

User's Guide

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NOTICE TO USER

In an effort to meet the demands of a rapidly changing technology, the manufacturer is continually developing new features and functions to meet your changing printing or printer needs. As a result, this manual may not exactly reflect future changes made to the product. Please be sure to consult all manual updates or addenda when using this product's documentation.

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00	-	First Edition	May.2005

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About This Manual

This manual provides easy access to the information you need to operate the 184 PPM (Pages Per Minute) laser printer.

To find out about a specific topic, refer to:

- Chapter 1: **Printer Overview** For printer components and features.
- Chapter 2: **Operator Control Panel** To access and use the liquid crystal display (LCD) window and the menus screens.
- Chapter 3: Paper Handling For media recommendations and paper handling procedures.
- Chapter 4: Web Utilities– For information on accessing the printer via the Internet or your company's Intranet.
- Chapter 5: Troubleshooting For information on printing problems and printer error and warning messages.
- Chapter 6: **Care and Maintenance** For detailed instructions on replacing consumables, clearing paper jams, and cleaning and maintaining the printer.
- Appendix A: **Safety Information** For safety information and printer characteristics, including environmental and electrical requirements.
- Appendix B: **Printer Specifications** For printer specifications.
- Appendix C: Paper Specifications For media specifications and printing guidelines.
- Appendix D: Finisher Adjustments For adjusting staple and fold positions.
- **Glossary** For definitions of terms and acronyms.
- **Index** For specific page references.

Audience

This manual is written for those persons responsible for operating the printer. A basic understanding of computer equipment and its operations is required.

Manual Conventions

The following conventions are used in this manual:

- **Bold** and *Italics* are used sparingly for emphasis.
- Information you enter: Looks Like This.
- Key Names (or Labels): Look Like This.
- System messages: Look Like This.
- Variable user information: *Looks Like This*.

Pay particular attention to Notes, Cautions, and Warnings. These alert you to critical information, as follows:

NOTE:

Provides important additional information.

CAUTION!

Alerts you to an operating procedure, practice, or condition that, if not strictly observed, might result in damage to the equipment.

WARNING!

Alerts you to an operating procedure, practice, or condition that, if not strictly observed, can result in safety hazards to personnel, severe injury, or loss of life.

For More Information

Refer to the following related documents for more details about your printer.

- Unpacking and Setup Instructions
- Engine Maintenance Manual
- Controller Maintenance Manual
- Illustrated Parts List (IPL)



1-1

What This Chapter Provides

This chapter describes the parts and functions of the printer.

- Printer Features
- Operator Control Panel
- Printer Views
- <u>Space Requirements</u>
- <u>Powering on the Printer</u>
- <u>Powering off the Printer</u>

	1		1	Printer Overview
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Printer Features

The printer is a high-speed, shared-use laser printer for a 600K page/month printing environment. It incorporates a wide variety of features:

- High-Speed and High-Quality Printing.
 - Print speed is up to 184 pages per minute (ppm), A4/Letter (Simplex) black/ black printout.
 - □ The printing output is at a resolution of 600 dots per inch (dpi), assuring razor-sharp graphic and text output, even at very small point sizes.
- Flexible Paper Source and Delivery.

Paper Source:

- Standard Two 500-sheet universal paper trays and one 2000-sheet universal paper cassette.
- Standard 150-sheet capacity Multi-bypass Tray (MBT) for automatically printing small jobs, or manually feeding single sheets (including transparencies, labels, and odd-sized print media).
- □ Standard High Capacity Feeder with 3000-sheet capacity.
- □ Option 200-sheet universal paper Inserter (92 ppm only).

Paper Delivery:

- Standard Standard Finisher
 2,500-sheet (Elevator Tray)
 200-sheet (Upper Tray) capacity Finisher
- Option Booklet Finisher
 2,500-sheet (Elevator Tray)
 200-sheet (Upper Tray)
 20-set (Booklet) capacity Booklet Finisher with folding and stapling for booklets.
- □ Option Container Stacker with 1,500 to 6,000-sheet capacity and stacking capability.
- Multiple Original Printing (MOP) for printing of multiple collated document sets without multiple file transfers. Processes PCL and PostScript jobs once, stores the images on disk, and prints each set from disk (after the first set).
- Web Utilities for remote access to the printer through the Internet or your company's Intranet.
- Ergonomic operation.
 - □ The easy-to-read display clearly shows the operational status of the printer.

1-2 Printer Overview

- Component-based consumables.
 - □ User replaceable toner and staples.
- High-volume printing (20 lb. paper)
 - □ Three standard paper cassettes with approximately 3000-sheet capacity total and the Multi-bypass Tray (MBT) with a 150-sheet capacity.
- Supports a wide-range of media types (bond, color, label, letterhead, preprinted, prepunched, recycled, transparency) and other sizes.

Operator Control Panel

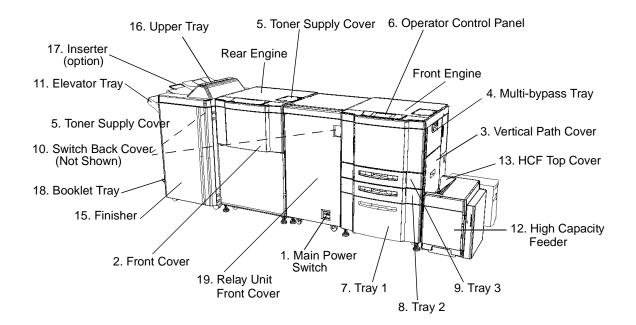
The Operator Control Panel (OCP) is your physical interface to the printer's features and functions. From the control panel, you can monitor the printer's operating status and configure the specific printer functions.

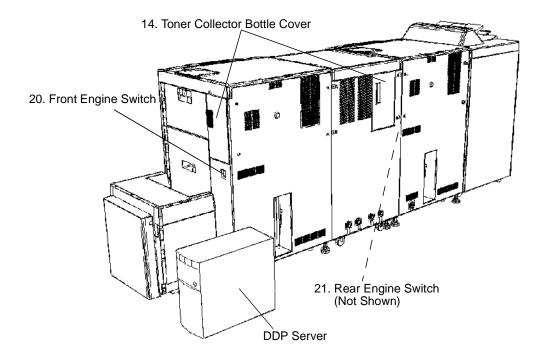
See Chapter 2 for detailed information about the OCP.

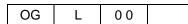
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External View of the Printer

The following illustration shows the printer with an Advanced Finisher and High Capacity Feeder installed. Refer to your option-specific User's Guide for details on other devices.







Key	Component	Description
1	Main Power Switch	Use to turn the system on and off.
2	Front Cover	Open to replace units, clear paper jams, or clean the inside of the printer. (Front and Rear Printer)
3	Vertical Path Cover	Open to clear paper jams. (Front and Rear Printer)
4	Multi-bypass Tray (MBT)	Holds up to 150 sheets of paper. (Front Printer)
5	Toner Supply Cover	Open to replenish the toner supply. (Front and Rear Printer)
6	Operator Control Panel (OCP)	Displays printer status and menu information. (Front Printer)
7	Tray 1	Holds up to 2,000 sheets of paper. (Front Printer)
8	Tray 2	Holds up to 500 sheets of paper. (Front Printer)
9	Tray 3	Holds up to 500 sheets of paper. (Front Printer)
10	Switch Back Cover	Open to clear paper jams.(Front and Rear Printer)
11	Elevator Tray	Output tray.
12	High Capacity Feeder (HCF)	Holds up to 3,000 sheets of paper.
13	HCF Top Cover	Open to clear paper jams.
14	Toner Collector Bottle Cover	Open to replace the toner collector bottle.(Front and Rear Printer)
15	Finisher	For stacking, job offset, and stapling.
16	Upper Tray	Output tray.
17	Inserter	Holds cover sheet or insert paper.
18	Booklet Tray ¹	Output tray for the Booklet Finisher.
19	Relay Unit Front Cover	Open to clear paper jams.
20	Front Engine Switch ²	Use to turn the front Engine on and off.
21	Rear Engine Switch (not shown) ²	Use to turn the rear Engine on and off.

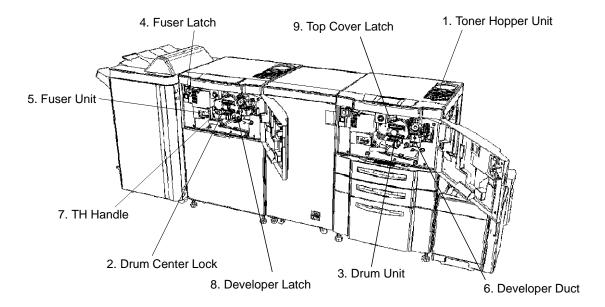
NOTE:

1 When Booklet Finisher is installed.

2 Front and Rear Engine power switch should remain on. Use Main Power Switch to power the system on and off. See "Powering On the Printer" on page 1-9.

Internal View of the Printer

The following figure shows an internal view of both the Front and Rear Engine. The components are identical in both engines.



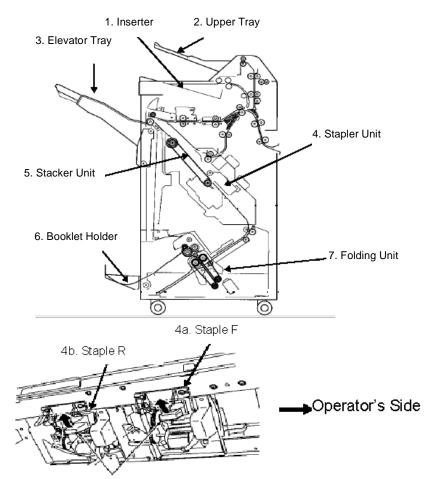
Key	Component	Description
1	Toner Hopper Unit	For replacing toner.
2	Drum Center Lock	Holds the drum in place.
3	Drum Unit	OPC drum.
4	Fuser Latch	Provides access to the fuser unit.
5	Fuser Unit	Fuses the toner on the paper.
6	Developer Duct	For replacing developer.
7	TH Handle	Handle of the toner transfer unit.
8	Developer Latch	Provides access to the developer unit
9	Top Cover Latch	Provides access to the toner hopper unit

1-6 Printer Overview

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Internal View of the Finisher

The following figure shows an internal view of the finisher with the front cover open.



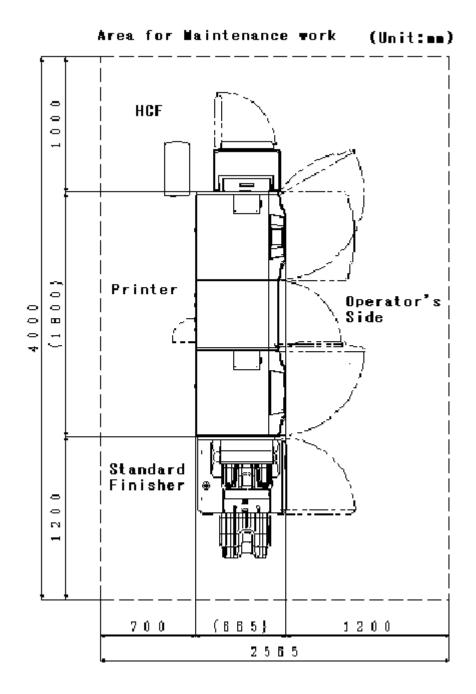
Staple Cartridge

Key	Component	Standard Finisher	Booklet Finisher	Description
1	Inserter	0	0	Use for cover or insert sheets.
2	Upper Tray	0	0	Exit tray.
3	Elevator Tray	0	0	Exit tray.
4	Stapler Unit	0	0	Contains both a front and rear staple cartridge.
4a	Stapler F	0	0	Front stapler unit.
4b	Stapler R	0	0	Rear staple cartridge.
5	Stacker Unit	0	0	Copies are stacked here until they are stapled and set to the output tray or folding unit.
6	Booklet Holder	Х	0	Holds completed booklets.
7	Folding Unit	Х	0	Folds the paper.

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Space Requirements

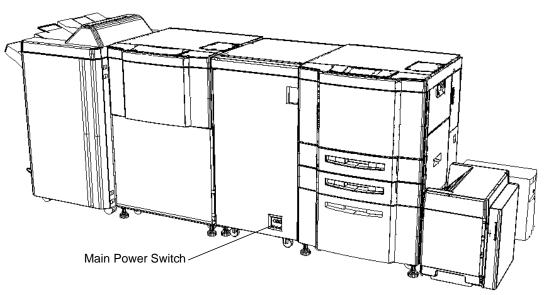
Install the printer in a well-ventilated area and leave space around the printer as shown below for safe and effective operation. If a fan's exhaust port or intake port are restricted, print quality may deteriorate or the printer may be damaged.



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Powering On the Printer

The location of the main power switch is shown below. The switch is marked "O" for Off and "I" for On.



When the printer is powered on, the printer and the finisher go through a power-up sequence that takes approximately 4 minutes. During the power-up sequence, the printer runs a series of internal tests.

CAUTION!

If the printer does not power on, power off the printer, wait at least 30 seconds, then power n the printer again.

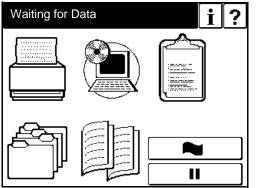
NOTE:

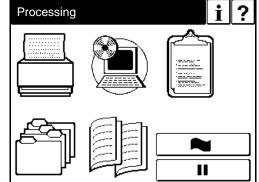
The entire system should be powered On and Off using the main power switch shown above. To do this, both the front and rear engine power switches must remain in the On position. If either the front or rear engine power switch is in the Off position, an error will occur or the OCP display will not come up. In this situation, turn Off the main power switch, turn On the power to the front and/or rear engine, then turn On the main power switch.

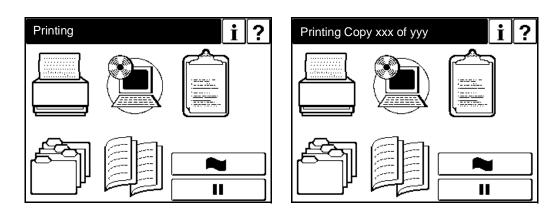


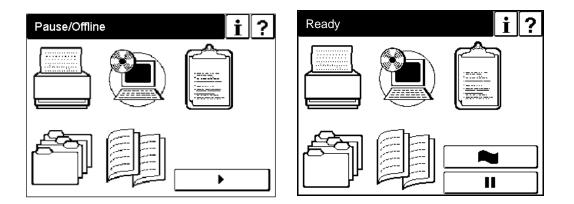
Powering Off the Printer

The printer should only be powered off when it is in a "Ready" state; that is, there are no jobs printing or processing. The following OCP displays indicate normal conditions. In these conditions, wait until printing is complete and the printer is Ready, then switch off the Main Power.

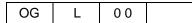








If the printer status is Pause/Offline, touch > to return printer to a Ready status before powering off.



Canceling a Print Job

If an error condition exists, you may need to cancel the print job(s).

1. Canceling a job in the DDP Server

Please refer to "DocXPLORER Reference Guide" for instructions on canceling a job that has been spooled to the DDP Server but has not yet begun to print. The DocXPLORER Reference Guide can be found on the User's Documentation CD.

2. Canceling a job in the printer

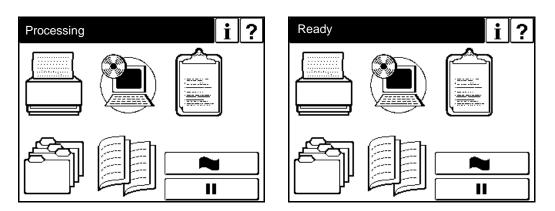
To cancel a job that has been sent to the printer or has already been spooled in the printer, access the Jobs menu on the OCP.

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Clearing Other Error Conditions

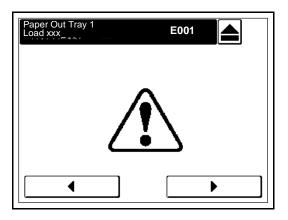
OCP Alternates between Ready and Processing (hangs up).

1. Use the procedure above to cancel the print job(s).



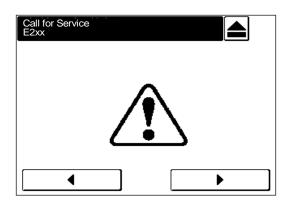
E0XX, E1XX Error

- **1.** Correct the error and press the Resume (\rightarrow) button on the OCP display.
- **2.** Wait until printing is complete and the printer returns to Ready, then switch off the main power.



E2XX, EC#XX, BR#XX Call for Service Error

- **1.** Press the Resume (\blacktriangleright) button on the OCP display.
- 2. Wait until printing is complete and the printer returns to Ready.



3. If the Call for Service error persists, cancel the print job(s), power off the printer, and contact your authorized service technician.

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1-14 Printer Overview

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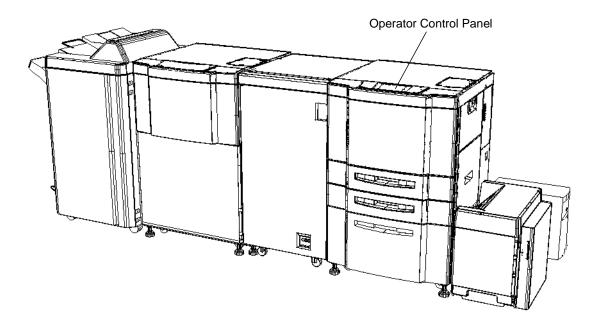
What This Chapter Provides

This chapter contains information on the following topics.

- OCP Description
- OCP Menu Icons and Buttons
- Using the OCP Menus
- Menu Structure
- Passwords

OCP Description

The Operator Control Panel (OCP) is a touch panel display that you use to set up print options and monitor job and printer status. It is also used by the System Administrator to configure the printer and by the Service Technician to perform maintenance on the printer.





OCP Menu Icons and Buttons

The menus are accessed via the touch panel. Each OCP menu consists of icons and buttons that you use to make selections. The icons and buttons are defined below. See "Main Menu" on page 2-8 for more icons.

Icon or Button	Name	Function
?	Help	Touch to display Help on the current screen.
i	Information	From the Main Menu, displays information about the printer and consumables.
		From relevant screens, displays an illustration of the paper trays or finisher trays.
~	Sample Tray Output	Touch to print a copy of the current print job to the sample tray.
II	Pause/Offline	Touch to pause the printer.
•	Resume/Online	When the printer is offline, touch to return to Ready status.
	Return to Main Menu	Touch to cancel the current selection and return to the Main Menu.
•	Previous Menu	Touch to cancel the current selection and return to the previous screen or menu.
*	More Options	Touch to display additional options for the current selection.
	Enter or Accept	Confirm or Done. Touch to confirm your selection and return to the previous screen or menu.
	Text Box	Values that are entered using the ten key pad are shown in the text box.
Clr	Clear Button	Touch to erase entire entry.
Del	Delete Button	Touch to erase last character entered.
1 - 9	Ten Key	Use to enter numeric values.
- ¢ +	Brightness	Use to adjust backlight value of the OCP display.
- 0 +	Contrast	Use to adjust the contrast level of the OCP display.
	Status Bar	Displays the current screen name and/or any system messages.

Using the OCP Menus

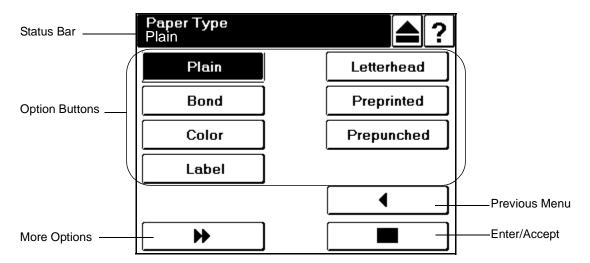
There are 4 types of OCP Menu displays.

- Option Button
- Ten Key Pad
- Change Button (+ / -)
- Change Button (Enable/Disable)

A brief description of each menu and how to use it follows.

Using the Option Button Menu

The image below is a sample of a menu with Option buttons. The status bar indicates the current setting. In this sample there is a More Options button indicating there are more options to choose from on the following page.



To use this menu,

- **1.** Touch the Option button. The selection is highlighted.
- **2.** Touch the Enter/Accept button to activate the selection.

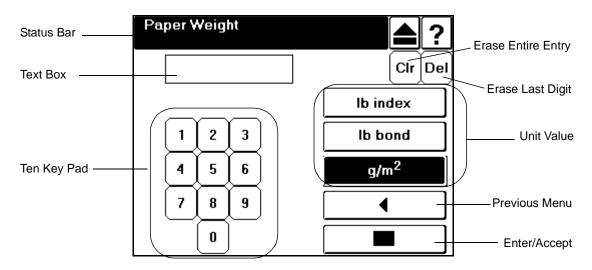
NOTE:

The selection will be ignored if the Enter/Accept button is not touched, or if any other button is touched prior to touching Enter/Accept.



Using the Ten Key Pad Menu

The image below is a sample of a menu with a ten key pad. It is used to enter numeric values.



To enter a value,

- **1.** Touch the appropriate numbers on the pad. The value appears in the Text Box.
- **2.** Touch the desired Unit Value button (if applicable).
- **3.** Touch the Enter/Accept button to activate the entry.

NOTE:

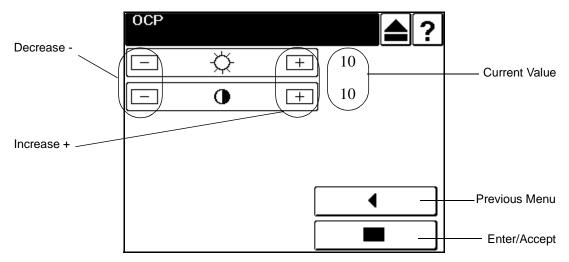
The entry will be ignored if the Enter/Accept button is not touched, or if the Previous Menu button is touched prior to touching Enter/Accept.

Operator Control Panel 2	-5
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Using the + / - Change Button Menu

The image below is a sample of a menu with a + / - change button. It is used to increase and decrease the OCP brightness and contrast. The current value is displayed to the right of the icon.



To increase or decrease the value,

1. Touch the + or - to adjust brightness or contrast. The numeric value and the display will change immediately.

Touch the Enter/Accept button to activate setting.

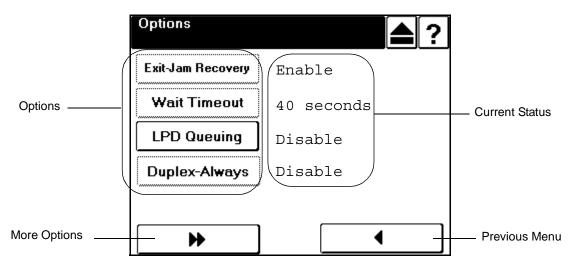
NOTE:

The setting will be ignored if the Enter/Accept button is not touched, or if the Previous Menu button is touched prior to touching Enter/Accept.



Using the Enable/Disable Change Button Menu

The image below is a sample of a menu with an Enable/Disable toggle. It is used to turn an option on or off.



- **1.** Touch the Option Button to toggle between enable and disable. The current setting appears to the right.
- 2. When you are finished, touch the Previous Menu button.

NOTE:

The Enter/Accept button is not used for Enable/Disable options. The setting is activated immediately.

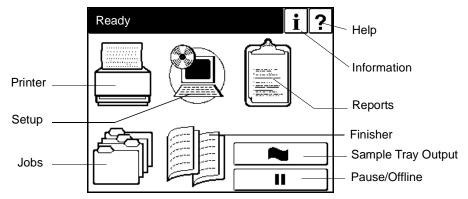


Menu Structure

The OCP menu is structured as shown on the following pages. A top level menu screen is shown followed by a description of the options on the screen. A table that outlines the complete structure of the menu is also provided. Each box in the table represents an OCP display menu. Use this information to assist you in setting printer options.

Main Menu

The Main Menu screen is shown below. A description of the icons that make up the screen follows.



Printer Menu

Touch to display the Printer Menu.

Setup Menu

Touch to display the Setup Menu.

Reports Menu

Touch to display the Reports Menu.

Jobs Menu

Touch to display the Cancel Printing screen and view a list of all jobs.

Finisher Menu

Touch to display the Finisher Menu. This icon only appears when a Finisher is installed.



Information Menu

When you touch the information icon on the Main Menu this screen is displayed. You can use it to determine the current settings and status of the options described below. See Table 2-1 on page 2-10 for the complete Information Menu structure.

$\mathbf{\dot{I}}$	
Printer]
Consumables]
Usage]
Finisher]
Network]

Printer

Touch to display information about the engine and controller software revision, error counts, and the current paper type and source settings.

Consumables

Displays the status of the consumables: Toner, Developer, Drum, Fuser, Fuser Cleaning Web and Staples.

Usage

Displays current information regarding print density, preventative maintenance, and page counts.

Finisher

Displays current information regarding the Finisher(s) attached to the printer.

Network

Displays information such as MAC and IP Address, Gateway Address, Subnet Mask and HTTP Port.



			Information Menu Struct	
Level 1	Level2	Level 3	Level 4	Level 5
Information	Printer	Front/Rear	1	Size, Status, Type, Color, Weight
			2	Size, Status, Type, Color, Weight
			3	Size, Status, Type, Color, Weight
			MBT	Size, Status, Type, Color, Weight
			HCF	Size, Status, Type, Color, Weight
			Printer Graphic (Front)	
			Default Paper Source	
			Error Count This Period	
			Error Count Last 1000 page	
			Engine Revision	
			Controller Revision	
			Toner Color	
	Consumable	Front/Rear	Toner	Normal/Low
			Developer Mix	(current/limit k)
			Drum Unit	(current/limit k)
			Fuser Web	(current/limit k)
			Fuser Unit	(current/limit k)
			Charger (Note 4)	(current/limit k)
			Corotron (<i>Note 4</i>)	(current/limit k)
	Llagge	PM Due		
	Usage (Note 3)		Count (Black, Color, MICR, Total	l Count)
	Usage	Front/Rear	Toner Coverage	
	(Note 5)		PM Due (Note 2)	
			Total Sheets (Note 2)	
			Total Sides (Note 2)	
	Finisher	Advanced	Upper Tray	Normal/Full
		Standard	Elevator Tray	Normal/Full
			Rear Staple Cartridge	Normal/Low
			Front Staple Cartridge	Normal/Low
			Default Output	
		Advanced	Inserter	
		(Booklet)	Upper Tray	Normal/Full
		(Note 1)	Elevator Tray	Normal/Full
		(Rear Staple Cartridge	Normal/Low
			Front Staple Cartridge	Normal/Low
			Default Output	Nonnai/Low
			Folder	
			Booklet Holder	Normal/Full
		Container	CS1 Lower	Paper size,
		Container		
			CS1 Upper CS2 Lower	Basket information
			CS2 Upper	
	Network	Front/Rear	MAC Address	
	INCLWOIK	FION/Reaf	IP Address	_
			Subnet Mask	
			Gateway Address	
			HTTP Port	

Note 1: This display is only available when the Booklet Maker Finisher is installed.

Note 2: This display is only available for the Front Engine.

- Note 3: This menu is displayed when the Click Charge is supported and set [Service] -[Click Charge] - [Page Click] = Validated.
- Note 4: This feature is only available for the Rear Engine. Engine Micro Revision 3724/3823/3928/4023 or higher.
- Note 5: This menu is displayed when the Click Charge is not supported or when the Click Charge is supported and set [Service] - [Click Charge] - [Page Click] = All.

Printer Menu

When you select Printer from the Main Menu, this screen is displayed. You use the Printer Menu to gain access to the printing options described below. See Table 2-3 beginning on page 2-14 for the complete Printer Menu structure.

Printer	?
Paper Source	
Default Output	
Options	
PostScript	
Test Print	

Paper Source Options

Default Paper Source

Use this when the paper source is not designated by a host command. If a command from the host defines the paper source, the OCP setting is ignored.

Paper Size

When Paper Size is selected the paper size of the currently selected paper source is displayed. To use the OCP to set the paper size to something other than the predetermined sizes in the paper tray, set the sensor plate in the paper tray to " \checkmark ", then select Paper Size on the OCP.

Paper Type

When Paper type is selected the currently selected paper type is displayed. Press the option buttons to select the desired paper type. See Table 2-3 beginning on page 2-14 for a list of paper type options.

Paper Color

When Paper Color is selected the currently selected paper color is displayed. Press the option buttons to select the desired paper color. Table 2-3 beginning on page 2-14 for a list of paper color options.

Paper Weight

When Paper Weight is selected the currently selected paper weight is displayed. Press the option buttons to set the desired paper weight. See Table 2-3 beginning on page 2-14 for a list of paper weight options.

Tray Adjust

The print position can be adjusted vertically and horizontally using the Tray Adjust option. The white arrow on the Tray Adjust screen indicates paper feed direction. The adjustment can be set to millimeters or inches and the range is -6.3 to +6.3 millimeters (-0.25 to +0.25 inches) in increments of 0.1 millimeter (0.01 inch). Difference positions can be set for front and back side in duplex printing mode.

Operator Control Panel 2-11

Color Control

This function is used when necessary to reduce the image size on the printed page due to paper shrinkage during printing. It uses the set-up value to reduce the printed image. For the front engine the reduction of the image for the horizontal direction can be 0%, 0.12%, 0.24%, 0.36% or 0.48%. For the rear engine the reduction of the image for the horizontal direction can be 0.12%, 0.24%, 0.36%, 0.48% and 0.60%. For both the front and rear engine the reduction of the image for the vertical direction can be from 0 to 1.00% in increments of 0.01%.

Before this function is used, the print position must be adjusted vertically and horizontally. Refer to Setting the Tray Adjust values for adjustment of print position.

The screen display is based on whether the print mode is simplex or duplex.

In the case of simplex mode, the reduction value is fixed at 0% for the front side in the front engine because the paper does not shrink. The value needs to be set for the front side of the rear engine only.

In the case of duplex printing when the paper length is 9 in. or less, the printing sequence is as follows: Front side/front engine > back side/front engine > front side/rear engine > back side/rear engine. Therefore, the reduction value should be set at 0% for front side/front engine > X% for back side/front engine > X% for front side/rear engine.

In the case of duplex printing when the paper length is over 9 in. (Letter SEF, A4 SEF, etc.), the printing sequence is as follows: Back side/front engine > front side/ front engine > back side/rear engine > front side/rear engine. Therefore, the reduction value should be set at 0% back side/front engine > X% front side/front engine > X% front side/rear engine.

NOTE:

If the paper size or direction is changed, the image may not be printed correctly. Reset the reduction value.

The cross pattern can be test printed from this menu. Factory default settings are shown below:

Mode	Engine/Side	Value
Simplex	Front Engine/Front Side	0%
	Rear Engine/Front Side	
Duplex	Front Engine/Front Side	
	Front Engine/Back Side	0%
	Rear Engine/Front Side	0.12%
	Rear Engine/Back Side	0.12%

Table 2-2. Color Control Settings

Paper Pattern

This menu displays the 16 pattern data for every paper tray.

NOTE:

The Paper Pattern function will be available in a future release.



Default Output

This option button is not available.

Options

Exit Jam Recovery

Can be set to enable or disable. When set to enable, the printer will reprint pages that were improperly printed due to a paper jam.

Wait Timeout

Defines the waiting period (in seconds) from reception of last data to the reception of next data. If data is not received within the defined period, the job is cancelled. The valid range is 0 - 999 seconds. The factory default is 40 seconds. A command from the host will override the OCP setting.

LPD Queuing

This option is not normally used in the 184 printing environment. The factory default is disabled.

Duplex Always

Can be set to enable or disable

Print Density

Print Density can be adjusted to five settings: Light, Semi-Light, Middle, Semi-Dark or Dark

Detach Voltage

It is recommended that you contact your authorized Service Technician prior to making any change to the detach voltage settings.

Heat Roll TMP

Heat Roll Temperature can be adjusted to three settings: (Low: 180 C, Normal: 190 C, High: 200 C)

Laser Power

This option can be adjust to 31 levels from -15 to +15. The laser line becomes thinner at the - settings and wider at the + settings.

DBL Feed Detect

Can be set to enable or disable.

H Positioning

Can be set to enable or disable. When set to enable, skew detect can be set to enable or disable.

PostScript

PostScript options are not available.

Test Print

Use this option button to select from the various test print patterns.



Operator Control Panel 2-13

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Printer	Paper Source	Default	Auto Select		
(Note 1)			1		
			2		
			3		
			MBT		
		Paper Size	HCF 1	Folio SEF, Letter Tab LEF, Super	Input menu for
		Faper Size	1	B LEF, A4 Tab LEF, Letter SEF,	Custom Size
				A4 SEF, Custom Size (Note 2)	Oustoin Oizo
			2	Folio SEF, Letter Tab LEF, Super	Input menu for
				B LEF, A4 Tab LEF, Statement	Custom Size
				SEF, Executive LEF, Custom	
				Size, Letter SEF, A4 SEF	
				(Note 2)	land a second second
			3	Folio SEF, Letter Tab LEF, Super B LEF, A4 Tab LEF, Statement	Input menu for Custom Size
				SEF, Executive LEF, Custom	Custom Size
				Size, Letter SEF, A4 SEF	
				(Note 2)	
			MBT	Letter LEF, Folio SEF, Letter	Input menu for
			(Note 3)	SEF, Legal SEF. Ledger SEF,	Custom Size
				Statement SEF, Executive LEF,	
				A4 LEF, B5 LEF, A4 SEF, B4 SEF, A3 SEF, A5 SEF, Super B	
				SEF, Letter Tab LEF, A4 Tab	
				LEF, Custom Size	
		Paper Type	1	Plain, Bond, Color, Letterhead,	
				Preprinted, Prepunched,	
				Recycled, Special, Other,	
			2	Type 1 - Type 16 Plain, Bond, Color, Letterhead,	
			2	Preprinted, Prepunched,	
				Recycled, Special, Other,	
				Type 1 - Type 16	
			3	Plain, Bond, Color, Letterhead,	
				Preprinted, Prepunched,	
				Recycled, Special, Other,	
			MBT	Type 1 - Type 16 Plain, Bond, Color, Letterhead,	
			וטוא	Preprinted, Prepunched,	
				Recycled, Special, Transparency,	
				Transparency-pp, Other,	
				Туре 1 - Туре 16	
			HCF	Plain, Bond, Color, Letterhead,	
				Preprinted, Prepunched, Recycled, Special,	
				Type 1 - Type 16	
		Paper Color	1	71 ··· · · · · · · · · · · · · · · · · ·	
			2	White, Pink, Yellow, Buff,	
			3	Goldenrod, Blue, Green,	
			MBT	Transparent, Color 1 - Color 16	
			HCF		

Table 2-3. Printer Menu Structure

Note 1: Commands from the Host override OCP settings.

Note 2: This menu is available only when the sensor plate in the printer tray is set to " \blacktriangle ". Note 3: Paper size for the MBT can only be set using the OCP.

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7
Printer	Paper Source	Paper Weight	1	64-163gm ²		
				(35-90 lb. index,		
			2	17-43 lb. bond) 64-163gm ²		
			2	(35-90 lb. index,		
				(33-90 lb. lindex, 17-43 lb. bond)		
			3	64-163gm ²		
			0	(35-90 lb. index,		
				17-43 lb. bond)		
			MBT	64-163gm ²		
				(35-90 lb. index,		
				17-43 lb. bond)		
			HCF	64-163gm ²		
			(Note 1)	(35-90 lb. index, 17-43 lb. bond)		
		Tray Adjust	1	Front, Back	х, у	
		Tray Aujust	2	Front, Back	x, y x, y	
			3	Front, Back	х, у х, у	
			MBT	Front	х, у	
			HCF (Note 1)	Front, Back	х, у	
		Color Control	1	H/V Direction	Simplex/Duplex	Registration Setting
			2	H/V Direction	Simplex/Duplex	Registration Setting
			3	H/V Direction	Simplex Duplex	Registration Setting
			HCF (Note 1)	H/V Direction	Simplex/Duplex	Registration Setting
		Paper Pattern	1			Paper Size. Paper
			2			Type, Paper
			3		Preset Load/	Weight, Tray Adjust, Color
			MBT HCF	Pattern 1-16	Preset Register/	Control, Detach
					Preset Clear	Voltage, Paper
						Color,
						H Positioning
	Options	Exit-Jam	Enable			
		Recovery	<i></i>			
		Wait Timeout	# seconds Enable/			
		LPD Queuing	Disable			
		Duplex-	Disable			
		Always				
		Print Density	Front/Rear	Light	1	
				Simi-Light		
				Middle		
				Semi-Dark		
		Detach	Front/Rear	Dark		
		Voltage	TUNKEd			
		Heat Roller	Front/Rear	Low, Normal,	1	
		Tmp		High		
		Laser Power	Front/Rear	-	1	
		Adjust				
		(Note 3)				
		DBL Feed	Enable/			
		Detect	Disable	Enchle/Dischle	ļ	
		H Positioning	Positioning Skew Detect	Enable/Disable Enable/Disable		
			Skew Delect	(Note 3)		

Table 2-3. Printer Menu Structure - Continued

Note 1: This menu is displayed only when the HCF is installed. Note 2: This menu is displayed only when the Container Stacker is installed. Note 3: Engine Micro Revision: 3725/3824 or higher



Operator Control Panel 2-15

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8
Printer	Test Print	Print Quality	Solid Black	1, 2, 3, MBT, HCF	Upper Tray,	184 mode	Copies
	(Note 3)				Elevator Tray	Color: Simplex	
			Square Blk/	1, 2, 3, MBT, HCF	Upper Tray,	Color: Duplex	
			Skew		Elevator Tray		
			Half Tone	1, 2, 3, MBT, HCF	Upper Tray,		
					Elevator Tray		
			Grid	1, 2, 3, MBT, HCF	Upper Tray,		
					Elevator Tray		
			Jitter	1, 2, 3, MBT, HCF	Upper Tray,		
					Elevator Tray		
			Large Letters	1, 2, 3, MBT, HCF	Upper Tray,		
					Elevator Tray		
			Diagonal Lines	1, 2, 3, MBT, HCF	Upper Tray,		
					Elevator Tray		
			Density Scale	1, 2, 3, MBT, HCF	Upper Tray,		
					Elevator Tray		
			Small to Large	1, 2, 3, MBT, HCF	Upper Tray,		
					Elevator Tray		
			Text File 4%	1, 2, 3, MBT, HCF	Upper Tray,		
					Elevator Tray		
			Cross Pattern	1, 2, 3, MBT, HCF	Upper Tray,		
					Elevator Tray		
		Finishing Test	Staple:Front	1, 2, 3, MBT, HCF			
		(Standard)	Staple:Rear	1, 2, 3, MBT, HCF			
			Staple:Booklet	1, 2, 3, MBT, HCF			
			Jogging	1, 2, 3, MBT, HCF			
		Finishing Test	Staple:Front	1, 2, 3, MBT, HCF			
		(Booklet)	Staple:Rear	1, 2, 3, MBT, HCF			
		(Note 1)	Staple:Booklet	1, 2, 3, MBT, HCF			
			Jogging	1, 2, 3, MBT, HCF			
			Center Fold	1, 2, 3, MBT, HCF			
			Saddle Stitch	1, 2, 3, MBT, HCF			
			Inserter	1, 2, 3, MBT, HCF			
		Finishing Test	Jogging	1, 2, 3, MBT, HCF	CS1 Lower		
		(Container)		1, 2, 3, MBT, HCF	CS 1 Upper		
		(Note 2)		1, 2, 3, MBT, HCF	CS 2 Lower		
				1, 2, 3, MBT, HCF	CS 2 Upper		

Table 2-3. Printer Menu Structure - Continued

Note 1: This menu is displayed only when the Booklet Finisher is installed. Note 2: This menu is displayed only when the Container Stacker is installed. Note 3: The menu is not available during a print job.

