The Xerox DocuPrint N24/ N32 Finisher User Guide

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Notice

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Table of Contents

Introduction 5

How Much of This Guide Must I Read? 5

Finisher Overview 6

Features 7

Built-in Stapler 7

Capacity Handling 7

Use with Mailbox 7

Face-down Bin 8

Job Offsetting 8

Supported Paper Sizes 8

Output Destination 8

Output Bin Sensing 8

Bin Level Sensors 9

Safety Limitation 9

Unload Button 9

Selecting Output Destination and Staple Mode 9

Bin Capacity 10

Stapling Positions 11
Stapling Positions for Letter, Statement, and Executive Paper . 11
Stapling Positions for A4 Paper 12
Stapling Positions for A5 Paper 13
Stapling Positions A3 Paper 14
Stapling Positions for Ledger, Legal, and Folio Paper 15
Job Offsetting 16
Output Timeout 17
Paper Output Exception Conditions 18
Finisher Menu Options 19
Control Panel Messages 21
Adding Staples 24
Clearing Jams 26
Clearing Area E 26
Clearing Area F 27
Clearing Area G 27
Clearing Area H 28
Space Requirements 29
Precautions 30
Finisher Specifications 31
Finisher Specific Commands 32
Output Destination Commands 32
Stapling Position Commands 32
Special Notices 33
FCC Notice for USA and Canada 33
Certification for Canada 33
European Markets 34

Introduction

This document describes the use of the DocuPrint N24/N32 2,000 Sheet Finisher/Stapler. It supplements information contained in other DocuPrint N24/N32 documentation.

If you are installing a printer at the same time as you are installing a finisher, install the printer and 2,500 Sheet Feeder first, using the instructions which come with them. Then install the finisher.

Note

This document is for use with the DocuPrint N24 and N32 printers. Because most of the printer's features and functionality are shared by both the DocuPrint N24 and DocuPrint N32, this document uses the name DocuPrint N32 when referring to both printers. This document uses the generic name finisher to refer to the DocuPrint N24/N32 Finisher in the remainder of this document.

How Much of This Guide Must I Read?

The finisher and all its options are customer installable. If you have already installed your finisher following the instructions packed with it, this guide provides more information about using the finisher.

Finisher Overview

The major components of the finisher are indicated in Figure 1 below.

Figure 1 Finisher components

Front View

1 Transport Cover
2 Paper Transport
3 Staple Access Door
4 Unload Button
5 Output Bin 1
6 Output Bin 2
7 Output Bin 3

Top View

1 Area E
2 Area F
3 Door G
4 Area H

Features

The finisher option can be installed only on console versions of the DocuPrint N32 (i.e., versions which have the 2,500 Sheet Feeder). It has three output bins with a total maximum capacity of 2,000 unstapled sheets, up to 667 unstapled sheets per bin. There is stapling capability for all three bins. Stapled output is delivered face down.

Built-in Stapler

The stapler can staple sets of up to 50 sheets. It has three stapling modes (Front for portrait, Back for landscape, and Dual for booklet mode). The customer-replaceable stapling unit contains 5,000 staples which are packaged as a supply item, in sets of three, for a total of 15,000 staples per package. The finisher comes with one staple cartridge of 5,000 staples.

Capacity Handling

The finisher is programmed to ensure that there is enough space remaining in the bin to output a job of from two to 50 pages. Up to 50 sheets can be stapled.

Stapled sets are kept in a compiler bin and ejected once a complete set has been stapled. Output is delivered to the finisher bins face down only.

The finisher has an elevator that positions one of the three output bins to receive output from the compiler bin. The finisher home position is when Bin 2 receives output from the compiler bin. Finisher bin selection is made from the System Menu at the User Interface, via PCL commands or from printer drivers.

Use with Mailbox

The finisher is designed to be used with console versions of the DocuPrint N32. Because it uses the same connector and occupies the same location as the Mailbox, the same DocuPrint N32 can not support both a finisher and a Mailbox simultaneously.

Face-down Bin

When the finisher is installed, its transport reduces the capacity of the DocuPrint N32's Face-down Bin from 500 to 300 sheets.

Job Offsetting

The finisher supports offsetting of printed jobs in all three bins. Job offsetting is configured either via the User Interface (UI) or through SNMP commands. Job offsetting is a system function; it cannot be configured from the printer drivers.

Supported Paper Sizes

All sizes of paper can be sent to the finisher except A6 and Envelopes. Mixed sizes of paper can be sent to the finisher bins as long as all the paper within a single job is the same size. Mixed paper sizes **within the same job** cannot be compiled and stapled. See Table 1 on page 10 for supported paper sizes.

Output Destination

With a finisher installed, the user may select the following output destinations: Face Down Bin, Face Up Bin, Finisher Bin 1, Finisher Bin 2, and Finisher Bin 3

Output Bin Sensing

Each finisher bin senses not only the height of each stack, but also the number of stapled sets delivered to each stack. When the number of stapled sets delivered to the bin reaches 100 for long edge feed (LEF) paper sizes, or 50 for short edge feed (SEF) paper sizes, as shown in Table 1 on page 10, the bin is reported as full.

