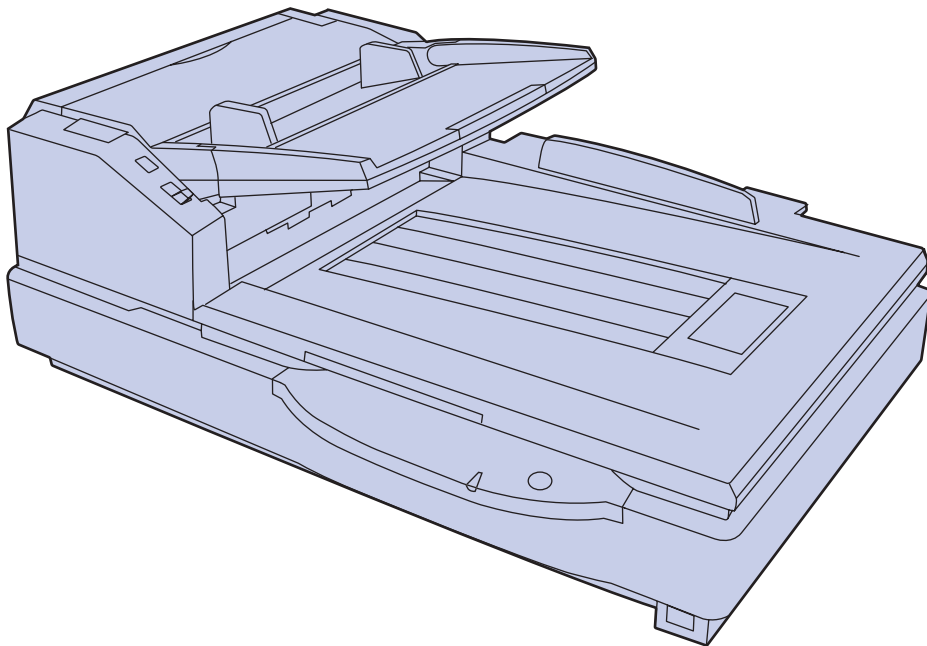


Panasonic®

High Speed Color Scanner

Operating Instructions

Model No. **KV-S7065C**



These instructions contain information on operating the scanner. Before reading these instructions, please read the installation manual enclosed with this unit.

Please carefully read these instructions, the enclosed installation manual and maintenance manual. Keep all documentation in a safe place for future reference.
Keep the CD-ROM in the protective case. Do not expose the CD-ROM to direct sunlight or extreme heat and do not scratch or smudge the surface of the CD-ROM.

Thank you for purchasing a Panasonic “High Speed Color Scanner.”

- Panasonic supports your imaging needs with a reliable and easy to use document scanner.
- Panasonic has developed Panasonic Image Enhancement Technology to improve the quality of your scanned images even beyond the quality of your original document.

■ System requirements

When using the scanner, the required host computer conditions are as follows.

	SCSI Connection	USB Connection
CPU	Minimum Recommended	Pentium III, 1 GHz Pentium 4, 2 GHz or higher
Memory	Minimum Recommended	256 MB 512 MB or higher
OS	Windows® 98 / Windows NT® 4.0 / Windows® 2000 / Windows® Me / Windows® XP	Windows® 98 / Windows® 2000 / Windows® Me / Windows® XP
Display	1024×768 dots or more, 65536 colors or more	
Interface	SCSI III Recommended SCSI board Adaptec SCSI 2930U / 2940U / 29160N /19160	USB 2.0

- ※ 1 GB or more free space is required in the HDD.
- ※ Color images larger than A3 size cannot be scanned in 600 dpi on Windows 98 or Windows Me. A large size color image may not be scanned in high resolution depending on a computer system or application.
- ※ The scanning speed differs depending on the host computer operating environment or application.
- ※ If you connect the scanner to a USB hub, it is not guaranteed to work.
- ※ When using the scanner with other SCSI devices connected by daisy chain connection, it is not guaranteed to work.

Important

- Do not duplicate currency.
- Do not duplicate copyrighted material or the work of others except for the purpose of private use.
- Do not duplicate any kind of certificates, licenses, passports, official or private documents, and the like.



