

# **DOCUMENT CENTRE COLORSERIES 50**

## **USER GUIDE**



**DIGITAL**  
THE DOCUMENT COMPANY  
**XEROX**

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# Safety Notes

The Xerox Document Centre ColorSeries 50 copier/printer and the recommended maintenance supplies have been designed and tested to meet strict safety requirements. Attention to the following notes will ensure the continued safe operation of your copier/printer.

## *Electrical safety*

- Use only the power cord supplied with this equipment.
- Plug the power cord directly into a correctly grounded electrical outlet. Do *not* use an extension cord. If you do not know whether or not an outlet is grounded, consult a qualified electrician
- Do not use a ground adapter plug to connect this equipment to an electrical outlet that lacks a ground connection terminal.



**WARNING:** You may get a severe electrical shock if the outlet is not correctly grounded.

- Do not place the copier/printer where people may step on or trip on the power cord. Do not place objects on the power cord.
- Do not override or disable electrical or mechanical interlocks.
- Do not obstruct the ventilation openings. These openings are provided to prevent overheating of the machine.



**WARNING:** Never push objects of any kind into slots or openings on this equipment. Making a contact with a voltage point or shorting out a part could result in fire or electrical shock.

- If any of the following conditions occur, switch off the power to the machine immediately and disconnect the power cord from the electrical outlet. Call an authorized Xerox service representative to correct the problem.
  - The machine emits unusual noises or odors.
  - The power cord is damaged or frayed.
  - A wall panel circuit breaker, fuse, or other safety device has been tripped.
  - Liquid is spilled into the copier/printer.
  - The machine is exposed to water.
  - Any part of the machine is damaged.

### Disconnect Device

The power cable is the disconnect device for this equipment. It is attached to the back of the machine as a plug-in device. To remove all electrical power from the machine, disconnect the power cable from the electrical outlet.



## *Laser safety*



**CAUTION:** Use of controls, adjustments, or procedures other than those specified in this documentation may result in a hazardous exposure to laser radiation.

This equipment complies with international safety standards. With specific regard to laser safety, the equipment complies with performance standards for laser products set by government, national, and international agencies as a Class 1 laser product. It does not emit hazardous light, as the beam is totally enclosed during all phases of customer operation and maintenance.

## *Maintenance safety*

- Do not attempt any maintenance procedure that is not specifically described in the documentation that is supplied with your copier/printer.
- Do not use aerosol cleaners. The use of supplies that are not approved may cause poor performance of the copier/printer, and could create a dangerous condition.
- Use the supplies and cleaning materials only as directed in the *System Administration Guide*, chapter 4, "Maintenance." Keep all of these materials out of the reach of children.
- Do not remove the covers or guards that are fastened with screws. There are no parts behind these covers that you can maintain or service.

Do not perform any maintenance procedures unless you have been trained to do them by a Xerox representative or unless a procedure is specifically described in one of the copier/printer manuals.

## Operational safety

Your Xerox equipment and supplies were designed and tested to meet strict safety requirements. These include safety agency examination, approval, and compliance with established environmental standards.

Your attention to the following safety guidelines will help ensure the continued safe operation of your copier/printer:

- Use the materials and supplies specifically designed for your copier/printer. The use of unsuitable materials may result in poor performance of the machine and possibly a hazardous situation.
- Follow all warnings and instructions that are marked on or supplied with the machine.
- Place the machine in a room that provides adequate space for ventilation and servicing.
- Place the machine on a level, solid surface (not on a thick pile carpet) that has adequate strength to support the weight of the machine.
- Do not attempt to move the machine. A leveling device that was lowered when your machine was installed may damage the carpet or floor.
- Do not locate the machine near a heat source.
- Do not locate the machine in direct sunlight.

- Do not locate the machine in line with the cold air flow from an air conditioning system.
- Do not place containers of coffee or other liquid on the machine.
- Do not block or cover the slots and openings on the machine. Without adequate ventilation, the machine may overheat.
- Do not attempt to override any electrical or mechanical interlock devices.



**WARNING:** Be careful when working in areas identified with this warning symbol. These areas may be very hot and could cause personal injury.

If you need any additional safety information concerning the machine or materials, contact your Xerox representative.

## *Ozone safety*

This product produces ozone during normal operation. The ozone is heavier than air, and the quantity is dependent on copy volume. Providing the correct environmental parameters, as specified in the Xerox installation procedures, ensures that concentration levels meet safe limits.

If you need additional information about ozone, request the Xerox publication, *OZONE*, 600P83222, by calling 1-800-828-6571 in the USA. For a French language version, call 1-800-828-6571 in the USA, then press 2.

# Notices

## *Radio Frequency Emissions*

### *FCC*

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this equipment not specifically approved by the Xerox Corporation may void the authority granted by the FCC to operate this equipment.

Shielded cables must be used with this equipment to maintain compliance with FCC regulations.

### ***In Canada***

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as defined in the Radio interference regulations of Industry Canada.

### ***FCC***

The following applies to the product when equipped with the Token Ring or Banyan Vines connectivity options:

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 and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

Changes or modifications to this equipment not specifically approved by the Xerox Corporation may void the user's authority to operate this equipment.

Shielded cables must be used with this equipment to maintain compliance with FCC regulations.

### ***In Canada***

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as defined in the Radio interference regulations of Industry Canada.

## ***Safety Extra Low Voltage Approval***

The Xerox Document Centre ColorSeries 50 copier/printer is in compliance with various governmental agencies and national safety regulations. All system ports meet the Safety Extra Low Voltage (SELV) circuits for connection to customer-owned devices and networks. Additions of customer-owned or third-party accessories that are attached to the copier/printer must meet or exceed the requirements listed above. All modules that require external connection must be installed per the Document Centre ColorSeries 50 installation procedure.

## Certifications . . . in Europe



The CE marking that is applied to this product symbolizes Xerox Europe's 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 93/68/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.

Changes or modifications to this equipment not specifically approved by Xerox Europe may void the user's authority to operate the equipment.

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

This equipment is not primarily intended for use in a domestic environment.

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



**WARNING:** In order to allow this equipment to operate in proximity to Industrial, Scientific and Medical (ISM) equipment, the external radiation from ISM equipment may have to be limited or special mitigation measures taken.



The following applies to the product when equipped with Token Ring or Banyan Vines connectivity options:



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

Changes or modifications to this equipment not specifically approved by Xerox Europe may void the user's authority to operate the equipment.

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



**WARNING:** In order to allow this equipment to operate in proximity to Industrial, Scientific and Medical (ISM) equipment, the external radiation from ISM equipment may have to be limited or special mitigation measures taken.

## *It's Illegal . . . in the USA*

Congress, by statute, has forbidden the copying of the following subjects under certain circumstances. Penalties of fine or imprisonment may be imposed on those guilty of making such copies.

1. Obligations or Securities of the United States Government, such as:

Certificates of Indebtedness    National Bank Currency

Coupons from Bonds    Federal Reserve Bank Notes

Silver Certificates    Gold Certificates

United States Bonds    Treasury Notes

Federal Reserve Notes    Fractional Notes

Certificates of Deposit    Paper Money

Bonds and Obligations of certain agencies of the government, such as FHA, etc.

Bonds. (U.S. Savings Bonds may be photographed only for publicity purposes in connection with the campaign for the sale of such bonds.)

Internal Revenue Stamps. (If necessary to copy a legal document on which there is a canceled revenue stamp, this may be done, provided the reproduction of the document is performed for legal purposes.)

Postage Stamps, canceled or uncanceled. (For philatelic purposes, Postage Stamps may be photographed, provided the reproduction is in black and white and is less than 75% or more than 150% of the linear dimensions of the original.)

Postal Money Orders.

Bills, Checks, or Drafts of money drawn by or upon authorized officers of the United States.

Stamps and other representatives of value, of whatever denomination, which have been or may be issued under any Act of Congress.

2. Adjusted Compensation Certificates for Veterans of the World Wars.
3. Obligations or Securities of any Foreign Government, Bank, or Corporation.
4. Copyrighted material, unless permission of the copyright owner has been obtained or the copying falls within the "fair use" or library reproduction rights provisions of the copyright law. Further information of these provisions may be obtained from the Copyright Office, Library of Congress, Washington, D.C. 20559. Ask for Circular R21.
5. Certificates of Citizenship or Naturalization. (Foreign Naturalization Certificates may be photographed.)
6. Passports. (Foreign Passports may be photographed.)
7. Immigration Papers.
8. Draft Registration Cards.
9. Selective Service Induction Papers that bear any of the following Registrant's information:  
Earnings or Income      Dependency Status  
Court Record      Previous military service  
Physical or mental condition  
Exception: U.S. Army and Navy discharge certificates may be photographed.
10. Badges, Identification Cards, Passes, or Insignia carried by Military or Naval personnel, or by members of the various Federal Departments, such as FBI, Treasury, etc. (unless photograph is ordered by the head of such department or bureau.)

Copying the following is also prohibited in certain states:

Automobile Licenses - Drivers' Licenses -  
Automobile Certificates of Title.

The above list is not all inclusive, and no liability is assumed for its completeness or accuracy. In case of doubt, consult your attorney.

## *It's Illegal . . . in Canada*

Parliament, by statute, has forbidden the copying of the following subjects under certain circumstances. Penalties of fines or imprisonment may be imposed on those guilty of making such copies.

1. Current bank notes or current paper money.
2. Obligations or securities of a government or bank.
3. Exchequer bill paper or revenue paper.
4. The public seal of Canada or of a province, or the seal of a public body or authority in Canada, or of a court of law.
5. Proclamations, orders, regulations or appointments, or notices thereof (with intent to falsely cause same to purport to have been printed by the Queen's Printer for Canada, or the equivalent printer for a province).
6. Marks, brands, seals, wrappers or designs used by or on behalf of the Government of Canada or of a province, the government of a state other than Canada or a department, board, Commission or agency established by the Government of Canada or of a province or of a government of a state other than Canada.
7. Impressed or adhesive stamps used for the purpose of revenue by the Government of Canada or of a province or by the government of a state other than Canada.
8. Documents, registers or records kept by public officials charged with the duty of making or issuing certified copies thereof, where the copy falsely purports to be a certified copy thereof.
9. Copyrighted material or trademarks of any manner or kind without the consent of the copyright or trademark owner.
10. The above list is provided for your convenience and assistance, but it is not all inclusive, and no liability is assumed for its completeness or accuracy. In case of doubt, consult your solicitor.

## *Environmental Notices . . . in the USA*



As an ENERGY STAR® partner, Xerox Corporation has determined that this copier/printer model meets the ENERGY STAR® guidelines for energy efficiency.

ENERGY STAR® is a US registered trademark.

The ENERGY STAR program is a team effort between the Environment Protection Agency and the office equipment industry to promote energy-efficient personal computers, monitors, printers, fax machines and copiers. Reducing the energy consumption of this equipment will help combat smog, acid rain and long-term changes to the climate by decreasing the emissions that result from generating electricity.

## *Environmental Notices . . . in Canada*



As a participant in the Environmental Choice program, Xerox Corporation has determined that this copier/printer model meets the Environmental Choice guidelines for energy efficiency.

Environment Canada established the Environmental Choice program in 1988 to help consumers identify environmentally responsible products and services. Copier, printer and fax products must meet energy efficiency and emissions criteria, and exhibit compatibility with recycled supplies. Currently, Environmental Choice has more than 1600 approved products and 140 licensees. Xerox has been a leader in offering EcoLogo approved products. In 1996, Xerox became the first company licensed to use the Environmental Choice EcoLogo for its copiers, printers, and fax machines.

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# 1 About this manual

The Document Centre ColorSeries 50, illustrated in Figure 1, may be used as a standalone copier or a copier/printer.

The purpose of this manual is to introduce you to the various *copying* procedures and features available with the Document Centre ColorSeries 50. For information about how the unit functions as a printer, refer to the ***Document Centre ColorSeries 50 Printer User Guide***.

This manual refers to the unit as either the “Document Centre ColorSeries 50,” the “Document Centre ColorSeries 50 copier/printer,” or simply the “copier/printer.”

This chapter introduces the organization, contents, and conventions of this manual.



**Figure 1: The Document Centre ColorSeries 50**

# *Manual contents*

This manual is divided into 15 chapters, as described below.



**KEY POINT:** Features and options discussed in each chapter reflect the factory default settings. You may see different settings, depending on the options your System Administrator has selected in Tools mode.

## *1. About the Manual*

Chapter 1 provides basic information about the User Guide, the information contained within each chapter and the conventions used in the manual.

## *2. Getting to know your copier/printer*

Chapter 2 provides basic information about the Document Centre ColorSeries 50. It includes an introduction to the Control Panel, Touch Screen, Duplex Automatic Document Feeder (DADF), Document Glass, Paper Trays and Paper Path.

It also reviews such topics as audio tones, dry ink, white border edges, ground fault protection, connectivity and options and accessories.

## *3. Making copies*

Chapter 3 provides a brief overview of the copy making process, including procedures for powering the copier/printer on and off.



The overview serves a two-fold purpose:

- It reviews the basic process of making copies, including selecting features and options, placing the original on the Document Glass or in the DADF, pushing the START button, and removing your output.

Information such as positioning the original document on the Document Glass or in the DADF is not repeated in later sections unless the feature requires special attention to such details.

- It reviews a number of commonly selected output settings.

For explanations of the various features of the copier/printer or more detailed procedures, turn to the appropriate section in later chapters.

## ***4. Basic Copying***

Chapter 4 includes information and procedures for the features that display on the Basic Copying tab:

- Output Color
- Copy Output
- Reduce/Enlarge
- Paper Supply

## ***5. Added Features***

Chapter 5 includes information and procedures for the factory default features that display on the Added Features tab:

- 2 Sided Copying
- Book Copying
- Margin Shift
- Edge Erase
- Original Size
- Mixed Size Originals

## ***6. Image Quality***

Chapter 6 includes information and procedures for the factory default features that determine output quality. The following features display on the Image Quality tab:

- Original Type
- Preset Color Balance
- Lighten/Darken
- Color Shift and Saturation
- Sharpness
- Variable Color Balance

## 7. Output Formats

Chapter 7 includes information and procedures for the features that affect special copy requirements. These features display on the Output Formats tab:

- Multiple-Up
- Repeat Image
- Transparency Separators
- Covers
- Invert Image
- Poster Mode

## 8. Job Assembly

Chapter 8 includes information and procedures for storing, retrieving, and deleting job features programming.

## 9. Paper

Chapter 9 provides information about paper trays and auto tray switching. It also includes the correct procedures for loading stock into the paper trays and specific information regarding the paper to use in the Document Centre ColorSeries 50.

For more general information about paper, refer to the *Color Materials Usage Guide*. For specific information about papers tested for use with the Document Centre ColorSeries 50, refer to the *Recommended Materials List*.

## ***10. Duplex Automatic Document Feeder***

Chapter 10 describes the Duplex Automatic Document Feeder by providing component names and functions, document specifications, and an overview of the document path. Safety precautions and instructions for document loading and jam clearance are also provided.

## ***11. Sorter/Mailbox***

Chapter 11 describes the optional Sorter/Mailbox by providing component names and functions, safety precautions, and instructions for use and jam clearance.

## ***12. Accessories***

Chapter 12 provides information on the Convenience Stapler and the optional High Capacity Feeder.

## ***13. Problem Solving***

Chapter 13 provides instructions for clearing paper jams and solving hardware, programming, and processor problems. It also provides a number of solutions for improving output quality.

## 14. Technical Information

Chapter 14 provides the specifications, requirements, capabilities, physical characteristics, estimated copy rates, and health and safety information for the copier/printer. Specifications for the DADF, the Sorter/Mailbox and the Finisher/Mailbox, as well as a metric conversion chart, are also included.

## 15. Index

Chapter 15 provides an index of key words and pointers to information about them.

### For more information

This guide should be used in conjunction with the *Document Centre ColorSeries 50 System Administration Guide*, the *Recommended Materials List* and the *Color Materials Usage Guide*.

For more information about the Document Centre ColorSeries 50 with the Digital Front End (DFE) refer to the *Document Centre ColorSeries 50 Printer User Guide*.

For site planning information, refer to the *Document Centre ColorSeries 50 Customer Site Planning Guide*.

The Xerox Web site is:

[www.xerox.com](http://www.xerox.com)

# 1

## Conventions used in this manual

Descriptions of features and options generally precede procedure steps. You may need to combine several procedures to achieve your desired results.

This manual uses a number of symbols to help you identify various kinds of information. These symbols are described below.

1 2 3...

The 1, 2, 3 symbol indicates the beginning of a procedure. Be sure to follow steps carefully in the order given.



**NOTE:** Notes provide extra information that is helpful for understanding and performing procedures.



**KEY POINT:** The key symbol draws your attention to important additional information, hints, or tips.



**WARNING:** This symbol alerts you to an operating or maintenance procedure, practice, or condition, that, if not strictly observed, could result in injury or loss of life.



**WARNING:** This hot surface symbol warns you of an area that may be very hot and would cause personal injury if touched.



**CAUTION:** This symbol alerts you to an operating or maintenance procedure, practice, or condition that, if not strictly observed, could result in damage to or destruction of equipment or loss of data.

## 2 Getting to know your copier/printer

### *Introduction*

The Document Centre ColorSeries 50 copier/printer, Figure 1, provides full-color, digital imaging at approximately 12 color copies and 50 black and white copies per minute, depending upon the paper size and the feeding orientation of the paper. It includes an anti-counterfeit function as standard equipment.

The purpose of this chapter is to familiarize you with the components of the Document Centre ColorSeries 50.



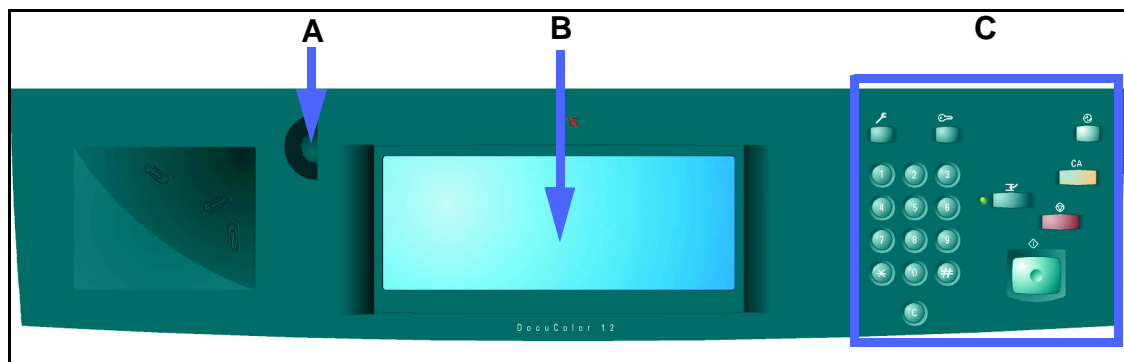
**NOTE:** The sections that follow deal primarily with using the Document Centre ColorSeries 50 in copier mode. For information on using the unit as a printer, see the ***Document Centre ColorSeries 50 Printer User Guide***.



**Figure 1: The Document Centre ColorSeries 50 Copier/Printer**

## Control Panel

Use the Control Panel to program the copier/printer for individual jobs.



**Figure 2: Control Panel**

As illustrated in Figure 2, you will use the Contrast dial (A) to make the Touch Screen (B) brighter or darker. Turning the dial clockwise darkens the screen and turning it counterclockwise lightens the screen.

The buttons on the right side of the Control Panel (C) and the electronic buttons on the Touch Screen are used to enter the job requirements.



## Control Panel Buttons

The function of the Control Panel hard buttons is described below. The numbers before the descriptions correspond to the numbered call-outs in Figure 3.

- 1 **Numeric Keypad** - Buttons 0 to 9 are used to select a copy quantity up to the value set in the Tools mode. These buttons are also used to enter an access number.

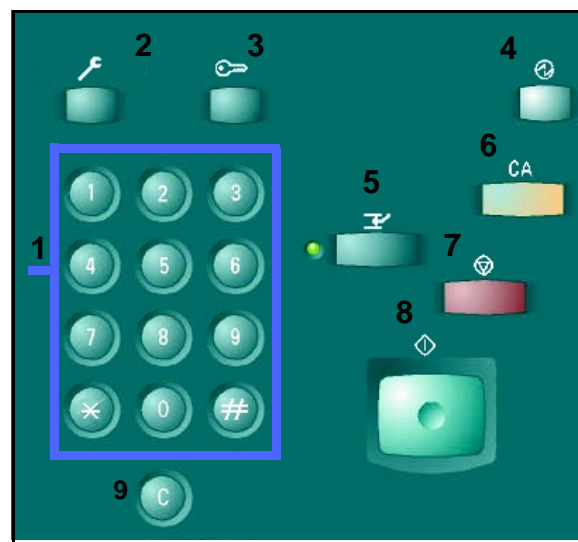


Figure 3: Control Panel buttons

- 2 **Administration** - This button is used by the System Administrator. The System Administrator uses this feature to make changes in the machine defaults and to create or modify user access numbers.



- 3 **Auditron Access** - The copier/printer can be activated in either the normal copying mode (without an access number) or in the Auditron Access mode.



If the copier/printer is in the Auditron Access mode, use the **Auditron Access** button to bring up the Access screen and enter your access number before trying to make any copies. Press the **Auditron Access** button after you complete your job to exit the user screens and ensure that no one else can make copies using your access number.

- 4 Energy saver button** - Press this button to initiate the Energy saver mode. The Document Centre ColorSeries 50 will also go into Energy saver mode automatically if it is not used for a length of time specified by the System Administrator in the Tools Mode.



The Energy saver mode enables the Document Centre ColorSeries 50 to use less power than when it is in Ready mode. Press the **Energy saver** button again to bring the copier/printer into a warm-up cycle.

- 5 Interrupt** - Press this button to stop the copier/printer during the copy process. The copier/printer completes the in-progress copy job. Once the copy job is completed, interrupt occurs and the interrupt job may be started. There are two indications the job has been interrupted:



- The copier/printer displays a message indicating that Job Interrupt has been selected, and it is ready to copy.
- The indicator light flashes to acknowledge that the Interrupt button has been pressed. It continues to flash until the copier/printer interrupts the job in process. When the Interrupt indicator light is on continuously (not flashing), a new job can be programmed.

After all interrupting jobs have been completed, press the **Interrupt** button again to exit the Interrupt mode and return to the first job.



**NOTE:** Interrupt should not be used when the machine is in a fault condition, except for Image Quality faults, alerts, or when a message indicates the job is incomplete. You also can not use the Interrupt button with the following features:

- Multiple-Up
- Auditron Access
- Tools Mode

- 6 **Clear All** - Press this button to clear all programming, including the copy quantity. All features are reset to their respective default settings. When the **Clear All** button is selected in Interrupt mode, default settings are applied only to the interrupting job.

CA



**NOTE:** **Clear All** is not applied if a job is in progress or if the machine is displaying a Jam or Interlock Open screen.

- 7 **Stop** - When you select the **Stop** button, the copier/printer stops the copy in process. A message asking if you want to press Start to continue the job or Clear to cancel the job is displayed on the Touch Screen.



- 8 **Start** - Press this button to start a copy job or to continue the copy process.

The copier/printer starts the first job automatically if the **Start** button is pressed during warm-up. The Touch Screen displays a message to indicate that the copier/printer will start automatically.



To cancel the Automatic Start feature before the copier/printer is done warming up, press the **Stop** button. Pressing **Stop** displays a message requesting you press **Start** to continue or **Clear** to cancel the job.

- 9 **Clear (C)** - Pressing the **Clear (C)** button, while programming a job, will reset the number of completed copies or sets back to 1. When the **Clear** button has been pressed, all preselected features remain and you may add or remove features until the copier/printer times out. Use the **Clear** button in the following cases:



- To clear the copy quantity that was selected and to reset the quantity to 1.
- To restore the copier/printer to the programming condition when a message displays on the Touch Screen indicating you should press **(C)** to clear a problem.

**NOTE:** **Clear** is not applied if the copier/printer is displaying certain jam messages or an Interlock Open screen.



- To cancel all the information previously entered and display blank fields ready for new data entry on the Access Number Entry screen.

When the **Clear** button is selected while the copier/printer is in Interrupt mode, it is applied only to the interrupting job.

When the **Clear** button is selected with the Stored Jobs feature, it is applied only to the selected job.

## Touch Screen

The Touch Screen can be used to select features and options that specify what kind of copy output you desire.

It also displays messages that indicate the copier/printer status during idle, run, or fault conditions.

### Message area

The message area at the top of the screen, Figure 4, contains space for messages concerning the copier/printer status, programming conflicts, and errors. The messages may also provide instructions for the operator.

The following are sample messages:

- The current job has been cancelled.
- Auto Paper select cannot be used with Repeat Image.
- Press Start to continue or Clear to cancel the job.

### Copy quantity

The copy quantity entered using the keypad appears in the upper-right corner of the message area, Figure 4.

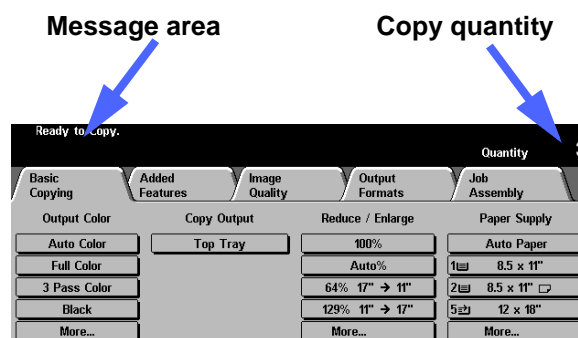


Figure 4: Touch Screen with Basic Copying Tab displayed

## Feature tabs

The Touch Screen displays five feature tabs you use to program the copier/printer:

- Basic Copying
- Added Features
- Image Quality
- Output Formats
- Job Assembly

The five feature tabs on the Touch Screen contain the programmable selections for each feature.

Figure 5 illustrates the default configuration for the Basic Copying tab.

**NOTE:** Features and options discussed in each chapter follow the factory default settings. You may see different settings, depending on the options your System Administrator has selected in Tools mode.

Ask your System Administrator for more information regarding these selections, or refer to the “Tools Mode” chapter of the *Document Centre ColorSeries 50 System Administrator Guide*.

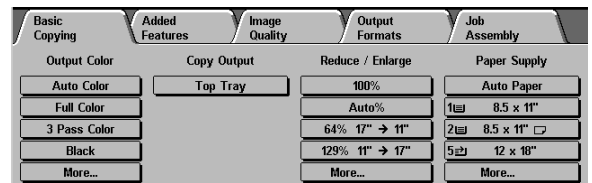


Figure 5: Basic Copying Tab



## Touch Screen button types and functions

Touch Screen buttons are selectable and shadowed. These buttons change appearance when selected. The standard button types are described and illustrated below:

Some buttons contain a feature name or feature choice.

### Option buttons

Some features have more options associated with them than can be displayed on one screen. Touching a **More...** button displays options on another screen or simply displays a screen with all relevant options when the button is pressed.

Some of these option buttons may have words on them, as illustrated in Figure 6.

### Icon buttons

Some feature and option buttons display icons.

Other option buttons are blank with words or graphics to the side, as illustrated in Figure 7. Touch the button to select the option described.

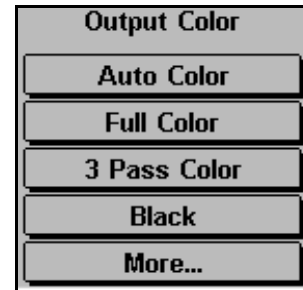


Figure 6: Sample labeled feature and option buttons

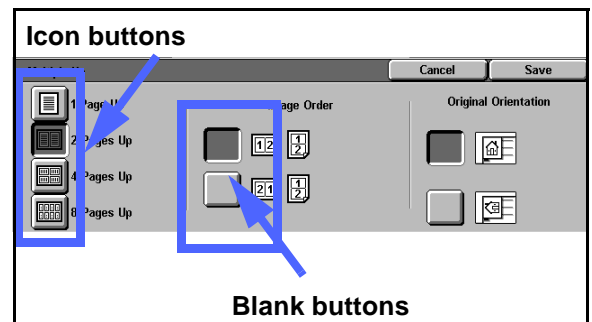


Figure 7: Sample icon and blank feature and option buttons

### Arrow buttons

Arrow buttons allow you to change values on the Control Panel for features such as Variable Reduce/Enlarge, as illustrated in Figure 8.

Touch the up or right arrow to increase the value; touch the down or left arrow to decrease the value.

Changes are displayed in the value boxes.

**NOTE:** All values referenced in this manual are set in millimeters (mm). You may find that the values on your copier/printer are set in inches. Despite this difference, the functions of screens using these values remain the same.



Figure 8: Arrow buttons

### Fixed selection buttons

Fixed value selection buttons allow you to select preset incremental changes for features, such as Lighten/Darken, as illustrated in Figure 9.

### Cancel and Save buttons

The **Cancel** button, Figure 10, allows you to cancel a feature or selected feature options without saving them.

The **Save** button, Figure 10, allows you to save a selected feature or options.

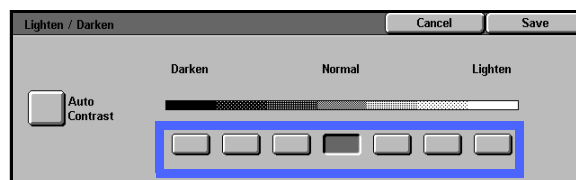


Figure 9: Fixed selection buttons



Figure 10: Cancel and Save buttons



## Using the Touch Screen

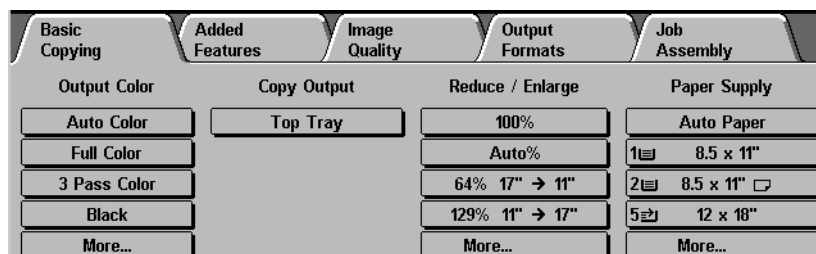


Figure 11: The Touch Screen

The copier/printer defaults to the Basic Copying tab, as illustrated in Figure 11. Touch the visible part of the tab to access the features for Added Features, Image Quality, Output Formats, or Job Assembly.



**NOTE:** The features available in each tab are assigned by your System Administrator using the Tools mode. Therefore, the features in the tabs on your copier/printer may vary from the screen samples shown in this manual.

Touch the desired button or icon button to select a feature. The selected button is highlighted.

Selecting some of the feature buttons causes another screen to display. These screens contain additional information and selections for that feature. Selecting some of the options on these screens displays additional detail screens.

## Audio tones

The copier/printer provides four types of audio tones to assist the operator in using the copier/printer. The System Administrator can adjust the volume of some of the audio tones using Tools mode.

- When a selection is made, the copier/printer beeps once when a button is touched to acknowledge the input.
- A triple beep tone sounds when a conflict occurs between the selections already made and the one being attempted. A triple beep also occurs when a feature is not available.
- The attention tone consists of a series of longer beeps. The attention tone sounds when the copier/printer warm-up cycle is complete.
- When a paper jam occurs or a paper tray runs out of paper, the copier/printer will sound five consecutive beeps. To resume a job, follow the directions for clearing the jam or refilling the paper tray as displayed on the copier/printer screen or as described in Chapter 13.

# Document Feeder and Document Glass

## Duplex Automatic Document Feeder (DADF)

The Duplex Automatic Document Feeder (DADF), Figure 12, acts like a Document Cover by shielding the scanner from external light.

### KEY POINT:



- Do not use excessive force to press down on the Duplex Automatic Document Feeder.
- You may not use the Auto Color option if the Duplex Automatic Document Feeder must remain open during copying. The copier/printer will not operate until you make a different selection under the Output Color feature.

After you place documents face up in the Duplex Automatic Document Feeder, ensure that the paper guide is against the document, and press the **Start** button to begin the scan operation. The feeder will then feed from the top of the stack and place the original face down in the DADF output tray on the right.



**Figure 12: Duplex Automatic Document Feeder**

## Document Glass

After you have selected the desired features, you should place the original document onto the Document Glass. Raise the Duplex Automatic Document Feeder and place (register) the document in the correct orientation on the Document Glass for long edge feed or short edge feed, as illustrated in Figure 13.

2



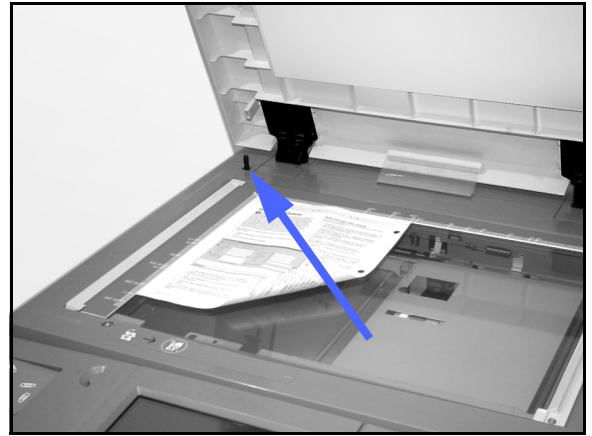
**NOTE:** You can set the orientation on a number of user screens or the System Administrator can change the default orientation in Tools Mode.

The document must be face down and in the upper-left corner of the Document Glass.

Lower the Duplex Automatic Document Feeder and press the Start button to begin the scan operation.



**KEY POINT:** The maximum scanned image size is 11 x 17 inches or A3. To copy an image of this size onto 12 x 17.7 inch or SRA3 paper, you must select 102% enlargement.



**Figure 13: Registering a document on the Document Glass**

## Auto Image Rotation

The Document Centre ColorSeries 50 offers an automatic rotation feature for 8.5 x 11 inch, or A4, original documents input from both the Duplex Automatic Document Feeder and the Document Glass.

If the copier/printer detects that the image area of a document that is being scanned short edge first will not fit on the paper, it will automatically rotate the image 90° to ensure that the entire image appears on the output (long edge first).

2



**NOTE:** Auto Image rotation only works when the Auto Tray feature is selected. For information on the Auto Tray feature, see chapter 4, “Basic Copying”.

To disable Auto Image Rotation, select a specific tray from the Paper Supply tab. Use the Reduce/Enlarge feature, on the Basic Copying tab, to fit the image onto the paper selected.



**NOTE:** For information on the Reduce/Enlarge feature, see chapter 4.

## White border edges on copies

All copies made on the Document Centre ColorSeries 50 have white border edges on four sides of the copy, as illustrated in Figure 17. There is a factory setting which removes 2 mm from the left, right, top and bottom edges of the scanned original. This factory setting cannot be altered.

If the white border edges result in image loss on your copies, select the Copy All (93% reduction) option in the Reduce/Enlarge feature to minimize the image loss. You may also use the Auto Center feature to ensure the original is centered on the copy.

Refer to the Edge Erase feature in the “Added Features” chapter for more information about edge erase.



**Figure 14: Copy with white border edges**

# Paper Trays and Paper Path

## Paper Trays

Paper Trays 1, 2, 3, and 4 are located at the lower front of the copier/printer, as illustrated in Figure 15. Paper Tray 5 (sometimes called the Bypass Tray or Multiple Sheet Inserter) is on the left of the copier/printer, as illustrated in Figure 15 and Figure 16.

Paper Tray 1 can accommodate 8.5 x 11 inch, A4, A5, or B5 paper.

Paper Trays 2, 3, and 4 can accommodate an assortment of standard paper sizes, from 8 x 10 inch through 11 x 17 inch, and A3 through B5.

Tray 5 can accommodate non-standard paper sizes up to 12 x 18 inches or 12.6 x 17.7 inches (SRA3). Tray 5 can also accommodate special materials such as transparencies and heavy weight paper.

**NOTE:** Paper Trays 2, 3, and 4 can be set up to accommodate 12 x 18 inch paper by your Xerox service representative.

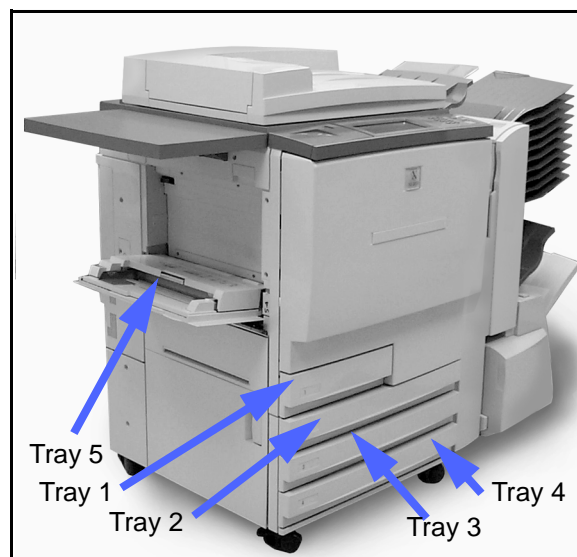


Figure 15: Paper Trays

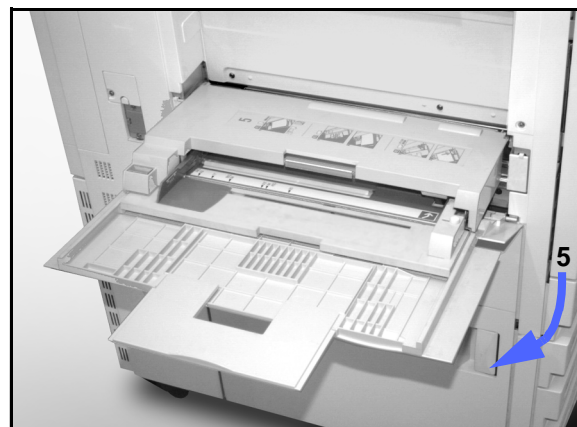


Figure 16: Paper Tray 5

## Paper Path Areas

- 1 Paper Tray 1
- 2 Paper Tray 2
- 3 Paper Tray 3
- 4 Paper Tray 4
- 5 Paper Tray 5
- 6 Preregistration Area
- 7 Transfer Belt
- 8 Fuser
- 9 Output Tray, Sorter/Mailbox or Finisher/Mailbox
- 10 Duplex path (10a, 10b, 10c)

As illustrated in Figure 17, the paper is fed from the selected paper tray (1-5) to the Paper Transport rollers.