Setup Menu

When you select Setup from the Main Menu, this screen is displayed. Use it to gain access to the Setup option screens that are described below. See Table 2-4 on page 2-20 for the complete Setup Menu structure.

Setup	(▲ ?
0CP	
Service	
System	
Consumables	
Language	
₩	

OCP

Touch to display the OCP screen. You use this screen to adjust the brightness and contrast values for the OCP display. The range is 1 to 16. The factory default is 10.

Service

The Service option is password protected. Contact your Authorized Service Technician for more information.

System

The System option is password protected. Contact your System Administrator if you need access to these options.

- Software
 - Front Engine
 Create software log
 - Rear Engine
 Create software log
- Network
 - □ Front Engine

IP Address - Factory default is 10.0.1.1 (Do not change) Subnet Mask - Factory default is 0.0.0.0. Gateway Address - Factory default is 0.0.0.0 Boot Method - Factory default is STATIC HTTP Port - Factory default is 80

□ Rear Engine

IP Address - Factory default is 10.0.2.1 (Do not change) Subnet Mask - Factory default is 0.0.0.0 Gateway Address - Factory default is 0.0.0.0 Boot Method - Factory default is STATIC HTTP Port - Factory default is 80

OG

CAUTION!

If you change the Network parameters, the DDP Server will not be able to communicate with the printers.

L	00	

Operator Control Panel 2-17

- Calendar The following settings can be made:
 - **Time** Zone See the following table for options.
 - □ Date 0000/00/00 (Year/Month/Day)
 - □ Time Set printer clock
- Country Code

Select the appropriate country code used in international phone numbers. The default setting is 1.

Energy Save Mode

When set to "Enable" the printer will go into energy save mode when there is no printing or OCP activity for a specified period of time. There are two aspects to energy save mode: heater-off mode which is set using Energy Save Time, and sleep mode which turns off the power supply. The printer will not go into energy save mode if a printer error occurs. Energy save mode is canceled under the following conditions:

- □ When the printer status line reads Online
- \Box When any key on the OCP is touched
- □ When a setting is made from the Web Utilities
- Energy Save Time

Use to set the time for heater-off mode. The range is 5 to 230 minutes. The default time is 15 minutes. Sleep mode occurs automatically when the printer has been in heater-off mode for 10 minutes.

Password

Use to change the System password. Contact your System Administrator.

Emulation

When Auto Select is selected, the host data is automatically identified. When PCL is selected, the job is handled as a PCL job.

■ Public R/W

Enable allows read/write when SNMP community name is Public.

Sample Print

When set to "Enable" the OCP will display a "continue printing?" prompt after completion of the first part of print data that is designated to print in two or more parts. The default is "Disable".



Consumables

Touch to display the user consumable options, which include replacing the developer mix, drum unit, and fuser web.

Developer Mix

Select exhaust to empty old developer mix, then select Supply to replenish with new developer mix. The counter is automatically reset.

Drum Unit

Touch to reset the counter following drum replacement.

Fuser Web

Touch to reset the counter following Fuser Web replacement.

Charger

Touch to reset the counter following Charger replacement.

Corotron

Touch to reset the counter following Corotron replacement.

NOTE:

This menu is only available for the Rear Engine. Engine Micro Revision 3724/3823/2928/4032 or higher.

Language

 Touch to list the OCP display language options. (English, Japanese, Deutsche, Fransais)

Configuration

Decurler

Select from Auto Select, Disable, and Enable. Factory default is Auto Select.

Operator Col	ntrol Panel	2-19
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Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7
Setup	OCP	Brightness	1-16			
		Contrast	1-16			
	Service					
	(Note 1)					
	System	Input Password	Software Log	Front/Rear		
		(Note 2)	Network	Front/Rear	IP Address	
					Subnet Mask	
					Gateway Address	
					Boot Method	Static
						DHCP
					HTTP Port	
			Calendar	Time Zone	GMT -12:00:	
				_	GMT +12:00	
				Date		
			-	(Note 3)		
				Time		
			Country Code			
			Energy Save Mode	Enable/Disable		
			Energy Save time			
			(Note 4)			
			Password	Input Password		
			Emulation	Auto Select		
				PCL		
			Public R/W	Enable/Disable		
	Canaumahla	Frant/Deer	Sample Print	Enable/Disable		
	Consumable	Front/Rear	Developer Mix	Exhaust		
			Drum Unit	Supply		
			Fuser Web			
			Charger (<i>Note 5</i>)			
			Corotron (<i>Note 5</i>)			
		English,				
	Language	Japanese				
		Deutsche				
		Fransais				
	Configuration	Decurler	Auto Select			
	Computation	Decuner	Enable			
			Disable			
			Disable			

Table 2-4. Setup	Menu Structure
------------------	----------------

- *Note 1: Use of the service menu is password protected. Contact your authorized Service Technician.*
- *Note 2: Use of the system menu is password protected. Contact your System Administrator. Note 3: Date format is 0000/00/00 (Year/Month/Day)*
- Note 4: Only displayed when Energy Save Mode is enabled. The default is 15 minutes.
- Note 5: Only available for the Rear Engine. Engine Micro Revision 3724/3823/3928/4023 or higher.

Reports Menu

When you select Reports from the Main Menu, this screen is displayed. You use it to print the reports described below.

Reports	▲?
Status	Paper Pattern
Demo	
Summary	
Disk Directory	

Status

Touch to print a status report and return to the Main Menu. The status report shows the current configuration of the printer and printer usage information.

Demo

Touch to print a demo report and return to the Main Menu. The demo report shows the printer specifications such as speed, paper handling, resolution, etc.

Summary

Touch to print a summary report and return to the Main Menu. The summary report shows processor, connectivity, RAM and other miscellaneous information.

Disk Directory

Touch to print a PCL disk directory report and return to the Main Menu.

Paper Pattern

Touch to print the registration value of the paper patterns for each tray.

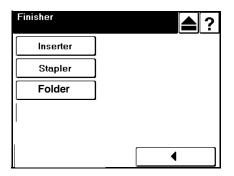
Table 2-5. Report Menu Structure

Level 1	Level 2	
Reports	Status	
	Demo	
	Summary	
	Disk Directory	
	Paper Pattern (See Note)	
Note: Paper Pattern function will be available in a future release.		

Finisher Menu for the Booklet Finisher

When you have the optional Booklet Finisher installed and you select the Finisher icon from the Main Menu, this screen is displayed. You use it to gain access to the options described below.

For detailed information on using the Booklet Finisher, refer to the *Finisher User's Guide*.



Inserter

Touch to display options for the Booklet Finisher Inserter trays. You use this screen to select the paper size, type, and weight for the Inserter trays.

Stapler

Touch to display the Booklet Finisher Stapler screen. You use this screen to modify the position of the staples in your booklets.

Folder

Touch to display the Booklet Finisher Folder screen. You use this screen to adjust the position of the fold in your booklets. Adjustments may be necessary based on sheet quality, direction, and thickness.

Table 2-6	Booklet	Finisher	Menu	Structure
-----------	---------	----------	------	-----------

Level 1	Level 2	Level 3	Level 4	Level 5
Finisher1	Inserter	Paper Size	Letter LEF, Letter SEF,	Input for
Booklet			Ledger SEF, Legal LEF,	Custom Size
			A4 LEF, A4 SEF, A3 SEF,	
			B5 LEF, B4 SEF, Custom	
			Size	
		Paper Weight	64 - 163g/m	
			(35 - 90 lb. index	
			17 - 43 lb. bond)	
	Stapler	Letter SEF, B4 SEF,	Position	
		A4 SEF, A3 SEF,		
		Legal SEF, Ledger		
		SEF, Other		
	Folder	Letter SEF, B4 SEF,	Position	
		A4 SEF, A3 SEF,		
		Legal SEF, Ledger		
		SEF, Other		



Finisher Menu for the Container Stacker

When you have the optional Container Stacker installed and you select the Finisher icon from the Main Menu, this screen is displayed. You use it to gain access to the Container Stacker options.

For additional information on the Container Stacker, refer to the *Container Stacker* User's Guide.

Finisher	▲?
Short Stacking	
Decurler	

Short Stacking

Touch to enable or disable short stacking mode. Short stacking mode lets you limit the amount of paper that can be delivered to the stackers.

Decurler

Touch to display the Decurler screen, where the options for decurler are AutoSelect, Enable, and Disable.

NOTE:

Activating the Decurler may cause paper jams when printing with 28 *lb. bond or heavier paper.*

Level 1	Level 2	Level 3
Finisher	Short Stacking	CS1 Lower
Container Stacker		CS1 Upper
		CS2 Lower
		CS2 Upper
	Decurler	Auto Select
		Enable
		Disable



Operator Control Panel 2-23

OG	L	00	

Passwords

Passwords provide security to restrict access to system parameters and certain printer maintenance functions. Two types of passwords are available with your printer: a system password and a service password.

The system password is used by your System Administrator and provides access to the system parameters. The service password is used by your Service Technician and provides access to service and maintenance functions, as well as the system parameters.

The passwords are not set at the factory and should be set up at installation.

1. To set up or change the service password make the following selections from the OCP:

Setup / Service

The ten-key pad will appear.

2. If you are setting the password for the first time press Enter (\blacksquare) , or

If you are changing the password, use the ten-key pad to enter the current password, then press Enter (\blacksquare) .

- **3.** Select *Passwords* from the menu.
- **4.** Enter a new password using the ten-key pad then press Enter (\blacksquare) .
- 5. Re-enter the password and press Enter (■). The display will indicate that the password has been changed.

CAUTION!

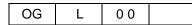
If the password is lost or forgotten it cannot be recovered. In that case, replace the HDD.



What This Chapter Provides

This chapter contains information on the following topics.

- Paper Weights
- Unacceptable Paper
- <u>Storing Paper</u>
- <u>Paper Sizes, Types, Color, and Trays</u>
- Loading Paper
- <u>Setting Custom Paper Size Values</u>
- <u>Setting Tray Adjust Values</u>
- <u>Setting the Default Tray</u>
- <u>Setting the Paper Type</u>
- <u>Setting the Paper Weight</u>
- <u>Staple Function</u>
- <u>Setting the Color Control</u>
- <u>Setting the Paper Pattern</u>



Paper

To obtain good print quality, use the recommended paper and properly position it in the correct trays. For the desired paper orientation, see the labels on the trays. Refer to Appendix C for detailed information about paper specifications, printing on special print media, and other paper handling guidelines.

Paper Weights

The printer accepts the following paper weights in all paper trays, including the MBT and HCF:

- Bond paper: 17-90 lb (64-163 g/m^2) (black + black duplex mode)
- Index paper: 20-90 lb (75-163 g/m²) (black + black simplex mode, black + color simplex mode, black + color duplex mode)
- Bond paper: 17-53 lb (64-199 g/m²) in the Inserter

Unacceptable Paper

Avoid using the following media as they cause paper jams and print quality problems.

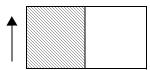
- Excessively thick or thin paper
- Paper that has already been printed (preprinted letterhead is allowed)
- Wrinkled, torn, or bent paper
- Moist or wet paper
- Curled paper
- Paper with an electrostatic charge
- Glued paper
- Paper with special coating
- Colored paper with surface treatment
- Paper unable to withstand temperature of 302°F (150° C)
- Thermal paper
- Carbon paper
- Paper with paper fasteners, ribbons, tape, etc., attached
- Heavily textured paper
- Label stock with exposed backing sheets



Multi-Feed Detect

The following media is liable to cause multi-feed misdetection. To avoid this problem, use the OCP to change the setup for Multi-feed Detect from "enable" to "disable."

- Transparency paper
- Blue lined paper (blue, aqua blue, green, etc.)
- Preprinted paper that is different from side to side (See example below)



Preprinted paper that has a solid black center near the center (see below)

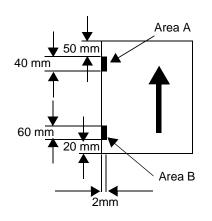


• Paper weight greater than 90lb index (163 g/m^2)

Image Sensor Detect

The following media is liable to cause image sensor (H POS sensor) misdetection. Misdetection causes irregular horizontal print position problems or misdetection of skew error. To avoid these problems use the OCP to change the setup for H Positioning from "enable" to "disable" or change the setup for H Positioning Skew Detect from "enable" to "disable."

- Dark colored paper
- Preprinted paper that is printed within 2 mm of the left edge of the paper



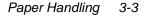
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NOTE:

If the preprinting occurs outside of Area A and B printing will be done correctly. If the paper length is less that 8.7 in. and the preprinting is outside of Area A, printing will be done correctly.

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Storing Paper

Store the paper properly to avoid print quality problems and paper jams.

- Store paper horizontally, in a flat, dry location to avoid wrinkling, bending, curling, etc.
- Store paper away from direct sunlight.
- Store any unused paper in its original packing.



Paper Sizes, Paper Types, Paper Color, and Printer Input Trays

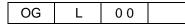
The following table shows which paper sizes can be used with the various input trays. The paper size is shown in both millimeters and inches. The term *SEF* indicates the paper is being fed into the printer short edge first and the term *LEF* indicates the paper is being fed into the printer long edge first.

Paper Size	Leading Edge mm/inch	Side Edge mm/inch	Tray 1, 2, 3	HCF	MBT (Note 1)	Inserter
A5 (SEF)	148.5.0/5.85	210.0/8.27	2, 3 only		~	
B5 (LEF)	257.0/10.12	182.0/7.17	~		~	\checkmark
A4 (SEF)	210.0/8.27	297.0/11.69	~		~	\checkmark
A4 (LEF)	297.0/11.69	210.0/8.27	V	\checkmark	~	\checkmark
B4 (SEF)	257.0/10.12	364.0/14.33	V		~	\checkmark
A3 (SEF)	297.0/11.69	420.0/16.54	~		~	\checkmark
Letter (LEF)	279.0/11.0	215.9/8.5	V	\checkmark	~	\checkmark
Letter (SEF)	215.9/8.5	279.0/11.0	~		~	~
Tab Stock (Letter LEF)	297.4/11.0	228.6/9.0	V		~	
Tab Stock (A4 LEF)	297.0/11.69	225/8.86	V			
Folio (SEF)	215.9/8.5	330.2/13.0	V		~	
Legal (SEF)	216.0/8.5	355.6/14.0	V		~	\checkmark
Ledger (SEF)	279.4/11.0	431.8/17.0	~		~	~
Super B (SEF)	304.8/12.0	457.2/18.0	V		~	
Statement (SEF)	139.7/5.5	215.9/8.5	2, 3 only		~	
Executive (LEF)	266.7/10.5	184.2/7.25	2, 3 only		~	
Custom (0.1 mm/0.1 in. increments) (Notes 2 and 3)	139.7 to 304.8/ 5.5 to 12.0	182.0 to 457.2/ 7.2 to 18.0	v		~	~

NOTES:

1. MBT Supports simplex printing only.

- 2. Tray 1 can be adjusted; however, the physical settings are limited to standard paper sizes. Use of custom size paper may result in skewing. Custom Size range is: Leading edge 210.0 mm (8.27 in), 218.0 mm (8.58 in), 257.0 (10.12 in), 297.0 mm (11.69 in), and 304.8 mm (12.0 in)
- 3. Custom size range for the Inserter tray is: 210.0 mm (8.27 in) € Leading Edge € 204.8 mm (12.1 in) 182.0 mm (7.2 in) € Side Edge € 457.2 mm (18.0 in)



Paper Types and Input Trays

Paper Type	Tray 1, 2, 3	HCF	МВТ
Plain	×	✓	\checkmark
Bond	~	~	\checkmark
Color	~	~	\checkmark
Label (See Note)			\checkmark
Letterhead	~	~	\checkmark
Pre-printed	~	~	✓
Pre-punched	~	~	✓
Recycled	~	~	✓
Special	~	~	\checkmark
Transparency			✓
Transparency-pp			~
Туре 1 - Туре 16	~	v	v
Other	~		\checkmark

The following table shows which paper type can be used in the various input trays.

NOTE:

Label stock must exit the printer and finisher in Face Up mode.

Paper Color and Input Trays

The following table shows what paper color can be used in the various input trays.

Paper Color	Tray 1, 2, 3	HCF	MBT
White	¥	~	~
Pink	×	\checkmark	~
Yellow	~	~	~
Buff	~	V	~
Goldenrod	~	\checkmark	~
Blue	~	\checkmark	~
Green	~	\checkmark	~
Transparent	~	✓	~
Color 1 - Color 16	×	✓	\checkmark



Loading Paper

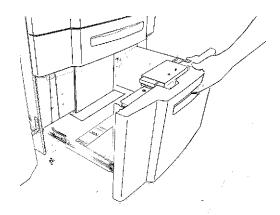
Load paper into the trays according to the instructions that follow. See "Loading Special Media" on page 3-17 for directions on loading prepunched and preprinted paper, as well as tab stock. Paper can be loaded while a print job is running, except into the tray that is currently in use.

Loading Paper in Tray 1

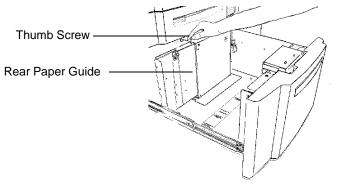
WARNING!

Do not open Tray 1 if the Fuser Unit is pulled out. The printer may tip over causing personal injury or damage to the printer.

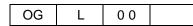
1. Open the tray by pulling it by the handle.



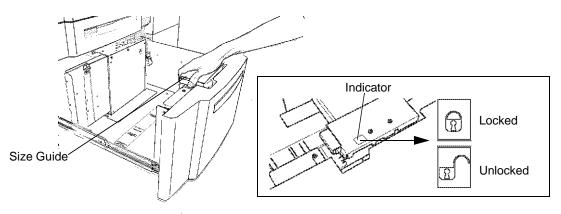
2. Loosen the Thumb Screw (black knob). (Skip to Step 3 if the Thumb Screw is not installed).



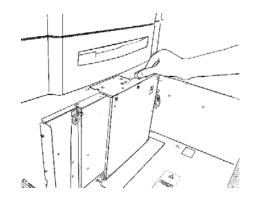
Paper	Handling	3-7
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3. Adjust the size guide to the proper size. The available sizes are marked on the tray. Use the indicator to verify the guide is locked in place.



Adjust the sensor plate to the proper size. Size markers are located on the sensor plate in the following order: ▲ (special), B5, LGR, LGL, LTR (LEF), B4, A3, and A4 (LEF). Verify the setting is locked into position..

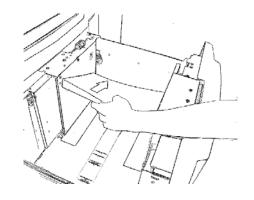


NOTE:

If the paper size you need is not listed, set the sensor plate to \checkmark (the first position). Then, in Step 8, you will select the paper size from the OCP display.



- **5.** Place the paper into the tray.
- **6.** Adjust the size guide until the gap is less than 1mm, then tighten the Thumb Screw. (Skip to Step 7 if the Thumb Screw is not installed).



NOTE:

The paper should be loaded no higher than the Max. level indicator. The Max. level indicator is located inside the tray.

- **7.** Close the tray.
- 8. If you set the sensor plate to ▲ in Step 3, select the paper size from the OCP by making the following selections:

Printer/Paper Source/Paper Size/Tray Number/Paper Size

9. Adjust the paper weight. The default paper weight is 20 lb. bond. If necessary, change the paper weight by making the following selections:

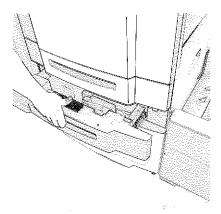
Printer/Paper Source/ ▶/Paper Weight/tray number

10. Select Index, Bond, or g/m^2 , then use the keypad to input the weight and press \blacksquare .

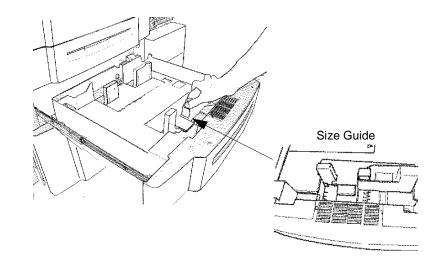
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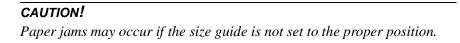
Loading Paper in Tray 2 or 3

1. Open the tray.



2. Adjust the size guide to the proper size. The available sizes are marked on the bottom of the tray.



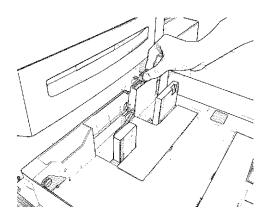




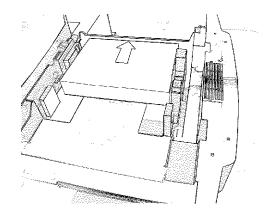
Adjust the sensor plate to the proper size. Size markers are located on the sensor plate in the following order: ▲ (special), B5, A5, LGR, LGL, LTR, B4, A3, and A4.

NOTE:

If the paper size you need is not listed, set the sensor plate to \checkmark (the first position). Then, in Step 8, you will select the paper size from the OCP display.



4. Place the paper into the tray.



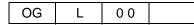
NOTE:

The paper should be loaded no higher than the Max. level indicator. The Max. level indicator is located inside the tray.

- **5.** Close the tray.
- 6. If you set the sensor plate to ▲ in Step 3, select the paper size from the OCP by making the following selections:

Printer/Paper Source/Paper Size/Tray Number/Paper Size

Paper Handling 3-11



7. Adjust the paper weight. The default paper weight is 20 lb. bond. If necessary, change the paper weight by making the following selections:

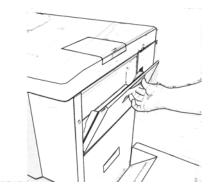
Printer/Paper Source/ ₩/Paper Weight//Tray Number

8. Select Index, Bond, or g/m^2 , then use the keypad to input the weight and press \blacksquare .

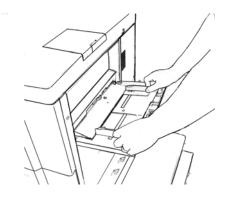
3-12 Paper Handling

Loading Paper into the MBT

1. Open the MBT by pulling it by the handle.



2. Adjust the size guide to the proper size. The paper size positions are marked on the bottom of the tray and on the top of the size guide.

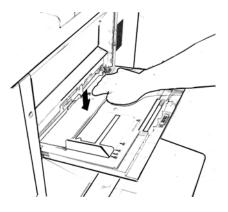


CAUTION! Paper jams may occur if the size guide is not set to the proper position.

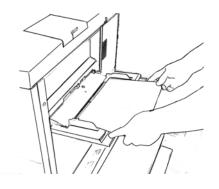
|--|

Paper Handling 3-13

3. Push down the paper tray.



4. Insert the paper onto the tray until it reaches the inner end of the tray.



)

NOTE:

The paper should be loaded no higher than the Max. level indicator. The Max. level indicator is located inside the tray.

When printing on pre-punched paper, refer to "Loading Special Media" on page 3-17.

5. Select the paper size from the OCP by making the following selections:

Printer/Paper Source/Paper Size/MBT/Paper Size

6. If the paper size you choose is custom, see "Setting the Custom Paper Size Values" on page 3-22.

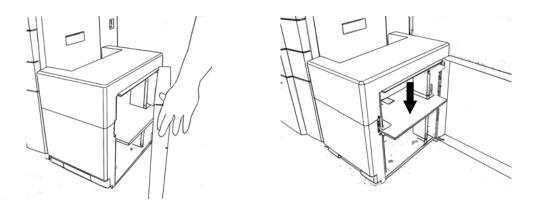
3-14 Paper Handling

Loading Paper into the HCF

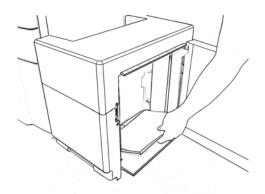
WARNING!

The table inside the HCF automatically descends when you open the door of the HCF. Do not allow anything to be caught between the table and the bottom of the HCF.

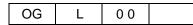
1. Open the door of the HCF by pulling it by the handle. The table inside the HCF automatically moves to its lowermost position and stops.



2. Set the paper into the HCF so that it aligns with the left side of the tray. (The HCF is set to handle Letter LEF or A4 LEF size only. A service call is required to change from one size to the other.c

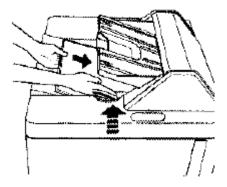


3. Close the door.



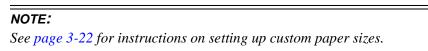
Loading Paper into the Inserter

1. Load the cover sheet into the Inserter and adjust the paper guides to the paper size.



2. Select the paper size from the OCP by making the following selections:

Finisher/Inserter/Paper Size/Select Paper Size



3. Select the paper weight from the OCP by making the following selections:

Finisher/Inserter/Paper Weight

- **4.** Select the unit value.
- 5. Using the number pad, enter the paper weight. Press to accept the value and return to the Paper Weight screen.



Loading Special Media

Pre-punched Paper

Load pre-punched paper as indicated in the following diagrams. Refer to Appendix C for more information about using pre-punched paper.

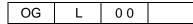
Table 3-1. Simplex Printing (Single-sided)

		Loading into		
Paper Size	Orientation	Tray 1 - 3	MBT or HCF	
Letter/A4	Portrait/Landscape	•	← :	
Ledger/A3	Portrait		↓ :	
Ledger/A3	Landscape	: →	+ :	
Letter/A4	Portrait	•••	←	
Letter/A4	Landscape	•	←	
Ledger/A3	Portrait/Landscape	•••	←	



Arrows indicate paper feed direction.

Paper Handling 3-17



Paper Size	Orientation	Loading into		
	Chemation	Tray 1 - 3	MBT or HCF	
Letter/A4	Portrait/Landscape (Long Edge Bind)	: →	← :	
Ledger/A3	Portrait (Short Edge Bind)	: →	← :	
Ledger/A3	Landscape (Short Edge Bind)	: →	← :	
Ledger/A3	Portrait/Landscape (Long Edge Bind)	••	←	
Letter/A4	Portrait (Short Edge Bind)	••	←	
Letter/A4	Landscape (Short Edge Bind)	→	←	

Table 3-2. Duplex Printing (Double-sided)



Arrows indicate paper feed direction.

3-18 Paper Handling

Paper Size	Orientation	Loading into Inserter
Letter/A4	Portrait/Landscape (Long Edge Bind)	: →
Ledger/A3	Portrait (Short Edge Bind)	: →
Ledger/A3	Landscape (Short Edge Bind)	: →
Letter/A4	Portrait (Short Edge Bind)	•••
Letter/A4	Landscape (Short Edge Bind)	••
Letter/Ar	Portrait/Landscape (Long Edge Bind)	•••

Table 3-3. Inserter

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Loading Pre-printed Paper

Load pre-printed paper as indicated in the following table. Refer to Appendix C for more details about using pre-printed paper.

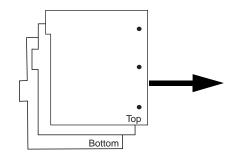
Banar Tuna	Print	Loading Into			
Paper Type	Mode	Tray 1 - 3	MBT/HCF	Inserter	
	Simplex	Front side down	Front side up	Front side up	
Front/Back Side		Paper up to 9 in.(feed direction), front side down			
Predetermined	Duplex	Paper longer than 9 in. (feed direction), front side up (See Note 1)	Front side up	N/A	
	Simplex	First sheet on top, face down	First sheet on top, face up	N/A	
Page Number Predetermined	Duplex	Paper up to 9 in. (feed direction), first sheet on top, face down Paper longer than 9 in.	First sheet on	N/A	
	2 0010	(feed direction), first sheet on top, face up (See Note 1.)	top, face up		
Note 1 : The restriction of 9 inches only applies to printers with a powered Finisher or Container Stacker installed because the printer does not support face-up delivery of paper longer than 9 in to a powered					

installed because the printer does not support face-up delivery of paper longer than 9 in. to a powered Finisher or Container Stacker.



Loading Tab Stock

1. Load tab stock as shown in the illustration below.



NOTE:

Avoid bending the tabs or the corners of the tab dividers as this will increase the likelihood of a jam occurring during the printing process. If a jam does occur, refer to page 6-36 for instructions on jam recovery.

In the main paper trays, place the straight edge of the tab stock against the straight *right* leading edge of the paper tray. The tabs should be on the *left*, also known as the trailing edge. In the MBT, place the straight edge into the machine. Tab stock cannot be used in the HCF.

Load only complete tab sets. The first tab in the set should be on top of the stack and the last tab on the bottom. Adjust the paper guides so that they hold the tab stock securely in position in the tray.

NOTE:

You must set the sensor plate in the tray to the Custom position (\checkmark).

2. Select the paper size from the OCP by making the following selections. (If the tab stock is not 9 in. by 11 in., select Custom Size.)

Printer/Paper Source/Paper Size/tray number/LetterTab or Custom Size

3. If you selected Custom Size in Step 2, see "Setting the Custom Paper Size Values" on page 3-22 for instructions on entering the custom paper size.

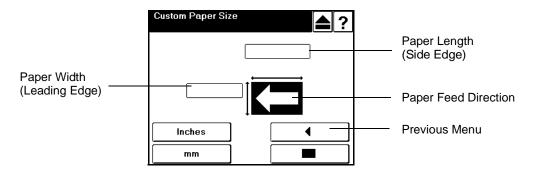
Paper Handling 3-21

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Setting the Custom Paper Size Values

If the paper size you have selected is a custom size you must set the paper size using the OCP. First, follow the steps for loading paper into the desired tray, then perform these steps

1. On the Custom Paper Size screen, touch the value box for the leading edge (the arrow in the illustration points to the leading edge).



The Custom Paper Size Input screen is displayed.

Custom Paper Size	▲ ?
123 456	Cir Del
789	
0.	

- **2.** Using the number pad, enter the value for the leading edge of the paper.
- 3. Press enter (■). The display returns to Custom Paper Size and the value you have entered is shown.
- **4.** Touch the value box for the side edge. The display returns to Custom Paper Size Input.
- 5. Using the number pad, enter the value for the side edge of the paper.
- 6. Press enter (■). The display returns to Custom Paper Size and now both values you have entered are displayed.
- **7.** Press enter (\blacksquare). Your custom paper size settings are now saved.

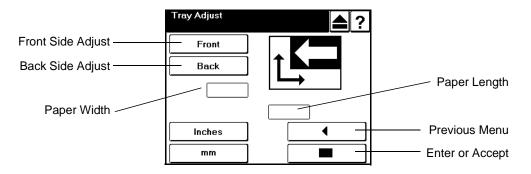
3-22 Paper Handling

Setting the Tray Adjust Values

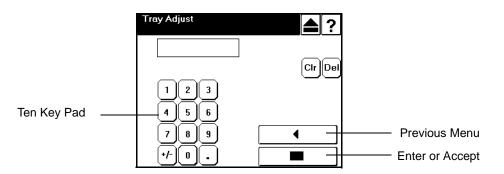
The tray adjust feature is used when it is necessary to shift the image on the printed page. You can shift the image -0.25 in. (-6.3 mm). When printing in duplex mode, you can set different tray adjust values for the front side and back side of the paper.

1. To display the Tray Adjust screen, make the following selections from the OCP:

Printer/Paper Source/ → /*Tray Adjust/tray number*



2. On the Tray Adjust screen, touch the left-most value box. The Tray Adjust Input screen is displayed.



- **3.** Using the number pad, enter the value for the feed direction of the paper. A positive value, (+0.25) moves the image right or up and a negative value (-0.25) moves the image to the left or down on the printed page.
- **4.** Press enter (■). The display returns to the Tray Adjust screen and the value you have entered is shown.
- 5. Touch the bottom-most value box. The display returns to Tray Adjust Input.
- **6.** Using the number pad, enter the value for the scan direction of the paper. For example, entering + 0.25 moves the image 0.25 in. to the top of the printed page.
- 7. Press enter (■). The display returns to the Tray Adjust screen and now both values you have entered are displayed.
- **8.** Press enter (\blacksquare). Your tray adjust settings are now saved.

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Paper Handling 3-23

Setting the Default Tray

When a print job does not specify the paper source, the printer will use the default setting. You set the default paper source as follows. From the OCP select:

Printer / Paper Source / Default / Tray

Setting the Paper Type

To set the paper type for each tray perform the following steps. From the OCP select: $\mathbf{D} = (\mathbf{D} - \mathbf{C})^T$

Printer / Paper Source / Paper Type

Setting the Paper Color

To set the paper color for each tray perform the following steps. From the OCP select: *Printer / Paper Source / Paper Color*

Setting the Paper Weight

To set the paper weight for each tray perform the following steps. From the OCP select:

Printer / Paper Source / Paper Weight

The paper weight adjustment screen is displayed.

- **1.** Using the number pad, enter the value.
- **2.** Select the unit of weight.
- **3.** Press enter (\blacksquare).



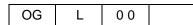
Stapling

Portrait

Use the following table as a guide for staple position on a Portrait document.

Feed Direction Staple Position	Long Edge Feed (LEF)	Short Edge Feed (SEF)
Center	Ϋ́Α	
Center Right Side Bind	A	K
Long Edge	¦Α	
Long Edge Right Side Bind	A'	
Short Edge		
Center		AB

Paper Handling 3-25



Landscape

Use the following table as a guide for staple position on a Landscape document.

Feed Direction Staple Position	Long Edge Feed (LEF)	Short Edge Feed (SEF)
Center		΄ Α
Center Binding Side Right	A	Α
Short Edge		' A
Short Edge Binding Side Right		A
Long Edge		
Center		B B

Copy Limits

It is recommended that you limit the amount of copies in a job to avoid premature wear of the finisher output rollers. Use the following guidelines.

Number of Sheets in Staple Set	Number of Copies B5, A4, B4, Letter, Folio, Legal	Number of Copies A3, Ledger
2-9	100	50
10-20	50	50
21-30	30	30
31-40	25	25
41-50	20	20

Paper Size and Weight Limits

The following table displays the paper size and weight limitations for stapling, booklet making, and center folding.

		Stapling	Booklet	Center Folding
Paper Size		A3 SEF, B4 SEF, A4 LEF, A4 SEF, B5 LEF, Letter LEF, Letter SEF, Folio SEF, Legal SEF, Ledger SEF, Executive LEF, Super B SEF	A3 SEF, B4 SEF, A4 SEF, Letter SEF, Folio SEF, Legal SEF, Ledger SEF	A3 SEF, B4 SEF, A4 SEF, Letter SEF, Folio SEF, Legal SEF, Ledger SEF
Leading Custom Edge		8.27 in. x 12.0 in. (210.0 mm - 304. 8mm)	8.27 in 12.0 in (210.0 mm - 304.8 mm)	
Size Side Edge		7.2 in 18.0 in. (182.0 mm - 457.2 mm)	11.0 in - 1 (279.4 mm - 4	
Paper Weight		17 - 41 lb. (64 - 157 g/m ²)		
Number	of Sheets	50 Max.	16 Max.	3 Max.
Thickness		5.0 mm Max	1.8 mm Max.	0.3 mm Max

NOTE:

Booklet and Center Fold are available only with the optional Booklet Maker Finisher.

