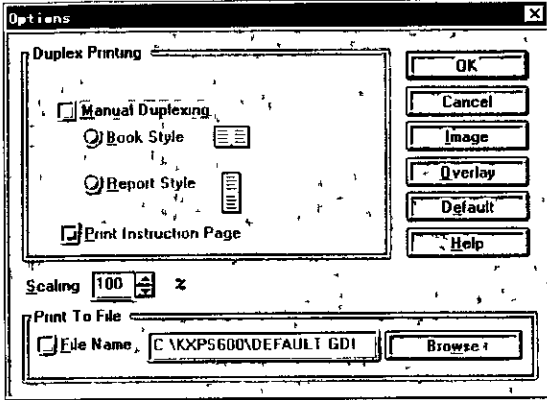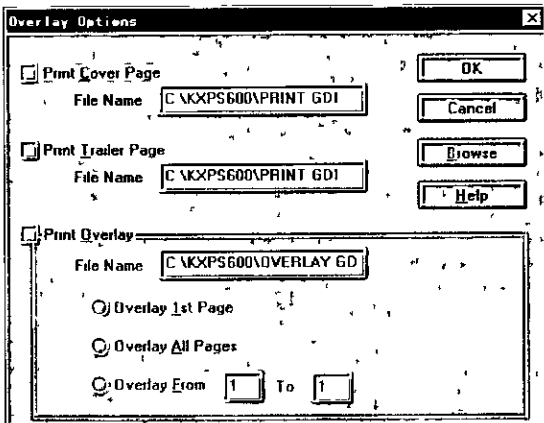
15 Click on the desired selection (s).

For example, select Print Cover Page

16 Click [Browse].

The Browse window will be displayed

```
Browse                                        [x]
 File Name            Directories
 [god]                c \kxps600        ┌──────────┐
                                        │    OK    │
 bookdn gdi      ↑    ⌂ c \       ↑     ├──────────┤
 default gdi          ⌷ kxps600         │  Cancel  │
 overlay gdi          ⌷ data            ├──────────┤
 print gdi            ⌷ help            │ Network  │
 reportdn gdi         ⌷ spool           └──────────┘
 wtpage gdi      ↓                ↓

 List Files of Type        Drives
 [GDI Files ( GDI) ▼]      [⊟ c  ms dos_6 ▼]

 Select File As ⊙ Cover Page  ⊙ Overlay  ⊙ Trailer Page
```
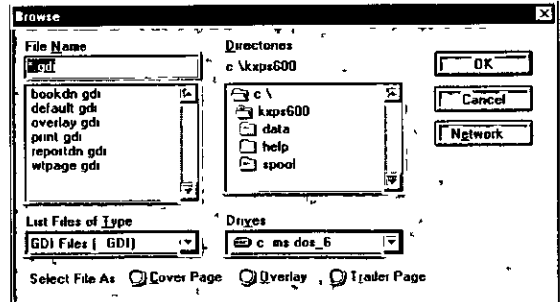
17 Double click on the directory in which you saved your graphic file (GDI file), then select the file and click [OK].

The selected file will appear in a box in the Overlay Options window

18 Click [OK] in the Overlay Options window.

19 Click [OK] in the Options windows.

20 Click [OK] in the Panasonic KX-PS600 GDI window.

21 Minimize the KX-PS600 Printer Console window

22 Print the desired document from desired application.

The graphic will be overlaid on the pages of your document

Chapter 3

KX-PS600 GDI Mode (Using Overlay)

Printer Function

Using Image Options

1 Click [Options] in the Panasonic KX-PS600 GDI window (☞ P. 36).

The Options screen will be displayed.

2 Click [Image].

The Image Options screen is displayed.
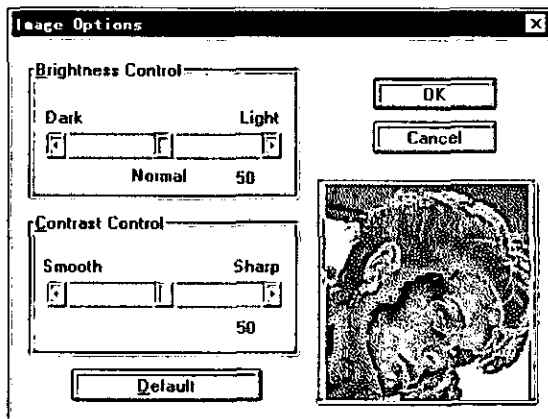
The Image Options screen lets you adjust the appearance of your output. These adjustments only apply to certain types of images and grayscales, not to text or black line drawings.

The figure at the right of the screen will change as you move the controls, giving you a rough idea of the effect of your adjustments.

Note:
* This feature may not be effective for some applications and the images scanned by KX-PS600.

Brightness Control
Drag the **Brightness** knob or click on the **arrows** to vary the shades of gray, making the image output appear lighter or darker.

Contrast Control
Drag the **Contrast** knob or click on the **arrows** to make the image output appear sharper or smoother.

Using 2 Up/4 Up

1 Click [2 Up/4 Up] in the Panasonic KX-PS600 GDI window.

The 2 Up/4 Up Printing screen will be displayed.
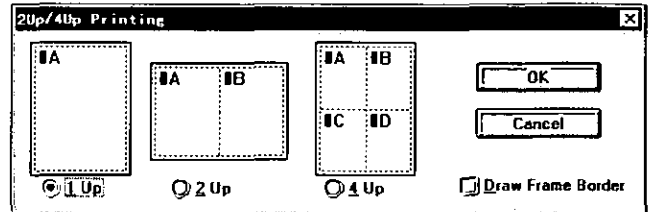
* **1 up**: prints normally.
* **2 up**: prints two pages on one sheet of paper. In portrait mode, the pages display side by side as in a book.
* **4 up**: prints four pages on one sheet of paper.

Draw Frame Border
If you click on **Draw Frame Border**, the unit will draw a box around each page on the paper.

KX-PS600 PCL Mode

You can select PCL Mode from an application, through the Control Panel's Printer window, or through the Control Panel tab of the KX-PS600 Printer Console window (☞ P 30)

PCL Control Panel

The KX-PS600 lets you print from MS-DOS applications, but you must run the application from Windows or within the DOS box under Windows Your unit also provides a PCL Control Panel similar to the conventional PCL printer's key panel for DOS PCL printing This allows you to change printer settings for your DOS print jobs

To display the Panasonic KX-PS600 PCL Control Panel, perform the following

■ *For-Windows 3.1-or Windows for Workgroups 3.11 users:*

1 From the Program Manager double click the *Panasonic KX-PS600 Tools* icon

2 Double click the *Printer Console* icon.
Go to step 3

■ *For Windows 95 users:*

1 Click [Start], move the pointer to "Programs", then to "Panasonic KX-PS600 Tools".

2 Click "Printer Console"

3 Click the "Control Panel" tab.

4 Click *PCL Control Panel* icon ([🖳]).

The Panasonic KX-PS600 PCL Control Panel window will be displayed
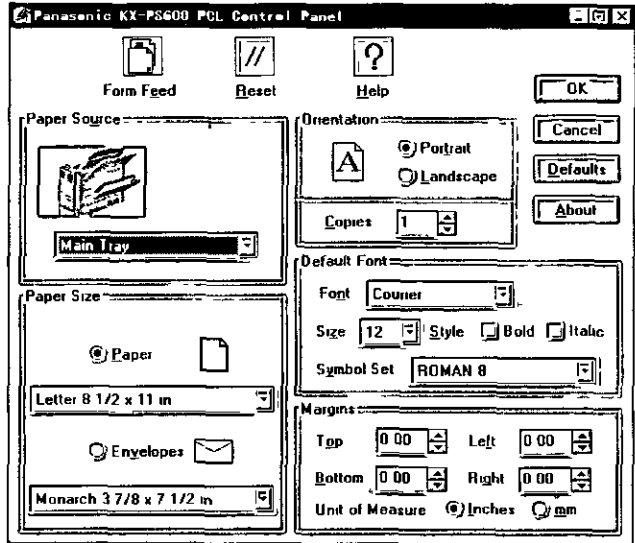
Form-Feed
Some PCL files do not include a form feed (a command to eject a page) at the end of the file, so the last page will not be printed If this happens, you must click the **Form Feed** button to print it out

Reset
Clicking the **Reset** button clears all data from the printer's memory, including forms, macros, and un-printed page images
Note that the **Reset** button does not change the printer settings (orientation, paper size, number of copies, etc) to the original default values Click [**Default**] to restore defaults

Help
Click the **Help** button for detailed information about the KX-PS600's Help System

Paper Source
Your unit has only one paper source Main tray

Paper Size
To select paper/envelope from within the Paper Size box, first click on the paper/envelope icon Then select the paper/envelope size that you wish to use

(continued)

Printer Function

Orientation
Choose Portrait (vertical) or Landscape (horizontal).

Copies
Allows you to determine how many copies of the document will be printed.

Default Font
Default font lets you select the default typeface, size, and style for print jobs that are output from MS-DOS applications run under Windows and for Windows PCL print jobs. Both MS-DOS and Windows applications can override the default font selection.

* Please note that you do not have access to Windows TrueType fonts for MS-DOS print jobs.

Margins
The Margins settings let you define the top, bottom, left, and right margins for PCL print jobs. Please note that DOS and Windows applications may override these settings.

OK
Click [OK] for your changes to take effect. When you exit, the PCL Control Panel will load the PCL compatible interpreter into your PC's memory. This will save time when you later print from MS-DOS applications under Windows.

However, you can close the PCL compatible interpreter and recover the memory, if you wish. Click the **KX-PS600 PCL Control Panel** icon, then click [Close].

Cancel
Clicking [Cancel] will lose any changes you have made to the PCL printer settings, and will exit the PCL Control Panel without loading the PCL compatible interpreter.

Default
Click [Default] to restore all printer settings on the screen to their default values.

About
Click [About] to display the program version and copyright information.

KX-PS600 Device Status

The Panasonic KX-PS600 Device Status program has two primary functions:

- To let you monitor the status of the local device.
- To alert you in case of a problem with your unit, such as paper out.

To display the KX-PS600 Device Status window, perform the following.

■ *For Windows 3.1 or Windows for Workgroups 3.11 users:*

1 From the Program Manager double click the *Panasonic KX-PS600 Tools* icon.

2 Double click the *Printer Console* icon. Go to step 3.

■ *For Windows 95 users:*

1 Click [Start], move the pointer to "Programs", then to "Panasonic KX-PS600 Tools".

2 Click "Printer Console".

3 Click the "Control Panel" tab.

4 Click [Local Device Status] in the Printer box.

A. Clicking this button will reduce the displayed screen and the box G will disappear.

B. This box shows an error or status message and corresponding icon.

C. This box lists the name of the printer, the owner of the print job, the format of the print job, the name of the print job, and the page number for the job currently being printed.

D. The **Pause** button lets you pause printing. For example, you can pause in order to cancel the print job from the application.

E. The **Resume** button lets you resume printing after you have paused printing, or after recovering from an error situation.

F. The **Delete** button lets you delete the job currently printing.

G. This box displays a picture of your unit. If a problem has occurred, an arrow identifies where the unit is affected. The display also provides corrective action for each error or status message.

H. If you need additional help in resolving the problem, click [▶]. This animated help feature will walk you through the steps required to get your unit running once again.

Chapter 3

KX-PS600 Device Status

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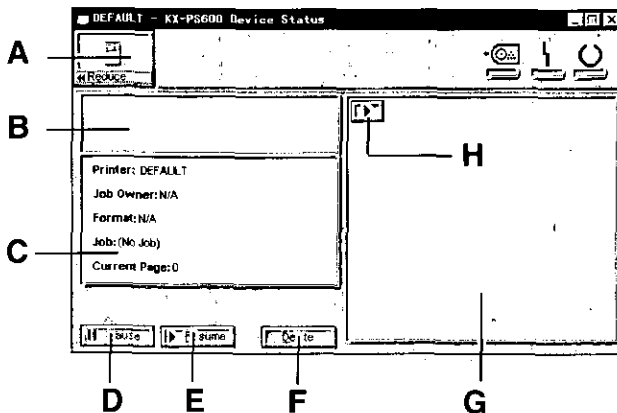
Before Scanning Documents

Acceptable Documents

The unit can scan documents that meet the following conditions:

—Document width: 89 to 216 mm (3.5" to 8.5")
—Document length: 55 to 356 mm (2.17" to 14")
—Effective scanning width: 208 mm (8.19")
—Document feeder tray: up to 20 pages of document [75 g/m^2 (20 lbs.)]
—Document weight: 60 to 120 g/m^2 (16 to 32 lbs.) for continuous scanning, 60 to 135 g/m^2 (16 to 36 lbs.) for single page scanning

Minimum document size   Maximum document size

89 mm (3.5")
(min. document guide width)

55 mm (2.17")

356 mm (14")

216 mm (8.5")

Effective scanning width

208 mm (8.19")
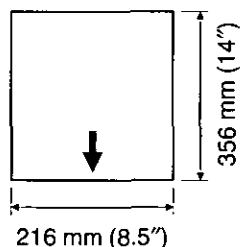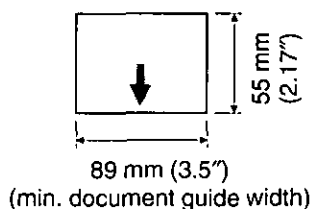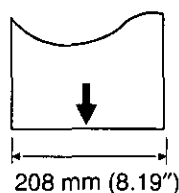
↓: Document
  inserting direction

Unacceptable Documents

The following documents may cause a jam:

—Documents bound with clips, staples, or other similar objects
—Documents on which ink, paste, or correction fluid that has not completely dried

Do not use the following types of documents. Make a clear copy on a flat bed copier of these documents and then feed the copy into the unit.

—Paper with a chemically treated surface, such as carbon paper or carbonless duplicating paper
—Electrostatically charged paper
—Heavily curled, creased, or torn paper
—Paper with a coated surface
—Original or precious photograph
—Small-sized paper such as a slip or voucher
—Paper with faint contrast between the print and the background
—Paper with printing on the reverse side that can be seen through the front
—Plastic or metal sheet
—Other than rectangular shaped paper (e.g. round or triangular shaped paper)

Note:
• All literary, musical, artistic and typographical works are copyrighted. While certain reproduction of copyrighted work may be permitted for "fair dealing" e.g., for research, private study or for the purpose of criticism or review, generally reproduction of a copyrighted item is not permitted without the permission of the copyright owner.

Scanner Detector Program

The Scanner Detector program is required only when scanning a document(s) to your PC. If you wish to use other applications in Windows, it is recommended that you deactivate the scanner detector (see below) as it may have negative impact on their performance.
When you want to scan to your PC again, you must reactivate the scanner detector by double clicking the Scanner Detector icon in the KX-PS600 Tools, starting the Destination Panel ( ) or the KX-PS600 Document Desktop Program ( ).

Deactivating the scanner detector:
Windows 3.1:
1. Click the KX-PS600 Scanner Detector icon.
2. Click "Close".
Windows 95:
1. Click the Task bar using the right mouse button.
2. Click "Close" using the left mouse button.

KX-PS600 Destination Panel

The KX-PS600 Destination Panel consists of 8 buttons that let you perform different operations. All these operations except the copy operation can be performed through the KX-PS600 Document Desktop (☞ P. 50). However, using the KX-PS600 Destination Panel is convenient when you repeatedly use the same operation. Before performing these operations through the Destination Panel, make sure the KX-PS600 Destination Panel is displayed on the screen.

To display the KX-PS600 Destination Panel, perform the following.