The Paper Transport rollers deliver the paper to the Preregistration Area (6) in the Paper Path Module.

From the Preregistration Area, the paper is registered onto the Transfer Belt (7), and the image is transferred.

The paper proceeds to the Post Transfer Area and into the Fuser (8), where the image is fixed to the paper permanently.

From the Fuser, the paper passes either through the Post Fuser Area and into the Output Tray, Sorter/Mailbox or Finisher/Mailbox (9) or into the duplex path (10a, 10b, 10c).

**NOTE:** All paper fed to the copier/printer from Paper Tray 5 will always be delivered to the Output Tray.

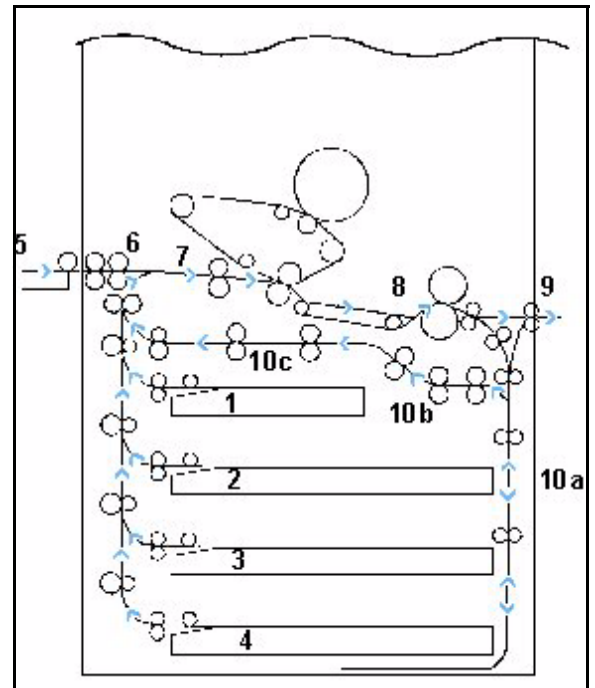


Figure 17: Paper Path



## Output delivery

Output is delivered differently, depending on the configuration of your system and on the job options you choose.

If you use the Document Glass to input the original document, the requested number of copies will be delivered, face up, to the Output Tray or Offset Catch Tray on the right side of the copier/printer.

If you use the Duplex Automatic Document Feeder to input the original document, the output will be delivered in one of the following ways. (The example uses a three-page job.)

- Basic, single-copy output is delivered face down in 1, 2, 3 order.
- Multiple-copy output is delivered to the Output Tray face up with copies of the first page on the bottom and the last page on top, as, for example, in 3/3/3, 2/2/2, 1/1/1 order.
- For a multiple-copy job in a configuration with a Sorter/Mailbox, one set of output is delivered, face down, to each of three separate bins in 1, 2, 3 order.

## Dry ink (Toner)

The Document Centre ColorSeries 50 copier/printer has a four-color development system that uses a combination of dry inks (toners) to produce the output colors. The dry ink colors are magenta, cyan, yellow, and black.

Each dry ink is contained in a dry ink cartridge.

When dry ink is running low in a particular cartridge, the Touch Screen displays a message indicating that it is low. When a cartridge is empty, the Touch Screen displays a message indicating that the cartridge needs to be replaced. The Document Centre ColorSeries 50 will not make copies using that color until the cartridge has been replaced.

Refer to the *Document Centre ColorSeries 50 System Administration Guide* for information about replacing the dry ink cartridges.

## Options and accessories

Table 1 lists the optional equipment and standard accessories for the Document Centre ColorSeries 50 copier/printer.

Option	Comment
<b>Offset Catch Tray (OCT)</b>	The OCT can hold up to 500 sheets of 20 lb (75 gsm) paper.
<b>Convenience Stapler</b>	The Convenience Stapler is used for restapling original documents after copies are made.
<b>Sorter/Mailbox</b>	The Sorter/Mailbox can function as either a 10-bin sorter (copier only) or as a mailbox (printer only).
<b>Finisher/Mailbox</b>	The Finisher/Mailbox can function as either a 10-bin sorter (copier only) or as a mailbox (printer only). It also allows you to staple up to 50 documents (printer only).
<b>Work Surface Extension</b>	A Work Surface Extension can be added to the Document Centre ColorSeries 50 if it does not have a Duplex Automatic Document Feeder (DADF), a Sorter/Mailbox or a Finisher/Mailbox.
<b>High Capacity Feeder (HCF)</b>	The High Capacity Feeder (HCF) is attached to the copier/printer and functions as Tray 6. The HCF can hold a maximum of 2,000 sheets of 20 lb. (80 gsm) paper.
<b>Edit Pad</b>	The Edit Pad is used to add, delete, or change parts of an original document before copying.
<b>Foreign Interface</b>	The Foreign Interface allows any customer to add a feature to the Document Centre ColorSeries 50. It attaches to the Document Centre ColorSeries 50 and to a device such as an Auditron or a Coin Op/Debit Card device to enable pay for copy/print.
<b>Mobility Plate</b>	The Mobility Plate provides a surface whereby the machine can be moved when service is needed. This is useful in tight spaces or on carpet when the machine can be difficult to move.

**Table 1: Document Centre ColorSeries 50 Options and Accessories**

For more information about any one of the above accessories and/or for ordering one of the accessories, contact your Xerox representative.

## Safety Features

The Document Centre ColorSeries 50 copier/printer is equipped with a safety feature called a **Ground Fault Protector**, Figure 18. This device removes all electrical power to the copier/printer if a fault is detected in the power supply to the copier/printer.

If power is interrupted to the copier/printer, perform the following:

1 2 3...

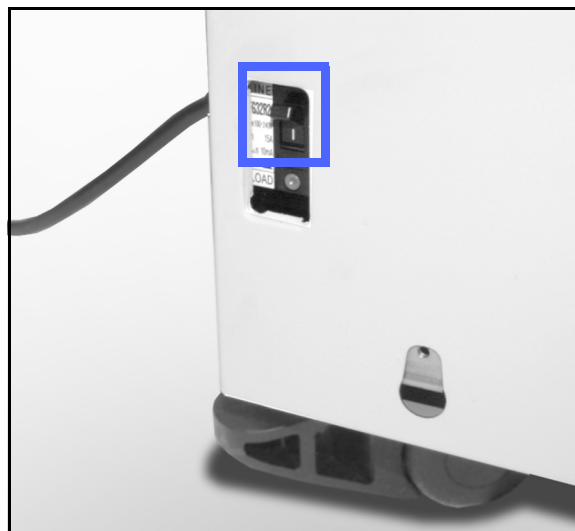
**1** Locate the Ground Fault Protector on the back of the copier/printer in the lower left corner.

**2** If the device has tripped, the switch will be in the Off (down) position. Flip the switch up to restore power.

If the device interrupts power to the copier/printer again, or if power has not been restored by the above procedure, call your Xerox service representative.



**CAUTION:** The Fuser Roll remains in a cammed-up position if power to the copier/printer is interrupted while the copier/printer is in use. If the Fuser Roll remains in the cammed-up position for a prolonged period of time, the Fuser Roll can be damaged and copy quality defects can occur. To prevent any damage, the copier/printer should be powered on and a copy/print made as soon as the power is restored. The Fuser Roll will not be released from the cammed-up position until the power is restored, the Power Switch is in the On position, and the Start button is pressed again.



**Figure 18: Ground Fault Protector**

## *Moving the Copier/Printer*

The Document Centre ColorSeries 50 copier/printer should not be moved after it has been installed. Improperly moving the copier/printer may damage the equipment, carpet or floor.

If you must move the copier/printer, please ask your Xerox representative to assist you.



## 3 Making copies

This chapter includes a brief introduction to the various features available to you when making copies with the Document Centre ColorSeries 50. It also includes a procedure that quickly leads you through some of these features and instructions for powering the copier/printer on and off.

You can find detailed information about the features and options referred to in this chapter in the chapters that follow.

## Power on and off

### Switching the power on

Press the Power Switch to the On position to switch the copier/printer on. A message will display asking you to wait.

After the Power Switch is pressed to On, the copier/printer takes approximately eight minutes to come to a Ready to Make Copies condition.

### Switching the power off

Press the Power Switch to the Off position to switch the copier/printer off, as in Figure 1. The Touch Screen will go dark.

**Allow the copier/printer to remain off for approximately 30 seconds before switching it on again.**



Figure 1: Power Switch - Off Position

3



**NOTE:** If the **Start** button is pressed during warm-up, the copier/printer will automatically start the job after it comes to the Ready state. Pressing **Stop** displays a message allowing you to either cancel the job by pressing **Clear**, or continue the job by pressing **Start**.



**CAUTION:** The Fuser Roll remains in a cammed-up position if power to the copier/printer is interrupted while the copier/printer is in use. If the Fuser Roll remains in the cammed-up position for a prolonged period of time, the Fuser Roll can be damaged and copy quality defects can occur. To prevent any damage, the copier/printer should be powered on and a copy made as soon as the power is restored. The Fuser Roll will not be released from the cammed-up position until the power is restored, the Power Switch is in the On position, and the Start button is pressed again.



# Loading Paper

## Paper Trays 1, 2, 3, or 4

1 2 3...

- 1 Pull out the paper tray.
- 2 Place the appropriate paper into the tray, as illustrated in Figure 2. Adjust the paper guides. You can not adjust the guides for Tray 1. Contact a Xerox Service Representative to adjust the paper guides for Tray 1.

The paper level must not be above the MAX fill line, as indicated in the tray.

- 3 Close the paper tray slowly to avoid skewing the paper stack. Ensure that the paper tray is fully closed.

Refer to chapter 9, "Paper," for more detailed information.



**KEY POINT:** For best results, use only the paper sizes and paper weights indicated in chapter 9 and be sure that the paper guides of the tray are adjusted to the correct paper size.



Figure 2: Loading a Paper Tray

## Paper Tray 5

Paper Tray 5 is located on the left side of the copier/printer. Paper Tray 5 is used for transparencies, heavy weight papers, and non-standard size paper. A maximum of 100 sheets of 20 lb (75 gsm) paper may be loaded into Paper Tray 5.

1 2 3...

- 1 To access Paper Tray 5, open the cover and extend the tray.
- 2 Place the paper on the tray. Ensure that the paper is all the way in and adjust the paper guides, as illustrated in Figure 3.

Do not fill Paper Tray 5 above the fill line on the paper guide.



**NOTE:** Remove all copy stock from Paper Tray 5 when the job is complete. Dust and moisture can affect stock, causing copy quality defects.



**Figure 3: Loading Paper Tray 5**

## Quick copy

The procedure below helps you make simple copies without changing any options.

1 2 3...

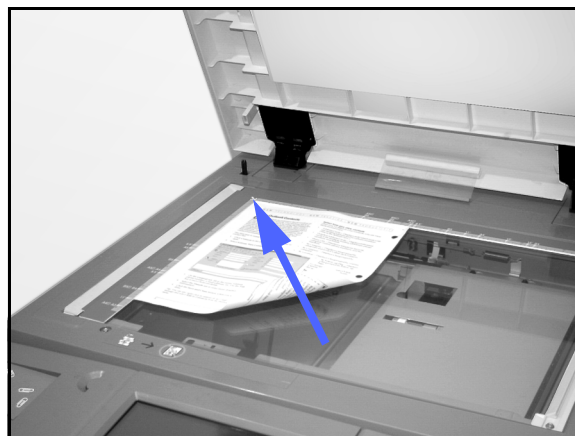
**1** Press the **Clear All (CA)** button to clear any previous programming.

**2** Perform one of the following:

- Raise the Duplex Automatic Document Feeder (DADF) or Document Glass Cover and place the document face down onto the Document Glass, as in Figure 4.

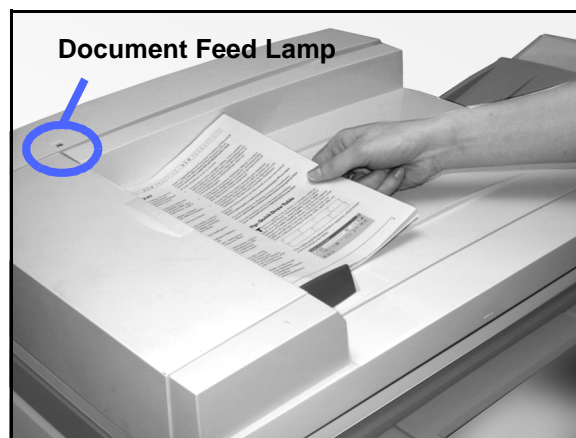
Make sure the document lies against the registration area at the left rear corner of the glass. The Registration area is identified with an arrow.

Lower the Duplex Automatic Document Feeder (DADF) or Document Glass Cover.



**Figure 4: Placing a document on the Document Glass**

- If you have a Duplex Automatic Document Feeder, place the document face up into the DADF Tray, as in Figure 5. The Document Feed Lamp lights when the document is in the correct position. Ensure that the paper guide is against the original document.



**Figure 5: Placing a document in the DADF Feeder Tray**

**3** Press the **Start** button.

**4** When copying is completed, perform the following:

- Remove the copies from the Output Tray, Sorter/Mailbox or the Finisher/Mailbox on the right side of the copier/printer.
- Remove the original document(s) from the Document Glass or Original Catch Tray of the DADF.

## Making copies using features

The feature tabs on the Touch Screen (Figure 6) enable you to configure the copier/printer to suit your copying needs.

The procedure below leads you quickly through a number of features you may want to use in making copies. It assumes that the feature tabs are in the default configuration. You can find detailed information about the features and options referred to in this section in the chapters that follow.

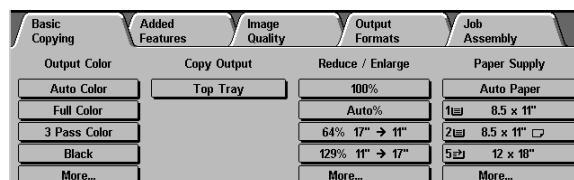


Figure 6: Touch Screen with Basic Copying tab in Default Configuration

3



**NOTE:** The Auto Center feature is included in the Margin Shift options.

1 2 3...

- 1 Press the **Clear All (CA)** button to clear any previous programming.  
  
Use any of steps 2 through 11 that apply to your job and desired output.
- 2 Select the required quantity.
  - Use the Keypad to enter the quantity.
  - Press the **Clear (C)** button on the Numeric Keypad to clear an incorrect quantity.

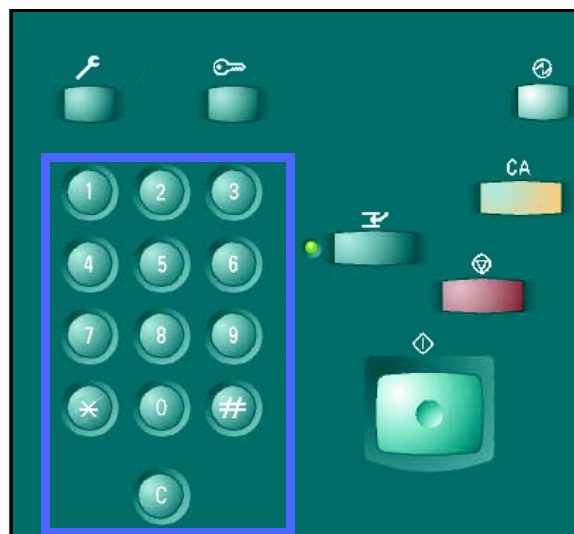


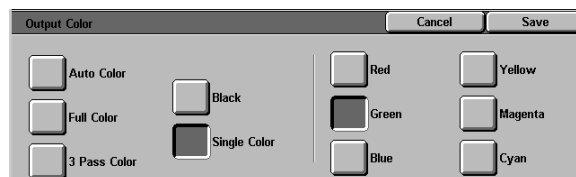
Figure 7: Keypad and Clear Key

- 3** Select an option in the Output Color feature if a setting other than the default, Auto Color, is desired. Auto Color enables the copier/printer to select either Full Color or Black and White to use for the output. This feature will reduce color dry ink used by automatically using only black dry ink for black and white jobs.

Perform one of the following:

- Touch the desired Output Color option on the Basic Copying tab.
- Touch **More...** to see additional options, as illustrated in Figure 8.

Touch the desired option and touch the **Save** button to return to the Basic Copying screen.

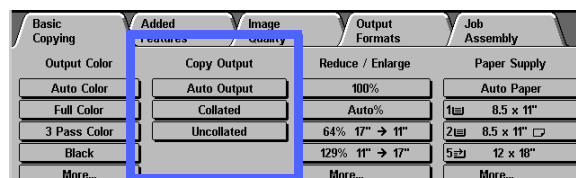


**Figure 8: Output Color screen**

- 4** If there is a Sorter/Mailbox or Finisher/Mailbox, and the copier/printer is configured for a Sorter, touch the appropriate Copy Output option:

- Touch **Auto Output** to direct uncollated output to the lower Offset Catch Tray or the Finisher Output Tray.
- Touch **Collated** to direct up to 10 sets of collated output to the Sorter/Mailbox Bins.
- Touch **Uncollated** to direct uncollated output to the Sorter/Mailbox Bins.

**NOTE:** See the section on “Copy Output” in chapter 4 and chapter 11, “Sorter/Mailbox,” for additional information.



**Figure 9: Copy Output feature**

- 5 Select an option in the Reduce/Enlarge feature if a setting other than the default (100%) is desired.

Perform one of the following:

- Touch the desired Reduce/Enlarge option on the Basic Copying tab.
- Touch **More...** to see additional options, as illustrated in Figure 10.

Touch the desired option and touch the **Save** button to return to the Basic Copying screen.

**NOTE:** The Auto Paper selection under the Paper Supply feature can not be used with the Reduce/Enlarge feature. See step 6 or chapter 4 for more information on the Paper Supply feature.



- 6 Select an option in the Paper Supply feature if a tray other than the default (Auto Paper) is desired.

Perform one of the following:

- Touch the desired Paper Supply option on the Basic Copying tab.
- Touch **More...** to see additional options, as illustrated in Figure 11.

Touch the desired option and touch the **Save** button to return to the Basic Copying screen.

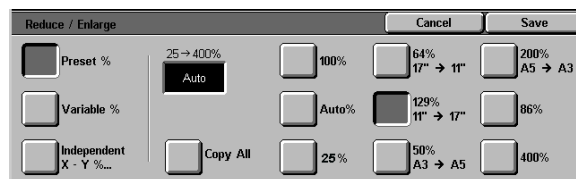


Figure 10: Reduce/Enlarge screen

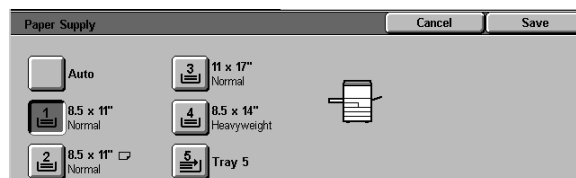


Figure 11: Paper Supply screen

- 7 Touch the Added Features tab and touch the Original Size button to display the Original Size screen, Figure 12.

Touch a standard option for Original Size or use the horizontal and vertical arrows to set a non-standard size if a setting other than the default (Auto Detected) is desired.

Touch the **Save** button to return to the Added Features tab.

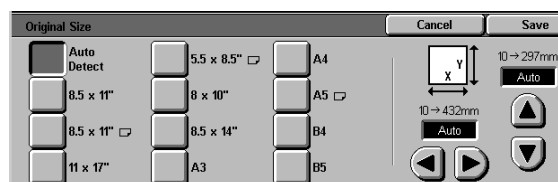


Figure 12: Original Size screen

- 8 On the Added Features tab, touch the **2 Sided Copy** button and perform one of the following.

- If you are using a DADF, touch the desired option from those illustrated in Figure 13:
  - **1 to 1 Sided** button for default one-sided copies
  - **1 to 2 Sided** button for two-sided copies from one-sided input, as illustrated in Figure 14. Touch **Flip on Long Edge** for two-sided, head-to-head output (e.g., books). Touch **Flip on Short Edge** for two-sided, head-to-toe output (e.g., calendars).



Figure 13: 2 Sided Copying options

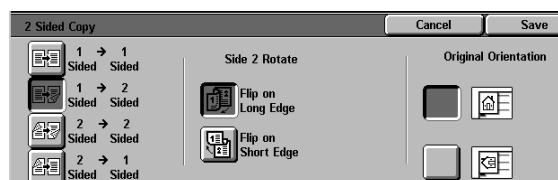


Figure 14: 1 to 2 Sided Copying option



- **2 to 2 Sided** button for two-sided copies from two-sided input.

Select the Side 2 Rotate button to display the Side 2 Rotate screen, illustrated in Figure 15. You must specify the original orientation and the copy orientation.

Touch **Right/Left open** for two-sided, head-to-head output (e.g., books). Touch **Top/Bottom open** for two-sided, head-to-toe output (e.g., calendars).

- **2 to 1 Sided** button for one-sided copies from two-sided originals, illustrated in Figure 16. Touch **Flip on Long Edge** if your original documents are two-sided, head-to-head. Touch **Flip on Short Edge** if your original documents are two-sided, head-to-toe output.

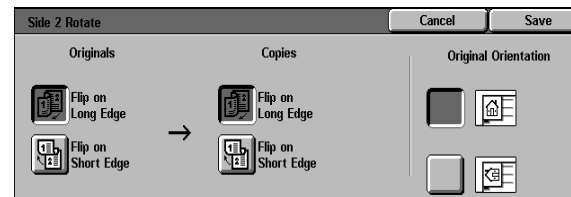


Figure 15: Side 2 Rotate screen



Figure 16: 2 to 1 Sided Copying option

**NOTE: 2 to 2 Sided** copying and **2 to 1 Sided** copying can only be applied when using the DADF. You must follow the procedure for Manual 2 sided copying (chapter 5) if you want to use the Document Glass for 2 to 2 Sided copying. For **2 to 1 Sided** copying on the Document Glass, select **1 to 1 Sided** and copy each side of the original individually.

**NOTE:**

- If you are not using a DADF, perform one of the following:
  - Touch the **1 Sided** button for default one-sided copies.
  - Touch the **1 to 2 Sided** button to display the 2 Sided Copy screen. Under Side 2 Rotate, perform one of the following:
    - Touch **Flip on Long Edge** for two-sided, head-to-head output (e.g., books).
    - Touch **Flip on Short Edge** for two-sided, head-to-toe output (e.g., calendars).

Touch the button next to the icon that most closely resembles the Original Orientation for the document on the Document Glass.

- 9 Touch the Image Quality tab and touch the **Original Type** icon to display the Original Type screen, Figure 17.

Touch an option for Original Type if a setting other than the default (Photo & Text) is desired.

Touch the **Save** button to return to the Image Quality tab.

- 10 On the Image Quality tab, touch the **Lighten/Darken** button to display the Lighten/Darken screen, as illustrated in Figure 18.

Perform one of the following:

- Touch the **Auto Contrast** button to have the copier/printer determine the darkness or lightness of the original document and adjust the output darkness or lightness automatically.
- Using the illustrated bar as a guide, touch the button under the section that best reflects the desired degree of darkness or lightness.

Touch the **Save** button to return to the Image Quality tab.

- 11 On the Image Quality tab, touch the **Preset Color Balance** button to display the Preset Color Balance screen, illustrated in Figure 19.

Touch the appropriate button for the desired color balance.

Touch the **Save** button to return to the Image Quality tab.

- 12 If other features are desired, select the appropriate feature tab and feature button on the Touch Screen. Refer to the appropriate chapters for more detailed information about each feature.

**NOTE:** To access the Auto Center option, select **Margin Shift** under the **Added Features** tab. For further direction on using this feature, see Chapter 5, "Added Features".



Figure 17: Original Type screen with Text option selected

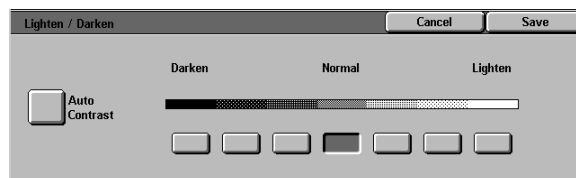


Figure 18: Lighten/Darken screen

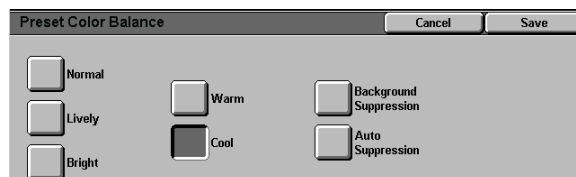


Figure 19: Preset Color Balance screen

### 13 Perform one of the following:

- Raise the Duplex Automatic Document Feeder (DADF) or Document Glass Cover and place the document, face down, on the Document Glass, as in Figure 20.

Ensure that the document lies against the registration area at the left rear corner of the glass. The Registration area is identified with an arrow.

Lower the Duplex Automatic Document Feeder (DADF) or Document Glass Cover.

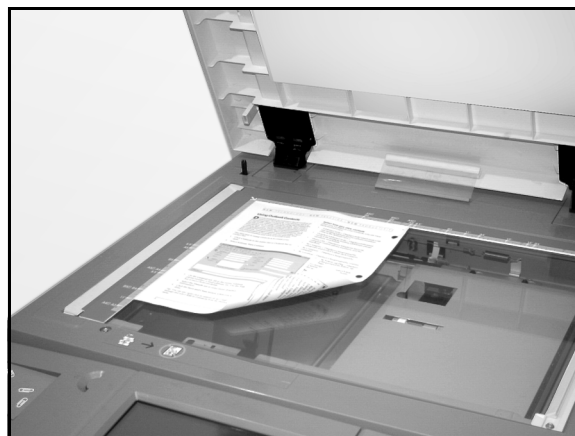


Figure 20: Placing a document on the Document Glass

- If you are using a Duplex Automatic Document Feeder, place the document face up into the DADF Tray, as in Figure 21. The Document Feed Lamp lights when the document is in the correct position. Ensure that the paper guide is against the original document.

### 14 Press the **Start** button.

### 15 When copying is completed, perform the following:

- Remove the copies from the Output Tray, Sorter/Mailbox or Finisher/Mailbox on the right side of the copier/printer.
- Remove the original document(s) from the Document Glass or Original Catch Tray of the DADF.
- If you used Paper Tray 5, remove the copy stock from Tray 5 and store it properly.

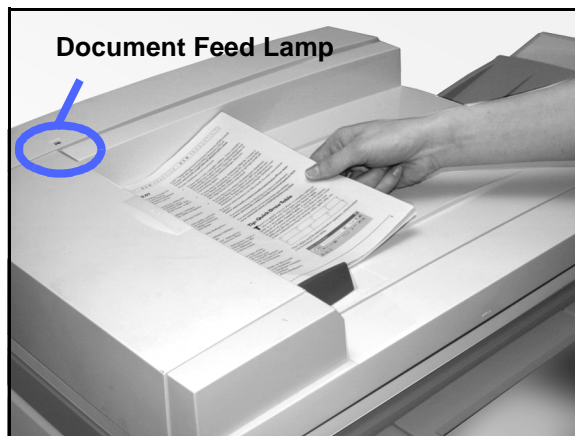


Figure 21: Placing a document in the DADF Feeder Tray

## *Preserving your color output*

Color output, like black and white output, should be handled and stored carefully to preserve its appearance and usability. Your color output, which is made from color dry inks (toners), requires some attention. To help maintain high quality color output, Xerox recommends that you consider the following:

### *Adhesive tapes and adhesives*

Some adhesive tapes and adhesives (glues) contain solvents that may soften or dissolve the color dry inks. Adhesive tapes and adhesives should be tested on sample output before being applied to your valuable copies or prints. Adhesive tape may also pull off the dry inks when the tape is removed.

### *PVC and color output*

If your output comes in contact with PVC and PVC-type (vinyl) plastics, the dry inks may soften and transfer to the plastic. Use polypropylene and polyethylene plastics for any covers or binders that come in contact with the color output.

## 4 Basic Copying

### Overview

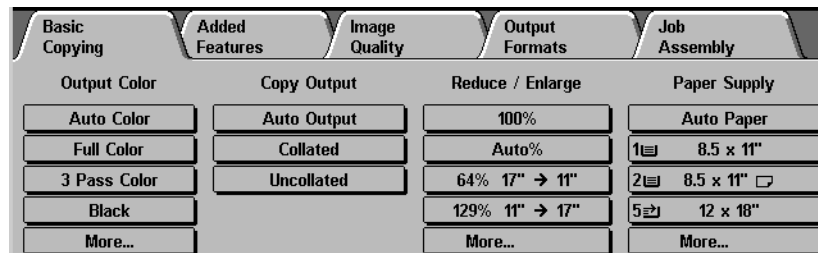


Figure 1: Basic Copying Tab

The Basic Copying tab, illustrated in Figure 1, displays frequently used features.

### Output Color

The Output Color feature allows you to select the colors desired for copying.

### Copy Output

The Copy Output feature enables you to select the destination of the output. Available options differ, based on whether the Document Centre ColorSeries 50 uses the Output Catch Tray, a Sorter/Mailbox or a Finisher/Mailbox.

## *Reduce/Enlarge*

The Reduce/Enlarge feature allows you to select the size of the output image from preset values or through independent ratios for the image length and width. The Document Centre ColorSeries 50 can also be set up for automatic reduction/enlargement.

## *Paper Supply*

The Paper Supply feature allows you to select the tray that contains the correct output paper size and type.

Your System Administrator may have added other features. Descriptions of features other than those listed here may be found in other chapters.

### **KEY POINT:**



- When you select the **More...** button, you see additional options on another screen. If you choose an option from this secondary screen, save your selection and return to the tab. The selected option is displayed beside the word **More...**
- Features and options discussed in this chapter follow the factory default settings. You may see different settings, depending on the options your System Administrator has selected in Tools mode.

## Output Color

The Output Color feature, Figure 2, allows you to select the desired output color.

The output color options displayed on the Basic Copying tab are Auto Color, Full Color, 3 Pass Color, and Black.

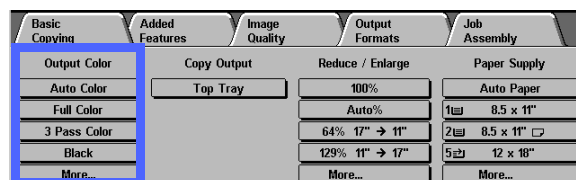


Figure 2: Output Color options on the Basic Copying Tab

If you select the **More...** button, the screen also displays the Single Color option. Touching the Single Color button displays the options of Red, Green, Blue, Yellow, Magenta and Cyan, as illustrated in Figure 3.



**NOTE:** Gold, silver, and fluorescent colors cannot be copied accurately on this copier/printer. The dry inks (toners) do not contain the metallic particles necessary to accurately reproduce gold and silver colors or the fluorescent properties that are required to reproduce fluorescent colors.

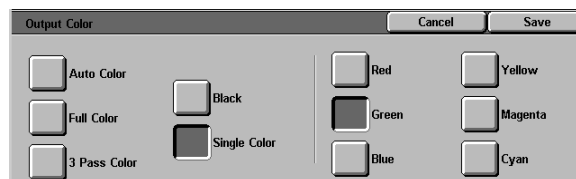


Figure 3: Output Color Screen

## Auto Color

The Auto Color option enables the copier/printer to determine automatically if the document is black and white or color. If the document is black and white, the Black option is selected automatically. If the document is colored, the Full Color option is selected.

The Auto Color feature will reduce color dry ink used by applying only black dry ink for black and white jobs.



**NOTE:** The Duplex Automatic Document Feeder or Document Glass Cover must be closed for the Auto Color option to function. If the Duplex Automatic Document Feeder or Document Glass Cover cannot be closed, an Output Color other than Auto Color must be selected.

For the scanner to accurately sense the presence of color on a document during the prescan cycle, the color area on the document must be greater than 2 in<sup>2</sup> (approximately 50 mm<sup>2</sup>). If the color area is less than 2 in<sup>2</sup>, select the Full Color option.

With the Auto Color option, some very dark colors may be sensed as black and therefore copied as black. In these cases, select the Full Color option.



## Full Color

The Full Color option combines all four dry ink colors (black, cyan, magenta, and yellow). You should select the Full Color option when the document contains color and black, as in Figure 4.

In Full Color mode, output is produced at approximately 12 copies/prints per minute.

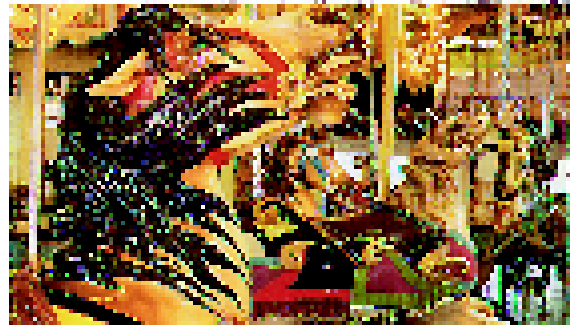


Figure 4: Example of Full Color

## 3 Pass Color

The 3 Pass Color option combines the three colors of dry inks (cyan, magenta, and yellow), as illustrated in Figure 5. You should select the 3 Pass Color option when the document contains very little black, or when Process Black is acceptable over a true reproduction black, such as is used with photographs.

**NOTE:** Process Black is a combination of Cyan, Magenta and Yellow. For example, in Figure 5, the three dry inks are combined together in equal amounts to produce black. No Black ink is used.



Figure 5: Example of 3 Pass Color

## Black

The Black option should be selected when the desired output is a black and white copy. Black and white copies can be made from any document. When you select Black, the copier/printer will use black dry ink (toner) only, as in Figure 6.

With the Black option, the copier/printer produces 50 copies per minute when it uses 8.5 x 11 inch (A4) paper that is fed long edge first.



Figure 6: Example of Black

## Single Color

The Single Color option, accessed through the **More...** button, changes the image and/or text on a document to one color other than black (Figure 7). Single color copies, as illustrated in Figure 7, can be made from any color or black and white document. The Touch Screen directs you to select one of six preset colors (Red, Green, Blue, Yellow, Magenta, or Cyan). With the Single Color option, the copier/printer produces fewer than 50 copies per minute when it uses 8.5 x 11 inch (A4) paper that is fed long edge first.



Figure 7: Example of Single Color

4



**NOTE:** Using this option will not create a color separation. Close examination will reveal that multiple colors are used to create the output that appears to be a “single” color.

## Selecting Output Color

On the Basic Copying tab, select the desired Output Color option.

### Selecting a Single Output Color

1 2 3...

- 1 On the Basic Copying tab, touch the Output Color **More...** option to display the Output Color screen, as in Figure 8.
- 2 Touch **Single Color**.
- 3 Touch the desired color.
- 4 Touch **Save** to return to the Basic Copying tab.

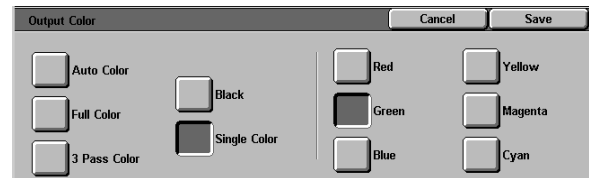


Figure 8: Output Color Screen with Single Color Options

# Copy Output

The Copy Output feature enables you to select the destination of the output and determine whether it is to be collated or uncollated. For example, three copies of a three-page collated job will result in three sets of copies in 1, 2, 3 order delivered to separate sorter bins. Three copies of a three-page uncollated job will result in output in the order 1, 1, 1/ 2, 2, 2/ 3, 3, 3 being delivered to separate bins.

**NOTE:** Collated and uncollated options are only available if your copier/printer has a Sorter/Mailbox or a Finisher/Mailbox that is configured as a Sorter.

If the Document Centre ColorSeries 50 does not have a Sorter/Mailbox or a Finisher/Mailbox, only one output tray is listed, as illustrated in Figure 10. No other option is available.

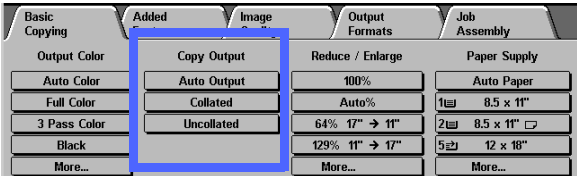


Figure 9: Copy Output with optional Sorter/Mailbox

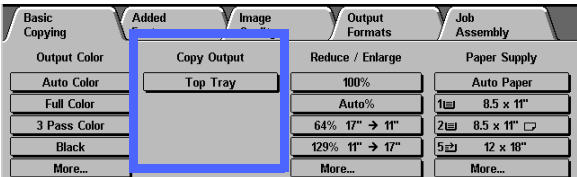


Figure 10: Copy Output without optional Sorter/Mailbox

If the Document Centre ColorSeries 50 has a Sorter/Mailbox, output may be directed to the Sorter/Mailbox Bins or Offset Catch Tray. The same options are available if your copier/printer has a Finisher/Mailbox.

Use the following procedure to determine your copy output destination.



**NOTE:** If the Sorter/Mailbox or the Finisher/Mailbox is configured as a Mailbox, only the Top Tray option will be visible on the Touch screen. The Mailbox option is only available when the Document Centre ColorSeries 50 is in printer mode. See the **Document Centre ColorSeries 50 Printer User Guide**.

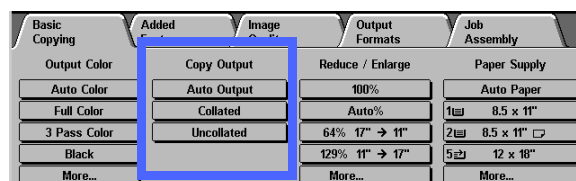
1 2 3...

