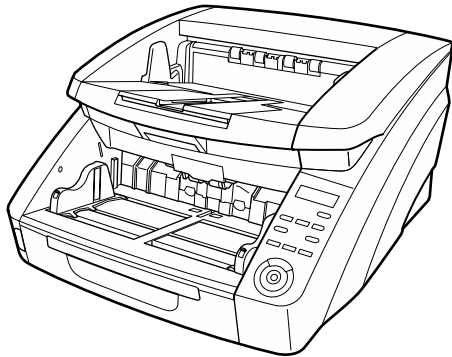


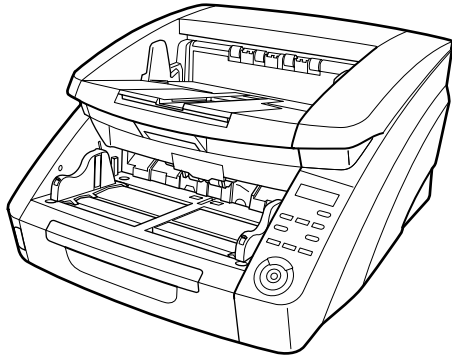
Canon



imageFORMULA



DR-9050C/DR-7550C



DR-6050C

DR-9050C DR-7550C DR-6050C

Reference Guide

Please read this manual before using the scanner.
After you finish reading this manual, keep it in a safe place for future reference.

ENGLISH

READ CAREFULLY BEFORE OPENING THE SEALED DISK PACKAGE

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FCC REGULATIONS (For 120 V model)

Document Scanner:

- DR-6050C: Model M11070
- DR-7550C: Model M11069
- DR-9050C: Model M11068

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: 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.

Use of shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Canon U.S.A. Inc.

One Canon Plaza, Lake Success NY 11042, U.S.A.

Tel. No. (516)328-5000

RADIO INTERFERENCE REGULATIONS (For 120 V models)

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Interference-causing equipment standard entitled “Digital Apparatus”, ICES-003 of the Industry Canada.

RÈGLEMENT SUR LE BROUILLAGE RADIOÉLECTRIQUE (For 120 V models)

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: “Appareils Numériques”, NMB-003 édictée par l’Industrie Canada.

International ENERGY STAR® Office Equipment Program



As an ENERGY STAR® Partner, Canon Electronics Inc. has determined that this machine meets the ENERGY STAR® Program guidelines for energy efficiency.

The International ENERGY STAR® Office Equipment Program is an international program that promotes energy saving through the use of computers and other office equipment. The program backs the development and dissemination of products with functions that effectively reduce energy consumption. It is an open system in which business proprietors can participate voluntarily. The targeted products are office equipment, such as computers, displays, printers, facsimiles, copiers, and scanners. The standards and logos are uniform among participating nations.

European Union (and EEA) only.



This symbol indicates that this product is not to be disposed of with your household waste, according to the WEEE Directive (2002/96/EC) and your national law. This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, approved WEEE scheme or your household waste disposal service. For more information regarding return and recycling of WEEE products, please visit www.canon-europe.com/environment. (EEA: Norway, Iceland and Liechtenstein)

Für EMVG

Dieses Produkt ist zum Gebrauch im Wohnbereich, Geschäfts-und Gewerbebereich sowie in Kleinbetrieben vorgesehen.

Für 3. GPSGV

“Maschinenlärminformations-Verordnung 3. GPSGV: Der höchste Schalldruckpegel beträgt 70 dB(A) oder weniger gemäß EN ISO 7779”

Model Names

The following names may be provided for the safety regulations in each sales region of the Document Scanner.

DR-6050C: Model M11070

DR-7550C: Model M11069

DR-9050C: Model M11068

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Preface

Thank you for purchasing the Canon imageFORMULA DR-6050C/DR-7550C/DR-9050C Document Scanner. Please read this and the following manuals thoroughly before using the scanner to become acquainted with its capabilities and make the most of its many functions.

After reading the manuals, store them in a safe place for future reference.

Manuals for the Scanner

The documentation for the scanner consists of the *Easy Start Guide* and the *Reference Guide* (this manual) (supplied with the scanner), the *User Manual*, and the *CapturePerfect 3.0 Operation Guide*, which are provided in electronic form and registered in the menu during software installation.

Easy Start Guide

This manual describes the procedures for setting up the scanner for use. Please follow the procedures in the *Easy Start Guide* to set up the scanner.

Reference Guide (This Manual)

This manual consists of the basic scanner operating instructions extracted from the *User Manual*.

User Manual (Electronic Manual)

This manual consists of two sections: Hardware and Software.

The Hardware section provides general information about the scanner operational settings, maintenance, and troubleshooting.

The Software section describes how to use the ISIS/TWAIN driver with the scanner, and how to set up job registration tools.

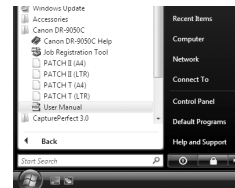
CapturePerfect 3.0 Operation Guide (Electronic Manual)

This is the operation guide for CapturePerfect 3.0, the Canon document scanner application program.

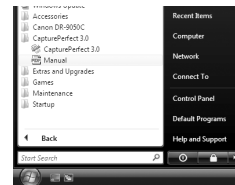
Hint

- The User Manual and the CapturePerfect 3.0 document files are installed in the following locations during software installation.

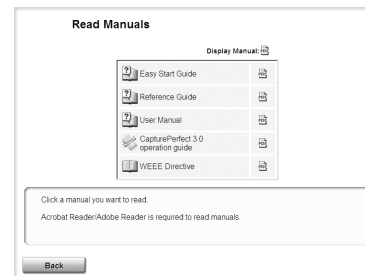
User Manual



CapturePerfect 3.0 Operation Guide



- Electronic versions of all manuals are available for viewing from the Setup CD.



Symbols Used in This Manual

The following symbols are used in this manual to explain procedures, restrictions, handling precautions, and instructions that should be observed for safety.

WARNING

Indicates a warning concerning operations that may lead to death or injury to persons if not performed correctly. To use the scanner safely, always pay attention to these warnings.

CAUTION

Indicates a caution concerning operations that may lead to injury to persons, or damage to property if not performed correctly. To use the scanner safely, always pay attention to these cautions.

IMPORTANT

Indicates operational requirements and restrictions. Make sure that you read these items carefully to operate the scanner correctly, and avoid damage to the scanner.

Hint

Indicates a clarification of an operation, or contains additional explanations for a procedure. Reading these notes is highly recommended.

How This Manual is Organized

This manual consists of the following chapters.

Chapter 1 Before You Start Using the Scanner

Provides an overview of the scanner

Chapter 2 Basic Operation

Describes the basic uses of the scanner

Chapter 3 Maintenance

Describes routine cleaning and roller replacement

Chapter 4 Practical Examples

Describes displayed messages and troubleshooting solutions

Chapter 5 Appendix

Provides a list of specifications and support information

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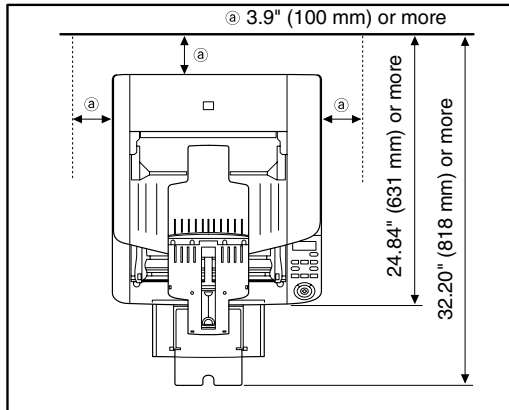
1. Important Safety Instructions

To ensure the safe operation of this scanner, be sure to read the safety warnings and precautions described below.

Installation Location

The performance of this scanner is affected by the environment in which it is installed. Make sure that the location where the scanner is installed meets the following environmental requirements.

- Provide adequate space around the scanner for operation, maintenance, and ventilation.



- Avoid installing the machine in direct sunlight. If this is unavoidable, use curtains to shade the scanner.
- Avoid locations where a considerable amount of dust accumulates.
- Avoid warm or humid locations, such as in the vicinity of a water faucet, water heater, or humidifier, and avoid locations where the fumes from ammonia, paint thinner, or other volatile chemicals may be present.

- Avoid locations that are subject to vibration.
- Avoid exposing the scanner to rapid changes in temperature. If the room in which the scanner is installed is cold but rapidly heated, water droplets (condensation) may form inside the scanner. This may result in a noticeable degradation in scanning quality.

The following conditions are recommended for optimal scanning quality:

Room temperature: 10 °C to 32.5 °C (50 °F to 90.5 °F)

Humidity: 20% to 80% RH

- Avoid installing the scanner near equipment that generates a magnetic field (e.g. speakers, televisions, or radios).

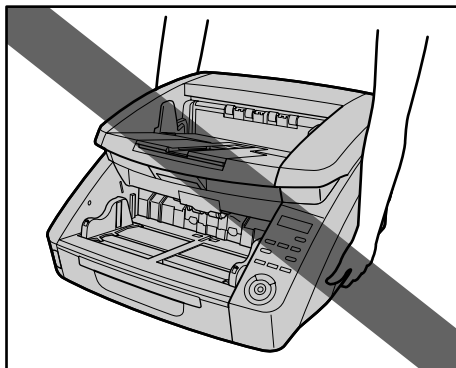
Power

- Connect only to a power outlet of the rated voltage and power supply frequency (either 120 V, 60 Hz or 220-240 V, 50/60 Hz, depending on your region).
- Do not use the scanner with a power supply that is not rated for the specified voltage. Doing so might cause fire or electric shock.
- Do not connect other electrical equipment to the same power outlet to which the scanner is connected. Also, when using an extension cord, make sure that the extension cord is rated for the current requirements of the scanner.
- The power cord may become damaged if it is often stepped on or if heavy objects are placed on it. Continued use of a damaged power cord can lead to an accident, such as a fire or electrical shock.

- Do not use the power cord while it is coiled.
- Do not pull directly on the power cord. When disconnecting the power cord, grasp the plug and remove it from the outlet.
- Keep the area around the power plug clear of objects so that the power cord can be disconnected easily in an emergency.
- If you have any questions regarding the power supply, contact your local authorized Canon dealer or service representative for further information.

Moving the Scanner

- The scanner weights about 50 lbs (22.5 kg). To lift or move the scanner, always use two people, one on each side. Never attempt to lift the scanner by yourself. You could drop the scanner or pinch your fingers, resulting in personal injury or damage to the scanner. Remember to be extra careful when moving it.



- Make sure to disconnect the interface cable and power cord when moving the scanner. If the scanner is carried with these items connected, the plugs and connectors may be damaged or cause the scanner to fall and result in personal injury or damage to the scanner.

Handling

⚠ WARNING

Note the following precautions whenever using the scanner. Failure to do so may result in a fire or electric shock.

- Never use alcohol, benzene, paint thinner, aerosol sprays, or any other highly flammable substance near the scanner.
- Do not cut, damage, or modify the power cord. Do not place heavy objects on the power cord, and do not pull or excessively bend the power cord.
- Never connect the power cord when your hands are wet.
- Do not connect the scanner to a multiplug power strip.
- Do not knot or coil the power cord, as this may result in a fire or electric shock. When connecting the power cord, make sure that the power plug is securely and completely inserted into the power outlet.
- To use a reel-type extension cord, unwind all of the cord from the reel. Long-term operation with the cord wound on the reel may cause the cord to overheat and could cause a fire.
- Do not use power cords other than the power cord provided with this scanner.

- Never try to take the scanner apart or modify it in any way, as this is dangerous and may lead to a fire or electric shock.
- Do not use flammable aerosol sprays products near the scanner.
- When cleaning the scanner, turn the power switch OFF and disconnect the power plug from the power supply.
- Clean the scanner using a slightly dampened cloth which has been well wrung out. Never use alcohol, benzene, paint thinner, or any other flammable substances.
- If the scanner makes strange noises, or gives off smoke, heat, or strange odors, or the scanner does not function or other abnormalities occur when you use the scanner, immediately turn the power switch OFF, and disconnect the power plug from the power outlet. Then, contact your local authorized Canon dealer or service representative for further information.
- Do not drop the scanner, or subject it to impact or strong shock. Should the scanner ever become damaged, immediately turn the power switch OFF, and disconnect the power plug from the power outlet. Then, contact your local authorized Canon dealer or service representative to have the unit serviced.
- Before moving the scanner, make sure to turn the power switch OFF, and disconnect the power plug from the power outlet.

CAUTION

- Do not install the scanner on a surface that is unstable or tilted, or in an area subject to excessive vibrations, as this may cause the scanner to fall, resulting in personal injury or damage to the scanner.

- Do not block the ventilation openings. Doing so could cause the scanner to overheat, creating a risk of fire.
- Never place small metal objects such as staples, paper clips, or jewelry on the scanner. These items may fall into the scanner, and cause a fire or electric shock. Should such objects ever fall inside the scanner, immediately turn the power switch OFF, and disconnect the power plug from the power outlet. Then, contact your local authorized Canon dealer or service representative to have the unit serviced.
- Do not locate the scanner in a humid or dusty location. Doing so may cause a fire or electric shock.
- Do not place objects on top of the scanner. Such objects may tip or fall over, resulting in personal injury.
- When unplugging the power cord, grasp it firmly by its plug. Do not pull directly on the power cord, as this may damage or expose the cord's internal wiring, resulting in a fire or electric shock.
- Leave sufficient space around the power plug so that it can be unplugged easily. If objects are placed around the power plug, you will be unable to unplug it in an emergency.
- Do not allow water or flammable substances (alcohol, paint thinner, benzene, etc.) to spill into the scanner, as this may result in a fire or electric shock.
- Turn OFF the power switch for safety when not using the scanner for a long period of time, such as overnight. Also, turn OFF the power switch, and disconnect the power cord from the power outlet for safety when the machine will not be used for an extended period of time, such as during consecutive holidays.

- Do not wear loose clothing or jewelry that may get caught in the scanner while you are using it. This may result in personal injury. Be extra careful of neckties and long hair. If anything becomes caught in the scanner, immediately disconnect the power cord to stop the scanner.
- Be careful when placing paper in the scanner and when removing jammed paper. It is possible to cut your hand on the edge of a sheet of paper.