■ *For Windows 3.1 or Windows for Workgroups 3.11 users:*

1 From the Program Manager double click the *Panasonic KX-PS600 Tools* icon.

2 Double click the *Destination Panel* icon.

■ *For Windows 95 users:*

1 Click ⟨Start⟩ , move the pointer to "Programs", then to "Panasonic KX-PS600 Tools".

2 Click "Destination Panel".

ⓐ ⓑ ⓒ * ⓓ * ⓔ ⓕ Manager button (☞ P. 49)
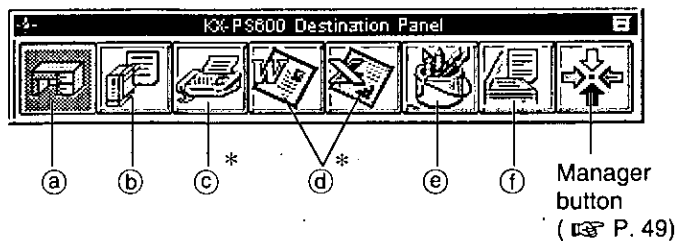
* The Fax (ⓒ) and OCR (ⓓ) buttons are displayed only when the Fax and OCR programs are installed (☞ P. 23, 60, 63, 64). The designs of the ⓒ and ⓓ buttons vary depending on the installed application.

> **Note:**
> • If you want to use this destination panel frequently, it is recommended that you register it in Windows startup group.

ⓐ Scan to Desktop
The scanned documents are displayed in the workspace of the KX-PS600 Document Desktop as the thumbnail image. The thumbnail is named "untitled-x" automatically. Refer to page 50 for the KX-PS600 Document Desktop Program.

ⓑ Scan to PC and Printer
The document is first scanned and sent to your PC, then it is printed through the KX-PS600 Printer Driver. Before printing you can edit, enlarge, reduce or duplicate the scanned document on PC.

ⓒ Scan to FAX
The scanned document is faxed through the installed fax program.

ⓓ Scan to OCR
The scanned text document is converted to the editable text-document-through the installed OCR program (ex. TextBridge). Then the Word Processor program is opened.

ⓔ Scan to Microsoft Paintbrush (Paint)
The scanned document is sent to Paintbrush (Paint) application and the scanned graphic can be edited.

ⓕ Local Copy
The scanned document is copied fairly quickly when making single letter size copies at a print resolution of 300 × 300 dpi. However, when you try to scan documents at a higher resolution, more than one copy or attempt to scan to a legal size, the copying process slows down.
To expedite this process you must install an optional RAM Expansion board (☞ P. 83) referring to the following table.

1 MB RAM board	Making a copy with the quality setting at 300 × 300 dpi will be fast. However 300 × 600 dpi setting will be slow.
2 MB RAM board	Making a copy with the quality setting at 300 × 600 dpi and paper size setting at legal will be slow.
4 MB RAM board	Making a copy with any setting will be fast.

> **Note:**
> • It may be required to install an optional RAM Expansion board (☞ P. 83) to copy a complicated document such as photo.

Chapter 4

Before Scanning / KX-PS600 Destination Panel

Scanner Function

Scanning Documents

To perform a scanning operation using a Destination Panel button (ⓐ – ①   ☞ P. 47), follow the steps below.

1 ❶ **Open the output tray (top cover).**
 ❷ **Extend the paper output support by sliding it upward.**
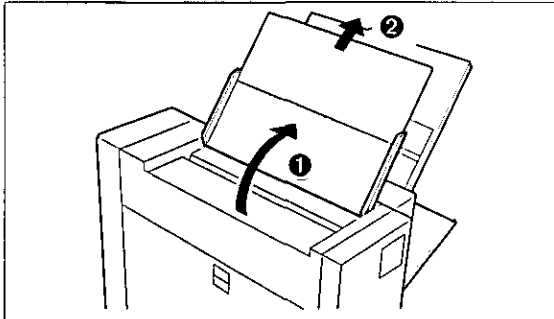
2 **Extend the document feeder support by holding its top edge and sliding it upward.**
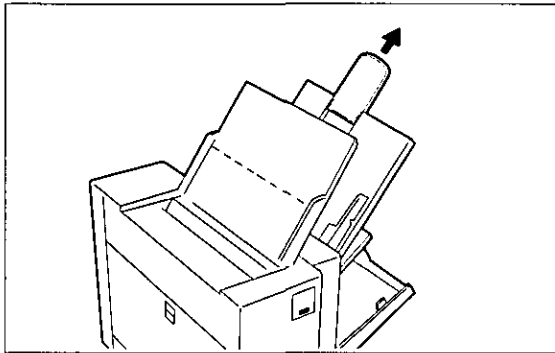
Note:
 • When you load the legal size document, open the document output support.
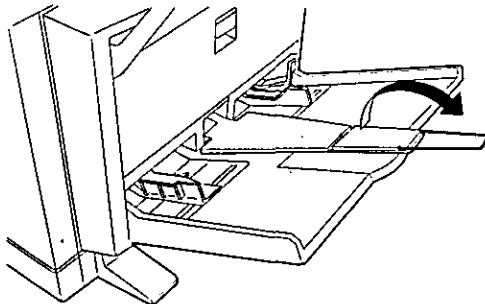
3 **Display the KX-PS600 Destination Panel** (☞ P. 47).

4 **Click your desired button on the Destination Panel (ⓐ – ①).**

5 **Fan the stack of documents and tap it on a level surface to avoid document jams or skewed scanning.**
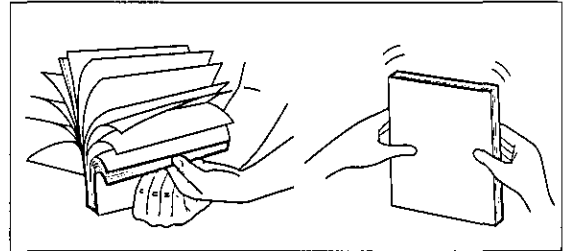
Notes:
 • A maximum of 20 sheets of 75 g/m² (20 lbs.) can be inserted at a time in the document feeder tray.
 • It is recommended to count the number of documents to confirm that it matches with the total number of documents displayed on your PC after scanning.

6 ❶ **Insert the documents in the document feeder tray with the printed sides facing up and the top of the documents first.**
 ❷ **Adjust the document guides to the width of the documents.**
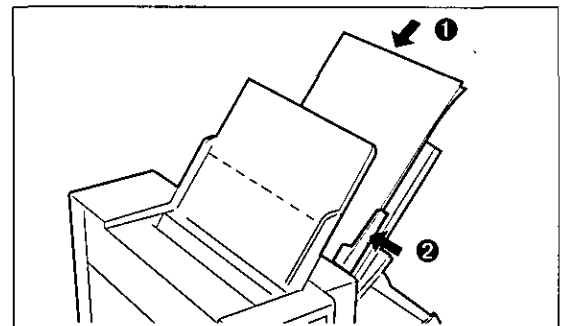
A dialog box will be displayed on the screen to prompt you to start or cancel the operation (☞ P. 62). In this dialog box you can change the settings according to your requirements.

Note:
 • If "Enable Auto Scanning" has been selected (" √ " mark is checked) from the selections menu of the Manager button (☞ P. 49), the documents are scanned automatically and no dialog box will be displayed.

7 Click OK to start operation.

An operation will be performed depending upon the button you clicked in step 4 on page 48

> **Notes:**
> • If you click the ⓑ button (Scan to PC and Printer)
>   A dialog box will be displayed where you can change the print settings If you need to make further changes, follow the steps below
>   1 Click Setup in the dialog box
>   2 Click Options in the Setup dialog box The KX-PS600 GDI window will be displayed (☞ P 36)
> • If you click the ⓒ button (Scan to FAX)
>   The Fax send dialog box will be displayed and you can designate the receiver

Manager Button

The Manager button (🔽) on the Destination Panel has the following items

• Preferences
—Selecting "Preferences" will display the Preferences dialog box (☞ P 62) In this dialog box you can change the settings of the Destination Panel button

• Device Status Monitor (☞ P 45)
—Shows the Status Monitor

• Enable Auto Scanning
—Selecting "Enable Auto Scanning" will automatically start scanning operation when you insert the document(s) in the document feeder tray after clicking a Destination Panel button (☞ P 47)

This selection is effective even if the Destination Panel or the Document Desktop is not displayed on the screen (☞ P 50)

> **Notes:**
> • As you click "Enable Auto Scanning", the displayed menu of selections disappears If you wish to confirm whether this selection has been enabled, click the Manager button again and you will see a " √ " mark to the left of "Enable Auto Scanning"
> • You can also select "Enable Auto Scanning" from the KX-PS600 Document Desktop by choosing "Enable Auto Scanning" from the Options menu

• Options
—The "Destination Panel Size" option allows you to change the Destination Panel button size setting
—Selecting "Destination Panel Always Visible" will always display the Destination Panel on the front screen
—Selecting "Show Tooltips" will show the name of the Destination Panel button when the pointer is on the button

Chapter 4   KX-PS600 Destination Panel

Scanner Function

KX-PS600 Document Desktop Program

The KX-PS600 Document Desktop is a versatile program that lets you organize, edit, annotate, and redistribute your scanned documents without ever switching programs.

Note:
- If you have installed the KX-PS600 software (☞ P. 22), the KX-PS600 Document Desktop program has also been installed at the same time.

To display the KX-PS600 Document Desktop window, perform the following or it will be automatically displayed when performing the "Scan to Desktop" operation from the KX-PS600 Destination Panel (☞ P. 47).

■ *For Windows 3.1 or Windows for Workgroups 3.11 users:*

1 **From the Program Manager double click the *Panasonic KX-PS600 Tools* icon. Then double click the *Desktop* icon.**

■ *For Windows 95 users:*

1 **Click** $\boxed{\text{Start}}$**, move the pointer to "Programs", then to "Panasonic KX-PS600 Tools". Then click "Document Desktop".**

Viewing Modes (☞ P. 52)　　Menu Bar　　Toolbar

Control Center　　　Workspace　　　Status Bar

The KX-PS600 Document Desktop window is divided into five areas. Below is a description of each.

Workspace
The workspace displays the documents in the program, allowing you to view, manage, and edit them. It differs in appearance and performance depending on the viewing mode (☞ P. 52).

Menu Bar
The menu bar contains all the commands available in the program. If a command is not available because of the viewing mode or other conditions, it is grayed out. Many frequently used commands are also available in the toolbars.

Toolbar
The toolbar contains frequently used commands for easy access. The toolbar changes depending on which viewing mode you are in. The following table provides a brief description of all the icons in the program and when they appear:

Icon	Description	Viewing Mode
Document Information	Provides information about the selected document in the workspace	Thumbnails, List
Duplicate a Document	Copies the selected document to the same folder	Thumbnails, List
Rotate Left 90 Degrees	Turns the document 90 degrees counter clockwise	Thumbnails
Rotate Right 90 Degrees	Turns the document 90 degrees clockwise	Thumbnails
Find Document	Locates all documents with names matching the search criteria you define	Thumbnails, List

(continued)

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Icon	Description	Viewing Mode
Clip	Combines all selected documents into one multi-page document. Disabled if less than two documents are selected	Thumbnails, List
Unclip All	Separates combined documents back into single-page documents. Disabled if a multi-page document is not selected	Thumbnails, List
Unclip One	Separates the currently selected page in a multi-page document from the document and makes it a single-page document. Disabled if a multi-page document is not selected	Thumbnails, List
Rearrange Thumbnails	Arranges all thumbnails neatly in the workspace	Thumbnails
Preferences	Opens the Preferences dialog box where you can change the scan settings and other program features (☞ P. 62)	All modes
Print List	Prints a listing of the current folder's contents, including document names, last saved dates, sizes, number of pages, and comments (☞ P. 52)	List
Zoom In	Increases the magnification by one level. Disabled if at the highest magnification	Page
Zoom Out	Reduces the magnification by one level. Disabled if at the lowest magnification	Page
Fit Width	Resizes the currently shown page to exactly fit the width of the workspace. This is a good setting for wide documents	Page
Fit Height	Resizes the currently shown page to exactly fit the height of the workspace. This is a good setting for long documents	Page
Previous Page	Shows the previous page in a multi-page document. Disabled if already showing the first page	Page

Icon	Description	Viewing Mode
Next Page	Shows the next page in a multi-page document. Disabled if already showing the last page	Page
Go to Page	Allows you to go to a specific page in a multi-page document. Disabled if the current document is a single-page document	Page
Previous Document	Shows the previous document in the current folder. Disabled if the currently shown document is the first one	Page
Next Document	Shows the next document in the current folder. Disabled if the currently shown document is the last one	Page
Go to Document	Allows you to go to a specific document in the current folder. Disabled if only one document occupies the current folder	Page

Control Center

The top part of the Control Center varies depending on the viewing mode (☞ P. 52). In the Thumbnails and List modes, it displays all the folders in the program. By clicking on a folder, you can view its contents in the workspace. In the Page mode, it contains a toolbox where you can select tools for annotating or modifying the currently shown page.

The bottom part of the Control Center contains the Linked Application Tray (☞ P. 60). By dragging documents from the working area to the appropriate program icon, you can send a copy of the selected document to that program.

Status Bar

The status bar changes depending on program activity. It shows the information about the program status and workspace contents.

Chapter 4 KX-PS600 Document Desktop Program

Scanner Function

Viewing Modes

The KX-PS600 Document Desktop has three viewing modes: Thumbnails, Page, and List. This section briefly describes each mode and how the workspace changes when it is active.

Thumbnails Mode

The Thumbnails mode is the default mode for the program. The KX-PS600 Document Desktop always starts in this mode. All documents in the current folder appear as miniature thumbnails. You can create and delete folders, combine and uncombine documents, and perform editing tasks other than annotating and adding or deleting blocks of data.

Selected documents appear with a color border. To select all the documents in the current folder, choose "Select All" in the Edit menu. To select multiple documents individually, press the CTRL or Shift key as you click on each document.

When a combined document appears in the Thumbnails mode, a scroll bar appears below its thumbnail showing the total number of pages and the current page. The name of the combined document matches that of the first page.

List Mode

The List mode shows the names of all documents in the selected folder along with the last saved date, file size, number of pages, and comments you added. This mode is most useful if you want a quick overview of the documents in the KX-PS600 Document Desktop. A Print List icon in the toolbar enables you to print the information shown in the working area.

Selected documents are colored. To select all the documents in the current folder, choose "Select All" in the Edit menu. To select multiple documents individually, press the CTRL or Shift key as you click on each document.
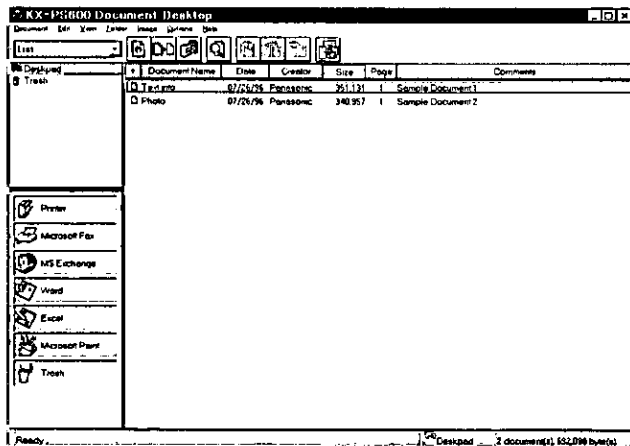
Page Mode

The Page mode is ideal for detailed viewing and modifying documents. You can only show one page at a time, but can zoom in up to 200% (twice the actual size), or down to 25% (one-quarter the size).