Bin Level Sensors

Finisher sensors can detect the following bin conditions:

- Empty
- 50%
- Full

When a bin is full and the stack height does not allow additional sets to be sent to it, the destination of additional sets directed to the full bin is determined by the Output Timeout system parameter in the printer's System Menu. See Table 2 on page 17.

Safety Limitation

When Finisher Bin 3 is selected, the bins are raised to the highest position. In the interest of safety, they will only remain in this position for (1) one minute following the last page delivered to bin 3. After one minute, the bins are lowered to align bin 2 with the output paper path.

Unload Button

The Unload Button temporarily interrupts printing and places the finisher in the home position to allow the operator to remove output. It also signals the controller to sense stack height in the bins and resume printing after the stack has been removed. Figure 1 on page 6 illustrates the position of the unload button.

Selecting Output Destination and Staple Mode

These parameters can be set via the System Menu at the UI [see *"Finisher Menu Options"* (page 19)] or by PCL and PJL commands [see *"Finisher Specific Commands"* (page 32)].

Bin Capacity

Each finisher Bin is capable of stacking up to 667 sheets of 20 lb. paper for long edge feed (LEF) paper sizes and 334 sheets for short edge feed (SEF) paper sizes.

The maximum stack height is decreased when stapled sets are delivered to each bin, since stapled sets affect the stability of the output stack.

Table 1 lists the supported paper sizes and the maximum capacity for each bin based upon whether the output is unstapled or stapled.

Table 1 Maximum Capacity Per Bin

Paper Size	Capacity Unstapled Sheets	Capacity Stapled Sets
Letter (8.5” x 11”) LEF	667	100
Statement (5.5” x 8.5”) LEF	667	100
Executive (7.25” x 10.5”) LEF	667	100
A4 (210mm x 297mm) LEF	667	100
A5 (148mm x 210mm) LEF	667	100
Legal (8.5” x 14”) SEF	334	50
Folio (8.5” x 13”) SEF	334	50
Ledger (11” X 17”) SEF	334	50
A3 (287mm X 420mm) SEF	334	50

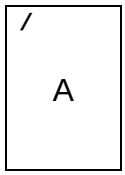
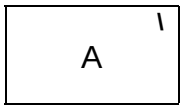
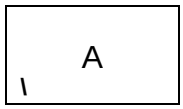
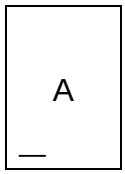
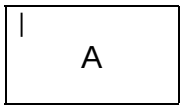
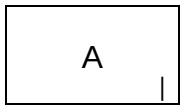
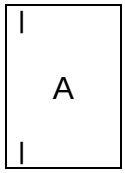
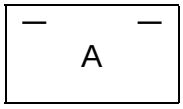
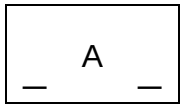
Stapling Positions

Stapling positions can be sent from the System Menu at the User Interface (See Table 7 on page 19.) or by PJL commands. See *"Finisher Specific Commands"* (page 32).

Stapling Positions for Letter, Statement, and Executive Paper

Figure 2 illustrates the approximate position of staples for Letter, Statement, and Executive paper in Portrait, Landscape, and Inverse Landscape Modes based upon the UI parameters indicated in the left hand column.

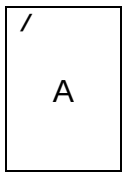
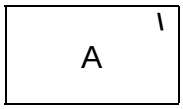
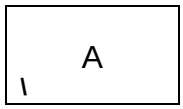
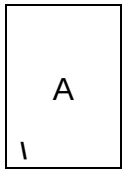
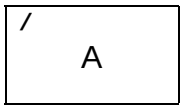
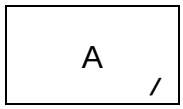
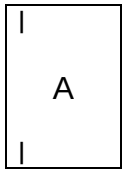
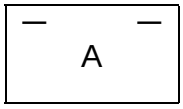
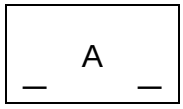
Figure 2 Stapling positions for Letter, Statement, and Executive paper

Stapling Position	Portrait	Landscape	Inverse Landscape
Position 1			
Position 2			
Dual			

Stapling Positions for A4 Paper

Figure 3 illustrates the approximate position of staples for A4 paper in Portrait, Landscape, and Inverse Landscape Modes based upon the UI parameters indicated in the left hand column.