As an ENERGY STAR® Partner, Panasonic has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.
(ENERGY STAR and the ENERGY STAR certification mark are registered US marks.)

- Microsoft®, Windows® and Windows NT® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
Windows® 98 is Microsoft® Windows® 98 operating system.
Windows® Me is Microsoft® Windows® Me operating system.
Windows NT® is Microsoft® Windows NT® operating system.
Windows® 2000 is Microsoft® Windows® 2000 operating system.
Windows® XP is Microsoft® Windows® XP operating system.
- ISIS® is a registered trademark of Pixel Translations, a division of Captiva Software Corporation.
- Pentium® is a trademark or registered trademark of Intel Corporation or its subsidiaries in the United States and other countries.
- Adaptec is a registered trademark of Adaptec, Inc.
- Each company's name or company product name is each company's trademark or registered trademark.

The information given in these Operating Instructions is subject to change without notice.

Table of Contents

	Page
Before You Start	Notice 4
	Precautions 7
	Component Identification 10
	• Power turn-on sequence 12
	• About LED 12
	• About the SCSI setting (Not required for USB connection) 13
Operation	Loading Documents on the ADF 14
	• When scanning multiple sheets 15
	Feeding a Document Manually 18
	Loading Documents on the Flatbed 19
	• When scanning with the flatbed 19
	• Scanning thick documents 20
	• When scanning with the flatbed repeatedly 20
	Others 21
	• How to use the control sheet 21
	Changing the Reference Plate Setting 22
• ADF reference plate setting 22	
• Flatbed sheet setting 23	
Care and Maintenance	Clearing Paper Jams 24
	• Removing paper jams from the document feeder 24
	• Removing paper jams from the exit path 25
	Cleaning the Unit 26
	• Outside of the scanner 26
	• Inside the scanner 26
	• Cleaning the paper feed roller, separation roller, and retard roller 27
	• Cleaning the drive rollers and free rollers 29
	• Cleaning the drive rollers, free rollers, and exit roller 30
	• Cleaning the reference plates and ADF glasses 31
• Cleaning the paper and waiting sensors, double feed detector 32	
• Cleaning the starting, skew and ending sensors 33	
• Cleaning the flatbed glass and document cover detector 34	
Replacing Consumable Roller Modules 35	
• Replacing paper feed roller modules 35	
• Replacing Retard Roller 37	
Shading Adjustment 39	
Appendix	Repacking Instructions 40
	Specifications 41
	Troubleshooting 42
	Index 44

Notice

Federal Communications Commission Requirements

(For United States only)

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

FCC Warning: To assure continued FCC compliance, the user must use only shielded interface cable and the provided power supply cord. Also, any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

English

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

THE SOCKET-OUTLET MUST BE NEAR THIS EQUIPMENT AND MUST BE EASILY ACCESSIBLE.

The product should be used only with a power cord that is supplied by the manufacturer.

Power Source

WARNING

- (220-240 V equipment)
A certified power supply cord has to be used with this equipment. The relevant national installation and/or equipment regulations shall be considered. A certified power supply cord not lighter than ordinary polyvinyl chloride flexible cord according to IEC 60227 (designation H05VV-F 3G 1.0 mm²).

在臺灣的使用者

警告

為防止發生火災和電擊，切勿將本機置於會遭到雨淋或其他任何類型的潮濕環境中。

電源插座務必要靠近本設備而且必須便於插拔。



警告使用者

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

(For United Kingdom only)

For your safety please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5 amp. fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 5 amps. and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark  or the BSI mark  on the body of the fuse. If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from your local Panasonic Dealer.

If the fitted moulded plug is unsuitable for the socket outlet in your home then the fuse should be removed and the plug cut off and disposed of safely.

There is danger of severe electrical shock if the cut off plug is inserted into any 13 amp. socket.


If a new plug is to be fitted please observe the wiring code as shown below. If in any doubt please consult a qualified electrician.

WARNING: This appliance must be earthed.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code.

Green-and-Yellow	: Earth
Blue	: Neutral
Brown	: Live

As the colours of the wire in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

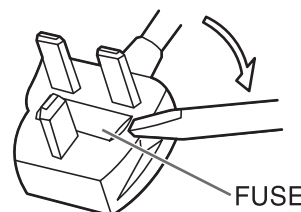
The wire which is coloured Green-and-Yellow must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol  or coloured Green-and-Yellow.