Disposal

- When disposing of this scanner, make sure to follow all local ordinances and laws or consult with the retailer who sold you the scanner.

2. Features

The main features of the DR-6050C/7550C/9050C are described below.

Scanner Features

- **Variety of Scanning Modes**

The scanner is equipped with six scanning modes: Black and White, Error Diffusion, Advanced Text Enhancement, Advanced Text Enhancement II, 256-Color Grayscale, and 24-Bit Color.

* Advanced Text Enhancement can clarify scanned text by processing background or foreground colors.

- **Fast Document Feeding**

The scanner can scan up to 90 document sheets per minute of LTR/A4-size paper in black and white, grayscale, and color scanning modes. (For the DR-9050C)

* Scanning conditions: LTR/A4 portrait, duplex, 200 dpi

- **Large Capacity Feeder**

Up to 500 plain paper document sheets can be loaded in the document feed tray. (Maximum of 300 sheets for the DR-6050C)

- **Count-Only Mode**

When operating the scanner as a stand-alone device, this mode counts the number of loaded document sheets.

- **Adjustable Document Feed Tray**

The position of the document feed tray can be adjusted up or down according to the number of document sheets to be loaded. (See “Preparing the Document Feed Tray” on p. 18.)

- **Long Document Mode**

Document sheets up to three meters (118.1 inches) long can be scanned. (See “Long Document Mode Setting” on p. 16.)

- **Job Function**

Scanning conditions and the saving destination for image files are registered with the job, so you can scan using only control panel key operations. (See “About the Job Function” on p. 26.)

- **Freely Adjustable Document Guides**

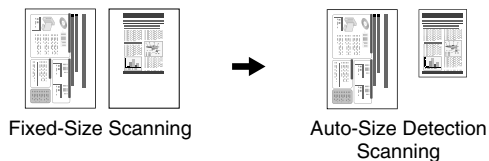
The left and right document guides can be adjusted so that documents can be positioned to scan either the left or right side. (See “Adjusting the Document Guides” on p. 20.)

- **User Mode**

The User Mode functions can be employed to set the scanner for practically any condition. For details on the User Mode settings, refer to the *User Manual*.

Detection Functions

- **Auto Image Type Detection**
The scanner automatically detects whether documents are in black and white or color.
- **Auto Paper Size Detection**
The document page size is detected before scanning.



- **Skew Detection**
The scanner stops feeding when a skewed document is detected as it touches the edge of the feeder inlet.
- **Staple Detection**
The scanner stops feeding when it detects the presence of stapled documents.
- **Ultrasonic Double-Feed Detection**
The scanner stops feeding when the ultrasonic sensor detects that two or more document pages are feeding at the same time.
* A non-detection zone can be specified to avoid double-feed detection in areas such as those containing adhesive labels.
- **Double-Feed Detection by Document Length**
The scanner stops feeding when a double feed is detected by comparing document lengths.
* Using the length of the first document page as a reference, the scanner detects a double feed when a page of a different length is fed.
- **Prescan**
At the start of scanning, this function prescans the first page of a document and pauses so that you can use the first image to adjust the brightness and contrast before resuming scanning.

- **Verify Scan**
While scanning, the count of document pages scanned is verified against a pre-specified count or the count obtained from Count-Only Mode.
- **Text Orientation Detection**
The text orientation on each page is detected, and the scanned image is rotated in 90-degree increments as necessary for normalization.

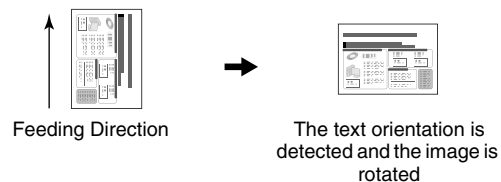
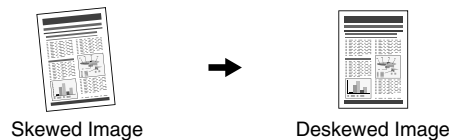


Image Processing

- **Prevent Bleed Through/Remove Background**
Prevents the background or original image on the reverse side of thin originals from appearing in scanned images.
- **Image Rotation**
The scanner can rotate scanned images in 90° increments, or detect the text orientation and rotate the image in 90° increments to correct its orientation.
- **Deskew**
The scanner straightens an image when it recognizes from the image that the document page was fed askew.



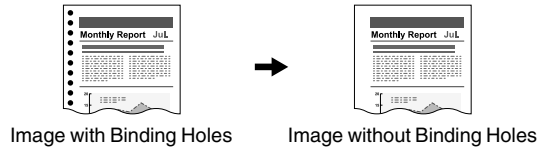
- **Dropout and Color Enhancement**

The scanner is equipped with drop-out and enhancement functions that enable you to specify one color (red, blue, or green) to be omitted (dropped out) or enhanced when scanning, respectively.



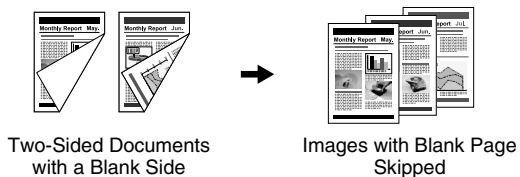
- **Remove Binder Holes**

Erases the shadows that appear on scanned images from binding holes on the original document.



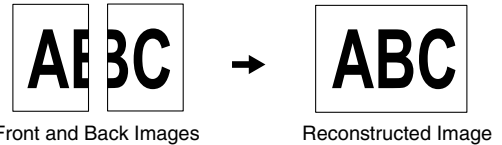
- **Skip Blank Page**

The scanner scans both sides of a document and skips saving the image of any side it determines to be a blank page.



- **Folio Scan**

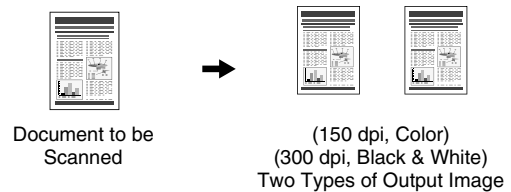
Documents that are too large to fit in the feeder inlet can be folded and scanned on both sides, and the images combined into a single image.



* Folio Scan supports up to A1-size (23.4" × 33.1" (594 × 841 mm)) documents when used together with the Long Document Mode.

- **MultiStream**

The scanner supports MultiStream, which, depending on the software application, can create two images with different scanning conditions from a single scan pass. However, this function is only available when using CapturePerfect 3.0 (supplied with the scanner) or another application program that supports the MultiStream function.



Other Functions

● Rapid Recovery System

When this function is activated and a sensor detects a misfeed due to a paper jam or double feed, which causes feeding to stop, scanning pauses to allow you to correct the cause of the misfeed, after which scanning continues from the document page on which the abnormality was detected. (See “Clearing a Paper Jam or Double Feed Error” on p. 32.)

* The Rapid Recovery System is effective when feeding stops as a result of detection of a Paper Jam, Double Feed, Skew, or Staple.

Options

● Imprinter (Option)

As an option, printing can be made on scanned documents.

● Barcode Detection (Option)

Barcodes on documents can be detected by installing the optional barcode module.

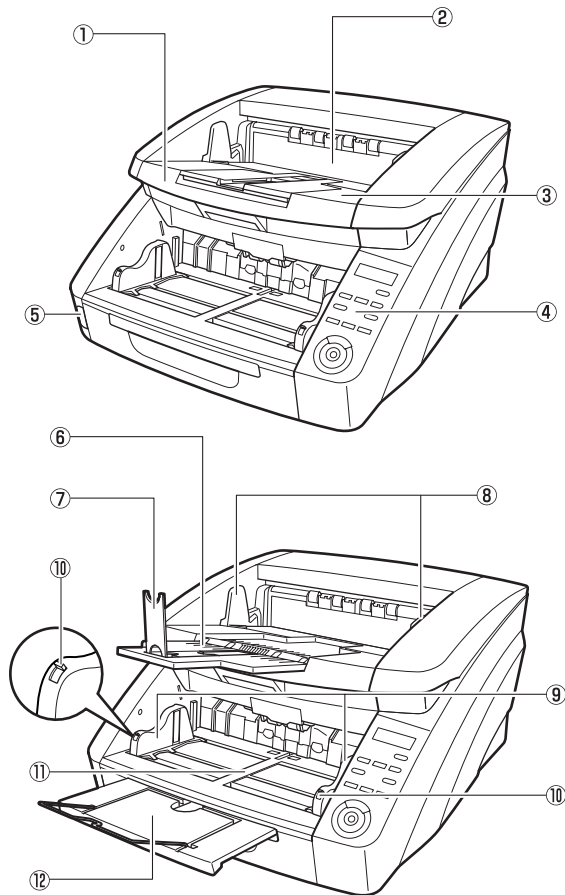
● Patchcode Support (Option)

By installing the optional patchcode decoder, patch code sheets inserted between document pages can be detected for batch separation.

3. Names and Functions of Parts

The names and functions of the DR-6050C/7550C/9050C parts are shown below.

Front View, Feeder Inlet, and Eject Outlet

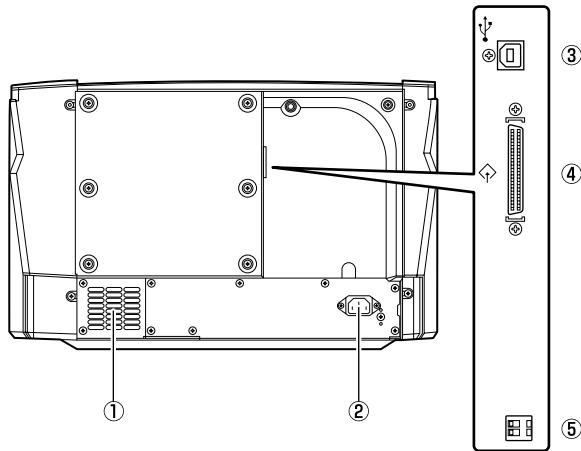


- ① Upper Unit
Open when cleaning the rollers or paper jams.
- ② Imprinter Cover
Open when replacing the ink cartridge in the optional imprinter or when cleaning the imprinter.
- ③ Document Eject Tray
Scanned documents are output here.
- ④ Control Panel (See p. 12.)
- ⑤ Power Switch
Turns the scanner ON and OFF.
- ⑥ Document Eject Tray Extension
Open the Document Eject Tray Extension when documents look like they are going to fall off of the eject tray.
- ⑦ Eject Paper Stoppers
Adjust to fit the length of documents, to avoid document spillage.
- ⑧ Document Guides
Adjust to fit the width of documents, so that ejected documents stack neatly.
- ⑨ Document Guides
Adjust to fit the width of documents.
- ⑩ Document Guide Lock Lever
Locks the Document Guides.
- ⑪ Document Feed Tray
Load documents to be scanned here.
- ⑫ Document Feeder Tray Extension / Extension Wire
Extend as needed to fit the length of the documents.

⚠ CAUTION

Do not open the imprinter cover if the optional imprinter is not installed.

Rear View

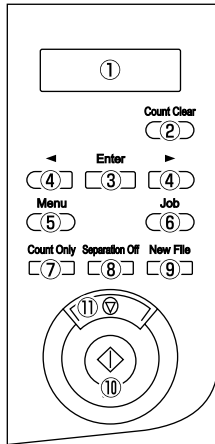


- ① **Ventilation Holes (Exhaust Fan)**
Exhausts heat from inside the scanner.
- ② **Power Connector**
Connect the supplied power cord here.
- ③ **USB Connector (Type B)**
Connect the supplied USB cable here.
- ④ **SCSI Connector (50-pin half-pitch D-sub receptacle)**
Connect the SCSI cable here.
- ⑤ **DIP Switches (SCSI ID)**
Selects the scanner's SCSI ID.

⚠ CAUTION

Do not block the ventilation holes. Doing so could cause the scanner to overheat, creating a fire hazard.

Control Panel



- ① **Display Panel**
Displays the user mode, job info, messages, and counter.
- ② **Count Clear Key**
Clears the counter on the display panel.
- ③ **Enter Key**
Selects the user mode, and accepts settings.
- ④ **◀▶ Keys**
Selects the user mode and job.
- ⑤ **Menu Key**
Displays the user mode.
- ⑥ **Job Key**
Selects jobs.
- ⑦ **Count Only Key**
Feeds and counts the number of document pages.
- ⑧ **Separation Off Key**
Raises the Document Feed Tray for the non-separating (manual) mode.
- ⑨ **New File Key**
When File Separation by Key is enabled, separates files.
- ⑩ **Start Key**
Starts scanning.
- ⑪ **Stop Key**
Stops the scanning process.

Chapter 2 Basic Operation

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1. Turning the Power ON and OFF

Use the power switch to turn the scanner ON and OFF, or if you are using a USB connection, you can set the USB-linked power switch.

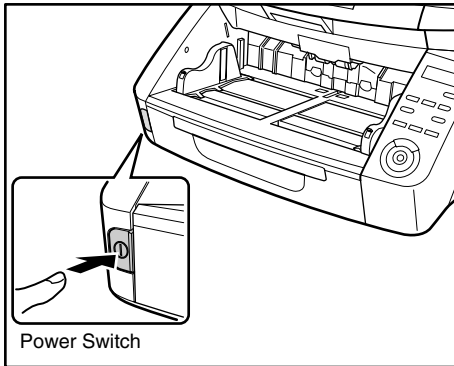
⚠ CAUTION

- After turning the scanner OFF, wait at least ten seconds before turning it back ON.
- If the scanner is connected via SCSI cable, always turn the scanner ON before turning the computer ON. If you turn the computer ON before the scanner, it may not recognize the scanner properly.

About the Power Switch

The power switch is located at the lower left side of the front of the scanner. Press the power switch to turn the scanner ON. (See p. 18.)

Press the power switch again to turn the scanner OFF.



💡 Hint

In the User Mode, if the tray position is set to a height other than the lowest position, then the Document Feed Tray moves up and down when the power is turned on. In this case, the Document Feed Tray is lowered once to the lowest position and then moves to the configured height. When the power is turned off, the Document Feed Tray does not move and stays at the configured height. (See p. 18.)