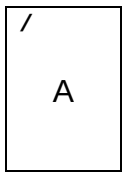
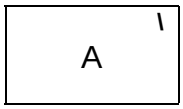
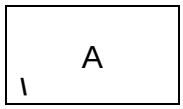
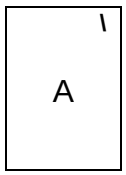
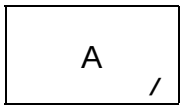
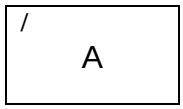
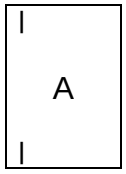
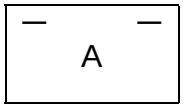
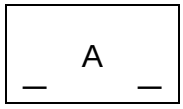
Figure 3 Stapling positions for A4 paper

Stapling Position	Portrait	Landscape	Inverse Landscape
Position 1			
Position 2			
Dual			

Stapling Positions for A5 Paper

Figure 4 illustrates the approximate position of staples for A5 paper in Portrait, Landscape, and Inverse Landscape Modes based upon the UI parameters indicated in the left hand column.

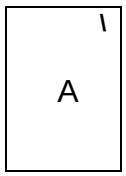
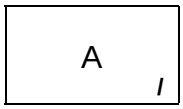
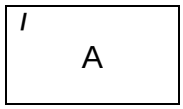
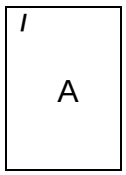
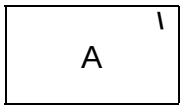
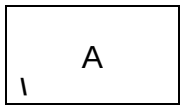
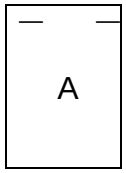
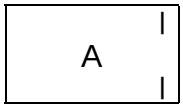
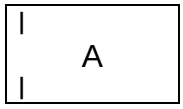
Figure 4 Stapling positions for A5 paper

Stapling Position	Portrait	Landscape	Inverse Landscape
Position 1			
Position 2			
Dual			

Stapling Positions A3 Paper

Figure 5 illustrates the approximate position of staples for A3 paper in Portrait, Landscape, and Inverse Landscape Modes based upon the UI parameters indicated in the left hand column.

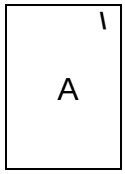
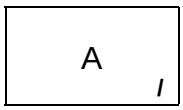
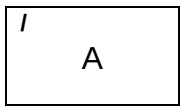
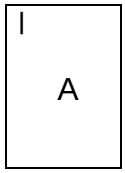
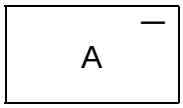
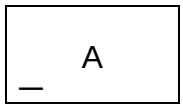
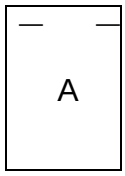
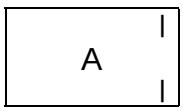
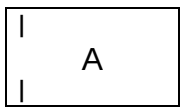
Figure 5 Stapling positions for A3 paper

Stapling Position	Portrait	Landscape	Inverse Landscape
Position 1			
Position 2			
Dual			

Stapling Positions for Ledger, Legal, and Folio Paper

Figure 6 illustrates the approximate position of staples for Ledger, Legal, and Folio paper in Portrait, Landscape, and Inverse Landscape Modes based upon the UI parameters indicated in the left hand column.

Figure 6 Stapling positions for Ledger, Legal, and Folio paper

Stapling Position	Portrait	Landscape	Inverse Landscape
Position 1			
Position 2			
Dual			

Job Offsetting

The finisher, like the Face-Down Bin, supports offsetting output between successive jobs or multiple collated sets of a single job. A system parameter configures the offset function to OFF (no offset), or ON (toggle offset portion of sequential jobs or multiple collated sets of a single job.)

Job offset is a system function that cannot be configured by the driver. It is configured via the User Interface or via SNMP commands.

Output Timeout

Table 2 defines printer operation, based upon the Output Timeout setting, when the requested finisher bin is full. The Output Timeout setting can be selected from the System Menu. If the Output Timeout setting allows printed output to be redirected to an alternative bin, that bin is used until the original output bin again becomes available. This occurs when the original requested finisher bin is emptied. Printing is redirected to the original bin at the next job boundary. If the current job was re-directed to an alternative bin, the re-direction remains in effect until the last page of the job becomes available.

Table 2 Output timeout operation

Destination Requested	Output Timeout Value	Action
Finisher Bin 1, 2, or 3	OFF	Display shows "Bin Full". Printer waits until the Bin is emptied.
Finisher Bin 1	0	Immediately changes destination to Bin 2. If Bin 2 is full, output is directed to Bin 3.
Finisher Bin 1	5, 10, 30, or 60 seconds	Display shows "Bin Full" until the Timeout expires. After the Timeout expires, subsequent pages are directed to Bin 2. If Bin 2 is full, output is directed to Bin 3.
Finisher Bin 2	0	Immediately changes destination to Bin 3. If Bin 3 is full, output is directed to Bin 1.
Finisher Bin 2	5, 10, 30, or 60 seconds	Display shows "Bin Full" until the Timeout expires. After the Timeout expires, subsequent pages are directed to Bin 3. If Bin 3 is full, output is directed to Bin 1.
Finisher Bin 3	0	Immediately changes destination to Bin 1. If Bin 1 is full, output is directed to Bin 2.
Finisher Bin 3	5, 10, 30, or 60 seconds	Display shows "Bin Full" until the Timeout expires. After the Timeout expires, subsequent pages are directed to Bin 1. If Bin1 is full, output is directed to Bin 2.