Paper Handling 3-27

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Finisher Adjustment

See Appendix D for instructions on adjusting the Finisher stapling and folding position

Setting the Color Control

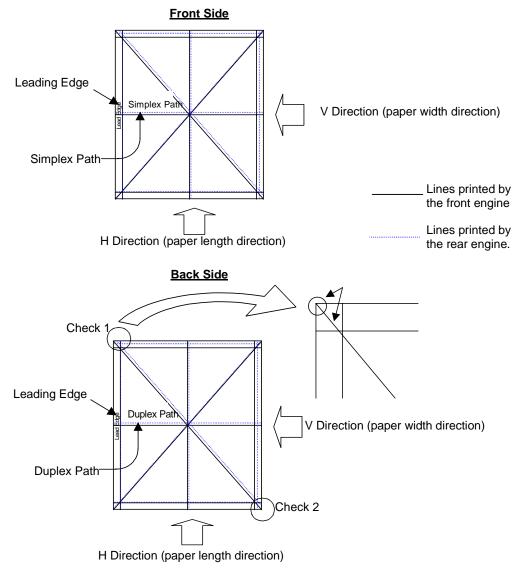
Due to shrinkage that can occur during the fusing process, the image size may need to be adjusted between the front and rear printer. Follow the instructions below to adjust image size. For additional information refer to page 2-12.

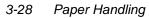
Cross Pattern

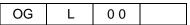
1. Make the following selections from the OCP:

Printer / Paper Source / Color Control / Tray Number / H Direction / Duplex / Cross Pattern

2. When the ten-key screen is displayed, enter "1" and press enter (■). The printer will print a Cross Pattern page as shown below.







Front Side/Front Engine

The reduction value for the Front Side/Front Engine should remain at 0% because there is no paper shrinkage.Front Side/Rear Engine. Compare the lines printed by the front and rear engine. If the lines printed by the rear engine do not align with the lines printed by the front engine, perform the following steps.

1. For Vertical line adjustment make the following selections from the OCP:

Printer / Paper Source / Color Control / Tray # / V Direction / Duplex / R: Front Side

- **2.** Select the desired value and press (\blacksquare).
- **3.** For Horizontal line adjustment make the following selections from the OCP:

Printer / Paper Source / Color Control / Tray # / H Direction / Duplex / R: Front Side

- **4.** Select the desired value and press enter (\blacksquare).
- **5.** Print another Cross Pattern to verify the adjustment. If further adjustment is necessary repeat Steps 1 through 4 until alignment is achieved.

Back Side/Front Engine

Check the lines printed by the Front Engine. The line at the upper left corner should be almost square to the corner of the paper. (Refer to Check 1 on the Cross Pattern sample on page 3-28). If an adjustment is necessary perform the following steps:

1. Make the following selections from the OCP:

Printer / Paper Source / Color Control / Tray # / H Direction / Duplex / F: Back Side

2. Select the desired value and press enter (\blacksquare).

The line at the lower right corner should be almost square to the corner of the paper. (Refer to Check 2 on the Cross Pattern sample on page 3-28). If an adjustment is necessary perform the following steps:

1. Make the following selections from the OCP:

Printer / Paper Source / Color Control / Tray # / H Direction / Duplex / F: Back Side

2. Select the desired value and press enter (\blacksquare).

Printer / Paper Source / Color Control / Tray # / V Direction / Duplex / R Front Side

3. Select the desired value and press enter (\blacksquare).

Print another Cross Pattern to verify the adjustment. If further adjustment is necessary repeat Steps 1 through 4 until alignment is achieved

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Paper Handling 3-29

Back Side/Back Engine

Compare the lines printed by the front and rear engine. If the lines printed by the rear engine do not align with the lines printed by the front engine, perform the following steps.

1. For Vertical line adjustment make the following selections from the OCP:

Printer / Paper Source / Color Control / Tray # / V Direction / Duplex / R: Back Side

- **2.** Select the desired value and press enter (\blacksquare).
- **3.** For Horizontal line adjustment make the following selections from the OCP:

Printer / Paper Source / Color Control / Tray # / H Direction / Duplex / R: Back Side

- **4.** Select the desired value and press enter (\blacksquare).
- **5.** Print another Cross Pattern to verify the adjustment. If further adjustment is necessary repeat Steps 1 through 4 until alignment is achieved.



Paper Pattern

Each paper tray (except the MBT) can be preset with up to 16 different patterns (profiles) using the OCP. The settings include

- Paper Size
- Paper Type
- Paper Color
- Paper Weight
- Color Control
- Tray Adjust
- Detach Voltage
- H Positioning

All 16 patterns for all trays are set to default values and can be changed to suit your printing requirements. To view all registered patterns select *Reports / Paper Pattern* from the OCP.

Setting up your own patterns is a three stage process. First you create the pattern, then you register it, then you load it. For instructions on creating and registering you own pattern, start with "Create a Registered Pattern" below.

To use a default pattern, skip to "Load a Registered Pattern" on page 3-33.

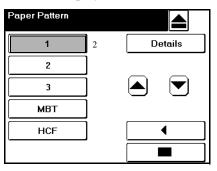
Paper Pattern (With Detach Voltage Support)

Create a Registered Pattern

1. From the OCP make the following selections:

Printer / Paper Source / Paper Pattern / Preset Load

The following screen is displayed.

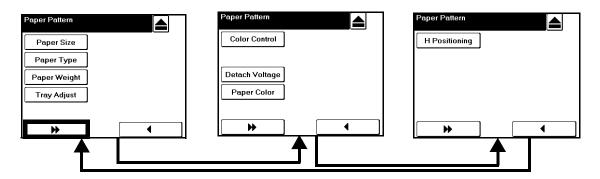


Select the desired Tray #. Use the ▲/▼ buttons to select the Pattern # (the example above shows Tray 1, Pattern 2 is selected).

Paper Handling 3-31



3. Press the Details button. The screen on the left is displayed.



4. Set the desired items (Paper Size, Paper Type, Paper Weight, Tray Adjust, etc.) as desired. Use the more (→) button to toggle between the screens.

NOTE:

Refer to page 3-23 for Tray Adjust instructions. Refer to page 3-28 for Color Control instructions. Refer to page 6-61 for Detach Voltage instructions. Refer to page 6-67 for H Positioning

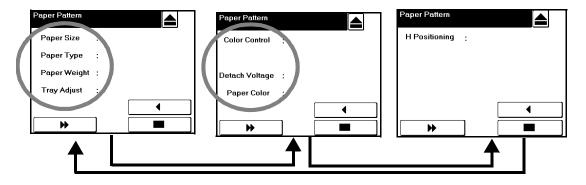
Register your pattern using the instructions below.

Registering a Paper Pattern

1. To register a paper pattern make the following selections from the OCP:

Printer / Paper Source / Paper Pattern / Preset Register / Tray # / Pattern

The display will appear like the samples below but will show the selected pattern settings on the right side of the display. Use the more (\blacktriangleright) button to toggle between the screens and verify all settings are correct.



Press enter (■) from either screen to register the pattern. The display will indicate Processing. When processing is complete press ▲ to return to the main menu.



Load the pattern using the instructions that follow.

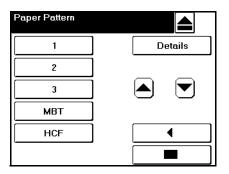
Load a Registered Pattern

To use a registered pattern perform the following steps:

1. From the OCP make the following selections:

Printer / Paper Source / Paper Pattern / Preset Load / Tray #.

The following screen is displayed.



Select the desired Tray #. Use the ▲/▼ buttons to select the Pattern #, then press enter (■).

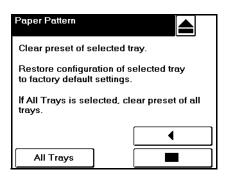
Clearing Preset Values

You can clear the preset values and return them to the default settings individually or all at once using the following steps.

1. From the OCP select

Printer / Paper Source / Paper Pattern / Preset Clear / Tray #.

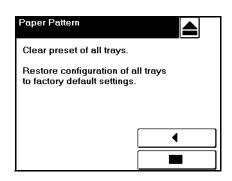
The following screen is displayed:



Paper Handling 3-33

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2. Press enter (■) to clear the selected tray, or press the All Trays button. The following screen is displayed:



3. Press enter (\blacksquare).



What This Chapter Provides

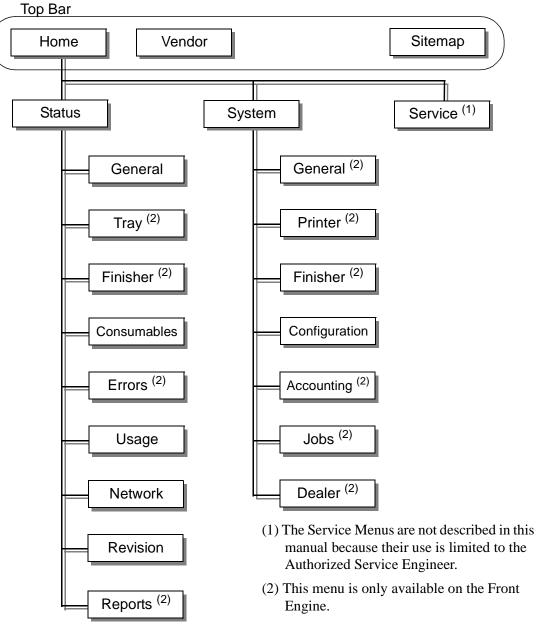
This chapter contains information on the following topics:

- Overview
- Access and Security
- Accessing the Web Utilities
- Status Options
- System Options
- <u>Using the Accounting File</u>

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Overview

The Web Utilities give you the power to access the printer through the Internet or your company's Intranet. You can use the Web Utilities to perform many functions, which are divided into three main areas: Status, System, and Service. The options available in each area are listed below.



The options available to you depend on the features installed on your system, so some of the options shown in this chapter may not be available to you. For example, if the Booklet Finisher is not installed on your system, any options and Web pages relating to the Booklet Finisher will not be displayed.

NOTE: Settings made with the Web Utilities override OCP settings.



Often, the status of an item is indicated with a colored button or graphic. Three colors are used throughout the Web Utilities to graphically display the status of various items.

- Green indicates a normal condition.
- Yellow indicates a warning condition (e.g., low paper, low toner, consumable near end of life).
- Red indicates an obstacle to printing, such as an empty condition, consumable at end of life, paper jam, or door open.

Access and Security

Not all Web Utilities are available to every type of user. Access to certain utilities is limited by a password. Passwords provide security to the System and Service areas of the system. The Web Utilities provide three levels of access: Status, System, and Service, which are described below.

Status Access

Access to the Status area of the system does not require a password. It allows the user to view all Status options and print Status, Summary, Demo, and font reports.

System Access

System access requires a password and enables the user to perform System functions. System functions include modifying the printer configuration, displaying all jobs in the system, and changing the system password. All user-accessible items are available as well.

Service Access

Service access requires a password and enables unrestricted access to the system. Service access allows you to display and modify the system configuration, counters, license keycode, and both system and service passwords. All user- and system-accessible items are available as well.

NOTES:

It is the responsibility of the servicing dealer and/or system administrator to set and secure passwords in the Web Utilities.

To access the System area, enter the User Name **system**. To access the Service area, enter the User Name **service**. The default password for both areas is blank and should be changed when the printer is installed.

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Accessing the Web Utilities

To access the Web Utilities, enter the IP address of the DDP Server in the address bar of your Internet browser. The DDP Server Home Page will be displayed.

	Queues	5					
DDP Server							
Queues and jobs Active jobs Finished jobs Archive Forms	Queue	Name Normal Hold	Type Print Hold	Status Running Hold	Job count 0 9	Print pages 0 42	Comment - -
RIP status Engine status Front engine Rear engine							
Help							
Log in/out Language							

Choose Front Engine or Rear Engine. The Home Page is the first page that will be displayed.



You can make a selection from the Home Page or wait 30 seconds for the Status-General page to be automatically displayed.

The three main areas of the system, Status, System, and Service, are discussed in the following pages.

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Status Options

Each of the options available under Status are described in the following table. Access to the Status options is not restricted by a password.

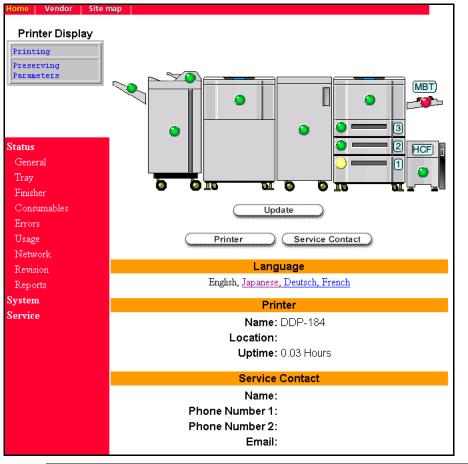
Option	Description
General	Displays printer configuration and status. Displays information on the printer, contact, language, printer location, printer name, and printer uptime.
Tray	Displays the size, type, color, and weight of the paper in each tray. Graphically displays the amount of paper in each tray. Links to paper source setup pages.
Finisher	Displays information on installed finishers. Depending on the finisher installed, the status of elements such as cover, stacker, and staple cartridges may be displayed.
Consumables	Displays the status of the toner, developer mix, fuser web, fuser unit, and drum unit.
Errors	Displays the error counts for the printer.
Usage	Displays paper usage information, toner coverage percentages, and preventative maintenance (PM) page counts. Displays page counts for all available paper sizes, for the current period and the life of the printer.
Network	Displays the MAC address, IP address, and subnet mask of the onboard network controller. If installed, this information is displayed for the Network Interface Card (NIC) as well.
Revision	Displays revision information for the engine firmware and controller software.
Reports	Lists all available reports as links. Reports include Status, Summary, Demo, PCL Directory, PCL Fonts, PostScript Directory, and PostScript Fonts reports. Prints the relevant report when the link is clicked.

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Status-General

The Status-General page displays the status of the print engine, paper trays, finisher, consumables, all installed options, and Service Contact information. It also allows you to select the desired language for your web pages.



NOTE:

Only the options that are installed will be displayed on the Status-General page.

A colored button is located on each part of the printer to graphically indicate the condition of the item.

- Green indicates a normal condition.
- Yellow indicates a warning condition (e.g., low paper, low toner, consumable near end of life).
- Red indicates an obstacle to printing, such as an empty condition, consumable at end of life, paper jam, or door open.

Click a button to display information on that part of the printer. For example, if you click on the MBT button, the Status-Tray page is displayed with detailed paper tray information.

This page refreshes automatically every 30 seconds. Optionally, you can click the Update button to refresh the display on demand.



Status-Tray

The Status-Tray page displays the status of the paper trays. For each paper tray, the size, type, color, and weight of the paper is noted. The amount of paper in each tray is graphically displayed in the far right column.

Click the paper source button (1, 2, 3, HCF or MBT) to set the desired paper size for each tray.

Printer Display			Sta	tus - Tray	
Ready	Ċ	1	2		
	Tray	Size	Туре	Color	Weight Amount
Status	1	A4 LEF 297x210	Plain	White	20 lb bond
General	2	A4 LEF 297x210	Plain	White	20 lb bond
Tray Finisher	3	Custom size	Plain	White	20 lb bond
Consumables Errors	мвт	Letter LEF 11x8.5	Plain	White	20 lb bond
Usage Network	HCF	A4 LEF 297x210	Plain	White	20 lb bond
Revision		Default Pa	per Sour	ce: AutoSelec	t
Reports System		Tray		Custon	n Paper Size
Service				inches	11.0
		3		8	3.5
			\subset	Update	

This page refreshes automatically every 30 seconds. Optionally, you can click the Update button to refresh the display on demand.

NOTE:

Some functions available from this page can only be accessed by users with the System or Service password.

Web	Utilities	4-7
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Status-Finisher

The Status-Finisher page displays the status of the finisher elements, such as the position of the cover, and the condition of the stacker and staple cartridges.

Printer Display	Status - Finisher	
Ready	Finisher Front Cover: Closed	۲
	Finisher Upper Cover: Closed	<u>.</u>
	Upper Tray Condition: Normal	۲
	Elevator Tray Condition: Normal	۵
	Front Staple Cartridge: Normal	۵
Status	Rear Staple Cartridge: Normal	۵
General	Check for Paper in Finisher: ^{No}	<u>a</u>
Tray	Finisher: NO	•
Finisher	(Update)	
Consumables	Opuate	
Errors		

A colored button graphically indicates the condition of each element.

- Green indicates a normal condition.
- Yellow indicates a warning condition (e.g., consumable near end of life).
- Red indicates an obstacle to printing, such as an empty condition, consumable at end of life, paper jam, or door open.

This page refreshes automatically every 30 seconds. Optionally, you can click the Update button to refresh the display on demand.



Status-Container Stacker

The Status-Finisher page for the Container Stacker option displays information on each stacker installed. For each stacker, the basket size and paper size is displayed. The amount of paper in each stacker is graphically displayed in the far right colum.

Printer Display	Status - Finisher					
Ready		Container	Stacker			
	Stacker	Stacker Basket Size Level				
	CS1 Lower	Short	UNKNOWN			
Status	CS1 Upper	Short	UNKNOWN			
General	CS2 Lower	Short	UNKNOWN			
Tray	CS2 Upper	Short	UNKNOWN			
Finisher Consumables						
Errors	Contai	ner Stacker 1 Top Cover: ^C	losed	۲		
Usage Network	Container Stacker 2 Top Cover: ^{Closed}					
Revision Reports	Container Stacker 1 V Path Cover:					
System Service	Container Stacker 2 V Path Cover: Closed					
	Container Stacker 1 Lower Closed					
	Container Stacker 1 Upper Front Cover: Closed					
	Container Stacker 2 Lower Front Cover: Closed					
	Container Sta	cker 2 Upper _C Front Cover: ^C	losed	۲		
		Upda	te			

This page refreshes automatically every 30 seconds. Optionally, you can click the Update button to refresh the display on demand.

Status-Consumables

The Status-Consumables page graphically displays the status of the printer consumables. This includes the status of the toner, developer mix, fuser web, fuser unit, and drum unit.

Printer Display	Status - Consumables		
Ready	Toner Color: Black		
	Toner: Normal 🛛 🕥		
	Developer Mix: Normal 🛛 🕥		
	Fuser Web: Normal 🛛 🌑		
	Fuser Unit: Normal 🛛 🕥		
Status	Drum Unit: Normal 🛛 🌑 🎱		
General Tray	Update		

A colored button graphically indicates the condition of each element.

- Green indicates a normal condition.
- Yellow indicates a warning condition (e.g., low toner, consumable near end of life).

Consumable	Yellow Condition Approximate Page Count Remaining		
Toner*	Less than 1,800		
Developer Mix**	8,000		
Fuser Web	10,000		
Fuser Unit	10,000		
Drum Unit	8,000		
* Based on 4% coverage.			
** Based on 80% drum rotations with actual printing.			

 Red indicates an obstacle to printing, such as an empty condition, consumable at end of life, paper jam, or door open.

Optionally, you can click the Update button to refresh the display on demand.

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Status-Errors

The Status-Errors page displays the error counts for the printer. This information is useful to Service and Technical Support personnel.

Printer Display	Status - Errors		
Ready	Total Error Count: 4 Error Count of This Period: 40 Error Count of Last 1000p: 7		
Status	Update		

Optionally, you can click the Update button to refresh the display on demand.

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Status-Usage

The Status-Usage page displays the number of pages left before the next preventative maintenance (PM) service, as well as Toner Coverage^{*1} or Click Charge Count^{*2} and paper usage information.

The Current Period value is increased when a page is printed. The Lifetime value is increased when the engine picks up a paper from an input tray.

The Paper Usage is available only front engine.

This page refreshes automatically every 60 seconds. Optionally, you can click the Update button to refresh the display on demand.

Printer Display	S	tatus - Usage		
Ready	PM Due In: 400000 Pages			
	То	ner Coverage		
	Last Docu	ment: 0.00 %		
	This Po	eriod: 1.68 %		
		eriod: 0.00 %		
Status	Last Three Per	r iods: 2.04 %		
General		aper Usage		
Tray		aper Usage		
Finisher	ltem	Current Period	Lifetime	
Consumables _	Total Sheets	0	441384	
Errors	Total Sides	0	613709	
Usage				
Network Revision	Paper Size	Current Period	Total Pick Sheets	
Reports	A3 SEF (297x420)	0	22024	
System	A4 LEF (297x210)	0	168874	
Service	A4 SEF (210x297)	0	10362	
	A4 Tab LEF (297x225)	0	475	
	A5 SEF (149x210)	0	452	
	B4 SEF (257x364)	0	12369	
	B5 LEF (257x182)	0	9809	
	Folio SEF (8.5x13)	0	308	
	Ledger SEF (11x17)	0	9858	
	Legal SEF (8.5x14)	0	5456	
	Letter LEF (11x8.5)	0	198248	
	Letter SEF (8.5x11)	0	939	
	Letter Tab LEF (11x9)	0	221	
	Super B SEF (12x18)	0	238	
	Custom (*)	0	1751	
	(*) Statement and I	Executive are included	in Custom.	

*1: This menu is displayed when the Click Charge is not supported or when the Click Charge is supported and [Service]-[Click Charge]-[Page Click]=All.

*2: This menu is displayed when the Click Charge is supported and [Service]-[Click Charge]-[Page Click]=Validated.

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Status-Network

The Status-Network page displays the current network address information.

- MAC Address Current information is displayed. This address cannot be changed.
- IP Address Current information is displayed. This address can be changed using the System Configuration page. (Network Administrator or Service Technician only).
- Subnet Mask Current information is displayed. This address can be changed using the System Configuration page. (Network Administrator or Service Technician only).

Printer Display	Status - Network
Ready	
	MAC Address:00:06:FB:00:01:BF
	IP Address: 10.204.81.27
	Subnet Mask: 255.255.255.0

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Status-Revision

The Status-Revision page displays revision information for each installed component of the printer (e.g., engine firmware and controller software). This information is useful to Service and Technical Support personnel.

Printer Display	Status - Rev	ision
Toner Collector Not Set	Component	Revision
Check Toner Bottle	Engine Firmware	3728/3825
(F) EOID	Controller Software	DDP184 1.0 et028



Status-Reports

The Status-Reports page displays all available printer reports as links. If the PostScript option is not installed on your system, the PostScript reports are not displayed. Simply click on the desired report to print it.

Printer Display	Status - Reports
Ready	<u>Status Page:</u> System Configuration <u>Summary Page:</u> System Summary report <u>Demo Page:</u> Printer demonstration <u>PCL Directory:</u> Files in the PCL Directory <u>Paper Pattern:</u> Paper Pattern list

NOTE: This page is not available during a print job.

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System Options

Each of the options available under System are described in the following table. You must have the System password to access or update these Web pages.

NOTES:

It is the responsibility of the servicing dealer and/or system administrator to set and secure passwords in the Web Utilities.

To access the System area, enter the User Name **system**. The default password is blank and should be changed when the printer is installed.

Option	Description
General	Displays the customer name, mailing address, printer name, printer location, and service contact information.
Printer	Displays the paper size, type, weight, and tray adjust information for the selected paper source. If installed, PostScript parameters can be displayed and modified.
Finisher	Provides access to the Finisher Web pages for any installed finishers. Depending on the finisher installed on your system, the pages may include access to staple, inserter tray, and other options.
Configuration	Items under System-Configuration include changing the system password, resetting the system, modifying parallel port settings, and entering network configuration information. Some of the network web pages are only available when the optional Network Interface Card is installed.
Accounting	Displays accounting information such as page counts, toner coverage and billing data. Also lists all paper sizes with current period and lifetime counts for each. Optionally, the accounting reports can be downloaded to your computer.
Jobs	Displays all jobs in the system. Jobs can monitored or cancelled from this page.
Dealer	Displays the dealer's name and mailing address.



System-General

The System-General page displays customer, printer, and service contact information. The printer and service contact information you enter here is displayed on the Status-General page which is available to all users.

After making the desired changes, click Submit to update the settings.

Printer Display	Syst	em - General
Ready	(Customer
	Name	
	Mailing Address Line 1	
	Mailing Address Line 2	
		D • •
Status		Printer
System	Name	DDP-184
General Printer	Location	
Finisher Configuration	Service Contact	
Accounting	Name	
Jobs	Phone Number 1	
Dealer	Phone Number 2	
Service	Email	
	·	Submit

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Web Utilities 4-17

System-Printer

Paper Source

The Paper Source page displays the paper size, paper type, paper color, paper weight, and tray adjust information for the selected paper source.

To select a paper source, click on 1, 2, 3, HCF, or MBT near the top of the page. The selected paper source is highlighted in yellow. For instructions on custom paper sizes and adjusting the trays, see "Setting the Custom Paper Size Values" on page 3-22 and "Setting the Tray Adjust Values" on page 3-23.

The settings on this page reflect what is set on the Operator Control Panel. If you make changes to this page and click the Submit button, the changes will be reflected on the Operator Control Panel.

Printer Display		System - Printer		
Ready Options				
		2 3 HCF MBT		
Status		Tray 1		
System	Paper Size	A4 LEF 297x210 💌		
General	Paper Type	Plain 💌		
Printer	Paper Color	White		
Finisher	Paper Weight	75 g/m2 💌		
Configuration Accounting Jobs Dealer Service	Custom Size	inches 11 8.5 Image: Constraint of the second sec		
	Tray Adjust	Front 0 Back 0 Front 0 Back 0		
	Su	bmit Paper Pattern		

NOTE:

The Paper Pattern button shown on this sample page is currently not available. It will be available in a future release.

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Paper Pattern

The Paper Pattern page displays the paper size, paper type, paper color, paper weight, paper position, color control, H positioning, and detach voltage. It also gives you access to the current values.

Printer Display		System - Print	er (Paper Patterr)			
Ready Select Pattern 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16							
Current Select Pattern No NONE Clear							
		Tray 1		Pattern 1			
	Pa	Paper Size		Letter LEF 11x8.5			
		Paper Type		Plain			
Status		Paper Color		White			
	Pap	er Weight	75 gmm	75 gmm			
System	Custom Size	X	*****	*****			
General		Y	*****	*****			
Printer		X Front	0.00 inches	0.00 inches			
Finisher	Tray Adjust	X Back	0.00 inches	0.00 inches			
Configuration		Y Front	0.00 inches	0.00 inches			
		Y Back	0.00 inches	0.00 inches			
Accounting		Simplex R:Front Side	0.12%	0.12%			
Jobs	Color Control	Duplex F:Front Side	0.00%	0.00%			
Dealer	H Direction	Duplex F:Back Side	0.00%	0.00% 0.12%			
Service		Duplex R:Front Side Duplex R:Back Side	0.12%	0.12%			
		Simplex R:Front Side	0.12%	0.12%			
		Duplex F:Front Side	0.00%	0.00%			
	Color Control	Duplex F:Back Side	0.00%	0.00%			
	V Direction	Duplex R:Front Side	0.12%	0.12%			
		Duplex R:Back Side	0.12%	0.12%			
		Positioning	Enable	Enable			
	H Positioning	Skew Detect	Enable	Enable			
		PWM1	144	144			
	Detach Voltage	PWM2	144	144			
	Front Engine	PWM3	144	144			
		PVVM4	144	144			
		PVVM1	144	144			
	Detach Voltage	PWM2	144	144			
	Rear Engine	PVVM3	144	144			
		PWM4	144	144			
		Setting Back					

Options

The Options page displays additional printer parameters.

Printer Display	Syst	System - Printer				
Ready	eady Paper Source Options					
		N				
Status	Options					
System	Exit Jam Recovery	Enable				
General	Wait Timeout (0 - 999)	0 sec				
Printer						



System-Finisher

When the Advanced Finisher is attached, the following page is displayed when System Finisher is selected. This page indicates that printing will stop when the Advanced Finisher runs out of staples during a staple job. There is no user input for this page.

Printer Display	System - Finisher		
	Stapler - Advanced Finisher		
Status System General Printer	When the staple out error is occurred, this printer stop printing.		

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Inserter

The Inserter page provides information on the paper in the Booklet Finisher inserter tray, such as the paper size, and weight. From this page you can also enter custom paper size settings.

After making any desired changes, click Submit to update the settings.

Printer Display	System - Finisher				
		Stapler Folder	Stapler Error		
Status	Inserter				
System	Paper Size	Letter LEF 11x8.5 💌			
General	Paper Weight	75 g/m2 💌			
Printer		inches 💌	11		
Finisher Configuration Accounting Jobs	Custom Size	8.5			
Dealer Service		submit			



Stapler

The Stapler page lets you modify the stapling position for booklets created with the Booklet Finisher. After making any desired changes, click Submit to update the setting.

Printer Display	System - Finisher				
Ready	Inserter	Stapler C	Folder Stapler Error		
		Stapler Adjust	tment		
Status	Letter SEF		+ v 0 mm		
System General Printer Finisher	B4 SEF		+ v 0 mm		
Configuration Accounting Jobs	A4 SEF		+ • 0 mm		
Dealer Service	A3 SEF		+ v 0 mm		
	Legal SEF		+ • 0 mm		
	Ledger SEF		+ v 0 mm		
	Others SEF		+ • 0 mm		
		submit			

Folder

The Folder page lets you modify the folding position for booklets created with the Booklet Finisher. After making any desired changes, click Submit to update the setting.

Printer Display	System - Finisher				
Ready	Inserter	Stapler	Folder Stapler Error		
		Folder Adjus	tment		
Status	Letter SEF		+ 💌 🛛 mm		
System General Printer Finisher	B4 SEF		+ v 0 mm		
Configuration Accounting Jobs	A4 SEF		+ 💌 0 mm		
Dealer Service	A3 SEF		+ 💌 0 mm		
	Legal SEF		+ 💌 0 mm		
	Ledger SEF		+ 💌 0 mm		
	Others SEF		+ 💌 0 mm		
		submit			

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System-Configuration

Password

The System-Configuration Password page lets you modify the system password. After filling in the required information, click Submit to update the password.

Printer Display Ready	System - Configuration Password Calendar Misc. Network
Status System	System Password Modify System Password
General Printer	Enter new password (0 - 65535)
Finisher Configuration Accounting	Confirm new password Submit

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Web Utilities 4-25

Calendar

The Calendar page lets you view or modify the system date and time information. To modify any of these settings, make the desired changes, and click Submit to update the settings.

Printer Display	System - Configuration					
Ready	Password Calendar Misc.					
	Network					
	Calendar					
Status	Time Zone					
System						
General	GMT					
Printer	Devilet Oewing Time					
Finisher	Daylight Saving Time					
Configuration	Use Daylight Saving Time					
Accounting	Change Daylight Saving Time Dates					
Jobs	Transition Month Day Hour					
Dealer	Start with 3 • 1 • 2 •					
Service	End with 10 1 1 2 1					
	Date & Time					
	□ Change date/time now					
	Year Month Day Hour Min					
	2005 4 27 19 12					
	Submit					

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Misc.

Г

The Misc. page allows you to view or modify the Energy Save Time, Country Code settings and Sample Print Forced 184 Mode, After making the desired change, click Submit to update the setting.

Printer Display	System - Configuration Password Calendar Misc.				
	MISC				
Status	Energy Save Time (5 - 230) 15	minutes			
System	Country Code				
General	Sample Print Disat	ole 🔽			
Printer Finisher	Forced 184 Mode Disat	ole 🔻			
Configuration Accounting	Submit				

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Web Utilities 4-27

Network.

The System-Configuration Network page allows you view and modify the configuration setting for the onboard network controller. After making any desired changes, click Submit to update the settings.

Printer Display Ready	System - Configuration Password Calendar Misc. Network Output Output					
	тс	:P/IP				
Status	IP Address	10.204.81.27				
System	Subnet Mask	255.255.255.0				
General	Gateway Address	0.0.0.0				
Printer Finisher	Boot Method (*)	STATIC -				
Configuration Accounting	HTTP Port (0 - 65535) (*)	80				
Jobs Dealer Service		to activate modification. Ibmit				



System-Accounting

The System-Accounting page displays detailed accounting information that you can use to monitor and control your printer resources.

NOTE:

The data shown on the Accounting file relates to the selected engine only (Front or Rear).

ter Display		Syst	em - Accoun	ting	
		PM Du	i e in: 400000 I	Pages	
		Ac	counting Fil	e	
	Period	Closi	ng at	Size	Download
	Current	Next 1, tir	ne is 00:00.	384() 👔
			04 16:26:38		
	Last		2005	93:	2
al	Prev1		ON APR 04 58:12 2005	25154	4
	Prev2	(*) M	ON APR 04	93:	
r uration	11042	16:	58:12 2005	35.	-
itine	((*) Last modifi	ed date of the a	ccounting fi	le.
		То	ner Coverag	e	
		Last Docu	ment: 0.00 %		
			eriod: 1.68 %		
			eriod: 0.00 %		
	Las	st Three Pei	riods: 2.04 %		
		F	aper Usage		
		m	Current Per		Lifetime
	Total Shee			0	441384
	Total Sides	S		0	613709
	Dana	r Size	Current Per	ind T	otal Pick
		r Size	Current Per	100	Sheets
	A3 SEF (29)7x420)	Current Per	0	Sheets 22024
	A3 SEF (29 A4 LEF (29	97x420) 97x210)	Current Per	0	Sheets 22024 168874
	A3 SEF (29 A4 LEF (29 A4 SEF (21	97x420) 97x210) 10x297)	Current Per	0	Sheets 22024
	A3 SEF (29 A4 LEF (29	97x420) 97x210) 10x297)	Current Per	0	Sheets 22024 168874
	A3 SEF (29 A4 LEF (29 A4 SEF (21 A4 SEF (21	97x420) 97x210) 10x297) F	Current Per		Sheets 22024 168874 10362
	A3 SEF (29 A4 LEF (29 A4 SEF (21 A4 Tab LE (297x225)	07x420) 07x210) 10x297) F 19x210)	Current Per	0 0 0 0	Sheets 22024 168874 10362 475
	A3 SEF (29 A4 LEF (29 A4 SEF (21 A4 Tab LE (297x225) A5 SEF (14	97x420) 97x210) 10x297) F 19x210) 57x364)	Current Per	10d 0 0 0 0	Sheets 22024 168874 10362 475 452
	A3 SEF (29 A4 LEF (29 A4 SEF (21 A4 Tab LE (297x225) A5 SEF (14 B4 SEF (25	97x420) 17x210) 10x297) F 19x210) 57x364) 57x364) 57x182)	Current Per	100 0 0 0 0 0 0	Sheets 22024 168874 10362 475 452 12369
	A3 SEF (29 A4 LEF (29 A4 SEF (21 A4 Tab LE (297x225) A5 SEF (14 B4 SEF (25 B5 LEF (25	97x420) 17x210) 10x297) F 19x210) 57x364) 57x364) 57x182) (8.5x13)	Current Per	10d 0 0 0 0 0 0 0 0 0 0	Sheets 22024 168874 10362 475 452 12369 9809
	A3 SEF (29 A4 LEF (29 A4 SEF (21 A4 Tab LE (297x225) A5 SEF (14 B4 SEF (25 B5 LEF (25 Folio SEF	97x420) 17x210) 10x297) F 19x210) 57x364) 57x182) (8.5x13) F (11x17)	Current Per	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sheets 22024 168874 10362 475 452 12369 9809 308 9858 5456
	A3 SEF (29 A4 LEF (29 A4 SEF (21 A4 Tab LE (297x225) A5 SEF (14 B4 SEF (25 B5 LEF (25 Folio SEF Ledger SE Legal SEF Letter LEF	97x420) 97x210) 97x210) 90x297) F 99x210) 57x364) 57x364) 57x182) (8.5x13) F (11x17) (8.5x14) (11x8.5)	Current Per	Iod	Sheets 22024 168874 10362 475 452 12369 9809 9809 308 9858 5456 198248
	A3 SEF (29 A4 LEF (29 A4 SEF (21 A4 Tab LE (297x225) A5 SEF (14 B4 SEF (25 B5 LEF (25 Folio SEF Ledger SE Legal SEF Letter LEF Letter SEF	97x420) 97x210) 97x210) 90x297) F 99x210) 57x364) 57x182) (8.5x13) F (11x17) (8.5x14) (11x8.5) (8.5x11)	Current Per	Iod 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sheets 22024 168874 10362 475 452 12369 9809 308 9858 5456 198248 939
	A3 SEF (29 A4 LEF (29 A4 SEF (21 A4 Tab LE (297x225) A5 SEF (14 B4 SEF (25 B5 LEF (25 Folio SEF Ledger SE Letter LEF Letter SEF Letter Tab	97x420) 97x210) 97x210) 90x297) F 99x210) 57x364) 57x182) (8.5x13) F (11x17) (8.5x14) (11x8.5) (8.5x11) LEF (11x9)	Current Per	Iod 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sheets 22024 168874 10362 475 452 12369 9809 308 9858 5456 198248 939 221
	A3 SEF (29 A4 LEF (29 A4 SEF (21 A4 Tab LE (297x225) A5 SEF (14 B4 SEF (25 B5 LEF (25 Folio SEF Ledger SE Legal SEF Letter LEF Letter SEF	97x420) 97x210) 97x210) 90x297) F 99x210) 57x364) 57x182) (8.5x13) F (11x17) (8.5x14) (11x8.5) (8.5x11) LEF (11x9) EF (12x18)	Current Per	Iod 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sheets 22024 168874 10362 475 452 12369 9809 308 9858 5456 198248 939



The accounting information displayed on the web page includes:

- the number of pages left before the next PM service
- the closing date of the period
- the percent of toner coverage for the last printed document, the current billing period, and the last three billing periods

NOTE:

Toner coverage data may be disabled at your installation. See your Service Technician if you need additional information.

 current period and lifetime counts for all paper sizes. (The Current Period value is increased when a page is printed. The Lifetime value is increased when the engine picks up a paper from an input tray.)