⚠ IMPORTANT

- When connecting the scanner to the computer using a SCSI cable, be sure to turn ON the scanner first, and then turn ON the computer. If you turn ON the computer first, the scanner may not be properly recognized by the computer.
- After turning the scanner OFF, wait at least 10 seconds before turning it ON again.
- If you will not be using the scanner for an extended period, disconnect the power cord from the AC outlet for safety.

2. Documents

The scanner can scan documents ranging in size from business cards and checks to 11" × 17"/A3 size. The size and type of paper that can be fed depends on the feeding method.

Acceptable Documents

The scanner can feed the following document sizes.

Size

Width: 2" to 12.01" (50.8 mm to 305 mm)

Length: 2.76" to 17.01" (70 mm to 432 mm) (without using the Long Document Mode)

2.76" to 39.37" (70 mm to 1m) (using [ON1] in the Long Document Mode)

2.76" to 118.11" (70 mm to 3m) (using [ON2] in the Long Document Mode)



Hint

When the Long Document Mode is selected, Paper Size Detection can be used for scanning documents up to 118.11" (3 m) long. (See "Long Document Mode Setting" on p. 16.)

Paper Thickness

Continuous Feeding: 14 to 56 lb bond (52 g/m² to 209 g/m²) (0.06 mm to 0.25 mm)

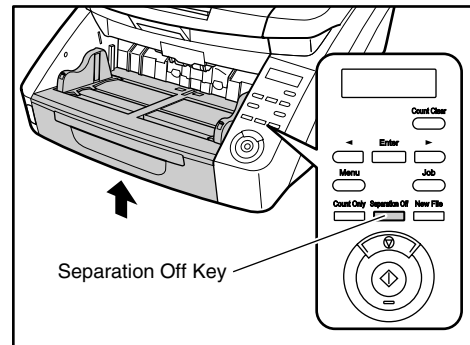
Manual Feeding: 11 lb to 64 lb bond (42 g/m² to 255 g/m²) (0.05 mm to 0.30 mm)



Hint

- Continuous feeding feeds document pages one after another by the feed and retard rollers after placing a batch of documents in the Document Feed Tray.

- Manual feeding requires feeding one document at a time while the [Separation Off] key on the control panel is lit and the Document Feed Tray is raised.



! IMPORTANT

- A document must meet the following criteria to be scannable:
- When scanning a multipage document, pages must be grouped together so that they have the same size, thickness, and weight. Scanning different types of paper at one time can cause the scanner to jam.
 - Always make sure that the ink on a document is dry before scanning it. Scanning documents with the ink still wet may soil the rollers or scanning glass, cause lines or smudges to appear on images, or dirty other documents.
 - Always clean the rollers or scanning glass after scanning a document written in pencil. Scanning documents with pencil written on them may soil the rollers or scanning glass, cause stripes to appear in images, or dirty other documents.
 - When scanning a two-sided document that is printed on thin paper, the image on the opposite side of each page may show through. Adjust the scanning brightness from the application program, or enable the [Prevent Bleed Through/Remove Background] setting before scanning.

- Note that scanning the following types of documents can cause a paper jam or malfunction. To scan such a document, make a photocopy of the document and then scan the photocopy.



Wrinkled or creased documents



Carbon paper



Curled documents



Coated paper



Torn documents



Extremely thin, translucent paper



Documents with paper clips or staples

- To scan bound multi-page documents such as invoice booklets, place the bound edge against the feeder inlet and scan by manual feeding.
- To use the Long Document Mode, feed document pages manually, one after another.

Document Feeder Capacity

DR-6050C:

Up to 300 sheets of good quality paper or up to 1.10" (28 mm) high (maximum)

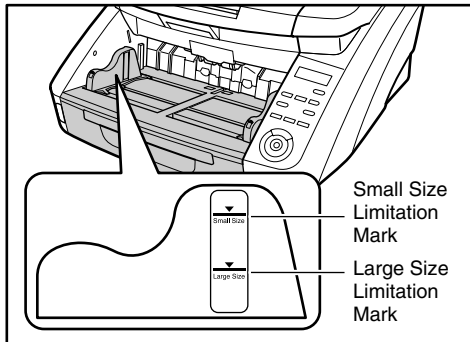
DR-7550C/9050C:

Up to 500 sheets of good quality paper or up to 1.89" (48 mm) high (maximum)



IMPORTANT

Do not exceed the load limitation mark when placing documents in the Document Feed Tray. It may cause paper jams.



Small Size Limitation Mark:

When placing documents that are smaller than LTR/A4 size.

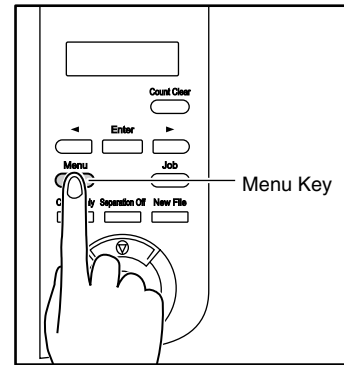
Large Size Limitation Mark:

When placing documents that are larger than LTR/A4 size.

Long Document Mode Setting

Using the Long Document mode, pages up to 118.11" (3 m) long can be scanned. You can set the Long Document Mode setting from the User Mode.

- Press the Menu key on the control panel.



The User Mode is activated.

```
B u z z e r   C o n t r o l
[ O N 2 ]   O N 1   O F F
```

- Press the [▶] key four times to display Long Document Mode.

```
L o n g   D o c u m e n t
O N 2   O N 1   [ O F F ]
```

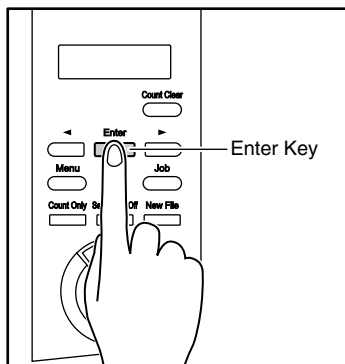

3. Confirm your settings.

[ON2]: When the [Auto Detection] or [Scanner's Maximum] page size setting is selected, document page lengths up to 118.11" (3 m) can be detected.

[ON1]: When the [Auto Detection] or [Scanner's Maximum] page size setting is selected, document page lengths up to 39.37" (1 m) can be detected.

[OFF]: When the [Auto Detection] page size setting is selected, document page lengths up to 17.01" (432 mm) can be detected.

4. Press [Enter].



The current setting is indicated by blinking square brackets [].

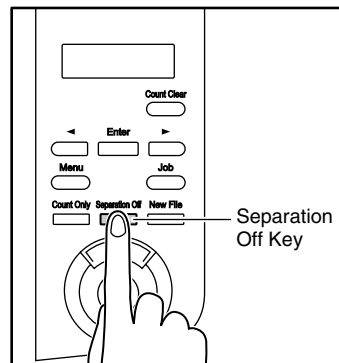
5. Press the [◀] or [▶] key to select [ON] or [OFF], and press [Enter] to accept the selection.

6. Press the Stop key to exit the User Mode.

! IMPORTANT

- Processing may be slowed when scanning in the Long Document Mode.
- When scanning with the Long Document Mode set to [ON1], if the scan is performed with the scanning mode set to color and the image quality set to [Image quality priority], the image may be lost. If this occurs, scan by using black and white or reducing the image quality.

- When scanning with the Long Document Mode set to [ON2], if the scan is performed at 400/600 dpi or the scan is performed with the scanning mode set to color and the scanning side set to [Duplex], the image may be lost. If this occurs, scan by reducing the resolution, using black and white, or setting the scanning side to [Simplex].
- When scanning using Long Document Mode, [High-Quality Moire Reduction], [Deskew], or document orientation of [90 degrees] or [270 degrees] cannot be used.
- If a sheet is loaded at a skewed angle when scanning long documents, it may be damaged by contacting both sides of the transport path. So be careful to avoid loading documents at skewed angles.
- Paper jam detection may react slowly when scanning long documents, which could result in jammed documents being damaged. Be especially careful to avoid paper jams.
- To feed each document page manually when scanning long documents, press the [Separation Off] key on the control panel.



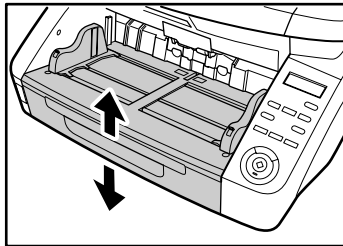
3. Document Feed and Eject Trays

Before scanning, prepare the Document Feed and Eject Trays for the desired paper size.

Preparing the Document Feed Tray

■ Document Feed Tray

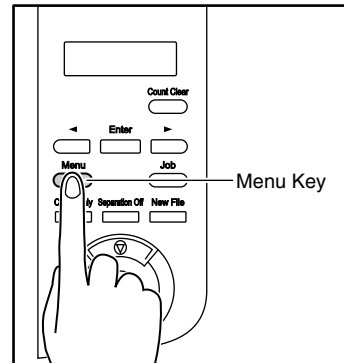
The height of the Document Feed Tray can be adjusted according to the number of document pages to be loaded (the default setting is the lowest position).



Tray Position Setting

The height of the Document Feed Tray is set by the Tray Position in the User Mode setting, which minimizes the time required to start feeding by specifying in advance the proper position for the documents to be loaded.

1. Press the Menu key on the control panel.



The User Mode is activated.

```
Buzzer Control  
[ ON 2 ] ON 1 OFF
```

2. Press the [◀] key five times to display Tray Position.

```
Tray Position  
2 1 [ 0 ]
```

3. Confirm your settings.

For the DR-6050C

[0]: To load up to 300 sheets

[1]: To load up to 100 sheets

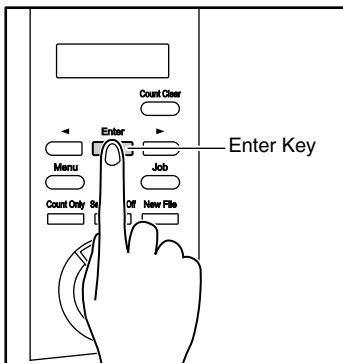
For the DR-7550C/9050C

[0]: To load up to 500 sheets

[1]: To load up to 300 sheets

[2]: To load up to 100 sheets

4. Press [Enter].

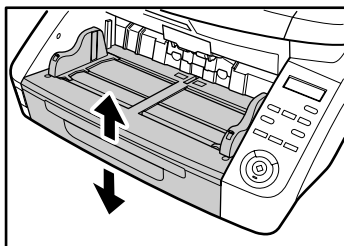


The current setting is indicated by blinking square brackets [].

5. Press the [◀] or [▶] key to select [0], [1] or [2].

6. Press [Enter] to accept the selection.

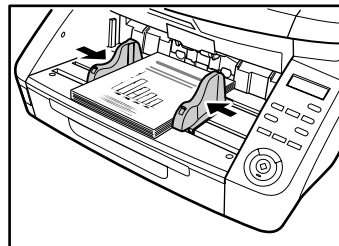
The Document Feed Tray moves to the selected height.



7. Press the Stop key to exit the User Mode.

■ Document Guides

Slide the document guides to fit the width of your document.

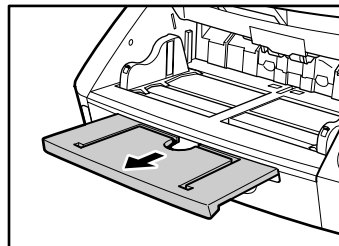


Hint

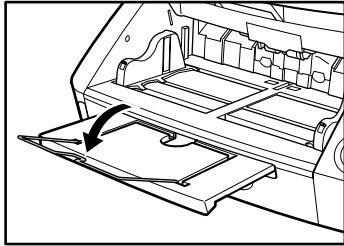
The positions of the left and right document guides can also be locked independently for off-center loading. For details, see “Adjusting the Document Guides” (p. 20).

■ Document Feeder Tray Extension / Extension Wire

Pull out the tray extension as needed for the length of your document.



Gently open the extension wire.



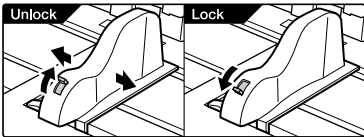
Hint

Use the extension wire if the document extends beyond the edge of the document tray.

Adjusting the Document Guides

The document guides normally extend at equal distances from the left and right of the center of feeding so that your documents are centered in the feed inlet.

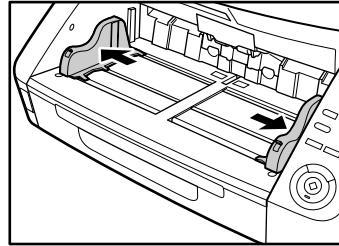
However, each document guide has its own lock lever, so you can load documents to the left or right of center by locking the document guides at the appropriate positions.



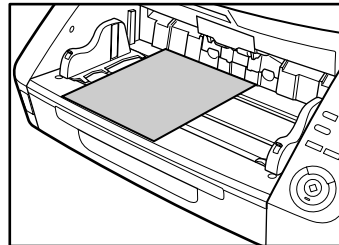
■ Loading Documents at the Left Side

This example shows the procedure for loading documents at the left side of the feeder.

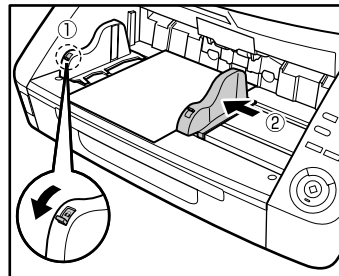
1. Spread the document guides all the way to the left and right.



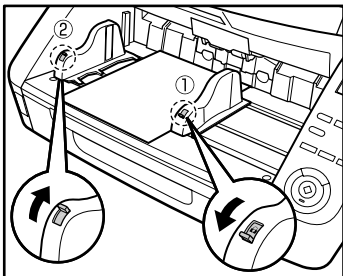
2. Load your documents against the left feed guide.



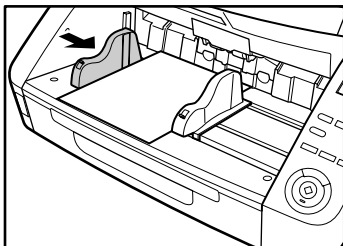
3. Lock the left document guide (①) by pulling out the lock lever, then slide the right document guide to the right edge of your documents (②).