**1** On the Basic Copying tab, touch the appropriated Copy Output option, as illustrated in Figure 11.

- Touch **Auto Output** to direct uncollated output to the lower Offset Catch Tray. Your stacks will not be offset.
- Touch **Collated** to direct up to 10 sets of collated output to the Sorter/Mailbox Bins. The copier/printer screen will read, "The quantity is outside the acceptable range. It has been changed to 10," if you request more than 10 sets.  
  
If you require more than 10 sets, you must break them up into multiples of 10 to copy.

- Touch **Uncollated** to direct uncollated output to the Sorter/Mailbox Bins.  
  
If the job has more than 10 original documents, production will pause after the tenth set has been delivered until you clear the bins of all output and press **Start**.

**NOTE:** Any job that uses Paper Tray 5 is always delivered to the Offset Catch Tray.



**Figure 11: Copy Output options with optional Sorter/Mailbox**

4

## Reduce/Enlarge

The Reduce/Enlarge feature allows you to copy the image at different magnifications.

You can select one of the following options on the Basic Copying tab, as illustrated in Figure 12.

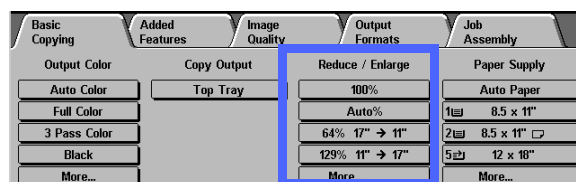


Figure 12: Reduce/Enlarge options on the Basic Copying Tab

### Percentage options

Depending on what the System Administrator has selected, you see several percentage options for reduction/enlargement.

For example, use the **100%** option to ensure copies are the same size as the original document. The option 78% reduces an 8.5 x 14 inch image to fit on 8.5 x 11 inch paper.

Copies may be reduced to 25% or enlarged to 400%.

4



**KEY POINT:** If the image on the document extends to the edges of the paper, select the Copy All option to minimize image loss on the copies. This option reduces the copy to approximately 93% of the original document size.

## Auto%

The Auto% option automatically reduces or enlarges the copy, based on the size and orientation of the document and the paper supply selected. This option is applied only to standard size documents.



**KEY POINT:** Select Auto% when the document and the copy paper are different sizes.

**KEY POINT:** A factory default setting of 2 mm edge erase applies to making copies. This setting cannot be altered.

The copy image will be reduced or enlarged in the same proportions for X (horizontal) and Y (vertical) directions.



**KEY POINT:** The X and Y directions are always determined in reference to the registration arrow, located around the Document Glass, Figure 13. The X direction is always along the long edge of the Document Glass, and the Y direction is along the short edge of the Document Glass. The X and Y direction references on the Document Glass remain the same, regardless of the document orientation (long edge registration or short edge registration).



**NOTE:** The Auto Paper option in Paper Supply is not available when Auto% is selected.

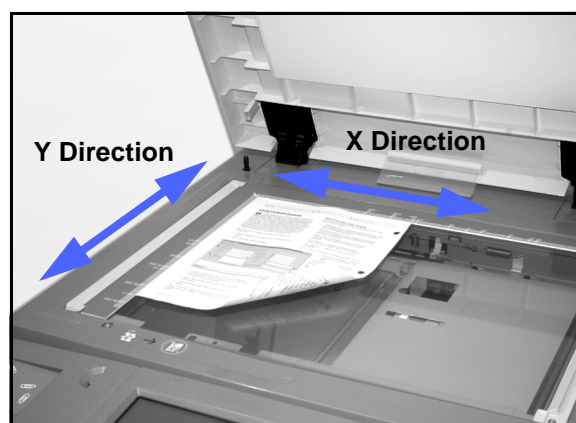


Figure 13: Document Glass directions

4

## Setting basic options

On the Basic Copying Tab, select the desired Reduce/Enlarge option, as in Figure 14.

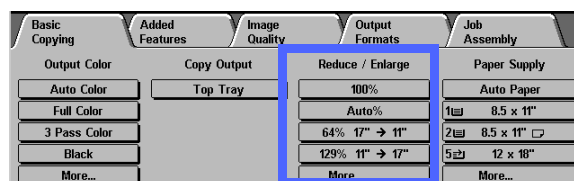


Figure 14: Reduce/Enlarge options on the Basic Copying Tab

## Advanced options for Reduce/Enlarge

Touching the Reduce/Enlarge **More...** button on the Basic Copying tab enables you to set reduction or enlargement according to the following options illustrated in Figure 15:

- Preset %
- Variable %
- Independent X-Y %

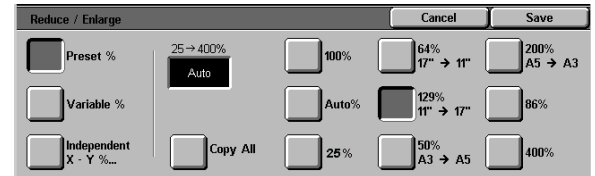


Figure 15: Additional Options for Reduce/Enlarge



## Preset %

When you select the Preset% option, the percentages that display on the Basic Copying tab are supplemented by additional preset percentages. The selected percentage displays in the value box on the Reduce/Enlarge screen.

Select the **Copy All** option to select an automatic reduction. This ensures that the entire original document image is copied to the edges and placed onto the output despite normal edge deletion.

1 2 3...

- 1 Under Reduce/Enlarge on the Basic Copying tab, touch the **More...** button.
- 2 On the Reduce/Enlarge screen, select the **Preset%** option, as illustrated in Figure 16.
- 3 Perform one of the following:
  - Touch a preset percentage.
  - Touch **Copy All** to scan the original document image to its edges, reduce it automatically, and produce output that includes the whole image. Touch **Copy All** again to return to normal copying.
- 4 Touch **Save** to return to the Basic Copying tab.

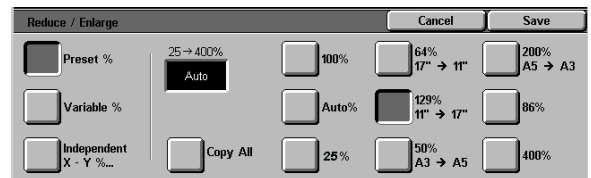
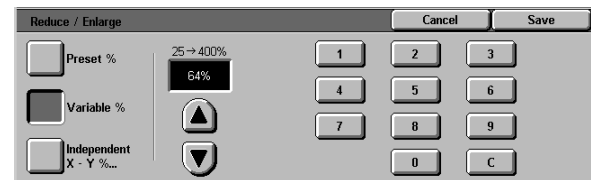


Figure 16: Preset% Reduce/Enlarge

## Variable %

Select the Variable% option to enter the desired percentage for Reduce/Enlarge. Use either the up and down arrows or the number buttons that display on the Touch Screen. Copies may be reduced to 25% or enlarged to 400% (Figure 17).



**Figure 17: Variable% Reduce/Enlarge screen**

Table 1 lists some common percentage conversions for different paper sizes:

Percentage	Paper sizes
64%	11 x 17 inch to 8.5 x 11 inch
129%	8.5 x 11 inch to 11 x 17 inch
70%	A3 to A4
78%	8.5 x 14 inch to 8.5 x 11 inch
141%	A4 to A3
154%	5.5 x 8.5 inch to 8.5 x 11 inch
220%	3.5 x 8.5 inch to 8.5 x 11 inch

**Table 1: Percentage conversions**

**1** Under Reduce/Enlarge on the Basic Copying tab, touch the **More...** button.

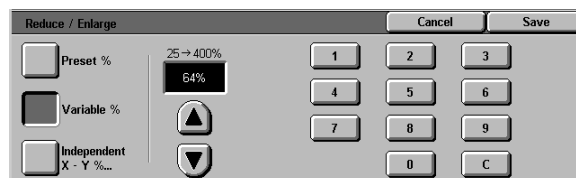
**2** On the Reduce/Enlarge screen, select the **Variable%** option, as in Figure 18.

**3** Perform one of the following:

- Touch the **up arrow** to increase the percentage value in increments of 1.
- Touch the **down arrow** to decrease the percentage value in decrements of 1.
- Use the Numeric Keypad on the Touch Screen to enter a specific percentage, from 25 through 400.

The values increase or decrease in the displayed value box according to your entries.

**4** Touch **Save** to return to the Basic Copying tab.



**Figure 18: Variable% Reduce/Enlarge screen**

## Independent X - Y %

Select the Independent X - Y% option to copy the image at different, independent magnifications from 25% to 400% for the X and Y directions.

For example, you can enlarge the image to 129% in the X direction and reduce it to 64% in the Y direction.

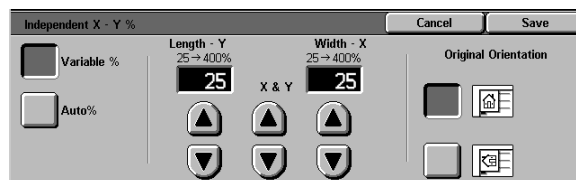
Selecting the Independent X - Y% option on the Reduce/Enlarge screen displays an additional screen. This screen, illustrated in Figure 19, enables you to select variable reduction/enlargement options:

- Variable%
- Auto%

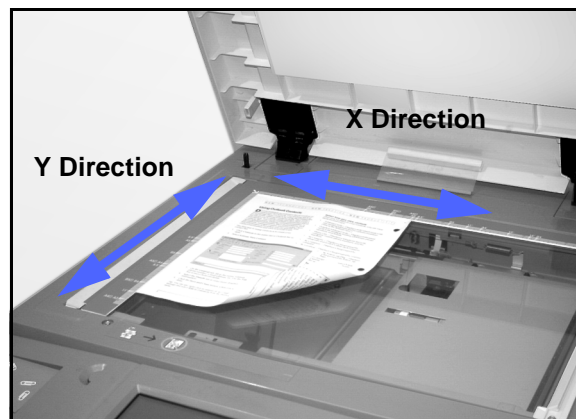
### NOTE:

- The Auto% option is applied only to standard size documents.
- The X and Y directions are always determined in reference to the registration arrow, located around the Document Glass, Figure 20. The X direction is always along the long edge of the Document Glass, and the Y direction is along the short edge of the Document Glass. The X and Y direction references on the Document Glass remain the same, regardless of the document orientation (long edge registration or short edge registration).

All of the Independent X-Y options require you to enter the original orientation that most closely resembles how the document is placed on the Document Glass.



**Figure 19: Independent X - Y% Options for Reduce/Enlarge**



**Figure 20: The X and Y Directions on the Document Glass**

## Independent X - Y %: Variable %

The Variable% option enables you to select different percentages for reduction and enlargement in either the X or Y direction by using Touch Screen arrows. You can also indicate the orientation of the original on the Document Glass.

1 2 3...

- 1 Under Reduce/Enlarge on the Basic Copying tab, touch the **More...** button.
- 2 On the Reduce/Enlarge screen, select the **Independent X - Y%** option to display the Independent X - Y% screen.
- 3 Select the **Variable%** option, as in Figure 21. Perform one of the following:
  - Touch the **up arrow** to increase the percentage value for the Length - Y, X & Y, or Width - X.
  - Touch the **down arrow** to decrease the percentage value for the Length - Y, X & Y, or Width - X.

The values increase or decrease in the displayed value box according to your entries.

- 4 Touch the button next to the icon that most closely resembles the orientation of the original document on the Document Glass.
- 5 Touch **Save** to return to the previous Reduce/Enlarge screen.
- 6 Touch **Save** to return to the Basic Copying tab.

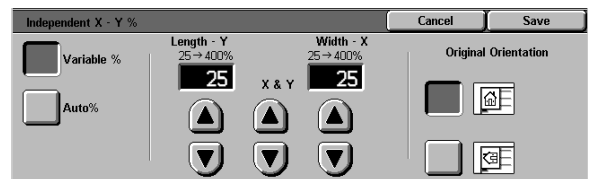


Figure 21: Variable% Reduce/Enlarge screen

## Independent X - Y %: Auto %

The Auto% option enables the copier/printer to calculate the reduction and enlargement automatically based on the original document size and on the output paper size.



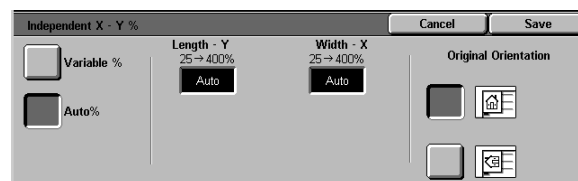
**KEY POINT:** This option is applied only to standard size documents.

1 2 3...

- 1 Under Reduce/Enlarge on the Basic Copying tab, touch the **More...** button.
- 2 On the Reduce/Enlarge screen, select the **Independent X - Y%** option to display the Independent X - Y% screen.
- 3 Touch the **Auto%** option, as in Figure 22.

Notice that the values in both the Length - Y and Width - X boxes display as Auto.

- 4 Touch the button next to the icon that most closely resembles the orientation of the original document on the Document Glass.
- 5 Touch **Save** to return to the previous Reduce/Enlarge screen.
- 6 Touch **Save** to return to the Basic Copying tab.



**Figure 22: Auto% Reduce/Enlarge screen**

## Paper Supply

The Paper Supply option enables you to select output paper size and type.

The Basic Copying tab displays the Auto Paper selection option. This option enables the copier/printer to automatically detect the original document size and select appropriate standard-size paper in Paper Trays 1, 2, 3 or 4.

The Basic Copying tab also displays the contents of three other trays, enabling you to specify your selection for output size, as in Figure 23. The Paper Supply **More...** button enables you to access the Paper Supply screen.

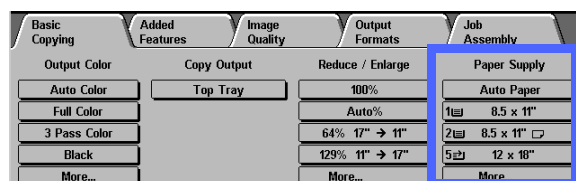


Figure 23: Paper Supply on the Basic Copying Tab

The paper size displayed for Paper Trays 1, 2, 3, and 4 is set when you adjust the paper guides as part of the process of loading paper. The System Administrator sets paper type for the trays in the Tools mode.

You may select both the paper size and paper type on the detail screen when loading paper into Paper Tray 5.



**NOTE:** If you want to change the weight of paper loaded in Paper Tray 2, 3, or 4 to be above 28 lb. stock, contact your System Administrator or use the Tools Mode to change the paper weight for the specified tray before loading paper.

**NOTE:** Contact a Xerox Service Representative to change the default size of Paper Tray 1.

## Auto Tray Switching - Tools Mode

The Auto Tray Switching feature enables the copier/printer to switch to another paper supply when a tray runs out of paper. Auto Tray Switching is activated when Auto Paper Supply is selected and your System Administrator has enabled paper trays 1, 2, 3, and 4.



**NOTE:** The trays must be loaded with the same size paper in the same orientation (long edge feed or short edge feed).

For example, trays 2 and 3 contain the same size paper in the same orientation and the Tray 2 Paper Supply button on the Basic Copying tab of the Touch Screen is selected. If, during a copy job, Tray 2 should run out of paper, the copier/printer will automatically begin drawing paper from Tray 3.

For further information on this feature, see the *System Administration Guide*, chapter 3, “Tools Mode.”



## Selecting the Paper Supply

1 2 3...

- 1 On the Basic Copying Tab, review the displayed paper trays under Paper Supply to see if the desired paper size and type is displayed.
- 2 Perform one of the following:
  - Touch the **Auto Paper** option. The copier/printer selects the appropriate paper automatically.
  - Touch the tray that displays the appropriate paper. The copier/printer will use paper from this tray.
  - Touch the **More...** button to display the Paper Supply screen, Figure 24, with the paper tray options.

Touch the appropriate tray icon. The copier/printer will use paper from this tray.

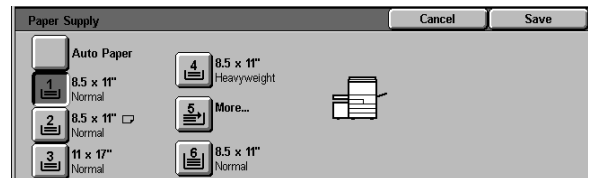


Figure 24: Paper Supply screen



**NOTE:** If you select Paper Tray 5, go to the procedure “Programming the Paper Supply for Tray 5.”

Notice that the copier/printer icon highlights the location of the paper tray that is selected.

- 3 Touch **Save** to display the Basic Copying tab.

## Programming the Paper Supply for Tray 5

You must select the paper size and paper type when loading paper into Tray 5 unless Auto Paper is selected.

1 2 3...

- 1 On the Basic Copying tab under Paper Supply, touch the **More...** button to display the Paper Supply screen, Figure 25.

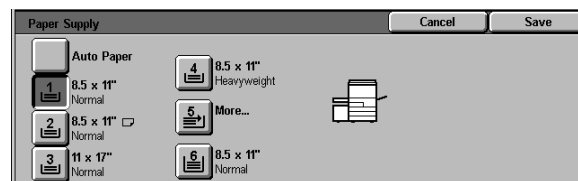


Figure 25: Paper Supply screen

- 2 Touch the **Tray 5** icon to display the Tray 5 screen, Figure 26.

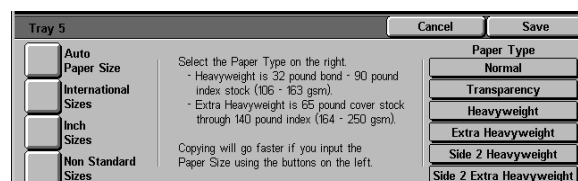


Figure 26: Tray 5 screen

4



**NOTE:** The paper size and type is set back to the defaults each time you select "Clear All" or the machine time out is reached.

3 Perform one of the following to select paper size:

- Touch Auto Paper Size as shown in Figure 27.

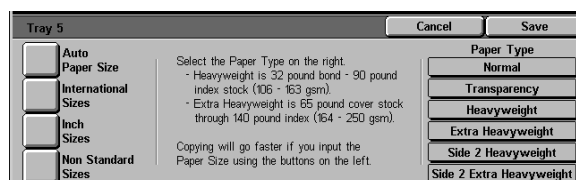


Figure 27: Tray 5 Auto Paper Sizes

- Touch **International** sizes and select one of the preset international sizes, such as A3 or A4, as shown in Figure 28.

**KEY POINT:** You must select **International** sizes to access the Postcard size option.

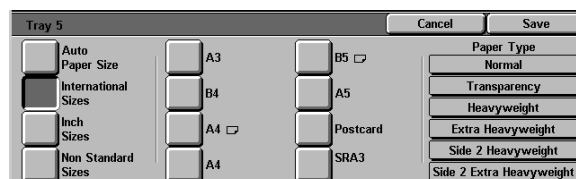


Figure 28: Tray 5 International Paper Sizes

- Touch **Inch Sizes** and select one of the standard US sizes, such as 8.5 x 11 or 11 x 17 inches, as shown in Figure 29.

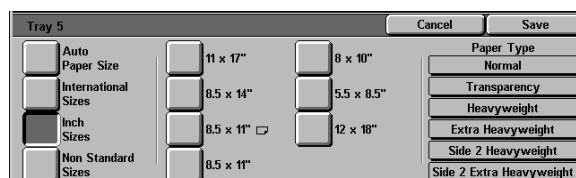


Figure 29: Tray 5 Inch Sizes

- Touch **Non Standard Sizes** and enter the X (width) and Y (length) dimensions by using the arrows, as shown in Figure 30.

Touch the **left** or **right arrows** to decrease or increase the X (width) dimensions. Touch the **down** or **up arrows** to decrease or increase the Y (length) dimensions.

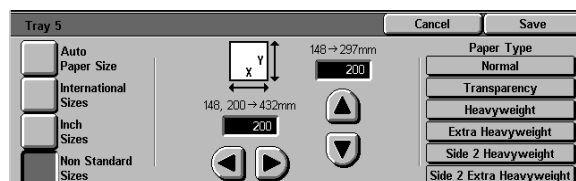


Figure 30: Tray 5 Non Standard Sizes

4 Touch the appropriate Paper Type.

5 Touch **Save** to return to the Paper Supply screen.

6 Touch **Save** to return to the Basic Copying tab.



# 5 Added Features

## Overview

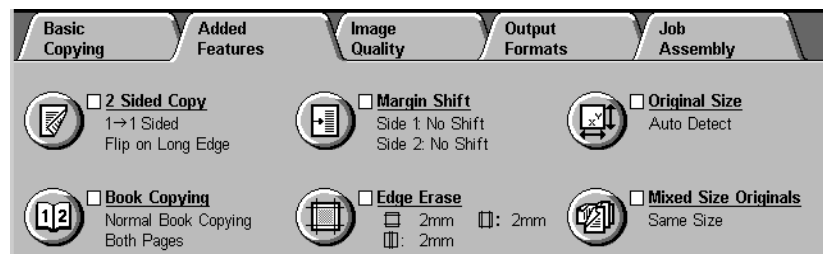


Figure 1: Added Features Tab

Use the Added Features tab (Figure 1) to select options for the features described below.

### 2 Sided Copying

The 2 Sided Copying feature specifies 1 to 1, 1 to 2, 2 to 2, and 2 to 1 copying.

### Book Copying

The Book Copying feature splits the image of an open book original into pages to enable copying of each bound page.

## *Margin Shift*

The Margin Shift feature enables you to center a document image, shift the image to one edge slightly, or move the image to a specified edge of the output copy.



**NOTE:** The Auto Center feature is included in the Margin Shift options. For more information on the **Auto Center** feature, see page 5-18.

## *Edge Erase*

The Edge Erase feature allows you to erase any undesired images around the border of a document. Edge Erase may begin at the image and go out to the edge of the original document. Edge Erase may also be applied to any center streaks caused by a gap between the spine of a bound document and the Document Glass.

## *Original Size*

The Original Size feature enables you to specify the size of the original document to be copied. You may select a standard international, standard US paper size, or a non-standard size. The Auto Detected feature enables the copier/printer to identify the size of the original automatically.

## *Mixed Size Originals*

When using the Duplex Automatic Document Feeder (DADF), you can copy jobs with mixed size originals. When the Mixed Size Originals feature and Auto paper tray are selected, the copier/printer automatically identifies the document size and selects the correct paper supply.

### **KEY POINT:**



- When you select a feature option other than the default, save your selection and then return to the tab, a check mark displays near the feature name, and the selected value or option displays under the feature name.
- Features and options discussed in this chapter follow the factory default settings. You may see different settings, depending on the options your System Administrator has selected in Tools mode.

## 2 Sided Copying

Use the 2 Sided Copying feature on the Added Features tab to select 1-sided or 2-sided copy, with options for 2-sided output.



**KEY POINT:** The 2 Sided Copying feature is available for output of 16 lb. through 28 lb. (64 through 105 gsm) paper or for standard sizes smaller than 12 x 18 inches (A3). Use the procedure, “Manual 2 Sided Copying,” found later in this chapter for paper outside these limits.

### Using the 2 Sided Copying feature

1 2 3...

- 1 On the Added Features tab, locate and touch the **2 Sided Copy** feature, as in Figure 2.

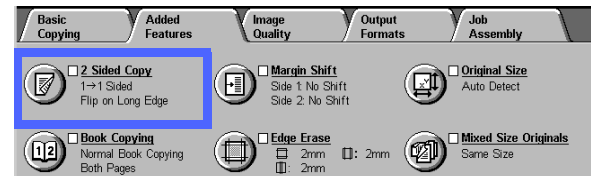


Figure 2: 2 Sided Copying feature on the Basic Copying tab

- 2 If you are using a DADF, you may choose one of the following features (Figure 3):
  - **1 to 1 Sided** button for default 1-sided copies
  - **1 to 2 Sided** button for 2-sided copies from 1-sided input, as illustrated in Figure 4.
    - Touch **Flip on Long Edge** for 2-sided, head-to-head output, as for books.
    - Touch **Flip on Short Edge** for 2-sided, head-to-toe output, as for calendars.

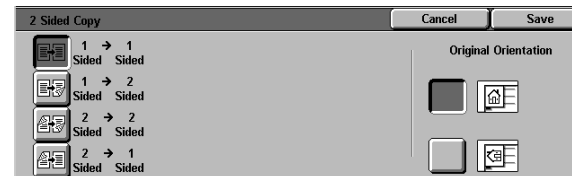


Figure 3: 2 Sided Copying options

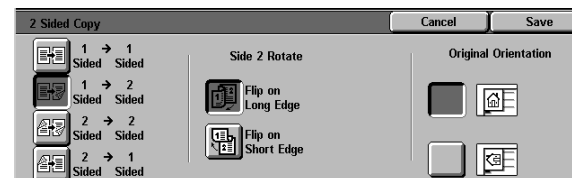


Figure 4: 1 to 2 Sided Copying option



- **2 to 2 Sided** button for 2-sided copies from 2-sided input.

Select the **Side 2 Rotate** button to display the Side 2 Rotate screen, illustrated in Figure 5. Touch the appropriate description for input documents and desired output:

- Selecting **Flip on Long Edge** or **Flip on Short Edge** for originals and copies will give you 2-sided, head-to-head output, as in books.
- Selecting **Flip on Long Edge** for originals and **Flip on Short Edge** for copies, or vice versa, will give you 2-sided, head-to-toe output, as for calendars.
- **2 to 1 Sided** button for 1-sided copies from 2-sided originals, as illustrated in Figure 6.
  - Touch **Flip on Long Edge** if your original documents are 2-sided, head-to-head.
  - Touch **Flip on Short Edge** if your original documents are 2-sided, head-to-toe output, as for calendars.

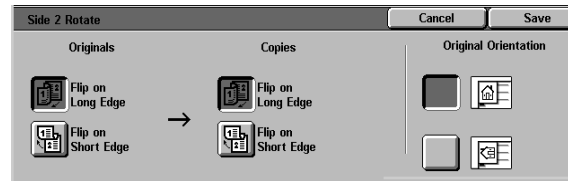


Figure 5: Side 2 Rotate screen

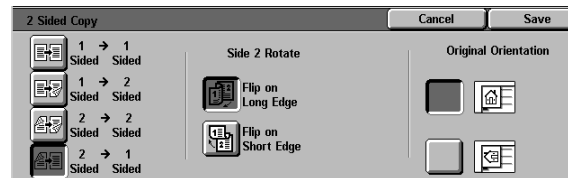


Figure 6: 2 to 1 Sided Copying option



**NOTE:** The **2 to 2 Sided** feature and the **2 to 1 Sided** feature can only be used when copying from the DADF. You must follow the procedure for Manual 2 sided copying (on page 5-6) if you want to use the Document Glass for **2 to 2 Sided** copying. For **2 to 1 Sided** copying on the Document Glass, select **1 to 1 Sided** and copy each side of the original individually.

If you are using the Document Glass, you may select one of the following:

- Touch the **1 Sided** button for default one-sided copies.
- Touch the **1 to 2 Sided** button to display the 2 Sided Copy screen. Under Side 2 Rotate, perform one of the following:
  - Touch **Flip on Long Edge** for 2-sided, head-to-head output, as for books.
  - Touch **Flip on Short Edge** for 2-sided, head-to-toe output, as for calendars.

**3** Touch the button next to the icon that most closely resembles the Original Orientation for the document on the Document Glass.

**4** Touch **Save** to return to the Added Features tab.

## Manual 2 Sided copying

To create 2-sided copy for output stock that varies from the requirements for the automatic 2 Sided Copying feature, you must perform a manual feed from Paper Tray 5.

If making 2-sided copies using Tray 5, remove any extra paper from the tray prior to starting the 2-sided copy job. Ensure that extra paper is removed from the tray prior to loading the side 1 copies into the tray.



**KEY POINT:** In the following procedure, you may want to make one extra copy in step 1 to use as a sample for checking image orientation. Change quantity to 1 before performing step 4. Once you are satisfied with the orientation, change the quantity again to complete the job.

1 2 3...

**1** Copy the first side using the **1 Sided** option.

**2** Select **Tray 5** as the Paper Supply option on the Basic Copying tab.



**KEY POINT:** Be sure to remove extra paper from Tray 5 before loading copies for side 2 copying.

5

**3** Position your copies in Paper Tray 5 with the image side down.

Ensure the top of the image is oriented in the same direction as the top of the original document.

**4** Copy as a 1 Sided Copy.

## Book Copying

The Book Copying feature (Figure 7) enables you to copy bound documents such as books, magazines or journals, notebooks, glued forms, or stapled sets.

When this feature is selected, each page is copied onto a separate sheet of paper.

The Book Copying feature offers several options, illustrated in Figure 8:

- Book Copying Off
- Normal Book Copying
- Right to Left Format
- Calendar Format

The pages of the book may be any size up to 8.5 x 11 inches (A4) or 11 x 17 inches (A3) maximum for both pages.

The Binding Erase option allows you to remove the shadow caused by the center binding of bound documents when they are copied. The value displayed or entered for this option corresponds to the value displayed in the Variable Erase/Center Area Erase option.



**KEY POINT:** Place the bound document face down in the upper left corner of the Document Glass, as illustrated in Figure 9.

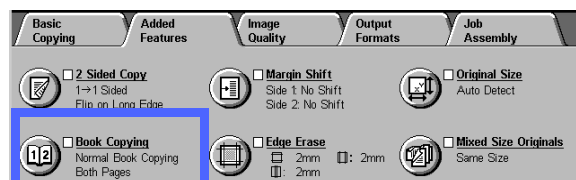


Figure 7: Book Copying feature



Figure 8: Book Copying screen with Normal Book Copying selected

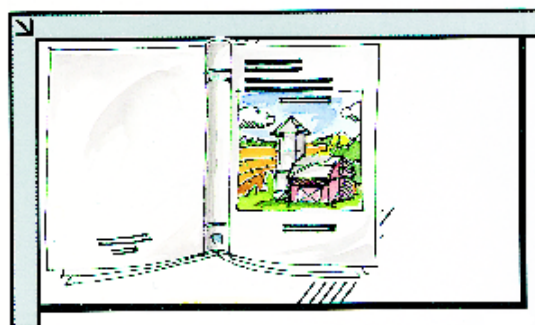


Figure 9: Book copy position



**NOTE:** Keep the following notes in mind when using Book Copying:

- Select the Auto% option of the Reduce/Enlarge feature on the Basic Copying tab to enlarge the pages of a book so they fit onto the selected long edge paper.
- Do not use Book Copying with the following features:
  - Multiple-Up
  - Repeat Image
  - Poster Mode



**CAUTION:** Do not force the DADF or Document Glass Cover down onto the book. Forcing the DADF or Document Glass Cover down could damage the Document Glass. Instead, leave the DADF or Document Glass Cover open and apply a slight pressure with your hand to the book to keep it flat against the Document Glass.

After you press Start, the copier/printer completes a prescan to determine the center location of the book.

## Book Copying Off

The Book Copying Off option indicates no special scanning is required. It is the default setting.

1 2 3...

- 1 Touch the **Book Copying** button on the Added Features tab to display the Book Copying screen.
- 2 Touch the **Book Copying Off** button, as in Figure 10.
- 3 Touch **Save** to return to the Added Features tab.

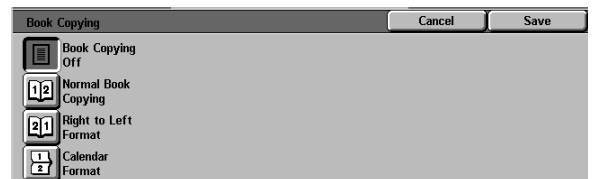


Figure 10: Book Copying screen with the Book Copying Off option selected

## Normal Book Copying

Use the Normal Book Copying option to copy the pages of a left-bound book in the order 1 to N (the last page copied).

When you select the Normal Book Copying option, the copier/printer scans and copies the left page of a bound document, then scans and copies the right page. Both are then sent to the selected destination.

**NOTE:** If the selected quantity is more than one, the copier/printer completes all the copies of the image on the right side of the glass, then all the copies of the image on the left side.

When the output is 2 sided and you have selected the Normal Book Copying option, the image from the left page is scanned and copied onto Side 1, then the image from the right page is scanned and copied onto Side 2.



1 2 3...

1 Touch the **Book Copying** button on the Added Features tab to display the Book Copying screen.

2 Touch the **Normal Book Copying** button, as in Figure 11.

3 Perform one of the following:

- To scan and copy both pages, touch the **Both Pages** button.
- To scan and copy the left page without the right page, touch the **Left Page Only** button.
- To scan and copy the right page without the left page, touch the **Right Page Only** button.

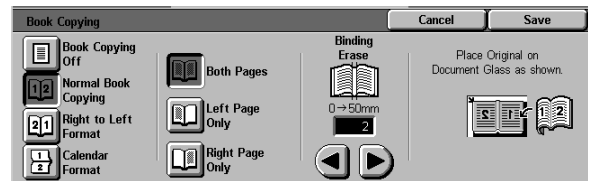


Figure 11: Book Copying screen with Normal Book Copying selected

- 4** If necessary, use the arrows under the Binding Erase icon to delete the center shadow from the output. Touch the right arrow to increase the amount of erasure in the center of the output copy. Touch the left arrow to decrease the amount of erasure in the center of the output copy. Binding Erase values range from 0 to 50 mm.

Notice that the values in the box increase or decrease according to your selection.

- 5** Use the diagram on the screen when you place the original onto the Document Glass to ensure expected results.

The bound document should be placed face down with the upper outside corner of the right page in the upper left corner of the Document Glass.

- 6** Touch **Save** to return to the Added Features tab.

## Right to Left Format

Use this option to copy the pages of a right-bound book in the order 1 to N (the last page copied).

When you select the **Right to Left Format** button, the copier/printer scans and copies the right page of a bound document, then scans and copies the left page. Both are then sent to the selected destination.

**NOTE:** If the selected quantity is more than one, the copier/printer completes all the copies of the image on the right side of the glass, then all the copies of the image on the left side.

When the output is 2 sided and you have selected the Right to Left Format option, the image from the right page is scanned and copied onto Side 1, then the image from the left page is scanned and copied onto Side 2.



1 2 3...

- 1 Touch the **Book Copying** button on the Added Features tab to display the Book Copying screen.
- 2 Touch the **Right to Left Format** button, as in Figure 12.
- 3 Perform one of the following:

- To scan and copy both pages, touch the **Both Pages** button.
- To scan and copy the left page without the right page, touch the **Left Page Only** button.
- To scan and copy the right page without the left page, touch the **Right Page Only** button.

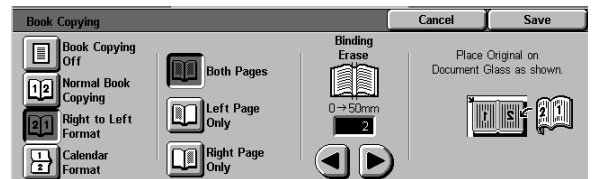


Figure 12: Book Copying screen with Right to Left Format button selected



- 4** If necessary, use the arrows under the **Binding Erase** icon to delete the center shadow from the output. Touch the right arrow to increase the amount of erasure in the center of the output copy. Touch the left arrow to decrease the amount of erasure in the center of the output copy. Binding Erase values range from 0 to 50 mm.

Notice that the values in the box increase or decrease according to your selection.

- 5** Use the diagram on the screen when you place the original onto the Document Glass to ensure expected results.

The bound document should be placed face down with the upper outside corner of the right page in the upper left corner of the Document Glass.

- 6** Touch **Save** to return to the Added Features tab.

## Calendar Format

Use the Calendar Format option when the document is bound at the top, as a wall calendar.

When you select the Calendar Format button, the copier/printer scans and copies the top page of a bound document, then scans and copies the bottom page. Both are then sent to the selected destination.



**NOTE:** If the selected quantity is more than one, the copier/printer completes all the copies of the image on the right side of the glass, then all the copies of the image on the left side.

When the output is 2 sided and you have selected the Calendar Format option, the image from the top page is scanned and copied onto Side 1, and the image from the bottom page is scanned and copied onto Side 2.



**KEY POINT:** If you want the bottom page to scan and print first, simply change the orientation of the original on the Document Glass by turning it 180°.

1 2 3...

- 1 Touch the **Book Copying** button on the Added Features tab to display the Book Copying screen.
- 2 Touch the **Calendar Format** button as in Figure 13.

5

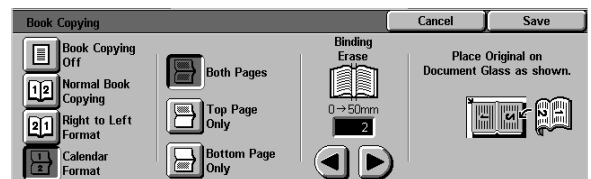


Figure 13: Book Copying screen with Calendar Format selected

- 3** Perform one of the following:
- To scan and copy both pages, touch the **Both Pages** button.
  - To scan and copy the top page without the bottom page, touch the **Top Page Only** button.
  - To scan and copy the bottom page without the top page, touch the **Bottom Page Only** button.
- 4** If necessary, use the arrows under the Binding Erase icon to delete the center shadow from the output. Touch the right arrow to increase the amount of erasure in the center of the output copy. Touch the left arrow to decrease the amount of erasure in the center of the output copy. Binding Erase values range from 0 to 50 mm.
- Notice that the values in the box increase or decrease according to your selection.
- 5** Use the diagram on the screen when you place the original onto the Document Glass to ensure expected results.
- The bound document should be placed face down with the upper left corner of the top page in the upper left corner of the Document Glass.
- 6** Touch **Save** to return to the Added Features tab.

## Margin Shift

The Margin Shift feature (Figure 14) allows you to change the placement of an image on the output page.

You can move images to the center of a page or move them to a specific corner or edge. In addition, you can specify variable shifts toward any margin.

This section describes the following options illustrated in Figure 15:

- No Shift
- Auto Center
- Corner Shift
- Variable Shift

**NOTE:** You can select only one shift option at any time for each side.

After you have selected a Margin Shift option, the Added Features screen displays a check in the feature check box beside the set values.