For details on accessing and using the accounting information, refer to "Using the Accounting File" on page 4-33.



System-Jobs

The System-Jobs page displays all of the jobs in the system. For each job, all available information is displayed.

Jobs can be monitored or cancelled from this page. To cancel a job, simply check the box in the Select column for the job(s) you want to cancel and click Submit. Click Update to refresh the display.

Printer Display	System - Jobs					
Ready	Select Document	Copy Page (*)	User	Time	Status (**)	
		No Job in	the system			
Status System General		Cancel Sele Submit	cted Jobs ▼ Clear			
Printer Finisher Configuration Accounting Jobs	(*) Upper: RIP comple (**) C:	Cancel, P: Paus This color indi	-	ocessing)	age count	

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System-Dealer

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The System-Dealer page contains the dealer's name and addresses. Additional information can be entered in the Message Line text boxes. The information entered here is displayed on the Vendor page which is available to all users.

Printer Display	Sys	tem - Dealer
Ready	Name	
	Mailing Address Line 1	
Status	Mailing Address Line 2	
System	Email	
General Printer	Web Site 1	
Finisher	Web Site 2	
Configuration	Web Site 3	
Accounting Jobs	Message Line 1	
Dealer	Message Line 2	
Service	Message Line 3	
	Message Line 4	
	Message Line 5	
		Submit

Using the Accounting File

The accounting file contains detailed usage information that you can use to monitor and control your printer resources. The file contains precise usage data that gives you the power to calculate accurate and timely usage data on your printer supplies and service.

NOTE:

The data shown on the Accounting file relates to the selected engine only (Front or Rear).

Printer Display		Syst	em - Account	ting	
Ready	PM Due In: 400000 Pages Accounting File				
	Period	Closi	ng at	Size	Download
	Current	Next 1, tir	ne is 00:00.	3840) 👔
Status	Last	MON APR (04 16:26:38	932	2
System	Prev1	(*) M	2005 ON APR 04	0545	
General Printer	FIEVI		58:12 2005	25154	
Finisher	Prev2		ON APR 04 58:12 2005	932	2
Configuration Accounting		(*) Last modifi	ed date of the a	ccounting fi	le.
Jobs		То	ner Coverag	e	
Dealer		Last Docu	ment: 0.00 %		
ervice		This Pe	eriod: 1.68 %		
		Last Pe	eriod: 0.00 %		
	La	st Three Per	riods: 2.04 %		
		F	aper Usage		
	lte	em	Current Per	iod	Lifetime
	Total Shee	ets		0	441384
	Total Side	S		0	613709
	Pape	er Size	Current Per	iod T	otal Pick
			Current Per	IOD	Sheets
	A3 SEF (29	97x420)	Current Per	iod	Sheets 22024
	A3 SEF (29 A4 LEF (29	97x420) 97x210)	Current Per		Sheets
	A3 SEF (29 A4 LEF (29 A4 SEF (27 A4 SEF (27	97x420) 97x210) 10x297)	Current Per	0	Sheets 22024 168874
	A3 SEF (29 A4 LEF (29 A4 SEF (2' A4 Tab LE (297x225)	97x420) 97x210) 10x297) F	Current Per	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sheets 22024 168874 10362
	A3 SEF (25 A4 LEF (25 A4 SEF (2' A4 Tab LE (297x225) A5 SEF (14	97x420) 97x210) 10x297) F 49x210)	Current Per	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sheets 22024 168874 10362 475
	A3 SEF (29 A4 LEF (29 A4 SEF (2' A4 Tab LE (297x225)	97x420) 97x210) 10x297) F 49x210) 57x364)	Current Per		Sheets 22024 168874 10362 475 452
	A3 SEF (29 A4 LEF (29 A4 SEF (2' A4 Tab LE (297x225) A5 SEF (14 B4 SEF (20	97x420) 97x210) 10x297) F 49x210) 57x364) 57x182)	Current Per	IOG 0 0 0 0 0 0 0	Sheets 22024 168874 10362 475 452 12369
	A3 SEF (29 A4 LEF (29 A4 SEF (27 A4 Tab LE (297x225) A5 SEF (14 B4 SEF (20 B5 LEF (20	97x420) 97x210) 10x297) F 49x210) 57x364) 57x182) (8.5x13)	Current Per	IOG	Sheets 22024 168874 10362 475 452 12369 9809
	A3 SEF (29 A4 LEF (29 A4 SEF (27 A4 Tab LE (297x225) A5 SEF (14 B4 SEF (20 B5 LEF (20 Folio SEF	97x420) 97x210) 10x297) F 49x210) 57x364) 57x182) (8.5x13) F (11x17)	Current Per	IOG	Sheets 22024 168874 10362 475 452 12369 9809 308
	A3 SEF (29 A4 LEF (29 A4 SEF (27 A4 Tab LE (297x225) A5 SEF (14 B4 SEF (20 B5 LEF (20 Folio SEF Ledger SE	97x420) 97x210) 10x297) F 49x210) 57x364) 57x182) (8.5x13) F (11x17) (8.5x14)	Current Per	Iod - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	Sheets 22024 168874 10362 475 452 12369 9809 308 9858
	A3 SEF (25 A4 LEF (25 A4 SEF (2' A4 Tab LE (297x225) A5 SEF (14 B4 SEF (20 B5 LEF (20 Folio SEF Ledger SE Legal SEF	97x420) 97x210) 10x297) F 49x210) 57x364) 57x364) 57x182) (8.5x13) F (11x17) (8.5x14) (11x8.5)	Current Per	Iod - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	Sheets 22024 168874 10362 475 12369 9809 308 9858 5456
	A3 SEF (25 A4 LEF (25 A4 SEF (2' A4 Tab LE (297x225)) A5 SEF (14 B4 SEF (20 B5 LEF (20 Folio SEF Ledger SE Legal SEF Letter LEF Letter SEF	97x420) 97x210) 10x297) F 49x210) 57x364) 57x364) 57x182) (8.5x13) F (11x17) (8.5x14) (11x8.5)	Current Per	Iod	Sheets 22024 168874 10362 475 452 12369 9809 308 9858 5456 198248 939 221
	A3 SEF (25 A4 LEF (25 A4 SEF (2' A4 Tab LE (297x225)) A5 SEF (14 B4 SEF (20 B5 LEF (20 Folio SEF Ledger SE Legal SEF Letter LEF Letter SEF Letter Tab	97x420) 97x210) 10x297) F 49x210) 57x364) 57x182) (8.5x13) F (11x17) (8.5x14) (11x8.5) F (8.5x11)	Current Per	Iod 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sheets 22024 168874 10362 475 452 12369 9809 308 9858 5456 198248 939



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With the Web Utilities, authorized users have quick and easy access to the information in the accounting file. Follow the instructions on page 4-4 to access the Web Utilities.

The System-Accounting web page, shown above, displays actual usage information for the latest job and for specific time periods. Authorized users can monitor paper and toner usage, as well as the number of pages left in the current PM cycle. The web page also displays comprehensive totals of current period counts and lifetime counts for all paper sizes, as well as the total number of sheets and total number of sides printed.

NOTE:

Toner coverage data may be disabled at your installation. See your Service Technician if you need additional information.

You can also download the accounting file to your desktop computer. The file is ideal for use in accounting programs to track and control printing resources.

The accounting file is updated each time a job enters the system. First, a detailed accounting record is created for each job. Then the accounting record is saved in the accounting file on the printer's hard drive. The file is in comma-delimited (.csv) format and can be imported into Excel or any accounting package that supports comma-delimited or ASCII formats.

To download the file, right-click on the icon (if you are using Internet Explorer) in the Download column and save the file with a new name in a new location.

The sample below shows the accounting file imported into an Excel worksheet. The fields in the accounting file are described on page 4-36.

	File Edit Vi	ew Insert Fo	ormat Too	s Data Win	dow Heip						
0	688) # D. :	× X G		11	r≈ 2↓ 100	2 ° A	rial	• 1	0 - B	I
-	A1	• =	Second Street, Square, Squ			41					
	A	В	C	D	E	E	G	Ħ	1	J	
1	Job Id	Record Ve S	Status	Session Id	Channel S	VPT	PDL Source	File Size	User Name	Document	P
2							1. 1. 1				
3	78	5	0	16		0	PCL 5e	33233249	Miranda W	Microsoft '	Ŵ.
4	6	5	0	2	 1 	0	PCL 5e	33233249	Miranda W	Microsoft Y	Ý.
5	12	5	0	2	্	0	PCL 5e	33233249	Miranda W	Microsoft '	Ŷ
6	18	5	0		1	0	PCL 5e	33233249	Miranda W	Microsoft \	V
7	5	5	٥	2	1	1	PostScript	67556	192.215.76	Test Page	
8	11	5	0	3	1	0	PCL 5e	29232	Jesse D'Ar	Test Page	¢.
9	18	5	0	4	া	0	PCL 5e		Jesse D'Ar		
10	27	5	0	7	S.	<u></u>	PostScript	35581	Luke Austi	Test Page	1
11	38	5	۵	10		0	PCL 5e	28992	Luke Aust	Test Page	1
12	49	5	0	13	 	0	PCL 5e	28992	192.215.76	Test Page	
13	53	5	0	14	3	255	PCL 5e	12980		Status Pa	Ę
14	56	5	0		3	255	PCL 5e	2588		Summary	
15	9	5	D	4	1	1	PostScript	35586	192.215.76	Test Page	P.
16	20	5	0	7	1	0	PCL 5e	28997	192.215.76	Test Page	c
17	29	5	0	10	া	া	PostScript	7067	192.215.78	Test Page	
18	38	5	0	13	<u>ः</u>	0	PostScript	7069	192.215.78	Test Page	5
19	43	5	Π	14	1	199	PostScript	42358	Miranda W	Microsoft \	Ŵ

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Printer Display	Job Id, Record Version, Status, Session Id, Channel Source, VPT, PDL Source, Fil
Ready	78,5,0,16,1,0,PCL 5e,33233249,,"Microsoft Word - LED 176_dibsww07.doc",0, 6,5,0,2,1,0,PCL 5e,33233249,,"Microsoft Word - LED 176_dibsww07.doc",0,17 12,5,0,3,1,0,PCL 5e,33233249,,"Microsoft Word - LED 176_dibsww07.doc",0,1 18,5,0,4,1,0,PCL 5e,33233249,,"Microsoft Word - LED 176_dibsww07.doc",0,1 5,5,0,2,1,1,PostScript,67556,192.215.76.52,Test Page,0,1,1,1,1, 2.41,"05/ 11,5,0,3,1,0,PCL 5e,29232,"Test Page",0,1,1,1,1, 2.65,"05/01/2001","10:5 18,5,0,4,1,0,PCL 5e,29232,192.215.76.52,Test Page,0,1,1,1,1, 2.65,"05/01/
	27,5,0,7,1,1,PostScript,35581,192.215.76.52,Test Page,0,1,1,1,1, 2.69,"05
Status	38,5,0,10,1,0,PCL 5e,28992,192.215.76.52,Test Page,0,1,1,1,1, 2.62,"05/01
System	49,5,0,13,1,0,PCL 5e,28992,192.215.76.52,Test Page,0,1,1,1,1, 2.62,"05/01
General	53,5,0,14,3,255,PCL 5e,12980,,"Status Page",0,3,3,1,3, 1.57,"05/01/2001", 56,5,0,15,3,255,PCL 5e,2588,,"Summary Page",0,1,1,1,1, 2.24,"05/01/2001",
Printer	9,5,0,4,1,1,PostScript,35586,192.215.76.52,Test Page,0,1,1,1,1, 2.70,"05/
Finisher	20,5,0,7,1,0,PCL 5e,28997,192.215.76.52,Test Page,0,1,1,1,1,1, 2.63,"05/01/
Configuration	29,5,0,10,1,1,PostScript,7067,192.215.76.52,Test Page,0,1,1,1,1,1, 1.10,"05 38,5,0,13,1,0,PostScript,7069,192.215.76.52,Test Page,0,1,1,1,1, 1.11,"05
Accounting	43,5,0,14,1,1,PostScript,42358,Gary Silva,Microsoft Word - WW2K1121.DOC,0
Jobs	48,5,0,15,1,1,PostScript,43698,Gary Silva,Microsoft Word - WW2K2121.DOC,0
Dealer	53,5,0,16,1,1,PostScript,91748,Gary Silva,Microsoft Word - WW2K3121.DOC,0 58,5,0,17,1,1,PostScript,1590156,Gary Silva,Microsoft Word - WW2K4121.DOC
Service	 So, S, O, 17, J. 1, PostScript, 1350136, Gary Silva, Microsoft Word - WW2K5121.DOC S, O, 19, I, I, PostScript, 14768133, Gary Silva, Microsoft Word - WW2K5121.DOC 73, S, O, 20, 1, 1, PostScript, 1591165, Gary Silva, Microsoft Word - WW2K7122.DOC 74, S, O, 20, 1, 1, PostScript, 2920, Gary Silva, Microsoft Word - WW2K7122.DOC, 0, 75, S, O, 20, 1, 1, PostScript, 325720, Gary Silva, Microsoft Word - WW2K7122.DOC, 78, S, O, 21, 1, PostScript, 3473213, Gary Silva, Microsoft Word - WW2K7122.DOC, 78, S, O, 21, 1, 1, PostScript, 3473213, Gary Silva, Microsoft Word - WW2K7122.DOC

If you click (or double-click, depending on your browser) on the icon in the Download column, the accounting file is displayed on the web page without any formatting.

Fields in the Accounting Record

Field Name	Description
Job Id	Internal ID.
Record Version	Accounting file format version.
	0 Completed
Status	2 Canceled
Session Id	Internal ID.
	0 Parallel channel.
Channel Source	1 Network I/F
	3 Offline Printing (Status Page, Test Print, etc.)
VIDT	0 vp-pcl
VPT	255 Default Channel (Offline Printing)
PDL Source	Postscript, etc.
File Size	File size in bytes.
User Name	User name.
Document Name	Document name.
Priority	Reserved.
Completed Sides	Completed side count.
PDL Sides	Expected side count.
Total Sets	Number of sets in the job.
Total Sheets	Number of paper sheets used.
Added Sides	Number of back sides generated for simplex pages (Duplex-Always mode only).
Toner Coverage	Average toner coverage. (May be disabled at your installation. See your Service Technician for additional information.)
Date Created	Date of record creation.
Time Created	Time of record creation (i.e., end of job).
Duration	Duration of job in seconds (from start of job to Time Created).
	0 A5 SEF.
	2 SuperB.
	3 B5 LEF.
	4 Letter SEF.
	5 Letter LEF.
	6 B4 SEF.
	7 A4 Tab stock. 8 A4 SEF.
	8 A4 SEF. 9 A4 LEF.
Media <i>n</i> Size*	10 A3 SEF.
	11 8.5" x 12.4" SEF.
	12 8.5" x 13" SEF (folio).
	13 Legal SEF.
	14 Ledger SEF.
	15 Letter Tab stock.
	16 Custom size.
	33 Statement SEF.
	34 Executive LEF.

Fields in the Accounting Record

	1	Plain.		
	2	Bond.		
	3	Color.		
	4	Label.		
	5	Letterhead.		
	6	Pre-printed.		
Media <i>n</i> Type*	7	Pre-punched.		
	8	Recycled.		
	9	Special.		
	10	Transparency.		
	11	Pre-punched Transparency.		
	12	Other.		
Media n Weight*	Med	ia weight in lbs. or g/m ² .		
	0	No tray.		
	1	Tray 1.		
	2	Tray 2.		
Media n Hopper*	4	Tray 3.		
(Input paper tray)	8	MBT.		
	16	HCF.		
	32	Inserter		
	255	Auto tray selection.		
	0	No stacker.		
	1	Stacker 1 (no finisher, default output).		
	2	Stacker 2 (Elevator tray with Finisher).		
	4	Stacker 3 (Upper tray, Finisher).		
Media n Stacker*	8	Stacker 4 (Booklet Finisher).		
(Output paper tray)	16			
	32	Stacker 6 (Container Stacker)		
	64	Stacker 7 (Container Stacker)		
		Stacker 8 (Container Stacker)		
	255	Auto stacker selection.		
Media n Sheet Count*	Num	ber of sheets for this media selection.		
Media n Side Count*	Number of sides for this media selection.			
* Media fields are repe	ated	for each media selection in the job (10 maximum).		

Web	Utilities	4-37
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4-38 Web Utilities



What This Chapter Provides

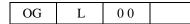
This contains the following information.

- <u>Guidelines Flowchart</u>
- Basic Troubleshooting Tips
- <u>General Printing Problems</u>
- <u>Print Quality Problems</u>
- Duplex Printing Problems
- Printing Notes
- <u>OCP Display Messages</u>

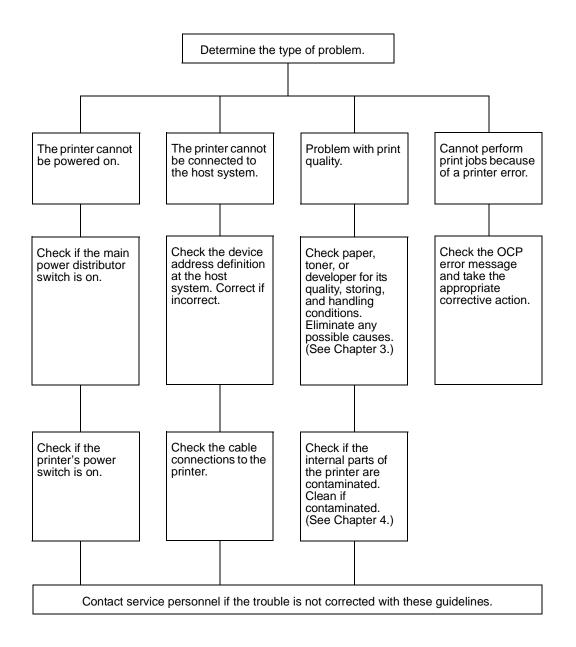
NOTE:

The following sections provide troubleshooting guidelines. If you are still unable to resolve a problem, contact your authorized service center.

Troubleshooting	5-1
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Guidelines Flowchart



Basic Troubleshooting Tips

The following are some common situations that can cause a variety of problems. Before you look for a specific problem use the tips in this list.

- Check the power and all cables to the printer.
- Check the printer OCP for information.
- If possible, print the Status Page from the Reports menu and verify that the settings match your configuration.
- Check the current status of the printer.
 - □ The current status appears on the OCP.
 - □ If used with a MicroPress Server, check the Status field in the DDP-MP main window.

If the printer is processing your job, the status message reflects this.

If your print job does not appear in the status message, another user's job may be printing before yours or the printer may already have finished printing your job.

If your job is waiting to print, it appears in the list for the print queue.

Troubleshooting	5-3

General Printing Problems

If this happens	Try this
Paper handling problems (jams)	 Check pick rollers and clean area of problem paper source. Straighten paper stack of problem paper source. Confirm paper size in printer driver, paper tray, and OCP.
Drum Wrap	 Paper fibers should run parallel to the paper feed direction. See Appendix C. Paper curl should be less than 10mm. See Appendix C.
Printer does not respond to a Print command	 Try printing a Status Page from the Reports menu. If you are able to print the Status Page but still cannot print a file from your computer, contact your system administrator or your authorized service/support center. Verify that you printed to the correct queue. If you are still unable to print, contact your system administrator.
Message requests a paper size that you do not have	 Cancel the job. Change the page size in the Print option of your application. Resubmit the job.
Status Page does not print	 If the OCP shows a diagnostic or error message, take the appropriate corrective action. If the OCP is completely blank, shut down and restart the printer. When the printer reaches Ready status, try printing a Status Page from the Reports menu. If the Status Page still fails to print, contact your authorized service/support center.
Stacked Paper Sticks	 Too much paper on the Finisher. Remove the stacked paper from the Finisher. Print density is too high. See "Print Density Adjustment" on page 6-64
Print settings for your job output do not match the settings you gave	 Verify that you did not override the setting for job in another place.
Paper is not being picked from the tray	Perform a test print on the tray.
Staple function is not working	Perform a stapling test using the Test Print.
Job offset is not working	Perform aa job offset test using the Test Print.
Incorrect font is printed.	 Print a font list report to confirm the font is available. Confirm the printer driver setting. Refer to the README file in the printer driver CD-ROM.

Print Quality Problems

If this happens	Try this
Page is wrinkled or printed characters are blurred	 Paper does not meet specification. See "Media Guidelines" on page C-1 Moisture content is too high. Replace with newly unwrapped paper. The side guide is not adjusted properly. Adjust to proper size. OCP setting does not match loaded paper. Load the correct size paper Print density is too high. Adjust print density. See "Print Density Adjustment" on page 6-64
Paper is streaked, spotted, or smudged	 The inside of the printer is dirty. See "Cleaning the Inside of the Printer" on page 6-43 Print density is too high. See "Print Density Adjustment" on page 6-64 Change of paper settings. Print a Cross Pattern test print to remove dirt. The Drum may be damaged. Replace the drum. Notes: This is an electric printing device and slight dots or smudges are unavoidable. A paper jam may cause staining of the fuser unit. Print several pages to remove the stain. Cleaning or replacement of the fuser unit is required in some cases.
Print density of color toner decreases. Fusing of color toner is poor. Printing is too light.	 Moisture content of paper is high. Replace with newly unwrapped paper. OCP setting does not match loaded paper. Load the correct size paper. Print density is too low. Adjust print density. See "Print Density Adjustment" on page 6-64 Heat Roller Temperature is too low. Adjust temperature. See "Heat Roller Temperature Adjustment" on page 6-65 Print density gradually decreased by low density continuous printing. Print a Halftone Pattern of several hundred pages to increase print density. Repeat until print density is recovered. The developer may be damaged. Replace the developer unit.

If this happens	Try this
Voids or vertical voids	 Moisture content is too high. Replace with newly unwrapped paper. Paper does not meet specification. See "Media Guidelines" on page C-1. Creased or wrinkled paper is loaded in the tray. Removed damaged paper or replace with newly unwrapped paper. Print density is too high. Adjust print density. See "Print Density Adjustment" on page 6-64 Host application setting is incorrect. Correct the application settings. There may be condensation inside the printer. Turn on the printer power and leave it for 30-60 minutes, then start printing. The drum unit may be damaged. Replace the drum unit.
The tip or back end of paper is dirty	Clean the NIP Guide and TR guide in the Conveyance Belt area.Clean the Finisher Exit Roller.
Part of solid printing is scraped	 Print Density is too high Adjust print density. See "Print Density Adjustment" on page 6-64
Printing is too dark	 Print Density is too high Adjust print density. See "Print Density Adjustment" on page 6-64 Print Density is too high after initial power up. Adjust print density lower. After several thousand pages are printed, return the print density to the higher setting.

Duplex Printing Problems

If this happens	Try this	
Duplex pages print upside down	Change the Duplex print option that specifies how the second image is placed relative to the first image.	
Paper Jam	 Confirm paper weight setting in the OCP. Use paper (grain long) with fibers that run in parallel with the paper feed direction. 	

Printing Notes

Duplex on Transparency

When duplex printing and Transparency, Transparency-pp, or Label stock are specified at the same time, the job is delivered in simplex mode.

Input Tray PCL

The MBT cannot be included in PCL Tray Auto Select. If the MBT is included, and even if the specified paper is loaded in the MBT, printing will stop and the OCP will prompt you to load the correct paper size to the MBT.

Duplex on Tab Stock

When duplex printing and A4 Tab or Letter Tab paper are specified, the job is delivered in simplex mode.

Single Page Staple

When stapling is specified on a one-page document, no stapling will occur.

Out of Staples

When the Finisher runs out of staples the action will reflect the setup defined in the Web Utilities (System/Finisher)

Stop: Error message will appear on the OCP. Continue: Printing will occur with job offset.

• Staple Upper Limit

If the staple job contains more than 50 sheets or if the thickness of the paper is more than 5.0mm, the job is delivered offset with no stapling.

■ Staple/Collate

If stapling is specified but not collating, the job will not be stapled.

■ Staple/Face Up

When stapling and face-up delivery are both specified, the job will be delivered face up and offset with no stapling.

■ Staple/Upper Tray

When stapling and upper tray are both specified, the job will be delivered stapled in the elevator tray.

Staple/Paper Type

When staple and transparency or transparency-pp are both specified, the job is delivered offset with no stapling.

• Offset Printing/Upper Tray

When offset printing and upper tray are both specified, the job is delivered to the Upper Tray with no offset.



• Staple Feasible Paper Weight

When stapling is specified and the paper weight exceeds 34 lb. (128 g/m^2) the printer will deliver the job offset with no stapling.

Staple/Offset

When stapling and offset are both specified, the job is delivered stapled with no offset.

Collate

For collated output disable the application software and enable the printer driver.

Report/Test Print

When report and test printing are chosen from the OCP while a job is printing, the report and test are printed after the current job is complete.

Printing is Offset in Booklet

Depending on paper thickness, slippage may occur during the folding process. For this reason, print should be a minimum 10mm away from the fold.

- Perform a test print to check print quality prior to starting daily print jobs and prior to starting jobs requiring high print quality.
- Continuous half-tone or solid black printing may cause print quality degradation.
- Frequent high black-to-white ratio and high-density printing can cause degraded print quality such as black dots or offset. Check the print quality periodically and clean the inside of the printer as described in "Cleaning the Printer" on page 6-42.
- Color printing causes more toner scatter than black printing, which results in the inside of the printer becoming dirty easily. Check the print quality periodically and clean the inside of the printer as described in "Cleaning the Printer" on page 6-42.
- A high black-to-white ratio on duplex print jobs can cause paper to stick to the finisher. To avoid this problem, remove paper from the finisher stack frequently or lower the print density.
- Print density may be high for several thousand pages after powering on the printer. If that is the case, set the print density to "Light" for several thousand pages, then return the print density to "Medium". See "Print Density Adjustment" on page 6-64.
- Print density may be gradually decreased by continuous low-density printing.
 Print several hundred pages of a half-tone pattern to increase print density.
- After continuous printing of thick paper, the first sheet of a new print job may pick up dirt from the fuser unit. Run a cross-pattern test print to remove dirt
- When thin paper (less than 28lb) and thick paper (more than 28lb) prints alternately continually, the printing spend decreases.
- Paper jams (e.g. E134) may happen at the Switch Back Station, when printing thick papers (much stiffness).

- Banding may happen when printing half tone. This phenomena happens when papers go into the fuser unit or papers go out from the regist rollers.
- Banding may happen when half tone printing to thick papers (much stiffness). This phenomena happens when papers go into the fuser unit or papers go out from the regist rollers.
- Print position may be gradually shifted to backward in a paper when thick papers printing.
- Multiple paper feed may happen on papers out of the specification (e.g., Papers have dull edge).
- Paper jams (e.g. E118,E119,E128,E134,etc), stacker jams, poor stacking accuracy and poor staple accuracy may happen on papers with much curl.
- Print start position may change by paper size and paper weight.
- Print density may become light or print uniformity may become poor when printing more than 30% print coverage.
- Stacking accuracy may become poor when printing thin long papers.
- Contamination may happen when printing out of printable area. Paper exit rollers of the finisher may contaminated in short period.
- Print density is dark after replaced with new developer mixture rather than during stable printing.
- In case something hard like a ring, a button is hit to OPC drum, some scratches may happen.
- Tray combination causes print speed down for preventing from happening paper jam.

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Booklet Finisher Error Codes (Option)

When Invalid Booklet#xx or Invalid Folder#xx is displayed on the OCP, cancel the job and remove any remaining paper. Refer to the applicable error code in the table below for a description of the problem. Resubmit the job after taking the appropriate corrective action.

Error Code (#xx)	Description
#01	Single sheet booklet required.
#02	Mixed paper sizes requested in booklet.
#03	Uncollated set booklet required.
#04	Booklet The print job is over 16 sheets or the thickness of the paper is over 1.7 mm. Folding The print job is over 3 sheets or the thickness of the paper is over 0.3 mm.
#05	Face Up requested.
#10	Insert tray requested without Publishing Finisher present.
#11	Saddle Stitch requested without Publishing Finisher present.
#12	Invalid request for transparencies or labels in booklet.
#13	Invalid custom paper code requested for booklet.
#14	Unsupported paper code requested for booklet.
#15	Incorrect stacker requested for booklet (must be Booklet Stacker or AUTO).
#16	Incorrect stacker requested for Saddle Stitch booklet.
#17	Trimming requested without Booklet Stacker and Saddle Stitch.
#18	Tab Stock paper requested from an inserter tray.

The following paper sizes and weights can be used when creating a booklet to be Saddle Stitched.

Paper Size:

A4 (SEF), B4 (SEF), A3 (SEF), Letter (SEF), Folio (SEF), Legal (SEF), Ledger (SEF), and Custom Size.

Custom Size:

Leading Edge (Width): 8.27 inch (210.0 mm) to 12.0 inch (304.8 mm). Side Edge (Length): 11inch (279.4 mm) to 17.5 inch (444.5 mm).

Paper Weight:

64 - 163 g/m² Bond: 17 - 43 lb. Index: 35 - 90 lb.



Network Problems

The following lists some common causes and solutions for network problems. If you suspect printing problems are network related, contact your System Administrator.

1. Is the Ethernet cable broken or otherwise abnormal?

Change the Ethernet cable.

2. Is the host interface running normally?

Test printing using a different host.

3. Is there a printer problem?

Execute a print test to confirm the printer is operating properly.

- 4. Is the network cable connected to the printer?
- 5. Were both ends of the network cable connected prior to powering on the printer?

OCP Display Messages

The OCP displays the printer status with 1- to 2-line messages. There are three types of messages: status, warning, and error messages. The following table lists the messages in alphabetical order. Each message is explained and a corrective action is given when applicable.

For information on messages not explained here, please refer to your option-specific user's guide.

Message	Description	Corrective Action
Any Tray Except MBT	The wrong size paper is loaded except in the MBT	Load any tray except the MBT with the requested paper size.
Booklet Stacker Full Remove Booklets	Self-explanatory.	Remove booklets.
Booklet Stacker FullRemove PaperE027	Self-explanatory.	Remove booklets.
Call for Service Exxx or other text	Any "Call for Service" message requires a service call for problem resolution. Line 2 is the error code.	See "E2XX, EC#XX, BR#XX Call for Service Error" on page 1-13. Contact your authorized Service Technician and provide the error code displayed on the OCP.
Center Guide Open Close Guide E040	Self-explanatory.	Close the guide.
Center Cover Open Close Guide E041	Self-explanatory.	Close the cover.
Clearing Error	Status message.	Wait for the printer to return to a Ready state.
Container <i>x</i> Top Cover Open Close Cover	The top cover of the container is open. x is the container number.	Close the cover.
Container xV Path Cover Open Close Cover	The v path cover of the container is open. x is the container number.	Close the cover.
Creating Software Log	Status message. The printer is creating the requested software log.	Wait for the printer to return to a Ready state.
CS1 Lower Basket Size Change Basket E092	The stacker basket is the wrong size for the requested paper size	Change the basket.
CS1 Upper Basket Size Change Basket E093	The stacker basket is the wrong size for the requested paper size	Change the basket.
CS2 Lower Basket Size Change Basket E094	The stacker basket is the wrong size for the requested paper size	Change the basket.
CS2 Upper Basket Size Change Basket E095	The stacker basket is the wrong size for the requested paper size	Change the basket.
Deleting Jobs	Status message. The selected jobs are being deleted from the print queue.	Wait for the printer to return to a Ready state.
Developer Bottle Not Set Set Developer Bottle E01E	The developer bottle is not seated properly.	Reseat the bottle.
Developer Charge E0A1	Replacement of the developer is running.	Wait for the printer to return to a Ready state.
Developer Discharge E0A2	Replacement of the developer is running.	Wait for the printer to return to a Ready state.

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Message	Description	Corrective Action
Developer Error Check Color E049	The color is different between the toner unit and the developer unit.	Check the toner and developer units and replace the incorrect unit.
Developer Error Retry Exhausting E048	An error occurred when operating the developer.	Retry. If the error occurs again, contact an authorized Service Technician.
Developer Error Retry Operation E047	An error occurred when replacing the developer mix.	Retry. If the error occurs again, contact an authorized Service Technician.
Developer Mix End of Life Replace Developer E012	The developer mixture needs to be exchanged.	Replace developer. Printing will resume when the developer is replaced.
Developer Unit Not Set Check Developer Unit E037	Self Explanatory	Set the Developer Unit.
Drum Unit End of Life Replace Drum Unit E016	The photoconductive drum needs to be replaced.	Replace the Drum Unit. Printing will resume when the Drum Unit is replaced.
Drum Wrap Sensor Error Clean Wrap Sensor E018	The drum wrap sensor level is abnormal.	Contact your authorized Service Technician.
Drum Wrap Remove Paper E118	Simplex paper is wrapped around the drum.	Remove the jammed paper.
Drum Wrap Remove Paper E119	Duplex paper is wrapped around the drum.	Remove the jammed paper.
Duplex-Always	Duplex-Always mode is enabled.	Contact your System Administrator for additional information.
Elevator Tray Paper Full Remove Paper E009	The output tray of the Advanced Finisher is full.	Remove paper from the elevator tray.
Elevator Tray Paper Full Remove Paper E00A	Paper did not stack properly in the output tray of the Advanced Finisher.	Remove paper from the elevator tray.
Enter new password	Passwords are for use by System Administrators and Service Technicians only.	Contact your System Administrator for additional information.
Enter new password again	Passwords are for use by System Administrators and Service Technicians only.	Contact your System Administrator for additional information.
Enter service password	You must provide the service password to gain access to the selected menu item.	Contact your Authorized Service Technician if you need access to the Service menu.
Enter system password	You must supply the system password to gain access to the selected menu item.	Contact your System Administrator if you need access to menu items that are password protected.
Entrance Paper Guide Open Close Guide	The Entrance Paper Guide is located behind Front Cover R of the Publishing Finisher.	Close the guide completely, then close the cover.
Finisher Front Cover Open Close Cover E03F	The front cover of the Advanced Finisher is open.	Close the cover.
Front Cover Open Close Cover E043	Self-explanatory.	Close the cover.
Fuser Unit End of Life Replace Fuser Unit E015	The fuser unit needs to be replaced.	Contact your authorized Service Technician.

Message	Description	Corrective Action
Fuser Warning (life) F/R	The fuser unit has been operated more than the specified time F:Front Engine R:Rear Engine	Be aware that service maintenance is regured when reaching the specified time, Refer Replacing the Fuser Cleaning Web on 6-15 page.
Fuser Web End of Life Replace Fuser Web E014 or E017	The fuser cleaning web needs to be replaced.	Replace the Fuser Cleaning Web. Printing will resume when the Fuser Cleaning Web is replaced.
H Pos Sensor Error Clean H Pos Sensor E01F	Image Sensor (H Pos Sensor) is dirty.	Clean the Image Sensor.
Getting Time xxx.xxx.xxx	Getting the time	None
HCF Open Close Tray E023	The door of the high capacity feeder is open.	Close the door.
HCF Top Cover Open Close Cover E046	Self-explanatory.	Close the cover.
Heater Off Mode	Status message	Heater off mode is cancelled when1. the printer is On Line2. any OCP key is pushed.3. the consumable counter is resetfrom the Web.4. printer Status is displayed from theWeb.
Hopper Size Unmatch Load Paper E090	The wrong size paper is loaded in the hopper.	Load the requested size.
Input Keycode	A valid keycode is required to activate this feature.	Contact your System Administrator or authorized Service Technician.
Input Station Cover Open Close Cover E044	The IS cover is also referred to as the vertical path cover.	Close the cover.
Inserter Load xxx E091	The wrong size paper is loaded in the inserter	Load the requested paper size.
Insufficient Disk Space One Copy Job	There is not enough space for the requested operation. Only one copy is printed.	Increase disk space or send job multiple times. See table below
Invalid Combination #1 Cancel Job	Incorrect stacker choice requested. (Cannot deliver to Upper Tray from Inserter.)	Cancel the job.
Invalid Combination #2 Cancel Job	Incorrect stacker choice requested: (Cannot deliver to Container Stacker from Inserter.)	Cancel the job.
Invalid Folder #xx Clear Paper Path	The Booklet Finisher cannot perform the operation.	Remove the remaining paper and cancel the job.
Invalid Folder #xx Cancel Job	The Booklet Finisher cannot perform the operation.	Cancel the job.
Invalid Password	A valid password is required to access this area of the OCP.	Retry password. If incorrect, contact your System Administrator.
Invalid Time Server Address	The specified Time Server is invalid.	Check the time server IP address via the Web Utilities.
Invalid Value	Incorrect value entered.	Re-enter value.
IS Cover Open Close Cover E044	Self-explanatory.	Close the cover.