Paper Output Exception Conditions

It is possible to send a combination of commands to select an output destination or feature that cannot be processed by the printer. Table 3 describes printer operations when these exceptions occur.

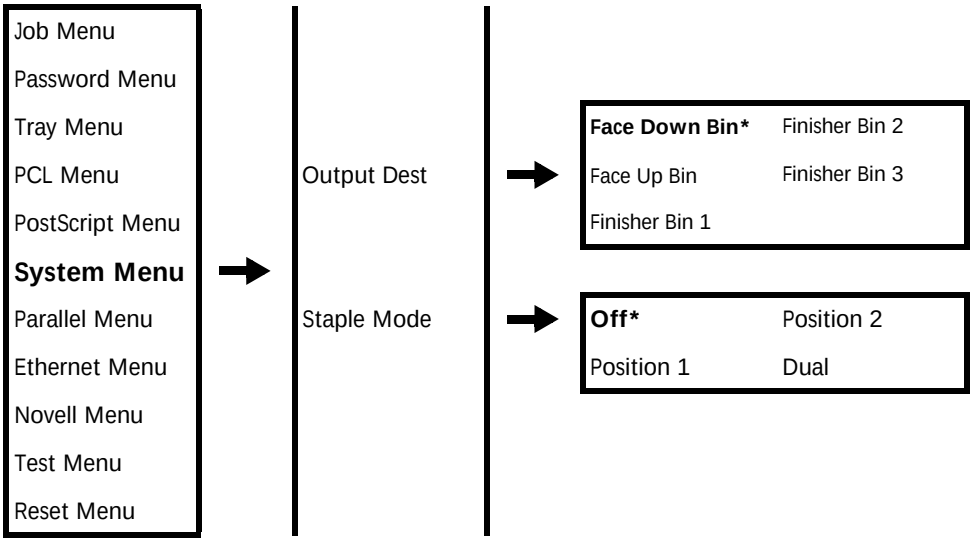
Table 3 Paper output exception conditions

Condition	Printer Operation
Stapling is selected without the finisher destination	Destination is ignored. Stapling is ignored.
Stapling is selected and the job exceeds 50 pages	Stapling is ignored. Output is sent to the destination bin.
Stapling is selected for a single page job	Stapling is ignored. Output is sent to the destination bin.
Stapling is selected but the staple cartridge is empty or not installed	An "Out of Staples" message appears and printing continues.
Finisher bin is full	Diverts output to alternative finisher bin after timeout specified in Output Timeout option on the User Interface System Menu.
The destination is changed either to or from one of the finisher Bins that was not the destination for the first page in the job.	Ignores the changes in the destination and continues to deliver pages to the destination in effect for the first page of the job.
One of the finisher Bins is selected as the destination and the duplex mode is changed within the job.	All pages currently in the compiler bin are ejected into the finisher bin unstapled. The remainder of the document is directed to the compiler bin with the new duplex mode, until the end of the job is reached, or until another change in duplex mode occurs.

Finisher Menu Options

When the finisher is installed, it is reflected in the System Menu in two options: Output Destination and Staple Mode. Those options are illustrated in Figure 7. Finisher tasks performed with the System Menu are listed in Table 4 on page 20.

Figure 7 System Menu showing finisher-specific options only



***Factory defaults**

Table 4 System Menu finisher-specific functions

Menu Item and Function	Keystrokes	Display
Output Destination Set the default output bin. The available values are: **Face Down Bin*** Face Up Bin Finisher Bin 1 Finisher Bin 2 Finisher Bin 3	1. Press **Menu Up** [^ 1] or **Menu Down** [v 5] until you see:	Menus System Menu
	2. Press **Item Up** [^ 2] or **Item Down** [v 6] until you see:	System Menu Output Dest
	3. Press **Value Up** [+ 3] or **Value Down** [- 7] until you see:	Output Dest = *New Value*
	4. Press **Enter** [↵ 4]. You will see:	System Menu Output Dest
	5. Press **On Line** [← 0]. You will see:	Ready
Staple Mode Set the default Staple Mode. The available values are: **Off*** Position 1 Position 2 Dual	1. Press **Menu Up** [^ 1] or **Menu Down** [v 5] until you see:	Menus System Menu
	2. Press **Item Up** [^ 2] or **Item Down** [v 6] until you see:	System Menu Staple Mode
	3. Press **Value Up** [+ 3] or **Value Down** [- 7] until you see:	Staple Mode = *New Value*
	4. Press **Enter** [↵ 4]. You will see:	System Menu Staple Mode
	5. Press **On Line** [← 0]. You will see:	Ready

Control Panel Messages

The table below lists Control Panel messages, along with their corrective actions, that are specific to the finisher. These messages supplement those already described in the other DocuPrint N32 documentation.