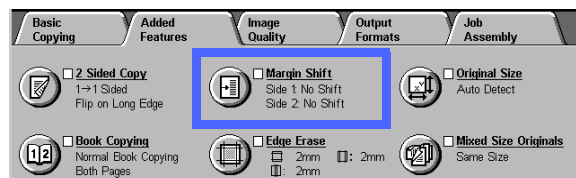


Figure 14: Margin Shift feature

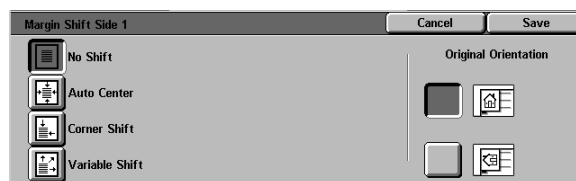


Figure 15: Margin Shift screen

## No Shift

If No Shift is selected, the copier/printer assumes that the original document is registered in the upper left corner of the Document Glass. If the document is offset from this registration point, the image on the output copy will be offset by the same amount.

1 2 3...

- 1 Touch the **Margin Shift** button on the Added Features tab to display the Margin Shift screen, Figure 16.
- 2 Touch either the **Side 1** or **Side 2** button to display the Margin Shift screen for the desired side.

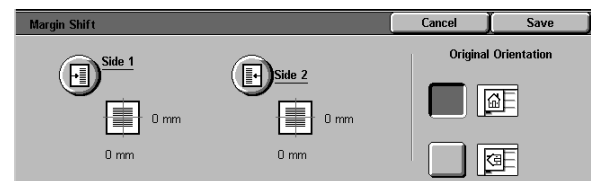


Figure 16: Margin Shift screen

- 3 Touch the **No Shift** button, as in Figure 17.
- 4 Touch **Save** to return to the Margin Shift screen.
- 5 If desired, repeat steps 2-4 to adjust the Margin Shift for the other side.
- 6 Touch the button next to the icon that most closely resembles the Original Orientation for the document on the Document Glass.
- 7 Touch **Save** to return to the Added Features tab.

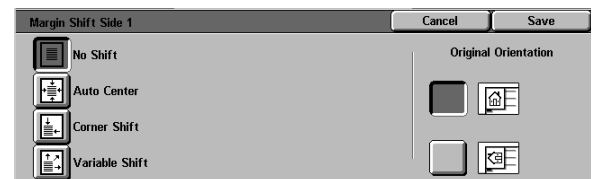


Figure 17: Margin Shift screen with No Shift selected

## Auto Center

Selecting the Auto Center option centers the original image on the output page, as illustrated in Figure 18.



**KEY POINT:** The Auto Center option is not available for 12 x 18 inch or SRA3 originals that are being copied without reduction.

The Auto Center option is intended for copying original documents that are smaller than the copy paper. You can also use this feature when you select a reduction value for original documents that are larger than the copy paper selected.



**NOTE:** In some cases, the original image center will be shifted slightly on the output copy.

The orientation of the output image is determined by the placement of the document on the Document Glass and the orientation of the selected paper supply.

The copier/printer completes a prescan to determine the size of the document.

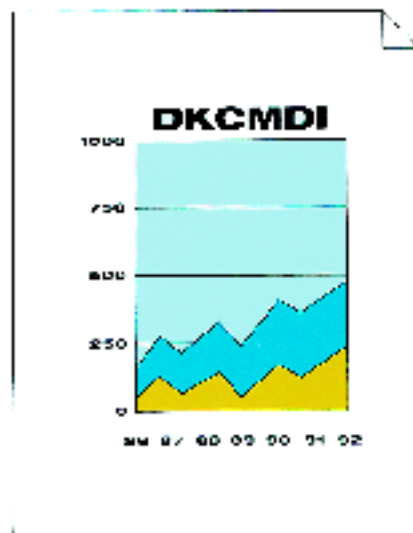
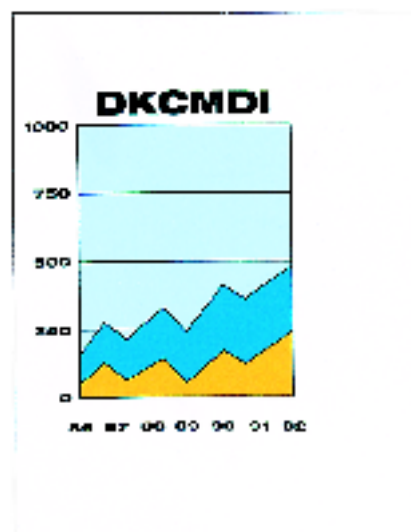


Figure 18: Example of Auto Center

- 1 Touch the **Margin Shift** button on the Added Features tab to display the Margin Shift screen, as illustrated in Figure 19.
- 2 Touch either the **Side 1** or **Side 2** button to display the Margin Shift screen for the desired side.

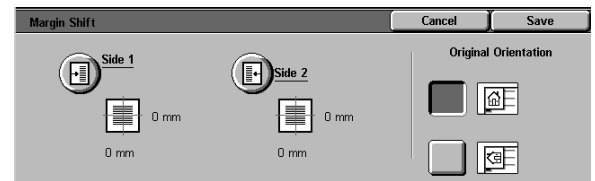


Figure 19: Margin Shift screen

- 3 Touch the **Auto Center** button to display the Auto Center detail screen, as illustrated in Figure 20.
- 4 Touch **Save** to return to the Margin Shift screen.
- 5 If desired, repeat steps 2-4 for the other side.
- 6 Touch the button next to the icon that most closely resembles the Original Orientation for the document on the Document Glass.
- 7 Touch **Save** to return to the Added Features tab.

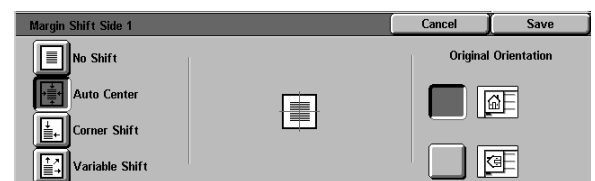


Figure 20: Margin Shift screen with Auto Center selected

## Corner Shift

Select the Corner Shift feature to move the image to a specified edge or corner on the output copy for Side 1 or 2, as illustrated in Figure 21.

This feature works in three ways:

- To shift an image on small documents to a specified corner on the output
- To be used with the Reduction feature to designate a position where the reduced image is to appear on the output
- To be used with the Enlarge feature to designate a position where the enlarged image is to appear on the output



**NOTE:** Corner Shift may not be evident on your output if you copy your original document at 100%.

The orientation of the image on the copies is determined by the placement of the document on the Document Glass and by the orientation of the selected paper supply.

The copier/printer completes a prescan to determine the size of the document.

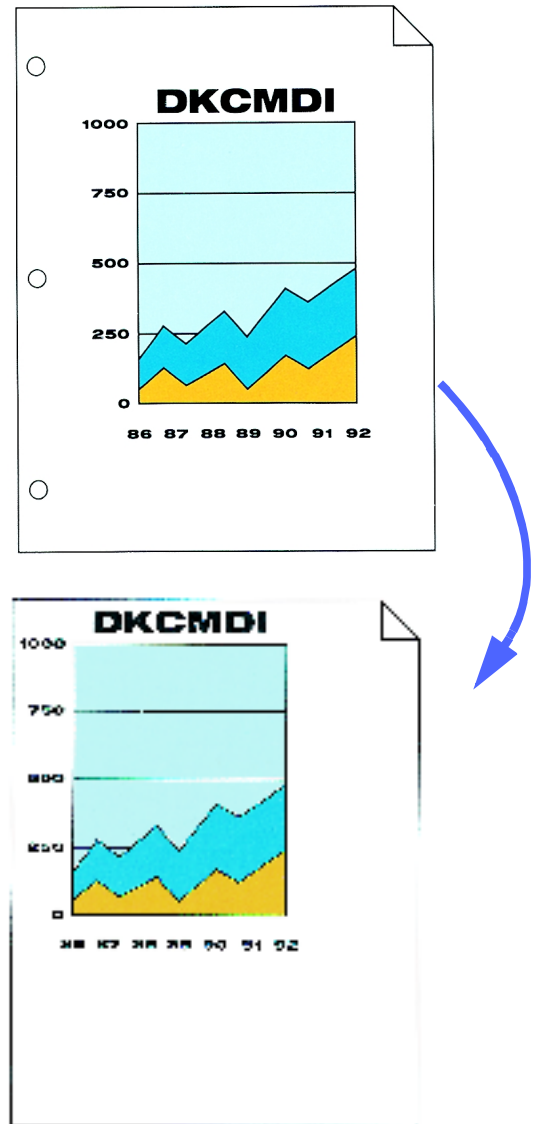


Figure 21: Example of Corner Shift



- 1 Touch the **Margin Shift** button on the Added Features tab to display the Margin Shift screen as illustrated in Figure 22.
- 2 Touch either the **Side 1** or **Side 2** button to display the Margin Shift screen for the desired side.

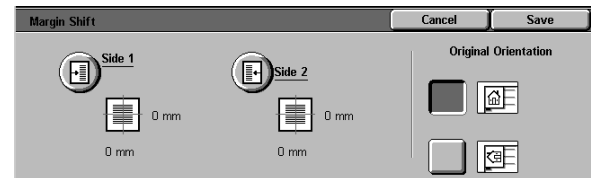


Figure 22: Margin Shift screen

- 3 Touch the **Corner Shift** button to display the Corner Shift detail screen, as illustrated in Figure 23.
- 4 Touch the arrow button that illustrates the desired location of the image on the output copy.
- 5 Touch **Save** to return to the Margin Shift screen.
- 6 If desired, repeat steps 2-5 for the other side.
- 7 Touch the button next to the icon that most closely resembles the Original Orientation for the document on the Document Glass.
- 8 Touch **Save** to return to the Added Features tab.

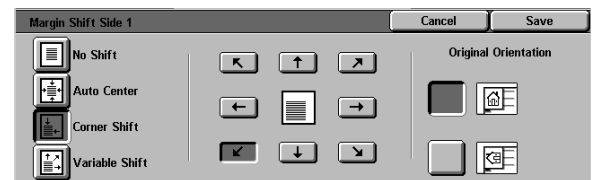


Figure 23: Margin Shift screen with Corner Shift selected

## Variable Shift

The Variable Shift option enables you to adjust the horizontal or vertical orientation of the output image, as illustrated in Figure 24. You can shift the image up, down, right, or left by means of the variable arrow buttons.



**NOTE:** Do not use Variable Shift if you want 100% of your original document to be copied.

The orientation of the image on the copies is determined by the placement of the document on the Document Glass and by the orientation of the selected paper supply.

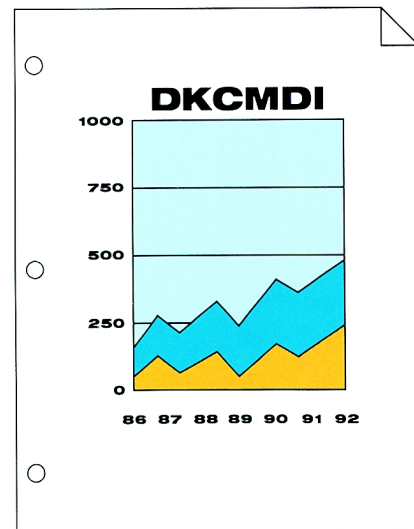
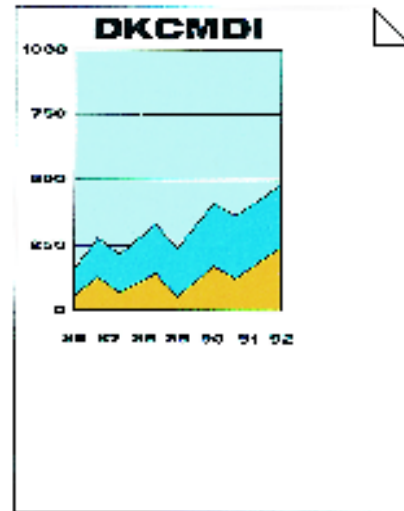


Figure 24: Example of Variable Shift

- 1 Touch the **Margin Shift** button on the Added Features tab to display the Margin Shift screen, as illustrated in Figure 25.
- 2 Touch either the **Side 1** or **Side 2** button to display the Margin Shift screen for the desired side.
- 3 Touch the **Variable Shift** button to display the Variable Shift detail screen, as illustrated in Figure 26.
- 4 Perform one or both of the following:
  - Under the **Left & Right** icon, touch the **right arrow** to shift the image toward the right edge. Touch the **left arrow** to shift the image toward the left edge. Continue to touch the appropriate arrow until you have specified the desired amount of shift from 0 to 432 mm.
  - Under the **Up & Down** icon, touch the **up arrow** to shift the image toward the top edge. Touch the **down arrow** to shift the image toward the bottom edge. Continue to touch the appropriate arrow until you have specified the desired amount of shift from 0 to 432 mm.

Notice that the values in the box increase or decrease according to your selection and that the icon illustrates the direction of the shift.

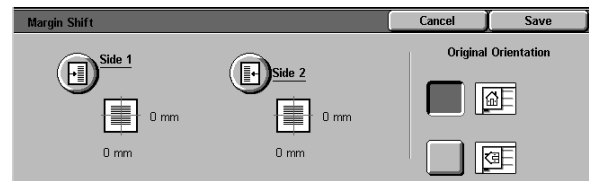


Figure 25: Margin Shift screen



Figure 26: Margin Shift screen with Variable Shift selected

- 5 Touch **Save** to return to the Margin Shift screen.
- 6 If desired, repeat steps 2-5 for the other side.
- 7 Touch the button next to the icon that most closely resembles the Original Orientation for the document on the Document Glass.
- 8 Touch **Save** to return to the Added Features tab.

## Edge Erase

The Edge Erase feature (Figure 27) enables you to eliminate unwanted marks near the edges of the original from the output copy.

The Document Centre ColorSeries 50 is set up with a factory default of 2 mm for the Edge Erase feature. Although your System Administrator can increase this default, the 2 mm factory setting can not be eliminated.

For example, if the default Edge Erase set by your System Administrator is 3 mm, all copies that do not specify a different edge erase will reflect the 3 mm default setting. All copies specifying an edge erase of 2 mm and above will reflect the specified edge erase. However, all copies that specify an edge erase **below** 2 mm will automatically reflect the 2 mm factory default setting.

The Edge Erase feature offers two options:

- No Erase
- Variable Erase

In order for the Edge Erase feature to function correctly, the original must be registered on the Document Glass against the registration arrow.

**NOTE:** When used with the Reduce/Enlarge feature, edge erase settings will vary according to the reduction/enlargement ratio set. For example, at 30 mm edge erase is reflected as a 15 mm edge erase when combined with a 50% image reduction.

**NOTE:** When making 2-sided copies, edge erase is applied to both sides of the output.

After you select an Edge Erase option, the Added Features screen displays a check in the feature check box beside the set values.

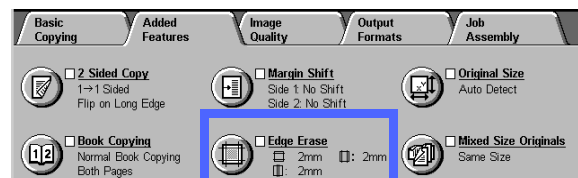


Figure 27: Edge Erase feature

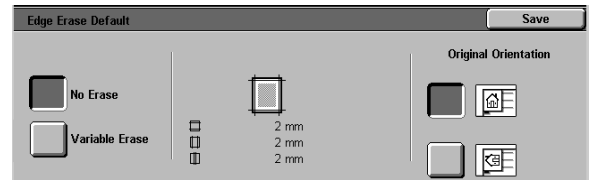
## No Erase

The Edge Erase default setting is No Erase. When the No Erase button is selected, output will reflect the factory default edge erase of 2 mm or the default edge erase set by your System Administrator.

A 2mm edge erase is normally sufficient to remove shadows from the copy edges.

1 2 3...

- 1 Touch the **Edge Erase** button on the Added Features tab to display the Edge Erase screen.
- 2 Touch the **No Erase** button, as illustrated in Figure 28.
- 3 Touch the button next to the icon that most closely resembles the Original Orientation for the document on the Document Glass.
- 4 Touch **Save** to return to the Added Features tab.



**Figure 28: No Erase option on the Edge Erase screen**

## Variable Erase for edges

The Variable Erase option, illustrated in Figure 29, enables the copier/printer to vary the amount of erasure from 0 to 50 mm in 1 mm increments. The same amount of erasure is applied to both top and bottom edges or right and left edges of the document.

**KEY POINT:** If your document contains an image area that extends to the edges of the document, and you do not want any of it to be deleted, use the Variable Erase arrow buttons to set the erase value to zero. Select the Margin Shift feature, Auto Center option, from the Added Features tab. Reduce the image until the entire area is captured. If you do not want to reduce the image, copy it to larger paper. For example, copy an 8.5 x 11 in. image onto 11 x 17 in. paper with the options described above selected.

The Center Area Erase option allows you to remove the shadow caused by the center binding of bound documents when they are copied. The factory default setting for Center Erase is 0 (zero).

Select the up arrow to increase the amount of erasure or the down arrow to decrease the amount of erasure.

**NOTE:** Keep the following notes in mind when using Center Area Erase:

- Do not use Center Area Erase with the following features:
  - Multiple-Up
  - Repeat Image
  - Poster Mode
- The Center Area Erase setting in the Variable Erase feature is the same as the center erase setting of Book Copying.
- For some original image sizes, Center Area Erase does not occur exactly in the center of the output image.

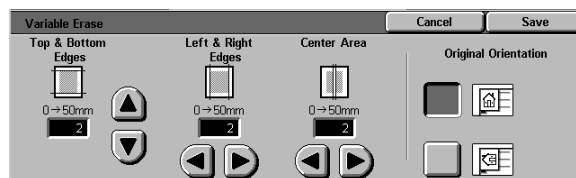


Figure 29: Variable Erase screen

- 1 Touch the **Edge Erase** button on the Added Features tab to display the Edge Erase screen.
- 2 Touch the **Variable Erase** button to display the Variable Erase screen, as illustrated in Figure 30.
- 3 Perform one of the following:
  - Under the **Top & Bottom Edges** button, touch the **up arrow** to increase the amount of erasure at the top and bottom edges. Touch the **down arrow** to decrease the amount of erasure at the top and bottom edges.
  - Under the **Left & Right Edges** button, touch the **up arrow** to increase the amount of erasure at the left and right edges. Touch the **down arrow** to decrease the amount of erasure at the left and right edges.
  - Under the **Center Area** button, touch the **up arrow** to increase the amount of erasure in the center of the original document. Touch the **down arrow** to decrease the amount of erasure in the center of the document.

Notice that the values in the boxes increase or decrease according to your selections.

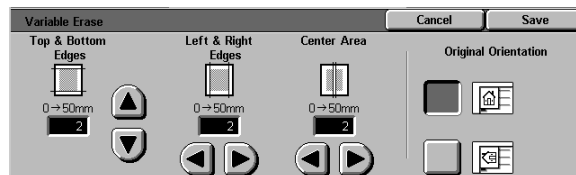


Figure 30: Variable Erase screen

- 4 Touch the button next to the icon that most closely resembles the Original Orientation for the document on the Document Glass.
- 5 Touch **Save** to return to the Edge Erase screen, which now displays the new edge erase values.
- 6 Touch **Save** to return to the Added Features tab, which now displays the new edge erase values.



## Original Size

Use the Original Size feature (Figure 31) to specify the original document size as one of a number of standard international or US sizes. You can also manually specify the dimensions of non-standard input or you can select the Auto Detect option to enable size identification by the copier/printer.



**NOTE:** Avoid putting items (pens, pieces of paper, etc.) that you do not wish copied onto the Document Glass. If you select Auto Detect, the Document Centre ColorSeries 50 performs a prescan and assumes the original document and anything that is on the Document Glass (pens, pieces of paper, etc.) are to be copied. This may result in undesirable copy output.

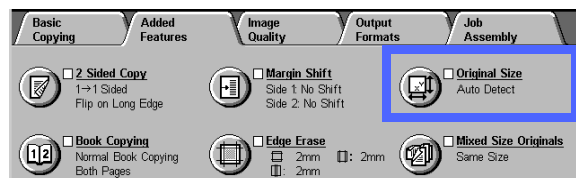


Figure 31: Original Size feature

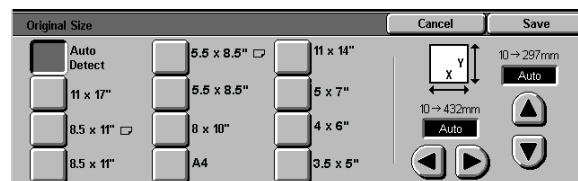
**1** At the Added Features tab, select the **Original Size** button to display the Original Size screen, as illustrated in Figure 32.

**2** Perform one of the following:

- Touch the **Auto Detect** option (default) to have the copier/printer identify the size of the original document.
- Touch the appropriate size for the original document.
- For non-standard sizes, enter the width (X) and length (Y) dimensions of your original document.
  - For the X dimension, touch the **right arrow** to increase the value or the **left arrow** to decrease the value.
  - For the Y dimension, touch the **up arrow** to increase the value or the **down arrow** to decrease the value.

Notice that the values in the boxes increase or decrease according to your selections.

**3** Touch **Save** to return to the Added Features tab.



**Figure 32: Original Size screen**

**Table 1: Original Size Presets**

Inches			International		
11 x 17	5.5 x 8.5 LEF	4 x 6	A3	B4	B6
8.5 x 11 LEF	8 x 10	3.5 x 5	A4 Land- scape	A4	A6
8.5 x 11 SEF	11 x 14		B5 Land- scape	B5	
5.5 x 8.5 SEF	5 x 7		A5 Land- scape	A5	

## Mixed Size originals

When a Duplex Automatic Document Feeder (DADF) is present, the Mixed Size Originals feature (Figure 33) is displayed on the Added Features tab and documents of mixed sizes can be placed into the DADF for copying. When the Mixed Size originals feature and Auto paper tray are selected, the copier/printer automatically identifies the document size and selects the appropriate paper tray.

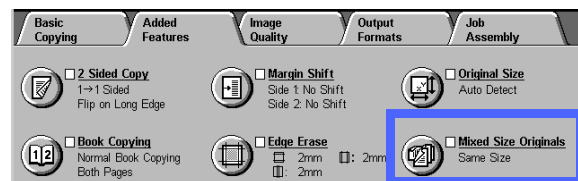


Figure 33: Mixed Size Originals feature

1 2 3...

1 In the Added Features tab, select the **Mixed Size Originals** button. Selecting this button automatically turns the **Mixed Size Originals** feature on (Figure 34).

2 Under the Mixed Size Originals screen, perform one of the following:

- Touch the **Same Size** option when the original documents are all the same size, as illustrated in Figure 35.
- Keep the **Mixed Size Originals** option selected if the original documents are different sizes (Figure 34).

3 Touch the button next to the icon that most closely resembles the Original Orientation for the document.

4 Follow the instructions on the screen and load mixed size originals with one edge of every sheet aligned evenly against the back guide to avoid misfeeds.

5 Touch **Save** to return to the Added Features tab.

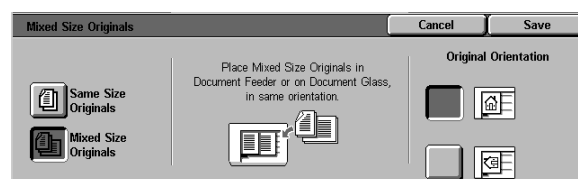


Figure 34: Mixed Size Originals screen with Mixed Size option selected

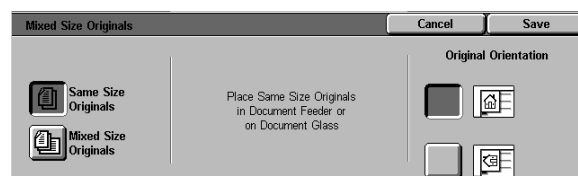


Figure 35: Mixed Size Originals screen with Same Size option selected

5

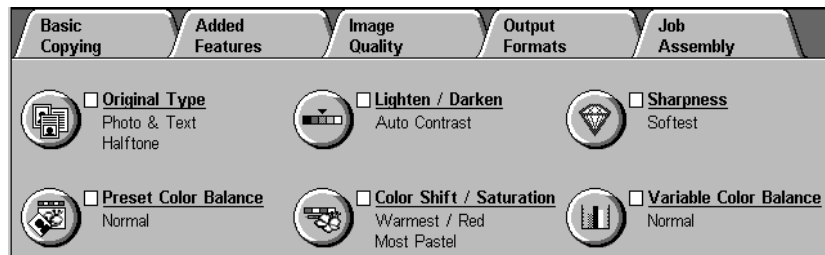


**NOTE:** You may use as many different sized originals for Mixed Sized Originals as you wish providing you are using standard size paper and have the appropriate paper in the Paper Trays.



## 6 Image Quality

### Overview



**Figure 1: Image Quality Tab**

The Image Quality features, listed on the Image Quality tab (Figure 1), allow you to optimize the output copy quality. You begin your adjustment by indicating the type of original document you have. Then you change settings for specific image quality factors such as lightness and darkness, sharpness, or color.

Examples of the images printed with default settings are provided on the following pages. Detailed information about the following Image Quality features is also provided:

### Original Type

The selection of the correct Original Type (for example, Photo & Text, Text, Photo, Graphics & Maps) ensures that the Document Centre ColorSeries 50 uses its fullest scanning capability for that document type.

## *Preset Color Balance*

The Preset Color Balance option automatically adjusts Image Quality settings to produce output with balanced image tones.

## *Lighten/Darken*

The adjustment of lightness or darkness will sometimes improve the output quality.

## *Color Shift/Saturation*

This feature allows you to shift all of the copy colors toward the adjacent hue, as well as adjust the overall richness of color on the output copy.

## *Sharpness*

The Sharpness feature allows you to adjust the amount of definition on the output.

## *Variable Color Balance*

The Variable Color Balance feature enables you to set the balance of Yellow, Magenta, Cyan, and Black by the varying degrees of density for each color.

When you make changes to the Image Quality features, remember that outside factors, such as the quality of the original document, lighting, etc. also affect output quality.

**NOTE:** Selections made in the Image Quality tab are applied to the entire output copy.



6



**KEY POINT:** When you select an option other than the default for a feature and then save your selection and return to the tab, a check mark displays near the feature name and the selected value or option displays under the feature name.

## Original Type

The Original Type feature (Figure 2) enables you to define the kind of original document you wish to copy. The copier/printer automatically makes fine adjustments to optimize the copy sharpness based on document type.

There are a number of document type choices available, as illustrated in Figure 3:

- Photo & Text
- Text
- Photo
- Graphics & Maps

For the best copy quality, always select the Original Type that best describes your document.



**NOTE:** The System Administrator selects the default Original Type. The Original Type button on the Image Quality tab displays the currently selected Original Type as the default.

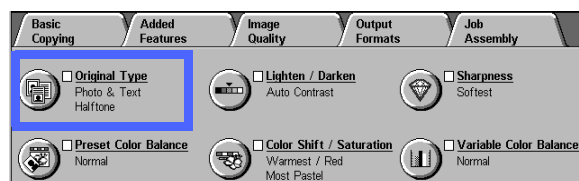


Figure 2: Original Type feature



Figure 3: Original Type screen

## Photo & Text

Photo & Text is the best document type selection for original documents that contain pictures and printed text (Figure 4), as you often see in magazines or professional journals.

In the Photo & Text mode, the copier/printer copies the text areas with the Text option and the photo areas with the Photo option. Output copies will be made using the best sharpness and density levels for pictures and charts combined with the best levels for text.

Documents to be copied using the Photo & Text option do not have to contain photographs and text. You can use the option simply to apply the best sharpness and density levels to all of your color copies.

You can adjust the automatic recognition levels of text and photos. For details, refer to the *System Administration Guide*, or ask your System Administrator for assistance.

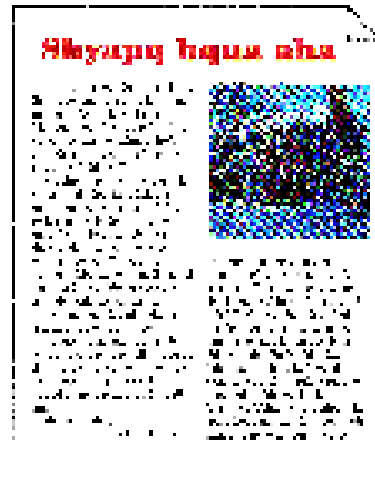


Figure 4: Example of Photo & Text



**1** Touch the **Original Type** button on the Image Quality tab to display the Original Type screen.

**2** Touch the **Photo & Text** button to display the Photo & Text detail screen, Figure 5.

**3** Touch the selection in the Photo Type column which best describes the picture or photo in the original document:

- **Halftone** (default)  
Use this option for images that are created using a fine screen that varies the darkness and density of dots that make up the image. Examples of halftone images can be found in magazines and newspapers.
- **Photograph**  
Use this option when copying photographs or extremely fine halftones.
- **Xerographic Copy**  
Use this option when using a xerographic reproduction (copy) as the original document.

**4** Touch **Save** to return to the Image Quality tab.



**Figure 5: Original Type screen with default settings**

## Text

Text is the best selection for text documents composed of fine line characters or other high contrast documents with bright, dense colors, as in Figure 6. Selecting this option suppresses background color.

Examples of text documents include business documents that contain graphics; documents with color or black text; output from a pen plotter; and documents composed of fine, sharp lines, such as diagrams.

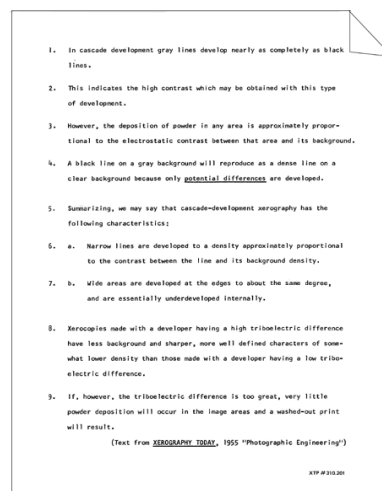


Figure 6: Example of Text Document

1 2 3...

- 1 Touch the **Original Type** button on the Image Quality tab to display the Original Type screen.
- 2 Touch the **Text** button to display the Text detail screen, illustrated in Figure 7.
- 3 Perform one of the following:
  - Select **Standard Text** if the text on the original document is of normal darkness.
  - Select **Light Text** if the text on the original document is indistinct or in pencil and should be enhanced for the output copy.
- 4 Touch **Save** to return to the Image Quality tab.



Figure 7: Text detail screen

## Photo

The Photo option is the best selection for photographs or lithographs (Figure 8) including paintings that contain a variety of pastel colors.

The Photo option provides the most accurate color and density copy for continuous tone documents that contain a wide range of densities from very dark to very light images.

The Photo option is also the best selection when true reproduction of light skin colors, light colors, or gray areas is important. The Photo option is appropriate for very high quality halftone documents.

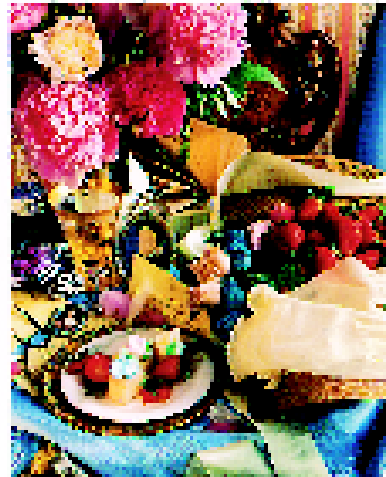


Figure 8: Example of Lithograph Original

1 2 3...

- 1 Touch the **Original Type** button on the Image Quality tab to display the Original Type screen.
- 2 Touch the **Photo** button to display the Photo detail screen, illustrated in Figure 9.



Figure 9: Photo detail screen

**3** Touch the selection in the Photo Type column which best describes the original document:

- **Halftone**

Use this option for images created using a fine screen that varies in the darkness and density of dots that make up the image. Examples of halftone images can be found in magazines and newspapers.

- **Photograph**

Use this option when copying photographs or extremely fine halftones.

- **Xerographic Copy**

Use this option when using a xerographic reproduction (copy) as the original document.

**4** Touch **Save** to return to the Image Quality tab.

## Graphics & Maps

Use the Graphics & Maps option to optimize the reproduction of detailed graphics, maps, or map-like originals. Examples include highly technical drawings, histograms, pie charts, or roadmaps (Figure 10).

With this option, text on a light-colored background is enhanced more than if the Photo option or the Text option were used.

Fine detail and light colors are copied very well in this mode. Black and white documents with fine details and a wide range of densities also copy well in this mode, although the accuracy of the reproduction is better when using the Photo option.



Figure 10: Example of Graphics & Maps



**KEY POINT:** When the Graphics & Maps button is selected, you should specify the original size of any document that has dark borders using the Added Features tab.

1 2 3...

- 1 Touch the **Original Type** button on the Image Quality tab to display the Original Type screen.
- 2 Touch the **Graphics & Maps** button, as illustrated in Figure 11.
- 3 Touch **Save** to return to the Image Quality tab.

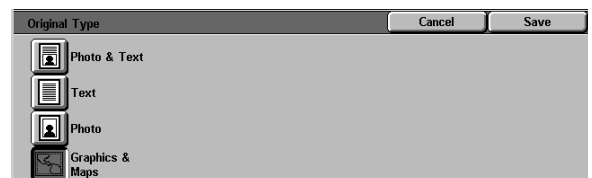


Figure 11: Graphics & Maps button selected

## Preset Color Balance

The Preset Color Balance feature (Figure 12) automatically changes Image Quality settings to produce balanced image tones described below.

The Preset Color Balance feature also lets you enable Background Suppression or Auto Suppression.

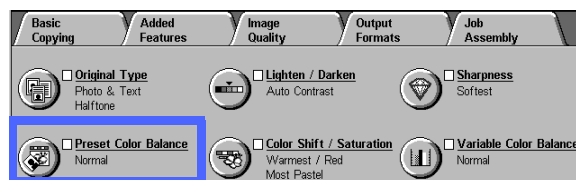


Figure 12: Preset Color Balance feature

### Normal

The Normal option, illustrated in Figure 13, makes no changes to the image quality and produces copies with the same quality and density as those of the original. The Preset Color Balance default is Normal.

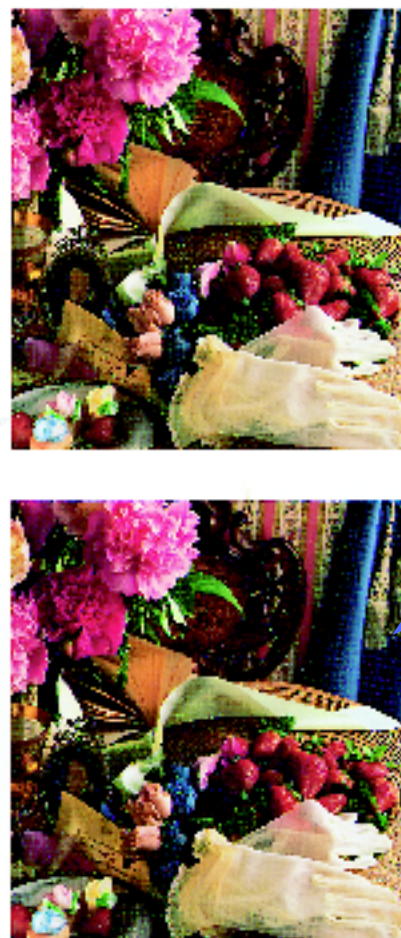


Figure 13: Example of Normal

## *Lively*

The Lively option, illustrated in Figure 14, uses the highest color saturation to produce rich, vivid output colors. The option increases the Color Saturation to the most vivid setting and adjusts the Lighten/Darken setting one step lighter.



**Figure 14: Example of Lively**

## *Bright*

The Bright option, illustrated in Figure 15, produces a sharp, clear image on the copy.

The Bright option decreases the low density settings for Yellow, Magenta, Cyan, and Black. It increases the color saturation, adjusts the Lighten/Darken setting two steps darker, and selects the highest Sharpness setting.



**Figure 15: Example of Bright**



## *Warm*

The Warm option, illustrated in Figure 16, produces a soft image on the copy by transforming low density colors into light and reddish colors. Use this setting to apply a light pink tone to skin colors and to give a soft tone to dark, warm colors.

The Warm option decreases the Low and Medium density settings for Yellow and Cyan, and increases the Medium setting for Magenta.



**Figure 16: Example of Warm**

## Cool

The Cool option, illustrated in Figure 17, produces a strong, clear blue tone on the copy. This setting makes blue color stronger and makes dark, cold colors clearer.

The Cool option decreases the Low, Medium, and High density settings for Yellow and Magenta, and increases the Low, Medium, and High setting for Cyan.



**Figure 17: Example of Cool**

## Background Suppression

Background suppression prevents undesired marks or images that are printed on the back of an original from appearing on the output copy (see Figure 18). A newspaper is one example of this type of original.

The Background Suppression feature reduces the Medium density settings for Yellow, Magenta, Cyan, and Black. The High density level for Black is increased. This alters the appearance of the color on the copy.

This feature is similar to Lighten/Darken but Lighten/Darken removes less of the background.

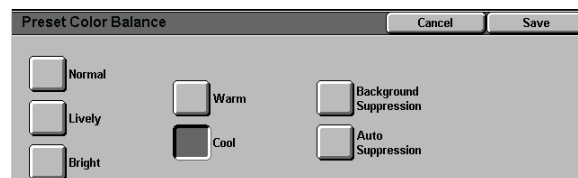


**Figure 18: Example of Background Suppression**

## Auto Suppression

Auto Suppression increases contrast and sharpness for clearer output. The copy will appear brighter than the original. Dark colors will become darker and light colors will become lighter.

- 1 Touch the **Preset Color Balance** button on the Image Quality tab to display the Preset Color Balance screen, illustrated in Figure 19.
- 2 Touch the appropriate button for the desired color balance.
- 3 Touch **Save** to return to the Image Quality tab.