4. Lock the right document guide (①), and unlock the left document guide (②).



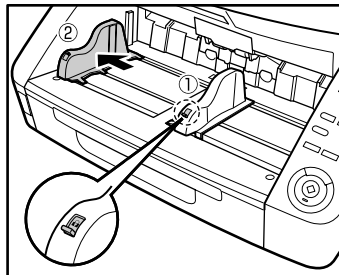
5. Slide the left document guide to the left edge of your documents.



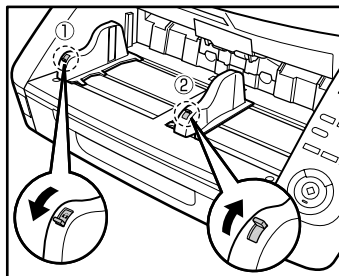
■ Resetting the Document Guides

To reset the guides so that they are equidistant from the center, perform the following procedure to spread the guides to the left and right as far as they will go.

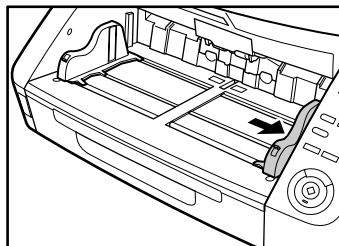
1. Confirm that the right document guide is locked (①), and slide the left guide all the way to the left (②).



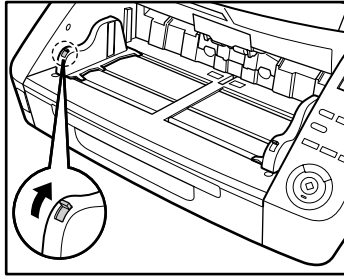
2. Lock the left document guide (①), and unlock the right document guide (②).



3. Slide the right document guide all the way to the right.



4. Unlock the left document guide.



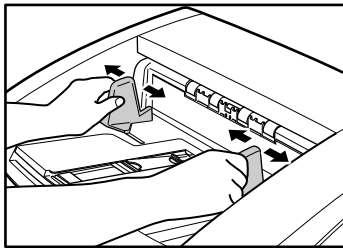
Preparing the Document Eject Tray

The Eject Tray includes two Document Eject Guides, the Eject Tray Extension and Eject Paper Stopper, to be adjusted to fit the width and length of your documents.

■ Document Guides

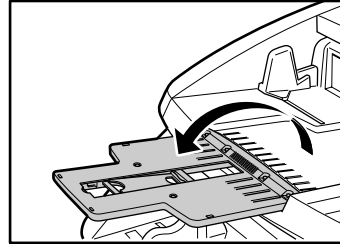
Slide the document eject guides to fit the width of your documents.

The eject position of the document can be checked by feeding a single sheet of the document in Count-Only Mode. For details on the Count-Only mode, refer to the *User Manual*.



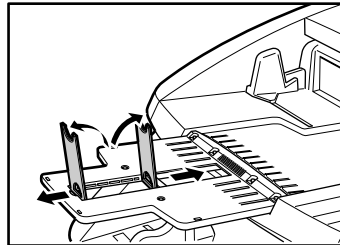
■ Document Eject Tray Extension

Open the Document Eject Tray Extension when documents look like they are going to fall off of the eject tray.



■ Eject Paper Stoppers

Raise the appropriate Eject Paper Stoppers to stop ejected documents from spilling out of the eject tray.



Hint

The eject paper stoppers are attached to the document eject tray extension, so you can adjust their positions to suit your document length.

When an LTR/A4-size paper is loaded, close the document eject tray extension and stand up the upper eject paper stoppers. When an A3-size paper is loaded, open the document eject tray extension and stand up the upper eject paper stoppers.

4. Document Feeding Methods

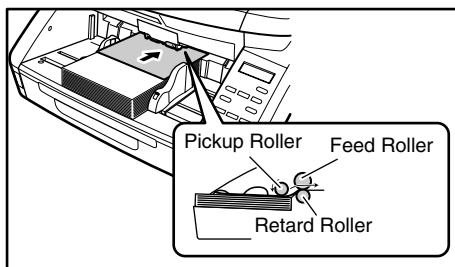
Two document feeding methods are available: Continuous Feeding, which feeds documents automatically from the document tray by the pickup roller; and Manual Feeding, which requires one document at a time to be positioned manually for transport by the feed roller, while the pickup roller is disabled.

Selecting the Document Feeding Method

Continuous Feeding is the default feeding method, but Manual Feeding can be enabled by selecting Manual Feeding as the Feeding Option for the ISIS/TWAIN driver, or by pressing the Separation Off key on the control panel. A Continuous Manual Feeding Mode is also provided as a way to scan a batch of document pages that cannot be automatically transported.

Continuous Feeding

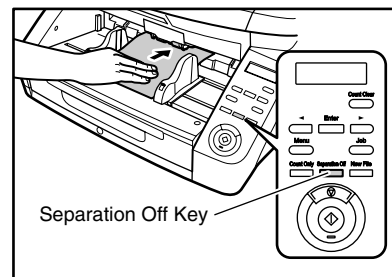
With Continuous Feeding, documents loaded in the Document Feed Tray are picked up automatically by the pickup roller and transported by the feed roller, while the retard roller separates each page to avoid double feeding.



Manual Feeding

The Separation Off key lights and the Document Feed Tray rises so that documents can be fed manually one at a time.

When manual feeding, you must insert each document page far enough to be pulled in by the feed roller (because the pickup roller is disabled).



! IMPORTANT

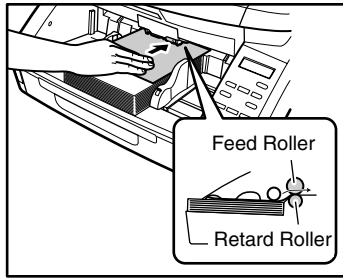
- Because pages are not separated by the retard roller during manual feeding, a paper jam will occur if multiple pages are loaded together.
- To scan bound multi-page documents such as invoice booklets, place the bound edge against the feed inlet and scan using manual feeding.

💡 Hint

- The [Separation Off] key is linked to the [Manual Feeding] Feed Option setting of the ISIS/TWAIN driver.
- When the [Separation Off] key on the control panel is pressed or the [Manual Feeding] Feed Option is selected, the [Separation Off] key lights and the Document Feed Tray rises.

Continuous Manual Feeding Mode

Enable the Continuous Manual Feeding Mode from the User Mode when document pages do not separate well using Continuous Feeding.



! IMPORTANT

When the Continuous Manual Feeding Mode is set to ON from the User Mode, make sure to disable it (set to OFF) when finished scanning. Otherwise, normal continuous feeding will be disabled the next time someone uses the scanner.



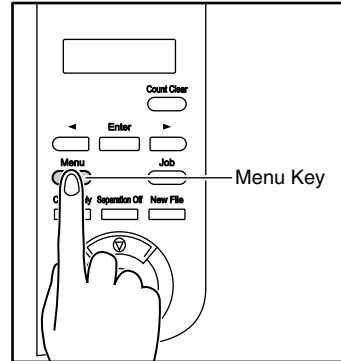
Hint

For Manual Feeding, you must feed document one page at a time. For Continuous Manual Feeding, you must place the documents on the Document Feed Tray and insert them into the Document Feed Tray opening one page at a time, making operation easier.

Continuous Manual Feeding Mode Setting

Select Manual Feed Mode in the User Mode settings to enable continuous manual feeding.

1. Press the Menu key on the control panel.



The User Mode is activated.

```
Buzzer Control  
[ ON 2 ] ON 1 OFF
```

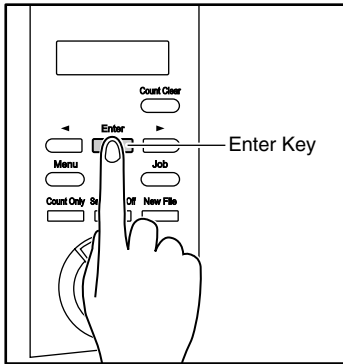
2. Press the [▶] key five times to display "Manual Feed Mode".

```
Manual Feed Mode  
ON [ OFF ]
```

3. Confirm your settings.

[ON]: Disables the pickup roller so that loaded documents have to be hand fed to the feed roller one page at a time.
[OFF]: Documents are fed continuously by the pickup roller, except when the Separation Off key is lit.

4. Press [Enter].



The current setting is indicated by blinking square brackets [].

5. Press the [◀] or [▶] key to select [ON] or [OFF], and press [Enter] to accept the selection.
6. Press the Stop key to exit the User Mode.

5. Scanning

Scanning operations can be controlled by a scanning application program such as the CapturePerfect 3.0 software included with the scanner, or directly from the control panel of the DR-6050C/7550C/9050C, using the Job Function.

This section describes the Job Function and provides an overview of CapturePerfect 3.0.

About the Job Function

The Job Function enables you to use the Job Registration Tool to register different jobs which can then be selected for scanning by pressing the [Job] key on the control panel. Job registration stores scanning condition settings, image file format selection, save destination, and image data processing settings for each job to be used with the Job Function.



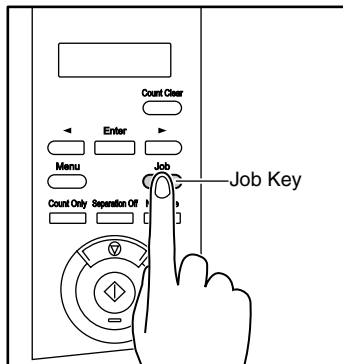
Hint

The Job Registration Tool is a TWAIN-compliant application that is installed along with the ISIS/TWAIN driver. For details, refer to Chapter 9 "Job Registration Tool Settings" in the *User Manual*.

■ Executing Jobs

Use the following procedure to execute jobs that have been registered by the Job Registration Tool.

1. Press the Job key on the control panel.



Registered jobs are displayed.

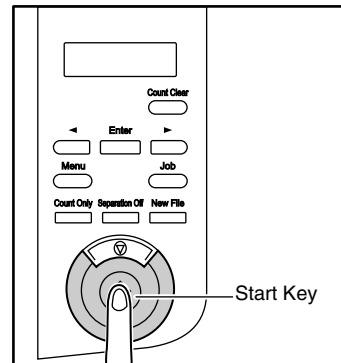
```
0 1 : A 4   B / W   2 0 0  
D o c u m e n t s
```



Hint

If no job is displayed, you must register a job using the Job Registration Tool.

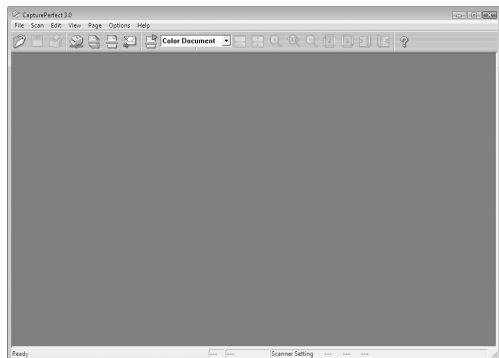
2. Press the [◀] or [▶] key to select a job.
3. Execute the displayed job by pressing the Start key.



4. Open the folder specified during job registration to confirm that the image files have been created.

CapturePerfect 3.0

CapturePerfect 3.0 is an ISIS-compatible application developed for Canon document scanners. CapturePerfect 3.0 includes the following modes. Select the desired scan mode from the Scan menu to perform scanning. For more information on CapturePerfect 3.0, refer to the *CapturePerfect 3.0 Operation Guide*.



■ Scanning with CapturePerfect

The following three scanning methods are available from the CapturePerfect Scan menu.

Scan Batch to Printer

Prints scanned images on a specified printer



Scan Batch to File

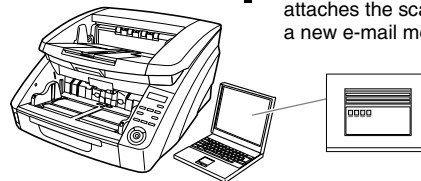
Saves scanned images as files in a specified folder



(Network)

Scan Batch to Mail

Starts your e-mail program and attaches the scanned image to a new e-mail message



Scan Batch to File

Documents are scanned with the preset scanning conditions, and the scanned image data is saved to a specified folder.

Scan Batch to Printer

Documents are scanned with the preset scanning conditions, and the scanned image data is printed on a specified printer.

Scan Batch to Mail

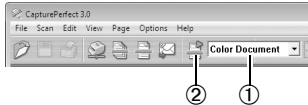
Scanning is performed with the specified scanning conditions, and a MAPI-compliant e-mail client is started to generate a new e-mail message with the scanned images as attachments.

Scan Page

Only one page of the document is scanned.

Scan Job

The scanning conditions and scan mode (Scan Batch to File, Scan Batch to Printer, or Scan Batch to Mail) are registered in advance as a job. The scan job can then be performed by selecting the registered job from the drop-down list (①) or by clicking (Scan Job) on the toolbar (②).



Hint

The following two scan jobs are already registered and up to 99 additional jobs can be registered.

- Color Document
Scan the document using 24-bit color, simplex, at 300 dpi resolution, and save the file in the folder [Pictures].
- Binary Document
Scan the document in black-and-white, simplex, at 200 dpi resolution, and save the file in the folder [Pictures].

Scan To Presentation

This mode is convenient when a compact scanner is used in an environment such as a conference hall, where it is connected to a large display or projector. By setting CapturePerfect for full-screen display before scanning, scanned images are displayed at full size on the screen.

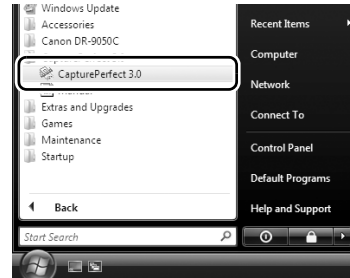
Hint

This function is not usually practical for large scanners.

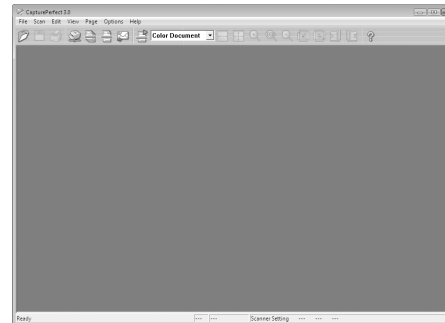
Using CapturePerfect 3.0

This section describes how to start CapturePerfect 3.0 and scan documents. The procedure for using the Scan Batch to File function is described here as an example. For details, refer to the *CapturePerfect 3.0 Operation Guide*.