The wire which is coloured Blue must be connected to the terminal in the plug which is marked with the letter N or coloured Black.

The wire which is coloured Brown must be connected to the terminal in the plug which is marked with the letter L or coloured Red.

How to replace the fuse :

Open the fuse compartment with a screwdriver and replace the fuse.



Roller cleaning paper precautions

Before using the roller cleaning paper, please read these instructions completely. Keep these instructions for future reference.

English

WARNING

- Do not drink or inhale the roller cleaning paper fluid including isopropyl alcohol.
- The roller cleaning paper may be harmful to sensitive skin. Please use protective gloves.
- Do not use the roller cleaning paper near a heater or open flame.
- Do not store the roller cleaning paper in direct sunlight or in a place with temperature over 40 °C (104 °F).
- Only use the roller cleaning paper to clean the rollers and scanning area.
- If you need more information about the roller cleaning paper, please refer to the Material Safety Data Sheet (MSDS).
- Please ask your Panasonic sales company about obtaining the Material Safety Data Sheet.

KEEP AWAY FROM FIRE.


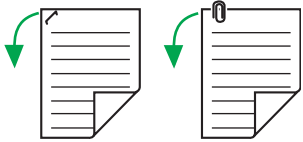


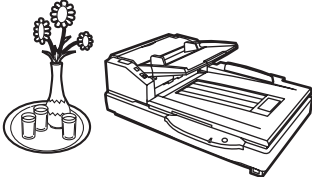
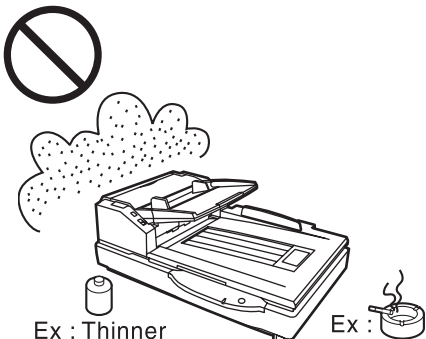


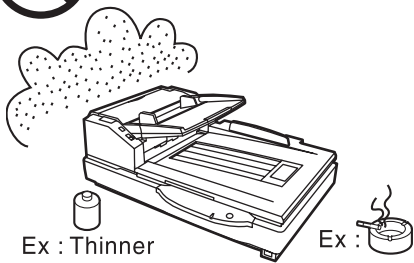
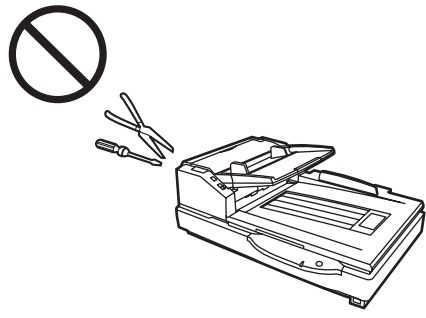

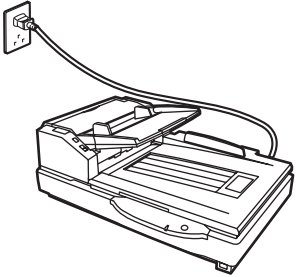
在臺灣的使用者

警告

- 切勿將含有異丙醇的輓清潔紙液誤飲或吸入。
 - 輓清潔紙可能對敏感的皮膚有害，因此請戴上防護手套使用。
 - 切勿靠近加熱器具或明火使用輓清潔紙。
 - 切勿將輓清潔紙在陽光直射或溫度超過40°C之處保管。
 - 只能使用輓清潔紙來清潔輓和掃描區域。
 - 有關輓清潔紙的具體細節請參閱材料安全數據表(MSDS)。
 - 關於獲取材料安全數據表的方法請向Panasonic銷售公司洽詢。
- 遠離火源。