**Figure 19: Preset Color Balance screen**

## Lighten/Darken

The Lighten/Darken feature (Figure 20) enables you to adjust the overall lightness or darkness (density) of the output copy. This feature offers an Auto Contrast option as well as seven lighten/darken levels.

The Normal level is the copier/printer default for Lighten/Darken. Use the Normal setting to copy original documents that appear to have the desired overall lightness or darkness.

When the Auto Contrast option is selected, the copier/printer determines the overall density of the document and adjusts the level accordingly. This feature is more effective for black and white copying. For example, in a mainly text original, the copy background may be slightly lighter and text darker.

Three different options are illustrated in Figure 21, Figure 22, and Figure 23.



**KEY POINT:** When the Lighten/Darken feature is set to Auto Contrast and the Original Type is Photo and Text or Text, the copier/printer applies an automatic background suppression function to the entire document. Background may be caused by images on the original document or by images or text on the back side of the document. The automatic background suppression function helps to reduce or eliminate the background in these situations.

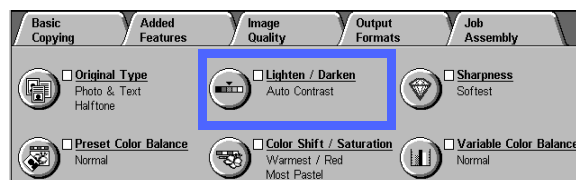


Figure 20: Lighten/Darken feature



Figure 21: Auto Contrast image



Figure 22: Lightened image



Figure 23: Darkened image

The Background Suppression option in the Preset Color Balance feature of the Image Quality tab may also be used to suppress background. Refer to the “Preset Color Balance” section in this chapter for more information.

1 2 3...

- 1 Touch the **Lighten/Darken** button on the Image Quality tab to display the Lighten/Darken screen, as illustrated in Figure 24.
- 2 Perform one of the following:
  - Touch the **Auto Contrast** button to have the copier/printer determine the darkness or lightness of the original document and adjust the output darkness or lightness automatically.
  - Using the illustrated bar as a guide, touch the button under the section that best reflects the desired degree of darkness or lightness.
- 3 Touch **Save** to return to the Image Quality tab.

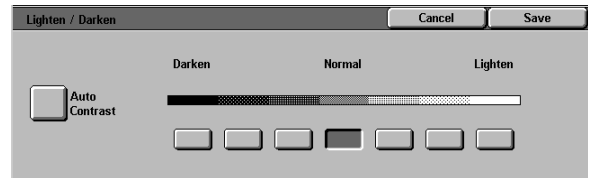


Figure 24: Lighten/Darken screen



## Color Shift/Saturation

The Color Shift/Saturation feature (Figure 25) allows you to shift all copy colors toward the adjacent hue as well as to adjust the overall richness of color on the output copy.

### Color Shift

Color shift is useful for altering the colors of your original image to better fit your needs. By touching one of the Color Shift buttons, you can cause the overall copy colors to be shifted.

The illustration on the Color Shift/Saturation screen helps you anticipate the results of the requested shift. The top bar illustrates the relationship between colors and adjacent hues. The lower bar shifts to the left or right to reflect your choice. When Normal is selected, the lower bar is centered below the upper bar. Figure 26 illustrates the Normal setting.

If you select one of the Warm buttons, the red colors shift toward the yellow hue, the green colors shift toward the cyan hue, and the blue colors shift toward the magenta hue. The lower bar shifts to the right. All colors in between these original colors also shift in the same direction. Figure 27 illustrates the Warm setting.

To continue the example, if you select one of the Cool buttons, the red colors shift toward the magenta hue, the blue colors shift toward the cyan hue, and the green colors shift toward the yellow hue. The lower bar shifts to the left. Again, all colors in between these original document colors also shift in the same direction. Figure 28 illustrates the Cool setting.

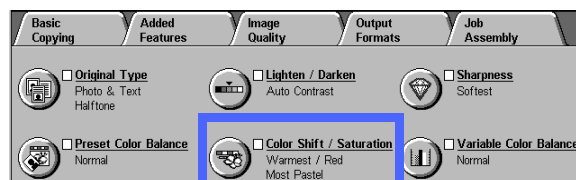


Figure 25: Color Shift/Saturation feature

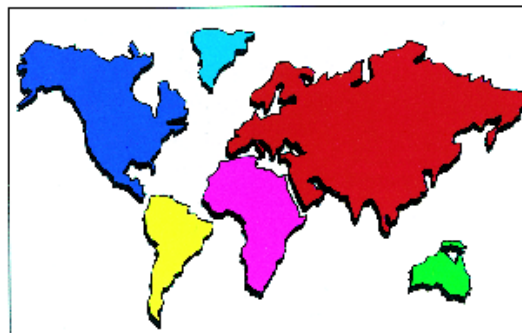


Figure 26: Normal

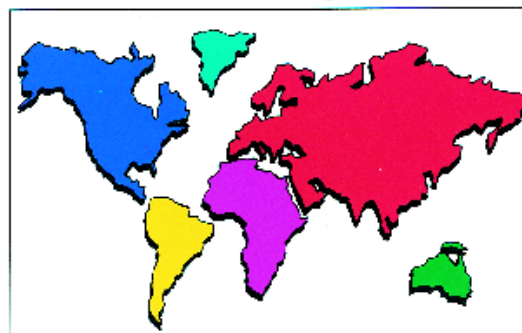


Figure 27: Color shift toward Warm

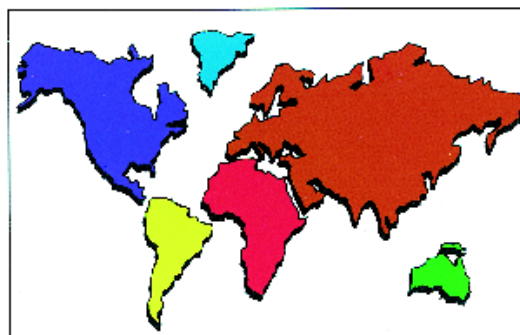


Figure 28: Color shift toward Cool

## Saturation

The Saturation feature allows you to adjust the overall richness of color on the output copy. Saturation is sometimes referred to as chroma. Colors with high saturation are sometimes called vivid colors.

The flower illustrations on the Color Shift/ Saturation screen (Figure 32) help you anticipate the results of the requested shift. The left flower illustrates the lightest pastel setting of saturation. The right flower illustrates the richest or most vivid saturation. The center flower represents the default Normal saturation. No change is made to the flowers based on your selection.

Three levels of Saturation are illustrated in Figure 29, Figure 30, and Figure 31.



**Figure 29: Normal saturation**



**Figure 30: Maximum saturation**



**Figure 31: Minimum saturation**



- 1 Touch the **Color Shift/Saturation** button on the Image Quality tab to display the Color Shift/Saturation screen, as illustrated in Figure 32.
- 2 Touch the button for the desired **Color Shift** in the range from **Cooler** to **Warmer**.
- 3 Touch the button for the desired **Saturation** in the range from **Most Pastel** to **Most Vivid**.
- 4 Touch **Save** to return to the Image Quality tab.

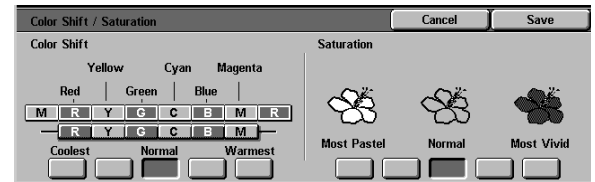


Figure 32: Color Shift/Saturation screen

## Sharpness

The Sharpness feature (Figure 33) allows you to adjust the amount of edge definition on the copies. Five adjustment levels, corresponding roughly to the illustrations on the screen, are available.



**NOTE:** For optimum sharpness on the copies, it is important to select the correct Original Type for your input document in the Image Quality tab.

The Normal level is the copier/printer default for Sharpness. Use the Normal setting to copy documents that appear to have the desired amount of edge definition. Figure 34 illustrates the results of this setting.

Use the Softer levels to decrease the amount of edge definition to copy photographs or other documents where softer, less focused, output copies are desired. This option is especially desirable when copying very coarse dot screens. If Text has been selected as the Original Type, but the text is on a halftone background, selecting a softer sharpness level may give you better output. Figure 35 illustrates the results of this setting.

Use the Sharpen levels to increase the amount of edge definition for original documents such as maps, line art, or graphics that should have crisp lines. Figure 36 illustrates the results of this setting.

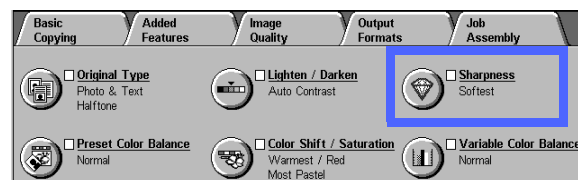


Figure 33: Sharpness feature

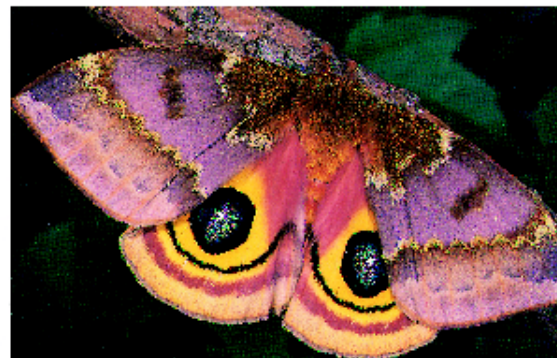


Figure 34: Normal Sharpness



Figure 35: Softer

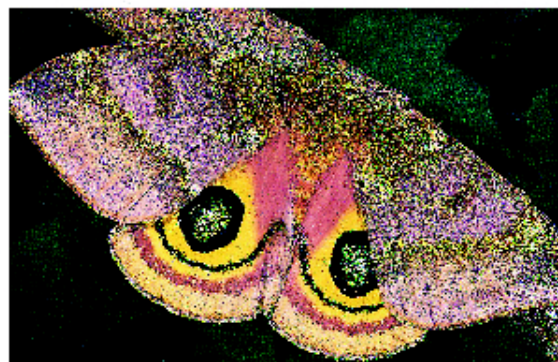


Figure 36: Sharper

- 1 Touch the **Sharpness** button on the Image Quality tab to display the Sharpness screen, as illustrated in Figure 37.
- 2 Using the diamond illustrations as guides, touch the button that best reflects the desired degree of softness or sharpness.
- 3 Touch **Save** to return to the Image Quality tab.



**Figure 37: Sharpness screen**

## Variable Color Balance

The Variable Color Balance feature (Figure 38) allows you to adjust the balance between colors and the overall amount of color on the output copies.

Variable Color Balance provides you with the maximum range of color control available. You can adjust the levels of all four process colors (Yellow, Magenta, Cyan, and Black) for areas of high, medium, and low density on the output copies. Three higher settings, three lower settings, and the normal (medium) settings are available for each density level of each color. Each density level and each color can be adjusted independently, and you can use any combination of adjustments.

Three different settings for Variable Color Balance using Magenta are illustrated in Figure 39, Figure 40, and Figure 41.



**KEY POINT:** It is important to remember that adjusting the amount of any of the process colors has an effect on the other colors.

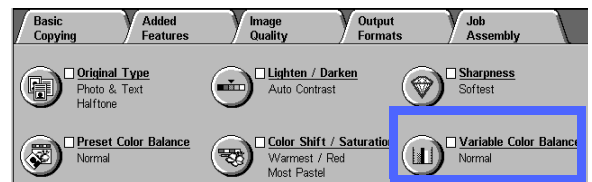


Figure 38: Variable Color Balance feature



Figure 39: Normal

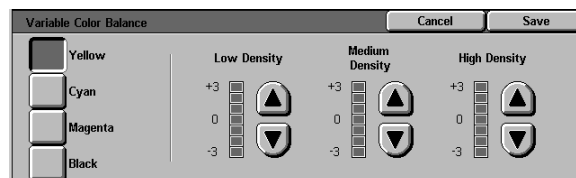


Figure 40: Maximum magenta



Figure 41: Minimum magenta

- 1 Touch the **Variable Color Balance** button on the Image Quality tab to display the Color Balance screen, as illustrated in Figure 42.
- 2 Touch the button for the desired color.
- 3 Select the desired density (low, medium, or high) and perform one of the following:
  - Touch the **up** arrow to increase the amount of color to be applied.
  - Touch the **down** arrow to decrease the amount of color to be applied.
- 4 If desired, repeat steps 2 and 3 for other colors.
- 5 Touch **Save** to return to the Image Quality tab.

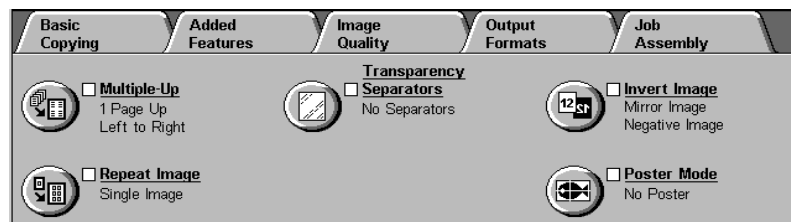


**Figure 42: Color Balance screen**



# 7 Output Formats

## Overview



**Figure 1: Output Formats Tab**

The Output Formats tab, illustrated in Figure 1, enables you to specify special output formats.

### *Multiple-Up*

The Multiple-Up feature enables you to copy up to eight images from multiple originals onto a single page.

### *Repeat Image*

The Repeat Image feature enables you to copy a single image multiple times onto one page.

## *Transparency Separators*

The copier/printer can produce transparencies with or without blank separators between them. The Transparency Separators feature directs the copier/printer to insert the separators.

## *Covers*

The optional Covers feature enables you to add covers to your copy sets.

## *Invert image*

The Invert Image feature enables you to create negative images, mirror images, or negative mirror images on your output copy from the document that was placed on the Document Glass.

## *Poster Mode*

The Poster Mode feature enables you to create a poster-size reproduction of the document original by creating multiple images that can then be trimmed and joined.



**NOTE:** Some Output Formats features require special conditions. Some features cannot be combined with other features because of the multiple functions they perform to create the desired output. Be sure to read the notes in this chapter that detail the conditions or restrictions of the Output Formats features.



**KEY POINT:** If you select a non-default option for a feature, a check mark appears next to the feature name on the Output Formats tab. The selected option for each feature displays beneath the feature name.



## Multiple-Up

The Multiple-Up feature (Figure 2) enables you to copy two, four, or eight images from multiple originals onto a single page. Figure 3 provides an example of the 4-up option. Note that each image is centered in its space.

The default is set to 1 Page Up to produce a single image on a single page.



**NOTE:** Keep the following notes in mind when using Multiple-Up:

- All originals must be the same size. Paper size or magnification is determined by the first original that is scanned.
- Do not Interrupt the Multiple-Up job.
- The following features cannot be used in conjunction with Multiple-Up:
  - Margin Shift
  - Repeat Image
  - Book Copying
  - Invert Image
  - Negative Image
  - Poster Mode
  - Mixed Size Originals
- When you copy original documents from the Document Glass, you can only select a 25 to 100% reduction.
- Depending on the size of the original, some image loss might occur along the edge of the image.
- Enlarged images cannot exceed 17 inches (432 mm) in the X direction.
- Do not use 12 x 18-inch or SRA3 paper.

The order and final rotation of images depend on the selections you make for the Image Order and Original Orientation options on the Multiple-Up screen.

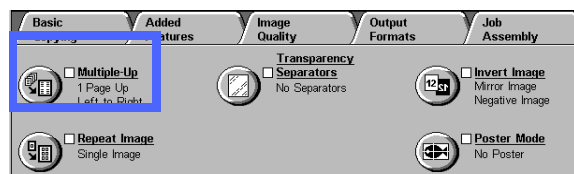


Figure 2: Multiple-Up feature

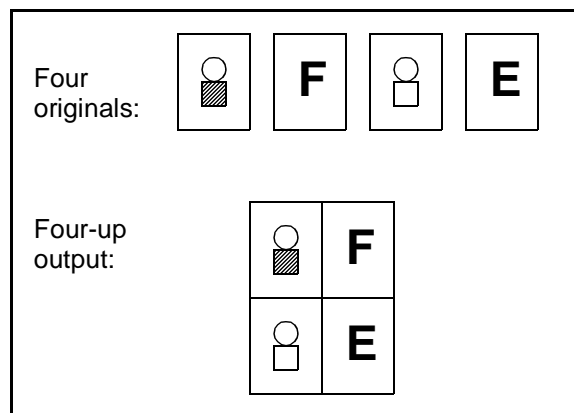


Figure 3: Example of Multiple-Up

## 2 Pages Up

If you use the 2 Pages Up option, you can select one of the following image placements for your output copies:

- Left-to-right / top-to-bottom
- Right-to-left / top-to-bottom
- Top-to-bottom

Figure 4 illustrates the above image placements.

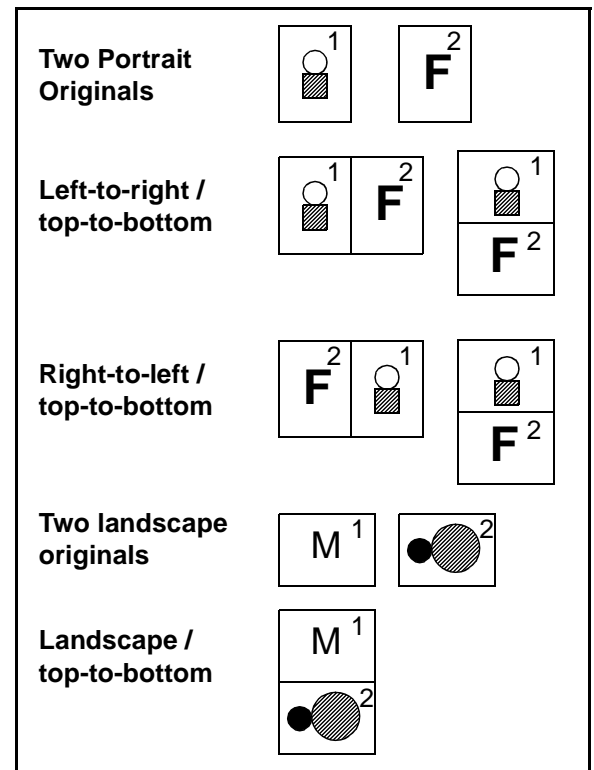


Figure 4: 2-Up image placement

## 4 Pages Up and 8 Pages Up

If you use the 4-Up or 8-Up option, you can select one of the following image placements for your output copies:

- Horizontally, beginning from the upper left corner
- Horizontally, beginning from the upper right corner
- Vertically, beginning from the upper left corner
- Vertically, beginning from the upper right corner

Figure 5 illustrates the above image placements.

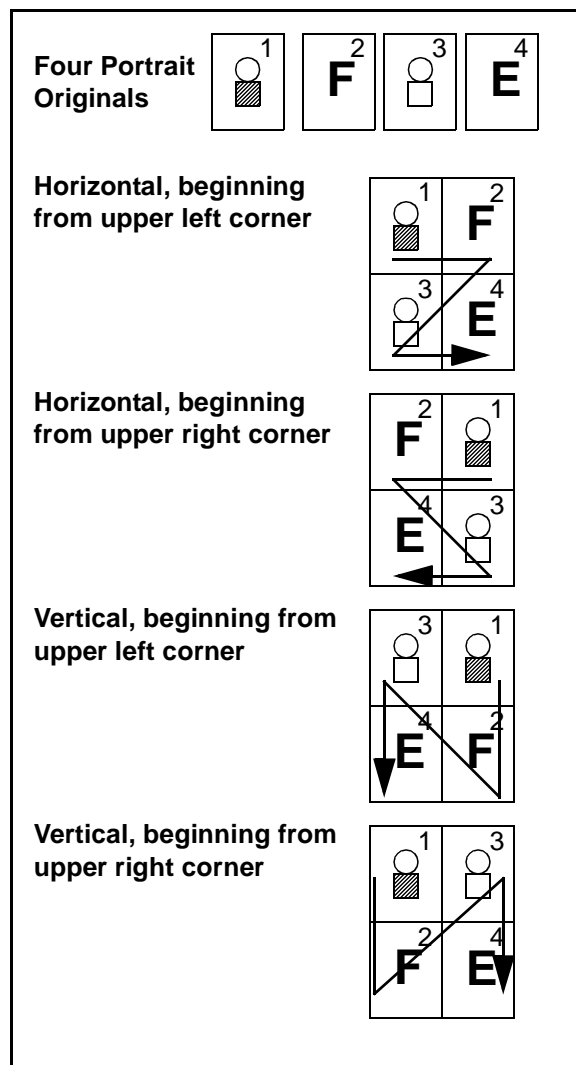


Figure 5: 4 Pages Up or 8 Pages Up image placement

## Number of images per page

Tables 1 and 2 will help you determine whether two, four or eight images can fit on a page without image loss due to differences between the original document and output copy size. Images are centered in the image area.

When more originals are used than can fit on a single page, the extras are copied onto the next sheet with the same reduction or enlargement.

Original Document Size	Output Copy Paper Size			
	4 x 6 inches	5.5 x 8.5 inches	8.5 x 11 inches	11 x 17 inches
4 x 6 inches				
5.5 x 8.5 inches	8			
8.5 x 11 inches	4	8		
11 x 17 inches	2	4	8	

Table 1: Number of images per multiple-up page (US sizes)

Original Document Size	Output Copy Paper Size						
	A6	A5	A4	A3	B6	B5	B4
A6							
A5	8				8		
A4	4	8			4	8	
A3	2	4	8		2	4	8
B6	8						
B5	4	8			8		
B4	2	4	8		4	8	

Table 2: Number of images per multiple-up page (International sizes)

- 1 Touch the **Multiple-Up** button on the Output Formats tab to display the Multiple-Up screen (Figure 6).

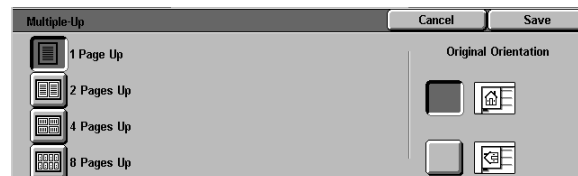


Figure 6: Multiple-Up screen with default selected

- 2 Touch one of the following buttons to display the appropriate detail screen:

- **1 Page Up** (default setting, Figure 6)
- **2 Pages Up** (Figure 7)
- **4 Pages Up** (Figure 8)
- **8 Pages Up** (Figure 8)

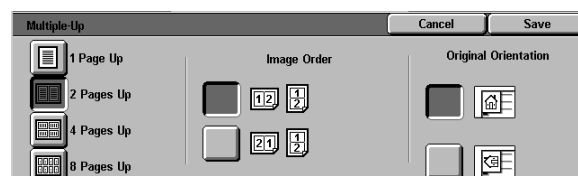


Figure 7: 2 Pages Up detail screen

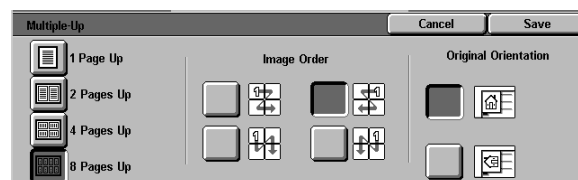


Figure 8: 4 or 8 Pages Up detail screen

- 3 If you selected the 2, 4, or 8 Pages Up button, touch the button next to the icon that represents the desired Image Order.
- 4 Touch the button next to the icon that most closely resembles the Original Orientation of the document on the Document Glass.
- 5 Touch **Save** to display the Output Formats tab.

## Repeat Image

The Repeat Image feature (Figure 9) enables you to copy a single image multiple times onto one page.

The Repeat Image feature offers the following options:

### Single Image

This is the default setting. It produces only one image per output page.

### Auto Image Repeat

After you have specified image size and your desired output size, the copier/printer is able to automatically determine the number of images that can fit on your output when **Auto Image Repeat** is selected.

### Variable Image Repeat

With this option, you can specify the number of images that will print on a single sheet by selecting the number of columns and rows to print.

For example, if you select 1 column of 4 rows, 4 images print on the output, as illustrated in Figure 10. If you select 2 columns with 5 rows, 10 images print in two columns.

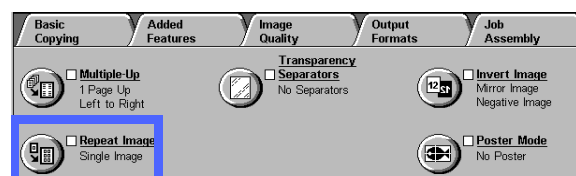


Figure 9: Repeat Image feature

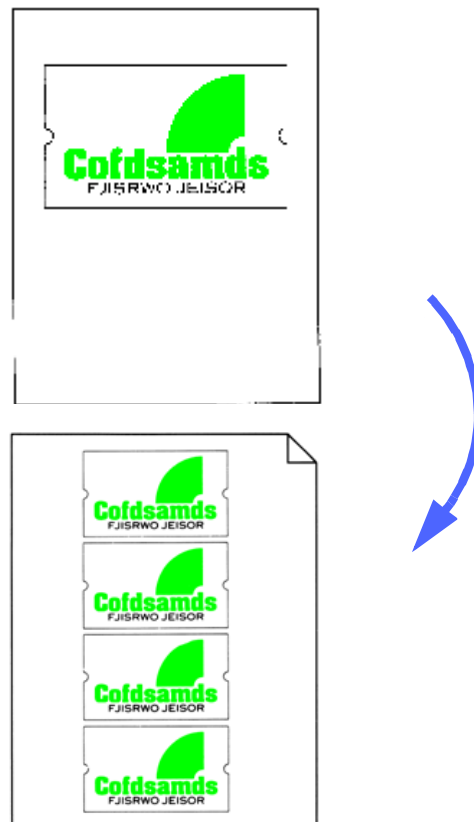


Figure 10: Example of Repeated Image



**NOTE:** Keep the following notes in mind when using Repeat Image:

- The original document must be placed on the Document Glass.
- The following features cannot be used in conjunction with Repeat Image:
  - Reduce/Enlarge, Auto% options
  - 2 sided
  - Margin Shift
  - Multiple-Up
  - Auto Center
  - Variable Erase for the Center Area
  - Book Copying
  - Negative Image
  - Auto Paper supply
  - Poster Mode
  - Covers Mode
  - Transparencies
  - Mixed Size Originals
- Depending on the size of the original document, some image loss might occur along the edge of the image.
- Enlarged images cannot exceed 17 inches (432 mm) in the X direction.
- Do not use 12 x 18-inch or SRA3 paper.

The final rotation of the images depends on the selection you make for the Original Orientation option on the Repeat Image screen.

- 1 Touch the **Repeat Image** button on the Output Formats tab to display the Repeat Image screen (Figure 11).

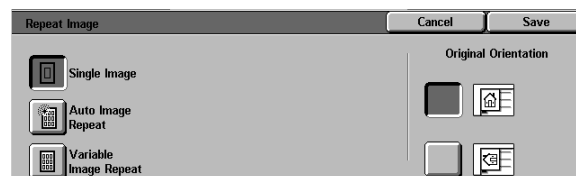


Figure 11: Repeat Image screen

- 2 Touch one of the following options to display the appropriate detail screen:

- **Single Image** (default setting, Figure 11)

- **Auto Image Repeat** (Figure 12)

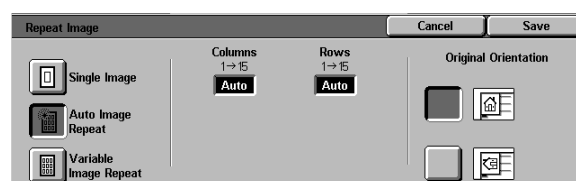


Figure 12: Auto Image Repeat detail screen

- **Variable Image Repeat** (Figure 13)
  - Under the **Columns** title, touch the **up arrow** to increase the number of images to print in a column, or touch the **down arrow** to decrease the number of images to print in a column.
  - Under the **Rows** title, touch the **up arrow** to increase the number of images to print in a row, or touch the **down arrow** to decrease the number of images to print in a row.

Notice that the values (ranging from 1 to 15) in the boxes increase or decrease according to your selection.

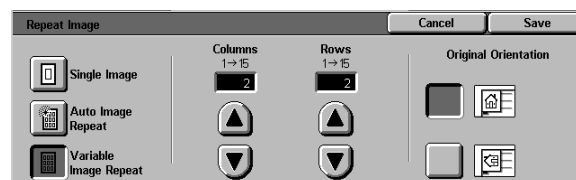


Figure 13: Variable Image Repeat detail screen

- 3 Touch the button next to the icon that most closely resembles the Original Orientation for the document on the Document Glass.
- 4 Touch **Save** to display the Output Formats tab screen.



## Transparency Separators

When you select the Transparency Separators feature (Figure 14), the copier/printer automatically inserts a blank sheet of paper between the transparency copies in the output tray.

The Transparency Separator feature offers the following options:

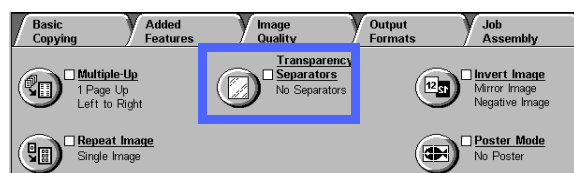


Figure 14: Transparency Separators feature

### No Separators

This is the default setting. Use it for normal copy jobs and for transparency copies with no separator sheets.

### Blank Separators

This option enables the copier/printer to insert a blank sheet between every transparency (Figure 15).

When you select this option, the screen displays a Paper Trays detail area. In this area, you can access the Tray Settings screen to specify which tray to use as the source for the separators.



**KEY POINT:** To use this feature, paper of the same size and orientation must be in a tray other than Paper Tray 5.

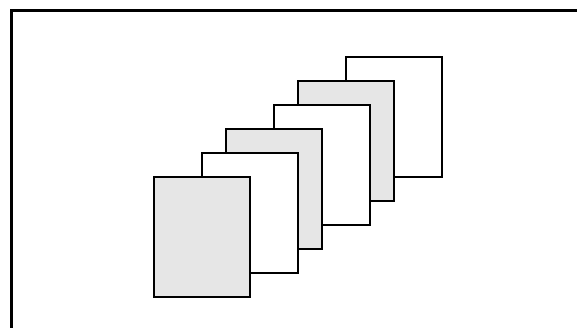


Figure 15: Example of Transparencies with Blank Separators



**NOTE:** Keep the following notes in mind when using Transparency Separators:

- Do not interleave paper and transparencies in Paper Tray 5. Jams may occur.
- The paper used as separators must be the same size as the transparencies.
- Do not use heavy paper as separators.
- The following features may not be used in conjunction with Transparency Separators:
  - Multiple-Up
  - 2 Sided
  - Repeat Image
  - Poster Mode
  - Covers Mode
  - Collated/Uncollated

- 1 Touch the **Transparency Separators** button on the Output Formats tab to display the Transparency Separators screen (Figure 16).

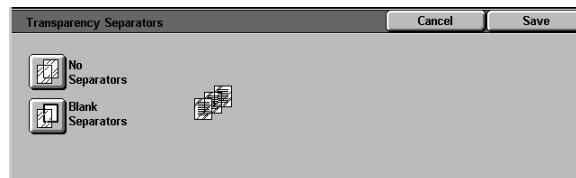


Figure 16: Transparency Separators screen

- 2 Touch one of the following options:

- **No Separators** (default setting, Figure 16)
- **Blank Separators** (Figure 17)
  - Ensure that the Paper Tray listed for the separators contains the correct size and type of paper.
  - If you need to make changes to the separator paper tray, touch the Paper Trays button to display the Tray Settings screen (Figure 18). Notice that only Paper Tray 5 is selectable as the transparency tray.
  - You may have to touch the Tray 5 button and select a Paper Type (Transparency) and size before the system allows you to save these values and select a Separator Tray.
  - Under Separator Tray, select the paper tray to use as a source for the separators.
  - Touch **Save** to return to the Transparency Separators screen.

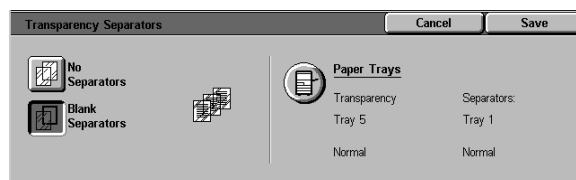


Figure 17: Transparency Separators screen with Blank Separators selected

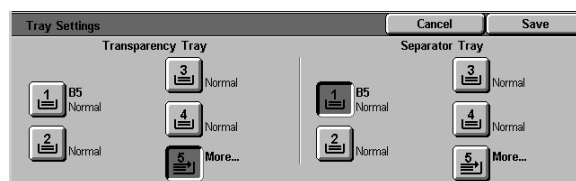


Figure 18: Tray Settings screen

- 3 Touch **Save** to display the Output Formats tab.



**KEY POINT:** If you load transparencies into Tray 5, it is automatically set to transparencies. The Tray 5 window does not pop up like it does when separators are selected.

## Covers

The optional Covers feature (Figure 19) allows you to add covers to your copied sets, using stock drawn from a different tray than your copies. You can have 1-sided or 2-sided front covers or 1-sided or 2-sided front and back covers. The covers can be with or without an image.

The **Covers** section provides the following options:

### No Covers

Select **No Covers** if covers are not required. This is the default setting.

### Front Cover

Select **Front Cover** to create a front cover. This setting copies the first original on cover stock.

### Front and Back Covers

Select **Front and Back Covers** to create both front and back covers for your job. This selection is required if you are adding covers to booklets. This setting copies the first and last originals on cover stock.

Both the **Front Cover** and **Front and Back Cover** options display a screen from which you can select paper stock and paper supply.

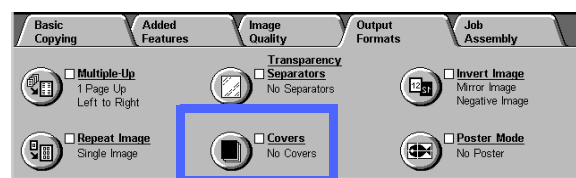


Figure 19: Output Format - Covers button

**NOTE:** Keep the following notes in mind when using covers:



- The Repeat Image and Transparency Separators options are not available with the Covers feature.
- The Covers feature is not available on machines without a Sorter.
- You must select “Collated” for Covers jobs.
- You cannot select Tray 5 for Covers jobs.
- The paper size and orientation must be the same for the whole job.
- For 1-sided covers with images, the machine uses the first image of your original set as the front cover and the last image as the back cover.
- For 2-sided covers with images, the machine uses the first two images of your original set for the front cover and the last two images for the back cover. If you require a blank inside front or back cover, you must insert a blank original sheet into the set of originals. For example, for a blank inside front cover, insert a blank sheet immediately after it. For a blank inside back cover, insert a blank sheet immediately before it.

- 1 Touch the **Covers** button on the Output Formats tab to display the Covers screen (Figure 20).

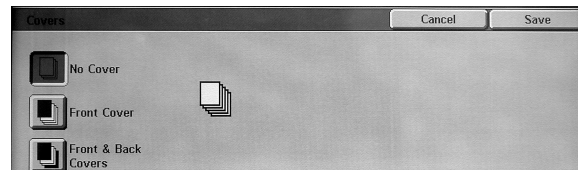


Figure 20: Output Format - Covers options

- 2 Touch one of the following options:
  - **No Cover** (default setting, Figure 20)  
Touch the **No Cover** button if you do not wish to create a cover.

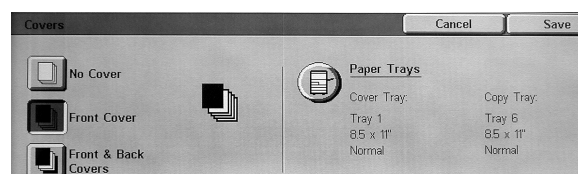
- **Front Cover**

Touch the **Front Cover** button if you wish to create a front cover. This displays the Paper Trays button (Figure 21).

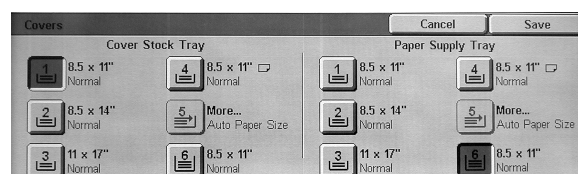
Touch the **Paper Trays** button to display the Cover Stock Tray and Paper Supply Tray options (Figure 22).

Touch the correct **Cover Stock Tray** and **Paper Supply Tray**.

Touch **Save** to save the selections.



**Figure 21: Paper trays button**



**Figure 22: Cover Stock Tray and Paper Supply Tray options**

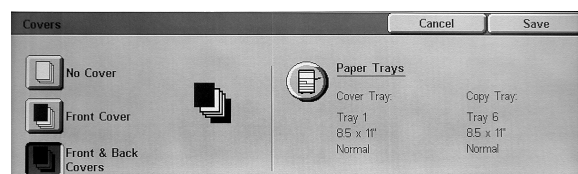
- **Front and Back Covers**

Touch the **Front and Back Covers** button if you wish to create front and back covers. This displays the Paper Trays button (Figure 23).

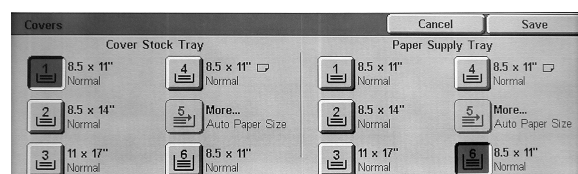
Touch the **Paper Trays** button to display the Cover Stock Tray and Paper Supply Tray options (Figure 24).

Touch the correct **Cover Stock Tray** and **Paper Supply Tray**.

Touch **Save** to save the selections.



**Figure 23: Front and Back Covers button**



**Figure 24: Cover Stock Tray and Paper Supply Tray options**

- 3 Touch **Save** to display the **Output Formats** tab.
- 4 Select **Collated** under the **Copy Output** feature on the **Basic Copying** tab.
- 5 Place the correct cover stock in the specified paper tray.
- 6 Press **Start** to begin copying.