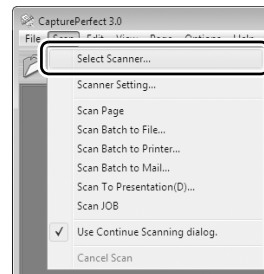
1. From the Windows task bar, click [Start] → click [All Programs] → [CapturePerfect 3.0] → [CapturePerfect 3.0].



CapturePerfect 3.0 starts.

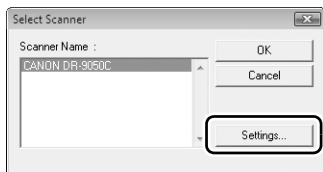


2. From the [Scan] menu, select [Select Scanner].



The [Select Scanner] dialog box opens.

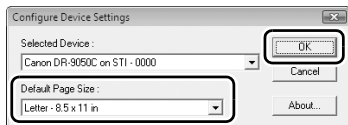
3. Select [CANON DR-XXXX] and click [Settings].
(XXXX varies depending on the model you are using)



! IMPORTANT

If [CANON DR-XXXX] is not displayed in the list of scanners, you must re-install the ISIS/TWAIN driver.

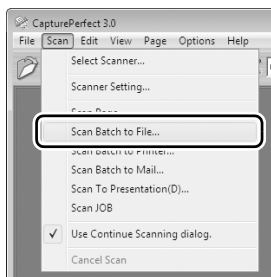
4. Select the default page size and click [OK].



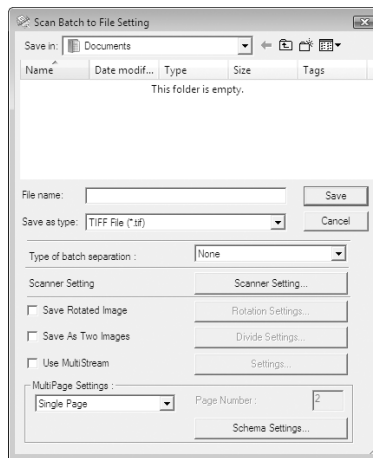
! IMPORTANT

If you select [Default] in the ISIS driver properties dialog box, that setting is applied here.

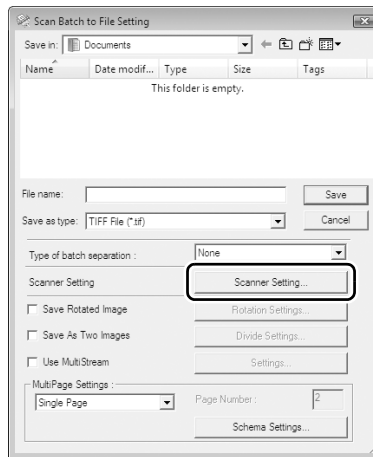
5. Click [OK] to finish scanner selection.
6. From the [Scan] menu, select [Scan Batch to File].



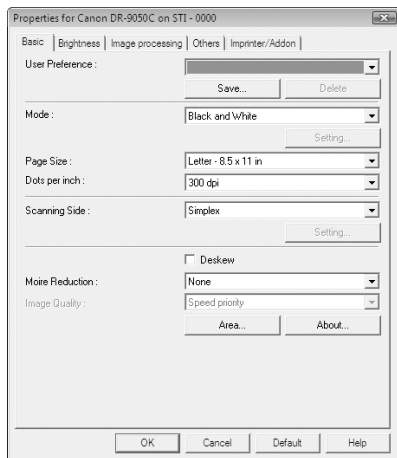
The [Scan Batch to File Setting] dialog box opens.



7. Click the [Scanner Setting] button.



The Properties dialog box for the ISIS driver opens.



8. Set the scan settings.



Hint

For details on the Properties dialog box, refer to the *User Manual*.

9. Click the [OK] button to exit the scanner settings.

10. Specify the file name and the file type for saving the image data.

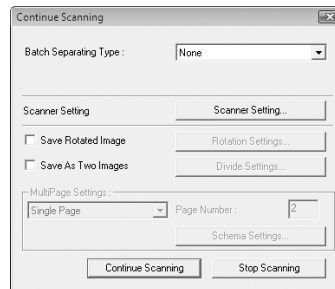
For details on the available settings in the [Scan Batch to File Setting] dialog box, refer to the *CapturePerfect 3.0 Operation Guide*.

11. Place your document and click [Save] to start scanning.

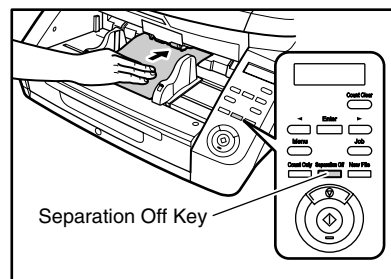
! IMPORTANT

You must load your documents as described below, depending on the specified Feed Option setting.

- If the [Standard Feeding] Feed Option is enabled, load your documents before scanning. When all of the documents have been scanned, the Continue Scanning dialog box appears.

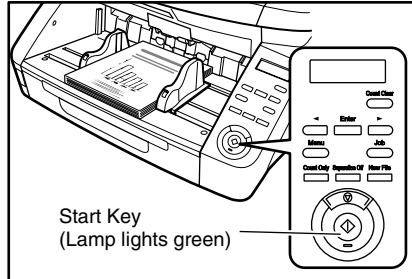


- If the [Manual Feeding] Feed Option is enabled, the Separation Off key is lit and the Document Feed Tray is raised. You must insert one page at a time to be scanned, and press the Stop key to display the Continue Scanning dialog box.



- If a Feed Option other than [Standard Feeding] or [Manual Feeding] is selected, once you have started scanning, each document placed in the Document Feed Tray is scanned, and when no document is loaded, the scanner enters the standby state.

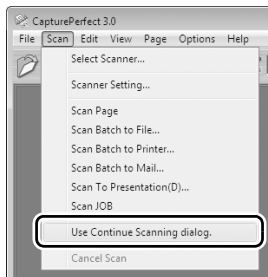
- If the [Automatic Feeding] Feed Option is enabled, scanning is performed automatically whenever a sensor in the Document Feed Tray detects a loaded document, and pressing the Stop key causes the Continue Scanning dialog box to appear.
- If the [Panel-Feeding] Feed Option is enabled, the Start key lamp is lit. You must load a document and press the Start key to scan. Pressing the Stop key causes the Continue Scanning dialog box to appear.



- 12.** When the [Continue Scanning] dialog box appears, verify that a document is loaded, and click either [Continue Scanning] or [Stop Scanning].

! IMPORTANT

If Use Continue Scanning dialog in the [Scan] menu is not checked, scanning finishes without displaying the Continue Scanning dialog box.



- 13.** When scanning is complete, select [Exit] from the [File] menu to quit CapturePerfect 3.0.

6. Clearing a Paper Jam or Double Feed Error

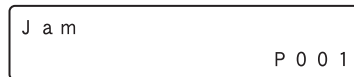
If a paper jam or double feed occurs during scanning, a paper jam message appears on the PC and on the scanner's display panel. Use the following procedure to clear the paper jam.

⚠ CAUTION

- When removing jammed paper, take care not to cut your hands on the edges of the paper.
- Make sure to remove all of the jammed paper. Torn paper remaining in the scanner may cause future jams or damage to the scanner.
- When opening and closing the upper unit, be careful not to get your fingers caught, as this may result in personal injury.

Paper Jam Handling

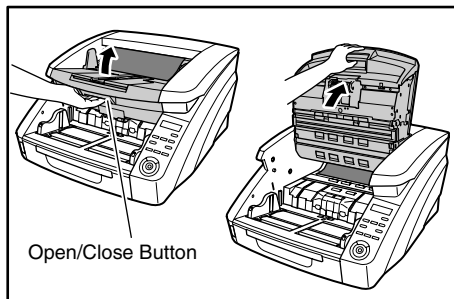
When a paper jam occurs during scanning, the following message appears on the display panel, and transport stops.



💡 Hint

The displayed error code indicates the location of the paper jam. For details, see "Error Messages" on p. 49.

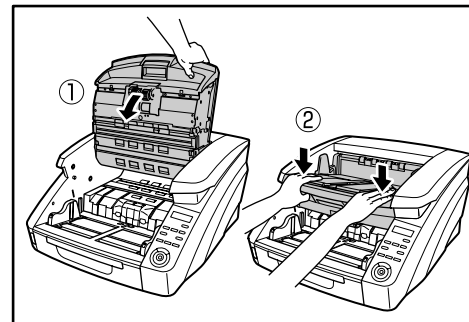
1. Remove any documents that remain in the eject tray.
2. Press the Open/Close button and gently raise the upper unit.



3. Remove the jammed paper.

⚠ IMPORTANT

- If paper has stopped in the midst of ejecting to the eject tray, raise the upper unit slightly to remove it.
 - To remove paper that has stopped inside the scanner, open the upper unit as far as it will go.
4. Close the upper unit slowly (①). Make sure that the upper unit is completely closed by pushing on both edges with both hands until you hear a click (②).



5. Check to verify the last saved image, and resume scanning.

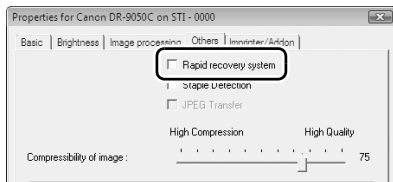
■ When “Press Start Key” Appears

When the Rapid Recovery System is enabled in the ISIS/TWAIN driver settings, the following message appears on the display panel after you remove the jammed paper.

Press Start Key

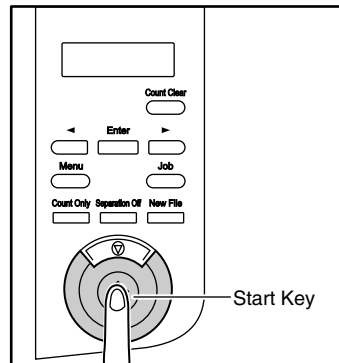
! IMPORTANT

The Rapid Recovery System setting in the ISIS/TWAIN driver causes the following process to occur after a paper jam.



- When the Rapid Recovery System is disabled, images scanned before the paper jam occurs are saved as files, scanning finishes, finished and an error message is displayed. In this case, restart scanning from the document page where the paper jam occurred, or from the beginning.
- When the Rapid Recovery System is enabled, scanning pauses when a paper jam is detected, and an error message is displayed.

Return the jammed document page to the top of the document stack yet to be scanned, and press the Start key to resume scanning.

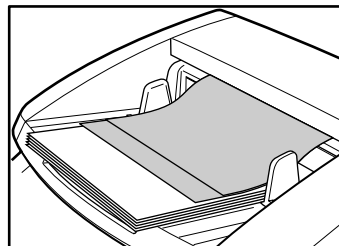


! IMPORTANT

- When you press the Start key, the image of the document page that caused the paper jam is deleted before scanning resumes.
- If you press the Stop key, the images of pages prior to the paper jam being detected are saved and the scan ends. In this case, restart scanning from the document page where the paper jam occurred, or from the beginning.

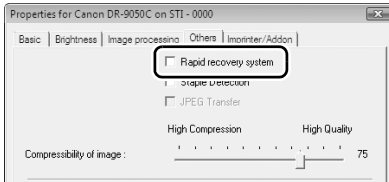
Handling a Double Feed

When a double feed is detected while scanning, an error message appears on the PC and on the display panel, and transport stops.



! IMPORTANT

When a double feed is detected, the following process occurs, and messages appear according to the Rapid Recovery System setting in the ISIS/TWAIN driver.



- When the Rapid Recovery System is disabled, images scanned before the double feed are saved as files, scanning finishes, and the following error message is displayed.

When detecting double feeds by document length

```
DBL Feed
D O O 2
```

When detecting double feeds ultrasonically

```
DBL Feed
D O O 4
```

- When the Rapid Recovery System is enabled, scanning pauses when a double feed is detected, and the following error message is displayed.

```
DBL Feed
[ I G N O R E ] R E T R Y
```

■ When the Rapid Recovery System is Disabled

Return the double-fed document pages to the top of the document stack yet to be scanned, and resume scanning.

■ When the Rapid Recovery System is Enabled

1. Check the double-fed document page(s).



Hint

- If attached paper, such as a label on the document page, appears to be the cause of the double-feed detection, ignore the detection.
- If two document pages were fed together, rescan the double-fed pages.

2. Press [◀] or [▶] to select [IGNORE] or [RETRY] and press the [Enter] key.

```
DBL Feed
[ I G N O R E ] R E T R Y
```

[IGNORE]:

Saves the image of the page that was detected as a double feed, and resumes scanning.

[RETRY]:

The display panel appears as below. Return the double-fed document pages to the tray and press the Start key.

```
Press Start Key
```

! IMPORTANT

- Press the Start key to erase the image that was being scanned when double feeding was detected, and resume scanning.
- If you press the Stop key, the images of pages prior to the double feed being detected are saved and the scan ends. In this case, restart scanning from the document page where the double feed is detected, or from the beginning.

Chapter 3 Maintenance

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1. Regular Maintenance

To maintain scanning quality, routinely clean the scanner as described below.

⚠ CAUTION

- Do not use spray cleaners to clean the scanner. Precision mechanisms may get wet and malfunction.
- Never use paint thinner, alcohol, or other organic solvents to clean the scanner. Such solvents may deform or discolor the exterior of the scanner, and cause other damage.
- When opening and closing the upper unit, be careful not to get your fingers caught, as this may result in personal injury.

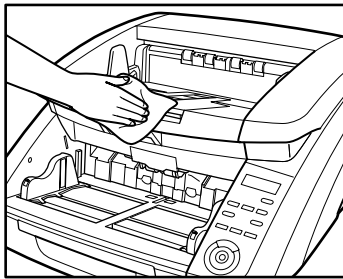
Cleaning the Scanner

■ About the Cleaning Cloth

Use the cleaning cloth supplied with the scanner to clean its interior.