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Message	Description	Corrective Action	
LED Eraser Not Set Set Erase Lamp E080	The LED eraser is not set.	Contact your authorized Service Technician.	
Lifting Tray Name	The specified tray is moving into the feed position.	Status message. Wait for the printer to return to a Ready state.	
Loading Fail Network	Status message.	Wait for the printer to return to a Ready state.	
Loading Network	Status message.	Wait for the printer to return to a Ready state.	
Low on Front Staples	Status message.	Have replacement staples available.	
Low on Rear Staples	Status message.	Have replacement staples available.	
Low Toner - Recovery E09A	In process of supplying the toner.	Wait for the printer to return to a Ready state.	
MBT Load xx E090	The wrong paper size is loaded in the multi-bypass tray.	Load the MBT with the requested paper size.	
Multi Feed Jam HCF <i>x</i> Remove Paper E15D or E15E	Two sheets were fed from the HCF.	Remove the jammed paper.	
Multi Feed Jam Tray <i>x</i> Remove Paper E15x	Two sheets were fed from the tray. <i>x</i> is the tray number.	Remove the jammed paper.	
Network Load Failed	Network connection error.	Check the Ethernet cable of the NIC.	
Out of Front Staples Load Staples	The front stapler unit of the Advanced Finisher is out of staples.	Replace the front staple cartridge.	
Out of Rear Staples Load Staples	The rear stapler unit of the Advanced Finisher is out of staples.	Replace the rear staple cartridge.	
Paper in Center Path Remove Paper E0Cx	Self-explanatory	Remove the jammed paper.	
Paper in Connecting Unit Remove Paper E073	Paper jam in connecting unit of the Publishing Finisher.	Remove the jammed paper.	
Paper in Container x path y Remove Paper E0Bx	Paper jam in container stacker. x is the container number, y is the path number.	Remove the jammed paper. Refer to the Container Stacker User's Guide.	
Paper in CS1 Lower Remove Paper E0B7	Paper jam in stacker.	Remove the jammed paper. Refer to the Container Stacker User's Guide.	
Paper in CS1 Upper Remove Paper E0B8	Paper jam in stacker.	Remove the jammed paper. Refer to the Container Stacker User's Guide.	
Paper in CS2 Lower Remove Paper E0C0	Paper jam in stacker.	Remove the jammed paper. Refer to the Container Stacker User's Guide.	
Paper in CS2 Upper Remove Paper E0C1	Paper jam in stacker.	Remove the jammed paper. Refer to the Container Stacker User's Guide.	
Paper in Fin Holding Path Remove Paper E06A or EO6B	Paper jam in holding path.	Remove the jammed paper.	
Paper in Fin Sheet Path Remove Paper E06C	Paper jam in sheet path.	Remove the jammed paper.	
Paper in Finisher Remove Paper E064	Paper jam in entrance path of the Advanced Finisher.	Remove the jammed paper.	

Message	Description	Corrective Action
Paper in Finisher Remove Paper E065	Paper jam in exit path of the Advanced Finisher.	Remove the jammed paper.
Paper in Finisher Remove Paper E066	Paper jam in bypass of the Advanced Finisher.	Remove the jammed paper.
Paper in Finisher Remove Paper E067	Paper jam in staple tray of the Advanced Finisher.	Remove the jammed paper.
Paper in Finisher Remove Paper E068	Paper jam in exit path of the Advanced Finisher sub tray.	Remove the jammed paper.
Paper in Fuser Remove Paper E070	Paper jam in fuser unit.	Remove the jammed paper.
Paper in Input Station Remove Paper E050	Paper jam on IS path 1.	Remove the jammed paper.
Paper in Input Station Remove Paper E051	Paper jam on IS path 2.	Remove the jammed paper.
Paper in Input Station Remove Paper E052	Paper jam on IS path 3.	Remove the jammed paper.
Paper in Input Station Remove Paper E072	Paper jam on feed path of tray table 5.	Remove the jammed paper.
Paper in Input Station Remove Paper E056	Paper jam on IS timing path.	Remove the jammed paper.
Paper in Paper Exit Remove Paper E05E	Paper jam on IS path 12.	Remove the jammed paper.
Paper in Return Path Remove Paper E05C	Paper jam on return path 1.	Remove the jammed paper.
Paper in Return Path Remove Paper E05D	Paper jam on return path 3.	Remove the jammed paper.
Paper in Sheet Inserter 1 Remove Paper	Paper jam in insert tray 1.	Remove the jammed paper.
Paper in Sheet Inserter 2 Remove Paper	Paper jam in insert tray 2.	Remove the jammed paper.
Paper in Stacker <i>x</i> Remove Paper	Paper jam in stacker. <i>x</i> is the stacker number.	Remove the jammed paper.
Paper in Stacker <i>x</i> Top Remove Paper	Paper jam in stacker. <i>x</i> is the stacker number.	Remove the jammed paper.
Paper in Stacker <i>x</i> V Path Remove Paper	Paper jam in stacker. <i>x</i> is the stacker number.	Remove the jammed paper.
Paper in Switch Back Remove Paper E05B	Paper jam on switch back path.	Remove the jammed paper.
Paper in Switch Back Remove Paper E05F	Paper jam on flip path.	Remove the jammed paper.
Paper in Transfer Station Remove Paper E05A	Paper jam on drum.	Remove the jammed paper.
Paper Jam Center Path <i>x</i> Remove Paper E14x	Paper jam on center path <i>x. x</i> is the path number.	Remove the jammed paper.
Paper Jam Connecting Unit Remove Paper E1EA	The paper did not get to the connecting unit of the Publishing Finisher.	Remove the jammed paper.

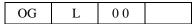
Message	Description	Corrective Action	
Paper Jam Connecting Unit Remove Paper E1F2	Paper jam in the connecting unit of the Publishing Finisher.	Remove the jammed paper.	
Paper Jam Container x Path y Remove Paper E1xx	Paper jam in container stacker. <i>x</i> is the container number, <i>y</i> is the path number.	Remove the jammed paper. Refer to the Container Stacker User's Guide.	
Paper jam CS1 Lower Remove Paper E198	Paper jam in stacker.	Remove the jammed paper. Refer to the Container Stacker User's Guide.	
Paper jam CS1 Lower Remove Paper E199	Paper jam in stacker.	Remove the jammed paper. Refer to the Container Stacker User's Guide.	
Paper jam CS1 Upper Remove Paper E19A	Paper jam in stacker.	Remove the jammed paper. Refer to the Container Stacker User's Guide.	
Paper jam CS1 Upper Remove Paper E19B	Paper jam in stacker.	Remove the jammed paper. Refer to the Container Stacker User's Guide.	
Paper jam CS2 Lower Remove Paper E19C	Paper jam in stacker.	Remove the jammed paper. Refer to the Container Stacker User's Guide.	
Paper jam CS2 Lower Remove Paper E19D	Paper jam in stacker.	Remove the jammed paper. Refer to the Container Stacker User's Guide.	
Paper jam CS2 Upper Remove Paper E19E	Paper jam in stacker.	Remove the jammed paper. Refer to the Container Stacker User's Guide.	
Paper jam CS2 Upper Remove Paper E19F	Paper jam in stacker.	Remove the jammed paper. Refer to the Container Stacker User's Guide.	
Paper Jam Duplex Path Remove Paper E194	Paper jam on return path 3.	Remove the jammed paper.	
Paper Jam Fin Bypass Remove Paper E1C8	Paper jam in finisher bypass.	Remove the jammed paper.	
Paper Jam Fin Exit Remove Paper E1C9	Paper jam in finisher exit.	Remove the jammed paper.	
Paper Jam Fin Folder Remove Paper E1Cx	Paper jam in finisher folding unit.	Remove the jammed paper.	
Paper Jam Fin Sheet Path Remove Paper E1C7	Paper jam in finisher sheet path.	Remove the jammed paper.	
Paper Jam Finisher Remove Paper E1D0	Paper jam in Advanced Finisher path.	Remove the jammed paper.	
Paper Jam Finisher Remove Paper E1D1	Paper jam in Advanced Finisher path.	Remove the jammed paper.	
Paper Jam Finisher Remove Paper E1D2	Paper jam in Advanced Finisher path.	Remove the jammed paper.	
Paper Jam Finisher Remove Paper E1D3	Paper jam in Advanced Finisher path.	Remove the jammed paper.	
Paper Jam Finisher Remove Paper E1D4	Paper jam in stapler tray of Advanced Finisher.	Remove the jammed paper.	
Paper Jam Finisher Remove Paper E1D5	Paper jam in the Advanced Finisher exit.	Remove the jammed paper.	
Paper Jam Finisher Remove Paper E1D6	Paper jam in the bypass of the Advanced Finisher.	Remove the jammed paper.	
Paper Jam Finisher Remove Paper E1D7	Paper jam in Advanced Finisher exit.	Remove the jammed paper.	

Message	Description	Corrective Action	
Paper Jam Finisher Remove Paper E1D8	Paper jam in Advanced Finisher path.	Remove the jammed paper.	
Paper Jam Finisher Remove Paper E1D9	Paper jam in the exit sub tray of the Advanced Finisher.	Remove the jammed paper.	
Paper Jam Fuser Remove Paper E128	Paper jam before flip path.	Remove the jammed paper.	
Paper Jam Fuser Remove Paper E129	Paper jam on flip path.	Remove the jammed paper.	
Paper Jam HCF Remove Paper E190	Paper jam before IS path 5.	Remove the jammed paper.	
Paper Jam HCF Remove Paper E192	Paper jam on IS path 5.	Remove the jammed paper.	
Paper Jam Input Station Remove Paper E181	Paper jam on IS path 1.	Remove the jammed paper.	
Paper Jam Input Station Remove Paper E182	Paper jam before IS path 2.	Remove the jammed paper.	
Paper Jam Input Station Remove Paper E185	Paper jam on IS path 2.	Remove the jammed paper.	
Paper Jam Input Station Remove Paper E186	Paper jam before IS path 3.	Remove the jammed paper.	
Paper Jam Input Station Remove Paper E189	Paper jam on IS path 3.	Remove the jammed paper.	
Paper Jam Input Station Remove Paper E191	Paper jam on IS path 5.	Remove the jammed paper.	
Paper Jam Input Station Remove Paper E193	Paper jam before IS path 5.	Remove the jammed paper.	
Paper Jam Input Station Remove Paper E195	Paper jam in input station.	Remove the jammed paper.	
Paper Jam Input Station Remove Paper E18A	Paper jam before IS timing path.	Remove the jammed paper.	
Paper Jam Input Station Remove Paper E18B	Paper jam on IS timing path.	Remove the jammed paper.	
Paper Jam MBT Remove Paper E18C	Paper jam before MBT timing path.	Remove the jammed paper.	
Paper Jam Paper Exit Remove Paper E134	Paper jam before paper out path.	Remove the jammed paper.	
Paper Jam Paper Exit Remove Paper E135	Paper jam on paper out path.	Remove the jammed paper.	
Paper Jam Regist. Station Remove Paper E110	Paper jam before skew path (simplex).	Remove the jammed paper.	
Paper Jam Regist. Station Remove Paper E111	Paper jam on skew path (simplex).	Remove the jammed paper.	
Paper Jam Regist. Station Remove Paper E112	Paper jam before skew path (duplex).	Remove the jammed paper.	
Paper Jam Regist. Station Remove Paper E113	Paper jam on skew path (duplex).	Remove the jammed paper.	

Message	Description	Corrective Action	
Paper Jam Return Path Remove Paper E138	Paper jam before return 1 path.	Remove the jammed paper.	
Paper Jam Return Path Remove Paper E139	Paper jam on return 1 path.	Remove the jammed paper.	
Paper Jam Return Path Remove Paper E13A	Paper jam before return 2 path.	Remove the jammed paper.	
Paper Jam Return Path Remove Paper E13B	Paper jam on return 3 path.	Remove the jammed paper.	
Paper Jam Sheet Inserter 1Remove PaperE1E0	Self-explanatory.	Remove the jammed paper.	
Paper Jam Sheet Inserter 1 Remove Paper E1E1	Self-explanatory.	Remove the jammed paper.	
Paper Jam Sheet Inserter 1 Remove Paper E1E2	Self-explanatory.	Remove the jammed paper.	
Paper Jam Sheet Inserter 2 Remove Paper E1E5	Self-explanatory.	Remove the jammed paper.	
Paper Jam Sheet Inserter 2 Remove Paper E1E6	Self-explanatory.	Remove the jammed paper.	
Paper Jam Sheet Inserter 2 Remove Paper E1E7	Self-explanatory.	Remove the jammed paper.	
Paper Jam Stacker Input Remove Paper	Paper jam in stacker input.	Remove the jammed paper.	
Paper Jam Stacker <i>x</i> Remove Paper	Paper jam in stacker. <i>x</i> is the stacker number.	Remove the jammed paper.	
Paper Jam Stacker <i>x</i> Top Remove Paper	Paper jam in stacker. <i>x</i> is the stacker number.	Remove the jammed paper.	
Paper Jam Stacker <i>x</i> V Path Remove Paper	Paper jam in stacker. <i>x</i> is the stacker number.	Remove the jammed paper.	
Paper Jam Switch Back Remove Paper E130	Paper jam before switch back path.	Remove the jammed paper.	
Paper Jam Switch Back Remove Paper E131	Paper jam on switch back path.	Remove the jammed paper.	
Paper Jam Tray 1 Remove Paper E180	Paper jam before IS 1 path.	Remove the jammed paper.	
Paper Jam Tray 1 Remove Paper E183	Paper jam on IS 1 path.	Remove the jammed paper.	
Paper Jam Tray 2 Remove Paper E184	Paper jam before IS 2 path.	Remove the jammed paper.	
Paper Jam Tray 2 Remove Paper E187	Paper jam on IS 2 path.	Remove the jammed paper.	
Paper Jam Tray 3 Remove Paper E188	Paper jam before IS 3 path.	Remove the jammed paper.	
Paper Jam Tray 3 Remove Paper E18D	Paper jam on IS 3 path.	Remove the jammed paper.	
Paper Out HCF Load xxx E005	The high capacity feeder is out of paper. xxx is the paper size.	Load the requested paper in the HCF.	

Message		Description	Corrective Action
Paper Out MBT Load xxx	E004	The multi-bypass tray is out of paper. xxx is the paper size.	Load the requested paper in the MBT.
Paper Out Sheet Inserter 1 Load xxx E006		Sheet inserter 1 is out of paper. xxx is the paper size.	Load the requested paper in sheet inserter 1 of the Publishing Finisher.
Paper Out Sheet Inse Load xxx	erter 1 E008	Sheet inserter 1 is out of paper. <i>xxx</i> is the paper size.	Load the requested paper in sheet inserter 1 of the Publishing Finisher.
Paper Out Sheet Inse Load xxx	erter 2 E007	Sheet inserter 2 is out of paper. xxx is the paper size.	Load the requested paper in sheet inserter 2 of the Publishing Finisher.
Paper Out Tray 1 Load <i>xxx</i>	E001	Tray 1 is out of paper. <i>xxx</i> is the paper size.	Load the requested paper in tray 1.
Paper Out Tray 2 Load <i>xxx</i>	E002	Tray 2 is out of paper. <i>xxx</i> is the paper size.	Load the requested paper in tray 2.
Paper Out Tray 3 Load <i>xxx</i>	E003	Tray 3 is out of paper. <i>xxx</i> is the paper size.	Load the requested paper in tray 3.
Paper Out Tray Name		The specified paper tray is out of paper.	Load paper into the tray.
Paper size invalid in Tray x		Paper size error for Test Print	Cancel the job.
Paper Skew Center F Remove Paper	Path E156	Skewed paper in center path.	Remove the jammed paper.
Paper Skew Duplex I Remove Paper	Path E154	Skewed paper in duplex path.	Remove the jammed paper.
Paper Skew HCF Remove Paper	E155	Skewed paper in HCF tray.	Remove the jammed paper.
Paper Skew MBT Remove Paper	E153	Skewed paper in MBT tray.	Remove the jammed paper.
Paper Skew Tray 1 Remove Paper	E150	Skewed paper in tray 1.	Remove the jammed paper.
Paper Skew Tray 2 Remove Paper	E151	Skewed paper in tray 2.	Remove the jammed paper.
Paper Skew Tray 3 Remove Paper	E152	Skewed paper in tray 3.	Remove the jammed paper.
Paper weight invalid in t	tray x	Paper weight error for Test Print	Cancel the job.
Paper Unmatch Check Paper Informatic	n	The paper attribute does not match	Load any tray except the MBT with the requested paper.

Paper Unmatch Check Paper Information		
Load following paper into any tray except MBT.		
Paper Size	:	A4 LEF
Paper Type	:	Plain
Paper Color	:	White
Paper Weight	t:	20 lb



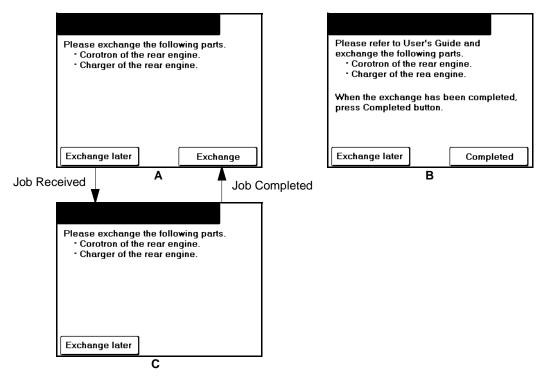
Message	Description	Corrective Action
Pause/Offline	The printer was taken offline.	Touch4to return to Ready status.
PM Counter Exceeded	The printer has printed more than 400,000 pages. Service maintenance is required.	Contact your authorized Service Technician.
PM Counter Warning	The printer has printed more than 390,000 pages.	Be aware that preventative service maintenance is required at 400K pages.
Preseruing Parameters	The printer is saving user setting.	Wait for the printer to return to a Ready state.
Printing xxx / yyy	Status message. Displays the number of copies printed / the number of copies requested.	Wait for the printer to return to a Ready state.
Processing	Status message. The printer is processing print job data.	Wait for the printer to return to a Ready state.
Ready	The printer has warmed up and initialized and is idle while waiting for data.	None.
Resetting	Status message. The printer is resetting the configuration.	Wait for the printer to return to Ready state.
SB Cover Open Close Cover E045	Self-explanatory.	Close the cover.
Self Cleaning	Status message.	Wait for the printer to return to a Ready state.
Sheet Inserter 1 Open Close Tray E025	Self-explanatory.	Close the tray.
Sheet Inserter 2 Open Close Tray E026	Self-explanatory.	Close the tray.
Sleep Mode	The Energy Save time has been reached and the printer is in energy saving mode.	Sleep mode is cancelled when 1. the printer is On Line 2. any OCP key is pushed. 3. the consumable counter is reset from the Web. 4. printer Status is displayed from the Web.
Stacker <i>x</i> Basket Not Set Check Basket	The stacker basket is not seated properly. <i>x</i> is the stacker number.	Reseat the basket.
Stacker x Basket Size Change Basket	The stacker basket is the wrong size for the requested paper type. <i>x</i> is the stacker number.	Change the basket.
Stacker x Front Cover Open Close Cover	Self-explanatory.	Close the cover.
Stacker <i>x</i> Mixed Paper Empty Basket	The stacker contains paper from a previous job.	Remove the paper.
Stacker <i>x</i> Paper Full Remove Paper	The stacker is full. <i>x</i> is the stacker number.	Remove the paper.
Stacker <i>x</i> Top Cover Open Close Cover	The top cover of the indicated stacker is open. <i>x</i> is the stacker number.	Close the cover.

Message	Description	Corrective Action
Stacker x V Path Cover Open Close Cover	The V path cover of the indicated stacker is open. <i>x</i> is the stacker number.	Close the cover.
Sub Tray Cover Open Close Cover	Self-explanatory.	Close the cover.
Sub Tray Paper Full Remove Paper	Self-explanatory.	Remove the paper.
Suspended Task	The printer may have a problem on execution.	Cycle Power.
Switch Back Cover Open Close Cover E045	Self-explanatory.	Close the switch back cover (on the left side of the printer).
Toner Collector Bottle Full Replace Bottle E010 or E013	Self-explanatory.	Replace the toner collector bottle.
Toner Collector Not Set Check Toner Bottle E01D	The toner collector bottle is not seated properly.	Reseat the bottle.
Toner Low Add Toner	Print quality will diminish until toner is replenished.	Supply toner.
Toner Out Supply Toner E011	The toner supply is empty	Supply toner.
Toner Unit Not Set Check Toner Unit E036	Self-explanatory	Set the toner unit.
Top Cover OpenClose CoverE042	Self-explanatory.	Close the guide.
Tray 1 Open Close Tray E020	Self-explanatory.	Close the tray.
Tray 1, 2, or 3 Open	Self-explanatory.	Close the tray.
Tray 1, 2, or 3 Load <i>xxx</i> E090	The wrong paper size is loaded in the tray.	Load the specified tray with the requested paper size.
Tray 1, 2, or 3 Load <i>xxx</i>	The specified tray needs paper.	Load the specified tray with the requested paper size.
Tray 2 Open Close Tray E021	Self-explanatory.	Close the tray.
Tray 3 Open Close Tray E022	Self-explanatory.	Close the tray.
Tray x Active	Displayed during printing.	
Trimming Trash Box Full Empty Box E028	The trimming trash box of the Publishing Finisher is full.	Empty the box.
Trimming Trash Box Not Set Check Box	The trimming trash box of the Publishing Finisher is not seated properly.	Reseat the box.
Trimming Unit Not Set Check Unit	The trimming unit of the Publishing Finisher is not seated properly.	Reseat the trimming unit.
Upper Tray Cover Open Close Cover E03E		
Wait	Status message.	Wait for the printer to return to a Ready state.

Message	Description	Corrective Action
Waiting for data	Status message. May appear if: 1) a large file is being processed, 2) the network connection is slow, or 3) a print job was not terminated correctly.	Wait for the printer to return to Ready state.
Warming up	Status message. Displayed during the power up cycle.	Wait for the printer to reach a Ready state.

PM Exceeded

If screen A is displayed in the "Ready" status, please exchange the following parts



5-24 Troubleshooting

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Chapter 6 Care and Maintenance

What This Chapter Provides

This chapter contains the following information:

- <u>Replacing Consumables and PM Parts</u>
- <u>Clearing Paper Jams</u>
- <u>Cleaning the Printer</u>
- <u>Replacing the Color Kit</u>
- Handling and Storing Consumables

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Replacing Consumables & PM Parts

When a consumable needs to be replaced, the printer stops printing and displays an error message indicating which consumable should be replaced. The following table shows the life expectancy of each consumable.

Consumable	Average Life Expectancy		
Toner (Black)	36,000 images (5% coverage ¹)		
Toner (Color)	80,000 images ² (1.5% coverage)		
Developer Mix (Black)	480,000 images (600,000 drum rotations)		
Developer Mix (Color)	480,000 images (600,000 drum rotations)		
Drum Unit	400,000 images (500,000 drum rotations)		
Fuser1,600,000 images, or3,000 hours (time that heater of fuser unit has been turned on)			
Fuser Cleaning Web	320,000 images		
Toner Collector Bottle	Collector Bottle Black: Every other refill of the toner ³ Color: Every refill of the toner		
Staple Cartridge	5,000 staples		
Charger Unit ⁴	200,000 images		
Corotron Unit ⁴	200,000 Images		
toner to the total area of the toner density level is set to coverage: the printed imag	r printed sheet and is defined as the ratio of area with e sheet. Toner usage is based on 5% coverage when the the default value. The following items affect toner e content, the paper used, and the condition and ctual toner usage may vary due to these factors.		
² "Image" means paper size based on Length of Form	e of Letter/Ar LEF. Other page sizes will have "images" /8.5 in.		
³ Toner collector bottle is replaced at every two toner supply. However, toner collector bottle replacement require message is not displayed at correct frequency after removing the toner collector bottle when not displayed "replacement require message".			
	When printing low print density, toner collector bottle replacement require message may be displayed before the standard replacement frequency (every two toner supply).		
⁴ Rear engine only in Spot	Color Mode.		

External factors can affect the average yield of consumables. Some of these factors are:

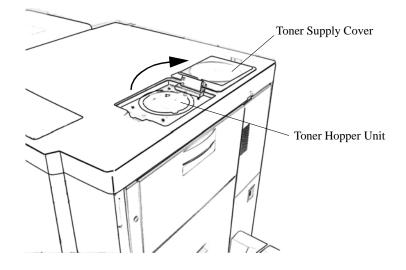
- Humidity
- Temperature
- Type of paper



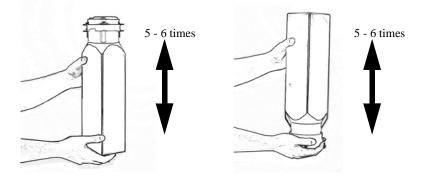
- Run length of jobs
- Adequate ventilation around equipment
- Image coverage on page
- Print Utilization if less than 80%, projected consumable life may become shorter.
- Print Density

Adding Toner

1. Open the Toner Supply Cover.



2. Make sure that the mouth of the toner bottle is closed. Shake the toner bottle up and down about six times, then turn the toner bottle upside down and shake it again.



CAUTION!

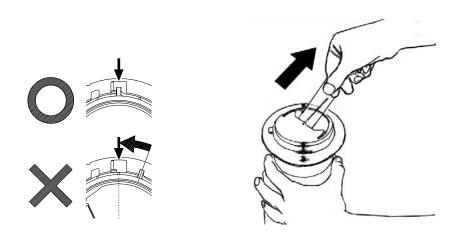
Toner is not harmful to the human body, but if some toner has come in contact with your skin or clothes, you should wash it immediately with cold water.



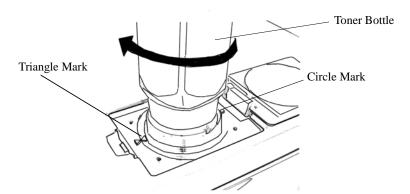
3. Peel the toner seal film.

NOTE:

Before peeling the toner seal film, make sure that the projection of the toner bottle cap is located at the click point. If it is not, turn the bottle cap counterclockwise to move the projection to the click point as shown in the figure below, and then peel the seal film.

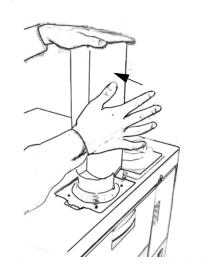


4. Install the toner bottle into the Toner Hopper Unit so that the triangle marks on the bottle mouth and the Toner Hopper Unit line up. Turn the bottle in a half circle until the triangle mark on the bottle comes to fit the circle mark on the Toner Hopper Unit.

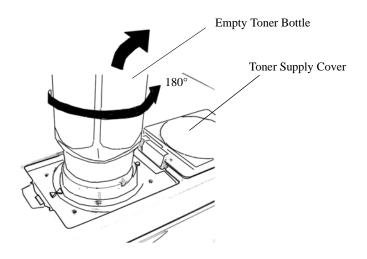




5. Hold the top of the bottle and tap the side to transfer the toner into the Toner Hopper Unit.



6. When the toner bottle is empty, turn it back in a half circle and take it out.



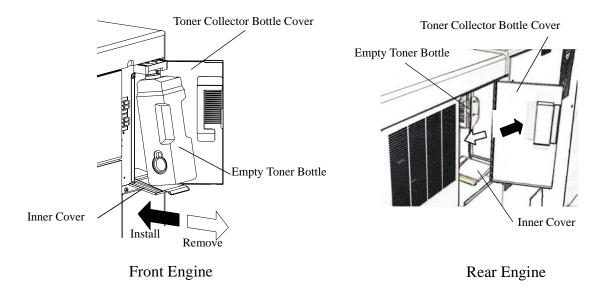
7. Close the Toner Supply Cover and discard the empty toner bottle.



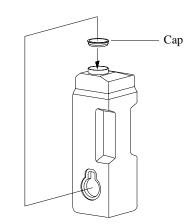
Replacing the Toner Collector Bottle

When the OCP displays the message Toner Bottle Full, replace the Toner Collector Bottle with a new empty bottle.

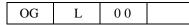
- 1. Open the Toner Collector Bottle Cover and the Inner Cover. (The Toner Cover Door is located at the right side of the printer next to the MBT.)
- 2. Remove the old Toner Collector Bottle.



3. Remove the cap from the side of the Toner Collection Bottle and place it on top of the bottle to seal it.



- 4. Install a new Toner Collector Bottle. (See illustration for Step 2.)
- 5. Close the Inner Cover and the Toner Collector Bottle Cover.



6. Dispose of the full toner bottle properly.

WARNING!

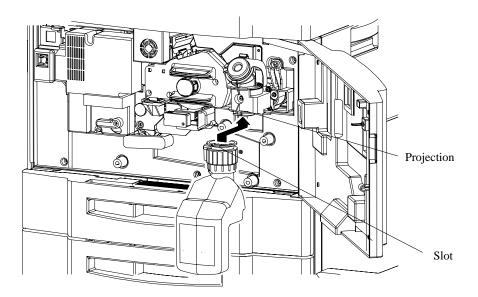
Waste materials should be disposed of or incinerated under conditions which meet all federal, state and local environmental regulations. Since regulations may vary from one region to another, check with the agency that governs waste disposal in your area for proper procedures.

Replacing the Developer Mix

Replacing the developer mix is a two-phase process. First you exhaust the Developer Mix, and then you supply it.

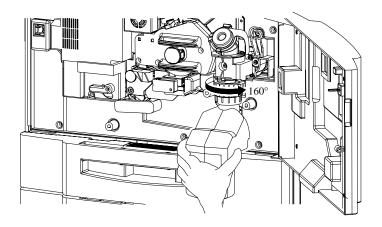
Exhausting the Developer Mix

- **1.** Take the empty developer bottle out of the box.
- 2. Open the Front Cover of the printer.
- **3.** Attach the empty developer bottle to the Developer Unit Duct so that the slot of the bottle fits the projection of the duct.





4. Lock the empty developer bottle by turning the developer bottle cap about 160 degrees in the direction shown below.



CAUTION!

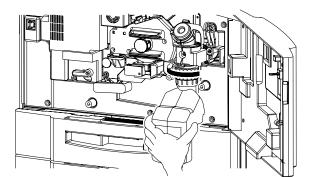
Hold the developer bottle when you turn the cap so that the bottle is not turned together with the cap.

5. To start the exhaust process, make the following selections from the OCP:

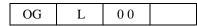
Setup / Consumable / Developer Mix / Exhaust

The exhaust process takes approximately 2 minutes.

6. Remove the developer bottle by turning the bottle cap back about 160 degrees in the direction shown below.

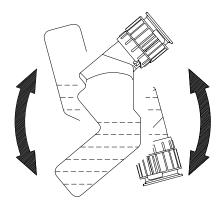




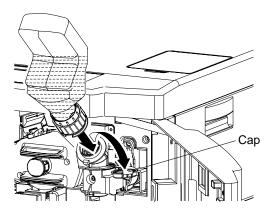


Supplying the Developer Mix

1. Take the new developer bottle out of the box and shake it.



- **2.** Remove the duct cap from the developer duct.
- **3.** Place the new developer bottle onto the developer unit duct.





4. Lock the bottle in place by turning the developer bottle cap about 160 degrees in the direction shown below.



CAUTION!

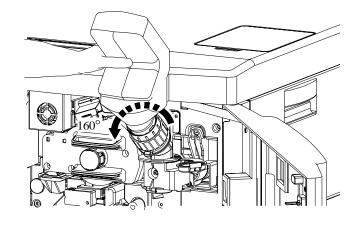
Hold the developer bottle when you turn the cap so that the bottle is not turned together with the cap.

5. To start the replacement process, make the following selections from the OCP:

Setup / Consumable / Developer Mix / Supply

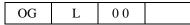
The replacement process takes approximately 2 minutes. (Maximum replacement time is $4\frac{1}{2}$ minutes.)

6. Turn the cap back about 160 degrees in the direction shown and remove the developer bottle.

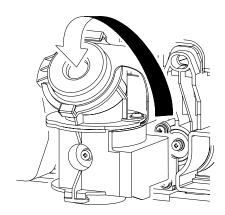


CAUTION!

The Rear Engine cannot perform a toner supply operation with the Top Cover open. Make sure the Top Cover is closed.



7. Place the duct cap back on the developer duct.



- 8. Clean any spilled developer from the printer.
- 9. Close the Front Cover.

NOTE:

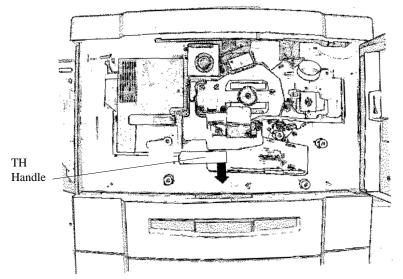
Save the empty developer bottle for use during the next developer exhaust process.



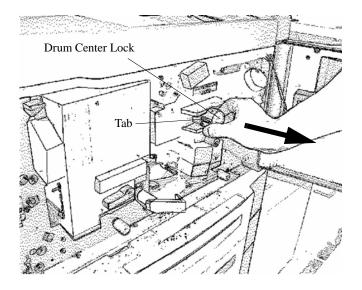
Replacing the Drum Unit

To remove the Drum Unit:

- **1.** Open the Front Cover of the printer.
- 2. Turn the handle clockwise to release the Drum Unit.

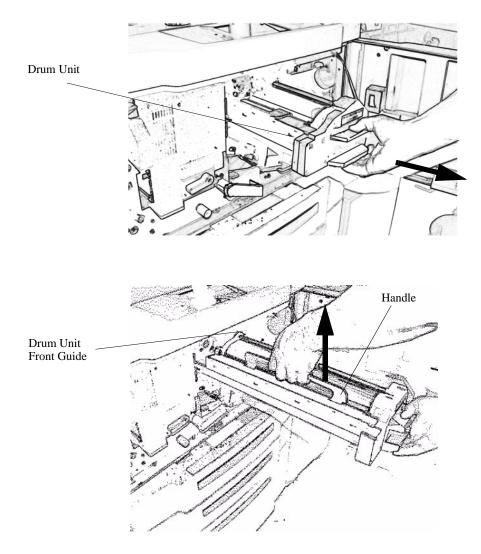


3. Turn the Drum Center Lock until the tab on the side of the lock appears. Push the tab to release the Lock. Pull the drum center lock out of the center shaft.





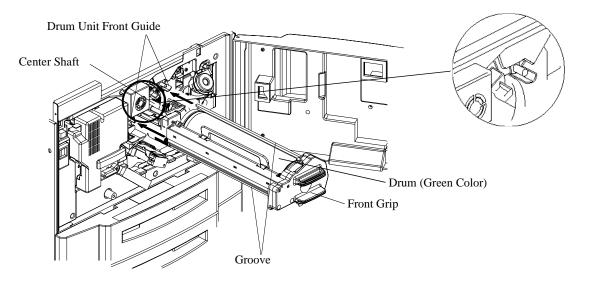
4. Using the grip of the front side of the drum unit, pull it out until the stopper behind the unit catches, then hold the handle and lift the drum unit to remove it.





To install the new Drum Unit:

1. Align the groove on both sides of the Drum Unit to the Drum Unit Front Guides that are located on the front side of the Console Frame. Push the front grip of the Drum Unit until the Drum Unit is set in the proper position.



- **2.** Replace the Drum Center Lock on the Center Shaft. Push the lock until it latches. Make sure the lock is latched by pulling. It should not come back out.
- 3. Turn the handle counterclockwise to close the TH unit.
- 4. Close the Front Cover of the printer.
- **5.** To clear the usage counter for the Drum Unit, make the following selections from the OCP:

Setup / Consumable / Drum Unit /

CAUTION!

Disposal of the used drum unit is the user's responsibility. Dispose of it in accordance with local industrial waste laws.

Do not attempt to burn the drum unit. Drum units are dangerous if exposed to fire.

Do not touch the green portion of the drum unit.

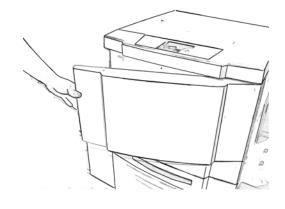
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OG L 00

Replacing the Fuser Cleaning Web

To remove the Fuser Unit:

1. Open the Front Cover of the printer.



WARNING!

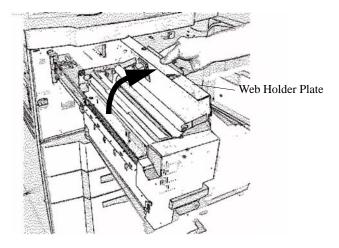
The Fuser Unit is very hot. Do not touch any parts of the Fuser Unit except those parts which are used to replace the Fuser Cleaning Web.

Do Not open the Fuser Unit and Tray 1 at the same time. The printer may tip over causing personal injury or damage to the printer.

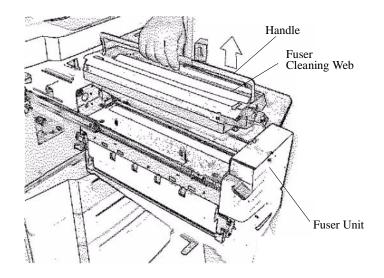
- Fuser Unit
- 2. Hold up the Fuser Latch and pull out the Fuser Unit.