You can also make changes to the document. In addition to the standard editing commands, a toolbox in the Control Center provides tools for highlighting, erasing, annotating, adding text, and copying the current document.
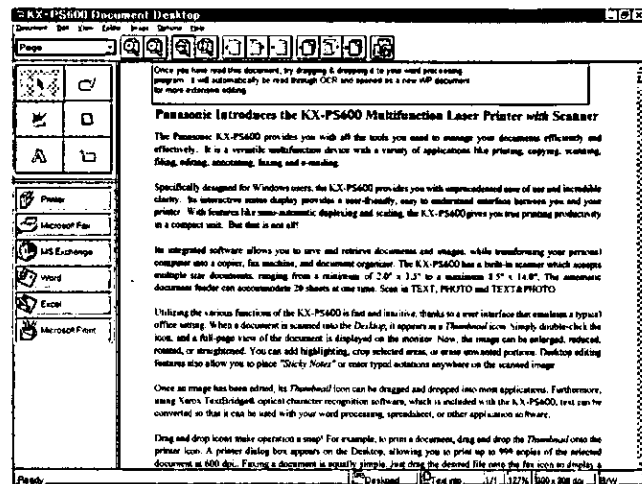
Switching Viewing Modes

You can switch modes by:

- selecting the desired viewing mode from the drop down list in the toolbar.
- choosing Thumbnails, Page, or List from the View menu.
- double clicking on a thumbnail to switch to the Page mode.
- double clicking on an icon in the List mode to switch to the Page mode.
- double clicking on a document in the Page mode to switch to the Thumbnails mode.

Organizing Documents

The KX-PS600 Document Desktop allows you to organize your scanned images by grouping them in folders You may create as many folders as you like in the KX-PS600 Document Desktop and name them anything you like with **two exceptions** The names **Deskpad** and **Trash** are special folders created by the program

• Deskpad is the default folder
• Trash is a special folder that stores documents you wish to delete By storing them here, you can still recover them if you change your mind To permanently delete these documents, choose "Empty Trash" from the Options menu Or in the Trash section of the Preferences dialog box (☞ P 62), set the automatic trash emptying guidelines

Adding a Folder
To add a folder, perform the following

1 Choose "Add" from the Folder menu.

2 Enter a name for the folder in the Add Folder dialog box

The maximum length of a folder name is 30 characters Any combination of alphanumeric characters, including a hyphen (-), a slash (/), and a space ( ) is allowed when naming folders

3 Click OK .

Renaming a Folder
To rename a folder, perform the following

1 Select the folder you want to rename

2 Choose "Rename" from the Folder menu.

3 Enter the new name in the To: box of the Rename Folder dialog box.

4 Click OK .

Deleting a Folder
To delete a folder, perform the following

1 Choose "Delete" from the Folder menu

2 Select the folder you want to delete from the drop down list box

3 Click OK .

4 Click Yes to return to the main window.

Managing Documents

The KX-PS600 Document Desktop offers many ways for you to manage your documents You can search for documents that are not currently visible on screen, rename them, add comments, and do several other things to make your workplace more manageable

Searching a Document
To find a document, perform the following

1 Choose "Find" from the Document menu or click 🔍 in the toolbar

2 In the Find Document dialog box, enter the name, creator name or created date of the document you are looking for.

> **Note·**
> • To find similarly named documents or if you do not remember the full name of the one you want, include the wild card character (*) in the search

3 Click Find All .

All documents matching the search criteria appear in the Search list box

4 Select the one you want

5 Click OK to view in the Page mode.

(continued)

Scanner Function

Renaming Documents

To change the name of the document, perform the following.

1 Select the document you want to rename.

2 Choose "Rename" from the Document menu.

3 Enter the new name in the To: box.

4 Click OK.

Creating a New Document

After creating a new document, you can copy/cut an image and/or text from other documents and paste in the new document (☞ P. 57, 58).

To create a new document, perform the following.

1 Choose "New" from the Document menu.

2 In the New Document dialog box, select the size, resolution.

The unit of the size can be changed by selecting "UNIT".

3 Click OK.

> **Note:**
> • You can create a new document from a part of a document by using the clipboard.
>   1. Copy a desired part of a document within Page view (☞ P. 58).
>   2. Return to Thumbnails view.
>   3. Choose "New" from the Document menu.
>   4. Click "Clipboard" button.
>   5. Click "OK" button.

Viewing Document Information

To view the document information, perform the following.

1 Switch to the Thumbnails or List mode.

2 Choose "Info" from the Document menu or click 🔲 in the toolbar.

The Document Information dialog box opens where you can view the current document statistics, add or modify the comments, and change the name.

Moving Documents

You must be in the Thumbnails or List mode to move documents. There are two methods (A, B) to move them.

Method A:

1 Select and drag documents from the workspace to the desired folder in the Control Center.

Method B:

1 Select the documents you wish to move (☞ "Thumbnails Mode" on page 52).

2 Choose "Move To" from the Document menu.

3 Select the desired folder from the drop down list in the Move Document dialog box.

4 Click OK.

Duplicating Documents

To make a copy of the selected document, perform the following.

1 Switch to the Thumbnails or List mode.

2 Choose "Duplicate" from the Doucment menu or click 🔲 in the toolbar.

A new document named "untitled-x" (where x is the next available document number) will be displayed in the workspace.

Deleting Documents

There are three methods (A, B, C) to delete a document.

Method A:

1 **Drag the document to the Trash icon.**

2 **Click** Yes .

Method B:

1 **Select a document and choose "Delete" from the Document menu.**

2 **Click** Yes .

Method C:

1 **Select a document and press the Delete key on the keyboard.**

2 **Click** Yes .

To permanently remove the documents from the KX-PS600 Document Desktop, choose "Empty Trash" from the Options menu. Until you choose "Empty Trash" you can recover any documents in the Trash folder.

Arranging Documents

To neatly arrange the documents, perform the following.

1 **Switch to the Thumbnails mode.**

2 **Choose "Arrange Documents" from the View menu or click** 🄳🄳🄳 **in the toolbar.**

The KX-PS600 Document Desktop repositions all thumbnails in the current folder to appear neatly in the workspace.

Multi-page Documents

Multi-page documents help you clean up your desktop and ensure that documents that belong together stay together. They can be modified just like single page documents. You can create and ungroup multi-page documents in the Thumbnails and List modes only.

Creating Multi-page Documents

There are two methods (A, B) to create multi-page documents.

Method A:

1 **Drag and drop one document into a target document.**

The target document remains the last page. Each additional document you drag goes on top of those already in the group.

Method B:

1 **Select all the documents you want to group (☞ "Thumbnails Mode" on page 52).**

2 **Choose "Clip" from the Document menu or click** 🗐 **in the toolbar.**

Navigating Through Multi-page Documents

There are two methods (A, B) to navigate through a multi-page document.

Method A:

1 **In the Thumbnails mode, use the scroll bar below the thumbnail to navigate through the document when the document is selected.**

1/2
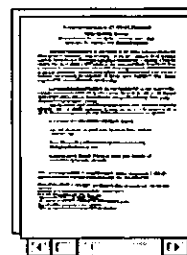
Method B:

1 **In the Page mode (☞ P. 52), use the page tools (🄳 , 🄳 , 🄳) in the toolbar to display different pages in a multi-page document.**

Chapter 4

KX-PS600 Document Desktop (Managing, Multi-page Documents)

Scanner Function

Ungrouping Multi-page Documents

To remove a page from a multi-page document:

1 Select the document and bring the page you want to remove to the top.

2 Choose "Unclip One" from the Document menu or click ☐ in the toolbar.

The removed page is named "Untitled-x" (where x is the next available document number).

To ungroup all pages in a multi-page document:

1 Select the document.

2 Choose "Unclip" from the Document menu or click ☐ in the toolbar.

Each page is named "Untitled-x" (where x is the next available document number).

Editing Documents

You can edit documents in the KX-PS600 Document Desktop to improve their appearance and emphasize or hide certain information. Most of the editing functions are available only in the Page mode.

Rotating Documents

You may rotate documents in the Thumbnails and Page modes.

1 Select the document you want to rotate.

2 Choose "Rotate" from the Image menu.

3 Click "Left 90 Degrees" or "Right 90 Degrees" in the submenu to rotate the document left or right by 90 degrees.

Notes:
- In the Thumbnails mode, you may click on the ☐ or ☐ in the toolbar to rotate the document left or right by 90 degrees.

- If you rotate a multi-page document, only the top page will be rotated.

Making Annotations

Annotations to documents include adding or erasing information in the document, copying blocks to the clipboard for pasting elsewhere, and highlighting or affixing notes to the document. All these actions are controlled by the toolbox in the upper portion of the Control Center in the Page mode
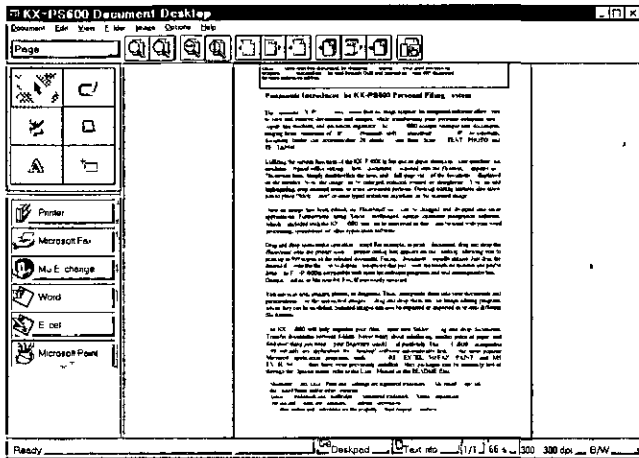
Tool	Purpose
▶ Pickup	Select a note, highlight mark or added text to move, delete or resize. Double click on a note or text to edit the text
⊂⁄ Highlighter	Drag a transparent color over a portion of the document to emphasize the area. Choose "Color" from the Edit menu to select the highlight color. Use the pickup tool to resize and reposition existing highlights
✂ Eraser	Remove information from the document. Highlighter and Stick Note cannot be removed
☐ Sticky Note	Paint a solid color area over the document containing text. If you move this area the text moves with it. Choose "Color" from the Edit menu to set the color of the note
Ⓐ Text	Add text or annotations to the document. Choose "Fonts" from the Edit menu to select a font style and size
+⌐ Cutter	Select an area to cut, copy, or crop to the clipboard

Highlighting
To highlight a portion of the document, perform the following

1 Show the page to which you want to add highlights.

2 Click ⊂⁄ .

3 Choose "Color" from the Edit menu
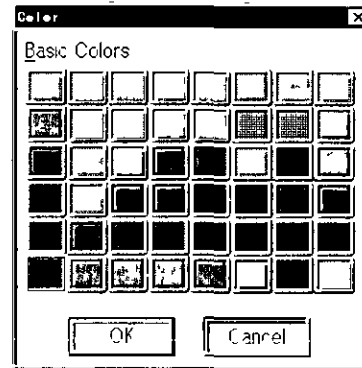
4 Select a highlight color and click OK

5 Move the pointer to the beginning of the document portion you want to highlight

6 Drag the mouse over the area you wish to highlight

To remove the highlight, click the desired highlight by using the Pickup tool and press the Delete key on the keyboard

Erasing
To erase information from a document, perform the following

1 Show the page from which you want to erase information

2 Click ✂ .

3 Drag the mouse over the area you wish to erase

Chapter 4

KX-PS600 Document Desktop (Multi-page, Editing Documents / Making Annotations)

Scanner Function

Sticking Notes

To place a note on a document, perform the following.

1 Show the page on which you want to place a note.

2 Click 〔 □ 〕.

3 Choose "Color" from the Edit menu.

4 Select a highlight color for the note and click ⌈OK⌉.

5 Choose "Fonts" from the Edit menu.
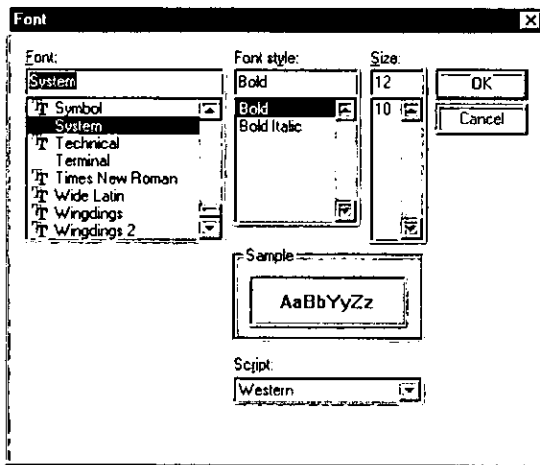
6 Select your desired font, style and size for the text, and click ⌈OK⌉.

7 Click on the document where you wish to place the note and begin typing. You may press the Enter key for multiple lines.

8 When you finish entering text, click 〔 ▶ 〕.

You can resize or move the sticking note by clicking it and dragging as follows:

resizing: Click a black square on the frame with the left mouse button. While holding down the mouse button, drag the black square to your desired location and release the mouse button.

moving: Click anywhere on the note's text with the left mouse button. While holding down the mouse button, drag the note to your desired location and release the mouse button.

Adding Text

To add a piece of text to the document, perform the following.

1 Show the page to which you want to add text.

2 Click 〔 Ⓐ 〕.

3 Choose "Fonts" from the Edit menu.

4 Select your desired font, style and size for the text and click ⌈OK⌉.

5 Click on the document where you wish to add text and begin typing. You may press the Enter key for multiple lines.

6 When you finish entering text, click 〔 ▶ 〕.

Cutting, Copying, and Cropping

You can cut, copy, or crop portions of the image and paste them somewhere else. To cut, copy, or crop, perform the following.

1 Show the page containing information which you wish to place on the clipboard.

2 Click 〔 ⌐□ 〕.

3 Drag your mouse over the area which you wish to place on the clipboard.

4 Choose "Cut", "Copy" or "Crop Image" from the Edit menu, depending on whether you wish to retain the selected area in the current location.

Later you can choose "Paste" from the Edit menu to paste the contents in the clipboard. The pasted area can be moved around by dragging.

Note:
- Every time you cut or copy portions of 300 × 600 dpi image, the warning message appears on screen. If you do not want this to appear again, check "Do not show this message" option. This message will not appear until Document Desktop window is closed and opened again.

Importing/Exporting Documents

Supported file types are: prx, bmp, tif, pcx, gif, jpg.

To import a file, perform the following.

1 Choose "Import" from the Document menu.

2 Select the file you wish to add to the KX-PS600 Document Desktop workspace from the Import Image File dialog box.

3 Click ⎡OK⎤.

The KX-PS600 Document Desktop creates a new document named "untitled-x" (where x is the next available document number) containing the information from the selected file.

To save a document as a file, perform the following.

1 Choose "Export" from the Document menu.

2 In the Export Image File dialog box, assign a file format and destination for the file.

3 Click ⎡OK⎤.

Note:
- If a document scanned at the resolution of 300 × 600 dpi is exported with a file-type other than prx and imported directly into other application, the vertical side of the document may become twice as long as the actual size of the document.

Importing WinFax Document

To import a document from the WinFax (☞ P. 60) application, perform the following. This function is not activated in Windows 95.

1 Choose "Import Fax..." from the Document menu.

2 Select a document from the WinFax fax list in the Import Fax dialog box.

3 Click ⎡OK⎤.

The KX-PS600 Document Desktop creates a new document.

Scanner Function

Working with Linked Programs

The KX-PS600 Document Desktop allows you to print, fax, and send documents to other applications without leaving the program. The KX-PS600 Document Desktop automatically creates links to programs already installed in your computer. Icons for linked programs appear in the Linked Application Tray in the Control Center. These are the applications the KX-PS600 Document Desktop links automatically.