■ Cleaning the Scanner Exterior

To clean the outside of the scanner, use a cloth moistened with water or mild detergent solution. Wring out the cloth thoroughly, and use a clean dry cloth to wipe the scanner dry.



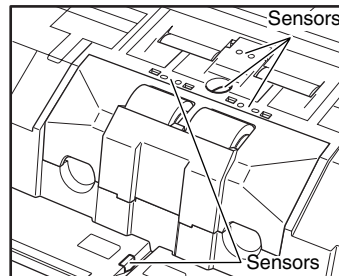
■ Cleaning the Document Feed Inlet and Transport Path

Dust or paper particles in the document feed inlet or inside the scanner can cause spots to appear in scanned images. Use compressed air to periodically clean dust and paper particles from the inlet and the inside of the scanner. After completing large scanning jobs, turn OFF the scanner and clean out any paper particles.

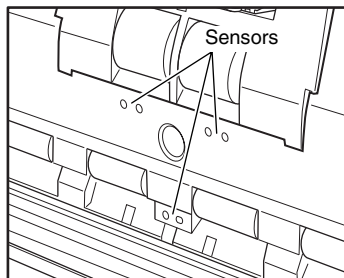
Cleaning the Sensors

Dust and debris that collect on the sensors may cause documents to be recognized incorrectly. Clean the sensors periodically using a blower, etc. so that dust and debris do not collect on them.

Main unit inner lower side



Main unit inner upper side (Upper Unit)



Cleaning the Scanning Glass and Rollers

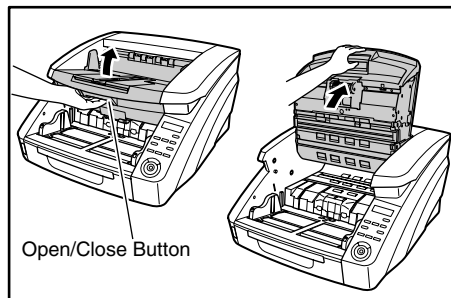
If scanned images contain spots or documents become dirty after scanning, the scanning glass or transport rollers inside the scanner may be dirty. Please clean periodically.

! IMPORTANT

Scratches on the scanning glass may cause spots or streaks on scanned images, as well as feeding errors. If you find a scratch on the scanning glass, contact your local authorized Canon dealer or service representative to have the glass replaced.

1. Turn the power switch off, and disconnect the power plug from the power outlet.
2. Close the document eject tray extension if it is open.

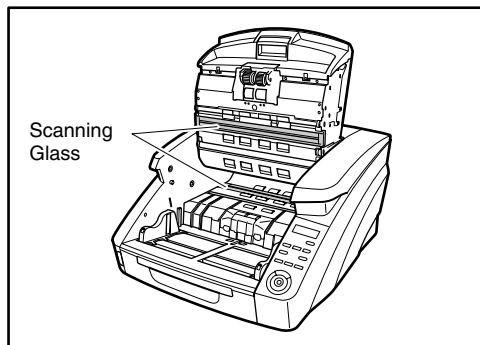
3. Press the Open/Close button and carefully raise the upper unit until it stops.



4. Wipe any dust off the scanning glass with a cleaning cloth or a clean, dry cloth. Make sure that you clean both scanning glasses, the one below and one above.

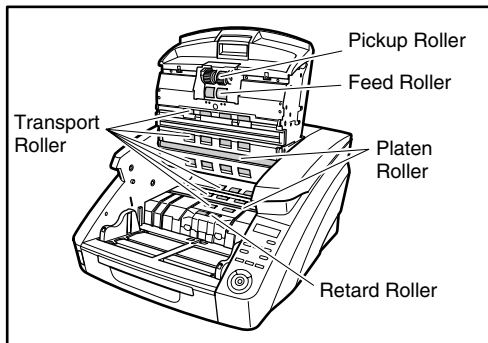
! CAUTION

Never spray mild detergent or water directly on the scanning glasses. The spray could penetrate below the glass, and contaminate the internal light source and lenses.



5. Wipe the rollers using a moistened and firmly wrung-out cloth while rotating the rollers.

The rollers are located at the positions indicated in the figure below.

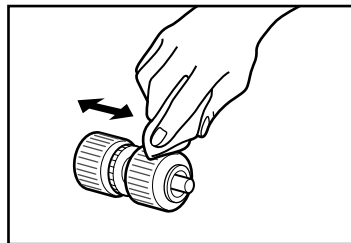


6. Remove the Pickup Roller, Feed Roller, and Retard Roller. (See “Removing and Reinstalling the Rollers” on p. 41.)

! IMPORTANT

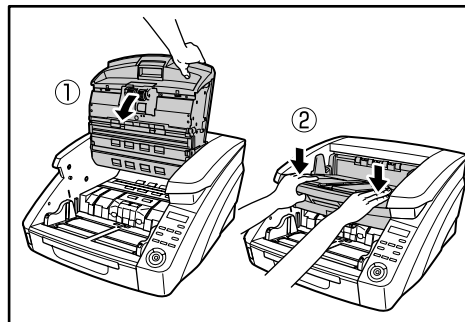
Wipe the Pickup Roller, Feed Roller, and Retard Roller after removing them.

7. Wipe the rollers that you removed using a moistened and firmly wrung-out cloth.



8. Replace the rollers that you removed. (See “Removing and Reinstalling the Rollers” on p. 41.)

9. Gently lower the upper unit (①). Press down on both sides of the upper unit to ensure that it is securely closed (②).



! IMPORTANT

If paper jams or double feeds occur frequently even after cleaning the rollers, the probable cause is the roller friction. If this happens, replace the rollers. Contact your service representative.

Power Outlet

If you leave the power plug connected to the power outlet for a long period of time, dust may accumulate at the power outlet, and cause a fire or electrical shock. Clean the power plug and power outlet regularly.

2. Replacing the Transport Rollers

As the rollers start to wear out, feeding quality declines, and document feed errors, such as paper jams, become more likely. If document feed errors continue to occur after cleaning the rollers, purchase the Roller Replacement Kit and replace the transport rollers (pickup, feed, and retard rollers).

Roller Replacement Cycle

The feeding rollers are consumables that must be replaced after feeding about every 250,000 pages. When the rollers have fed more than 250,000 pages, a roller replacement message appears on the display panel whenever the scanner is turned ON. When the scanner is configured to reboot with the computer, a roller replacement message also appears on the computer screen.

R e p l a c e R o l l e r

! IMPORTANT

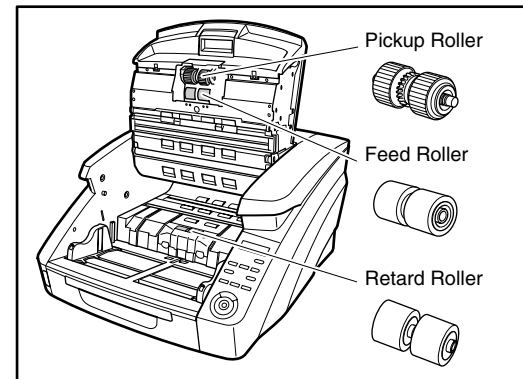
- When the roller replacement message appears, purchase the Roller Replacement Kit and replace the rollers by following the relevant steps in the removing and reinstalling procedures.
 - (See “Removing and Reinstalling the Pickup Roller” on p. 41.)
 - (See “Removing and Reinstalling the Feed Roller” on p. 42.)
 - (See “Removing and Reinstalling the Retard Roller” on p. 44.)
- When the rollers start to wear out, problems such as paper jams and document misfeeds may occur more frequently. If this happens, replace the rollers, regardless of the page count of the roller usage counter.
- Messages on the display panel can be cleared by pressing the Count Clear key. However, the messages will continue to be displayed each time the scanner is turned ON until the roller counter is reset.
- Make sure to reset the roller counter when replacing the rollers. (See “Checking and Resetting the Page Counter” on p. 39.)

Roller Replacement Kit

The Roller Replacement Kit consists of replacement pickup, feed, and retard rollers. For details, contact your local authorized Canon dealer or service representative.

Product Name: Roller Replacement Kit

Product Code: 4009B001



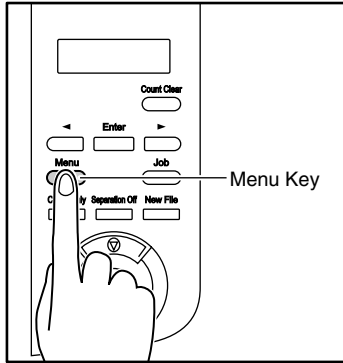
Checking and Resetting the Page Counter

The roller usage counter can be checked and reset using the Roller Counter in the User Mode setting.

! IMPORTANT

- This counter shows the number of pages transported by the currently installed feed rollers. Make sure to reset the counter when you replace the rollers.
- The Total Counter shows the total number of pages fed over the life of the scanner, and cannot be reset.

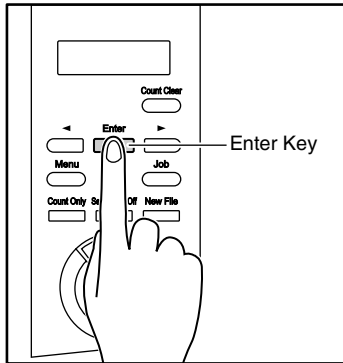
1. Press the Menu key on the control panel to activate the User Mode.



2. Press the [◀] key twice to display [Roller Counter].



3. Check the number of pages fed by the rollers, and press [Enter].

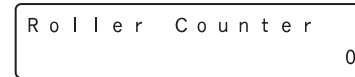


The counter reset mode is activated.



4. Press the [◀] key to select [RESET], and press [Enter].

The counter is reset to zero.



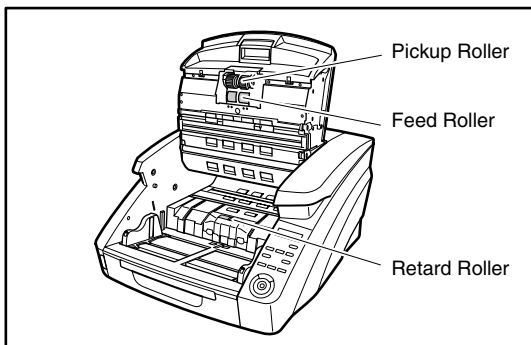
5. Press the [Stop] key to exit the User Mode.

Removing and Reinstalling the Rollers

Follow the procedure shown below to remove and reinstall the rollers when you need to clean or replace the Pickup, Feed, or Retard Rollers.

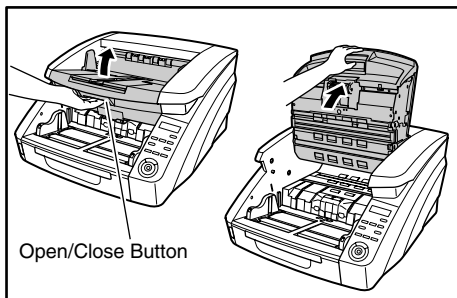
⚠ CAUTION

- Turn OFF the power switch, and disconnect the power plug from the power outlet when you remove or reinstall the rollers. Leaving the power turned ON may result in an electric shock.
- Do not place excessive force on the rollers when removing or reinstalling the rollers. Deformation of the rollers may cause feed errors.

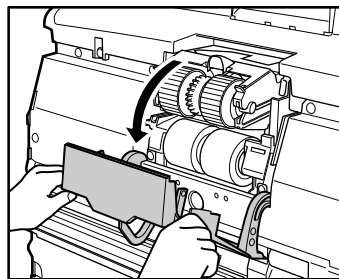


■ Removing and Reinstalling the Pickup Roller

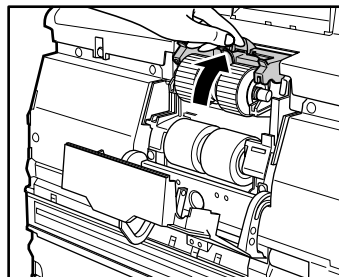
1. Press the Open/Close button and carefully raise the upper unit until it stops.



2. Open the roller cover.



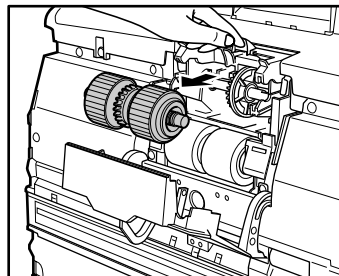
3. Open the roller holder.



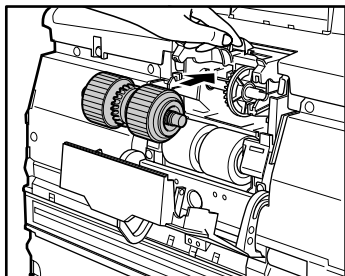
💡 Hint

The roller holder returns to its original position when released.

4. Remove the pickup roller.

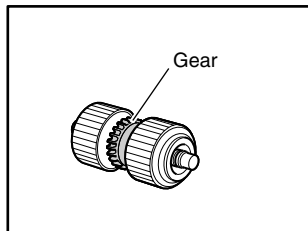


5. Open the roller holder, and insert the new pickup roller.

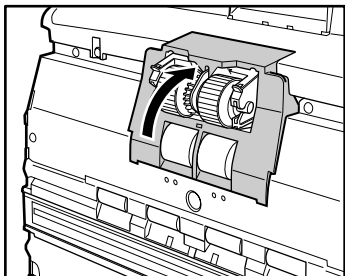


! IMPORTANT

Install the Pickup Roller so that side with the gear is on the left.



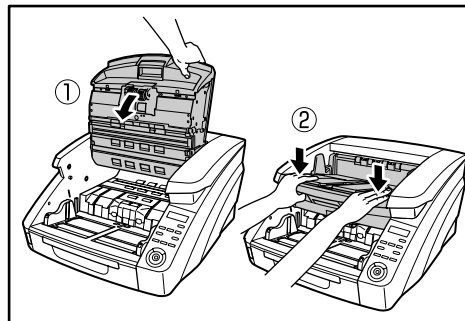
6. Close the roller cover. Check that it makes a latching sound and that it is securely returned to its original position.