3. Open the Web Holder Plate as shown below.



4. Pull the handle up and use it to lift the Fuser Cleaning Web out of the Fuser Unit.

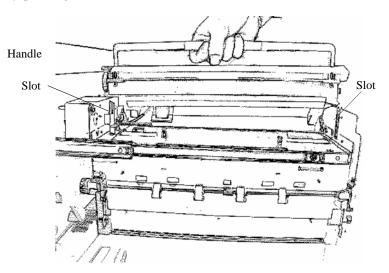


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To install the new Fuser Cleaning Web:

1. Slide the Fuser Cleaning Web into the slots of the Fuser Unit and lock it into place by pushing down the handle.



- 2. Close the Web Holder Plate and push the Fuser Unit back in.
- **3.** Close the Front Cover.
- **4.** To clear the usage counter for the Fuser Web, make the following selections from the OCP:

Setup / Consumable / Fuser Web / 🔳

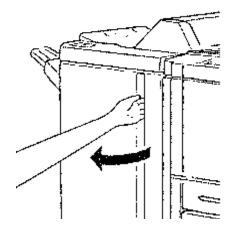


Replacing Staples (Standard or Booklet Maker Finisher)

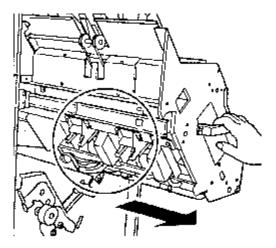
To replace staples in the Finisher, follow the steps below. For instructions on replacing staples in the Publishing Finisher, refer to the Publishing Finisher User's Guide.

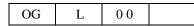
Replace the staple cartridge when LOW STAPLE (R) or LOW STAPLE (F) is displayed on the OCP.

1. Open the Finisher Front Cover.

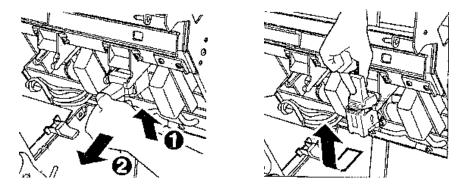


2. Pull out the stacker unit using the handle.

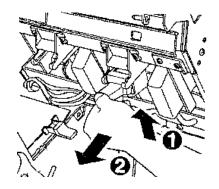




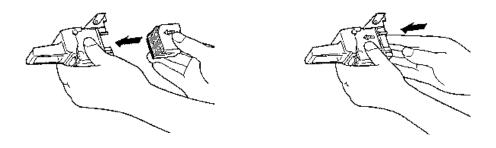
3. Pull up the cartridge housing, then remove it by sliding it along the stapler rail.



4. Remove the empty cartridge from the cartridge housing.



5. Insert the new cartridge into the housing.

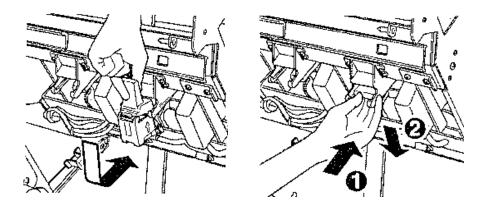


NOTE:

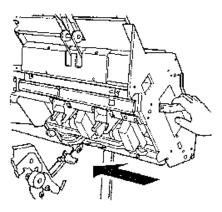
Do not remove any staples remaining in the housing, otherwise, the first set output to the Finisher will not be stapled.



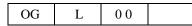
6. Insert the cartridge housing by sliding it along the stapler rail, then push it down and in to secure it in place.



7. Return the stacker unit to its original position.



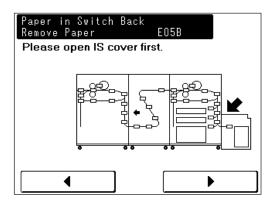
8. Close the Finisher door.



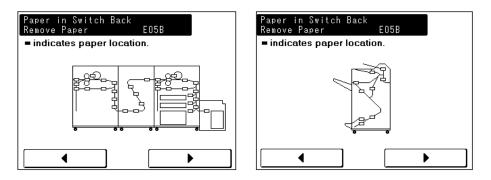
Clearing Paper Jams

When a paper jam occurs, an illustration of the printer is displayed on the OCP with a highlighted box indicating the paper position.

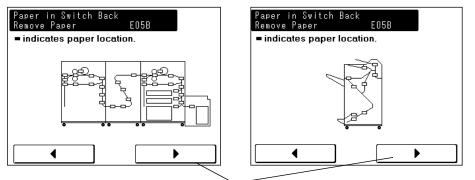
1. If the illustration indicates paper is in the Input Station, open the IS cover first and remove the paper.



2. Close the IS cover and check the display for other paper jams.



3. Remove any remaining paper and touch the Resume button to continue printing.

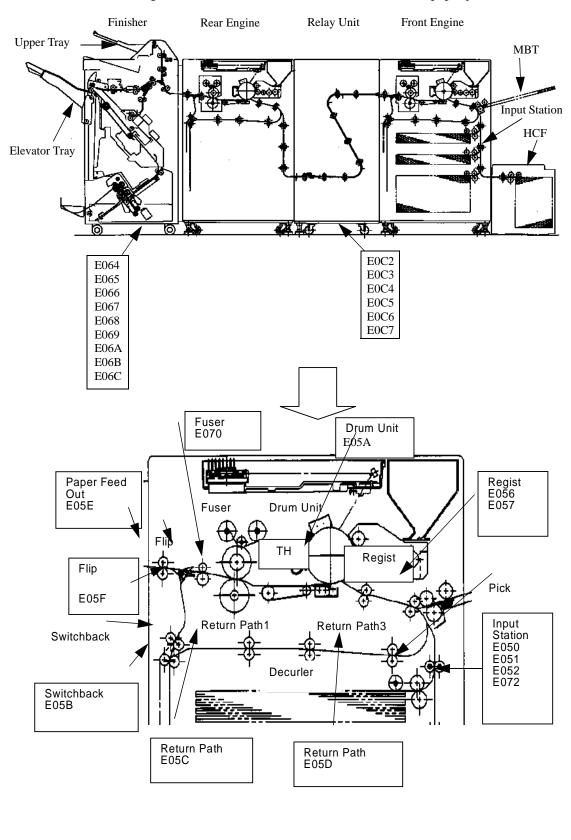


Resume/Online

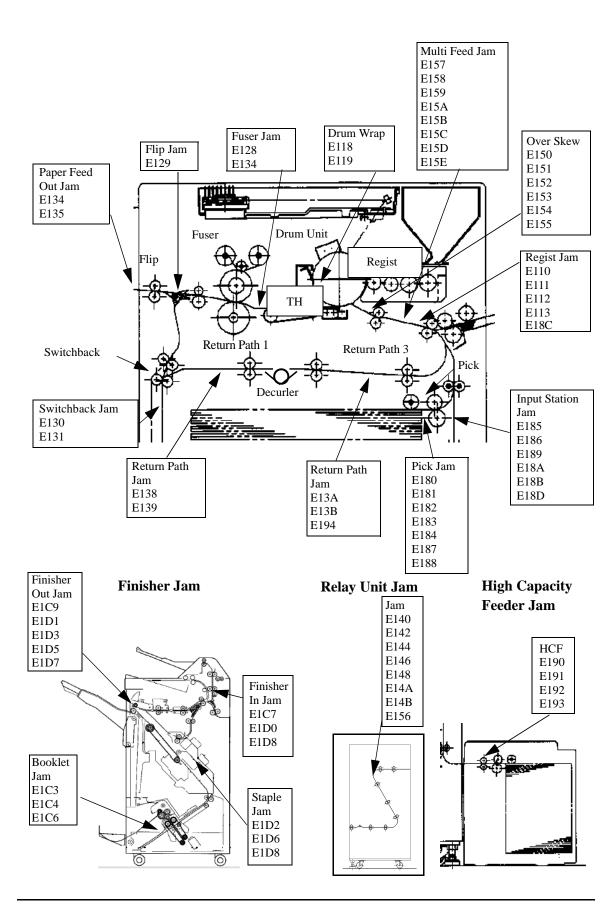
NOTE:

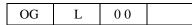
Contact your Authorized Service Technician and provide the 4-digit error code if the error persists.





The following shows the correlation between error code and paper jam location.



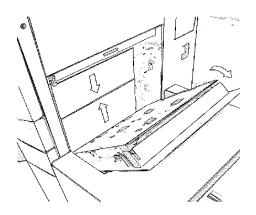


Vertical Path Cover (Front Engine)

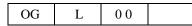
Follow the steps below to clear paper from the Vertical Path Cover.

NOTE: The Vertical Path Cover is also referred to as the "Input Station Cover" (IS cover).

1. Open the Vertical Path Cover and remove the jammed paper. Paper along the paper path is automatically ejected from the Vertical Path Cover.



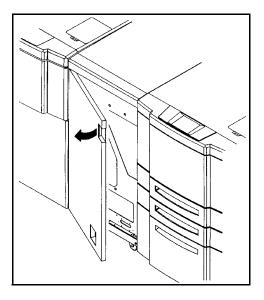
- 2. Close the Vertical Path Cover.
- **3.** Touch \blacktriangleright on the OCP to clear any error messages.

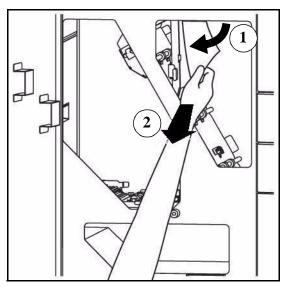


Relay Unit Area

Follow the steps below to clear paper from the Relay Unit area:

- **1.** Open the Relay Unit front cover and the Tab.
- **2.** Remove the jammed paper.

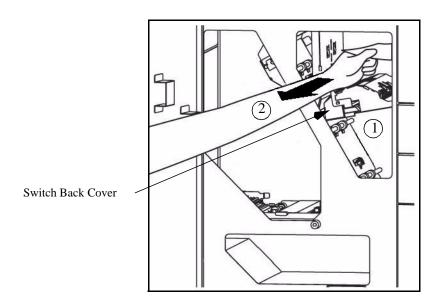




3. Open the Switch Back Cover.

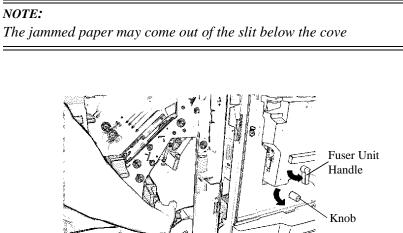
NOTE:

The Switch Back Cover is located on the left side of the printer, but is accessed from inside of the Relay Unit.



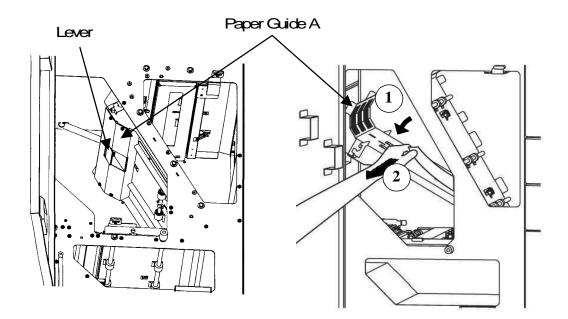


4. Turn the Fuser Unit Handle to the RELEASE position and rotate the blue knob in the direction shown below to remove the jammed paper.



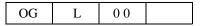
- 5. Close the Switch Back Cover. Then close the Tab.
- 6. Pull the Lever to open the Paper Guide A and remove the jammed paper.

Slit

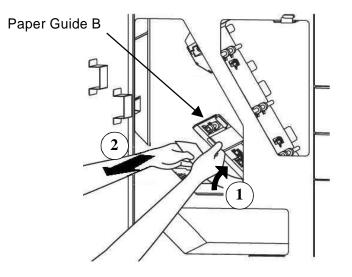


7. Close Paper Guide A.

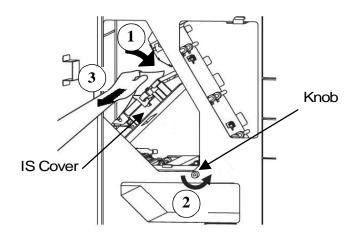
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8. Open Paper Guide B and remove the jammed paper

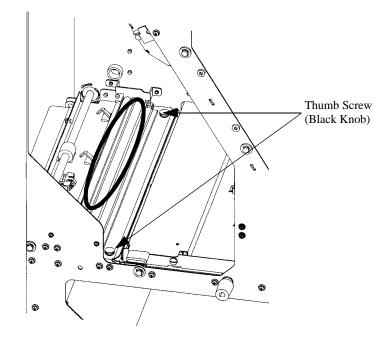


- 9. Close Paper Guide B.
- **10.** Open the IS Cover and rotate the blue knob in the direction shown to remove the jammed paper.

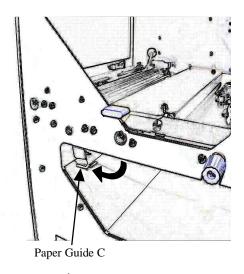




11. If paper is jammed in the section marked "A" below, loosen the Thumb Screws, open the Paper Guide C.



12. Remove the jammed paper, then close the Paper Guide C and tighten the Thumb Screw.



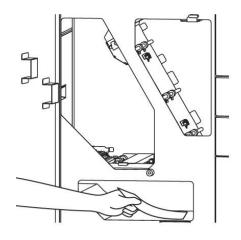
Paper Guide C

13. Close the IS Cover.

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	0 0

14. Remove jammed paper from the bottom.



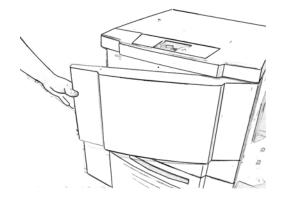
- **15.** Verify Paper Guide A and B are securely closed.
- **16.** Touch \blacktriangleright on the OCP to clear any error messages.



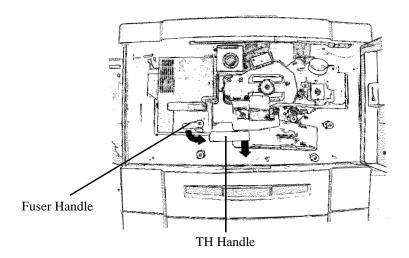
Paper Feed Block Area (Front and Rear Engine)

Follow the steps below to clear paper from the Paper Feed Block area.

1. Open the Front Cover.

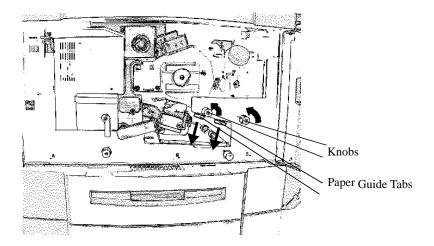


2. Turn the TH handle and Fuser handle to the RELEASE position.

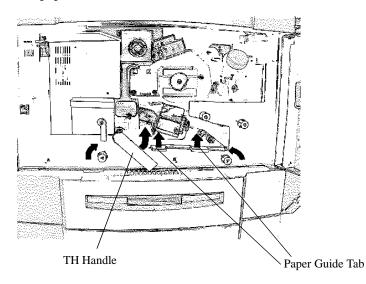




3. Rotate the blue knobs as shown below to remove any jammed paper.



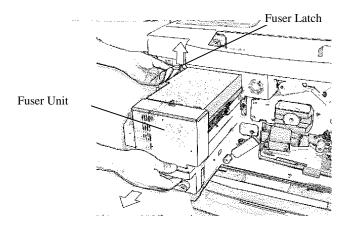
- **4.** Turn the TH handle to the LOCK position.
- **5.** In duplex printing, remove any jammed paper from the Paper Guide Tab. While holding the Paper Guide Tab up, rotate each blue knob as shown below to remove any jammed paper.



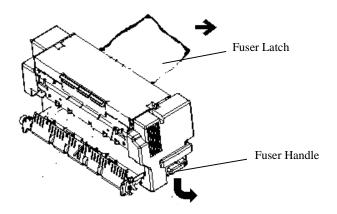
6. Turn the TH Handle and the Fuser handle to the LOCK position.



7. If a paper jam occurs in the Fuser Unit, hold up the fuser Latch and pull out the Fuser Unit.



8. Lower the Fuser Unit Handle and remove the jammed paper.



CAUTION!

Do not attempt to removed the jammed paper without lowering the Fuser Handle as this can cause damage to the Fuser Cleaning Web or Fuser Unit.

- 9. Push the Fuser Unit back in.
- **10.** Close the Front Cover.
- **11.** Touch \blacktriangleright on the OCP to clear any error messages.

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Trays 1, 2, and 3

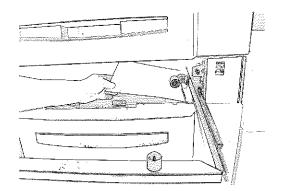
Follow the steps below to clear paper from Trays 1, 2, and 3.

Tray 1

WARNING!

Do not open Tray 1 if the Fuser Unit is pulled out. The printer may tip over causing personal injury or damage to the printer.

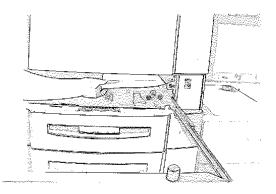
1. Open the tray and remove the jammed paper.



- 2. Close the tray.
- **3.** Touch \blacktriangleright on the OCP to clear any error messages.

Tray 2 or 3

1. Open the tray and remove the jammed paper.

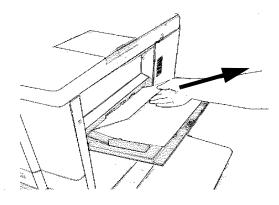


- **2.** Close the tray.
- **3.** Touch \blacktriangleright on the OCP to clear any error messages.

Multi-bypass Tray

Follow the steps below to clear paper from the MBT.

1. Remove the jammed paper by pulling it out in the direction shown below.



2. Touch \blacktriangleright on the OCP to clear any error messages.

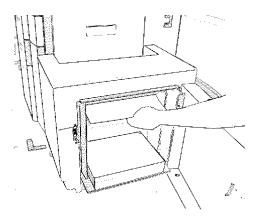
High Capacity Feeder

Follow the steps below to clear paper from the optional HCF.

WARNING!

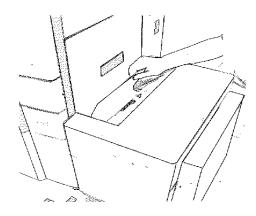
The table inside the HCF automatically descends when you open the door of the HCF. Do not allow anything to be caught between the table and the bottom of the HCF.

1. Open the door of the HCF and remove any jammed paper.



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2. Take out the Top Cover and remove any jammed paper.



- 3. Return the Top Cover to its original position and close the door of the HCF.
- **4.** Touch \blacktriangleright on the OCP to clear any error messages.

Tab Stock Jam Recovery

If a jam occurs when the tab stock is in the paper path, follow the steps below to clear the printer and resume your print job. If there is no tab stock in the paper path, proceed as you would for any paper jam.

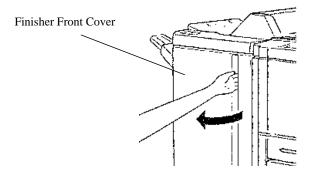
- 1. Clear the jammed paper and tab stock from the paper path.
- 2. Determine which tab in the set was affected by the jam.
- **3.** Open the paper tray that contains the tab stock. Remove tab stock from the stack until the tab position that jammed is on top. Close the paper tray.
- **4.** Return the printer to the on-line position and your print job will resume automatically.



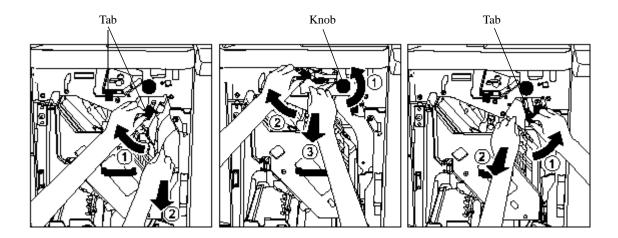
Finisher Jam (Standard or Booklet Maker)

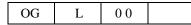
If a jam occurs in the finisher, follow the steps below to clear the jam and resume the print job. For the Publishing Finisher or the Container Stacker, please refer to the relevant User's Guide.

1. Open the Finisher Front Cover.



2. Move the blue tab and remove the paper. Turn the blue knob, move the blue tab, than remove the paper. Move the blue tab and remove the paper.

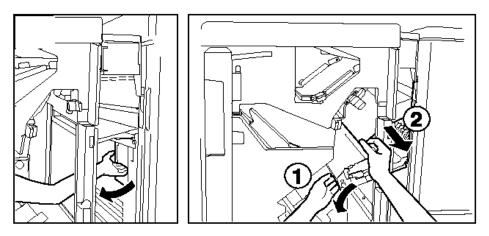




3. Open the Switch Back Cover and remove the paper.

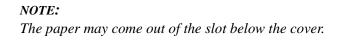
NOTE:

The Switch Back Cover is located on the left side of the printer but is accessed from inside of the Finisher.



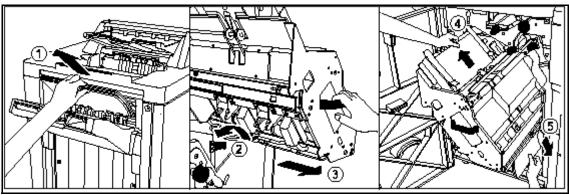
4. Open the Front Cover and turn the fuser unit handle to the Release position and rotate the blue know in the direction of the arrow to remove the paper.





5. Remove the paper from the Elevator Tray.





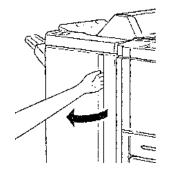
6. Pull out the Stacker and remove the paper from the Delivery Tray.

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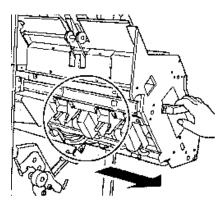
Clearing Wedged Staples

Follow the steps below to clear wedged staples.

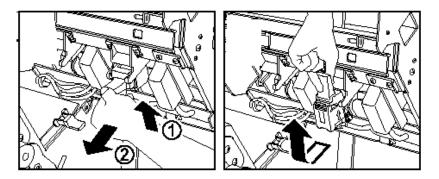
1. Open the Finisher Front Cover.



2. Pull out the stacker unit using the handle.

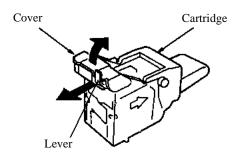


3. Pull up the cartridge housing and slide it along the stapler rail to remove it.

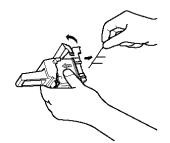




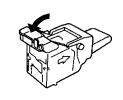
4. Pull the lever of the cartridge, then open the cover.



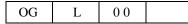
5. Remove the wedge staples.



6. Close the cover.



- **7.** Insert the cartridge by sliding it along the stapler rail. Push in and down to secure it in place.
- **8.** Return the stacker unit to its original position.
- 9. Close the finisher front cover.



Cleaning the Printer

In order to maintain print quality, thoroughly clean the printer following the instructions below. When cleaning the printer, pay particular attention to the notes and cautions for safe maintenance.

CAUTION!

Power OFF the printer prior to cleaning.

Do not use solvent on the printer. Using solvent may dissolve the plastic and paint of the printer.

Do not use cleaning solutions to clean inside and around the printer. Use only a water-moistened cloth.

NOTE:

If the toner gets on your clothes, wipe it off with a dry cloth first and wash the clothes in COLD water. Be careful not to use hot water as it permits the toner to permeate into the fabric. Although the toner is nontoxic, avoid breathing toner particles.

Cleaning Frequency

Use the following table as a guide for checking and cleaning the printer.

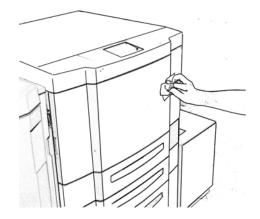
	Item	Frequency
	Check print quality	Daily and after a paper jam
	Clear print jams	
	Clean the inside of the printer	After replacing drum unit
Check & Clean	Clean the outside of the printer	After replacing the toner collector bottle or whenever necessary.
Check & Clean	Clean the toner bottle area	After supplying toner or whenever necessary.
	Clean the trays and finisher area	Daily
	Clean the conveyance belt area	Daily or whenever paper width is changed. (See Note)
	Clean the image sensor and multi feed sensor	Before using or whenever necessary.

NOTE:

It is very important that the conveyance belt area be cleaned daily to avoid print quality degradation. This is especially true when using color toner.

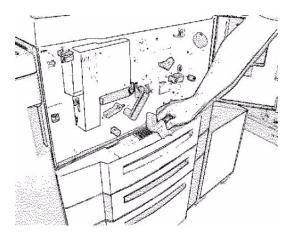
Cleaning the Printer Covers

- **1.** Wipe with a water-moistened, lint-free, soft cloth.
- **2.** Dry with a clean, lint-free soft cloth.



Cleaning the Inside of the Printer

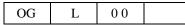
- **1.** Open the Front Cover.
- **2.** Using a dry, lint-free cloth, clean inside the Front Cover by wiping any visible toner away.



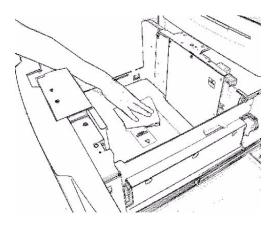
3. Close the Front Cover.

Cleaning Trays 1, 2 and 3, the MBT, and HCF

1. Open the tray and remove the paper.



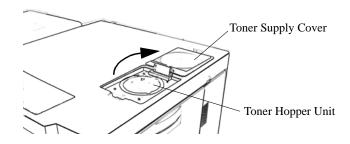
2. Clean inside the tray, especially the corners, by wiping any visible toner away with a dry lint-free cloth.



3. Load the paper back into the tray and close the tray.

Cleaning the Toner Bottle Joint

- 1. Open the Toner Supply Cover.
- **2.** Clean inside the Toner Supply Cover by wiping any visible toner away with a dry, lint-free cloth.



3. Close the Toner Supply Cover.

Cleaning the Conveyance Belt Area (Front and Rear Engine)

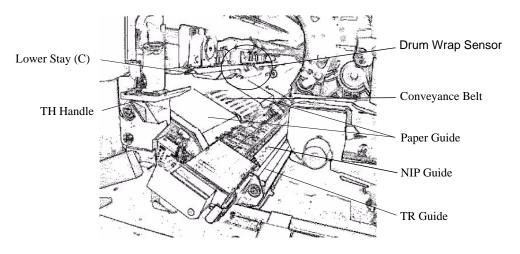
- **1.** Open the Front Cover.
- 2. Turn the TH Handle to the RELEASE position.
- **3.** Remove the Drum Unit. Refer to page 6-13 for instructions.

NOTE:

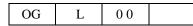
It is very important that the conveyance belt area be cleaned daily to avoid print quality degradation. This is especially true when using color toner. Do not touch the Drum Wrap Sensor and the hook of the Drum Wrap Sensor Holder, when the surrounding of the Drum Wrap Sensor is cleaned.



4. Clean the Paper Guide, TR Guide, and the Lower Stay (C), and NIP Guide by wiping any visible dust away with a dry lint-free cloth.



- **5.** Replace the Drum Unit.
- **6.** Turn the TH Handle to the LOCK position.
- 7. Close the Front Cover.



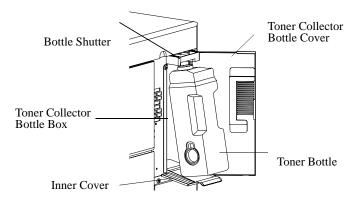
Cleaning the Toner Collector Bottle Area (Front and Rear Engine)

1. Turn off the power.

NOTE:

If the power is not turned off prior to removing the Toner Collector Bottle, the counter will be reset.

- 2. Open the Toner Collector Bottle Cover and the Inner Cover
- **3.** Remove the Toner Collector Bottle.
- **4.** Clean the Toner Collector Bottle Cover, Toner Collector Bottle Box, the surface of the Bottle Shutter, and the Inner Cover by wiping any visible toner away with a dry, lint-free cloth.

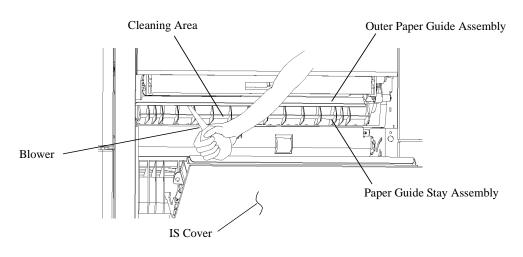


- 5. Replace the Toner Collector Bottle.
- 6. Close the Inner Cover and the Toner Collector Bottle Cover.

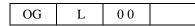


Cleaning the Image Sensor and Multi Feed Sensor (Front and Rear Engine)

- **1.** Open the IS Cover.
- **2.** Insert the top of the blower in the gap of the outer Paper Guide Assembly and the Paper Guide Stay Assembly.
- **3.** Squeeze the blower to force air into the area. Repeat approximately every 5 cm along the width of the Paper Guide.

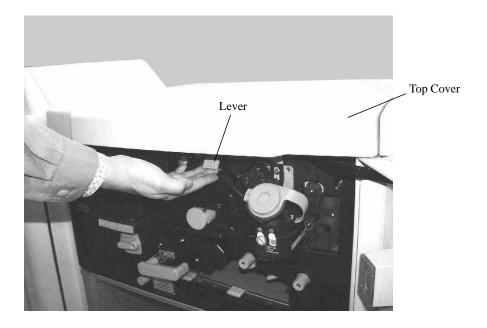


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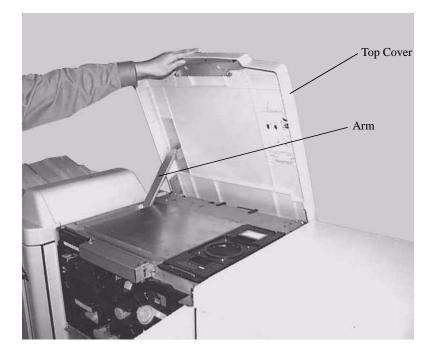


Replacing the Color Kit

- **1.** Open the Front Cover of the Rear Engine.
- **2.** Pull the lever to open the top cover.



3. Lift the top cover all the way up until the arm is locked.

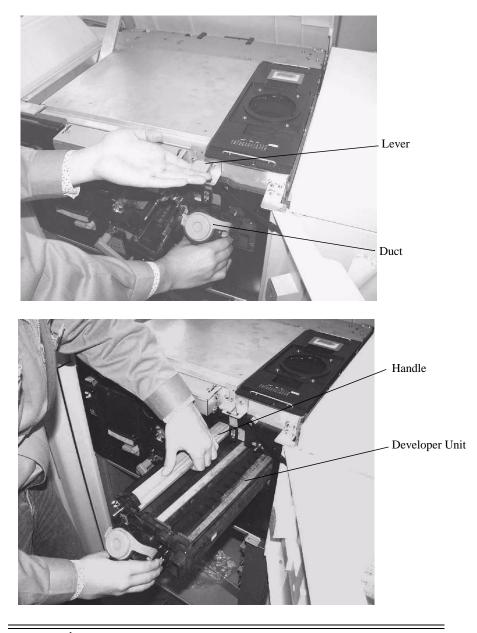


4. Remove the Drum Unit. See "Replacing the Drum Unit" on page 6-13.

6-48	Care and Maintenance				
		OG	L	0 0	

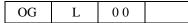
Remove the Developer Unit

- **1.** Lift up the Lever.
- **2.** Using the Developer Duct, slowly pull out the Developer Unit until the handle is accessible. Use the Handle and the Duct to completely pull out and remove the Developer Unit.



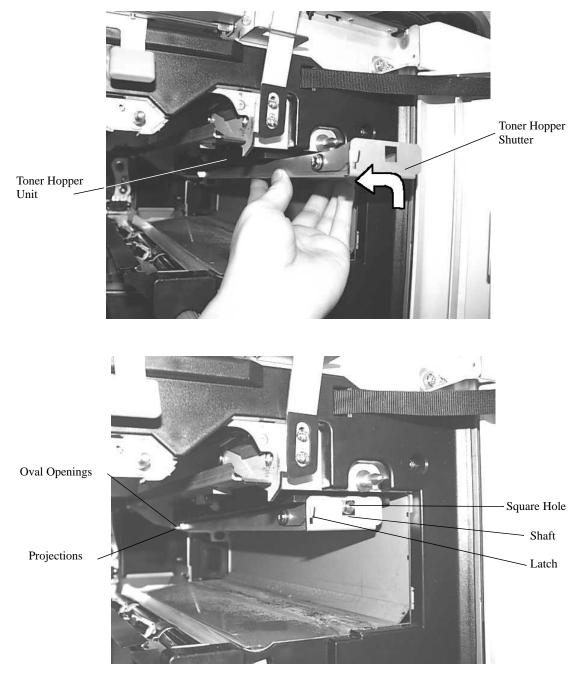
CAUTION! The Developer Unit is heavy. Use caution when lifting it.

Cover the Developer Unit with paper to protect it.



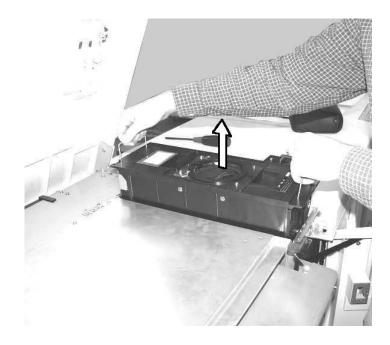
Attach the Toner Hopper Shutter

- 1. Slide the Toner Hopper Shutter toward the back and align the two projections on the Shutter with the oval openings on the Hopper Unit.
- 2. When the Shutter and Hopper Unit are aligned, push up to set the Shutter in place.
- **3.** Set the Latch by Installing the Shaft into the square hole on the front Side of the Shutter.

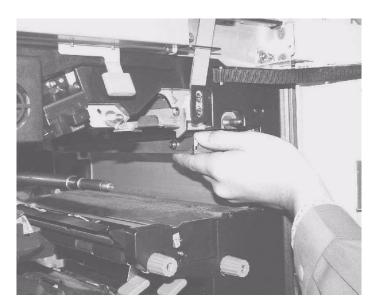




4. Pull out the Toner Hopper Unit using the two handles.



- 5. Install the new color Toner Hopper Unit in the reverse order.
- 6. Pull down the Latch and remove the Toner Hopper Shutter.



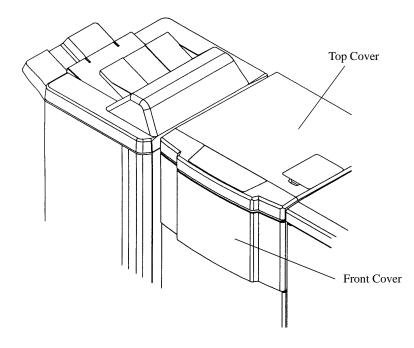
7. Install the new color Developer Unit in the reverse order. See page 6-49.



8. Lift the Arm and close the Top Cover.



- **9.** Press the area marked "A" to lock the Top Cover.
- **10.** Close the Front Cover.





Handling and Storing Supplies and Consumables

Paper

Proper handling and storing of paper are important to optimize the performance of the printer. For best results, follow the instructions below. See Appendix C for more details on purchasing, loading, storing, and troubleshooting paper.

When Purchasing

- Refer to Appendix C for paper specifications.
- Confirm that the paper complies with the specifications.

When Loading

- Be careful not to damage, crease, or fold paper when handling.
- Eliminate any damaged paper before loading paper into the tray.
- Do not load different types of paper into the same tray.
- Remove any paper previously loaded in the tray when loading new paper. Do not put new paper on the paper formerly loaded in the tray.

When Storing

- Wrap the remaining paper to keep the proper moisture content.
- Store the wrapped paper in an air-conditioned room. There should not be a significant temperature difference between a paper storage environment and a printer operating environment. It may cause paper jams.

When Paper Jams Frequently Occur

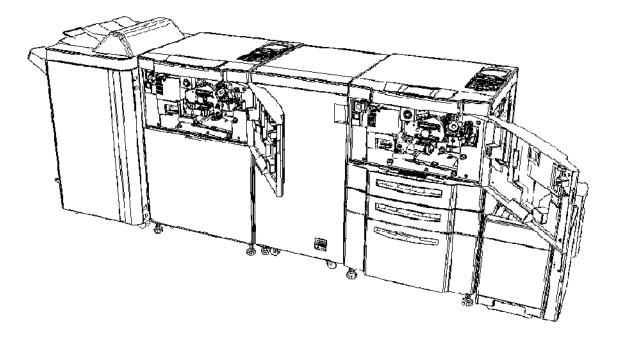
- Replace the paper. Even if paper brands are same, characteristics may be slightly different due to different environmental storage conditions.
- Turn over the paper in the tray. This should not be applied when using paper whose front side or back side is prearranged such as letterhead forms.

Care and Maintenance	6-53
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Replacing the Charger Unit (Rear Engine Only)

The OCP displays "Clean Charger Unit" when the charger unit needs to be replaced (every 200,000 images). The replace the charger unit, perform the following steps.

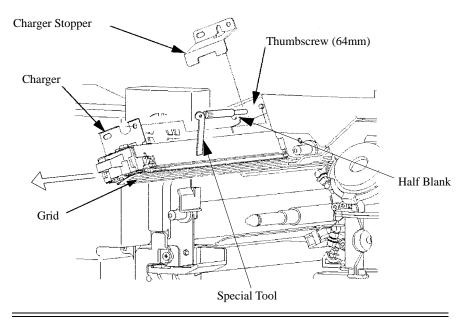
1. Open the Rear Engine Front Cover.