Table 5 Control Panel messages and corrective actions

Message	Description/Corrective Action
`Check Staple Cartridge`	The Stapler cartridge is not in position. ACTION: Verify that the Stapler cartridge has been installed. and that it contains staples.
`Clear Area H`	The finisher compiler tray (Area H) safety switch is on. ACTION: Remove the obstacle from Area H.
`Close Cover H`	Finisher cover H is not closed entirely, or the Compiler cover safety switch is open or the cover switch is open. ACTION: Remove the obstacle from this area and close the door.
`Close Door E`	Door E is open. ACTION: Close Door E, the Gate Cover of the finisher.
`Close Door F`	Door F is open. ACTION: Close Door F, the Transport Cover of the finisher.
`Close Door G`	Door G is open. ACTION: Close Door G, the Top Cover of the finisher.
`Close Staple Door`	The finisher's staple door is open. ACTION: Close the stapler door.
`Finisher Failure Power Off/On`	Problem with finisher elevator, stackers, or compiler tray ACTION: Power off the printer. Then power it back on again.
`Fin Fail H5-81 Power Off/On`	Problem with finisher eject clamp. ACTION: Power off the printer. Then power it back on again.
`Fin Fail H5-82 Power Off/On`	Finisher tamper home sensor problem. ACTION: Power off the printer. Then power it back on again.

Table 5 Control Panel messages and corrective actions *(continued)*

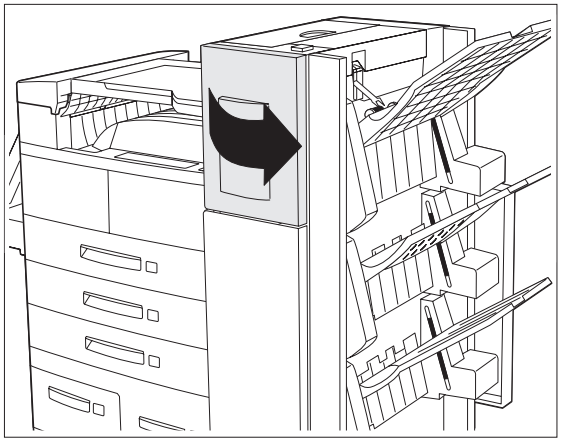
Message	Description/Corrective Action
`Fin Fail H5-83` `Power Off/On`	Finisher stacker offset home sensor problem. ACTION: Power off the printer. Then power it back on again.
`Fin Fail H5-84` `Power Off/On`	Finisher tray sensor problem. ACTION: Power off the printer. Then power it back on again.
`Fin Fail H5-85` `Power Off/On`	Finisher stacker upper limit switch problem. ACTION: Power off the printer. Then power it back on again.
`Fin Fail H5-86` `Power Off/On`	Finisher stacker lower limit switch problem. ACTION: Power off the printer. Then power it back on again.
`Install` `Staple Cartridge`	The finisher is out of staples. ACTION: Remove the empty Staple Cartridge and install a new one. Refer to the section *"Adding Staples"* (page 24).
`Paper Jam` `Clear Area E`	A paper jam has occurred in Area E. ACTION: Open Door E and remove jammed paper. Refer to the section *"Clearing Area E"* (page 26).
`Paper Jam` `Clear Area F`	A paper jam has occurred in Area F. ACTION: Open Door F and remove jammed paper. Refer to the section *"Clearing Area F"* (page 27).
`Paper Jam` `Clear Area G`	A paper jam has occurred in Area G. ACTION: Open Door G and remove jammed paper. Refer to the section *"Clearing Area G"* (page 27).
`Paper Jam` `Clear Area H`	A paper jam has occurred in Area H. ACTION: Open Door H and remove jammed paper. Refer to the section *"Clearing Area H"* (page 28).
`Paper Jam` `Clear Area G,H`	A paper jam has occurred in Areas G and H. ACTION: Open Doors G and H and remove jammed paper. Refer to the sections *"Clearing Area G"* (page 27) *and "Clearing Area H"* (page 28).
`Remove Output` `Finisher Bin 1`	Finisher Bin 1 is full. ACTION: Remove the output from Bin 1.

Table 5 Control Panel messages and corrective actions *(continued)*

Message	Description/Corrective Action
`Remove Output Finisher Bin 2`	Finisher Bin 2 is full. ACTION: Remove the output from Bin 2
`Remove Output Finisher Bin 3`	Finisher Bin 3 is full. ACTION: Remove the output from Bin 3
`Remove Output From Finisher`	All three finisher bins are full. ACTION: Remove the output from all three bins.
`Slide In Finisher`	The finisher guide rail is not entirely in position. ACTION: Slide the guide rail into position. Make sure it is securely snapped into the console. Check to see that the thumb screw that connects it to the finisher is hand tightened.
`Stapl Fail`	Staple Failure ACTION: Power off the printer. Then power it back on again.
`Stapl Fail H5-91 Power Off/On`	The Staple Head did not return to its initial position. ACTION: Power off the printer. Then power it back on again.
`Stapl Fail H5-92 Power Off/On`	The Staple Head did not switch ON within the specified time. ACTION: Power off the printer. Then power it back on again.
`Stapl Fail H5-93 Power Off/On`	The Stapler Failed in the Front Corner position ACTION: Power off the printer. Then power it back on again.
`Stapl Fail H5-94 Power Off/On`	The Stapler Failed in the Front Straight position ACTION: Power off the printer. Then power it back on again.
`Stapl Fail H5-95 Power Off/On`	The Stapler Failed in the Rear Straight position ACTION: Power off the printer. Then power it back on again.
`Stapl Fail H5-96 Power Off/On`	The Stapler Ready Sensor did not go back ON after the staples were refilled, or stapling was unsuccessful. ACTION: Power off the printer. Then power it back on again.
`Stapl Fail H5-97 Power Off/On`	The End Wall Sensor of the finisher did not go on ON or OFF within the specified time. ACTION: Power off the printer. Then power it back on again.