! IMPORTANT

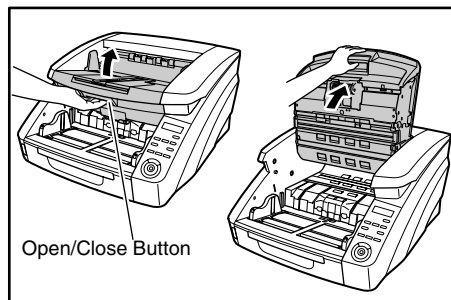
Failure to firmly close the roller holder and roller cover may cause a feed error. Always be sure to check that the roller holder and roller cover are closed.

7. Gently lower the upper unit (①). Press down on both sides of the upper unit to ensure that it is securely closed (②).

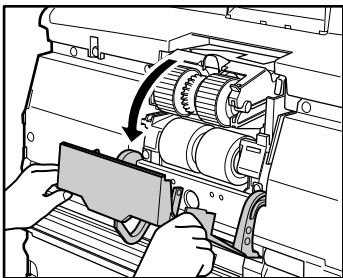


■ Removing and Reinstalling the Feed Roller

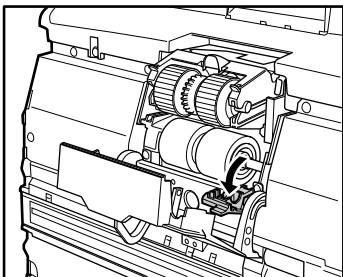
1. Press the Open/Close button and carefully raise the upper unit until it stops.



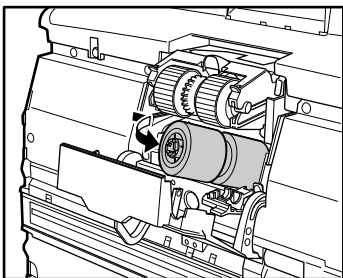
2. Open the roller cover.



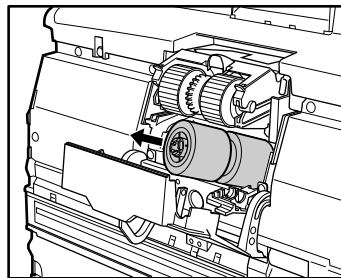
3. Pull the roller lock lever down.



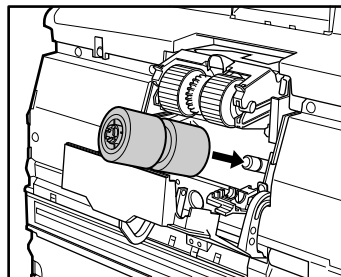
4. Slide the feed roller to the right, and then pull them towards you.



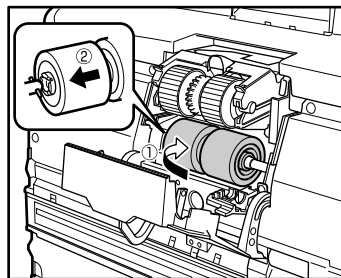
5. Remove the feed roller.



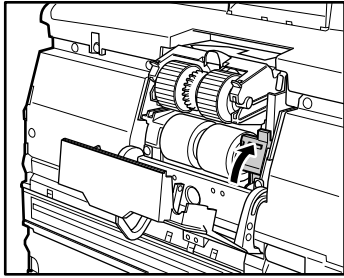
6. Place the new feed roller on the pin.



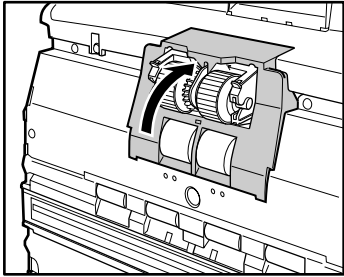
7. Put the feed roller in place (①), and align the notch in the roller's axle with the shaft on the scanner (②).



8. Push the roller lock lever up to lock the feed roller.



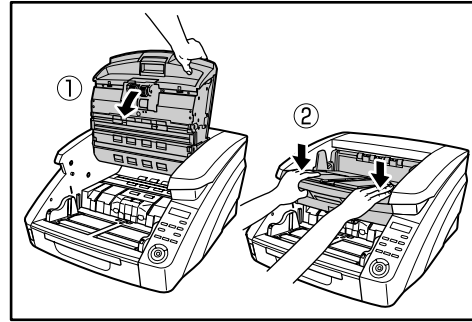
9. Close the roller cover. Check that it makes a latching sound and that it is securely returned to its original position.



! IMPORTANT

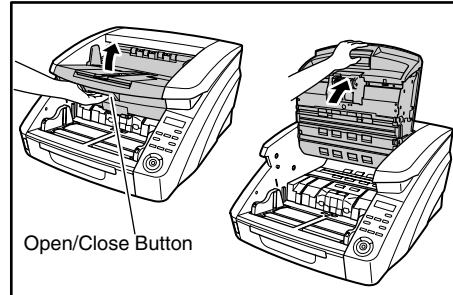
Failure to firmly close the roller cover may cause a feed error.
Always be sure to check that the roller cover is closed.

10. Gently lower the upper unit (①). Press down on both sides of the upper unit to ensure that it is securely closed (②).

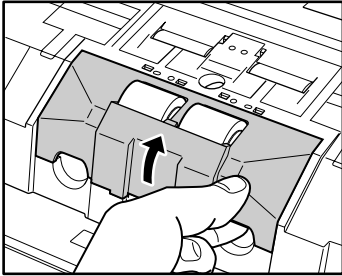


■ **Removing and Reinstalling the Retard Roller**

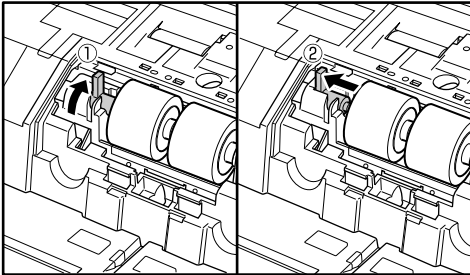
1. Press the Open/Close button and carefully raise the upper unit until it stops.



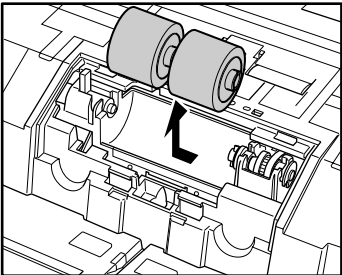
2. Grasp the roller cover with your fingers, and pull it up to remove it.



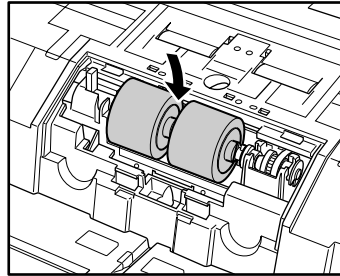
3. Push the roller lock lever up (1) and move it to the left (2) to unlock the roller.



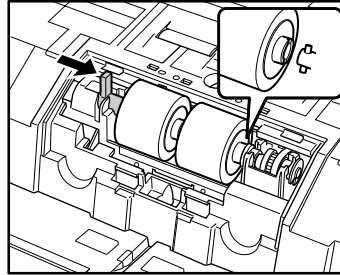
4. Remove the retard roller.



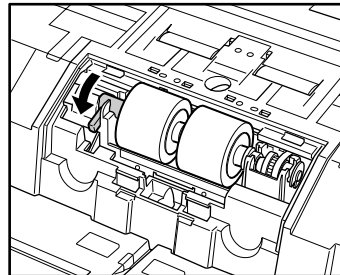
5. Set the retard roller into place in the scanner.



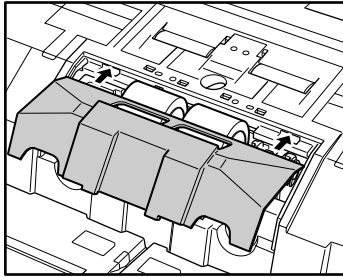
6. Align the notches in the roller with the shaft pins in the scanner, then slide the roller lock lever in the direction indicated by the arrow.



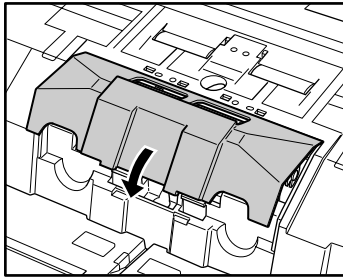
7. Pull the roller lock lever down to lock the retard roller in place.



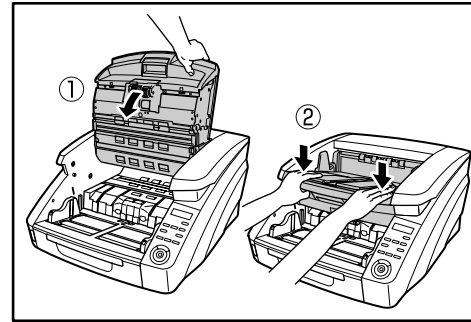
8. Replace the roller cover.



9. Push the front of the roller cover in. Check that it makes a latching sound and that it is securely returned to its original position.



10. Gently lower the upper unit (①). Press down on both sides of the upper unit to ensure that it is securely closed (②).



⚠ CAUTION

Make sure that the hook is completely latched and the roller cover is not loose. If the roller cover is loose, the Document Feed Tray will catch on it causing the scanner to malfunction.

Chapter 4 Practical Examples

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1. Messages

There are two types of display panel messages: “status indicator messages” and “error messages” that appear when the scanner encounters a problem.

Status Display

The following messages appear on the display panel to indicate the scanner’s operating state:

■ Counting...

C o u n t i n g . . .
X X X X X

Status: Operating in Count-Only mode.

■ Press Start Key

P r e s s S t a r t K e y

Status: Waiting. Load a document and press the Start key.

■ Ready

R e a d y
0 0 0 0 0

Status: The scanner is ready to use.

■ Scanning...

S c a n n i n g . . .
X X X X X

Status: Scanning is in progress.

■ Sleeping...

S l e e p i n g . . .

Status: The scanner is entering the Sleep mode. Press any key to recover.

■ Please wait...

P l e a s e w a i t . . .

Status: The scanner is busy processing. Wait until the display changes.

■ Verifying...

V e r i f y i n g . . .
X X X X X

Status: The scanner is verifying a scan.

■ Replace Roller

R e p l a c e R o l l e r

Status: It is time to replace the rollers (the number of fed pages has exceeded 250,000). (See “Roller Replacement Cycle” on p. 39.)

Error Messages

When one of the following messages appears on the display panel, an error has occurred in the scanner. Follow the indicated procedure to resolve the error.

■ Check Imprinter

```
C h e c k   I m p r i n t e r
                               H 0 0 1
```

Error Code: H001

Problem: No ink cartridge is installed in the imprinter.

Solution: Install an ink cartridge.

■ Cover Open

```
C o v e r   O p e n
                               C 0 0 1
```

Error Code: C001

Problem: The scanner's upper unit is open.

Solution: Close (lower) the upper unit. (See p. 38.)

Error Code: C009

Problem: The imprinter cover is open.

Solution: Close the imprinter cover.

Error Code: C010

Problem: The pickup roller cover is open.

Solution: Close the pickup roller cover. (See p. 42.)

■ Jam

```
J a m
                               P 0 0 1
```

Error Code: Pxxx

Problem: Paper has jammed.

Solution: Open the upper unit and remove the jammed paper. (See p. 32.)



Hint

The displayed error code indicates the location of the paper jam.

- P001, P002: The document is jammed near the feed inlet.
- P004: The document is jammed inside the scanner.
- P006, P007: The document is jammed near the eject outlet.
- * P001, P006 can be considered to be due to the document feed speed being too fast or the leading edge of the document not feeding correctly.

■ Call for Service

```
C a l l   f o r   S e r v i c e
                               E 0 0 0
```

Error Code: Exxx

Problem: Internal scanner error.

Solution: Turn the power OFF, and restart the scanner. If this does not solve the problem, make a note of the error code, and contact your Canon service representative.

■ Skew Detected

```
S k e w   D e t e c t e d
                               J 0 1 8
```

Error Code: J018

Problem: A skewed document page contacted the wall of the transport path.

Solution: Remove and reposition the document page.

■ Double Feed

DBL Feed
D 0 0 4

Error Code: D002

Problem: A double feed was detected by the document length.

Solution: Remove the double fed document page(s), return them to the Document Feed Tray, and scan again. (See p. 33.)

Error Code: D004

Problem: A double feed was detected ultrasonically.

Solution: Remove the double fed document page(s), return them to the Document Feed Tray, and scan again. (See p. 33.)

■ Double Feed (Rapid Recovery System)

DBL Feed
[I G N O R E] R E T R Y

Problem: Double feeding of document pages has been detected while scanning with the Rapid Recovery System enabled.

Solution: Remove the double fed document page(s), return them to the Document Feed Tray, and scan again. (See p. 33.)

■ Staple Detected

S t a p l e D e t e c t e d
J 0 0 1

Error Code: J001

Problem: A stapled document has been detected.

Solution: Remove the staple(s), and rescan the document.

■ Tray Error

T r a y E r r o r
E 0 2 1

Error Code: E021

Problem: An error has occurred with the Document Feed Tray.

Solution: Turn the power OFF, and restart the scanner.

■ Count Mismatch

C o u n t M i s m a t c h
U 0 0 1

Error Code: U001

Problem: The specified count has not yet been reached.

Solution: Check the document count, and scan again.

Error Code: U002

Problem: Scanning finished without reaching the specified count.

Solution: Check the document count, and scan again.

2. Troubleshooting

This section describes the problems that may occur during use of the scanner and how to solve them.

Trouble Categories

The following trouble categories are addressed:

- The Scanner Does Not Turn ON (See p. 51)
- The Scanner Is Not Recognized (Connecting via USB) (See p. 51)
- The Scanner Is Not Recognized (Connecting via SCSI) (See p. 51)
- Scanning Is Not Performed (See p. 52)
- Slow Scanning Speed (See p. 52)
- Documents Do Not Feed Properly (See p. 53)
- Saved Image Files Do Not Open (See p. 53)
- Scanning Results Are Not as Expected (See p. 53)

If you cannot resolve a problem, contact your local authorized Canon dealer or your service representative.

Problem and Solution

■ The Scanner Does Not Turn ON

If the scanner does not turn ON, first confirm the following:

- ✓ Is the power cord connected correctly?
- ✓ Is the power cord inserted into the power outlet?