Linked Application Tray
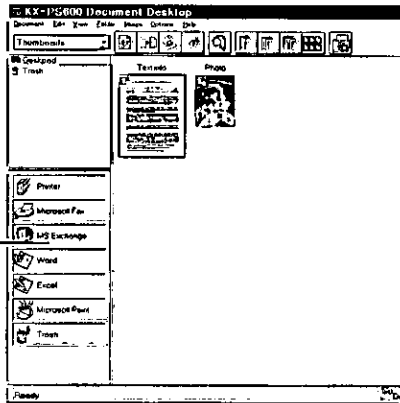
- WordPerfect (5.2, 6.0)
- Microsoft Word (6.0, 7.0)
- AmiPro (3.0)
- Write *1
- WordPad *2
- NotePad *3
- WinFax Pro (4.0, 7.0)
- At Work Fax *4
- Eclipse Fax (6.0)
- SmartComFax (1.0)
- FaxWorks (3.0)
- Mail *5
- Microsoft Excel (4.0, 5.0, 7.0)
- Paint *6
- Microsoft Fax *7
- Paintbrush *8
- cc:Mail (2.0)
- Exchange *9

Notes:
- *1, *3 and *8 are included in Windows 3.1 software as standard.
- *1, *3, *4, *5, *7 and *8 are included in Windows for Workgroups 3.11 software as standard.
- *2, *3, *6, *7 and *9 are included in Windows 95 software as standard.

Sending a Document to a Linked Program
There are three ways to send a document to a linked program:

- Select the document and click the program icon in the Linked Application Tray.
- Drag the document to the program icon in the Linked Application Tray.
- Select the document and choose "Send to" from the Document menu. Then choose the linked program to which you want to send the document.

Note:
- If a document scanned at 300 × 600 dpi is sent to an application like a paintbrush, the vertical side of the document may become twice as long as the actual size of the document depending on the application.

Adding a Link
To create new links for other type of software such as image editing, perform the following.

1 Choose "Applications" from the Options menu.
The Application Link dialog box will be displayed.
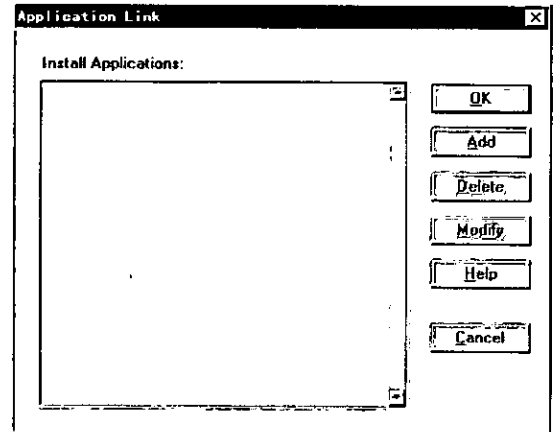
2 Click [Add].
The Add Application dialog box will be displayed.

60
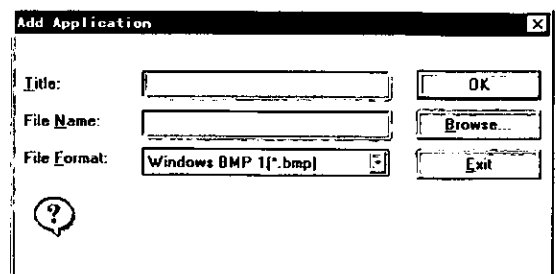
3 Enter a title for the program in the title text box and a complete path of the program's file name in the File Name text box. (If you do not know the path or name, click [Browse] to select a program.)

4 Select a file format that the linked program can recognize from File Format drop down list.

> **Notes:**
> * If a proper file format is not selected, link will not work. Refer to the manual of the application to confirm the file format.
> * Some applications may not be recognized by your KX-PS600 because of a specific file format. In this case, link is not assured.

5 Click [OK] to close the Add Application dialog box and return to the Application Link dialog box.

6 Click [OK] to save the settings and return to the main window.

Modifying an Existing Link

To change the description, icon or execution file name of a linked application, perform the following.

1 Choose "Applications" from the Options menu.

2 Select the application you want to modify and click [Modify].

3 Change the settings of the Modify Application dialog box accordingly and click [OK].

4 Click [OK] in the Application Link dialog box to return to the main window.

Deleting a Link

To delete a linked application from the KX-PS600 Document Desktop, perform the following.

1 Choose "Applications" from the Options menu.

2 Select the application you want to delete.

3 Click [Delete].

> **Note:**
> * The KX-PS600 Document Desktop does not delete the program from your computer.

Using OCR

When you drag a scanned text document to a word processing program, the KX-PS600 Document Desktop automatically converts it to editable text using the Optical Character Recognition (OCR), and transfers the editable text to your word processor. Once inside the word processor you can edit and save documents according to that program's procedures. For best results when sending a document to a word processor, make sure you scanned it in the Text mode with the quality setting at 300 × 300 dpi (☞ P. 62). After using OCR if the quality of the text is not optimal, change the density setting (☞ "Scanner Preferences" on page 62) and try again.

> **Note:**
> * The KX-PS600 Document Desktop cannot convert documents sent to word processing programs unless the Text Bridge (OCR) program (☞ P. 23) is already installed in your computer.

Chapter 4   KX-PS600 Document Desktop (Using OCR)

Optimizing the Document Desktop and Destination Panel

The Preferences command under the Options menu of the Document Desktop (☞ P. 50) and under the Manager button on the Destination Panel (☞ P. 47) allows you to set various application or device options installed in your computer. This section explains the Preferences dialog box in detail to help you choose the best settings for your work.

To display the Preferences dialog box, choose "Preferences" from the Options menu or click [icon] on the toolbar of the Document Desktop, or click "Preference" from the Manager button ([icon]) on the Destination Panel.

Scanner Preferences
Click the Scanner icon under categories.
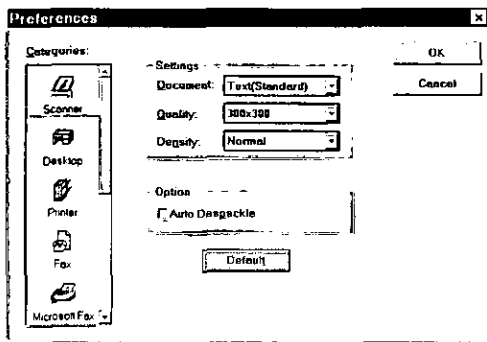
- **Document**   **Text:** Scanning a text and/or black-and-white graphics document in the Text mode produces the optimal quality output (When performing OCR, you must use this mode).
  Photo: Scanning an image document in the Photo mode produces the optimal quality image output.
  Text & Photo: Scanning a document with text and/or black-and-white graphics, and image in the Text and Photo mode produces the optimal quality output.
  However, your system's memory will be utilized thereby reducing its capacity.

- **Quality**   The finer image will be produced by selecting 300 × 600. But it takes longer to process and requires more disk space.

- **Default**   Returns you to the default settings; Document: Text, Quality: 300 × 300, Density: Normal

- **Density**   Allows you to adjust the brightness of the image. If the scanned image is too dark, select Light or Lighter. If the scanned image is too light, select Dark or Darker.

- **Auto Despeckle**   Click on the check box to automatically remove black dots appearing at the border of the page scanned in the Text mode.

Desktop Preferences
In the Preferences dialog box, click the Desktop icon under categories.
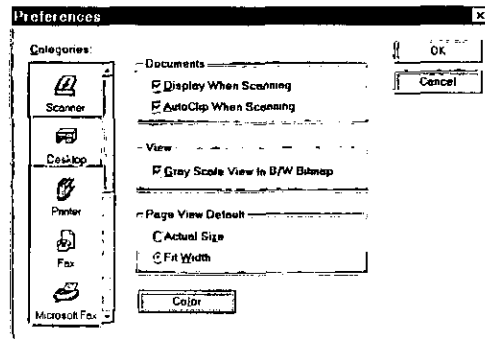
- **Display When Scanning**   Click on the check box to display the scanning dialog box when scanning documents.

- **Auto Clip When Scanning**   Click on the check box to automatically combine multi-page documents when scanned.

- **Gray Scale View**   Click on the check box to view black and white documents as grayscale documents. This command enhances the displayed image quality in every scan mode.

- **Actual Size**   Select this option to display the document in its actual size when changing view mode to the Page mode.

- **Fit Width**   Select this option to display the document in the workspace when changing view mode to the Page mode.

- **Color**   Press this button to show the dialog box in which the color of workspace is selected.

Printer Preferences

In the Preferences dialog box, click the Printer icon under categories
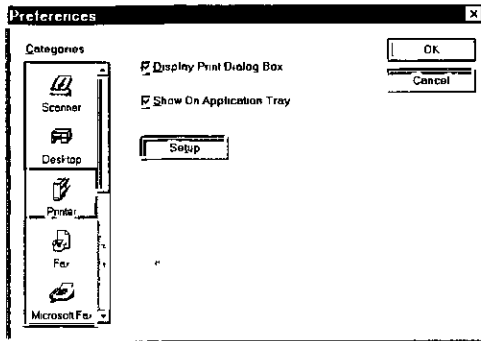
* **Display Print Dialog Box**   Click on the check box to display the print dialog box when printing

* **Show On Application Tray**   Click on the check box to show the Printer icon in the Linked Application Tray

* **Setup**   Click to open the standard Windows Print Setup dialog box

Fax Preferences (Link Manually)

In the Preferences dialog box, click the Fax icon under categories This Fax Preferences dialog box links the Fax program which cannot link automatically (☞ P 60)
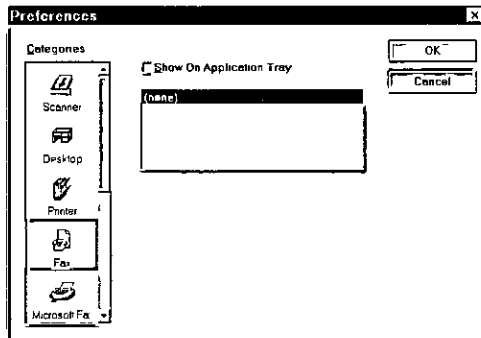
* **Show On Application Tray**   Click on the check box to show the Fax icon in the Linked Application Tray

* **List box**   Select the fax installed in your system from the list box

Fax Preferences (Link Automatically)

In the Preferences dialog box, click the Fax icon under categories This Fax Preferences dialog box appears only when the installed Fax program can be linked automatically (☞ P 60) The design of the Fax icon varies depending on the program
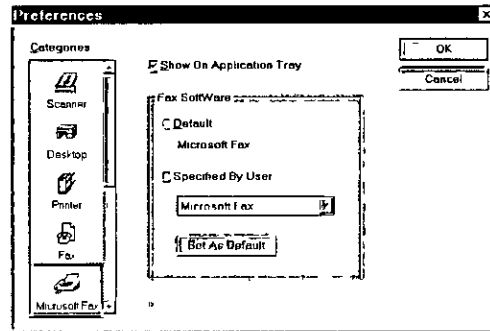
* **Show On Application Tray**   Click on the check box to show the Fax icon in the Linked Application Tray

* **Fax Software**   Select the Fax program from the programs installed on your PC by clicking "Specified by User" and you can set the program as a default program by clicking the Set As Default button

E-Mail Preferences

In the Preferences dialog box, click the E-Mail icon under categories
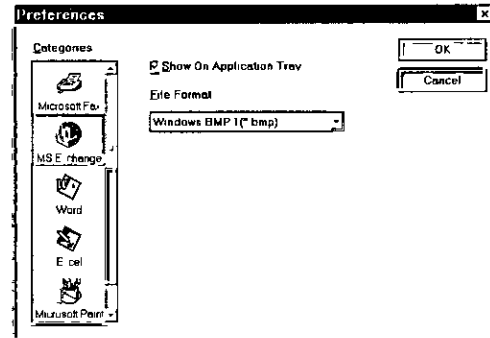
* **Show On Application Tray**   Click on the check box to show the E-Mail icon in the Linked Application Tray

* **File Format**   List the file format to use when attaching a document to an E-Mail message

Word Processor OCR Preferences

In the Preferences dialog box, click the Word Processor OCR icon under categories. The design of the Word Processor OCR icon varies depending on the program installed in your system.
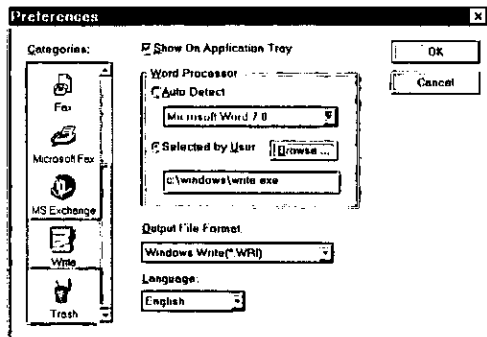
- **Show on Application Tray** — Click on the check box to show the Word Processor OCR icon in the Linked Application Tray.

- **Word Processor** — Select the Word Processor installed in your system that you wish to launch after recognition.

- **Output File Format** — List the file format to use when attaching a recognized document to a Word Processor.

- **Language** — Select the language of the document to be recognized.

Paintbrush (Paint) Preferences

In the Preferences dialog box, click the Paintbrush (Paint) icon under categories.
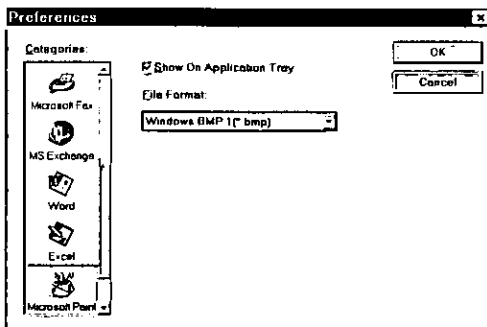
- **Show On Application Tray** — Click on the check box to show the Paintbrush (Paint) icon in the Linked Application Tray.

- **File Format** — The file format selected from the File Format list will be sent to Paintbrush (Paint).

Trash Preferences

In the Preferences dialog box, click the Trash icon under categories.
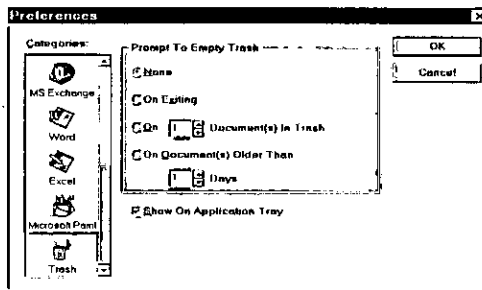
- **None** — Click on the check box not to delete documents in trash automatically.

- **On Exiting** — Click on the check box to automatically delete all documents in the Trash when you quit the KX-PS600 Document Desktop.

- **On # Documents In Trash** — Click on the check box to automatically delete the documents in Trash when it reaches a specific number of documents.

- **On Documents Older Than # Days** — Click on the check box to automatically delete documents in Trash that are older than a specified number of days.

- **Show On Application Tray** — Click on the check box to show the Trash icon in the Linked Application Tray.

Local Copy Preferences

The settings of "Local Copy" can only be changed when "Preference" is selected through Manager button on the Destination Panel (☞ P. 47).
In the Preference dialog box, click the Local Copy icon under categories.
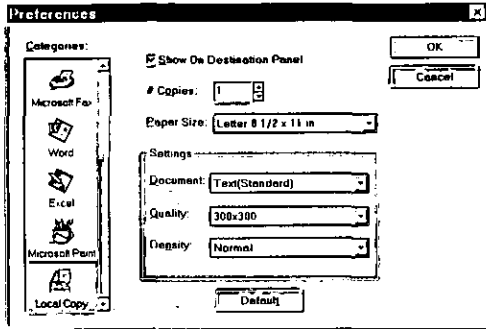
• **Show On Destination Panel** — Click on the check box to show Local Copy icon on the Destination Panel.

• **# Copies** — Set the number of copies.

• **Paper Size** — Select the paper size of the document.

• **Document** — **Text:** Scanning a text and/or black-and-white graphics document in the Text mode produces the optimal quality output.
Photo: Scanning an image document in the Photo mode produces the optimal quality image output.
Text & Photo: Scanning a document with text and/or black-and-white graphics, and image in the Text and Photo mode produces the optimal quality output.

• **Quality** — The finer copied document will be produced by selecting 300 × 600.

• **Density** — Allows you to adjust the brightness of the copied document. If the copied document is too dark, select Light or Lighter. If the copied document is too light, select Dark or Darker.