Precautions

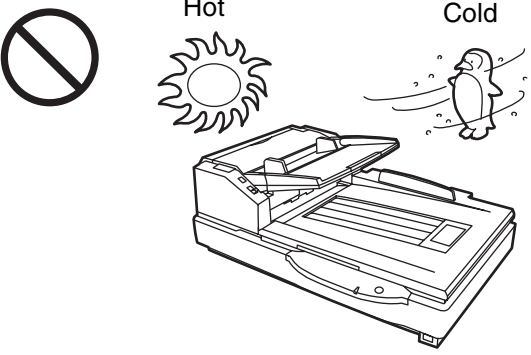
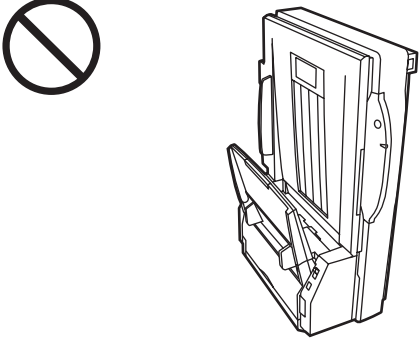
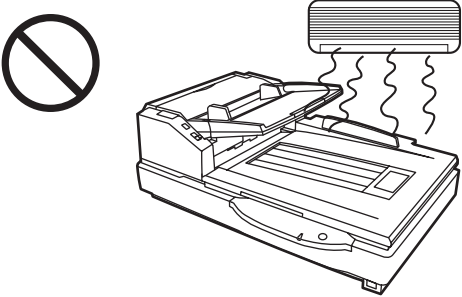
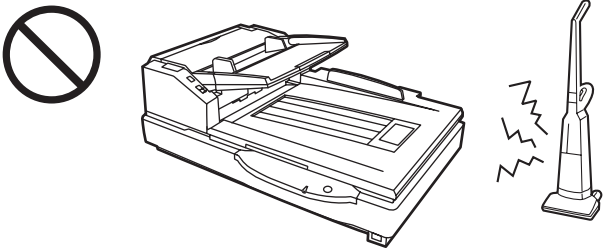
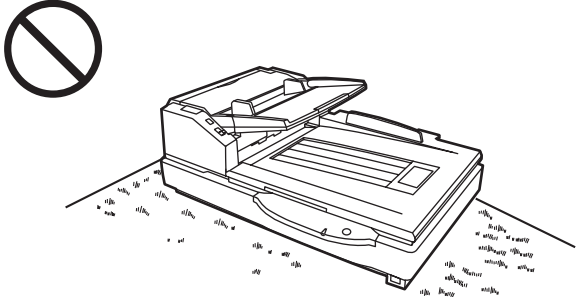
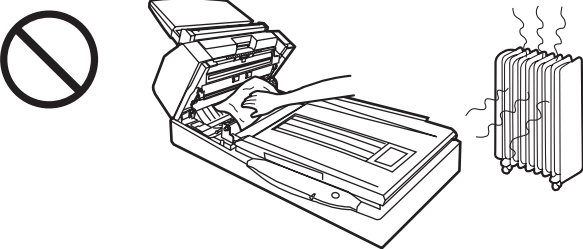
The following precautions are recommended to extend the life of the unit:

 <p>Prior to scanning, remove all staples and paper clips from pages.</p> 	 <p>Do not place floppy disks or any items containing magnetic data strips on the flatbed.</p> <p>—Magnets are located in the flatbed cover (flatbed sheet) and may damage data stored on floppy disks and magnetic strips.</p>	
<p>Do not place any liquids near the unit.</p> <p>—Accidental spillage of liquid into the unit may cause severe damage. If this occurs, turn the unit off, unplug the power cord and call for service.</p> 	<p>Do not place books, paper, or other items on the unit.</p> 	<p>Do not place the unit in an area where there is a lot of smoke, dust, chemical fumes or vibration.</p>  <p>Ex : Thinner Ex : </p>
<p>Do not leave the power cord plugged into the AC outlet if the unit will not be used for an extended period.</p> 	<p>Do not place the unit on an uneven or unstable surface.</p> 	<p>Do not disassemble the unit. This will void your warranty.</p> 
<p>It is recommended that at least two people carry the scanner by holding four hollows on the front and rear sides.</p>  <p>Hollows</p>	<p>Do not look directly at the light. (You may damage your eyes.)</p> 	

- Special care should be taken to protect the unit if it is used in a less than optimum environment, such as a dusty or sandy area.