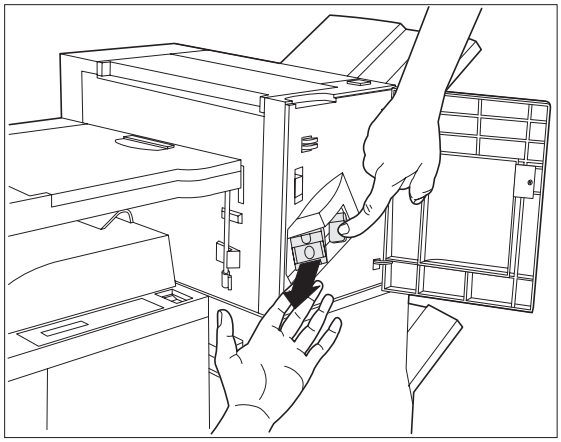
Adding Staples

The printer will pause during a stapling job when the staple cartridge is empty. Follow these steps to place a new staple cartridge into the finisher.

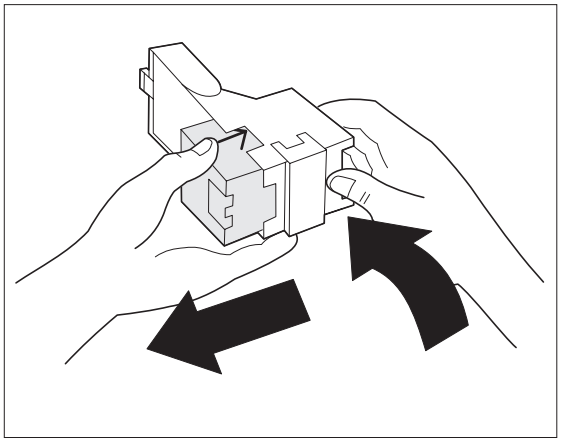


1 **Open the access door on the side of the finisher.**

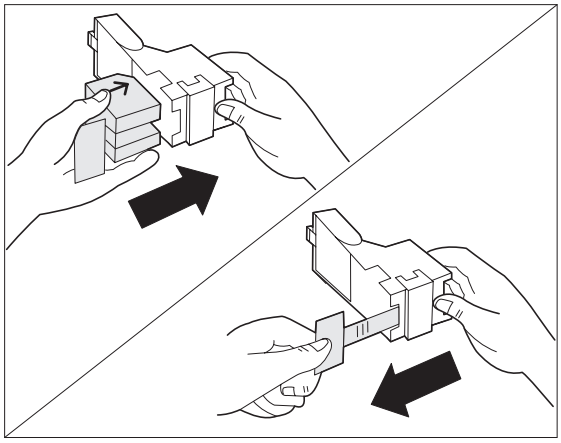
Staple replacement and jam clearance instructions are also displayed on the panel behind the access door.



2 **Place one hand under the cartridge. Use your other hand to release the cartridge from the finisher by pushing down on the latch as shown.**

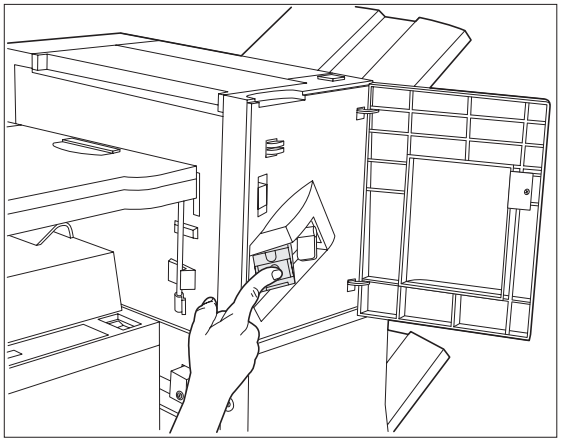


3 **Remove the empty cardboard from the cartridge by pressing the clear plastic tab on the top rear of the cartridge as the hand on the right is doing in the figure.**

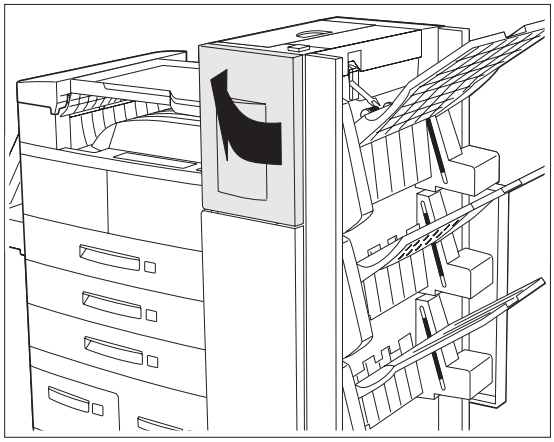


4 **Slide a new set of staples into the cartridge and pull the tab to release the packaging.**

Make sure the arrows on the package of staples face up.