Note:
• When you try to scan a document at 300 × 600 dpi, more than one copy or attempt to scan to a legal size, the copying process slows down (☞ P. 47).

TWAIN Program

Scanning an Image From Within an Application

Using a TWAIN-compliant application, you can access KX-PS600, scan an image and transfer it to your document.

The steps below assume that you have attached your KX-PS600 to the PC and successfully installed the TWAIN program (☞ P. 23).

Notes:
• Close "KX-PS600 Scanner Detector" when using the TWAIN program because the "KX-PS600 Document Desktop" operation has priority over the TWAIN program.
• The operation of selecting the TWAIN program vary depending on the application. Refer to the application's manual for specific instructions.

1 Run Windows 3.1 or above.

2 Run a TWAIN-compliant application (such as Adobe Photoshop). Refer to the Application's manual for specific instructions on using the Application.

3 Choose "Select Source" under the File menu.

The Select Source dialog box will be displayed. This step may vary depending on the TWAIN-compliant application you are using.
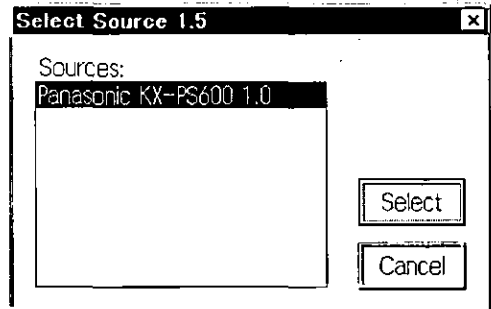
4 Choose "KX-PS600" and click [Select].

Chapter 4

Document Desktop and Destination Panel (Optimizing) / TWAIN Program

Scanner Function

5 Choose "Acquire" under the File menu.

The KX-PS600 Scanner Options window will be displayed. This step may vary depending on the TWAIN-compliant application you are using.

```
┌─────────────────────────────────────────────────┐
│ Panasonic KX-PS600 Scanner Options          [x] │
├─────────────────────────────────────────────────┤
│  Document :   ┌──────────────┐    ┌──────────┐  │
│               │ Text(Standard) ▼│    │    OK    │  │
│               └──────────────┘    └──────────┘  │
│                                   ┌──────────┐  │
│  Quality :    ┌──────────────┐    │  Cancel  │  │
│               │ 300x300      ▼│    └──────────┘  │
│               └──────────────┘    ┌──────────┐  │
│                                   │ Default  │  │
│  Density :    ┌──────────────┐    └──────────┘  │
│               │ Normal       ▼│                 │
│               └──────────────┘                 │
└─────────────────────────────────────────────────┘
```

• Document   Text: Scanning a text and/or black-and-white graphics document in the Text mode produces the optimal quality output.
Photo: Scanning an image document in the Photo mode produces the optimal quality image output.
Text & Photo: Scanning a document with text and/or black-and-white graphics, and image in the Text and Photo mode produces the optimal quality output.

However, your system's memory will be utilized thereby reducing its capacity.

Note:
• Make sure that "Text" is selected with the bundled TextBridge software.

• Quality Allows you to select 200 × 200 or 300 × 300.
Select 200 × 200 if you are using a fax software.

Note:
• Twain driver cannot be used at 300 × 600 dpi.

• Density Allows you to adjust the brightness of the image. If the scanned image is too dark, select Light or Lighter. If the scanned image is too light, select Dark or Darker.

• Default Returns you to the default settings; Document: Text, Quality: 300 × 300, Density: Normal

6 Insert the document you want to scan into the document feeder tray with the printed side facing up.

7 Click [OK] and the KX-PS600 starts scanning.

• Clicking [Stop Scan] anytime during scanning will stop the scanning process.

At this point, you can edit or save the scanned image using the application's commands.

TextBridge Software

Installing the TextBridge Software

Installing TextBridge software is a two-phase process. First, you install the software files. Second, you run a scanner setup program to link TextBridge to your scanner's system-level or TWAIN source driver.

Installing the Software

To install the TextBridge software, insert the TextBridge disk 1 into disk drive A and perform the following procedure.

■ *For Windows 3.1 or*
  Windows for Workgroups 3.11 users:

1 From the Program Manager, click "File". Then click "Run...".

2 Type A:\SETUP.

3 Click [OK]. Go to step 4.

■ *For Windows 95 users:*

1 Click [Start], move the pointer to "Settings", then to "Control Panel".

2 Double click the Add/Remove Programs icon, then click [Install...].

3 Click [Next>], then click [Finish].

4 Click [Continue].

A dialog now displays the TextBridge installation directory on your hard disk. The default is:
C:\TXBRIDGE

5 Click [Continue].

A dialog appears enabling you to choose the OCR language packs you want to install.

6 Click on the checkbox for each language pack to be installed.

You must select at least one language pack in order for TextBridge to perform OCR.

7 Click [Continue].

The Setup program begins installing the TextBridge software files.

8 Follow the instructions on the screen to install the TextBridge files from TextBridge disks 2 and 3.

When the setup program has installed all necessary files from the installation disks, it displays a dialog informing you so.

9 Click [OK].

The setup program automatically creates the TextBridge OCR program group (TextBridge, Scanner Setup, Release Notes) and opens it on your screen.

Chapter 4

TWAIN Program / TextBridge Software

Scanner Function

Linking TextBridge to TWAIN Source Driver

To use TextBridge with KX-PS600, run the Scanner Setup program. Scanner Setup links TextBridge to your KX-PS600 TWAIN source driver.

To link the TextBridge to your KX-PS600 TWAIN source driver, perform the following.

■ *For Windows 3.1 or Windows for Workgroups 3.11 users:*

1 In the TextBridge OCR program group, double click the *Scanner Setup* icon.
Go to step 2.

■ *For Windows 95 users:*

1 In the TextBridge OCR folder, click "Scanner Setup".

---

2 Choose "Select Source" from the File menu.

The Select Source dialog will be displayed.

```
┌──────────────────────────────────┐
│ Select Source 1.5            [x]  │
├──────────────────────────────────┤
│ Sources:                         │
│ Panasonic KX-PS600 1.0           │
│                                  │
│                                  │
│                  ┌──────────┐    │
│                  │  Select  │    │
│                  └──────────┘    │
│                  ┌──────────┐    │
│                  │  Cancel  │    │
│                  └──────────┘    │
└──────────────────────────────────┘
```
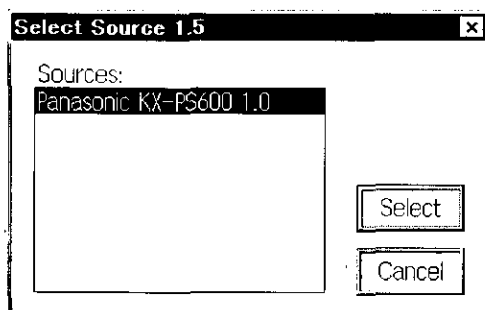
3 Highlight the Panasonic KX-PS600 source driver.

4 Click [Select] to complete the selection.

5 Choose "Exit" from the File menu.

You are now ready to use TextBridge with your KX-PS600.

Removing the TextBridge Software

If you need to remove the TextBridge software, perform the following.

■ *For Windows 3.1 or Windows for Workgroups 3.11 users:*

1 From the Program Manager click the *TextBridge OCR* icon.

2 Choose "Delete" from the File menu.

A message asks you: Are you sure you want to delete the group 'TextBridge OCR'?

3 Click [Yes].

4 From the File Manager, click on the txbridge directory.

5 Choose "Delete" from the File menu of the File Manager.

The Delete dialog will be displayed with the full pathname of the txbridge directory highlighted.

6 Click [OK].

7 Click [Yes to All].

8 Click [Yes to All].

9 From the File Manager double click the Windows directory.

This displays the list of files in the directory.

10 Scroll to display the following files:

txbridge ini

11 Delete each file by clicking on it, pulling down the File Manager File menu and clicking "Delete".

This displays a Delete dialog box

12 For each file, click [OK] in the dialog box

13 Click [Yes] at the Confirm File Delete dialog box

The files are deleted

■ *For Windows 95 users:*

1 Click "Taskbar " from Settings.

This displays Taskbar Properties dialog

2 Click the Start Menu Programs Tab, then click [Remove...]

3 Select the TextBridge OCR folder and click [Remove].

4 Click [Yes] at the Confirm Folder Delete dialog, then close the Remove Shortcuts/Folders dialog.

5 Click [OK]

6 From the Windows Explorer, select the TextBridge folder and press the Delete key on the keyboard.

7 Click [Yes] at the Confirm Folder Delete dialog

8 Click [Yes to All] at the Confirm File Delete dialog.

9 From Windows folder, select the Txbridge.ini and press the delete key on the keyboard.

10 Click [Yes] at the Confirm File Delete dialog.

Chapter 4   TextBridge Software

Making Copies

Any acceptable documents (☞ P. 46) can be copied. There are three methods:

- **Using the Local Copy button on the Destination Panel** (☞ P. 47)
  Allows you to change the COPY settings; kind of document, quality, density, paper size and number of copies.
- **Using the Scan to PC and Printer button on the Destination Panel** (☞ P. 47)
  Allows you to change the print and scan settings.
- **Pressing the COPY button on the unit (Stand Alone Copier Function)**
  Allows you to make only single copies with unchangeable settings; Letter size paper, Text(Standard) or Text&Photo document, 300 × 300 dpi quality, Normal density.

1 ❶ **Open the output tray (top cover).**
❷ **Extend the paper output support by sliding it upward.**
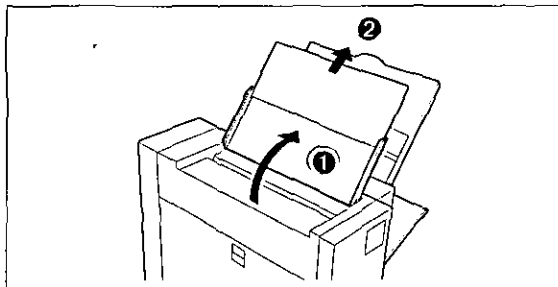
2 ❶ **Lift the document output tray.**
❷ **Insert the paper all the way down into the paper tray.**
❸ **Adjust the paper guides to your paper size.**

For detailed information on how to load the paper, refer to steps 2 and 3 on page 17.

The height of paper should not exceed the limit mark on the paper guide, or it may cause a paper jam.

Limit mark
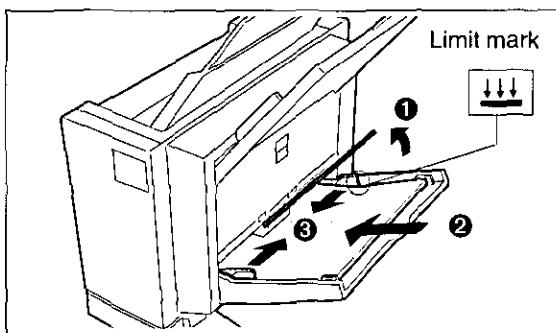
3 **Extend the document feeder support by holding its top edge and sliding it upward.**
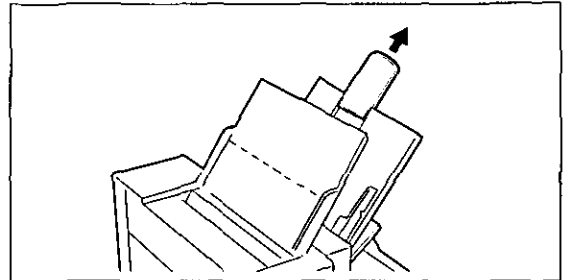
4 ❶ **Insert the documents in the document feeder tray with the printed sides facing up.**
❷ **Adjust the document guides to the width of the documents.**

- A maximum of 20 sheets of 75 g/m² (20 lbs.) can be inserted at a time in the document feeder tray.
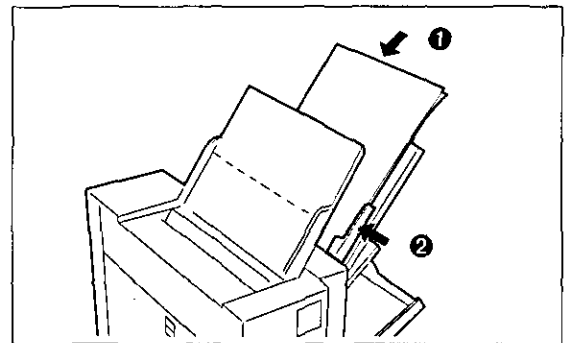
- If the documents start scanning automatically, this indicates that the "Enable Auto Scanning" selection has been enabled. Disable this selection (☞ "Manager Button" on page 49) and reinsert the document in the document feeder tray.

Notes:
- If you want to copy legal size paper, an optional RAM expansion board needs to be installed (☞ P. 83).
- You can copy by pressing the COPY button even if the PC Scanning window will be displayed.

5 **Press the COPY button.**

- If you press the COPY button for less than 2 seconds, your document will be copied in the Text(Standard) mode If you press it for more than 2 seconds, your document will be copied in the Text & Photo mode
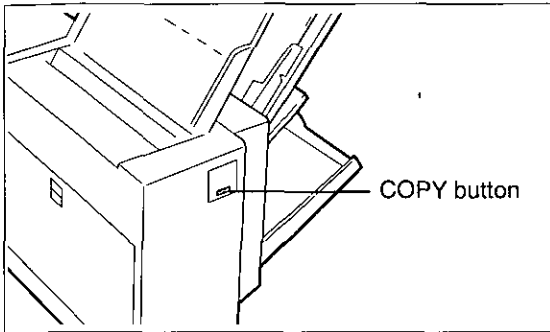
COPY button

Notes.
- To interupt making-copies, press the COPY button again
- A thin stripe may be printed on the edge of paper because of the document's shadow

Chapter 6 *Care and Maintenance*

Cleaning the Unit

Periodic cleaning of the unit is recommended. The frequency of cleaning is dependent upon the environment in which the unit is used. You should clean the unit:

- at least once a month.
- when you install a new Process Unit.
- when the scan quality has deteriorated. See steps 1 and 5~7 of "Internal".
- when the print quality has deteriorated. See steps 1~4 of "Internal".

External

1 Turn the power OFF.

2 Clean the cover with a soft cloth.
Use any mild commercial cleaner.

Caution:
- Do not use benzine, thinner, aerosol cleaners, or any abrasive powder to clean the cabinet.

Internal

1 Turn the power OFF.

2 Open the left cover and remove the Process Unit by grasping the green labeled tabs.
Before cleaning the inside of the printer, allow the fuser to cool (about 5 minutes).

Fuser
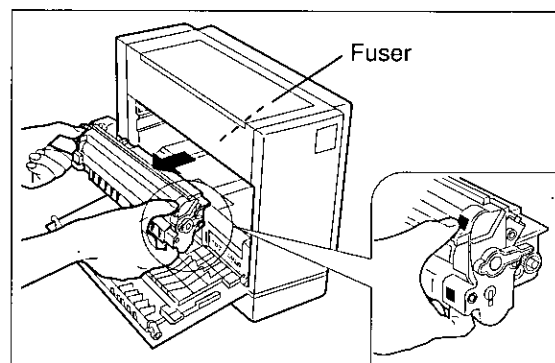
Cautions:
- The unit must be turned OFF prior to cleaning.
- Do not expose the Process Unit to direct sunlight or artificial light for more than 5 minutes.
- Do not touch the green drum surface of the Process Unit.

3 Clean the following areas (paper path) with a dry cloth or a cotton swab.

With a dry cloth
• Pinch roller
• Feed roller
• Transfer roller
• Paper chute (Paper dust)

With a cotton swab
• Carefully wipe the tungsten wire and the laser unit mirror by sliding a cotton swab from end to end 4 to 5 times.