## Invert Image

The Invert Image feature (Figure 25) allows you to create a mirror image, negative image, or negative mirror image.



**NOTE:** To apply an Invert Image feature to a document, you must use the Document Glass when making your copies. The Invert Image feature does not work when original documents are fed through the Duplex Automatic Document Feeder.

## Mirror image

When the Mirror Image feature is selected, the output copy of the entire document area appears as a mirror image reflection of the document that was placed on the Document Glass. Figure 26 provides an illustration of a mirror image.



### KEY POINT:

- Mirror Image applies to the entire document. Specific areas of the document cannot be selected.
- The Margin Shift feature can not be used with the Invert Image feature.

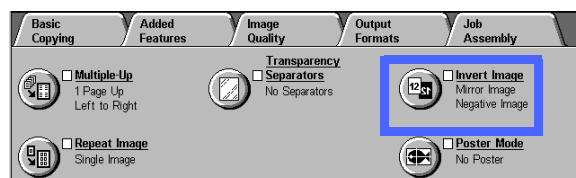


Figure 25: Invert Image feature



Figure 26: Example of a mirror image



- 1 Touch the **Invert Image** button on the Output Formats tab to display the Invert Image screen (Figure 27).

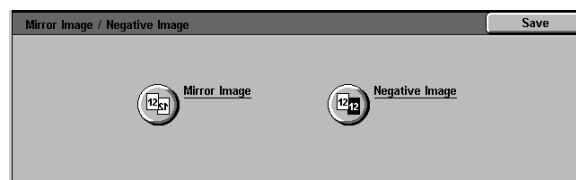


Figure 27: Invert Image screen

- 2 Touch the **Mirror Image** button to display the Mirror Image screen (Figure 28).
- 3 Perform one of the following:
  - Touch the **Normal Image** button to restore the default.
  - Touch the **Mirror Image** button to select the mirror image option.
- 4 Touch the **Save** button to display the Invert Image screen.
- 5 Touch the **Save** button to display the Output Formats tab.

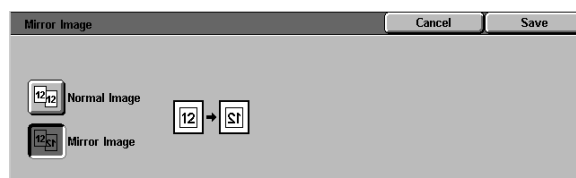


Figure 28: Mirror Image screen

## Negative Image

The Negative Image feature reverses the colors of the whole document image.

This feature has two options:

- **Positive Image**

This produces a copy that looks like the original document (Figure 29). This is the default setting.

- **Negative Image**

With this option, the positive colors are converted to their complements. Full color or 3-pass color positive image colors become negative image colors or the complementary colors of the positive.

The simplest example of negative imaging is that the color white reverses to black (Figure 30). White is the negative color of black. If a black image on a white background is copied in this mode, the image is copied as white, and the background is black. The reversal of the black and white numbering, as illustrated in Figures 29 and 30, demonstrates negative imaging.

With the Negative Image option, you can select a single output color to produce a copy that has the selected color as the background color with shades of the color in the image area.



Figure 29: Sample positive image



Figure 30: Sample negative image

- 1 Touch the **Invert Image** button on the Output Formats tab to display the Invert Image screen (Figure 31).
- 2 Touch the **Negative Image** button to display the Negative Image screen (Figure 32).
- 3 Perform one of the following:
  - Touch the **Positive Image** button to restore the default.
  - Touch the **Negative Image** button to select a negative image or image inversion.
- 4 Touch the **Save** button to display the Invert Image screen.
- 5 Touch the **Save** button to display the Output Formats tab.

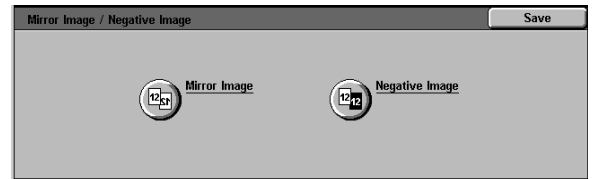


Figure 31: Invert Image screen

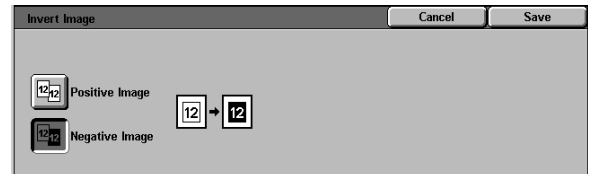


Figure 32: Negative Image screen

## Poster Mode

The Poster Mode feature (Figure 33) allows you to create a poster size reproduction of the document original by creating multiple images that can be trimmed and joined together after. There will be some image overlap on the multiple copies to allow for the trimming and joining operations required to assemble the copies into a poster.

The Poster feature offers three different options.

### No Poster

This is the default setting, which cancels this feature.

### Variable Poster Size

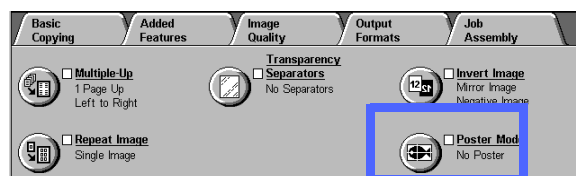
This option enables you to specify the percentage of enlargement of the length (Y) independently from the width (X), if necessary.

You can enlarge the length or width up to 400%.

### Preset Poster Size

This option programs the copier to calculate enlargement automatically to create a poster of the final dimensions you specify.

Based on the document size, the selected size of the copy paper, and the size of the enlargement, the copier/printer scans sections of the original image and automatically creates a copy enlargement for each scanned section on a single page.



**Figure 33: Output Formats - Poster Mode button**



**NOTE:** Keep the following notes in mind when using the Poster Mode feature:

- Copy quantity selection for the Poster feature is limited to one.
- An image can be enlarged up to 400 times its normal size. The copier/printer can produce up to 36 sheets of paper to provide a poster of the complete image.
- For multisheet poster jobs, you must trim and join the copies to complete the poster.
- When making Poster copies, place the document on the upper left corner of the Document Glass to register the document along both edges of the guide. If the document is not registered correctly in the corner, image defects on the copy will appear.
- Place the original document on the Document Glass in the same orientation (short or long edge first) as the orientation of the selected Poster copy paper in the paper trays (short or long edge first).
- Repeat Image, Transparency Separators and Covers options are not available when Poster Mode has been selected.
- Do not interrupt the Poster job.
- Do not use the following features with Poster
  - 2 Sided
  - Book Copying
  - Variable Erase for the Center Area

- 1 Touch the **Poster Mode** button on the Output Formats tab to display the Poster Mode screen (Figure 34).



Figure 34: Poster options

- 2 Touch one of the following options:

- **No Poster**

Touch No Poster if you do not wish to create a poster.

- **Variable Poster Size**

Touch Variable Poster Size if you wish to create a variable size poster.

Under **Length Y**, touch the **up arrow** to increase the enlargement percent for the length of each segment or touch the **down arrow** to decrease the enlargement percent.

Under **X & Y**, touch the **up arrow** to increase the enlargement percent for the both the length and width of each segment or touch the **down arrow** to decrease the enlargement percent.

Under **Width X**, touch the **up arrow** to increase the enlargement percent for the width of each segment or touch the **down arrow** to decrease the enlargement percent.

Values range from 100% to 400% for the length or width. Notice that the values in the boxes increase or decrease according to your selection.

Touch **Save** to save the selections.

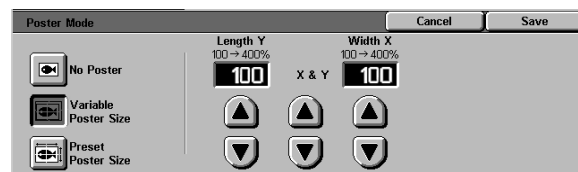


Figure 35: Variable Poster Size

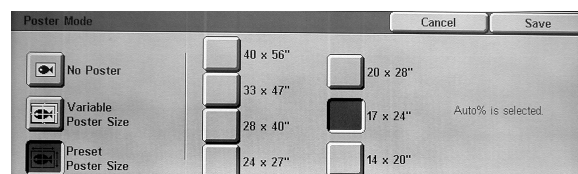
- **Preset Poster Size**

Touch **Preset Poster Size** (Figure 36) if you wish to create a preset poster size.

Touch the appropriate dimension size button for the final poster size. The machine will automatically select Auto% Reduce/Enlarge once you have selected the poster size.

Poster Sizes	
40" x 56"	20" x 28"
33" x 47"	17" x 24"
28" x 40"	14" x 20"
24" x 27"	

**Table 3: Poster Sizes**



**Figure 36: Preset poster sizes**

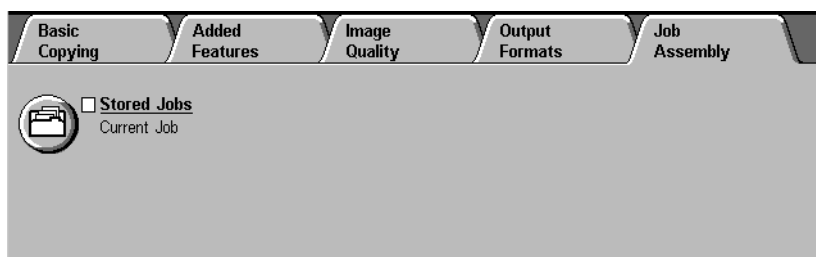
- 4** Touch **Save** to display the **Output Formats**.
- 5** Place the correct stock in the specified paper tray.
- 6** Press **Start** to begin copying.





## 8 Job Assembly

### Overview



**Figure 1: Job Assembly Tab**

In the Job Assembly tab, illustrated in Figure 1, you can use the following feature:

### Stored jobs

This feature enables you to store frequently-used feature settings in the built-in copier/printer memory. You can recall these settings as needed.



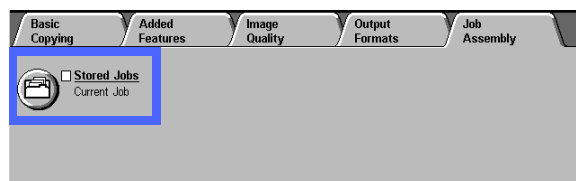
**KEY POINT:** After you select an option other than the default for a feature and save your selection and return to the tab, a check mark displays near the feature name and the selected value or option displays under the feature name.

## Stored Jobs

The Stored Jobs feature (Figure 2) is used to store jobs with complex feature settings that you run frequently. This feature allows you to program various settings in the built-in copier/printer memory and save them as a single “job.” Up to 10 jobs can be stored in the built-in copier/printer memory.

You can retrieve stored jobs and apply their programming features to a new copy job. Deleting stored jobs frees that memory position for storing different jobs.

Use the job number buttons to assign, access, or delete the jobs that have been stored in the copier/printer memory and to indicate the next available memory position. You may want to record the job details with the job number in a notebook for reference.



**Figure 2: Stored Jobs feature**

1 2 3...

- 1 Program the features and options you want to save for future use.
- 2 Touch the **Stored Jobs** button on the Job Assembly tab to display the Stored Jobs screen, as illustrated in Figure 3.
- 3 Touch the **Store Job** option.
- 4 Touch the desired button to identify the job number.  
  
Record this number and the job details for future reference.
- 5 Touch **Confirm** to display the Job Assembly tab.

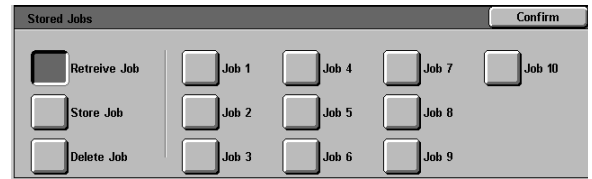


**Figure 3: Stored Job option selected**



**NOTE:** You can not select a job number that already has a job stored in it. You must delete the currently stored job first. Once you have deleted the job you may store the new programming under the same job number.

- 1 Touch the **Stored Jobs** button on the Job Assembly tab to display the Stored Jobs screen, as illustrated in Figure 4.
- 2 Touch the **Retrieve Job** option to display all stored jobs. Only those buttons associated with jobs will be selectable.
- 3 Touch the button for the job (1-10) to be retrieved.
- 4 Touch the **Confirm** button.
- 5 Press the **Start** button to process the job.



**Figure 4: Retrieve Job option selected**

1 2 3...

- 1 Touch the **Stored Jobs** button on the Job Assembly tab to display the Stored Jobs screen.
- 2 Touch the **Delete** option to display all stored jobs, as illustrated in Figure 5. Only those buttons associated with jobs will be selectable.
- 3 Touch the button for the job to be deleted. A confirmation screen displays.
- 4 Perform one of the following:
  - Touch the **Yes** button to confirm the deletion.
  - Touch the **No** button to cancel the deletion.
- 5 Touch the **Confirm** button to display the Job Assembly tab.

You can now store a new job in the copier/printer memory in place of the job you deleted.



Figure 5: Delete job option



# 9 Paper

## Overview

This chapter contains basic information about loading paper or transparencies and about using paper trays. It also includes some paper usage guidelines for the Document Centre ColorSeries 50.

Good quality, 24 lb (90 gsm) bright, white paper with a smooth finish is the standard for color output, as it reduces show-through on 2-sided output and provides the best quality output. Good quality 20 lb (75 gsm) paper is the standard for black and white output.



**NOTE:** For additional information on materials, see the *Recommended Materials List* and the *Color Materials Usage Guide*.

## Paper Trays 1, 2, 3, and 4

Paper Trays 1, 2, 3, and 4 hold the paper supply for the Document Centre ColorSeries 50 color copier/printer.

Paper Tray 1, illustrated in Figure 1, can accommodate 8.5 x 11 inch, A4, B5, or A5 paper.

Paper Trays 2, 3, and 4, illustrated in Figure 1, can accommodate an assortment of standard paper sizes, from 8 x 10 inch through 17 x 11 inch, and B5 through A3.

**KEY POINT:** Paper Trays 2, 3, and 4 can handle normal weight papers from 64 - 105 gsm (16lb - 28lb bond). Paper Trays 2, 3, and 4 can also handle limited, heavyweight papers from 105 - 128 gsm (28lb - 32lb) if they are specifically set to "Heavyweight" in **Tools** mode (See chapter 3 of the *System Administration Guide*).

Trays 2, 3, and 4 have width and length adjustment guides that should be adjusted if the paper size in the tray needs to be changed.

**NOTE:** Paper Trays 2, 3, and 4 can accommodate SRA3 and 12 x 18 inch paper through a special, optional tray setup procedure performed by a Xerox service representative. If you are interested in this capability, contact your Xerox service representative.

Refer to the *Recommended Materials List* and the *Color Materials Usage Guide* for more information about the materials you can use in Paper Trays 1, 2, 3, and 4.

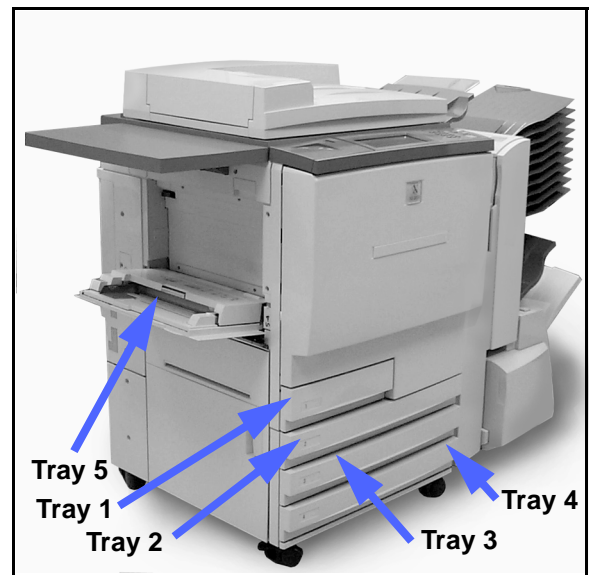


Figure 1: Paper Trays



## Paper Tray 5

Paper Tray 5 (sometimes called the Bypass Tray or the Multiple Sheet Inserter) is located on the left side of the copier/printer, as illustrated in Figure 2. Paper Tray 5 can accommodate transparencies and other specified paper stocks, and various paper sizes up to 12 x 18 inches or SRA3 (320 x 450 mm).

Refer to the *Recommended Materials List* and the *Color Materials Usage Guide* for more information about the materials you can use in Paper Tray 5.



**CAUTION:** Do not, at any time, place any objects or materials other than the appropriate stock on Paper Tray 5. Copier/printer damage may occur.



**KEY POINT:** If making 2-sided copies using Tray 5, remove any extra paper from the tray prior to starting the 2-sided copy job. Ensure that extra paper is removed from the tray prior to loading the side 1 copies into the tray.

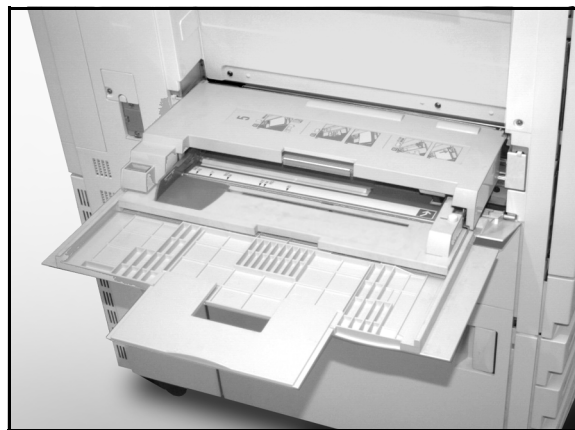


Figure 2: Paper Tray 5

## *Auto Tray Switching - Tools Mode*

Auto Tray Switching is enabled in the Tools mode only for Paper Trays 1, 2, 3 and 4, not for Paper Tray 5.

The Auto Tray Switching feature prompts the copier/printer to switch trays when one runs out of paper. The trays must be loaded with the same size paper in the same orientation (long edge feed or short edge feed).

Auto Tray Switching will only work if the same paper type is assigned to two or more paper trays and if the Auto paper supply button is selected.

The default for Auto Tray Switching is ON with Paper Trays 1, 2, 3, and 4 enabled. To use Auto Tray Switching with the default settings, load the trays you want to use with the same size paper in the same orientation.

For example, trays 2 and 3 are loaded with the same size paper in the same orientation. If you select the Tray 2 Paper Supply button under the Basic Copying tab, the copier/printer will draw paper from Tray 2 until it is empty. The copier/printer will then switch automatically to Tray 3 without interrupting the job currently being processed.

# Loading stock

## Using paper

The front and back surfaces of a piece of paper differ slightly. Therefore, one side is preferred as the side to image when copying to one side only, or the side to image first if copying to two sides. This side is referred to as the **Preferred Printing Side**, or the **Wire Side**. The other side is referred to as the **Nonpreferred Printing Side**, or the **Felt Side**.

Some ream wrappers mark this **Preferred Printing Side** with an arrow. If the arrow is not present, turn the ream over so the seam is facing up.

Load the paper into Paper Trays 1, 2, 3, and 4 with the preferred printing side down. With the wrapper seam facing **up** (illustrated in Figure 3), remove the paper from the wrapper and load without turning it.

Load the paper into Paper Tray 5 with the preferred printing side up. With the seam facing **down**, remove the paper from the wrapper and load it without turning it.

The sheet capacity of the tray varies with the paper weight that is loaded in the tray. Refer to the "Paper Usage" section in this chapter for the recommended paper stock selections, or refer to the *Recommended Materials List* and the *Color Materials Usage Guide*.



Figure 3: Opening a ream of paper with seam side up

**KEY POINT:**

- For the best results, use only the recommended paper sizes, paper weights, or paper types. If you do not use recommended papers, you may experience copy quality problems, paper jams, or possible component failures.

Refer to the *Recommended Materials List* and the *Color Materials Usage Guide* for more information.

- If you are loading pre-drilled paper, load it into Paper Tray 5 with the undrilled long edge as the leading edge (holes to the left).
- Do not load the paper above the MAX fill line marked on the paper tray edge guides.
- If paper feeding or copy curl problems occur, flip the paper over in the tray and make the copies again. If the performance improves, continue to load the paper in this manner. Testing has shown that paper handling and copy performance vary with room temperature, humidity, paper quality, image area on copies, etc. All of these variables interact and, in some cases, you must decide which paper loading method works best.

## Using transparencies

Transparencies can be run ONLY from Tray 5.

Transparencies with removable lead edge paper stripes are recommended.



**KEY POINT:** Use only the transparencies recommended in the *Recommended Materials List* and the *Color Materials Usage Guide*.

Before you load transparencies, you must determine which side has the white stripe. Use a soft lead pencil to make a small mark on the stripe on each side of the transparency. The side with the darker mark is the stripe side.

Load transparencies with the white stripe side facing down and as the leading edge, as illustrated in Figure 4. (The leading edge is the edge that feeds into the copier/printer first.)

Do not mix transparencies with paper in Tray 5. If you need blank separators between the transparencies, you can program the copier/printer to insert a blank separator by using the Transparency Separator feature on the Output Formats tab. Refer to chapter 7, "Output Formats," for more information.



**KEY POINT:** Follow these guidelines to prevent static build up when using transparencies:

- Place no more than twenty-five 8.5 x 11-inch or A4 transparencies in Paper Tray 5 at one time.
- Place only one 11 x 17 or A3 transparency in Paper Tray 5 at a time.
- Remove the transparencies from the Output or Offset Catch Tray before running additional sets.



**NOTE:** If the copier/printer has a Sorter/Mailbox, the transparency copies are delivered to the Offset Catch Tray. If the copier/printer has a Finisher/Mailbox, the transparency copies are delivered to the Center Output Tray. Transparencies cannot be sorted or stacked in separate bins.



**Figure 4: Loading transparencies in Paper Tray 5**

## Loading paper into trays 1, 2, 3, and 4

1 2 3...

9

1

To load a paper tray, pull the tray out fully, as illustrated in Figure 5.

2

Select the appropriate paper to load.

If you are not sure of the size to load, refer to the Paper Supply feature on the Basic Copying tab to check the size that was previously loaded in the paper tray.

3

Load the desired size paper into the tray, as illustrated in Figure 6.

Do not fill the paper tray above the fill line, illustrated in Figure 6 and Figure 7.



Figure 5: A fully opened Paper Tray

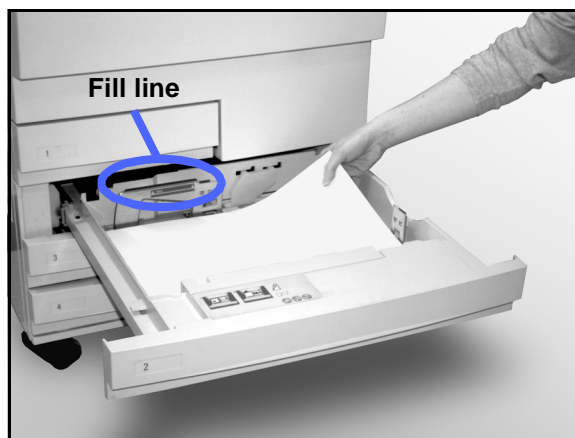
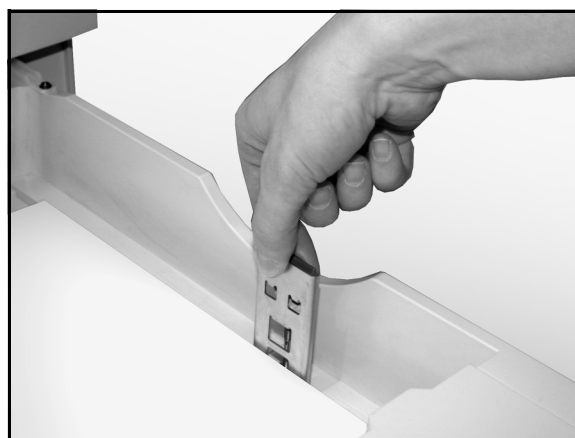


Figure 6: Loading a Paper Tray

- 4** In Paper Trays 2, 3, and 4, straighten the paper stack and adjust the paper guides until they lightly touch the paper. See Figures 7 and 8.



**Figure 7: Adjusting the Rear Paper Guide**



**Figure 8: Adjusting the Right Paper Guide**

- 5** Close the paper tray slowly to avoid shifting the paper stack. This ensures that the paper is in the correct position when the paper tray is in the operating position.

## Loading stock into Paper Tray 5

The number of sheets that can be loaded in Paper Tray 5 (sheet capacity) varies with the weight of the stock. For more information about paper weight and requirements, refer to the *Recommended Materials List* and the *Color Materials Usage Guide*.

Do not load materials above the fill line located on the paper guide.

**KEY POINT:** Because of the paper path design of Paper Tray 5, paper stocks that cause difficulties being fed from Paper Tray 1, 2, 3, or 4 may be fed more reliably from Paper Tray 5.

**NOTE:** Remove all stock from Paper Tray 5 after the job is complete. Dust and moisture can cause copy quality defects.

Do not add paper during a copying job.

- To prevent damage, close Paper Tray 5 when you are not using it.
- If you are loading pre-drilled paper, load it with the undrilled long edge as the leading edge (holes to the left).
- Load letter-head paper face up.
- If you are loading transparencies, load them with the white stripe side facing down and as the leading edge. (The leading edge is the edge that feeds into the copier/printer first.)

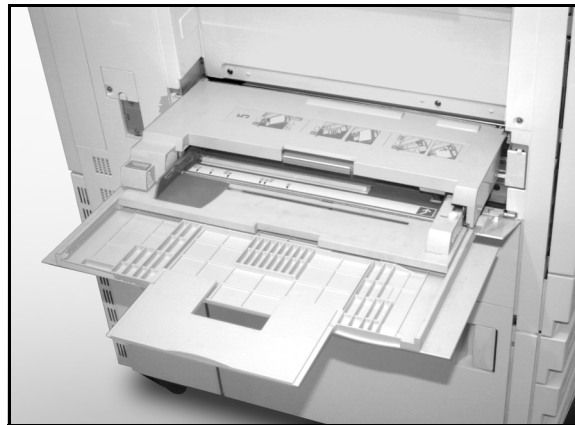


Figure 9: Paper Tray 5





- 1 Open Paper Tray 5 by grasping the cover Tray 5 at the top in the middle and gently pushing it away from the copier/printer and down, as illustrated in Figure 10.



Figure 10: Opening Paper Tray 5

For long paper, extend the tray by grasping the long plastic tab at the left edge (Figure 11) and pulling it to the left as far as possible, as illustrated in Figure 12.

If you do not extend the tray fully, paper jams or copy misregistration may occur.



**CAUTION:** Do not place any objects or materials other than the appropriate stock on Paper Tray 5. Copier/printer damage may occur.



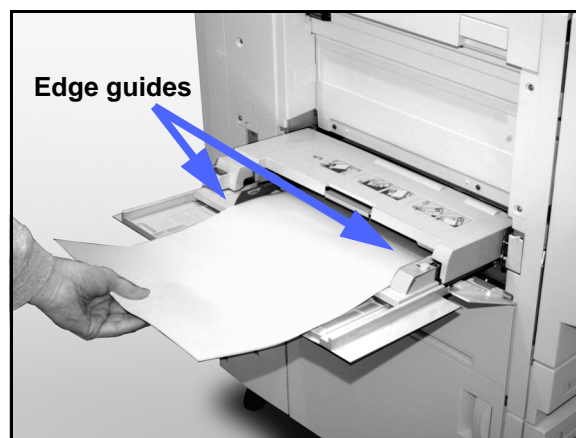
Figure 11: Grasping the Paper Tray 5 tab



Figure 12: Extending Paper Tray 5

**2** Place the stack of materials onto Paper Tray 5 between the edge guides, as illustrated in Figure 13. Slide the stack into the tray until it stops.

**3** Move the back edge guide until it lightly touches the side of the stack of materials. Readjust the left edge guide each time you load materials into Paper Tray 5.



**Figure 13: Loading paper into Paper Tray 5**

**4** Select the appropriate size and type for the stock you have loaded. Refer to “Programming the Paper Supply for Tray 5” for more information.

**5** When you are done using Paper Tray 5, remove all stock and store it appropriately. Close Paper Tray 5 by gently pushing the plastic extensions to the right as far as possible. Push Paper Tray 5 toward the copier/printer until it is securely in place.



**NOTE:** In most cases you will never adjust the front edge guide. Adjust the front edge guide only for 12” x 18” paper.

## Using 12 x 18 inch or SRA3 paper

Use Paper Tray 5 for 12 x 18 inch (305 x 457 mm) or SRA3 (320 x 450 mm) paper.

Refer to the *Recommended Materials List* and the *Color Materials Usage Guide* for more information about the paper you are loading.



### NOTE:

- Remove all stock from Paper Tray 5 after the job is complete. Dust and moisture can cause copy quality defects.
- Do not add paper during a copying job.
- To prevent damage, close Paper Tray 5 when you are not using it.
- The guaranteed image area for the Document Centre ColorSeries 50 is 297 x 438 mm. When copying an 11 x 17 inch (A3) image from the Document Glass, set the Reduce/Enlarge feature to 102% for best results.

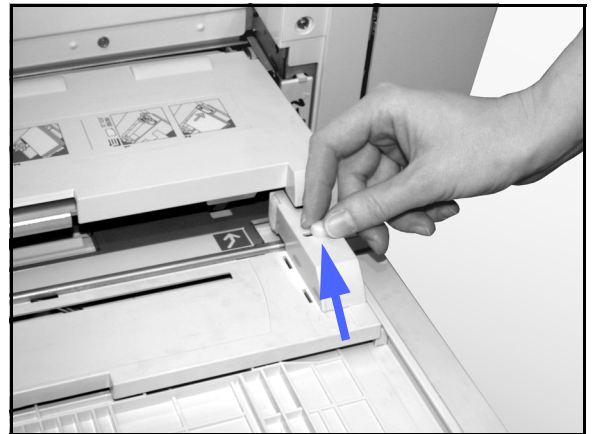
9

1 2 3...

**1** Open Paper Tray 5 and fully extend the tray to place it in the operating position. Refer to the instructions in the previous section, if necessary.

**2** Adjust the front Paper Guide of Paper Tray 5:

1. Unscrew the registration thumb screw, illustrated in Figure 14, on the front side of Paper Tray 5.
2. Lift and reposition the Paper Guide in the slot appropriate for the paper size you are using.
3. Tighten the registration thumb screw.



**Figure 14: Front Paper Guide and registration thumb screw**

- 3** Load up to 100 sheets of 12 x 18 inch (305 x 457 mm) or SRA3 (320 x 457 mm) 20 lb. paper into Paper Tray 5. (Remember that images are copied onto the upper side of the paper.)
- 4** Adjust the back edge guide until it lightly touches the paper.
- 5** Select the appropriate size and type for the stock you have loaded. Refer to “Programming the Paper Supply for Tray 5” for more information.
- 6** When the job is complete, return the paper guides for Paper Tray 5 to their normal position.

## Paper Usage

This section provides a quick summary of useful information about paper for the Document Centre ColorSeries 50 copier/printer.

For additional general information, refer to the *Color Materials Usage Guide*.

For additional specific information regarding materials that have been tested and approved for use in the Document Centre ColorSeries 50, refer to the *Recommended Materials List* and the *Color Materials Usage Guide*. This list is available off the main Xerox web site ([www.xerox.com](http://www.xerox.com)) and will be updated periodically. Contact your Xerox representative for additional details.

Stock is classified according to the following categories:

- Excellent – Provides reliable feeds and optimum copy quality
- Good – Provides less reliable feeds and may result in copy quality degradation
- Not Recommended – Does not feed reliably and/or may cause severe copy quality degradation

For more information about materials that may be fed through all trays, refer to the *Recommended Materials List* and the *Color Materials Usage Guide*.

PAPER	Excellent	Good	Not Recommended
<b>Size</b>	<ul style="list-style-type: none"> <li>• 7.2 x 7.2 to 11 x 17 inches</li> <li>• A4 to A3</li> </ul>	<ul style="list-style-type: none"> <li>• 12 x 18 inches</li> <li>• 4 x 6 inch postcard</li> <li>• SRA3</li> <li>• A6</li> </ul>	<ul style="list-style-type: none"> <li>• Smaller than 7.2 x 7.2 inches</li> <li>• Larger than 12 x 18 inches or SRA3 (320 x 450 mm)</li> <li>• Any sizes between 11 x 17 inches and 12 x 18 inches or between A3 and SRA3</li> </ul>
<b>Capacity</b>	Using Xerox 20 lb (75gsm) or equivalent or Xerox Europe (80gsm): <ul style="list-style-type: none"> <li>• Paper Tray 1: 500 sheets</li> <li>• Paper Trays 2, 3, 4: 550 sheets</li> <li>• Tray 5: 100 sheets</li> </ul>		
<b>Weight</b>	<ul style="list-style-type: none"> <li>• Paper Tray 1: 16 lb to 28 lb Bond (64 gsm to 105 gsm)</li> <li>• Paper Trays 2, 3, 4: 16 lb to 32 lb Bond (64 gsm to 128 gsm)</li> <li>• Paper Tray 5: 16 lb Bond to 140 lb Index (64 gsm to 250 gsm)</li> </ul>		<ul style="list-style-type: none"> <li>• Paper Tray 1: greater than 28 lb (105 gsm)</li> <li>• Paper Trays 2, 3, 4: greater than 32 lb Bond (128 gsm)</li> <li>• Paper Trays 1, 2, 3, 4, 5: less than 16 lb (64 gsm)</li> <li>• Paper Tray 5: greater than 140 lb Index (250 gsm)</li> </ul>
<b>Paper Condition</b>	Undamaged		<ul style="list-style-type: none"> <li>• Damaged or wrinkled paper</li> <li>• Papers with excessive curl</li> <li>• Papers exposed to extreme environmental conditions, such as high humidity or high temperature, for an extended period of time</li> </ul>

Table 1: Paper Usage

PAPER	Excellent	Good	Not Recommended
<b>Paper Type</b>	<ul style="list-style-type: none"> <li>• Xerox Color Xpressions or Xerox Europe Colotech + paper</li> <li>• Xerox 4024 DP or Xerox Europe Premier for black only</li> <li>• Xerox or Xerox Europe recommended transparencies - long edge feed (White stripe: load the white stripe edge face down and as the leading edge from Paper Tray 5 only)</li> <li>• Paper equivalent to recommended papers: white/bright, smooth surface, uncoated, uniform formation (uniform distribution of paper fibers)</li> <li>• Predrilled stock - The copied image MUST NOT extend into the hole area, or copier/printer damage may result. (Load this paper into Tray 5 for best results with holes on the left.)</li> </ul>	<ul style="list-style-type: none"> <li>• Laserprint paper</li> <li>• Xerographic copy paper</li> <li>• Colored paper*</li> <li>• Coated papers</li> </ul>	<ul style="list-style-type: none"> <li>• Paper with poor formation (nonuniform distribution of paper fibers)</li> <li>• Carbonless papers</li> <li>• Clear transparencies (no stripe)</li> <li>• Rough paper</li> <li>• Short edge feed transparencies</li> <li>• Stiff paper (&gt;250 gsm)</li> </ul>

**Table 1: Paper Usage**

\* In general, color paper is recommended for black only.





# 10 Duplex Automatic Document Feeder

## Overview

This chapter describes the Duplex Automatic Document Feeder (DADF), illustrated in Figure 1, for the Document Centre ColorSeries 50 copier/printer.

The DADF automatically feeds up to 50 same size or mixed size documents onto the Document Glass, feeding the top sheet first.



**Figure 1: Document Centre ColorSeries 50 with a Duplex Automatic Document Feeder**

## KEY POINT:



- The copier/printer automatically copies black and white documents in the Black mode and documents with color in the Full Color mode when Auto Output Color is selected.
- If the DADF belt is dirty and the original is a thin or transparent document, background may appear on the output. This may also occur when copies are made using the Document Glass. Place a white sheet of paper of the same size on top of the document being copied to eliminate background until the belt is cleaned.

**NOTE:** Using the DADF, black and white output is produced at 40 copies per minute for 8.5 x 11 inch (A4) paper. For 11 x 17 inch (A3) paper, black and white output is produced at 12 copies per minute.



**NOTE:** For additional information on materials, see the *Recommended Materials List* and the *Color Materials Usage Guide*.



If you use the DADF to input the original documents, the output will be delivered in one of the following ways, assuming a three-page job.

- In a basic, single-copy job, output is delivered face down in 1, 2, 3 order.
- In a multiple-copy job, copies are delivered to the Output Tray, face up, in 3/3/3, 2/2/2, 1/1/1 order.
- In a multiple-copy job using a Sorter/Mailbox, one set of output is delivered, face down, to each of three separate bins in 1, 2, 3 order.



**WARNING:** Never open the cover of the Duplex Automatic Document Feeder while the copier/printer is running. Injury or a document jam may occur.

Never cheat the safety interlock switches. They control the built-in safety features of the feeder.

## Component names and functions

The following items are the principal components of the Duplex Automatic Document Feeder, as illustrated in Figure 2:

**1** Document Feed Lamp

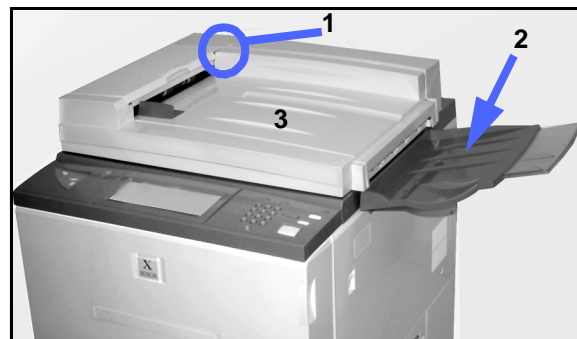
This lamp displays a green arrow when a document is inserted correctly into the feeder. This light can also indicate a document jam.

**2** Document Feeder Output Tray

Original Documents are delivered to this tray.