5 **Slide the full Staple Cartridge into the finisher until it snaps into place.**



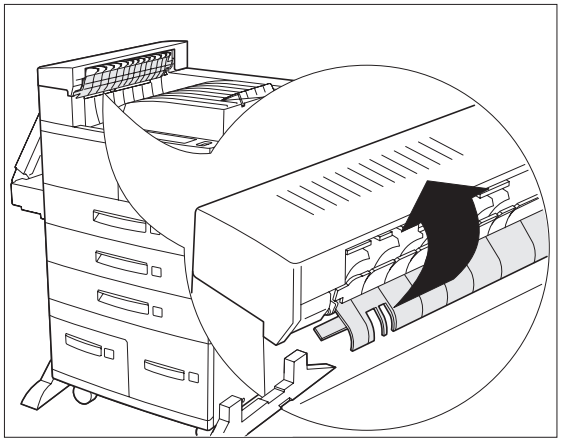
6 **Close the access door. Stapling can now continue.**

Clearing Jams

Follow the procedures below to clear finisher paper jams.

Clearing Area E

Follow the procedure below when the Control Panel display reads: `Paper Jam Clear Area E`.



1 **Lift the plastic roll cover under the paper transport, using the tab as indicated. Remove any paper under the roll cover. Release the roll cover when you have removed the paper**

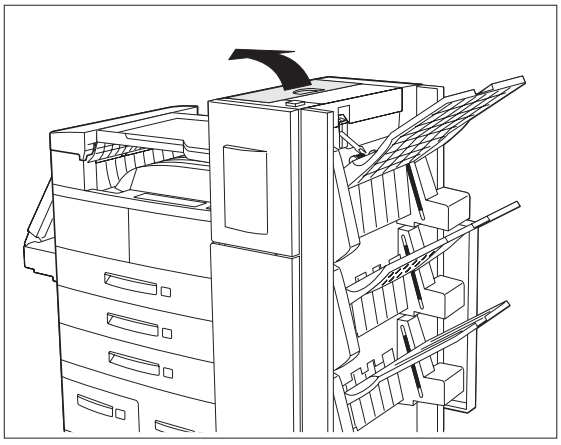
Clearing Area F

Follow the procedure below when the Control Panel display reads: `Paper Jam Clear Area F`.

1. **Raise the cover of the Bypass Transport and remove any jammed paper.**
2. **Lower the cover of the transport when you are finished.**

Clearing Area G

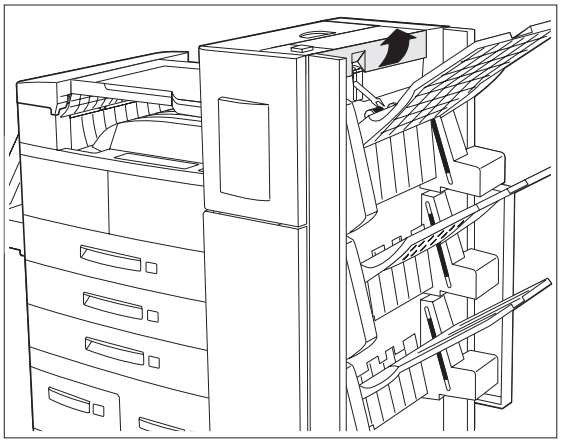
Follow the procedure below when the Control Panel display reads: `Paper Jam Clear Area G`.



1. **Raise the cover of the Door G and remove any jammed paper.**
2. **Close Door G when you are finished.**

Clearing Area H

Follow the procedure below when the Control Panel display reads: `Paper Jam Clear Area H`.



1. **Raise the assembly at Area H and remove any jammed paper.**
2. **Close Door H when you are finished.**

Space Requirements

For easy operation, maintenance and replacement of consumables, you should select a location for the printer that leaves the minimum clearances around the finisher as shown in Figure 8 and Figure 9.