2. Remove the OPC drum.



3. Remove the charger stopper by removing the purple thumbscrew. (Using the special tool may make it easier to remove the thumbscrew.



CAUTION!

Take care not to touch the grid wires. Touching the grid wires with your fingers may cause the grid to become contaminated and may cause print quality problems.

4. To remove the charger unit, carefully pull it forward.

NOTE:

There is an extra charger unit in the accessory box. Store the used charger unit in the accessories box or other safe place. When your authorized service technician performs a 400K cleaning, he will clean the used charger unit for use again after 200K images.

- 5. Install the new charger unit
- 6. Install the charger stopper plate and secure it with the thumbscrew.

CAUTION!

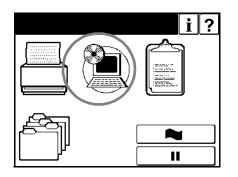
Ensure the holes in the stopper plate align with the raised locating dimples on the frame.

- 7. Carefully install the drum unit and secure with the drum locking knob.
- **8.** Close the rear engine front cover.

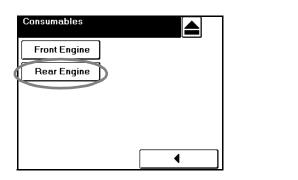


Reset Charger Counter

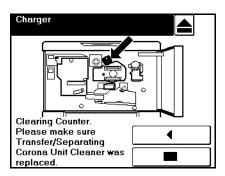
To reset the charger counter, make the following selections from the OCP: *Setup / Consumables / Rear Engine / Charger /*



	Setup	
	0CP	
	Service	
	System	
Ý	Consumables	\mathbf{P}
	Language	
	▶	•



	Consumables				
Q	Charger	\supset			
	Corotron				
	•			◀	





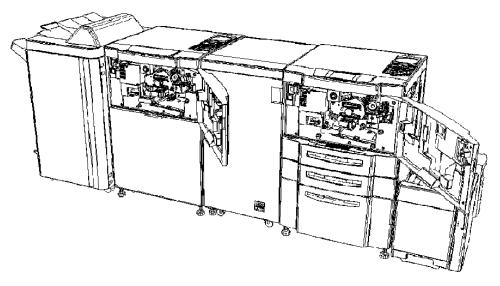
Replacing the Corotron Unit (Rear Engine Only)

The OCP displays "Clean the Corotron Unit" when it needs to be replaced (every 200,000 images). To replace the corotron unit, perform the following steps.

NOTE:

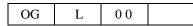
There is an extra corotron unit in the accessory box. Store the used corotron unit in the accessories box or other safe place. When your authorized service technician performs a 400K cleaning, he will clean the used corotron unit for use again after 200K images.

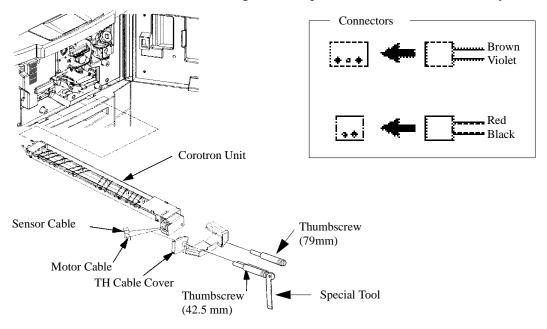
1. Open the rear engine front cover.



2. Open the transport deck assembly by turning the large purple handle down (clockwise).

Care and Maintenance 6-





3. Remove the 2 screws securing the black plastic cover on the TH assembly.

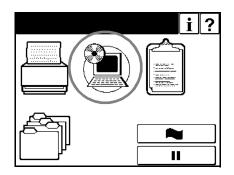
- **4.** Unplug the 2 connectors, disconnect the cable from the cable clamp located on the bottom side of the TH assembly, and remove the TH assembly.
- **5.** Press down slightly on the transfer/separation corotron assembly while pulling forward to remove it.
- 6. Install the new transfer/separation corotron unit.
- 7. Reconnect the cables.
- **8.** Reinstall the black plastic cover, securing it in place with the 2 new purple thumbscrews. (Using the special tool may help secure the thumbscrews.)
- 9. Gently close the transport deck handle by turning it up (counterclockwise).

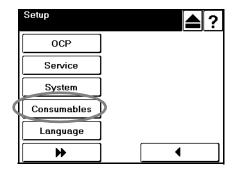
CAUTION! Ensure cable connectors are secure. Ensure the tab on the drum assembly fits into the slot on the transfer/ separation as the deck is closed. Gently close the transport deck to prevent possible CQ defects.

10. Close the front door.

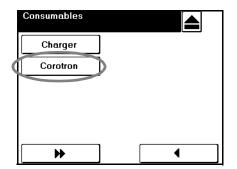
Reset the Corotron Counter

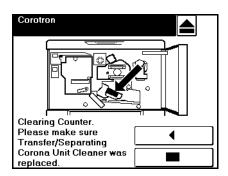
To reset the corotron counter make the following selections from the OCP: Setup / Consumable / Rear Engine / Corotron /

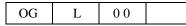




Consumables	
Front Engine	
Rear Engine	







Toner and Developer

Proper handling and storage of the toner bottle and developer bottle are important to optimize printer performance. For best results, follow the instructions below.

When Purchasing

 Use only toner and developer which are specified for the printer. Print quality may be degraded and troubles may occur if using toner and developer that does not meet the specification.

When Storing

- Store the toner bottle and developer bottle in a well air-conditioned place. If the temperature is over 104 F (40 C), the toner and developer may solidify. The recommended storing temperature is 14°F 104°F (-10 C~40 C). The recommended relative humidity is 5% to 80%. Do not store for longer than 3 years after the date of manufacture.
- Do not expose developer to the air. If exposed, developer may rust and degrade printing quality.



Detach Voltage Adjustment

The Detach Voltage is sensitive to elevation, humidity, and paper type. The default setting is "144"; however, it may be necessary to adjust the setting based on the conditions at the installation site. E118, E119, E128, and E134 errors are an indication that an adjustment is necessary.

The procedure for adjusting the detach voltage will depend on the software revision of your printer. Early revisions do not support individual tray adjustment. To determine which procedure to use perform the following steps:

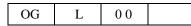
Select Printer / Options / >> / Detach Voltage / Front Engine

If individual tray adjustment is not supported the following screen will be displayed:

Detach Vo	oltage		▲?
Front 1			
Front 2			
Back 1			
Back 2			
		[•
Defau	lt		

If individual tray adjustment is supported, the following screen will be displayed:

Detach Voltage	İ
1	
2	
3	
мвт	
HCF	
All Trays	

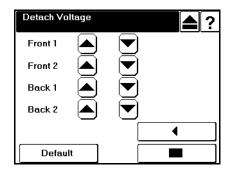


Individual Tray Adjust Not Supported

If individual tray adjustment is not supported, use the following procedure to adjust the Detach Voltage Settings:

1. Select Printer / Options / >> / Detach Voltage / Front Engine

Press the Default button to make the setting "144" for both the front and back pages.



- Perform blank duplex printing on 20 sheets of your paper or Select *Printer / Test Print / Print Quality / Text File 4%* and select the paper input tray and output tray.
- **3.** Observe whether the duplexed pages are output without an error and record observations.
- 4. Repeat Step 1 and set all four detach settings lower by an increment of "8" (136).
- 5. Repeat Step 2, recording observations.
- 6. Continue repeating Steps 1, and 2, reducing the setting in increments of "8" (128, 120, 112, 104, 96, 88, 80, 72, 64, 56) recording observations at each setting. The minimum detach voltage is 51.
- 7. Repeat Step 1 and set all four detach settings to "152".
- 8. Repeat Steps 2 and 3.
- **9.** Continue repeating Steps 1, 2 and 3, increasing in increments of "8" (160, 168, 176, 184, 192, 200, 208, 216, 224, 232, 240, 248) recording observations at each setting. The maximum voltage is 254.
- 10. From the observations made in Steps 6 and 9 determine the range of acceptable output (no errors). Make the final setting at the midpoint. For example, if errors occurred at settings of 104 and below and also at settings of 160 and above, make the final setting at 132. (104+160)/2=132.
- **11.** Press \blacksquare to set the value.
- 12. Repeat steps 1 through 11 for the Rear Engine.

NOTE:

Changes in ambient temperature may require further adjustment. As a guide, decrease the recommended value by 8 for every 7°F (4°C) increase in ambient temperature, and increase the recommended value by 8 for every 7°F (4°C) decrease in ambient temperature.



Individual Tray Adjust Supported

1. Select Printer / Options / → / Detach Voltage / Front Engine / Tray # or All Trays.

NOTE:

When All Trays is selected, any adjustment you make is common to all trays without having to select them individually.

Press the Default button to make the setting "144".

- Perform blank duplex printing on 20 sheets of your paper or Select *Printer / Test Print / Print Quality / Text File 4%* and select the paper input tray and output tray.
- **3.** Observe whether the duplexed pages are output without an error and record observations.
- 4. Repeat Step 1 and set all four detach settings lower by an increment of "8" (136).
- 5. Repeat Step 2, recording observations.
- 6. Continue repeating Steps 1, and 2, decreasing in increments of "8" (128, 120, 112, 104, 96, 88, 80, 72, 64, 56) recording observations at each setting. The minimum detach voltage is 51.
- 7. Repeat Step 1 and set all four detach settings to "152".
- 8. Repeat Steps 2 and 3.
- **9.** Continue repeating Steps 1, 2 and 3, increasing in increments of "8" (160, 168, 176, 184, 192, 200, 208, 216, 224, 232, 240, 248) recording observations at each setting. The maximum voltage is 254.
- 10. From the observations made in Steps 6 and 9 determine the range of acceptable output (no errors). Make the final setting at the midpoint. For example, if errors occurred at settings of 104 and below and also at settings of 160 and above, make the final setting at 132. (104+160)/2=132.
- **11.** Press \blacksquare to set the value.
- **12.** Repeat steps 1 through 11 for the Rear Engine.

NOTE:

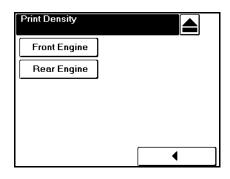
Changes in ambient temperature may require further adjustment. As a guide, decrease the recommended value by 8 for every 7°F (4°C) increase in ambient temperature, and increase the recommended value by 8 for every 7°F (4°C) decrease in ambient temperature.

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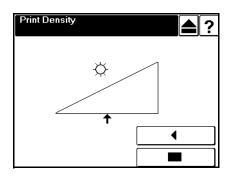
Print Density Adjustment

The print density is adjustable in five levels. Perform adjustment according to the following procedure.

1. Using the OCP select *Printer / Options / Print Density*. The following screen is displayed.



2. Select either "Front Engine" or "Rear Engine". The following screen is displayed.



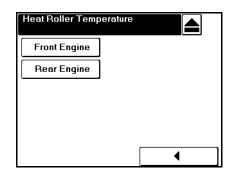
- **3.** The print density is adjustable in five levels, "Light", "Semi-Light", "Middle", "Semi-Dark" and "Dark". Select the desired print density level by pressing the triangle button on the OCP.
- **4.** After selecting, press $[\blacksquare]$ key to fix the value.



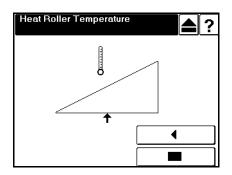
Heat Roller Temperature Adjustment

The heat roller temperature is adjustable in three levels. Perform adjustment according to the following procedure.

1. From the OCP, select *Printer / Options / Heat Roll Tmp.* The following screen is displayed.



2. Select either "Front Engine" or "Rear Engine". The following screen is displayed.



- **3.** The temperature is adjustable in three levels, "Low", "Normal" and "High". Select the desired temperature level by pressing the triangle button on the OCP.
- **4.** After selecting, press $[\blacksquare]$ key to fix the value.

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Laser Power Adjustment

The laser power is adjustable within the range from +15 to -15. Perform adjustment according to the following procedure.

1. From the OCP, select *Printer / Options / Laser Power Adj*. The following screen is displayed.

Laser Power Adj	
Front Engine]
Rear Engine]

2. Select either "Front Engine" or "Rear Engine". The following screen is displayed.

Laser Power Adj		?
Laser 1 🔺]
Laser 2 🔺) 💌]
Default]	

- **3.** The laser power is adjustable in 31 levels within the range from +15 to -15. Be sure to set the same value for "Laser 1" and "Laser 2". The laser line becomes narrower than the initial value by setting to the minus value. The laser line becomes wider than the initial value by setting to the plus value.
- 4. After selecting, press [\blacksquare] key to fix the value.

NOTE:					
The setting is reset to	"0"	by pressing	"Initial	Value"	key.



H Positioning Adjustment

H Positioning is set to either enable or disable for each tray. Perform adjustment according to the following procedure.

1. From the OCP select *Printer / Options / H Positioning*. The following screen is displayed.

H Positioning		i	?
1			
2			
3			
MBT			
HCF			
	•		

2. Select a tray. The following screen is displayed:

H Positioning	
Positioning	
Skew Detect	
	•

3. Select Positioning or Skew Detect and set to enable or disable. .

NOTE:

The positioning key is used for setting the H Positioning to enable or disable. When positioning is set to disable, Skew Detect is not available. Skew Detect is used to detect skew at the end of a long sheet of paper.

Care	and	Maintenance	6-67
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6-68 Care and Maintenance



General

- For the safety of the personnel and the product, operate the equipment according to the instructions in this user's guide. The manufacturer will not be responsible for any problems or damage that arise from improper use.
- Electrical specifications and safety regulations differ from country to country. Only purchase products and consumables designed to be used in your country. Do not take the product or consumables to other countries.

Laser Safety

This printer is certified as a Class 1 laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968. This means that the printer does not emit hazardous laser radiation.

Since radiation emitted inside the printer is completely confined within the protective housings and external covers, the laser beam cannot escape from the machine during any phase of user operation.

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 1976. These regulations apply to laser products marketed in the United States. The label on the printer indicates compliance with the CDRH regulations and must be attached to laser products marketed in the United States.

This printer is classified as a Class 1 laser product both under EN60825 and the Code of Federal Regulations, 1040.10 of Title 21.

LOUKAN 1 LASERLAITE CLASS 1 LASER APPARAT

Internal Laser Radiation

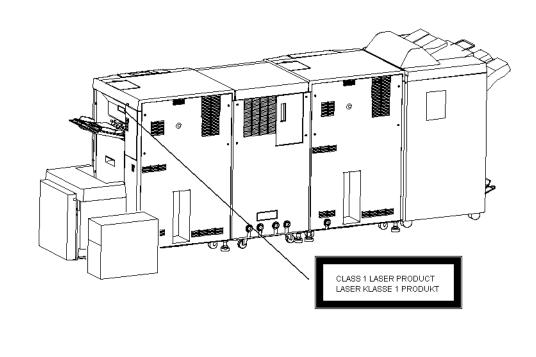
Maximum Radiation Power:5mW x 2 diodesWave Length:675nm

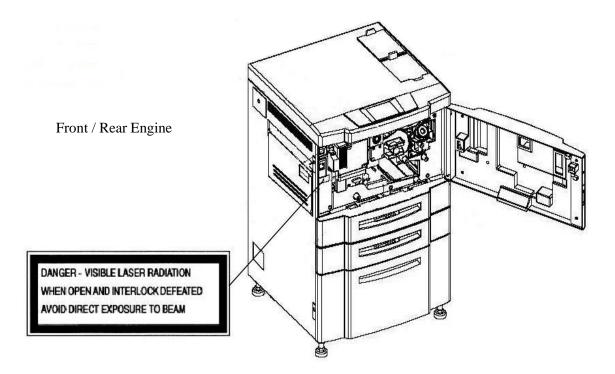
WARNING!

Use of controls, adjustments or performance of procedures other than those specified in this manual may result in hazardous laser radiation exposure.

Safety Information A-1

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Certifications

FCC Notice

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this user's guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference. If this occurs, users are required to correct the interference at their own expense.

Use of shielded cables is required to comply with Class A limits in Subpart B of Part 15 of FCC Rules.

Do not make any changes or modifications to the equipment other than those specified in this user's guide.

You may find the following booklet prepared by the Federal Communications Commission helpful: *How to Identify and Resolve Radio - TV Interference Problems*. This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

Canadian Certification

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

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

VCCI Notice (Japan)

This is a class 1 product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, you may be required to take corrective actions.

Safety Information A-3

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CE Mark

The CE mark applied to this product symbolizes Ricoh Printing Systems's declaration of conformity with the following applicable Directives of the European Union as of the dates indicated:

January 1, 1995: Council Directive 72/23/EEC amended by Council directive 93/68/ EEC, approximation of the laws of the member states related to low voltage equipment. January 1, 1996: Council directive 89/336/EEC, 92/31/EEC, approximation of the laws of the member states related to electromagnetic compatibility.

A full declaration of conformity, defining the relevant directives and referenced standards, can be obtained from your authorized local dealer.

This equipment has been tested and found to comply with the limits for a class A Information Technology Equipment in accordance with the European Standard EN55022.

These limits are designed to provide reasonable protection against unacceptable interference in either commercial or industrial environments. This equipment generates, uses, and can radiate radio signals and if it is not installed and used in accordance with the instructions detailed in this user's guide, it may cause unacceptable interference to radio communication installations and equipment. The operation of this equipment in a residential area is likely to cause unacceptable interference in which case you may be required to correct the source of the interference at your own expense.

In order to maintain compliance to the class A regulations, shielded cables must be used with this equipment. Operation of this equipment without shielded cables is likely to cause interference to radio and television receivers thereby degrading their reception.

Please be aware that changes and modifications made to the equipment without prior approval of the manufacturer could negate your permission to operate the equipment.

LAN, Parallel and Serial Interface Output Voltage

Interface	Output Voltage
10/100B-T Aux	2.2v - 2.8v
Parallel	Shall not exceed 5.5v
Serial	-14.3 - +14.3



When Installing and Relocating the Printer

Power Specifications

	Rated Voltage	Rated Frequency	Rated Current
ĺ	200-240V	50/60 Hz	Input 1: 12A Input 2: 12A

Power Cords

WARNING!

Connect the power plug only to a properly rated power outlet. Otherwise, a fire or shock hazard may result.

Never use multi-plug adaptors to plug multiple power plugs into the same power source. Be sure to operate the printer on a sole-use receptacle. Multiple connectors can cause overheating and a fire could result.

Ensure that the plug connection is free of dust. In a damp environment, a contaminated connector can draw a non-negligible amount of current that can generate heat and eventually cause a fire over an extended period of time.

To prevent the risk of electric shocks and personal injury, fire, and printer damage:

 Always use the power cord provided with your printer. When an extension power cord is required, always use a properly rated cord.

If the power cord is not provided, use the following types of power cords:

- For North America: 3 wires, Type SJT 3x14 AWG (3x1.33 mm²) or thicker Rated min. 250V/12A (with grounding plug, NEMA 6-15P).
- For Europe
 3 wires, min. 3x1.5 mm²
 Harmonized (<HAR>), Rated min. 250V/12A (with grounding plug).

WARNING!

The printer must be connected to the grounding power outlet for safe and proper operation.

Apparatet må kun tilkoples jordet stikkontakt.

Apparaten skall ansulatas till jordat uttag när den ansluts till ett nätverk.

Für einen sicheren und ordnungsgemäßen Betrieb muß der Drucker an eine geerdete Steckdose angeschlossen werden.

Do not attempt to rework, pull, bend, chafe, or otherwise damage the power cord.
 Do not place a heavy object on the cord.

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• Never touch a power cord with wet hands.

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- If your printer produces smoke, excessive heat, unusual noises or odors, or if any liquid is spilled into the printer, immediately switch off and unplug the printer.
- If the power cord is broken or insulated wires are exposed, be sure to get them replaced. (Do not use the damaged cord.)

CAUTION!

Never unplug or replug the printer while it is on.

- When unplugging the printer, grasp the plug instead of the cord.
- Be sure to switch off and unplug the printer before accessing its interior for cleaning or maintenance.
- When the printer is not used over an extended period of time, switch it off and unplug it.
- Once a month, unplug the printer and check that:
 - □ the power cord is plugged firmly into a receptacle.
 - \Box the power cord is not cracked or frayed.
 - □ the plug is not excessively heated, rusted, or bent.
 - □ the plug and receptacle are free of dust.

NOTE:

If you notice any unusual conditions, contact your service representative.

Positioning the Printer Safely

To prevent the risk of electric shocks and personal injury, fire, and printer damage:

• Switch off the printer before connecting the interface cable or optional accessory.

CAUTION!

Do not place the printer near heaters or volatile, flammable, or combustible materials.

- Place the printer on a level and sturdy surface that can withstand the printer's weight. If tilted, the printer may fall over and cause injuries.
- Do not place the printer in a hot, humid, dusty, or poorly ventilated environment.
- When moving the printer, be sure to unplug the power cord from the outlet. If the printer is moved with the power cord connected, it can cause damage to the cord.
- When moving the printer, do not tilt it more than 10 degrees. If tilted excessively, the printer may fall over and cause injuries.
- If you need to move the printer over a long distance, consult your Technical Representative.

Environmental Limit

- The printer is capable of operating normally within the following recommended environmental limits:
 - \Box Temperature range: 50 -89 F (10 -32 C).
 - □ Humidity range: 20-80% RH (no condensation).

NOTE:

Sudden temperature fluctuations can affect print quality. Rapid heating of a cold room can cause condensation inside the printer, directly interfering with image transfer.

Do not expose the printer to direct sunlight, or the printer's performance may decline.

	Safety	Information	A-7
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Operating Precautions

- Take care not to allow ties, sleeves, shirts and long hair to be caught in the printer while operating.
- Be careful not to touch the hazardous parts near the caution labels.
- Be sure to avoid accidentally powering on the printer or pressing switches on the operator's panel while operating the printer.
- Never touch the high voltage portions of the printer, where caution labels are attached, when the printer is on. It may cause personal injuries if accidentally touched.
- Make sure that the printer paper complies with the supplies specifications. Printing on paper which does not comply with the specifications may result in paper jams and print quality degradation.
- Properly load the paper into the hopper to prevent paper skew and paper jams.
- It is absolutely necessary to follow the procedures and instructions described in this manual in order to optimize the printer's performance and to assure its safe operation.

VORSICHTSMASSNAHMEN BEIM BETRIEB

- Passen Sie auf, daß sich Krawatten, Ärmel, Hemden und langes Haar beim Betrieb nicht im Drucker verfangen.
- Berühren Sie nicht die gefährlichen Teile im Bereich der Aufkleber mit den Warnhinweisen.
- Schalten Sie den Drucker nicht versehentlich ein, und drücken Sie während des Druckerbetriebs keine Schalter im Bedienerfeld.
- Berühren Sie bei eingeschaltetem Drucker unter keinen Umständen die Hochspannungsteile des Druckers, an denen Aufkleber mit Warnhinweisen angebracht sind.
- Vergewissern Sie sich, daß das Druckerpapier die Angaben für Materialen erfüllt. Drucken auf Papier, das diesen Angaben nicht entspricht, kann zu Papierstaus und Einbußen bei der Druckqualität führen. Versehentliches Berühren kann zu Verletzungen führen.
- Legen Sie das Papier sachgemäß in den Behälter ein, um Papierstaus und schiefen Einzug des Papiers zu vermeiden.
- Es ist underläßlich, daß Sie die in diesem Handbuch beschriebenen Verfahrensweisen und Anweisungen befolgen, um die Leistung des Druckers zu oprimieren und einen sicheren Betrieb zu gewährleisten.

SAFETY PRECAUTIONS

 Always keep the area around the printer tidy. Use the printer under the proper lighting (500-1,000 lux.). Keep sufficient space around the printer so the hoppers can be pulled forward. Space required in the vicinity of the printer is as follows:

Front side: 1.2 meters

Left, right and rear side: 1 meter

- Do not place anything on the printer.
- Do not open any covers during printing operation. It may cause personal injuries if moving elements or electrical parts are accidentally touched.
- Be particularly careful when working in the fuser unit area. Do not touch the inside of the fuser unit. The fuser unit becomes very hot (approx. 190 C) and it may cause personal injuries if accidentally touched.
- Toner and developer are comprised of powdery particles. Avoid inhaling toner or developer when it accidentally spills and circulates. If it spills on the floor, immediately clean it with water-damped cloth. Do not leave it on the floor. It may cause accidents if stepped on as they are slippery beads of metal.
- Limit your operations to those described in this manual. Contact the field engineer or service technician for further operations which are not explained in this manual.
- This equipment generates ozone. Long-term exposure should be limited to 0.1 ppm calculated as an 8 hr. time weighted average concentration. Provide proper ventilation. Avoid installing the unit in a small room (£ 1000 cubic feet). If installing in a space smaller than 1000 cubic feet, frequent ventilation is necessary

SICHERHEITSVORKEHRUNGEN

 Halten Sie im Bereich des Druckers stets Ordnung. Verwenden Sie den Drucker bei den richtigen Lichtverhältnissen (500-1,000 lux).
 Sorgen Sie für ausreichenden Platz um den Drucker herum, damit die Behälter herausgezogen werden können. Im Druckerbereich wird folgender Platz benötigt:

Vorderseite: 1.2 Meter

Links, rechts und auf der Rückseite: 1 Meter

- Legen Sie keine Gegenstände auf den Drucker.
- Öffnen Sie die Abdeckungen nicht während des Druckvorgangs. Versehentliches Berühren beweglicher oder elektrischer Teile kann zu Verletzungen führen.
- Seien Sie bei Arbeiten in Bereich der Fixiereinheit besonders vorsichtig.
 Berühren Sie auf keinen Fall das Innere der Fixiereinheit. Die Fixiereinheit wird sehr heiß (etwa 190 C) und versehentliches Berühren kann zu Verletzungen führen.

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- Toner und Entwickler bestehen aus pulverförmigen Partikeln. Vermeiden Sie das Einatmen von Toner oder Entwickler, wenn Substanzen aus Versehen verschüttet werden und in der Luft zirkulieren. Werden diese Substanzen auf den Boden verschüttet, entfernen Sie sie sofort rait einem mit Wasser angefeuchteten Tuch. Belassen Sie diese Substanzen nicht auf dem Boden. Dies könnte zu Unfällen führen, da Sie auf den schlüpfrigen Metallkügelchen ausrutschen könnten.
- Führen Sie nur die in diesem Handbuch beschriebenen Operationen aus. Setzen Sie sich mit dem zuständigen technischen Außendienst oder mit dem Kundendienst in Verbindung, wenn Sie Operationen ausführen möchten, die nicht in diesem Handbuch beschrieben sind.
- Dieses Gerät erzeugt Ozon. Die langzeitige Belastung solite auf 0.1 ppm. berechnet als 8-stündige mittlere Konzentration beschränkt sein. Gute Belüftung gewhären und das Gerät nicht in einem kleinen Raum (£ 1000 Kubikuß) aufstellen.

Wird es jedoch in einem kleinen Raum von weniger als 1000 Kubikuß aufgestellt, so ist es erforderlich, die Luft öfters aufzufrischen.



Care of Printer Supplies

- Store the paper, toner, and other supplies in a place free from direct sunlight and away from any heating apparatus. Keep them in a dry, cool, clean environment.
- Store paper that has been removed from its wrapper, but not loaded into the drawer, in a sealed, plastic bag in a cool, dark place.
- If your hands become soiled with toner, wash them with soap and water immediately.

Safety	Information	A-11
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A-12 Safety Information



What This Appendix Contains

This appendix contains specification information pertaining to the following topics.

- Base Printer
- Printing Speed
- Consumables



Specifications

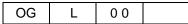
Base Printer

Design and specifications are subject to change without notice.

ltem	Specification
Imaging Method	Electro-Photography.
Exposure System	Semiconductor 2 laser beam (laser diode) scanning.
Image Resolution	600 x 600 dots per inch (dpi).
Controller	PowerPC 750 375 MHz
Printable Area	Full size of the paper
Controller	Egret controller with PowerPC 750 375 MHz
Monthly Print Volume	Up to 600,000 images (184 imp) Recommended maximum monthly print volume: 1,600,000 images
Nominal Voltage	200 to 240 V
Nominal Frequency	50 Hz or 60 Hz
Power Consumption	Standby: less than 1KW (each input) Printing: less than 2.4KW (each input)
Noise Level	70 dBA in operation. 60dBA in standby.
Operating Temperature and Humidity	Temperature range: 50 to 90 F (10 to 32 C). 68 - 77 F (19 to 25 C) recommended Humidity range: 20-80% RH (no condensation) (40 - 60% recommended)
Dimensions	1800 x 1008 x 665mm (H x W x D) (Printer) 400 x 465 x 494 mm (HCF)
Weight	990 lbs. (450 kg) (Printer) 42 lbs. (19 kg) (HCF)
Memory Capacity	256 MB
Product Life	Printer - 60,000,000 pages (30,000,000 images/print engine) or 5 years, whichever comes first.

Finisher

ltem	Specification		
Rem	Standard Finisher	Booklet Finisher	
Dimensions (W x H x D) Dimensions w/Tray Extended)	570 x 1095 x 656 mm 892 x 1,151 x 656 mm		
Weight Weight w/Inserter	5		
Function	Staple	Staple, Fold, Booklet	



Printing Speed

Paper size and printing speed are shown in the following tables. These speeds are applicable when printing 2 or more pages to a standard tray.

Black/Black	Printing
--------------------	-----------------

Paper S	Size	Simplex Tray 1, 2, 3, HCF ppm/ipm	Duplex Tray 1, 2, 3, HCF ppm/ipm	Simplex MBT ppm/ipm	Duplex MBT ppm/ipm
A5	SEF	Approx. 92/184	Approx. 184/184	Approx. 82/164	Approx. 164/164
B5	LEF	Approx. 92/184	Approx. 184/184	Approx. 82/164	Approx. 164/164
A4	LEF	Approx. 92/184	Approx. 184/184	Approx. 82/164	Approx. 164/164
A4	SEF	Approx. 50/184	Approx. 100/184	Approx. 41/164	Approx. 82/164
A4 Tab	LEF	Approx. 50/184	-	Approx. 41/164	-
B4	SEF	Approx. 50/184	Approx. 100/184	Approx. 41/164	Approx. 82/164
A3	SEF	Approx. 46/184	Approx. 92/184	Approx. 41/164	Approx. 82/164
Letter	LEF	Approx. 92/184	Approx. 184/184	Approx. 82/164	Approx. 164/164
Letter	SEF	Approx. 50/184	Approx. 100/184	Approx. 41/164	Approx. 82/164
Letter Tab	LEF	Approx. 50/184	-	Approx. 41/164	-
Folio	SEF	Approx. 50/184	Approx. 100/184	Approx. 41/164	Approx. 82/1644
Legal	SEF	Approx. 50/184	Approx. 100/184	Approx. 41/164	Approx. 82/164
Ledger	SEF	Approx. 46/184	Approx. 92/184	Approx. 41/164	Approx. 82/164
Statement	SEF	Approx. 92/184	Approx. 184/184	Approx. 82/164	Approx. 164/164
Executive	LEF	Approx. 92/184	Approx. 184/184	Approx. 82/164	Approx. 164/164
Super B	SEF	Approx. 42/184	Approx. 84/184	Approx. 41/180	Approx. 82/180
Custom		Approx.42/184- 92/184	Approx. 84/184 184/184	Approx. 41/180 82/164	Approx. 82/180 164/164

Black/Color Printing

Paper Size		Simplex Tray 1, 2, 3, HCF ppm/ipm	Duplex Tray 1, 2, 3, HCF ppm/ipm	Simplex MBT ppm/ipm
A5	SEF	Approx. 92/184	Approx. 92/184	Approx. 82/164
B5	LEF	Approx. 92/184	Approx. 92/184	Approx. 82/164
A4	LEF	Approx. 92/184	Approx. 92/184	Approx. 82/164
A4	SEF	Approx. 50/184	Approx. 50/184	Approx. 41/164
A4 Tab	LEF	Approx. 50/184	-	Approx. 41/164
B4	SEF	Approx. 50/184	Approx. 50/184	Approx. 41/164
A3	SEF	Approx. 46/184	Approx. 46/184	Approx. 41/164
Letter	LEF	Approx. 92/184	Approx. 92/184	Approx. 82/164
Letter	SEF	Approx. 50/184	Approx. 50/184	Approx. 41/164
Letter Tab	LEF	Approx. 50/184	-	Approx. 41/164
Folio	SEF	Approx. 50/184	Approx. 50/184	Approx. 41/164
Legal	SEF	Approx. 50/184	Approx. 50/184	Approx. 41/164
Ledger	SEF	Approx. 46/184	Approx.46/184	Approx. 41/164
Statement	SEF	Approx. 92/184	Approx. 92/184	Approx. 82/164
Executive	LEF	Approx. 92/184	Approx. 92/184	Approx. 82/164
Super B	SEF	Approx. 42/184	Approx.42/184	Approx. 41/180
Custom		Approx.42/184- 92/184	Approx.42/184 92/184	Approx. 41/180 82/164

NOTE:

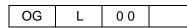
Depending on the amount of data in the print job, time to print may be delayed. If the OCP displays "Processing," the data has reached the printer. Please wait.



Consumables

Consumable	Life Expectancy	
Toner (Black)	45,000 images (4% coverage)	
Developer Mix (Black)	600,000 rotations (480,000 images)	
Toner (Color)	80,000 images (1.5% coverage)	
Developer Mix (Color)	600,000 rotations (480,000 images)	
Drum Unit	500,000 rotations (400,000 images)	
Fuser Unit	1,600,000 images	
Fuser Cleaning Web	320,000 images	
Toner Collector Bottle	Black: Every other refill of the toner. Color: Every refill of the toner.	
Staple Cartridge	5,000 staples	

The expected life of consumables follows.



B-6 Printer Specifications



Media Guidelines

Several types of media can be used in the printer, provided they meet certain guidelines. This appendix provides criteria for purchasing print media. You will also find guidelines for printing on special print media.

General Media Recommendations

Use high-quality xerographic paper for printing applications. The paper should be of good quality, free of cuts, nicks, tears, spots, loose particles, dust, wrinkles, voids, and curled or bent edges.

There are many brands of high quality xerographic paper available to choose from. Refer to "Paper Specifications" on page C-2 when purchasing paper.

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Paper Specifications

Characteristics	Recommendation	
Paper Grade	No. 1 or No. 4 Xerographic (Note 1)	
Fiber Composition	100% chemical wood pulp	
Color	White or pastel color	
Ash Content	18% maximum (Notes 2 and 4)	
Filler	Kaolin or china clay (aluminosilicate) or calcium carbonate. Titanium dioxide or magnesium silicate may be added to improve brightness.	
Grain Direction	Parallel to the long dimension (grain long)	
CaCO ₃ Content	0% (Paper that contains $CaCO_3$ can drastically reduce fuser life.)	
Cutting Method	Rotary precision cut (Lennox, Will, or equivalent)	
Cutting Tolerance	Length and width: \pm 0.787 mm (\pm 0.031 in.) Squareness: all corners 90° \pm 0° 6¢	
Basis Weight	17 to 90 lb. (64 to 163 g/m ²) (See Notes 3 and 4)	
Caliper	17 to 19 lb. (64 to 72 g/m ²): 3.5 to 5.0 mils (90 to 127 mm) 20 to 24 lb. (75 to 90 g/m ²): 3.2 to 4.0 mils (81 to 102mm)	
Smoothness (Sheffield)	17 to 19 lb. (64 to 72 g/m ²): 70 to 170 Sheffield units 20 to 24 lb. (75 to 90 g/m ²): 100 to 200 Sheffield units	
Porosity (Gurley)	10 sec./100 ml minimum	
Coefficient of Static Friction	0.35 to 0.62 (Notes 3 and 5)	
Surface Sizing	Starch - Do not use synthetic surface sizing	
Internal Sizing	Acid Rosin or synthetic (alkylketene dimer or alkyl-succinic anhydride)	
Stiffness (Taber)	17 to 19 lb. (64 to 72 g/m ²): MD 1.4 min./CD: 0.5 min. 20 to 24 lb. (75 to 90 g/m ²): MD 1.7 to 4.5 min./CD: 0.8 to 2.4 min.	
Moisture Content	3.7% to 5.5% by weight (Notes 3 and 4)	
Surface Resistivity	5×10^9 to 1×10^{12} ohms (Notes 3 and 6)	

NOTES:

- 1. The No. 1 or No. 4 designation applies only in the U.S.
- 2. Testing method Technical Association of the Pulp and Paper Industry (TAPPI).
- 3. Testing method American Society for Testing and Materials (ASTM).
- 4. Testing method International Organization for Standardization (ISO).
- 5. Use 127 mm/min. (5.0 in./min.) pull rate.
- 6. Isolate the test specimen from the metal backing plate with a piece of smooth, nonconductive polyester film, at least 0.254 mm (0.010 in.) thick; use 100 volts.

Paper Weight

Paper weight (also referred to as basis weight) for the U.S. market is measured as the weight in pounds of a ream of paper in the basic size for that grade of paper. The basic size differs between the various grades of paper. For cross reference information of basis weight for different paper types, see the table below.

Using the metric system, basis weight is measured as the weight of one square meter of paper and is expressed in grams per square meter or g/m^2 .