**3** Duplex Automatic Document Feeder Tray

Place documents here to start copying.



**Figure 2: Duplex Automatic Document Feeder components**

## Document path

Documents placed on the Duplex Automatic Document Feeder Tray are fed directly onto the Document Glass in top-to-bottom order.

Copies are delivered to the Document Output Tray, in order and face down.

## *Document specifications*

Always use the recommended types of input documents so that the Duplex Automatic Document Feeder operates within the design specifications. Document jams may occur if non-standard documents are used, resulting in damaged documents.

### *Standard DADF document specifications*

- Weight – The document weight should be from 16 lb to 32 lb (64 to 128 gsm).
- Size
  - North and South America  
8.5 x 5.5 inches, 8.5 x 11 inches, 8.5 x 14 inches, 11 x 17 inches, A4.
  - European market  
A5, A4, A3, 8.5 x 13 inches, 8.5 x 14 inches, 8.5 x 11 inches, 11 x 17 inches.

If the DADF senses non-standard size documents in the feeder, a message displays and the copier/printer stops. Place such non-standard documents on the Document Glass, or enter the document size by using the Original Size feature in the Added Features tab. Refer to chapter 5, “Added Features,” for more information.

If the input document is slightly smaller or larger than a standard size document, the Duplex Automatic Document Feeder may detect it as a standard size document. Dark areas or image loss along the edges may occur. Enter the document size by using the Original Size feature or the Edge Erase feature in the Added Features tab. Refer to chapter 5, “Added Features,” for more information.

## *Documents not recommended*



The following document types cause document jams or malfunction of the copier/printer. Make copies of these documents by placing them directly onto the Document Glass.

- Book, pamphlet, and booklet documents
- Broken, creased, or paste-up documents
- Documents with clips and staples
- Transparent documents (the document size cannot be detected automatically or the DADF belt is copied)
- Documents with black carbon
- Documents smaller than A5 size (8.5 x 5.5 inches)
- Paper weight heavier than 32 lb (128 gsm)

## Loading the documents

You can load up to 50 documents from 16 lb. (64 gsm) to 32 lb. (128 gsm) into the DADF.

1 2 3...

- 1 Remove any paper clips or staples from the documents. Align the documents.
- 2 Place the documents face up onto the DADF Tray, as illustrated in Figure 3. Slide the documents to the left until the green Document Feed Lamp lights.

If the lamp does not light, readjust the alignment and/or the placement of the documents until the lamp lights.

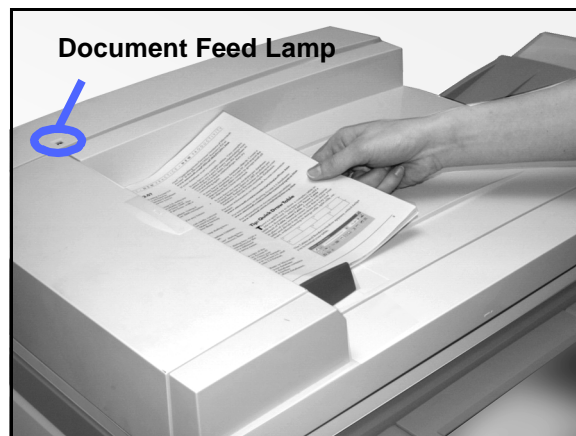


Figure 3: Placing documents in the DADF tray

- 3 Slide the document guide toward the stack of documents until the guide lightly touches the side edges of the documents, as illustrated in Figure 4. If the document guide is set too tight, the documents may not feed or may become damaged. If the guide is set too loose, the documents may skew as they feed, which could cause a document jam.



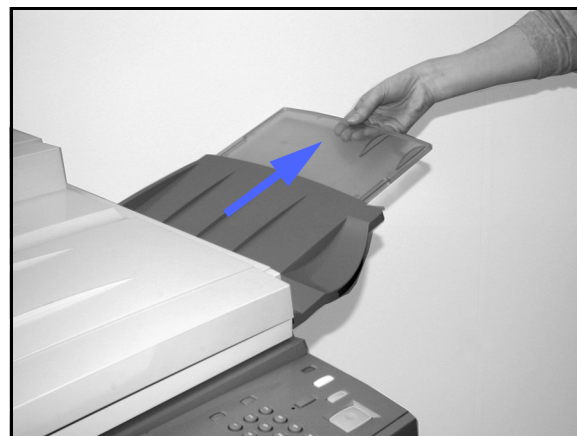
Figure 4: Adjusting the document guide



- 4 Extend the DADF Output Tray to accommodate the size of the documents, as illustrated in Figure 5.

- 5 Press the **Start** button.

The documents automatically feed one by one, onto the Document Glass. The feeding begins from the top of the stack of documents.



**Figure 5: Extending the DADF Output Tray**

## Clearing a document jam

When a document jam occurs in the Duplex Automatic Document Feeder, the Document Feed Lamp (Figure 6) lights and instructions for clearing the jam appear on the screen display.

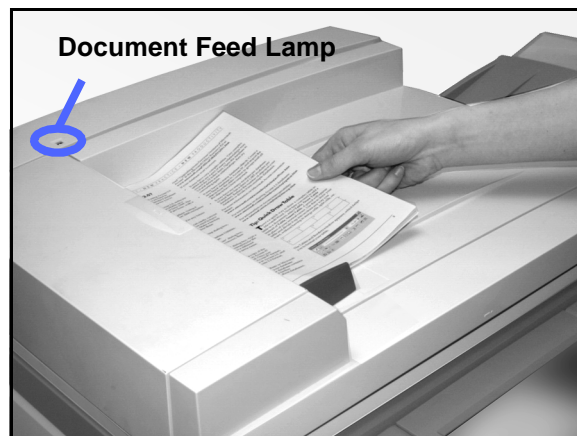


Figure 6: Document Feed Lamp

1 2 3...

10

- 1 Open the Left Cover by lifting it to the left and open the Document Chute, as illustrated in Figure 7.
- 2 Remove the jammed documents. Check for and remove any torn pieces of paper.

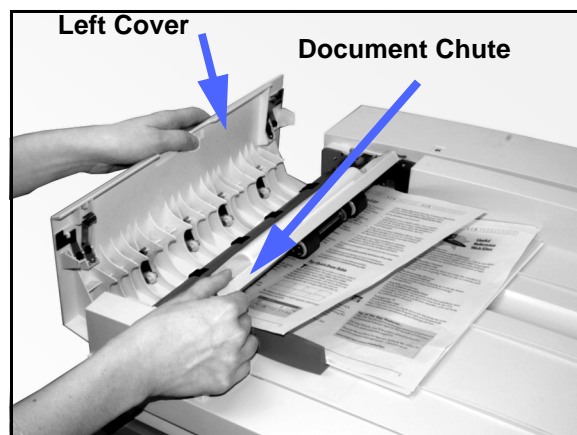
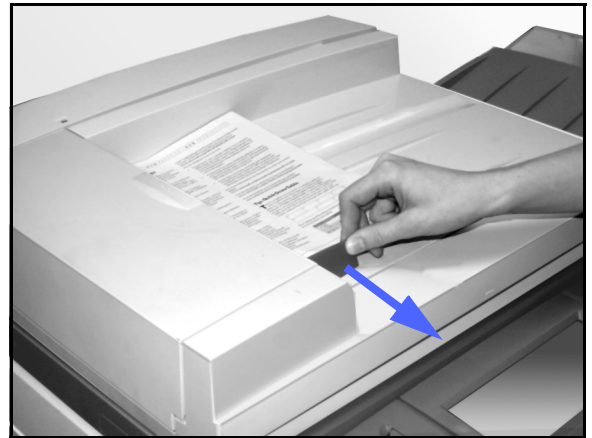


Figure 7: Opening the Left Cover and the Document Chute

- 3** Close the Document Chute and lower the Left Cover.
- 4** Slide the Document Guide away from the stack of documents, as illustrated in Figure 8. Remove the documents from the Document Feeder Tray.



**Figure 8: Sliding the Document Guide**

- 5** Raise the DADF and remove any documents from the Document Glass, as illustrated in Figure 9.
- 6** Remove any paper that is jammed in the DADF belt, as illustrated in Figure 10.
- 7** Close the DADF.



**Figure 9: Raising the DADF**



**Figure 10: Removing jammed paper**

- 8** Check the documents for damage, creases, and/or folds before reloading them into the Document Feeder Tray.

A torn, creased, or folded document can cause a document jam.



**KEY POINT:** If a document is damaged, you may have to use Interrupt mode to make a copy from the Document Glass. You can then return to the original job and use the copy instead of the damaged document in the stack of documents you are copying.

- 9** Check the message on the screen to ensure that all jams have been cleared.

- 10** Reload the stack of documents into the Duplex Automatic Document Feeder according to the instructions on the Touch Screen. Reposition the document guide.

- 11** Press the **Start** button to restart your copy job.

# 11 Sorter/Mailbox

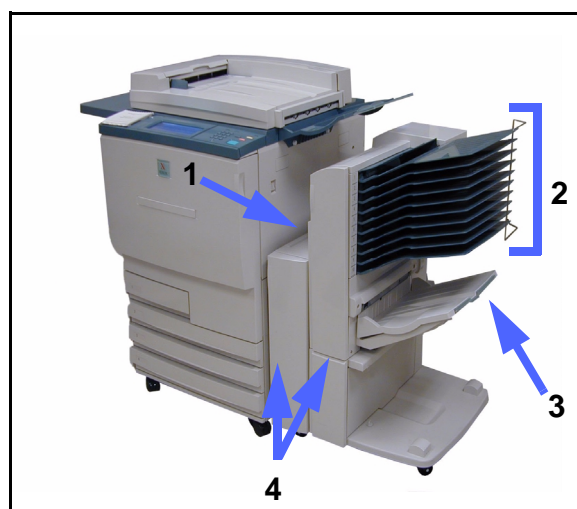
## Overview

The Document Centre ColorSeries 50 copier/printer may be equipped with an optional Sorter/Mailbox, as illustrated in Figure 1. The Sorter/Mailbox contains the following components:

- 1 Sorter/Mailbox Release Lever
- 2 Sorter/Mailbox Bins: Copies are delivered here in the Sort or Stack Mode.
- 3 Offset Catch Tray (OCT): Output is delivered here when you select the Offset Catch Tray.

When the unit is run in copier mode, the Offset Catch Tray acts as a high capacity catch tray and does not offset output.

- 4 Right and Left Front Doors: Open these doors to clear paper jams.



**Figure 1: Document Centre ColorSeries 50 with Sorter/Mailbox**



**WARNING:** Do not place your fingers between the Bins while the Sorter/Mailbox is in operation.



**WARNING:** Never cheat the safety interlock switch. Injury or a document jam may occur.

The safety interlock switch shuts off the Sorter/Mailbox power when you open the front doors or when you move the Sorter/Mailbox to the right to clear a paper jam.

## Using the Sorter/Mailbox

The optional Sorter/Mailbox performs like a sorter or mailbox for the Document Centre ColorSeries 50 copier/printer configuration. Contact your Xerox representative to change functionality.

When you use the optional Sorter/Mailbox, copies are delivered to the Sorter/Mailbox Bins or the Offset Catch Tray in one of the following ways:

- Collated

Copies are sorted in the Sorter/Mailbox Bins with one set of output delivered face down to each required bin in the same sequence as the original documents.

For example, in a three-page job where 3 sets are requested, one set of output is delivered, face down, to each of three separate bins in 1, 2, 3 order.

- Uncollated

Copies are stacked together in the Sorter/Mailbox Bins according to the page numbers of the documents.

For example, in a three-page job where 3 sets are requested, one set of output is delivered, face down, in 1, 1, 1 / 2, 2, 2 / 3, 3, 3 order.

Each Sorter/Mailbox bin can hold up to 100 copies of 20 lb (75 gsm) paper.

The Sorter/Mailbox can accept paper sizes from 8.5 x 11 inches (A4) to 11 x 17 inches (A3).

If you copy onto transparencies using Paper Tray 5, the copies and separators are delivered to the Offset Catch Tray.

**NOTE:**



- Any job that uses Paper Tray 5 is always delivered to the Offset Catch Tray.
- The number of collated sets is limited to 10, the number of bins.



## Clearing a paper jam

When a paper jam occurs, a paper jam message and instructions for clearing the paper jam display on the screen.



**KEY POINT:** Remove the jammed paper carefully and gradually so you do not tear it. If the jammed paper tears, be sure to remove all the torn pieces.

1 2 3...

- 1 Push the Sorter/Mailbox release lever toward the Sorter/Mailbox and pull the unit to the right, away from the copier/printer, as illustrated in Figure 2.



Figure 2: Sorter/Mailbox Release Lever

- 2 Remove any paper that is caught in the interface between the copier/printer Right Door and Sorter/Mailbox, as illustrated in Figure 3.



Figure 3: Removing paper from the interface area

**3** If the jam is behind the Left Front Door of the Sorter/Mailbox:

1. Open the Left Front Door (Figure 4).
2. Push the green handle (5) down, as illustrated in Figure 4, to release the baffle. Rotate the knob (6) to release any jammed paper.
3. Remove the jammed paper gently.
4. Lift the handle to secure the baffle.
5. Close the Left Front Door.

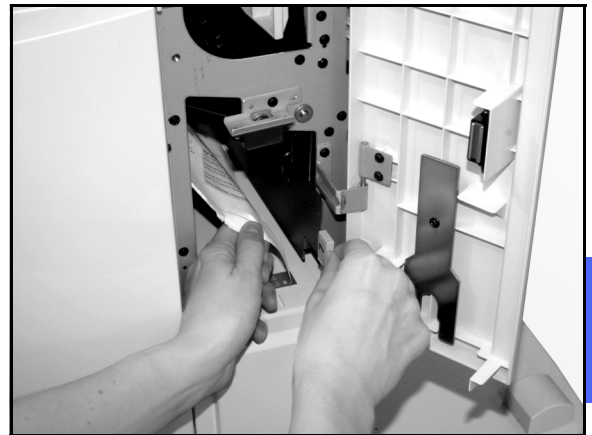


**Figure 4: Behind the Left Front Door**

- 4** If the jam is behind the Right Front Door of the Sorter/Mailbox:
1. Open the Right Front Door.
  2. Push the upper handle (8) to the left to open the transport area (Figure 5). Remove any jammed paper.
  3. Push the handle to the right and secure in place.
  4. Push the green handle (7) down to release the baffle (Figure 6). Remove any jammed paper gently.
  5. Lift the handle to secure the baffle.
  6. Close the Right Front Door.
- 5** Remove any jammed paper that may be exiting the machine and push the Sorter/Mailbox back into place.
- 6** Continue your copy job if a message on the screen directs you to press **Start** to continue.
- If the Paper jam message reappears, repeat the preceding steps to clear a remaining paper jam.



**Figure 5: Behind the Right Front Door**



**Figure 6: Behind the Right Front Door (lower portion)**



# 12 Accessories

## Overview

This chapter will provide you with an introduction to the different accessories that accompany your Document Centre ColorSeries 50. These accessories include the optional High Capacity Feeder and the standard Convenience Stapler (Figure 1).



**Figure 1: Document Centre ColorSeries 50 with High Capacity Feeder and Convenience Stapler attached**

### *High Capacity Feeder*

The High Capacity Feeder enables you to load a large quantity of paper into your printer. It connects to the left side of the printer (Figure 2). Although labeled Tray 6, the High Capacity Feeder is referred to as the HCF.



**Figure 2: Document Centre ColorSeries 50 with High Capacity Feeder attached**

### *Convenience Stapler*

Use the Convenience Stapler for re-stapling your original documents after copies have been made or as an off-line stapler. It attaches to the back left corner of your Document Centre ColorSeries 50 Copier/Printer work surface (Figure 3).



**Figure 3: Document Centre ColorSeries 50 with Convenience Stapler attached**

## High Capacity Feeder

The HCF can be attached to and used with your Document Centre ColorSeries 50 Copier/Printer.

### Acceptable media

The HCF can feed paper from 16 lb. (64 gsm) – 28 lb. (105 gsm). It can hold a maximum of 2000 sheets of 20 lb. (80 gsm) paper.

The paper may be either 8.5 in. x 11 in. or A4 long edge feed (LEF). Use the Paper Guide in the back of the paper tray to adjust to the required size. Refer to the *Recommended Materials List* and the *Color Materials Usage Guide* for more detailed information.

### Loading paper

You can add paper to the HCF while printing from any other tray. (Check the Touch Screen to see what tray is in use to determine if the HCF is available for loading.) When you close the HCF paper drawer, the tray does not elevate immediately, but waits for the copier/printer to finish the current job.

1 2 3...

1

Grasp the handle on the front of the HCF and pull the paper tray open (Figure 4).

The elevator in the HCF lowers to the bottom of the tray.



12

Figure 4: Opening the HCF tray

**2** If you are changing paper sizes, perform the following:

a. Remove all paper in the tray.



**CAUTION:** Handle the paper and the Paper Guide carefully so you do not break the black plastic sensor actuators on the guide.

b. Remove the metal Paper Guide by pulling it straight up (Figure 5).

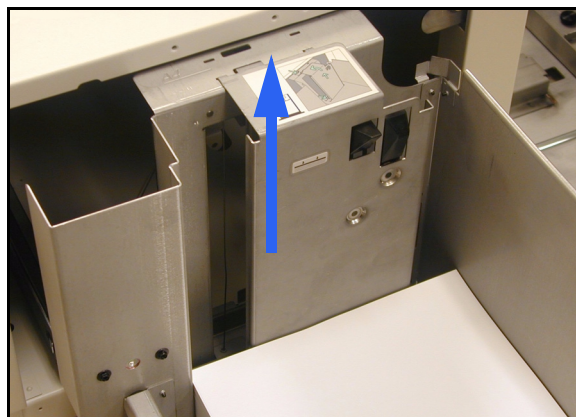
c. Align the tabs on the bottom and top of the guide with the slots on the bottom and top of the tray for the new size. Push the guide firmly into the slots until it is secure.

**3** Load the paper. Ensure that the paper is aligned evenly and tightly against the right side of the tray.

**4** Close the HCF paper tray.

When you close the HCF, the elevator rises and positions the paper for use.

**5** If you are in printer mode and the HCF is set as your default paper tray, change the necessary printer drivers options at the client workstation.



**Figure 5: The HCF Paper Guide**



## Clearing an HCF paper jam

1 2 3...

- 1 Follow the Touch Screen messages in order to clear the jam.
- 2 Slide the HCF away from the printer (Figure 6).
- 3 Remove any partially fed paper from the exit area on the HCF and the entry to the copier/printer.



**KEY POINT:** It is important to remove jammed paper from the exit area of the HCF before opening the HCF paper tray. Partially fed paper may tear when you open the HCF and be difficult to remove.

- 4 After you have cleared the jam, grasp the handle on the front of the HCF paper tray and pull to open (Figure 4). Remove any wrinkled or damaged paper from the paper stack.
- 5 Close the paper tray and slide the HCF to the right, into position against the printer.

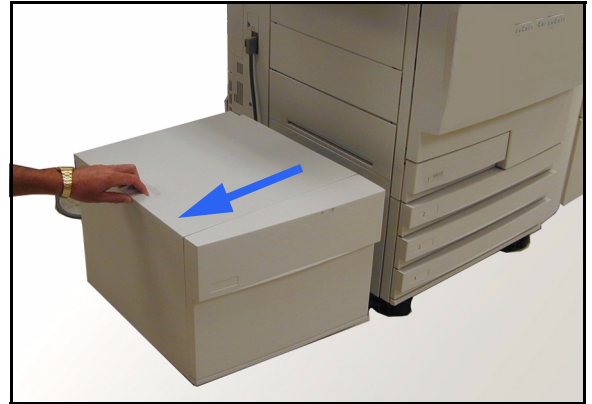


Figure 6: Moving the HCF from the printer

## Accessing the HCF from the client workstation

From the client workstation, you should add the HCF to the available device options.

This procedure must be repeated at each client workstation.

Even when the HCF is installed, you should use **AutoSelectTray** as the default tray. The printer will automatically select the HCF for the job if it contains the requested paper.

You can also check the Status of the HCF from the web client, as you can for any other paper tray.

### Windows 98/95

1 2 3...

- 1 From the **Start** menu, select **Settings**, then **Printers**, and the desired printer.
- 2 From the **File** menu, select **Properties**.
- 3 Select the **Device Options** tab.
- 4 From the Installable options scroll menu, select **Tray 6 (High Capacity Feeder)**.
- 5 From the "Change setting for Tray 6 (High Capacity Feeder)" menu, select **Installed**.
- 6 Click **OK** and close the **Printers** window.

## Windows NT



**NOTE:** You may need System Administrator privileges to perform the following procedure.

1 2 3...

- 1** From the **Start** menu, select **Settings**, then **Printers**, and the desired printer.
- 2** From the **File** menu, select **Properties**.
- 3** Select the **Device Settings** tab.
- 4** Scroll through the list and highlight **Tray 6 (High Capacity Feeder)**.
- 5** From the “Change Tray 6 (High Capacity Feeder) setting” menu, select **Installed**.
- 6** Click **OK** and close the **Printers** window.

1 2 3...

- 1 From the Apple menu, select **Chooser**.
- 2 In the Chooser, select **Adobe PS**.
- 3 In the Select PS Printer dialog box, highlight the name of the desired printer and select **Setup**.



**NOTE:** If a .ppd file has already been associated with the printer, go to step 7.

- 4 Browse for one of the following files:
  - **Splash G610-Document Centre ColorSeries 50**
  - **Splash G610-Document Centre ColorSeries 50PM**
  - **Fiery XP12 Color Server PS**
  - **Fiery X12 Color Server PS**

- 5 Highlight the desired file and click **Select**.

- 6 In the Chooser, select **Setup**.

A list of options displays.

- 7 Select **Configure**.

- 8 At the High Capacity Feeder option, select **Installed**, and then select **OK**.

- 9 Click **OK** and close the Chooser.

## Convenience Stapler

The Convenience Stapler is a standard accessory provided with your Document Centre ColorSeries 50 Copier/Printer. The Convenience Stapler unit includes the stapler as well as a holder for used staples and stationary supplies.

The Stapler plugs in at the lower right side toward the rear of the copier/printer (Figure 7).

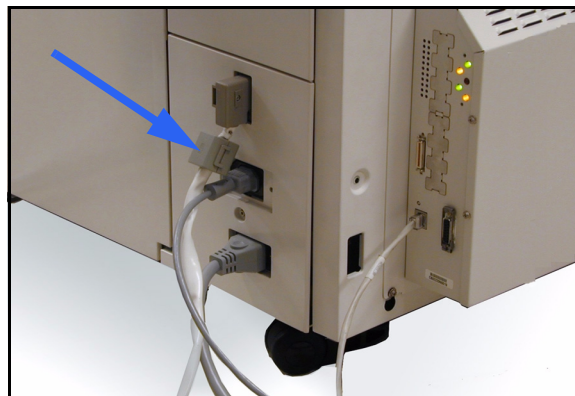


Figure 7: The Stapler power cord

### Indicator lights

Indicator lights (Figure 8) signify the status of the stapler:

- When the green “ready” light is lit, the staple cartridge has more than 20 staples available and is ready to staple.
- When the red light is on, the staple cartridge has fewer than 20 staples available and should be replaced.
- When the green and red lights are off, a jam has occurred or the stapler is unplugged.

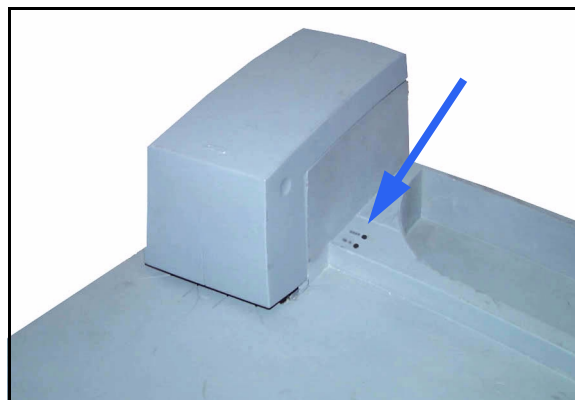


Figure 8: Indicator Lights

### *Acceptable media*

The convenience stapler can staple up to 50 sheets of paper up to 24 lbs. and 90 gsm.

For equivalent paper types and weights, refer to the *Recommended Materials List* and the *Color Materials Usage Guide* for this product.

### *Ordering staple cartridges*

The stapler contains a cartridge that holds 5000 staples and is easily replaceable.

The cartridge re-order number is **108R00152**.

Call the numbers listed below for consumable supplies:

US: 1-800-822-2200

Canada: 1-800-668-0199

Canada (French): 1-800-668-0133

Europe: \_\_\_\_\_

Latin America: \_\_\_\_\_

## Using the stapler

1 2 3...

- 1 Ensure that you have no more than 50 sheets of 24 lb. paper. Align all sheets to the edge you want to staple.
- 2 Slide the set under the staple head using the diagonal or straight marks on the stapler base as a guide. These diagonal or straight marks are the paper guides (Figure 9).
  - When the set is inserted into the stapler, a switch activates the stapling action automatically.
  - Remove and reinsert the set if another staple is required.

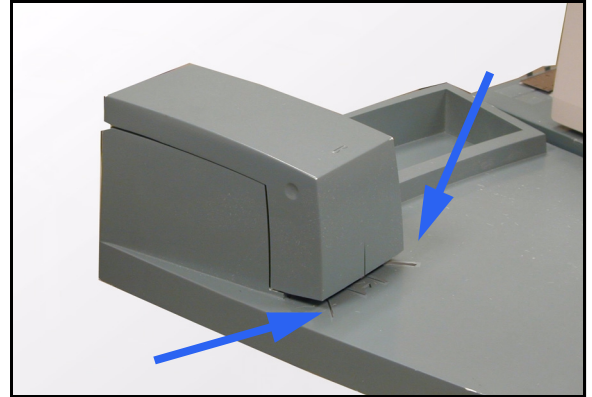


Figure 9: Paper Guides

## Adding staples

1 2 3...

- 1** Open the stapler by grasping the cover at the two indentations on the upper right and left side and pulling it straight up and back (Figure 10).
- 2** Pull the empty cartridge out by holding the gold tabs and pulling the cartridge straight out (Figure 11). Dispose of the cartridge according to local regulations.
- 3** Align the new cartridge so that the metal arms of the stapler fit between the staples and the bottom edge of the cartridge.
- 4** Push the cartridge firmly to the back until the cartridge clicks into place.
- 5** Close the cover by moving it down until it clicks closed.

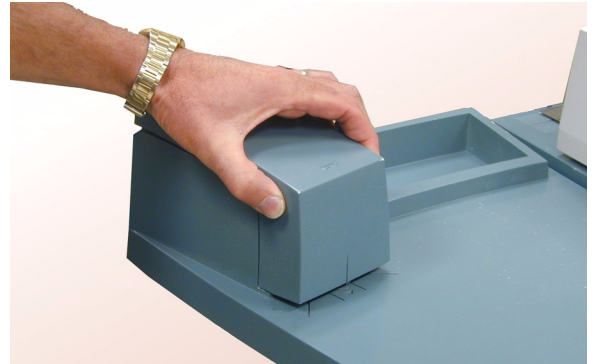


Figure 10: Opening the stapler



Figure 11: Pulling the cartridge out



## Clearing a stapler jam

1 2 3...

- 1 For a simple jam, remove the set with the jammed staples from the stapler. Insert a sheet under the staple head to cause the stapler to eject the jammed staple.
- 2 If the set itself is jammed, remove the staple cartridge, as described in the “Adding Staples” section. Then pull out the jammed set.

Clear the jammed staple and reinsert the cartridge or insert a new cartridge.

## Troubleshooting

If you suspect a problem with the Convenience Stapler, perform the following steps in the order listed.

1 2 3...

- 1 Ensure that the stapler cover is completely closed.
- 2 Check the power cord and power switch on the printer/copier to ensure that it is plugged in and powered on.
- 3 Check the power cord for the stapler to ensure that it is plugged in (Figure 7).
- 4 Perform the procedure for “Clearing a stapler jam” found earlier in this chapter.
- 5 If the stapler is still not operating correctly, call for assistance.



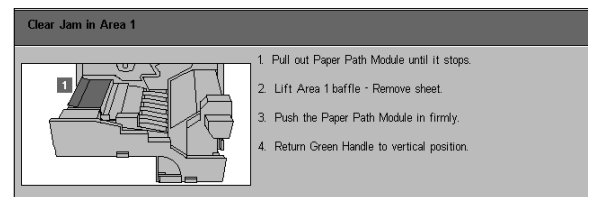
# 13 Problem Solving

## Overview

The Document Centre ColorSeries 50 copier/printer is designed to help you find and solve problems as they happen. The copier/printer can detect problems and display the corrective action on the screen, as illustrated in Figure 1. If the instructions for solving a particular problem are not displayed on the screen, refer to the tables on the following pages to help resolve the problem.

This chapter describes the copier/printer faults and how to perform the appropriate recovery procedures.

Sometimes, you may not succeed in your efforts to clear a fault. When this happens, you should call the Xerox Customer Support Center. Before calling for assistance, perform the steps provided on the following pages.



**Figure 1: A typical fault screen**

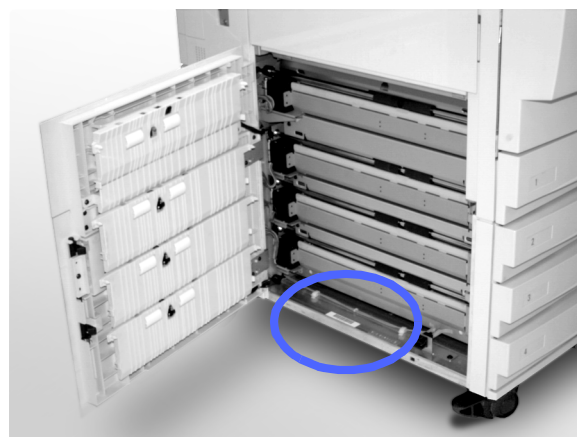
**1** With the power on and the copier/printer in a fault condition, press the **Stop** button on the Control Panel.

**2** Record the following information so that you can provide it to the Xerox representative at the support center:

- With the Stop button depressed, record the displayed Fault Codes.
- Record the Machine Serial Number from the label on the inside lower left cover of the copier/printer (Figure 2). The number may also have been recorded on the inside front cover of this manual.

If the problems are copy quality problems, save the defective copies for the Xerox service representative to examine.

For Document Centre ColorSeries 50 applications support, user help, and service support, call the Xerox Customer Support Center.



**Figure 2: Machine Serial Number location**

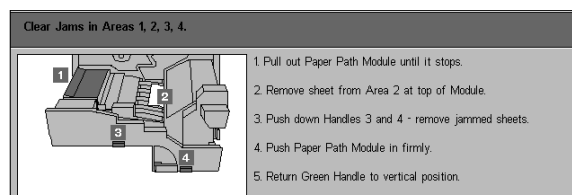
## Paper Jam Clearance

Paper may jam in several areas inside the copier/printer:

- Behind the Left Door
- Behind the Right Door
- Behind the Front Door
- In the Duplex Path
- In the output area, that is, near the Output Tray (or the Sorter/Mailbox)
- Near the paper exit for Paper Tray 5

When a paper jam occurs, a message displays in the message area of the Touch Screen with the corrective actions to take, as illustrated in Figure 3.

Occasionally, simultaneous paper jams occur or multiple sheets of paper jam during an extended copy job. The copier/printer will display a paper jam message until all paper jams are cleared. The Touch Screen displays the appropriate message for the area of the copier/printer that needs to be checked to clear a jam.



**Figure 3: A typical fault screen**



**KEY POINT:** Gradually remove the jammed paper so you do not rip it. If the jammed paper rips, be sure to remove all of the pieces.

The action required to clear a paper jam varies with the location of the jam. Clearance procedures for each of these areas are provided in the sections that follow.

Occasionally, you may have to follow more than one clearance procedure to clear the paper path completely. If so, begin at the sides of the copier/printer and then clear the jam from the front.

Read the instructions and carefully follow the steps in the order given. If you do not follow the instructions sequentially, the copier/printer may be subject to more complex paper jams.

When the jam is cleared successfully and all doors are closed, the Touch Screen will display a message telling you to continue or change the job.

### *Preventing paper jams*

To prevent paper jams:

- Ensure that the paper you use is not damaged. Dispose of any damaged paper.
- Ensure that you position the paper guides lightly against the paper.

If jams persist:

- Invert the paper stack in the appropriate paper tray. Excessive curl of the paper sometimes causes paper jams.
- Load freshly opened paper into the appropriate paper tray. If the paper jams cease, dispose of the paper that caused the jams.

## Paper jam behind the Left Door



**NOTE:** Paper that is partially out of the copier/printer may become more severely jammed if it is not removed before you open the Paper Path Module. Ensure that all paper is cleared from this area, especially paper that is positioned between the paper trays and the Paper Path Module Registration area.

1 2 3...

**1** When the Touch Screen displays a message indicating a jam behind the Left Door, perform one of the following:

- If a paper jam occurs from Paper Trays 1, 2, 3, or 4, open the side panel in the Left Door and carefully remove the jammed paper, as illustrated in Figure 4.

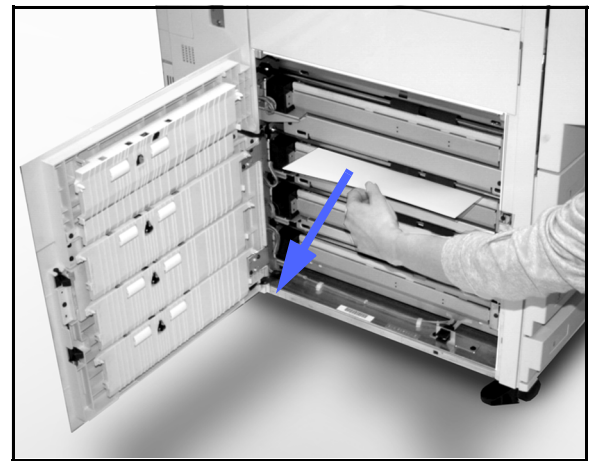


Figure 4: Clearing a jam from the left side

- If a paper jam occurs near Paper Tray 5, lift the release lever on Paper Tray 5 and open the panel, as illustrated in Figure 5.

**2** Close all open panels.

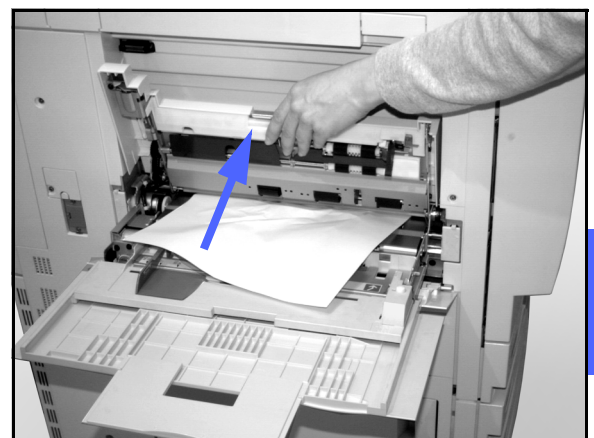


Figure 5: Opening the Paper Tray 5 Panel

## Paper jam behind the Right Door

1 2 3...

- 1 When the Touch Screen displays a message indicating a jam behind the Right Door, if there is a Sorter/Mailbox, push down on the release lever, as illustrated in Figure 6, and push the Sorter/Mailbox away from the copier/printer.



**Figure 6: The Sorter/Mailbox release lever**

- 2 Open the Right Door, as illustrated in Figure 7.



**Figure 7: Opening the Right Door**

- 3 Remove all paper that is visible in the area.
- 4 Close the Right Door.

If there is a Sorter/Mailbox, push the Sorter/Mailbox back into place.



## Paper jam behind the Front Door

1 2 3...

- 1 When the Touch Screen displays a message indicating a jam behind the Front Door, open the Front Door, as illustrated in Figure 8.



Figure 8: Opening the Front Door

- 2 Rotate the green handle clockwise, as illustrated in Figure 9, and pull out the Paper Path Module until it is fully open.
- 3 Check the Touch Screen for a new message indicating the area of the jam.



**KEY POINT:** Check and clear all jams in the Paper Path Module before closing the module.

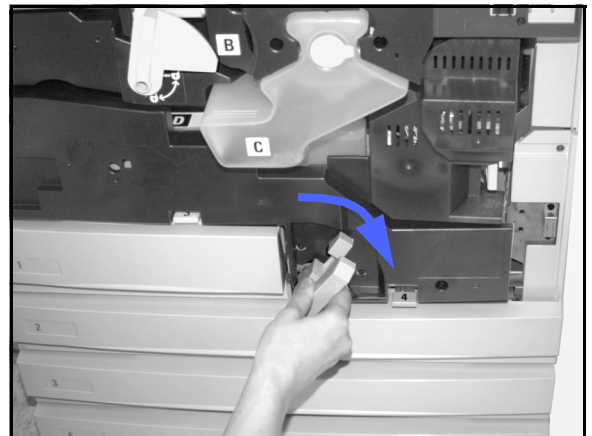


Figure 9: Rotating the green handle clockwise

4

In the Registration area, lift the baffle marked 1 and carefully remove the jammed paper, as illustrated in Figure 10. Press the baffle gently back into place.



**NOTE:** If transparency jams occur in this area, check Paper Tray 5 to ensure that the transparencies are loaded with the white stripe down.