Figure 8 Space requirements for installing the finisher with base configuration

Top View

1 60 inches (1525 mm)
2 32 inches (815 mm)
3 4 inches (100 mm)
4 15 inches (425 mm)
5 36 inches (915 mm)
6 102 inches (2550 mm)

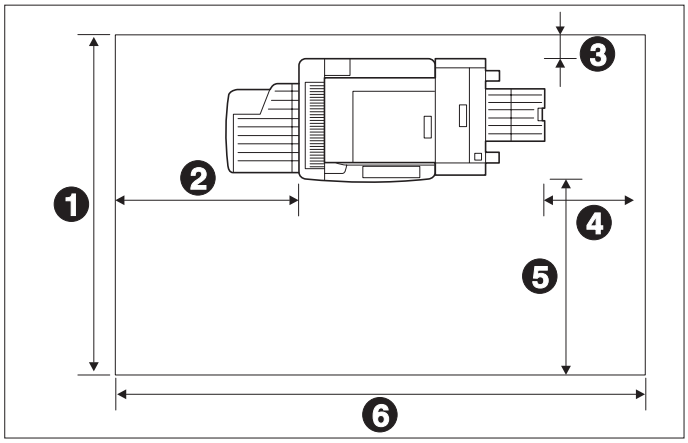
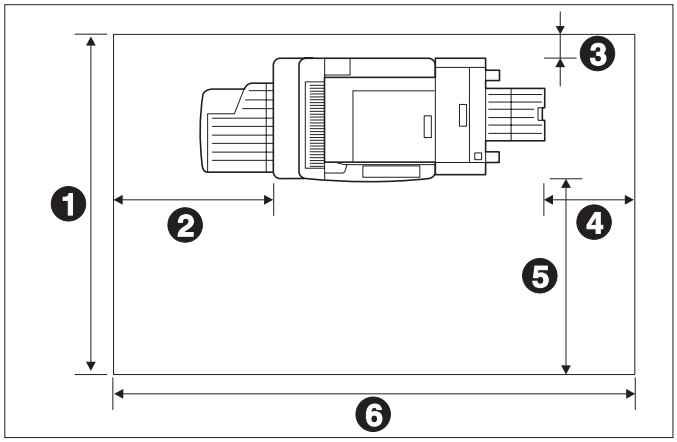


Figure 9 Space requirements for installing the finisher when options are installed

Top View

1 60 inches (1525 mm)
2 32 inches (815 mm)
3 4 inches (100 mm)
4 15 inches (425 mm)
5 36 inches (915 mm)
6 102 inches (2550 mm)



Precautions

Please leave a minimum of 36 inches (900 mm) above the printer when the finisher is installed.

Finisher Specifications

Table 6 Finisher Specifications

Power Consumption	120 V – 55 DC W 220 V – 55 DC W
Noise Level	71.8 dBA maximum with 32 PPM engine per ISO 7779
Temperature	5 - 35 degrees C during operation
Relative Humidity	15% to 85% during operation
Dimensions	1,133 x 633 x 658 mm (HxWxD)
Weight	56 kg (124 lbs.) without paper
Productivity	Up to 32 PPM (Simplex) in continuous running mode with N32 Printer Up to 24 PPM (Simplex) in continuous running mode with N24 Printer

Finisher Specific Commands

Xerox has added some PCL and PJL commands to select output destination and stapling at the finisher.

Output Destination Commands

Table 7 lists the PCL and PJL commands to select output destination. The values listed in the PJL column are the settings associated with the PJL "OUTBIN" variable.

Table 7 Finisher-specific output selection commands

Destination	PCL	PJL Value for variable "OUTBIN"
Finisher Bin 1	E_C&14G	OPTIONALOUTPUTBIN2
Finisher Bin 2	E_C&15G	OPTIONALOUTPUTBIN3
Finisher Bin 3	E_C&16G	OPTIONALOUTPUTBIN4

Stapling Position Commands

The finisher supports the following stapling modes:

- No Stapling
- Front
- Rear
- Dual.

Stapling is selected by a PJL command preceding the job. They are listed in Table 8.

Table 8 PJL commands to select stapling position

Position	PJL Command
No Stapling	@PJL SET FINISH = NONE
Front (UI Position 2)	@PJL SET FINISH = STAPLEFRONT
Rear (UI Position 1)	@PJL SET FINISH = STAPLEREAR
Dual	@PJL SET FINISH = STAPLEDUAL

Special Notices

FCC Notice for USA and Canada

Base Printer with Finisher

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

Certification for Canada

60 HZ, 115V

The equipment is listed by the Underwriters Laboratories, UL 1950, certified by Canadian Standards Association, CSA22.2, No. 950.

European Markets

CE Certification

The CE marking applied to this product symbolizes Xerox Limited Declaration of Conformity with the following applicable directives of the European Union as of the dates indicated:

January 1, 1995: - Council Directive 73/23/EEC amended by Council Directive 93/86/EEC, approximation of the laws of the member states related to low voltage equipment.

January 1, 1996: - Council Directive 89/336/EEC, approximation of the laws of the member states related to electromagnetic compatibility.

A full declaration, defining the relevant Directives and referenced standards, can be obtained from your Xerox Limited representative.

Changes or modifications to this equipment not specifically approved by Xerox Limited may result in non-compliance with one or more of the directives above.

Shielded cables must be used with this equipment to maintain compliance with the EMC directive (89/336/EEC).

Finisher

WARNING: The Base Printer with a Finisher is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.