Precautions

Operating Environment

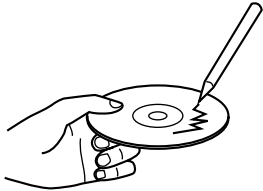
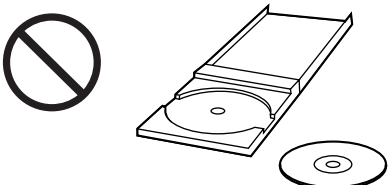
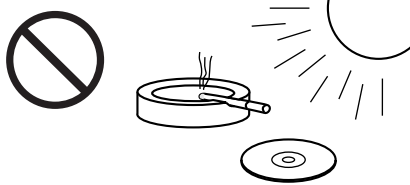
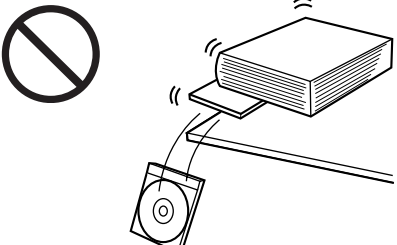
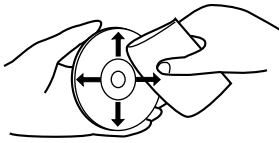
<p>Do not place the unit in direct sunlight or in a cold draft.</p>  <p>Hot Cold</p>	<p>Do not operate or place the unit in a vertical position.</p> 
<p>Do not place the unit near a heating appliance or an air conditioning vent. Do not place the unit in a room with extremely high or low humidity.</p> 	<p>Do not place the unit near other appliances which generate large electrical noise.</p> 
<p>Do not place the unit on a carpet. (Static electricity can cause the unit to malfunction.)</p> 	<p>Do not drink or inhale the included roller cleaning paper fluid. The roller cleaning paper may be harmful to sensitive skin. Please use protective gloves. Do not use the roller cleaning paper near a heater or open flame. This may cause a fire.</p> 