■ The Scanner Is Not Recognized (Connecting via USB)

If the scanner's USB connection is not recognized, first confirm the following:

- ✓ Are the scanner and PC connected correctly using the proper cable?
- ✓ Is the scanner's power switch turned ON?

If this does not solve the problem, consider the following possible causes:

Cause	The scanner does not support your USB interface.
-------	--

Solution	This product is not guaranteed to operate with all types of USB interfaces. Contact your local authorized Canon dealer or service representative for more information.
----------	--

Cause	The scanner does not support the USB cable.
-------	---

Solution	Use the USB cable provided with the scanner.
----------	--

Cause	The USB hub is not compatible with the scanner.
-------	---

Solution	Remove the USB hub.
----------	---------------------

■ The Scanner Is Not Recognized (Connecting via SCSI)

If the scanner's SCSI connection is not recognized, first confirm the following:

- ✓ Are the scanner and PC connected correctly using the proper cable?
- ✓ Is the scanner's power switch turned ON?
- ✓ Is the SCSI card in the PC operating properly?
- ✓ Was the PC turned ON before the scanner?

❗ IMPORTANT

When using the SCSI connection, if the scanner is turned ON after the PC, it may not be properly recognized by the PC.

If this does not solve the problem, consider the following possible causes:

Cause	The SCSI card is not compatible with the scanner.
-------	---

Solution	Use a recommended SCSI card.
----------	------------------------------

Cause	The scanner's SCSI ID is identical to the SCSI ID of another device.
-------	--

Solution	Check the SCSI IDs of all SCSI devices connected to the system and set a unique SCSI ID for the scanner.
----------	--

Cause	The terminator is not set correctly.
-------	--------------------------------------

Solution	When another SCSI device is connected between the scanner and the PC, that device's terminator must be disabled (set to OFF).
----------	---

Cause	There is a problem with another SCSI device that is connected in the daisy chain.
-------	---

Solution	Do not use the daisy chain connection configuration.
----------	--

■ Scanning Is Not Performed

If scanning does not start when it should, first confirm the following:

- ✓ Are the scanner and PC correctly connected with the proper cable?
- ✓ Is the scanner's power switch turned ON?

If this does not solve the problem, consider the following possible causes:

Cause	The ISIS/TWAIN driver and Job Registration Tool are not installed correctly.
-------	--

Solution	Uninstall and then reinstall the ISIS/TWAIN driver and Job Registration Tool.
----------	---

! IMPORTANT

- If the scanner does not operate because of a system error, turn the scanner OFF and wait at least 10 seconds before turning it back ON. If errors continue to occur, reboot the scanner and computer.
- When scanning with configurations that use a large amount of the computer's memory, scanning will be performed properly for the first scan. However, if a second scan is performed with the same configurations, an error may occur due to insufficient memory and scanning may not be possible. In such cases, restart the application you are using and change the configurations before scanning again.

■ Slow Scanning Speed

If the scanning speed is slow, first confirm the following: Scanning may be slow if the USB interface does not support Hi-Speed USB 2.0.

- ✓ Does the PC's USB interface support only Full-Speed USB 1.1?
- ✓ Is the USB cable you are using the one that was supplied with the scanner (Hi-Speed USB 2.0 compliant)?
- ✓ Is a USB 1.1-compliant device connected to the USB hub at the same time?

If this does not solve the problem, consider the following possible causes:

Cause	Other applications are running in the background on your PC.
-------	--

Solution	Quit all other applications that are running.
----------	---

Cause	Resident applications, such as anti-virus software, are draining memory resources.
-------	--

Solution	Quit all resident applications.
----------	---------------------------------

Cause	Temporary files cannot be created in the TEMP folder, as there is not enough free space on the hard disk.
-------	---

Solution	Delete unnecessary files on the hard disk to increase free space.
----------	---

■ Documents Do Not Feed Properly

If a document does not feed properly, first confirm the following:

- ✓ Are pages sticking together because of static electricity or another cause?
- ✓ Are you attempting to scan a document with size, paper thickness or quality that is not supported by the scanner? (See “Documents” on p. 15.)
- ✓ Are the feed rollers dirty?
- ✓ Are the feed rollers worn out?

! IMPORTANT

- Double feeding occurs when document pages stick together, and incompatible paper thickness or quality can cause paper jams. Check your documents carefully before loading.
- Replacement rollers can be purchased as consumables. If performance is not improved after cleaning the rollers, contact your local Canon dealer or service representative to purchase a Roller Replacement Kit, and replace the rollers (pickup, feed and retard rollers). (See “Replacing the Transport Rollers” on p. 39.)

If this does not solve the problem, consider the following possible problems and causes:

Problem	Documents do not feed.
Cause	The Continuous Manual Feed Mode is enabled.
Solution	Set the Continuous Manual Feed Mode to [OFF] from the User Mode. (See “Continuous Manual Feeding Mode Setting” on p. 24.)

■ Saved Image Files Do Not Open

If image files saved by CapturePerfect 3.0 cannot be opened by another application, first confirm the following:

- ✓ Does the application you are using support CapturePerfect 3.0 image file types (*.bmp, *.tif, *.jpg and *.pdf)?

If this does not solve the problem, consider the following possible causes:

Cause	The application does not support multi-page TIFF files.
Solution	Open the files using an application that supports multi-page TIFF files, or save the images as single-page TIFF files using CapturePerfect 3.0.

Cause	The compression format used by CapturePerfect 3.0 is not supported.
Solution	Open the image file with CapturePerfect 3.0, set the compression format to [None], and save it again.

■ Scanning Results Are Not as Expected

If the scanned images do not appear as expected, one or more ISIS/TWAIN driver settings may be incorrect, or your application may not support certain scanner functions.

Problem	The scanned image is too dark (or faint).
Cause	The [Brightness] setting is not set to an appropriate value.
Solution	If the image is too dark, set a higher brightness setting, or if the image is too faint, set a lower brightness setting.

Problem	Text or images from the back side of your document appear in the scanned image.
Cause	Brightness may be set too low.
Solution	Increase the Brightness setting. Or, enable the [Prevent Bleed Through/Remove Background] setting.
Cause	The paper is too thin.
Solution	Photocopy the document, and scan the copy.

Problem	Double-sided scanning is not possible.
Cause	Scanning Side is set to [Simplex].
Solution	Set Scanning Side to [Duplex]. If the Scanning Side is set to [Skip blank page], images of blank pages are not saved.

Problem	A black margin appears around the scanned document.
Cause	A document smaller than the preset paper size has been scanned. Or, the loaded document has shifted out of position.
Solution	Choose one of the following: (1) Set [Page size] to [Auto-detection]. (2) Adjust the margin setting in a single direction. (3) Enable Border Removal.

Problem	The scanned image is skewed. (skew)
Cause	The document has been fed at an angle.
Solution	Slide the document guides to fit the width of your document.

Problem	Lines, smudges, or dirt appear on the scanned image.
Cause	The scanning glass or rollers inside the scanner are dirty.
Solution	Clean the scanning glass and rollers. (See “Regular Maintenance” on p. 36.) If lines still appear on the image even after you clean the scanning glass and rollers, the scanning glass inside the scanner may be scratched. Contact your local authorized Canon dealer or service representative.

Problem	The scanned image is abnormal for certain documents.
Cause	A detection function such as border removal is enabled when scanning a document that includes text or photos extending to the edge of the page (the scanner cannot accurately process the edges of documents).
Solution	When a page has text or photos extending to its edges, turn the detection functions off or scan that page individually.

Problem	The scanned image is abnormal in some applications.
Cause	A function not supported by the application was used.
Solution	Some applications do not support functions such as auto-detection of page size, so scanning with such applications will produce abnormal scanned images. If abnormal image appearance seems to be application-dependent, try scanning with auto-detection disabled.

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1. Specifications

Unit Specifications

Type

Desktop sheet-fed scanner

Scannable Document Requirements

Width: 2" to 12.01" (50.8 mm to 305 mm)

Length: 2.76" to 17.01" (70 mm to 432 mm)

Weight: Continuous Feeding: 14 lb to 56 lb bond
(52 g/m² to 209 g/m²) (0.06 mm to 0.25 mm)
Manual Feeding: 11 lb to 64 lb bond (42 g/m²
to 255 g/m²) (0.05 mm to 0.30 mm)

Document Feeding Methods

Continuous, Manual, and Continuous Manual

Document Feeder Capacity

DR-6050C:

Up to 300 sheets of good quality paper or up to
1.10" (28 mm) high (maximum)

DR-7550C/9050C:

Up to 500 sheets of good quality paper or up to
1.89" (48 mm) high (maximum)

Scanning Sensor

Contact image sensor

Light Source

LED

Scanning Sides

Simplex/Duplex/Skip blank page

Scanning Modes

Black and White, Error Diffusion, Advanced Text
Enhancement, Advanced Text Enhancement II, 256-
Level Grayscale, and 24-Bit Color

Scanning Resolution

100, 150, 200, 240, 300, 400 and 600 dpi

Scanning Speed (LTR/A4 portrait)

Black and White

	DR-6050C	DR-7550C	DR-9050C
Simplex 200 dpi	60 pages/min.	75 pages/min.	90 pages/min.
Simplex 300 dpi	60 pages/min.	75 pages/min.	90 pages/min.
Duplex 200 dpi	120 images/min.	150 images/min.	180 images/min.
Duplex 300 dpi	120 images/min.	150 images/min.	180 images/min.

Grayscale

	DR-6050C	DR-7550C	DR-9050C
Simplex 200 dpi	60 pages/min.	75 pages/min.	90 pages/min.
Simplex 300 dpi	60 pages/min.	75 pages/min.	90 pages/min.
Duplex 200 dpi	120 images/min.	150 images/min.	180 images/min.
Duplex 300 dpi	120 images/min.	150 images/min.	180 images/min.

Color

	DR-6050C	DR-7550C	DR-9050C
Simplex 200 dpi	60 pages/min.	75 pages/min.	90 pages/min.
Simplex 300 dpi	60 pages/min.	75 pages/min.	90 pages/min.
Duplex 200 dpi	120 images/min.	150 images/min.	180 images/min.
Duplex 300 dpi	120 images/min.	150 images/min.	170 images/min.

Other

Double-Feed Detection, Deskew, User Mode, Long
Document Mode, and Folio Scan

External Dimensions

18.90" (W) × 20.91" (D) × 12.24" (H)

480 mm (W) × 531 mm (D) × 311 mm (H)

Maximum External Dimensions (with Document Feeder

Tray Extension / Extension Wire, and Document Eject

Tray Extension / Eject Paper Stoppers open)

18.90" (W) × 28.27" (D) × 15.35" (H)

480 mm (W) × 718 mm (D) × 390 mm (H)

Weight

Approx. 50 lbs (22.5 kg)

Power Supply

120 V model

AC 120 V (60 Hz), 1.4 A

220-240 V model

AC 220-240 V (50/60 Hz), 0.8 A

Power Consumption

120 V model

Scanning: 83 W

Stand-by Mode (Sleep Mode): 3.2 W

220-240 V model

Scanning: 84 W

Stand-by Mode (Sleep Mode): 3.9 W

Noise

Not more than 72 dB

Operating Environment

Temperature: 10 to 32.5°C (50 to 90.5°F)

Humidity: 20 to 80% RH

* Specifications are subject to change without notice.

Consumables

Roller Replacement Kit (Product Code: 4009B001)

Replacement kit for transport rollers (pick-up roller, feed rollers, and retard roller). (See “Replacing the Transport Rollers” on p. 39.)

! IMPORTANT

- Rollers are consumable parts. When the rollers start to wear out, problems, such as paper jams and misfeeds, are more likely to occur. If this happens, replace the rollers, regardless of the page count.
- For information about the roller replacement kit, contact your local authorized Canon dealer or service representative.

Ink Cartridge: Blue (Product Code: 3693A002)

This blue ink cartridge is used by the imprinter.

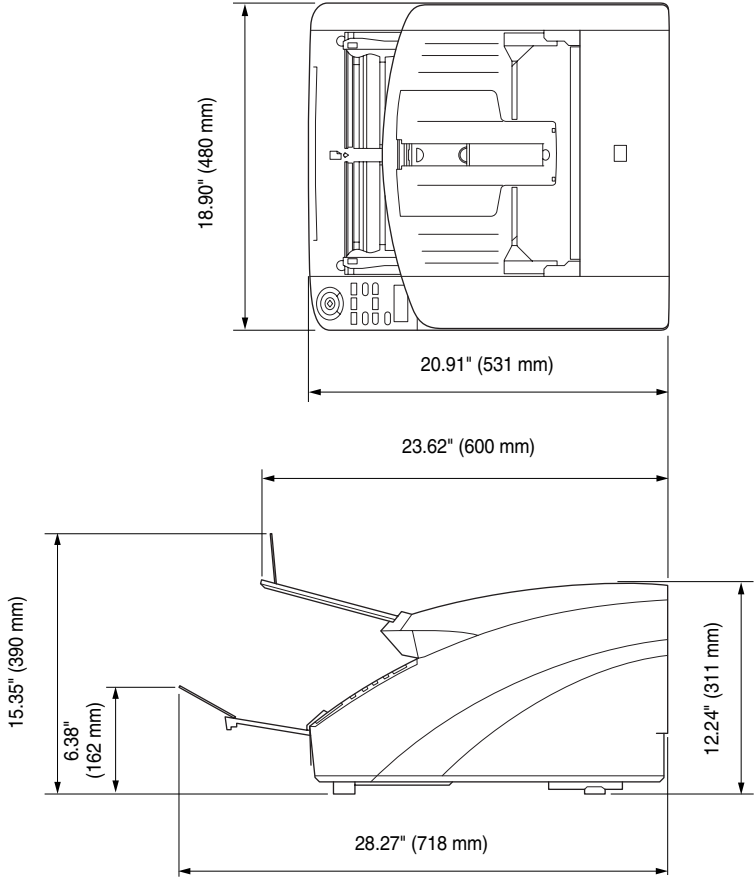
Ink Cartridge: Red (Product Code: 3693A003)

This red ink cartridge is used by the imprinter.

Ink Cartridge: Green (Product Code: 3693A004)

This green ink cartridge is used by the imprinter.

External Dimensions



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