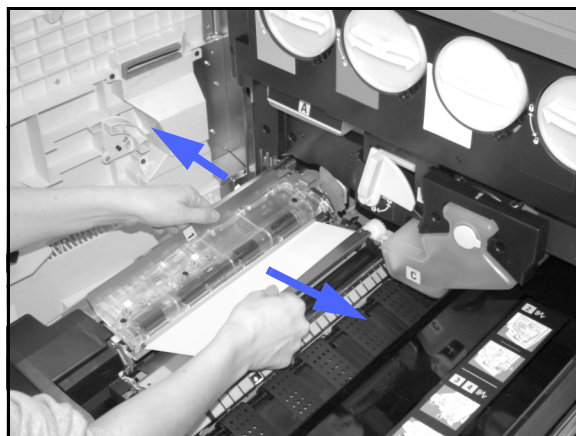


Figure 10: Area 1 in the Registration area



**WARNING:** The fuser area is very hot. Be careful when clearing a jam in this area.



**WARNING:** Fuser oil can irritate your eyes. Wash your hands thoroughly with soap and water and avoid touching your eyes if your fingers are contaminated with fuser oil.

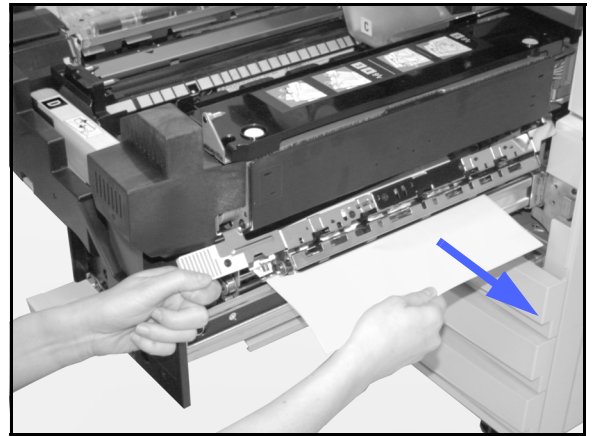
5

In Fuser area 2, carefully pull any paper in the entry area to the left, as illustrated in Figure 11.



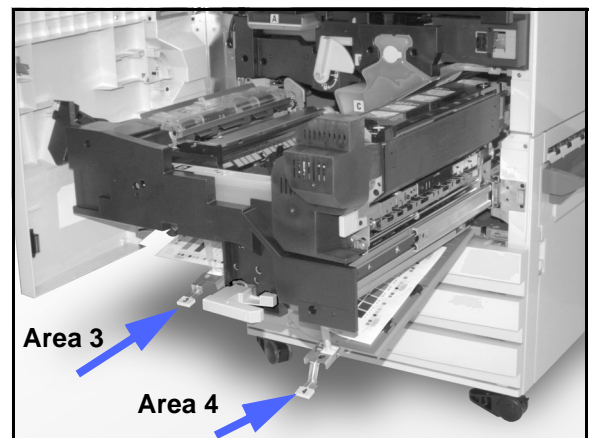
Figure 11: Fuser Area 2

If the paper jam is in the Fuser Exit area, locate the Fuser Exit Area handle at the right of the Paper Path Module, as illustrated in Figure 12. Move the handle to the right and carefully remove the jammed paper. Gently secure the handle back into place.



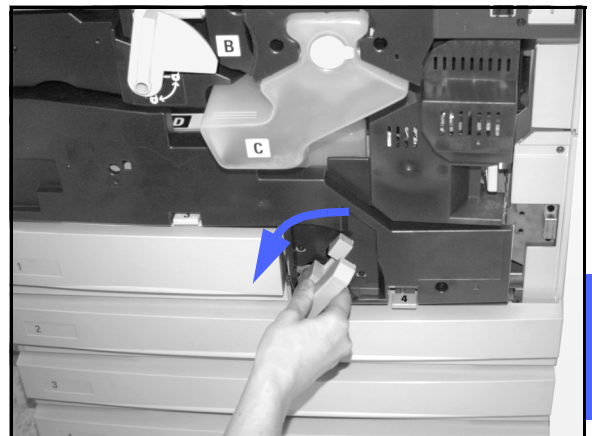
**Figure 12: Fuser Exit area**

- 6** In the Duplex Path, areas 3 and 4, press the handles down gently to release the Aligner Baffle (left handle) and Duplex In baffle (right handle), as illustrated in Figure 13.
- 7** Remove the jammed paper and secure the handles back in place.



**Figure 13: Duplex Path Areas**

- 8** Firmly push in the Paper Path Module until it is in place. Turn the green handle counterclockwise to lock the module, as illustrated in Figure 14.



**Figure 14: Rotating the green handle counterclockwise**

## *Paper jam inside a paper tray*

Paper that is partially out of the paper tray when the paper tray is opened can cause more complex jams by tearing. The torn pieces may become jammed in areas that you cannot reach.

1 2 3...

- 1** Use the message that displays on the Touch Screen to locate the paper jam.
- 2** Use the previous procedures to clear any paper that is behind the Left or Right Door of the copier/printer.
- 3** Slowly open the appropriate paper tray.

If you hear the sound of tearing or crumpling paper, stop opening the paper tray.

Attempt to grasp and remove the paper that is being damaged without opening the paper tray farther.

If you cannot grasp the paper, carefully open the paper tray farther and attempt to grasp the damaged paper again.

- 4** Remove all of the damaged paper, as illustrated in Figure 15.
- 5** Readjust the paper stack in the paper tray to the proper position. Make sure that the paper stack height does not cover the MAX fill line on the paper tray.
- 6** Adjust the edge guides so they are lightly touching the paper.
- 7** Close the paper tray slowly to avoid shifting the paper stack.



**Figure 15: Clearing a Paper Jam inside a Paper Tray**

## Paper jam inside Paper Tray 5

1 2 3...

- 1 Use the message that displays on the Touch Screen to locate the paper jam.
- 2 If necessary, grasp the center top handle and raise the top of Paper Tray 5 toward the copier/ printer to access the jam, as illustrated in Figure 16 and Figure 17.
- 3 Remove all of the visible jammed paper, including any partially fed sheets.

If you cannot grasp all of the jammed paper at the entrance of Paper Tray 5, open the Front Door and follow the procedure, "Paper jam behind the Front Door," found in this chapter.

After you have cleared all of the paper jams, grasp the center top handle and lower the top of Paper Tray 5. Readjust the paper stack and the paper guide in Paper Tray 5.

### KEY POINT:

- Move the edge guide so it lightly touches the paper stack. Adjust the edge guide each time you load paper into Paper Tray 5.
- If Paper Tray 5 is not fully extended, paper jams or misregistration may occur.



Figure 16: Grasping the top of Paper Tray 5



Figure 17: Lifting the top of Paper Tray 5

## Resolving hardware problems



**WARNING:** When clearing the paper path in the Fuser area (located in the Paper Path Module), remember that the surfaces are hot. To avoid injury, proceed with caution when clearing the path.

Problem	Suggested Solution
<p>Dry Ink Cartridge:</p> <ul style="list-style-type: none"> <li>• Operator cannot reinsert a partially full dry ink cartridge after it has been removed.</li> <li>• Operator mistakenly removed the wrong dry ink cartridge and wishes to reinsert it.</li> </ul>	<p>Reinstall the dry ink cartridge using the following procedure:</p> <p>NOTE: The following procedure may result in dry ink spillage on the floor. To protect the floor, put a disposable covering or drop cloth beneath and in front of the copier/printer.</p> <ul style="list-style-type: none"> <li>• Reinstall the used and partially full dry ink cartridge by pushing in the cartridge until it is fully seated against the rear stop. Rotate the cartridge in the direction indicated on the label located on the copier/printer. For more information, refer to the <i>System Administration Guide</i>, chapter 4, "Maintenance."</li> <li>• Inform the Xerox service representative at the next service call about the above action since he or she may need to clean up the dry ink on internal copier/printer components.</li> </ul>
<p>Electrical power to the copier/printer appears to be off even though the Main Power Switch is on, and the power outlet to the copier/printer is operational.</p>	<p>The copier/printer is equipped with an additional safety feature to provide protection in the event of an incorrectly wired electrical supply to the copier/printer. This device, a Ground Fault Protector (GFP), cuts off all power to the copier/printer if an electrical fault is detected. If there appears to be no power to the copier/printer, determine if the switch on the GFP has been tripped. The GFP is located on the lower rear panel of the copier/printer. If the switch is in the off position (down), the GFP has been activated. Flip the switch up and determine if electrical power has been restored. If power is restored, continue to operate the copier/printer normally. If the GFP reactivates, call your representative. Refer to chapter 2, "Getting to know your Document Centre ColorSeries 50," for additional information.</p>



## Resolving programming problems

Problem	Suggested Solution
The Control Panel Touch Screen does not respond to a touch command.	<p>Press Clear All on the Control panel.</p> <p>Touch a selectable button on the Touch Screen with one finger. A slight pressure is required to cause the copier/printer to react.</p> <p>If the problem persists, open the Front Door of the copier/printer. Close the Front Door and make a selection on the Touch Screen. If the Touch Screen does not respond to any touch commands, switch off the power. Wait 15 seconds. Then switch on the power. Reprogram the copier/printer for the copy features that are desired.</p>
You cannot program a job while a screen is open.	<p>Jobs cannot be programmed or copies made while some screens, such as administration screens, jam clearance screens, or consumable status information screens, are open.</p> <p>Follow the directions on the information screen. Then program the desired job.</p>
Copier/printer features are not selectable.	<p>Certain features cannot be selected because of the previous selections. Generally, features or buttons you can select appear selectable to indicate you can use them with the previous selections. Refer to chapter 2, "Getting to know your Document Centre ColorSeries 50," for more information about buttons.</p>
You cannot complete the programming. The copier/printer times out too quickly and resets to the default settings.	<p>Attempt to complete all the programming more quickly. The time-out values have been exceeded during the programming. The values can be changed by the System Administrator. For information about adjusting the Machine Timeouts, refer to the <i>System Administration Guide</i>, chapter 3, "Tools Mode."</p>

## Resolving Processor problems

Problem	Suggested Solution
Transparencies	<p>Use transparencies with a painted or removable white stripe. Load them with stripe down, as the lead edge of the sheet in Paper Tray 5.</p> <p>Load the transparencies by following the instructions in chapter 9, "Paper."</p>
Transparencies are too oily	<ul style="list-style-type: none"> <li>• Make 5 blank sheet copies with the Full Color option on paper stock to purge excess oil from system. Reload the transparencies in Paper Tray 5 and continue the copying job.</li> <li>• Use the Transparency Separator option.</li> </ul> <p>Refer to the <i>Recommended Materials List</i> and the <i>Color Materials Usage Guide</i> for more information about transparencies.</p>
11 x 17 inch (A3) transparencies jam when exiting the copier/printer to the Output Tray	Remove each copy of 11 x 17 inch (A3) transparencies from the Output Tray before subsequent copies exit the copier/printer.
Transparencies stick together after copying	Select the Transparency Separator feature to eliminate the problem.
Multiple sheets feed from the paper trays	<p>Do not fill the paper trays above the MAX fill line indicator. Trays 1, 2, 3, and 4 hold approximately 550 sheets of 24-lb (90 gsm) paper.</p> <p>Remove the paper from the tray and fan the sheets to separate the joined sheets.</p> <p>Predrilled sheets may stick together at the holes. Remove the paper from the tray and fan the sheets to separate the joined sheets.</p>
Multiple sheets feed from Paper Tray 5	<p>Paper and transparencies may stick together if environmental conditions are too dry and cause excessive static. Increase the humidity level in the copier/printer room to minimize static.</p> <p>Do not overload Paper Tray 5.</p> <p>Gently fan transparencies to separate the sheets before you load them into Paper Tray 5. If multiple sheet feeding continues, feed the transparencies one at a time from Paper Tray 5.</p>
Sheets will not feed from the Paper Tray 5	<p>Ensure that the height of the stack does not exceed the MAX fill line.</p> <p>Check that the paper guide is not too tight. The paper guide should be adjusted to fit snug against the paper stack.</p>



Problem	Suggested Solution
Paper jams when exiting the Paper Trays	<p>Ensure that the edge guides of the paper tray fit snugly against the paper stack.</p> <p>Do not fill the paper trays above the MAX fill line indicator. Tray 1 holds approximately 500 sheets of 20 lb. (75 gsm) paper. Trays 2, 3, and 4 hold approximately 550 sheets of 20 lb. (75 gsm) paper.</p> <p>Close the tray slowly to avoid shifting the paper stack.</p>
Output jams when exiting the copier/printer to the Output Catch Tray	<p>Ensure the paper matches the type defined for the Paper Tray.</p> <p>When no Sorter/Mailbox is present, the Output Catch Tray can hold up to 250 sheets of 20 lb (75 gsm) paper. Empty the catch tray when output approaches this limit to ensure continuous production.</p> <p>Ensure the first sheet is not blocking the paper exit, particularly for 11 x 17 inch (A3) output.</p>
Output jams when exiting the copier/printer to the Offset Catch Tray	<p>Ensure the paper matches the type defined for the Paper Tray.</p> <p>The Sorter/Mailbox Offset Catch Tray has a capacity of 500 sheets of 20 lb (75 gsm) paper. Remove the output when it approached this limit to ensure continuous production.</p> <p>Ensure the first sheet is not blocking the paper exit, particularly for 11 x 17 inch (A3) output.</p>
11 x 17 inch (A3) output blocks exit	Ensure the first sheet of 11 x 17 inch (A3) output exits completely.
Copies originating from Paper Tray 5 are skewed. Jams may be occurring.	The paper guide on Paper Tray 5 may not be set correctly or may be too tight against the paper stack. Ensure that the paper guide snugly touches the paper stack.
Copier/printer does not make copies when Auto Paper is selected.	For the Auto Paper selection to function correctly, the size of the original document must be the same size as the paper supply that is loaded in at least one of the trays. If not, select the paper tray size that best meets your needs. Or, if you wish to continue to use the Auto Paper feature, load one of the trays with the same size paper as the original document.
Loss of information or image deletions on copies made on paper that has been folded or creased.	<p>If you must use folded or creased paper, use a lightweight copy paper, 20 lb (75 gsm). Also, avoid imaging the copy paper in the area of the fold or the crease.</p> <p>Handle the copy paper carefully. Slight folds or creases may result in output deletions.</p>
Fresh copies used as original documents cause jams in the Duplex Automatic Document Feeder.	This problem is caused by the oil used in the fusing process. The problem can be reduced or eliminated by allowing output to sit for awhile so oil can evaporate before using them as original documents.

Problem	Suggested Solution
Excessive paper curl	<p>Paper curl may be a result of:</p> <ul style="list-style-type: none"> <li>• The mass of dry ink (toner) coverage on the copy - the greater the toner mass, the greater the paper curl.</li> <li>• The paper weight.</li> <li>• The humidity conditions at the copier/printer.</li> </ul> <p>You can sometimes minimize curl problems by flipping the paper over in the tray and making the copies again. If excessive curl is still present, use a heavier paper.</p> <p>Ensure the paper matches the type defined for the Paper Tray.</p> <p>Attempt to minimize the amount of dry ink on the copy paper by selecting the Photo feature as the Document Type and/or the lighter and/or less contrast image quality options.</p> <p>Select the Full Color option instead of 3 Pass Color to minimize the amount of dry ink on the copy paper.</p> <p>When no Sorter/Mailbox is present, the Output Catch Tray can hold up to 250 sheets of 20 lb (75 gsm) paper. Empty the catch tray when output approaches this limit to ensure continuous production.</p> <p>The Sorter/Mailbox Offset Catch Tray has a capacity of 500 sheets of 20 lb (75 gsm) paper. Remove the output when it approached this limit to ensure continuous production.</p> <p>Allow output to sit for awhile so any excess oil can evaporate before using them as original documents.</p> <p>Copying high density background areas or documents with alternating high and low density areas results in more curl. Attempt to reduce the amount of curl by adjusting the copy quality controls to reduce the amount of dry ink on the copies.</p> <p>Place the copier/printer and paper in a room with air conditioning and low humidity to minimize the moisture in the environment.</p> <p>Attempt to copy on thicker paper or on paper stock that is less sensitive to moisture.</p>
Load Paper in Tray 6 message is displayed.	<p>Check that paper is loaded correctly and the paper size guide is properly set. Ensure that paper is not loaded over the maximum fill line.</p>

## ***Resolving output quality problems using the Basic Copying, Added Features, or Image Quality Tabs***

<b>Problem</b>	<b>Suggested Solution</b>
Moiré patterns on the copies	<p>This problem sometimes occurs when original documents have halftone images. Perform the following suggested solutions in the following order:</p> <ul style="list-style-type: none"><li>• Select Halftone as the Original Type.</li><li>• Rotate the original on the Document Glass by 180 degrees.</li><li>• Reduce or enlarge the output by 5%.</li><li>• Use the Sharpness feature to select Softer options until the moiré patterns are not visible.</li><li>• Ensure that the selected Original Type is Graphics &amp; Map.</li></ul>
The entire document is not being copied	<p>Enter the Original Size.</p> <p>Reduce the image.</p> <p>Ensure that the document placement matches the Original Orientation setting.</p>

Problem	Suggested Solution
Scattered, very light show-through images occur when copying a document that is on thin paper.	<p>Select the Background Suppression option in the Preset Color Balance feature in the Image Quality tab.</p> <p>To eliminate the unwanted show-through images, place the thin (translucent) document on the Document Glass. Cover the document with a black (or very dark) sheet of paper that is the same size as the document you are copying.</p> <p>Place the 2-sided original document on the Document Glass with a blank sheet of paper on top of it.</p> <p>Adjust the Lighten/Darken control to Lighten.</p> <p>Select the Photo &amp; Text or Text document type and the Auto Contrast Lighten/Darken feature or Background Suppression in the Preset Color Balance feature of the Image Quality tab.</p>
A black border appears at the edge of the copy when a reduction option is selected.	Select the Auto Shift option in the Margin Shift feature or the Edge Erase feature of the Added Features tab.
A black border appears on the copy of a small document.	<p>Select the Auto Shift option in the Margin Shift feature or the Edge Erase feature of the Added Features tab.</p> <p>Or:</p> <p>Program the Original Size in the Added Features tab for the dark bordered document that you wish to copy.</p>

Problem	Suggested Solution
The edge of the original image is deleted from the copies.	<p>Edge deletion on all sides of the copy is normal, and is greatest on the lead edge of the copy. Set the Edge Erase feature, Variable Erase option, to 4 mm to minimize the deletion. Select the size for the original document in the Added Features tab and an appropriate setting from the Reduce/Enlarge option from the Basic Copying tab. Refer to chapter 5, "Added Features," for edge erase specifications.</p> <p>Moisture may be present in the paper. Load a fresh supply of paper into the trays.</p> <p>Some deletions may be caused by small pieces of paper remaining in the copier/printer components after a paper jam has been cleared. When clearing a paper jam, be sure to look for and remove any paper fragments.</p>
Copies made from photographs show color or background on output edges	Most emulsions used to develop photographs have color. Sometimes this color shows on the border of the photograph. To prevent the color from being copied as part of the image or as background, use the Edge Erase feature on the Added Features tab to deliberately erase the unwanted color or background.
Copies made using the 100% Reduce/Enlarge feature do not include the entire image along the edge of the document.	Select the Original Size feature and program the exact size of the dark bordered document that you wish to copy.
Output is too light.	Use the Lighten/Darken feature to select a darker level. Select the Text or Graphics & Maps option in the Original Type feature.
Output is too dark.	Use the Lighten/Darken feature to select a lighter level. Select the Photo option in the Original Type feature.
Output has too much contrast.	Select less color (toward Pastel) Saturation in the Image Quality tab.
Output has low contrast.	Select more color (toward Vivid) Saturation in the Image Quality tab. Select the Graphics & Maps option in the Original Type feature.

Problem	Suggested Solution
Background on the copies.	<p>Examine the input document for the source of the problem.</p> <p>Ensure that the document is held flat on the Document Glass and that the document cover is closed.</p> <p>From the Image Quality tab, adjust the Lighten/Darken control to Lighten.</p> <p>When making Black copies, select Black as the Output Color. Reduce the Color Balance - Low Density values so the background does not appear on the copies.</p> <p>When copying colors, set the Output Color to Auto Color and set the Preset Color Balance Background Suppression option so that the background does not appear on the copies.</p> <p>Determine the type of document you are copying. From the Original Type feature, indicate whether the original is Photo &amp; Text, Text, Photo, or Graphics &amp; Maps for best copy quality.</p> <p>NOTE: Use the Photo option for documents that contain areas of different density, from light to dark, when all levels of density need to be copied.</p>
The copies are blurred when copying thick documents, three-dimensional objects, or books.	<p>Increase the Sharpness.</p> <p>Select the Text or Graphics &amp; Maps option in the Original Type feature.</p> <p>Ensure that the document is held flat on the Document Glass and that the document cover is closed as much as possible. DO NOT force the cover closed.</p>

Problem	Suggested Solution
<p>The image quality gradually degrades on successive copies, or copies made with settings used previously are significantly worse than copies you are making now.</p>	<p>The internal process control function of the copier/printer has degraded.</p> <p>Place a white sheet of paper on the Document Glass and run 35 blank copies using Full Color in the Output Color feature. Make a copy of the document again. The copy quality output should be improved. If not, ensure that the image quality selections, which may have been misadjusted previously to remedy the initial problem, are set to the appropriate levels.</p> <p>Adjust the Auto Screening Adjustment feature in the Tools Mode. Contact your System Administrator or refer to the <i>System Administration Guide</i>.</p>
<p>Copies have dark bands on the lead edge and a corner when 100% Reduce/Enlarge is selected.</p>	<p>The bands may be caused by curled edges on the document or by misregistration of the document on the Document Glass.</p> <p>Ensure that the document is registered correctly.</p> <p>Ensure that the Edge Erase is at No Erase (2 mm). Increasing the amount of Edge Erase should remove more of the dark bands but could cause image loss.</p>
<p>Copies have dark bands on the lead edge and a corner when 100% Reduce/Enlarge is selected and the DADF is used.</p>	<p>The bands may be caused by curled edges on the document or by misregistration of the document by the Duplex Automatic Document Feeder (DADF). Ensure that the Edge Erase is at No Erase (2 mm). Increasing the amount of Edge Erase should remove more of the dark bands but could cause image loss.</p>
<p>Corner Shift appears in the wrong area on the copy.</p>	<p>If the document is positioned on the Document Glass in the short edge feed direction, and the paper used for copying is in the long edge feed direction, the copy will appear to be positioning the Corner Shift selection in the wrong corner. Corner shift selections are referenced from the Document Glass location. Refer to chapter 5, "Added Features," for illustrated examples.</p> <p>NOTE: Corner Shift is also intended only for documents that are smaller than the copy paper selected.</p>

Problem	Suggested Solution
The image quality and the color have degraded over a period of time.	The dry ink cartridge may need attention. Refer to the copier/printer administrator.
Large black borders appear on the copies with documents smaller than the copy paper size.	No shift is selected. Select the Auto Shift feature to eliminate the black borders.  Also, select the Auto Shift feature to eliminate the black borders for copier/printers equipped with the Duplex Automatic Document Feeder (DADF).
Copies made from a newspaper, a map, or a photograph have background when Original Type is defined as Graphics & Maps or Photo.	The Document Centre ColorSeries 50 copier/printer detects low densities of color and reproduces them. This is especially true with the Graphics & Maps and Photo options.  Use the Background Suppression option in the Preset Color Balance feature in the Image Quality tab.  Newspaper show-through can be reduced or eliminated by backing the document with a black sheet of paper.  The background can be reduced or eliminated by adjusting the Lighten/Darken feature toward lighten.
The image density of the copy seems lighter toward the trail edge.	This defect is noticeable only when the input document has large solid areas. To reduce or eliminate this defect, select the Photo option in the Original Type feature of the Image Quality tab.
It is difficult to perform secondary operations on the copies, such as writing on them or using adhesives.	This problem is caused by the oil used in the fusing process. The problem can be reduced or eliminated by setting the copies aside for one or two hours before performing a secondary operation on them. Rubbing the copy surface with a soft, clean cloth or eraser may also help.



## Original Type selection and output

When you use the Original Type options of Photo & Text or Text, the copier/printer attempts to discriminate between text and photo or picture areas within the original. The copier/printer then applies the appropriate image processing to each area. Text is reproduced at 600 lines per inch while photos are reproduced at 200 lines or dots per inch. Occasionally, a defect may occur where an area is classified incorrectly and text is treated as photo or vice versa.

To avoid this type of image quality defect for a given original, select the Original Type options of either Photo or Graphics and Maps. In these modes, uniform image processing is applied to the entire page.



**NOTE:** The resulting output may have a different appearance in these modes. Some color adjustments may be required.

If your original documents consist mostly of text or mostly of photos, the System Administrator can adjust the System Image Quality Image Recognition settings. New default levels can be set for Text & Photo Recognition and/or Text & Photo Balance functions. The System Administrator can select Text or Photo for Photo & Text and Text modes.

For more information, refer to the *System Administration Guide*, chapter 3, "Tools Mode."



# 14 Technical Information

## *Overview*

The information in this chapter is provided for your convenience and can be supplemented with information provided by your Xerox sales or service representative.

## Specifications

### Electrical Power Requirements (115 VAC - 60 Hz)

<b>Specifications</b>	Single phase	Two wire plus earth ground
	Current service	20 Amps (Dedicated line recommended but not required)
	Line-to-Neutral	115 Volts ( $\pm 10\%$ )
	Frequency	60 Hz Contact your Xerox Service Representative for more information.
<b>Max. Power Consumption</b>		2.112 kVA
<b>Current Loads @ 115V</b>	Warm-up	12.5 Amps (1.60 kVA) (approx.)
	Stand-by Average	7 Amps (800 VA) (approx.)
	Average Run Mode (4-Color)	10 Amps (1.2 kVA) (approx.)

## *Electrical Power Requirements (220-240 VAC - 50 Hz)*

<b>Specifications</b>	Single phase	Two wire plus earth ground
	Current service	15 Amps (Dedicated line recommended but not required)
	Line-to-Neutral	220 - 240 Volts ( $\pm 10\%$ )
	Frequency	50 Hz Contact your Xerox Service Representative for more information.
<b>Max. Power Consumption @ 220 Volts</b>		2.2 kVA
<b>Current Loads @ 240V</b>	Warm-up	8.0 Amps (1.6 kVA) (approx.)
	Stand-by Average	3.8 Amps (800 VA) (approx.)
	Average Run Mode (4-Color)	5.7 Amps (1.2 kVA) (approx.)

## Environmental Requirements

<b>Standby Temperatures</b>	Minimum	14°F (-10°C) at 5% relative humidity
	Maximum	104°F (40°C) at 95% relative humidity
<b>Operating Temperatures</b>	Minimum	50°F (10°C) at 15% relative humidity
	Maximum	95°F (35°C) at 85% relative humidity
<b>Maximum Altitude</b>	10,000 feet (3050 meters) in normal configuration	
<b>Heat Output</b>	Operating	4080 BTUs per hour, average
	Standby	2720 BTUs per hour, average

## Health and Safety Information

<b>Noise Levels</b>	Standby	58.4 dB(A)
	Impulse/Run Mode	71.0 dB(A)
<b>Ozone Emissions</b>	Not to exceed 0.01 PPM in a 50 cubic meter room (continuous run, according to UZ 62) Ozone filter change at 320K copies	
<b>Dust</b>	Dust concentration during continuous run = 0.075 mg/cubic meter	
<b>Photoreceptor Type</b>	Organic	
<b>Product Safety</b>	This copier/printer complies with the corresponding regulation: <ul style="list-style-type: none"> <li>• US/Canada: UL 1950, Third Edition</li> <li>• Europe: Low Voltage Directive (72/23/EEC) IEC 950 A1: 1993/ A2:IEC825</li> </ul> The copier/printer carries the CE symbol for the 220-240 V, 50 Hz version.	
<b>RFI Emissions</b>	This copier/printer complies with the following: <ul style="list-style-type: none"> <li>• US/Canada: FCC Class B, ICES-003 Class B</li> <li>• Europe: EMC Directive (89/336/EEC) -EN55022-A Class B, EN61000-3-2.</li> </ul>	

## Capabilities

<b>Warm-up Time</b>	7.4 — 9.5 Minutes at 72°F (22°C), 53% Relative Humidity	
<b>First Copy Out Time*</b>	Black	5.8 seconds
	Color	14.1 seconds
<b>Copy Selector</b>	1-999 copies	
<b>Documents</b>	Effective maximum print/copy area: 11.7 inches x 17.2 inches (297 mm x 438 mm)	
<b>Throughput Size</b>	8 x 10 inches to 12.6 x 17.7 inches (203 mm x 254 mm to SRA3)	
<b>Throughput Paper Weight</b>	Tray 1	16 lb. — 28 lb. Bond 64 — 105 gsm
	Tray 2	16 lb. — 32 lb. Bond 64 — 128 gsm
	Tray 3	16 lb. — 32 lb. Bond 64 — 128 gsm
	Tray 4	16 lb. — 32 lb. Bond 64 — 128 gsm
	Tray 5	16 lb. Bond — 140 lb. Index 64 — 250 gsm
<b>Paper Capacity</b>	Tray 1	500 sheets using 20lb (75gsm)
	Tray 2	550 sheets using 20lb (75gsm)
	Tray 3	550 sheets using 20lb (75gsm)
	Tray 4	550 sheets using 20lb (75gsm)
	Tray 5	100 sheets using 20lb (75gsm)
<b>Reduction/Enlargement</b>	Applied range: 25%—400% Choice of fixed or variable values (in 1% increments)	

\* From Document Glass to the Output Catch Tray, the black and white output rate is 50 copies per minute. With a DADF, the black and white output rate is 40 copies per minute.

## Physical Dimensions



**NOTE:** The dimensions listed include the Processor and the standard Catch Tray.

Floor space requirements can vary depending on copier/printer options and placement location. Contact your Xerox sales or service representative to evaluate your exact requirements.

Copier with DADF		
Width	24.5 in.	622.3 mm.
Height	43.8 in.	1112.5 mm.
Depth	31.5 in.	800 mm.
Copier with Document Glass Cover		
Width	24.5 in.	622.3 mm.
Height	40 in.	1016 mm.
Depth	31.5 in.	800 mm.
Sorter/Mailbox		
Width	28 in.	711.2 mm.
Height	40.5 in.	1029 mm.
Depth	24.25 in.	616 mm.
High Capacity Feeder		
Width	18.12 in.	460.2 mm.
Height	17 in.	432 mm.
Depth	23 in.	584 mm.
Finisher/Mailbox		
Width	29.9 in.	760.2 mm.
Height	41.7 in.	1060 mm.
Depth	26 in.	660 mm.



## System Modes of Operation

<b>Running Mode to Ready Mode</b> <b>Ready Mode to Lower Power Mode</b>	When Running Mode is complete.
	As set by System Administrator: 1-240 minutes  Factory Default: 15 minutes
<b>Low Power Mode to Sleep Mode</b>	As set by System Administrator: 15-240 minutes  Factory Default: 60 minutes

## *Copy rates for Paper Trays 1, 2, 3, and 4: Normal Paper*

Copies per minute for normal paper (64—105 gsm) fed from trays 1, 2, 3, and 4 are listed below. These rates assume black and white copies are being made from the Document Glass.

	Black / White Mode		Color Mode	
	Simplex	Duplex	Simplex	Duplex
<b>B5 LEF</b>	50	25	12	8
<b>B5 SEF</b>	29	14	6	3
<b>A4 LEF</b>	50	25	12	6
<b>A4 SEF</b>	29	14	6	3
<b>Letter LEF</b>	50	25	12	6
<b>Letter SEF</b>	29	14	6	3
<b>Legal SEF</b>	29	14	6	3
<b>B4 SEF</b>	29	14	6	3
<b>A3 SEF</b>	25	12	6	3

## ***Copy rates for Paper Trays 2, 3, and 4: Limited Heavyweight Paper***

Copies per minute for limited heavyweight paper (106—128 gsm) fed from trays 2, 3, and 4 are listed below.

	Black / White Mode	Color Mode
	Simplex	Simplex
<b>B5 LEF</b>	6	3.5
<b>B5 SEF</b>	6	3.5
<b>A4 LEF</b>	6	3.5
<b>A4 SEF</b>	6	3.5
<b>Letter LEF</b>	6	3.5
<b>Letter SEF</b>	6	3.5
<b>Legal SEF</b>	6	3.5
<b>B4 SEF</b>	6	3.5
<b>A3 SEF</b>	6	3.5

## Copy rates for Tray 5

Copy rates (copies per minute) for Tray 5 are listed below.

	Size	Black / White Mode	Color Mode
		Simplex	Simplex
<b>Normal Paper 64—105 gsm</b>	A4 / Letter LEF	25	6
	A3	20	6
<b>OHP (Transparency)</b>	A4 / Letter LEF	25	2.4
	A3	20	2.4
<b>Heavyweight Paper 106—163 gsm</b>	A4 / Letter LEF	6	3.5
	A3	6	3.5
<b>Extra Heavyweight Paper 164—250 gsm</b>	A4 / Letter LEF	3	2.4
	A3	3	2.4
<b>Postcard</b>	Postcard SEF	3	2.4

## Duplex Automatic Document Feeder (DADF Specifications)

<b>Document feeding method</b>	Face-up, 1-to-50 (top feed) method. Capable of automatic document feeding.
<b>Applicable document sizes</b>	Minimum: 8.5 x 11 inches (216 x 279 mm) short edge first, A4 Maximum: 11 x 17 inches (279 x 432 mm), A3
<b>Maximum number of documents</b>	<ul style="list-style-type: none"> <li>• 50 for thin (38—49 gsm) or standard (50—100 gsm) documents</li> <li>• 40 for heavier paper (101—128 gsm)</li> </ul>
<b>Speed</b>	40 black and white copies per minute (A4 or 8.5 x 11 inch. LEF) 12 black and white copies per minute (A3 or 11 x 17)
<b>Power source</b>	Supplied from the Processor
<b>Noise while running</b>	68 dB(A)
<b>Dimensions</b>	Width: 25.19 inches (640 mm)
	Height: 5.11 inches (130 mm)
	Depth: 21.06 inches (535 mm)
<b>Weight</b>	28.7 lbs. (14 kg)
<b>Machine space</b>	Within the space required for the copier/printer

## Sorter/Mailbox Specifications

<b>Paper Size</b>	8.5 x 11 inches to 11 x 17 inches (216 x 279 mm to 279 x 432 mm) (A4 to A3)
<b>Capacity of the Output/Offset Catch Tray</b>	500 sheets of 20 lb. (75 gsm) paper
<b>Number of Sorter/Mailbox Bins</b>	10
<b>Capacity of each bin</b>	100 sheets of 20 lb. (75 gsm) paper
<b>Weight</b>	75 lbs (34 kg)
<b>Dimensions</b>	<b>Width:</b> 28 (711.2 mm)
	<b>Height:</b> 40.5 inches (1029 mm)
	<b>Depth:</b> 24.3 inches (616 mm)
<b>Noise while running</b>	56 dB(A)

## Finisher/Mailbox Specifications

<b>Paper Size</b>	<b>Finisher Output tray:</b> <ul style="list-style-type: none"> <li>8.5 x 11 in., 8.5 x 10 in. LEF, 8.5 x 13 in. SEF, 11x 17 in. SEF, 8.5 x 14 in. SEF,</li> <li>A4, B5, A5 LEF, B4 SEF, A3 SEF</li> </ul>
	<b>Center Output tray:</b> <ul style="list-style-type: none"> <li>5.5 x 8.5 in. SEF, 12 x 18 in. SEF</li> <li>A6 SEF, A5 SEF, B6 SEF</li> <li>All sizes accepted by the Finisher Output tray</li> </ul>
<b>Capacity of Center Output Tray</b>	300 sheets of 20 lb. (75 gsm) paper
<b>Capacity of Finisher tray</b>	1000 single sheets of 20 lb. (75 gsm) paper
	60 - 100 stapled sets of 20 lb. (75 gsm) paper
<b>Maximum sheets per stapled set</b>	50 sheets of 20 lb. (75 gsm) paper per stapled set
<b>Weight</b>	124 lbs. (56 kg)
<b>Dimensions</b>	<b>Width:</b> 29.9 in. (760.2 mm)
	<b>Height:</b> 41.7 in. (1060 mm)
	<b>Depth:</b> 26 in. (660 mm)
<b>Noise</b>	<b>Running:</b> 64 dB(A)
	<b>Impulse:</b> 72 dB(A)
<b>Power Consumption</b>	48.1 Watts DC



**NOTE:** For more information regarding Finisher/Mailbox specifications and capabilities, refer to the *DocuColor 12/Document Centre ColorSeries 50 In-Line Stapler Finisher User Guide*.

## Metric Conversion Chart

\* Note that most numbers are rounded off.

Inches	Millimeters (mm)	Inches	Millimeters (mm)	Inches/ International Sizes	Millimeters (mm)	Celsius (°C)	Fahrenheit (°F)
0.01	0.254	6	153	13.5	343	10	50
0.04	1	7.2	183	14.0	356	32	90
0.05	1	7.3	185	8.0	203	100	212
0.1	3	7.5	190	15.75	400	200	392
0.15	4	7.8	198	16.9	429	204	400
0.2	5	8.0	203	17.0	432	218	425
0.25	6	8.3	211	24.0	610		
0.28	7	8.4	213				
0.3	7	8.5	216				
0.5	13	8.7	221	5 x 8	127 x 203		
0.6	15	9.0	229	8 x 10	203 x 254		
0.7	18	10.0	254	8 x 11	203 x 279		
0.8	20	10.5	267	A4	210 x 297		
1	25.4	10.8	274	8.5 x 11	216 x 279	<b>Kilograms</b>	<b>Pounds</b>
1.4	36	11.0	279	8.5 x 13	216 x 330	1.0	2.205
1.5	38	11.1	282	8.5 x 14	216 x 356	0.454	1.0
1.7	43	11.15	283	8.7 x 14	221 x 356		
1.9	48	11.5	292	9 x 11	229 x 279		
2	51	11.8	300	9 x 14	229 x 356		
2.3	58	11.85	301	11 x 17	279 x 432		
2.5	64	12.5	318	A3	297 x 420		
3	76	13.0	330	12 x 17	305 x 432		
4	104	13.4	340	12 x 18	305 x 457		
5	127	13.45	342	SRA3 12.6 x 17.7	320 x 450		



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