Laser unit mirror

Cotton swab

Pinch roller

Feed roller

Transfer roller (Transfer unit)

Tungsten wire (Transfer unit)

Paper chute

Cotton swab

Tungsten wire
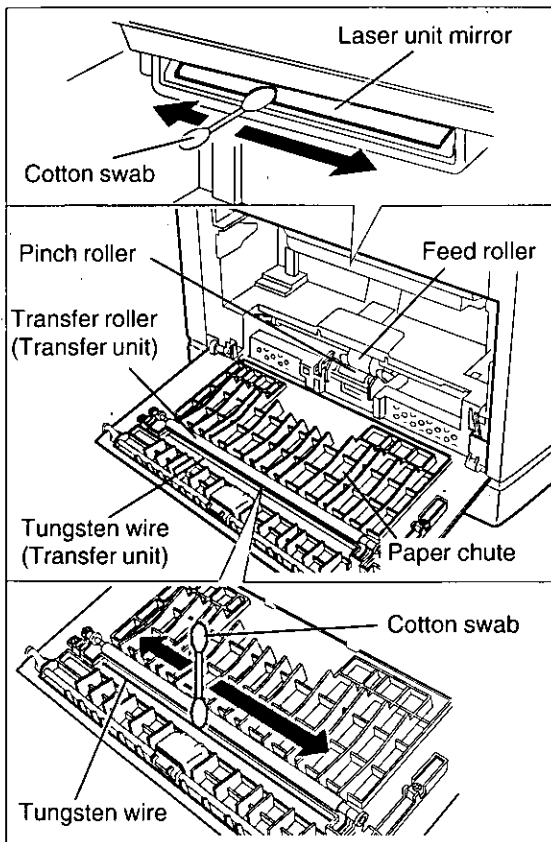
4 Close the left cover.

5 ❶ Close the paper output support and the output tray (top cover).
❷ Remove the document feeder tray by slightly raising and pulling it out of the printer.
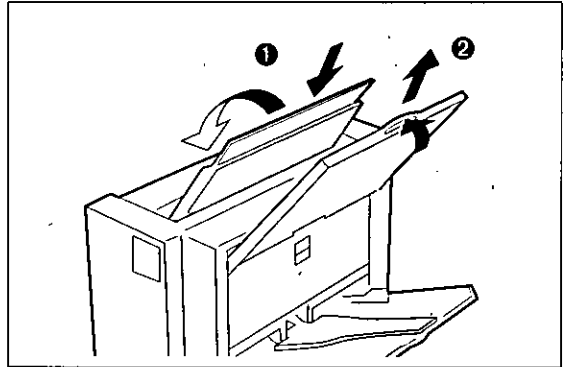
6 ❶ Open the scanner door.
❷ Clean the glass with a dry soft cloth.
❸ Clean the following areas with cloth moistened with isopropyl rubbing alcohol.

• White plate
• Pinch rollers
• Feed rollers
• Pickup roller
• Pad

Pickup roller

White plate

Feed rollers

Glass

Pad

Pinch rollers
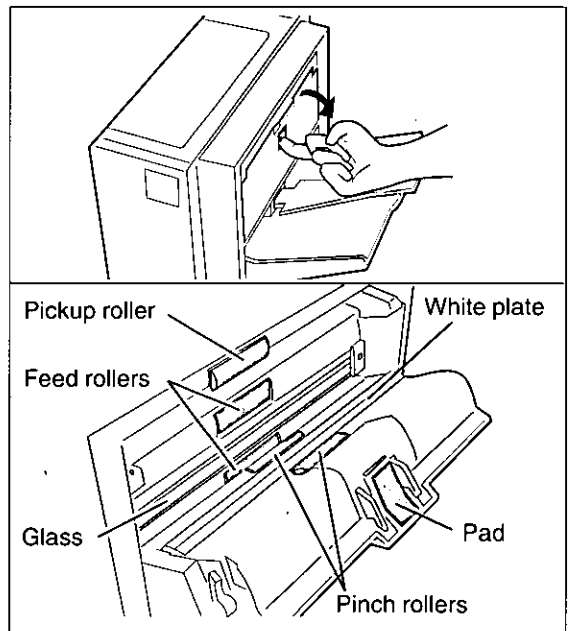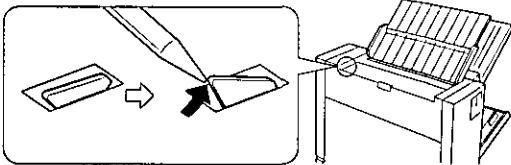
7 Close the scanner door.

Troubleshooting

Many problems associated with the unit can be traced to improper setup or cabling. The following table will assist you in identifying and correcting some of the more common problems.

Trouble	Possible Cause	Corrective Action
LED not blinking	No AC power	Check power cord.
Power on but unit not printing data	Interface cable not connected	Check interface cable.
	The interface cable is connected to PC via printer buffer or selector	Disconnect the printer buffer.
Dark stripes or stains on paper	Dirty paper path	Clean paper path (☞ P. 73).
Vertical line on paper	Dirty paper path	Clean paper path (☞ P. 73).
	Dirty tungsten wire	Clean tungsten wire (☞ P. 73).
	Dirty laser unit mirror	Clean the laser unit mirror (☞ P. 73).
	Scratch on drum	Replace Process Unit.
	Scratch on fuser roller	Replace fuser. The unit requires service by an Authorized Panasonic Service Center.
Very faint print	Toner may be empty	Shake the Process Unit or refill the toner in the Process Unit (☞ P. 83).
	Print density not adjusted	Select the proper print density (☞ P. 34).
	Transfer unit (☞ P. 73) is defective	Replace the transfer unit. The unit requires service by an Authorized Panasonic Service Center.
Horizontal faint grey stripe(s) appear on the printout	The Process Unit was exposed to artificial light, or direct sunlight for more than 5 minutes	These stripes will automatically disappear after a few hours.
Paper jams occur continually	The paper size selected through the GDI Mode or PCL Mode and software application are different from the installed paper size	Select the correct paper size through the GDI Mode (☞ P. 36) or PCL Mode (☞ P. 43) and application.
After removing the jammed paper, the ERROR indicator still blinks	Paper fragment(s) remains in the unit	Move the sensor lever to the upright position by using an object like a ball point pen. The remaining fragment(s) will be ejected.
Ejected paper is caught between the paper output support and the output tray	There is a space between the output tray and the paper output support	Slide the paper output support down, then extend it again to remove the space (☞ Step 1 on page 17).
Paper jam has occured	Follow the instructions displayed on the screen. If stains appear on the back of the printed paper after a paper jam is cleared, it is recommended that you run several test prints.	

Trouble	Possible Cause	Corrective Action
Printout is skewed	Paper tray is not installed properly	Install the paper tray correctly (☞ P 15)
	Paper guides are not adjusted properly	Adjust the paper guides correctly (☞ P 17)
	Document feeder tray is not installed properly	Install the document feeder tray correctly (☞ P 15)
	Document guides are not adjusted properly	Adjust the document guides correctly (☞ P. 48)
Printout is ragged	Replace the screen fonts with TrueType fonts because screen fonts may be selected To show only TrueType fonts in applications, follow the procedure below **For Windows 3 1/Windows for Workgroups 3 11** 1 Double click the *Main* icon in the Program Manager 2 Double click the *Control Panel* icon 3. Double click the *Fonts* icon 4. Click TrueType 5 Select "Show Only TrueType Fonts in Applications", and click OK to exit-the-TrueType dialog box 6. Click Close	**For Windows 95** 1. Double click the *My Computer* icon 2 Double click the *Control Panel* icon 3. Double click the *Fonts* icon 4. Click Options in the View menu 5. Select "TrueType Tab" 6. Select "**Show only TrueType fonts in the programs on my computer**", and click OK 7 Click YES to restart Windows
Dirty pattern, black, or white bands appear on a copied document	The paper or document path is dirty	Clean the paper and document paths (☞ "Internal" on pages 72~73)
Scan/Copy quality has deteriorated	The document path is dirty	Clean the document path (☞ steps1 and 5~7 on pages 72~73)
	The document contained texts and images is scanned/copied with Text mode	Scan/Copy the document with Text&Photo mode
Documents misfeed frequently	The document path is dirty	Clean the document path (☞ steps1 and 5~7 on pages 72~73)
The settings chosen through an application are not effective	Close the application, perform the printer settings in the KX-PS600 Console window, and open the application again	
DOS application file cannot be printed	Operation in the background is not effective	Start the DOS application from the MS-DOS prompt of the Windows or follow the instructions on the next page
Printing operation from DOS in Windows 95 cannot be performed	A driver other than KX-PS600 is spooling the data sent from DOS	Select the "Properties" of any driver other than KX-PS600 from the "Printers" of the "Settings" in Windows 95 Then select the "Port Settings" from the "Details" and disable the "Spool MS-DOS print jobs" by clicking off its check box
Scanning operation cannot be performed through PC	Scanner Detector program may be closed	Start the Scanner Detector program from "Panasonic KX-PS600 Tools", open the Destination Panel (☞ P 47), or the KX-PS600 Document Desktop (☞ P 50)
Converting operation through the TextBridge has failed	The document is scanned with 300 × 600 setting	Scan the document after changing the setting to 300 × 300
	The document scanned upside down	Scan the document downward

Chapter 6

Troubleshooting

Care and Maintenance

Trouble	Possible Cause	Corrective Action
Cannnot print to other printer	Scanner Detector is open	Close the Scanner Detector (☞ P. 46) and try again.
Copy operation cannot be performed by pressing the COPY button	Left cover or scanner door is open	Close the left cover and the scanner door.
	Paper jam has occured	Remove the jammed paper after openning the left cover and scanner door, then close both covers.
	The unit may have entered the Power Saving mode (☞ P. 34)	Copy operation will start automatically after warming up.
	The document is not inserted correctly	Insert the document correctly in the document feeder tray (☞ P. 48).
	Process Unit is not installed	Install the Process Unit (☞ P. 14).
Application link does not work	Improper file format is selected for the application	Select a proper file format referring to the application's manual.
Cannot access the KX-PS600 using a TWAIN-compliant application	Scanner Detector program may be active	Close the Scanner Detector program.
	KX-PS600 TWAIN driver is not selected	Select the KX-PS600 TWAIN driver, refer to the application's manual.

■ Printing a DOS application (For Windows 3.1 or Windows for Workgroups 3.11 users):

Check that your DOS icon is tagged "Exclusive". If it is, then you must change it to non "Exclusive". You may check this by following the instructions listed below.

1. Double click the **Main** icon in the Program Manager.
2. Double click the **PIF Editor** icon.
3. Click "**File**" and "**Open**".
4. Select the PIF file name corresponding to DOS application.
   If the DOS application has no PIF, create PIF by performing ⓐ ~ ⓓ :
   ⓐ Double click the **Windows Setup** icon in the "**Main**" group.
   ⓑ Click the "**Options**" menu and "**Set Up Applications**".
   ⓒ Create PIF by following the instructions on the screen.
   ⓓ Perform steps **2~4** above, go to step **5**.
5. Check that "**Exclusive**" is not selected.
6. Select "**Save**" in the "**File**" menu.
7. Exit from the "**PIF Editor**".
8. Perform the print operation.
   If the application cannot be printed, the application window may be spread on full screen.
   Press (**Alt**) + (**Enter**) to reduce the window size, then print.
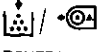
Note for (i80386 CPU) PC users:

• Slower printing may be encountered if using a i386 processor. For test print, it may take about 10 minutes on some PC at 600 dpi, to overcome this please change resolution to 300 dpi. The recommended configuration for faster printing is a i486 running at 50 MHz (or greater), and 8 MB of memory.

Note for Windows 95 users:

• After cancelling a print job in Windows 95, sometimes further printing may not be possible. If this happens, minimize the application you are printing from, return to Program Manager and click "My Computer" icon, click "Printers" icon and click the "Panasonic Printer" icon for the printer you are using. You will find the cancelled printer file. Please click "Purge Print Job" in "Printer" of menu bar on Windows 95. This cancelled file will print.

Error Indication

Indicators			Possible Cause	Recovery
ᄂ ERROR	**◯** READY	**⟦⟧/ ·⊙⌐** TONER/ PROCESS UNIT		
`⚡` blinking	□	□	Output tray (top cover) is not open	Open the output tray (top cover)
			Paper jam has occurred	Remove the jammed paper, then open the left cover and close it
			Paper tray is empty	Load paper in the paper tray and press the COPY button (<2 seconds)
			Left cover is open	Close the left cover
			RAM overflow or overrun has occured	Press the COPY button (<2 seconds) If the error continues, see *4 below
			Document top sensor does not sense after start document feed	Open the scanner door, remove the jammed document and close the door Then reinstall the document
			Document top sensor keeps active after feed maximum page length (640 mm)	Open the scanner door and remove the jammed document Then close the door
			Scanner door is open	Close the scanner door Remove the document if it is in the unit
			Memory full occurs when making a local copy	Press the COPY button (<2 seconds) Then try again making the local copy by clicking the Destination Panel button with the following settings, Document Text, Quality 300 × 300 and # Copies 1 If you can make a copy, see +4 below If the error continues, service by an Authorized Panasonic Service Center is required
			Overrun occured during local copy	
◯	□	`⚡` slow blink	Toner may be empty	Refill the toner or shake the Process Unit (☞ P 83)
□	□	■ *1	Toner may be empty and the life cycle of the Process Unit has expired	Install a new Process Unit when the toner supply is depleted
□	□	`⚡`■ *2	The life cycle of the Process Unit has expired	
`⚡`■	□	■	Process Unit is not installed	Install the Process Unit (☞ P 14)
■	*3 □	□	Internal errors	If the ERROR indicator is lit, turn the power off for a few seconds then on again If the error continues, service by an Authorized Panasonic Service Center is required

■ on   `⚡` blinking (fast – with an interval of about 1 second)

□ off   `⚡` blinking (slow – with an interval of about 2 5 seconds)

*1 You still can refill the toner, but it is recommended that you replace the Process Unit as soon as possible to maintain maximum print quality

*2 You can print additional pages until the toner supply is depleted, but it is recommended that you replace the Process Unit as soon as possible to maintain maximum print quality

*3 Varies depending on the condition

*4 It is recommended that you install an optional RAM expansion board (☞ P 83)

Care and Maintenance

Error Messages

■ Memory:

> *System is low on memory. Please quit one or more applications to increase available memory. Not enough memory available.*

These messages indicate that your PC does not have sufficient internal RAM. To remedy the probable cause try executing one of the following operations.

a) Close open applications to increase available memory.
b) If connected to a network, disable network drivers
c) Increase virtual memory (☞ P. 21).

Scanning or image editing may not be able to work properly if the allocated virtual memory is insufficient in Windows. Since it requires a considerable amount of memory to process the image, try increasing your PCs virtual memory to the maximum allowable. If it is still not sufficient you may have to delete some unnecessary files or programs. The recommended virtual memory requirement is 12 MB (if your software and printer requires virtual memory as well then more may be necessary).

d) Restart Windows.

If the application is terminated inadvertently due to a malfunction or unstable condition, there may be a possibility that this procedure will not release the specified allocated memory. In this case, restart Windows.

■ Disk:

> *Disk full. Please delete some unused data and Empty the Trash.*

This message indicates that there is inadequate free disk space to allocate newly scanned images or duplicated thumbnails. Please note that each thumbnail requires considerable amount of disk space and thumbnails in trash also takes up disk space. Empty trash by selecting "Empty Trash" in "Options" menu (☞ P. 50).
If this error continues, then try to delete unnecessary thumbnails. If it is still insufficient, delete unnecessary files by using File Manager (Windows 3.1) or Explorer (Windows 95). First delete the temporary files under \KX-PS600\TEMP directory. Please note that the Desktop sometimes makes temporary files under this directory (refer to next section).