PAPER TYPE (GRADE) U.S. MARKET				METRIC
	BOND* LEDGER* XEROGRAPHIC LASER	OFFSET*	INDEX*	
BASIC SIZE	17 in. x 22 in. 432 x 599 mm	25 in. x 38 in. 635 x 965 mm	25.5 in. x 30.5 in. 648 x 775 mm	g/m ²
BASIS WEIGHT	17 20 24 28 32 36 40 42	43 50 60 70 80 90 100 105	35 42 50 58 67 75 83 90	64 75 90 105 120 135 150 163

General media weight guidelines for the printer are:

NOTES:

1. Commercially available paper is in bold.

2. Paper denoted with (*) should not be used unless specifically formulated for laser printers. Refer to page C-2 for additional information.

3. All weights are for 500 sheets.

Paper Color

Colored paper refers to pastel-colored paper only. Dark colors may affect printer operation. Colored paper should meet the same specifications as white. It is also recommended that colored paper be tested for potential problems before ordering large quantities.

Paper Composition

Use paper made from 100% chemical wood pulp. Paper that contains mechanicallypulped wood or cotton is not recommended due to natural impurities, such as CaCO₃, that can contaminate the surface of the photoconductor, thereby decreasing the life of the photoconductor and/or the fuser.

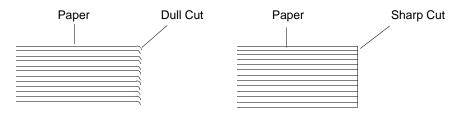
Do not use coated paper containing material that will melt, vaporize, offset, discolor, or release hazardous emissions when exposed to high temperatures.

CAUTION!

Do not use paper that contains $CaCO_3$ as it can drastically reduce fuser life.

Paper Cut

Paper cut is another significant factor affecting printer performance. The cut sheet is produced by cutting a larger stack of paper. If a dull cutter is used, the paper will have ragged edges, or what is called a "burr." This burr can cause such problems as paper jam, multiple feed, and large amounts of paper dust. Refer to "Paper Specifications" on page C-2 for additional information.



Paper Friction

The frictional properties of paper are very important for reliable paper picking. Improper friction properties can cause poor pick up and multi-sheet feeding. High quality xerographic paper has uniform friction. Refer to "Paper Specifications" on page C-2 for additional information.



Paper Smoothness

Paper smoothness affects print quality and paper handling. Paper should not have a rough texture. A rough texture provides poor toner adhesion, particularly in "black fill" areas. Neither should the paper be too smooth, as this can also affect toner adhesion. Paper that is too smooth has inadequate friction and can cause paper handling difficulties. Do not use paper with embossed or raised surfaces. Spotty printing and misfeeding may occur. Refer to "Paper Specifications" on page C-2 for additional information.

Paper Fusing

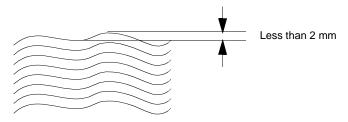
Paper used in the printer must withstand the effects of the fusing process. It should not melt, discolor, vaporize, offset, or delaminate at the following temperature for 1/2 second: $205^{\circ}C$ ($401^{\circ}F$).

Moisture

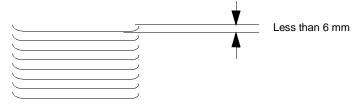
Moisture affects both paper curl and print quality. Excessive moisture can cause the following things:

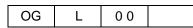
- Wavy edges
- Tight edges
- Paper curl
- Faded printing

An increase in humidity can cause paper to develop wavy edges. This occurs because the edges absorb moisture while the rest of the ream remains unaffected. This can cause paper skewing and inability to pick paper. Wave is measured as shown below. Do not use paper with a wave of more than 2 mm.



If there is a decrease in humidity the edges can lose moisture. This causes them to contract resulting in tight edges. Tight edges are measured as shown below. Do not use paper with tight edges of more than 6 mm.





Paper Curl

Paper curl is a very significant factor in printer performance. It can affect the printer in the following ways:

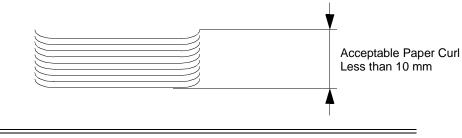
- Paper jam, paper skew and ability to be picked up
- Paper stacking uniformly in the output stacker
- Paper wrinkles through the heat roller (fuser).

Nearly all paper has curl or a tendency to curl. Curl can occur after the paper passes through the printer's fuser where it is exposed to high temperatures. In most paper, curl results from unusually large, sudden, or uneven changes in the moisture content.

Acceptable paper curl is less than 10 mm.

How to measure paper curl:

- 1. Print simplex, face down, less than 5% print density.
- **2.** Place paper, curl side up, on a flat surface.
- **3.** Measure from the table to the top of the curl as shown below.



NOTE:

Measurement must be performed with 2 minutes of printing.

How to Avoid Paper Curl

- Use high-quality xerographic paper.
- Store the paper in a moderate environment (40% to 60% relative humidity).
- Minimize humidity changes throughout the day in the printer room.
- Minimize the humidity difference between the paper storage area and the printer room. If the humidity difference is considerable, move the paper into the printer room a few days before to allow the paper to adjust to the printer room environment.
- Wrap the unused paper properly in moisture-resistant wrappers to protect the paper from moisture absorption or loss.

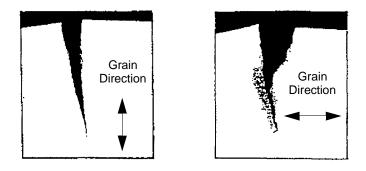


Recycled Paper

Recycled paper is made from used paper. The used paper is dissolved into fibers and then mixed with new paper fibers. However, various kinds of low-grade used paper (such as newspapers and magazines) are added to high-grade old paper. The paper manufacturer must have a high level of expertise and exercise strict controls regarding the use of used paper in recycled paper production. Therefore, it is recommended that paper sold as xerographic recycled paper also be sufficiently tested before using. The most important factor is the length of time the paper can keep its stabilized quality. It is recommended that a small sample (about 2,000 sheets) of recycled paper be tested in the printer and the reliability in paper feed and print quality is confirmed continuously over several months.

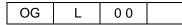
Grain Direction

The direction of paper fibers greatly affects paper curl and deformation. High quality xerographic paper is manufactured with the fibers oriented evenly in the same direction (grain long). The direction of the grain can be determined by tearing the paper. A clean tear indicates the grain direction as shown below.



Paper Smoothness

Paper smoothness affects print quality and paper handling. Paper should not have a rough texture. A rough texture provides poor toner adhesion, particularly in "black fill" areas. Neither should the paper be too smooth, as this can also affect toner adhesion. Paper that is too smooth has inadequate friction and can cause paper handling difficulties. Do not use paper with embossed or raised surfaces. Spotty printing and misfeeding may occur.



Special Media

The printer can use special media that has been designed and treated for xerographic use.

- Preprinter paper
- Prepunched paper
- Adhesive labels
- Perforated paper
- Tab paper
- Transparencies

It is recommended that a small sample (500 to 1000 sheets) of the special paper be tested before production quantities are purchased. Testing small samples can give a fairly good indication of what to expect in terms of print quality and toner adhesion; however, only long term tests involving several thousand sheets can begin to provide reliable data about characteristics like environmental changes, paper path reliability, paper dust contamination, loose filler, etc. It is recommended that initial orders of special supplies be limited to a 30-60 day supply until it has have proven to perform well over a long period of time.

Preprinted Paper

It is very important to work closely with the paper supplier when designing and ordering preprinted paper. To avoid problems with preprinted forms, observe the following guidelines:

- Forms must be printed with heat-resistant ink that will not melt, vaporize, delaminate, or release hazardous emissions when subject to heat. Refer to "Paper Fusing" on page C-5 for additional information.
- Minimize the amount of ink used in printing. Avoid print designs that use large quantities of ink. Perform screen printing if a large area needs to be printed.



Ink Recommendations

Ink used in preprinting should be non-volatile and oily. Ink suitable for pre-printing is cured by:

- Ultraviolet or heat (cured for 1 day)
- Oxidative polymerization (cured for 7 days)
- Ink cured by heat (Tinplate Ink)

Before using preprinted forms, make sure the ink is completely cured to prevent it from transferring to the printer's rollers and contaminating the internal printer mechanism.

The following inks are not suitable for preprinting:

- Quick set ink
- Ink dried by evaporation
- Cold set ink
- Ink dried by sedimentation or deposition
- Ink dried by penetration

NOTE:

Preprinted paper should still meet the paper specifications after the preprinting process is complete.

Paper Curl in Preprinted Paper

Preprinting can result in paper curl. Generally, the amount of paper curl depends on which side of the paper is printed first. Refer to "Paper Curl" on page C-6 for more information.

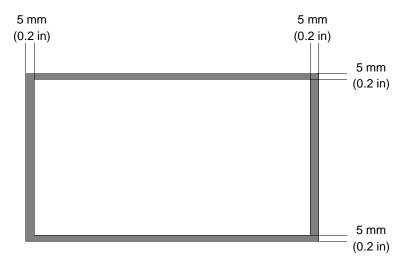
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Prepunched Paper

Prepunched paper should be flat and without deformation. Do not use paper with ragged or damaged hole edges. Any paper pieces resulting from the punching operation and paper dust should be removed before using.

Use prepunched paper with holes that conform to the following specifications:

- Maximum of four holes.
- Maximum hole diameter of 8.0 mm (0.315 in.).
- Holes must not be located in or protrude into the shaded area shown below.





Adhesive Labels

An adhesive label is paper with a pressure-sensitive adhesive backing. Label stock consists of three components: the top or face sheet, the adhesive, and the liner or carrier sheet, sometimes referred to as the backing. Note the following points about label stock:

- When exposed to the heat of the fuser, the label stock should not curl significantly, and the adhesive should remain stable so that it does not release any hazardous emissions. Refer to "Paper Fusing" on page C-5 for more information.
- No adhesive should be exposed between the labels or along the edge of the label backing.

CAUTION!

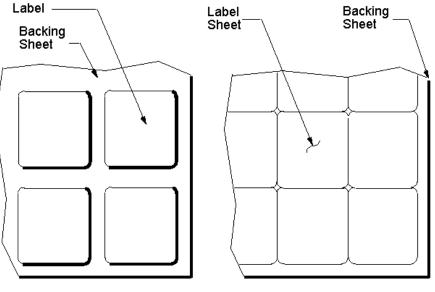
Adhesive that comes in contact with the printer may contaminate the photoconductor and the internal printer mechanism. To test label stock for adhesive exposure, press a sheet of plain paper against a sheet of label stock. The plain paper should not adhere to the label stock at all.

- Do not use labels with wrinkles, bubbles or any indication of delamination.
- Fan the label stock before loading it into the tray.
- Do not use label stock when printing in duplex mode.
- Do not use label stock that has some of the labels removed.
- Purchase minimum quantities of label stock to avoid the need to store it for longer than 6 months from the date of manufacture.
- Test any label stock you are considering to verify its performance in your printer.

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Adhesive Label Configuration

The illustration on the left shows label stock with space between the individual labels. This can cause paper jams and/or labels to peel off during the printing process. The illustration on the right shows the recommended label stock without spaces between the individual labels. Refer to "Adhesive Label Specifications" on page C-13 when purchasing label stock.



Not Recommended

Recommended

Storing Labels

- Store the labels in a clean, dry location where the temperature can be maintained at 18° to 24°C (64° to 70°F) and the relative humidity does not exceed 55%.
- Allow the labels to adjust to the printer room environment before opening the label carton or package. Move the labels into the printer room at least 24 hours prior to opening the carton or package.
- Leave the labels in the original package until printing is ready to begin. Replace the unused labels in the original package and then reseal the package with tape or store the unused labels in a plastic bag.
- Do not leave labels in the hopper of an inactive printer overnight or for long periods of time.
- Use the labels on a first-in, first-out basis.



Adhesive Label Specifications

Characteristics	Recommendation	
Total Basis Weight Notes 2 and 4	42 lb. (160 g/m ²) (includes face sheet, adhesive, and carrier)	
Caliper Notes 1, 2, and 4	5.7 mils (145 mm) maximum (includes face sheet, adhesive, and carrier)	
Face Stock Smoothness (Sheffield) Notes 1, 2, and 3	100-200 Sheffield units	
Coefficient of Static Friction	0.35 to 0.62	
Surface Sizing	Starch - Do not use synthetic surface sizing	
Internal Sizing	Acid rosin or synthetic (alkylketene dimer or alky-succinic anhydride)	

Use the following specifications when purchasing label stock.

NOTES:

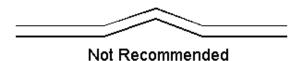
- 1. Testing method Technical Association of the Pulp and Paper Industry (TAPPI).
- 2. Testing method International Organization for Standardization (ISO).
- 3. The test must be conducted on a large, unscored section of face stock to prevent interference by the score lines.
- 4. *Refers to the adhesive label, including the face stock, adhesive, and the carrier sheet.*

Paper Specifications	C-13
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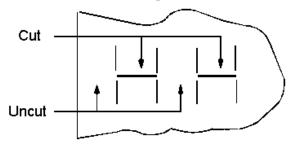
Perforated Paper

A perforation is a series of holes punched through the paper to aid in the separation of one piece from another. Perforated paper can cause jams, misfeeds, and even printer damage. The following guidelines should be used when ordering perforated paper:

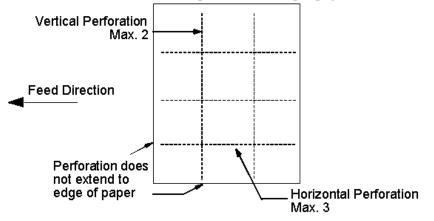
- Perforations should be free from any burrs and paper dust to avoid multiple feed, contamination, or paper jam problems.
- Avoid use of perforations that are not flat.



• The ratio of cut to uncut in a perforated line should be 1:1.

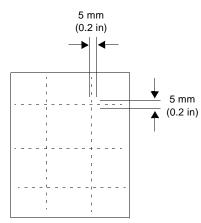


- Perforations must not extend to the edge of the page. The minimum distance from perforation to edge of the pages is 50 mm.
- The maximum number of perforated lines per page is 3 horizontal and 2 vertical.





• Do not print within a 5 mm area around the perforations.



Tab Stock

The following sizes and weights of tab stock are supported.

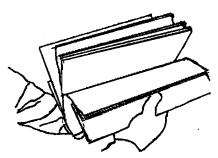
Tab Cut	Paper Size	Paper Weight
3-cut	A4/Letter	42 lb. (163 g/m ²)
5-cut	A4/Letter	42 lb. (163 g/m ²)
8-cut	A4/Letter	42 lb. (163 g/m ²)

Transparencies

Transparency stock is used primarily to create images that can be used with projection equipment. Transparencies are made from polyester film that has been specially coated to allow toner to stick to it. Transparencies cannot be printed in duplex mode.

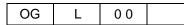
When using transparencies, the following suggestions may improve performance.

• To reduce sticking, fan the transparencies before loading.



• If excessive paper jams should occur in the paper path after the fusing process, load transparencies in the MBT and print them in face-up mode.

Paper Specifications C-15

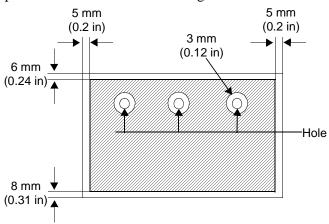


Printing Guidelines

Printable Area

Printable area means the area of the page on which you can print. Print quality can degrade when printing outside the following print area:

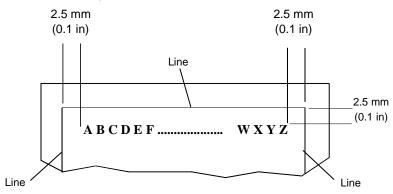
- The printable area is 6 mm (0.24 in) from the top, 8 mm (0.31 in) from the bottom, and 5 mm (0.2 in) from the left and right sides of the paper.
- The printable area is 3 mm (0.12 in) from the edge of any punched holes to minimize printer contamination.



• The printable area is marked with diagonal lines.

Preprinted Lines

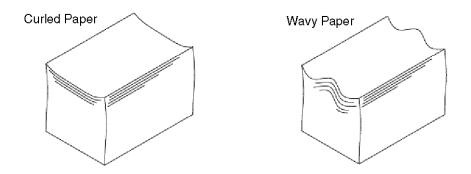
When using a form with preprinted lines the text must be placed a minimum of 2.5 mm (0.10 in) away from the lines.





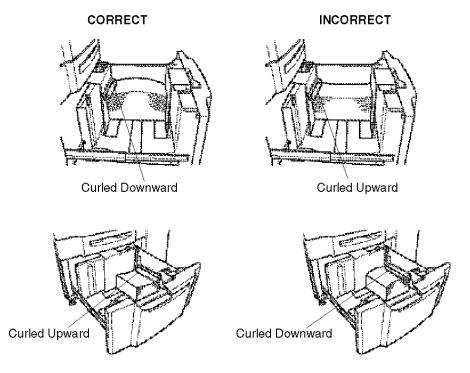
Proper Paper Handling

Paper is easily affected by storage conditions such as temperature and humidity. If the proper moisture content of the paper is not maintained, the paper may become deformed and cause paper jams.



Take the following precautions to avoid paper problems:

- **1.** Unwrap paper just before printing. The packaging is made of moisture-proof materials to protect the paper from humidity.
- 2. If the paper is curled or warped, load the paper as shown below.

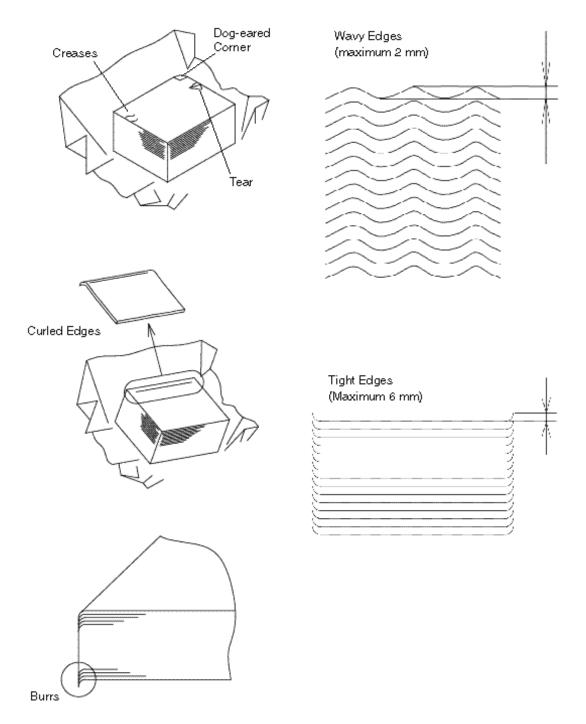


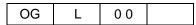
3. Check for paper curl that may have occurred during the night or when air conditioners or ventilators have been turned off for an extended period of time. If the paper has curled, approximately 200-300 sheets from the top of the pile should be turned over, as shown above, or removed.



Check Paper Quality

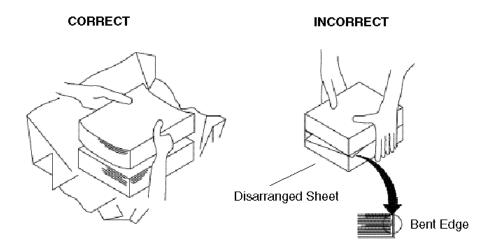
Carefully examine the paper when unwrapping or before loading into the tray. Discard paper with creases, tears, dog-eared corners, curled edges, wavy edges, or tight edges as it may cause paper jams or paper skewing.



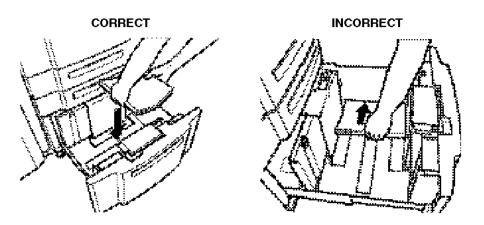


Loading Paper

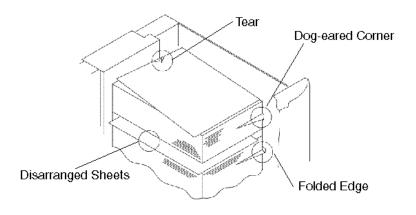
1. Do not pick up or hold too much paper at one time. For example, when loading 1000 sheets of paper, load them 200-250 sheets at a time.

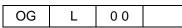


2. Gently place the paper vertically in the tray. Do not slide the paper into the tray.



Check to see that paper is correctly loaded. Look for tears, disarranged sheets, folded edges or dog-eared corners that may have occurred during loading.





Paper Specifications C-19

C-20 Paper Specifications



Adjust the stapling and folding position if the folding unit is connected to the Finisher.

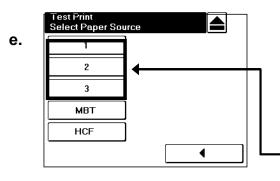
Test Print

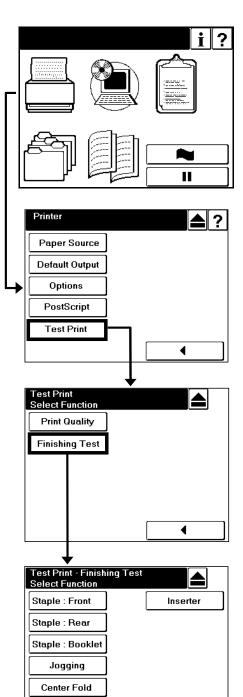
- **1.** Power on the Printer.
- **2.** Set the paper in the desired Hopper.
- **3.** Execute Test Print.
 - **a.** Select Printer Menu on the Main Menu screen.
 - **b.** Select Test Print.
 - c. Select Finishing Test.
 - d. Select Saddle Stitch.
 - **e.** Select the Paper Source in which you've set the paper.
- **4.** The printer starts printing and a booklet is delivered to the booklet tray.
- **5.** Check the folding position of the booklet.

FOLD/STAPLE ACCURACY		
Between staple line and fold line	1.3mm (max)	
Between staple line and center line	+/- 1.3mm (max)	
Between fold line and center line	+/- 1.3mm (max)	

If the folding position is incorrect, begin the adjustment procedure on page D-2.

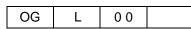
If the folding position is correct, begin the Staple Adjust procedure on page D-5.





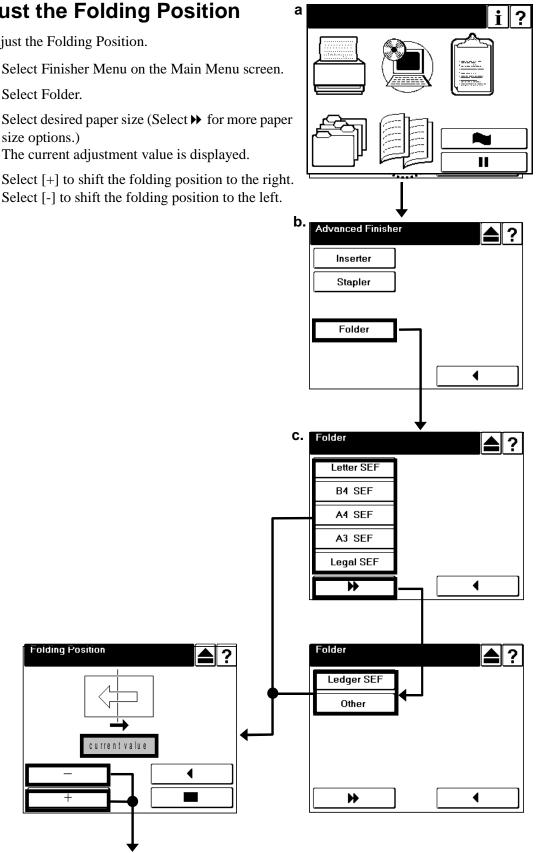
∢

Saddle Stitch

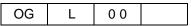


Adjust the Folding Position

- **1.** Adjust the Folding Position.
 - a. Select Finisher Menu on the Main Menu screen.
 - **b.** Select Folder.
 - **c.** Select desired paper size (Select \rightarrow for more paper size options.)
 - **d.** Select [+] to shift the folding position to the right. Select [-] to shift the folding position to the left.



d.

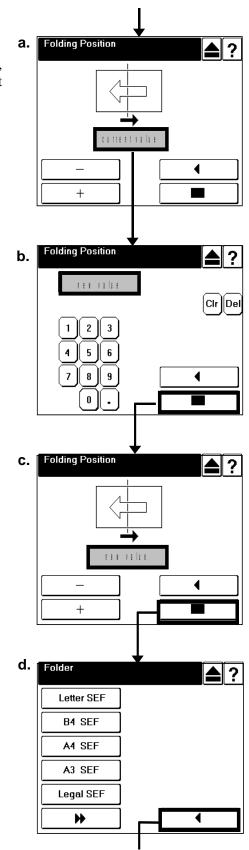


2. Calculate an adjustment value.

How to calculate:

If adjusting the folding position largely by 0.5mm, add 0.5 to the current adjustment value to arrive at the new adjustment value.

- **a.** Select current value.
- b. Input the "new adjustment value" (calculated value) using the 10-key pad and press Enter[■].
- **c.** Press Enter [■].
- **d.** Select Previous Menu [◀].



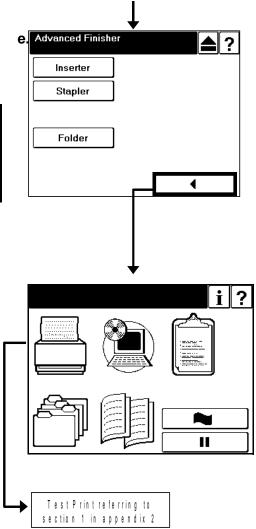
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- e. Select Previous Menu [◀]. The display will return to the Main Menu Screen.
- **3.** Execute Test Print to check the folding position. See page D-1.

FOLD/STAPLE ACCURACY		
Between staple line and fold line	1.3mm (max)	
Between staple line and center line	+/- 1.3mm (max)	
Between fold line and center line	+/- 1.3mm (max)	

If the folding position is not correct repeat the adjustment procedure.

When the folding position is correct begin the Staple Adjust procedure on page D-5.





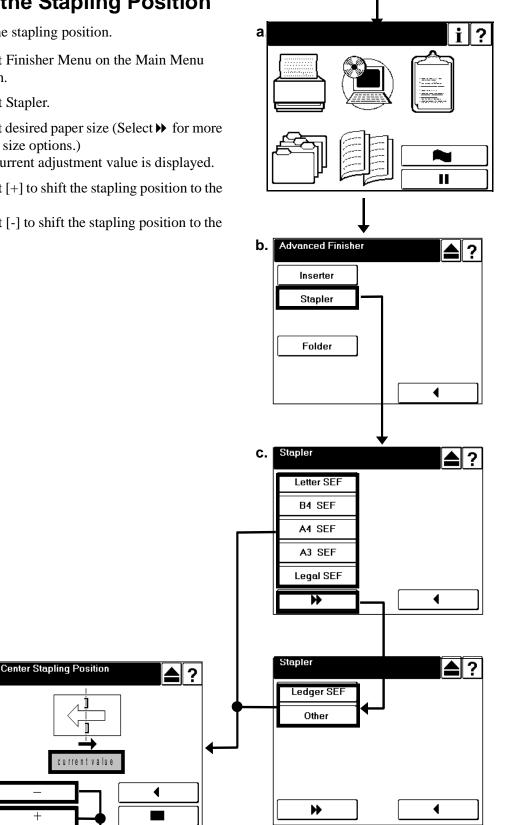
Adjust the Stapling Position

- **1.** Adjust the stapling position.
 - a. Select Finisher Menu on the Main Menu screen.
 - **b.** Select Stapler.

d.

- **c.** Select desired paper size (Select \rightarrow for more paper size options.) The current adjustment value is displayed.
- **d.** Select [+] to shift the stapling position to the right.

Select [-] to shift the stapling position to the left.

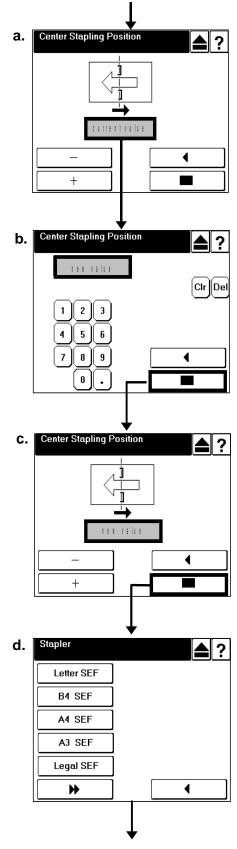


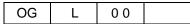
2. Calculate an adjustment value.

How to calculate:

If adjusting the stapling position largely by 0.5mm, add 0.5 to the current adjustment value to arrive at the new adjustment value.

- a. Select current value.
- b. Input the "new adjustment value" (calculated value) using the 10-key pad and press Enter[■].
- **c.** Press Enter [■].
- **d.** Select Previous Menu [◀].



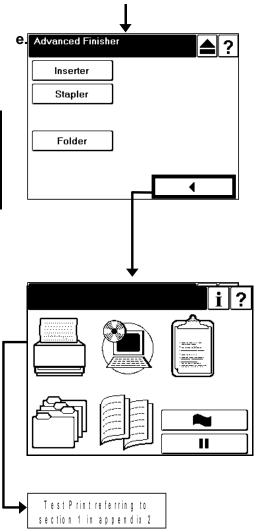


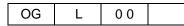
- e. Select Previous Menu [◀]. The display will return to the Main Menu Screen.
- **3.** Execute Test Print to check the folding position. See page D-1.

FOLD/STAPLE ACCURACY		
Between staple line and fold line	1.3mm (max)	
Between staple line and center line	+/- 1.3mm (max)	
Between fold line and center line	+/- 1.3mm (max)	

If the stapling position is not correct repeat the adjustment procedure.

When the stapling and folding positions are correct repeat the procedure for all other paper sizes.





D-8 Finisher Adjustments



Numbers

10/100 BaseT. IEEE 802.3 specification, using unshielded twisted pair wiring and running at 10/100 Mbps.

A

ANSI. *American National Standards Institute.* The coordinating body for voluntary standards groups within the United States. ANSI is a member of the International Organization for Standardization (ISO).

AppleTalk. A series of related communications protocols introduced and maintained by Apple Computers.

ASCII. *American Standard Code for Information Interchange*. A standardized coding system for assigning numerical codes to letters and symbols.

Auto Cascade. Automatically chooses the next paper tray when the first tray is empty.

B

Baud. A unit of speed in data transmission equal to one bit per second.

Bi-directional. Bi-directional parallel signals allow printer status messages to appear on the computer screen.

Bit. A binary digit (0 or 1), which is the smallest unit of information used by a printer or computer.

Bits per second (bps). Not same as *baud*.

Byte. A unit of information consisting of 8 bits.

С

Cache memory. Dynamic memory used for short term. Allows rapid access to frequently used data.

Cancel. A button on which the user clicks to end a specific process or action.

CD-ROM. Compact Disc Read-only Memory.

Centronics Parallel. An IBM-PC communications standard. An interface for connecting printers and other peripheral devices to a computer. *Also see Parallel Interface*.

Consumables. Items such as toner and/or developer (EP Cartridge) that the printer *consumes*.

Control Code. A type of PCL language command. An ASCII character that initiates a printer function.

Controller. The board that controls the engine. Contains firmware, I/O connectors, RAM, and the main CPU.

CPI. Characters Per Inch.

CPU. Central Processing Unit.

D

Data. Factual information, commonly organized for analysis.

Database. Body of data manipulated by a database program.

Density. The degree of darkness of a printed image.

Desktop. Refers to the working area on the screen where the cursor is active on your computer.

Dialog box. A box that appears on the screen to request information.

DOS. *Disk Operating System.*

DOT. Use *dot*, not *bit* to describe an individual screen pixel.

Dots per inch (dpi). A measure of the resolution of a printed page.

Download. The process of transferring data from a host to a printer's or print server's internal memory or hard drive.

E

EMI. Electro-Magnetic Interface.

Emulations. Printer's ability to imitate another printer by accepting and acting on the same commands as the emulated printer (e.g., LJ III emulation).

Escape Sequence. PCL escape sequences consist of two or more characters. The first character is always the escape character, identified by the ^EC symbol and is a control code the printer uses to identify a string of characters as a printer command. As the printer monitors incoming data from a computer, it *looks* for the character. When it appears, the printer reads it and its associated characters as a command to be performed, and not as data to be printed.

ESD. *Electro-static Discharge*.

Ethernet. A baseband LAN specification invented by Xerox Corporation and developed jointly by Xerox, Intel, and Digital Equipment Corporation. Ethernet networks operate at 10 Mbps using CSMA/CD to run over coaxial cable.

EtherTalk. AppleTalk protocols running on Ethernet.

Exit. To leave or quit a program.



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F

Face down. Printed pages that exit the printer printed side down.Face up. Printed pages that exit the printer printed side up.Factory Defaults. Printer settings applied when the printer is manufactured.

Η

HCF. *High Capacity Feeder.* **HDD.** *Hard Disk Drive.*

Ι

IEEE. Institute of Electrical and Electronic Engineers.

Image Area. Refers to the printable area of a page.

Initialize. To establish the initial default status of the printer by turning on the printer.

I/O Connector. Input/output connector that attaches the computer to the printer is connected here (e.g., parallel, serial, LocalTalk, Ethernet).

IP. Internet Protocol. This is layer 3 (network layer) protocol that contains addressing information and some control information that allows packets to be routed.

ITU-TSS. An international organization that develops communications standards. Formerly, CCITT.

L

LAN. Local Area Network.

LCD. Liquid Crystal Display.

LED. *Light Emitting Diode.* A semiconductor light source that emits visible light or infrared radiation.

М

MAC. Media Access Control.

MBT. *Multi-bypass Tray.* For automatic printing of small jobs or manual feeding of single sheets (including bond, postcard, overheads, labels, and odd-sized print media).

Multimedia. The printer's Multimedia Feeder can be used for various paper sizes, transparencies, and envelopes.

N

NIC. Network Interface Card.

Glossary-3

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OCP. Operator Control Panel.

Operating System. Software that controls the execution of programs.

Orientation. Position of the print on the page. In Portrait orientation, the print runs from the top to bottom margins across the narrow width of a sheet of paper. In Landscape orientation, the print runs from the left to right margins along the length of a sheet of paper.

OSI. *Open Systems Interconnection.* A logical structure for network operations (ISO), to enable multi-vendor equipment interoperability. A seven-layer network protocol standard.

P

Paper Size. Physical dimensions of the paper.

Parallel Interface. An interface that sends data 8 bits at a time. The printer's parallel interface may be configured for bidirectional (two-way) communications between a user system and the printer.

Parity check. The process of checking the integrity of a character.

PCL. Hewlett-Packard Printer Control Language.

PDF. Portable Document Format.

PDL. Page Description Language.

Pixel. In electronic publishing, a basic unit of digital imaging.

Porosity. The ratio of the volume of pores in a material to the volume of the whole, as in a percentage of the volume of pores through which light may pass through paper.

Port. Designates a pathway for the flow of data in or out of a device.

PostScript. A registered trademark of Adobe Systems, Inc.

PPD. PostScript Printer Description file.

Printable area. Area of the physical page in which the printer is able to place a dot.

PROM. Programmable Read-Only Memory.

PWB. Printed Wiring Board.

Q

Queue. A destination for a sequence of stored data or programs awaiting processing, as in files waiting in line to be sent to the printer.

Glossary-4

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R

RAM. *Random Access Memory.* A type of internal memory that stores data temporarily.

ROM. *Read-only Memory.* A type of internal memory that is used to store programs and data vital to the printer's basic operation permanently.

S

ScanCenter. An option provided for walk-up copying. Also referred to as ICS in the Guide.

SCSI. Small Computer System Interface.

Serial interface. An interface that sends data one bit at a time over a single line.

SIMM. Single In-line Memory Module.

SNMP. *Simple Network Management Protocol.* Printer Monitor uses SNMP to retrieve printer status and to intercept traps generated by the printer whenever its status changes. The information is displayed through a graphical interface

Startup. The act or process of setting into operation or motion, as in starting up your system with a *startup* disk.

Symbol set. A predefined set of characters (glyphs) and the numeric codes that the computer sends to the printer to represent the characters.

System. A broad term to include a computer and any peripheral devices, accessories, and software.

T

TCP/IP. *Transmission Control Protocol/Internet Protocol.* The two best known protocols often thought of as one protocol. TCP corresponds to layer 4 (transport layer) of the OSI reference model, and provides reliable data transmission. IP corresponds to layer 3 (network layer) and provides connectionless datagram service. U.S. Department of Defense developed TCP/IP in the 1970s to support the construction of worldwide internetworks.

Telnet. Standard Internet terminal emulation protocol.

Token Ring. A token passing LAN developed and supported by IBM.

Toner. Imaging material used in electrophotography and some off-press proofing systems. The material that is used to create the physical image on the page.

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V

Virtual printer. A logical printer definition within the physical printer. To the network server and workstations, each *virtual printer* appears as a single physical printer.

VMS. Digital Equipment Corporation (DEC) operating system.

VPT. Virtual Printer Technology. The virtual printer feature of a printer that allows it to appear as multiple printers to other network workstations.

W

WAN. Wide Area Network.

Ζ

Zone. A logical group of nodes within a network separated by routers, bridges, or gateways.

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