> *Disk problem, cannot save file*

> *Fail to save scanned data*

> *Error at file creation, cannot duplicate page*

Make sure that your system has enough free disk space to allocate newly scanned images or duplicated thumbnails. If this error continues after securing enough free disk space, then check that the KX-PS600 directory is not write protected or physical disk is not damaged.

■ Link:

> **TextBridge recognition failure!**

This error message indicates failure to execute the Xerox TextBridge OCR program. Please make sure that TextBridge is installed correctly, and that the files under TextBridge directory (specified at TextBridge installation) are not corrupted or deleted. If this error continues, reinstall TextBridge by running SETUP.EXE on TextBridge disk 1 of 3 and follow the procedure on the display.

> **Document counter has reached its limit, please clean up your temp files!**

When linking (drag & drop the thumbnail over the application tray) to another application a temporary file is created under the directory "C:\KX-PS600\TEMP". The image data is then transferred to the designated application. Please delete temp files from this directory when you encounter this message, delete files not needed from the desktop.

> **"Application name" execute failure**

This error message appears on the Desktop due to failure to execute the application specified in "Add Application" dialog after using drag & drop thumbnail. Please make sure that the specified application is not deleted, renamed, or moved to another directory.

> **"Canceling. Page too complex for selected mode. Error code: 706"**

This error message indicates failure to execute the Xerox TextBridge OCR program.
A document containing a lot of data cannot be handled by TextBridge completely. Rescan the document at 300 × 300 dpi if it was scanned at 300 × 600 dpi, or with Text if it was scanned with Text & Photo or Photo.

■ Other:

> **"Printer port is not available ! Do you want to wait [Y/N]?"**
> **Printer is busy. Do you want to wait?"**

This message is displayed when attempting to perform an operation such as printing while the unit is carrying out another operation like scanning. Basically two operations cannot be performed at the same time because each operation uses the printer port.
If "Yes" is selected, the operation you are attempting will be performed after the current operation is finished.
If "No" is selected, the operation you are attempting will be canceled.

> **Unable to open Winfax log file**

Desktop can retrieve images from Winfax log file. To do so, select "Import Fax..." from Document menu. When this message appears, make sure that the Winfax is properly installed and that all necessary files under the Winfax install directory are not missing.

Care and Maintenance

■ OCR Linking (Non-Auto Detect Applications)

1. Click **"Preferences"** icon toolbar appearing right below the Menu bar (or click **"Preference"**, from the **"Options"** drop-down menu on the menu bar).

2. Select **"Word"** from the **"Categories"** menu ("**Word**" was automatically detected in this example).

3. Select **"Selected by User"** to enter the directory where your word processor is located.

4. Browse through folders, select the path and file name and click **"OK"**.

5. Click **"Output File Format"** and from the pull-down menu select the file format for the OCR-ed document selected in step 4.

6. Click **"OK"**. This closes the dialog box.

■ How to Save Disk Space

Understanding how the OCR process works with KX-PS600 is important. When a document is dragged into an OCR supported application from the KX-PS600 Document Desktop, the following process occurs:

1. The original document on the KX-PS600 Desktop is not altered in any way.

2. Before the OCR application runs; a conversion is made from the original file on the desktop to the file format supported by your OCR application. This new file is saved in the C:\KX-PS600\TEMP directory. There are two methods to follow so as not to have duplicate files on your hard drive.

Method 1
Rename the file on the KX-PS600 Desktop to a desired name prior to dragging it to the OCR supported application. The file will still be saved in the C:\KX-PS600\TEMP directory, however, when the OCR application opens, it will now use the file name you specified on the KX-PS600 Desktop. This will eliminate the need for you to rename the file from the OCR application; causing the duplication of files.

Method 2
Drag the desired file to the OCR application. When the application opens, save the document with the name you desired and the path. Once the file has been saved, you can then delete the duplicate file from the C:\KX-PS600\TEMP directory.

Repacking Instructions

It is highly recommended that you keep the original carton and <u>ALL</u> packing materials. Should you need to transport or ship your unit, please follow these instructions.

Please Note:
- Should you need to send your unit to a Service Center, consult your dealer first.
- Please use the original carton and all of the original packing material.
- Improper repacking of the unit may result in a service charge to repair the unit or a cleaning charge to remove spilled toner.
- Since the unit uses dry toner, extreme care must be taken when handling. The unit should be handled in the upright (vertical) position.

Material Required:
- Original Unit Carton and Packing Materials
- Original Process Unit Packing Materials
- Newspaper or drop cloth
- Shipping Tape and Scissors

1 Disconnect the power cord and the unit/ computer cable.

2 ❶ Close the paper output support and the output tray (top cover).
❷ Remove the document feeder tray by slightly raising and pulling it out of the unit.
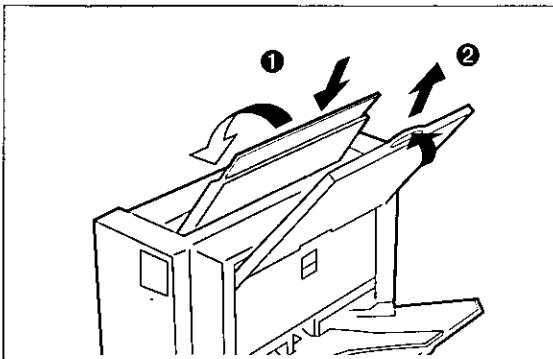
3 Remove the document output tray by twisting and pulling it out of the unit.
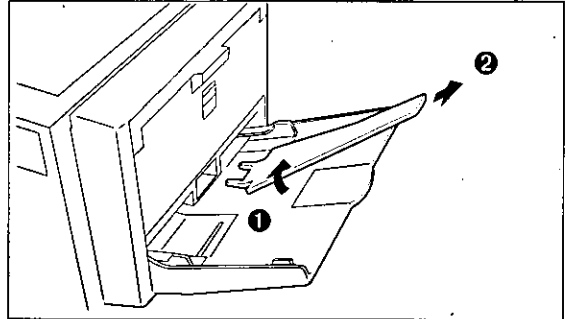
4 Remove the paper tray by slightly raising and pulling it out of the unit.
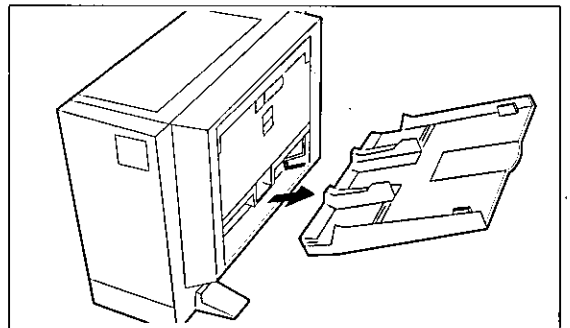
5 Open the left cover.

6 Remove the Process Unit by holding the green labeled tabs and pulling it toward you.
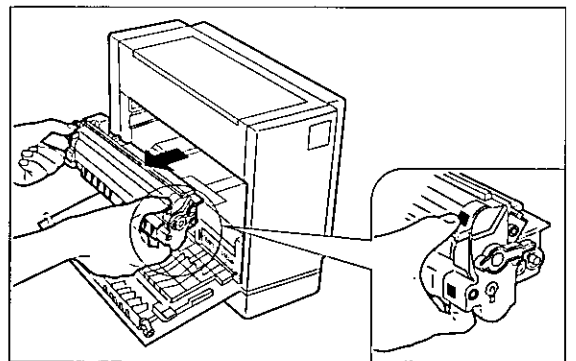
(continued)

7 ❶ Place the protective sheet over the green drum.

❷ Put the Process Unit into the plastic bag and close the bag.
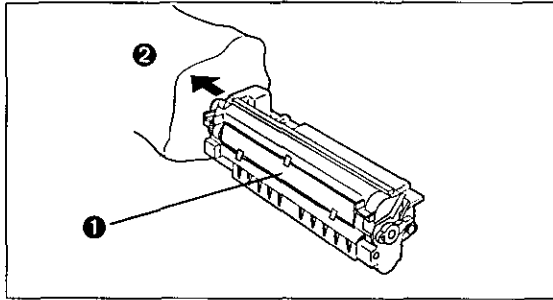
8 Install the Process Unit by holding the green labeled tabs and pushing it into the unit.
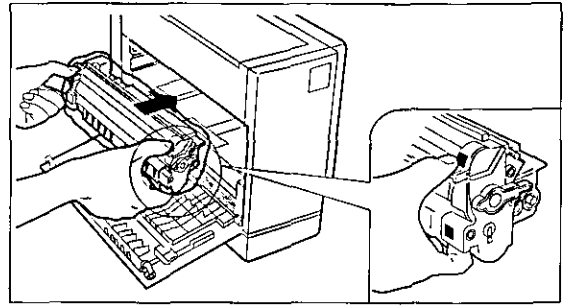
9 Close the left cover.

Repack the unit

Power Cord

Manual

Floppy Disks

Document Output Tray

Paper Tray

Document Feeder Tray

Front

F
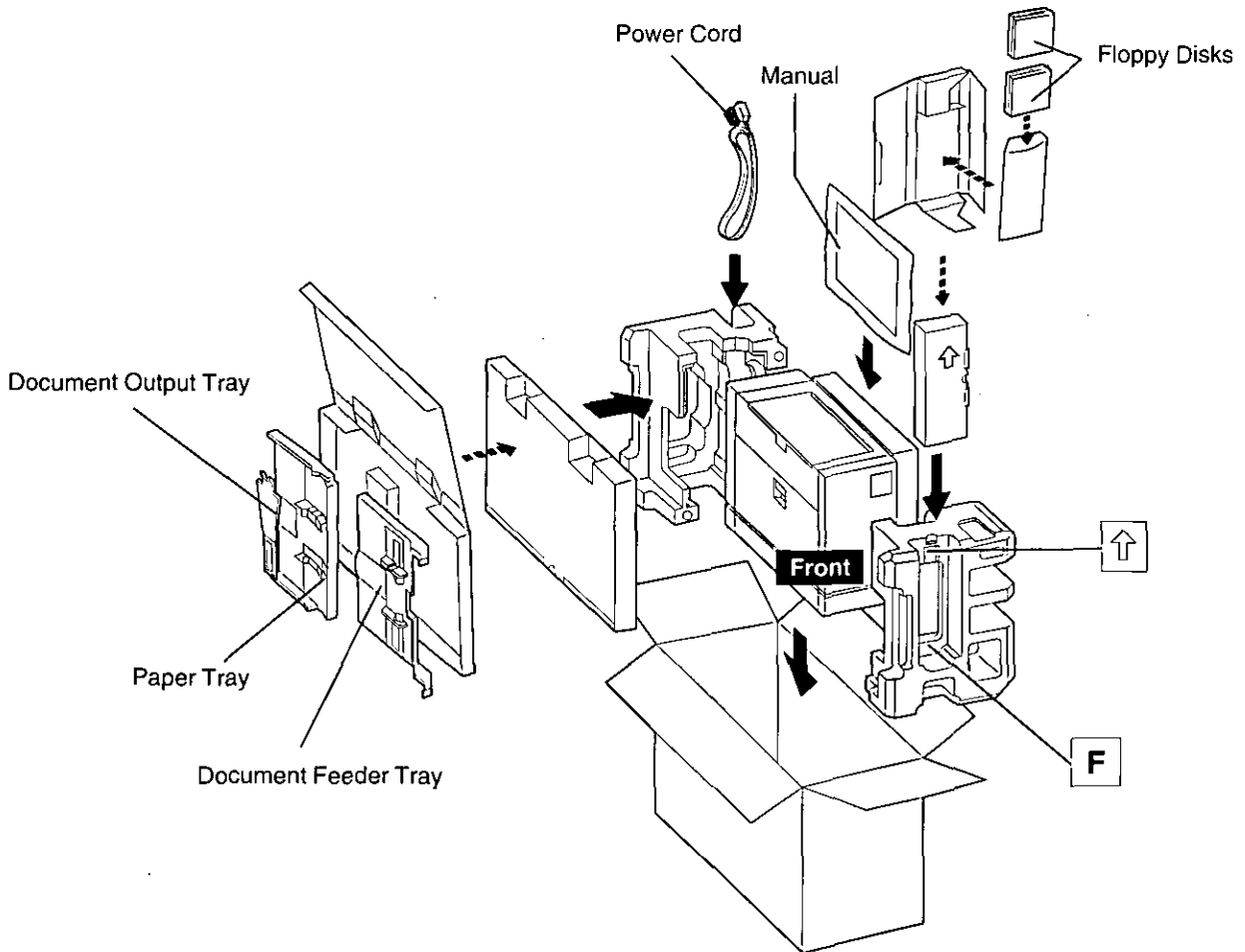
Appendix

Options and Supplies

Please contact your local Panasonic dealer for availability. The following options and supplies include Instructions/Installation Manuals.

Options	
KX-P447	1 MB RAM Expansion Board
KX-P448 or KX-PEM5	2 MB RAM Expansion Board
KX-PEM6	4 MB RAM Expansion Board
Supplies	
KX-PST1	Toner Cartridge — 2,500 page life
KX-PEP4	Process Unit — 15,000 page life

Note:
- Page life is based upon printing 4% image area with repetitive printing of 10 pages.

Installing a RAM Expansion Board

For printing a document: It is recommended to install one of the optional RAM Expansion Boards depending on the quantity of the print data. To print a complicated document such as photo, installing 4 MB Expansion Board is recommended.

For copying documents: It will take longer to copy a number of documents or a document with 300 × 600. It is recommended to install the 4 MB RAM Expansion Board to print faster (☞ P. 47).

Adding Toner

When the print is faint and the toner message is displayed, the toner supply may be almost depleted. However, the unit may print additional pages if you shake the Process Unit a few times. Fill the toner in the Process Unit using toner cartridge KX-PST1. The instructions below are the outline procedure. For detailed instructions, please refer to the KX-PST1 instructions manual.

■ Extending the toner life:

1 Shake the Process Unit.
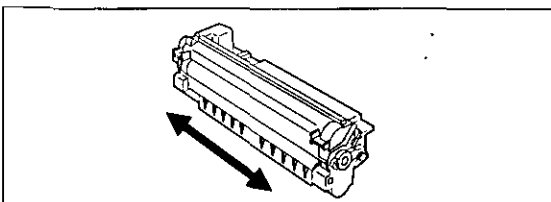
■ Refilling the toner:

1 Turn the power OFF.

2 Open the left cover.

3 Remove the Process Unit by holding the green labeled tabs and pulling it toward you.

4 Place the protective sheet over the green drum.

5 Open the toner cover of the Process Unit.
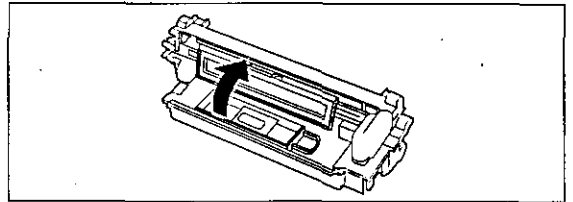
6 Remove the affixed protective sheet from the toner cartridge.

7 Match the arrow on the toner cartridge with the arrow on the Process Unit, place the toner cartridge on the Process Unit. While pressing the toner cartridge down, slide the toner cartridge to the left until it stops.
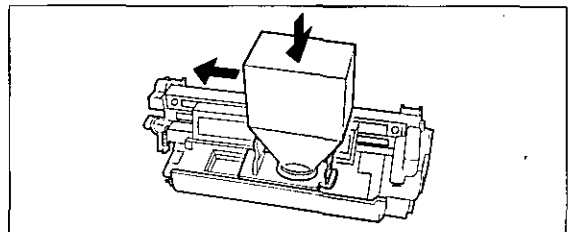
8 Shake the Process Unit, and tap the toner cartridge to allow the toner particles to fall freely into the Process Unit.

9 Remove the toner cartridge by sliding it to the right and lifting.

Cautions:
- Use of toner other than Genuine Panasonic Toner KX-PST1 can damage this process unit and the unit's fuser. THIS WILL VOID THE WARRANTY OF THE UNIT AND PROCESS UNIT.
- Do not expose the Process Unit to direct sunlight or artificial light for more than 5 minutes.

Repacking Instructions

Chapter 6

Appendix

Options and Supplies

Appendix

Specifications

General

Power Source:

Refer to the nameplate on the rear of the unit

RAM Buffer:

512 KB (expandable to a maximum of 1.5 MB with optional 1 MB RAM Board, 2.5 MB with 2 MB RAM Board and 4.5 MB with optional 4 MB RAM Board.)

Operating Environment:

10 to 32.5°C {50 to 90.5°F}
20 to 80% RH

Storage Environment:

0 to 35°C {32 to 95°F}
10 to 80% RH

Dimensions:

191 (W) × 404 (D) × 292 (H) mm {7.5″ × 15.9″ × 11.5″}
422 (W) × 404 (D) × 477 (H) mm {16.6″ × 15.9″ × 18.8″} *2

Mass {Weight}:

Approx. 8.8 kg {19.4 lbs.}

Consumables/Life:

Starter toner *1; 1,000 pages average (4% image area with repetitive printing of 10 pages)
Toner cartridge; 2,500 pages average (4% image area with repetitive printing of 10 pages)
Process unit; 15,000 pages average (4% image area with repetitive printing of 10 pages)
4% image area means that the black area within the printing area is 4%. Printing 8% image area continuously will reduce the life of the toner and of the Process Unit to about half as compared to printing 4% image area.

4% Image area

Power Consumption:

600 W TYPICAL (Printing with Fuser on)
9 W TYPICAL (Power Saving Mode)

Noise Level:

Printing/Copying: 45 dBA
Standby: Background noise level

CPU:

Motorola MC68EC000 (16MHz)

Power Saving Mode:

To conserve energy and reduce operating cost, this unit is provided with a power save feature. If the printer has not received data for 15 minutes, the unit will automatically enter a power saving mode.

*1 This toner is installed in the Process Unit at the factory before shipment of the printer.

*2 The document feeder support is extended and the document out support is opened.

Printer Block

Printing Method:

Semiconductor Laser

Print Speed:

6 pages per minute (ppm) maximum (Letter size paper, text mode, 5% image area, all originals)

Resolution:

600 dots per inch (dpi) [GDI mode] and 300 dpi [PCL mode]

Paper Feed:

1 Multi-purpose tray up to 100 sheets [75 g/m² (20 lbs.)]

Paper Output:

Up to 50 sheets

Software Emulation *3 :

HP LaserJet Series IIP

Fonts:

GDI mode:
(TrueType fonts in Windows)
PCL mode:
Courier 10 point, 12 pitch: Regular, Bold, Italic
Courier 12 point, 10 pitch: Regular, Bold, Italic
Line Printer 8.5 point, 16.66 pitch: Regular

Interface:

Bidirectional parallel (IEEE P1284-B)

*3 Emulation means to operate like another printer.

Scanner and Copier Block

Paper Feed

Auto document feed up to 20 sheets of paper (20 lbs)

Document Size

Width 89 to 216 mm (3 5" to 8 5")
Length 55 to 356 mm (2 17" to 14")

Document Weight

60 to 120 g/m^2 (16 to 32 lbs) for continuous scanning
60 to 135 g/m^2 (16 to 36 lbs) for single page scanning

Effective Scanning Width

Max 208 mm (8 19")

Scanning Resolution

Horizontal 300 [dots per inch (dpi)]
Vertical 300, 600 *1
(Copying The scanned data is printed with
  600 × 600 dpi)

OCR point size range *2

8~72 point type

Scanner Interface

TWAIN

Image Scanner Type

Contact image sensor

Scanning Speed *3

Maximum scanning speed 5 pages per minute (ppm)
document feed speed, when scanning a Letter size
document with 300 × 300 dpi in text mode

Copying Speed

Maximum copying speed 4 copies per minute (cpm), when
continuously making copies of more than one Letter size
document
(6 cpm, when making more than one copy in text mode
of an original Letter size document with 5% image area)

*1 600 dpi is not available in Stand Alone Copier function

*2 The recognition rate for Point Type less than 8 will get
worse, however for greater than 8 Point Type the font
may negatively effect the recognition rate

*3 Excludes the time to transfer the scanned data to PC
and display it

Paper Used for Printing

This unit is designed to work well with most types of
paper However, differences in paper may have signifi-
cant effects on the quality of the print or the reliability of
paper handling
It is strongly recommended that you always test paper
before purchasing it to make sure it provides desirable
performance The following guidelines will be helpful

Paper Specifications

Basic Weight

60 to 135 g/m^2 (16 to 36 lbs)

Thickness

3 7 to 7 5 mils (1 mil=1/1000")

Moisture Content

4% to 6%

Smoothness:

100 to 300 Sheffield

Acid Content

5 5 PH minimum

Fusing Compatibility

Must not scorch, melt, offset material, or release
hazardous emissions when heated to 200°C (392°F) for
0 1 second

Cutting Dimensions

±0 0313 inch of nominal, corners 90°±4°

Grain

Long grain

Cut Edge Conditions

Cut with sharp blades, no paper dust

Ash Content:

Not to exceed 10%

Curl

No allowable curl toward the side to be printed

Packing

Polylaminated moisture proof ream wrap

Note·
• Please store your paper according to the
  recommendations of the manufacturer

Specifications

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Paper and Envelope Sizes

The following paper and envelope sizes are supported by the KX-PS600.

Medium	Name	Dimension
Paper	Letter	8.5" × 11" (216 × 279 mm)
	Legal	8.5" × 14" (216 × 356 mm)
	A4	8.27" × 11.7" (210 × 297 mm)
	Executive	7.25" × 10.5" (184.1 × 266.7 mm)
	B5 *	7.17" × 10.12" (182 × 257 mm)
	A5 *	5.83" × 8.27" (148 × 210 mm)
Envelope	Business #10	4.13" × 9.5" (104.9 × 241.3 mm)
	Monarch	3.88" × 7.5" (98.5 × 190.5 mm)
	International DL	4.33" × 8.66" (110 × 220 mm)
	International C5	6.4" × 9.02" (162 × 229 mm)

* A5 and B5 size papers can be used only in the GDI Mode.

Types of Paper to Avoid

- Extremely smooth or shiny paper or paper that is highly textured
- Coated papers
- Letterhead imprinted with low temperature or thermography. These materials may transfer onto the fusing roller and cause damage. Any pre-printed paper should use inks compatible with 200°C (392°F) for 0.1 second.
- Damaged or wrinkled paper, or paper with irregularities such as tabs, staples, etc.
- Multipart forms or carbonless paper
- Paper with a cotton and/or fiber content over 25%

Two-Sided Printing

Two-sided printing is possible. However, you should not expect the same print quality and reliability that you get with one-sided printing. We strongly recommend that you follow the guidelines below.

- Use 75 to 90 g/m^2 (20 to 24 lbs.) paper. [Do not use 60 g/m^2 (16 lbs.) paper.]
- Do not load more than 50 sheets in the paper tray.
- Before loading paper in the tray, adjust it so that the edges are even.

Transparencies and Labels

You may also print on labels and transparencies that are made for the unit. Panasonic has tested and found that the following work satisfactorily.

Note:
- With any label stock, the labels must completely cover the backing material. (☞ figure below)

OHP transparencies	3M154, 3M688, 3M688C, SCOTCH8803, 3M/SCOTCH-CG3300, 3M PP2500

Labels	AVERY 5160, AVERY 5162
	Avery Copier Labels (70 × 36 mm)
	Avery White (105 × 37 mm)
	16 labels per sheet
	COPY TACK C-16, C-24
	ESSELTE DATALINE,
	ESSELTE KOPIETIKETTER
	   15914, 15917, 15920, 15922
	FASTONALL COPY-LINE
	   18-030, 18-033, 18-034, 18-035, 18-036,
	   18-037
	HERMA Copy-print 4455, 4464
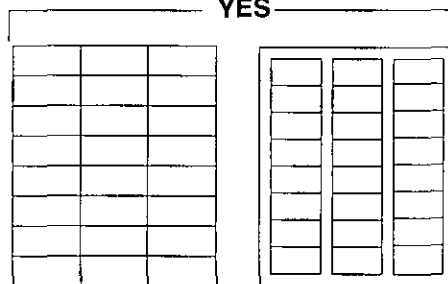
Labels cover the entire backing material
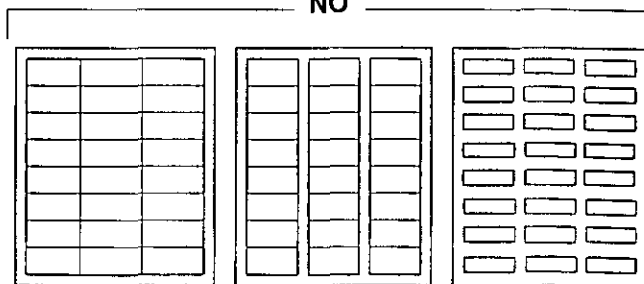
The backing material is exposed.

Envelope Specifications ━━━━━

It is recommended that you purchase only high quality envelopes with diagonal seams, as shown in the diagram below:
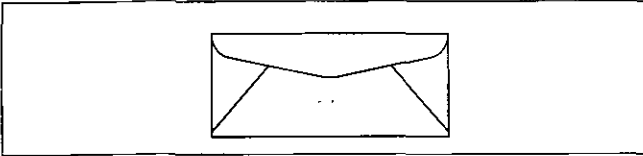
High quality envelopes have the following characteristics:

* A thin, sharply creased leading edge
* Paper weight or 90 g/m^2 (24 lbs.)
* Flat, free of curls, wrinkles, nicks, etc.

It is not recommended that you use envelopes with any of the following characteristics (using these may result in paper jams):

* Irregularly shaped envelopes
* Envelopes with curls, wrinkles, nicks, twists, dog-ears or other damage
* Envelopes with side seam construction
* Highly textured envelopes, or with extremely shiny surfaces
* Envelopes that seal by removing a peel-off strip
* Envelopes with more than one flap to be sealed
* Self-adhesive envelopes
* Envelopes that are baggy or not sharply creased
* Embossed envelopes
* Envelopes that have previously been printed on

Side seam construction	Peel-off strip	Multiple flaps
Twist	Curl	Bent-edge
Wave	Dog-ears	Self adhesive
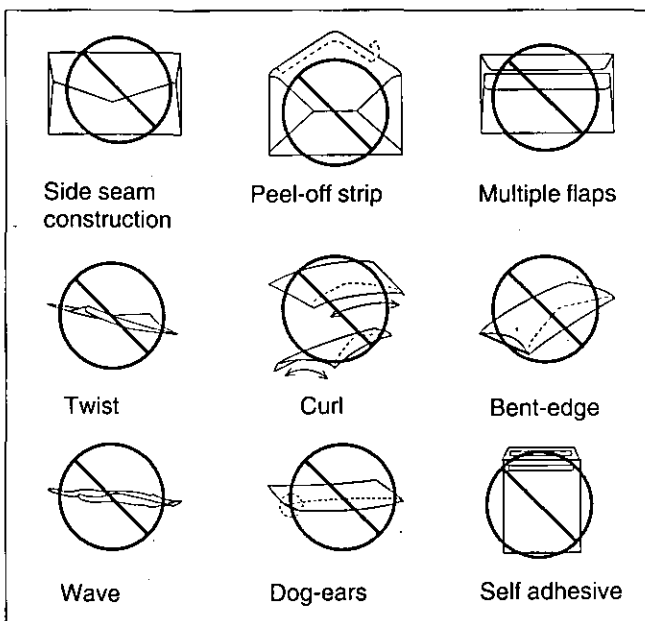
Do not attempt to print on any of the following types of envelopes. These may cause damage to your unit.

* Envelopes with clasps, snaps or tie strings (see Figure 1)
* Envelopes with transparent windows (see Figure 2)
* Envelopes that will melt, discolor, scorch offset or release hazardous emissions when exposed to 200°C (392°F) for 0.1 second
* Envelopes that use encapsulated types of adhesive that do not require moistening but rely on pressure to seal them

Figure 1   Figure 2
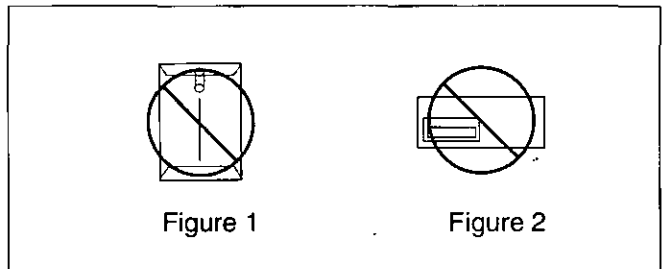
Always test a sample of the envelopes you are thinking of buying. Confirm that the envelope performs acceptably.

For best printing results
* Avoid printing in high humidity i.e., above 70%.
  High humidity may cause the envelope to curl and pick up excess toner.
  High humidity may also cause the envelope to seal.
* Avoid printing below 10°C (50°F) with less than 30% relative humidity.
  Low temperature with low humidity may cause light printing.

Envelope storage is very important. Store them away from moisture and humid air, where they can lay flat and their edges won't be bent or damaged. The humidity should not exceed 70% RH.

Specifications

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Interface Specifications

Bidirectional Parallel Interface

The bidirectional parallel interface is based on the IEEE P1284-B standard.

If your computer has a bidirectional parallel port, the printer driver and unit can take advantage of the fastest possible data transfer.

Specifications:

connector type	57-30360 (AMPHENOL) or equivalent
cable	use a shielded cable 2 meters (6.6 feet) or less in length

Pin configuration (printer side)

Signal pin	Return side pin	Signal
1	19	nStrobe
2	20	Data 1
3	21	Data 2
4	22	Data 3
5	23	Data 4
6	24	Data 5
7	25	Data 6
8	26	Data 7
9	27	Data 8
10	28	nAck
11	29	Busy
12	28	PError
13	28	Select
14	30	nAutoFd
15		
16		SG
17		FG
18		+5V
31	30	nInit
32	29	nFault
33		
34		
35		
36	30	nSelectin

Parallel Interface connector (printer side)
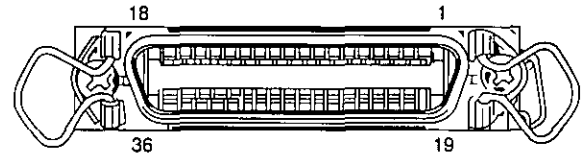
Notes:

- "Return" denotes the return side wire of a twisted pair cable and is connected to signal ground.
- Be sure to use only a shielded cable. The unit will not operate properly if any of the pins are not connected.

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Appendix

FOR USERS IN THE CONTINENTAL
UNITED STATES ONLY

Panasonic Warranty Policy

Panasonic Computer Peripheral Company ("PCPC") will repair or exchange your unit (exclusive of <u>Consumables and Limited Life Items</u> listed below) with a new or comparable rebuilt, reconditioned or reclaimed unit in exchange for the defective unit, free of charge, in the U.S.A. for (1) year from the date of original purchase in the event of a defect in materials or workmanship.

<u>Consumables and Limited Life Items</u>

PCPC will repair/replace the Process Unit and/or Toner with new or rebuilt, reconditioned or reclaimed parts, free of charge, in the U.S.A. for the shorter of ninety (90) days from the date of original purchase or the rated life of the item in the event of a defect in materials or workmanship.

When you unpack your unit, you should find a process unit and power cord. If either/both of these parts are missing or defective,

– or –

If you have followed the set up instructions in this Operating Instructions manual and the unit fails to turn on or "CALL SERVICE Exx" appears on the computer screen, please call 1-800-222-0584.
(xx denotes a two digit number representing an error code)