●Power Source

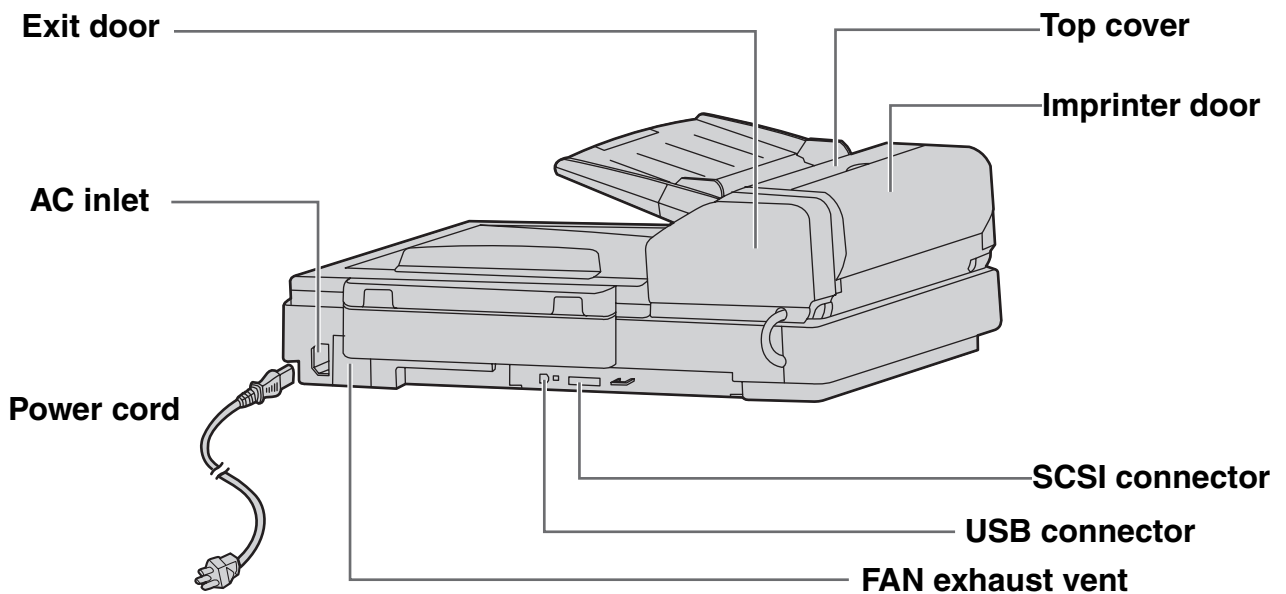
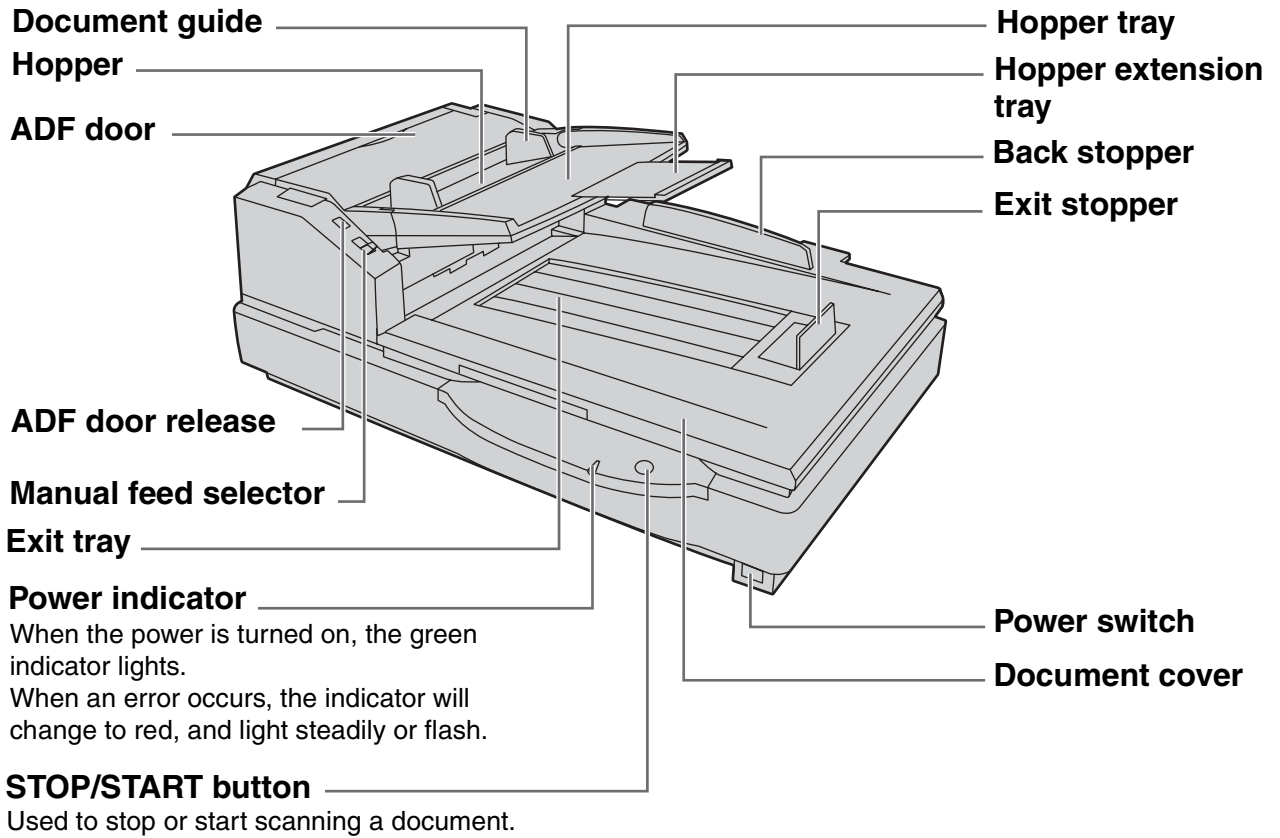
- Use a voltage level that does not vary more than $\pm 10\%$ from the voltage level marked on the nameplate (located on the back side of the scanner).
- Do not use an extension cord.
- This scanner should be connected to a grounded outlet.
- Do not use a line conditioner, transient suppressor or surge protector.

■ CD-ROM

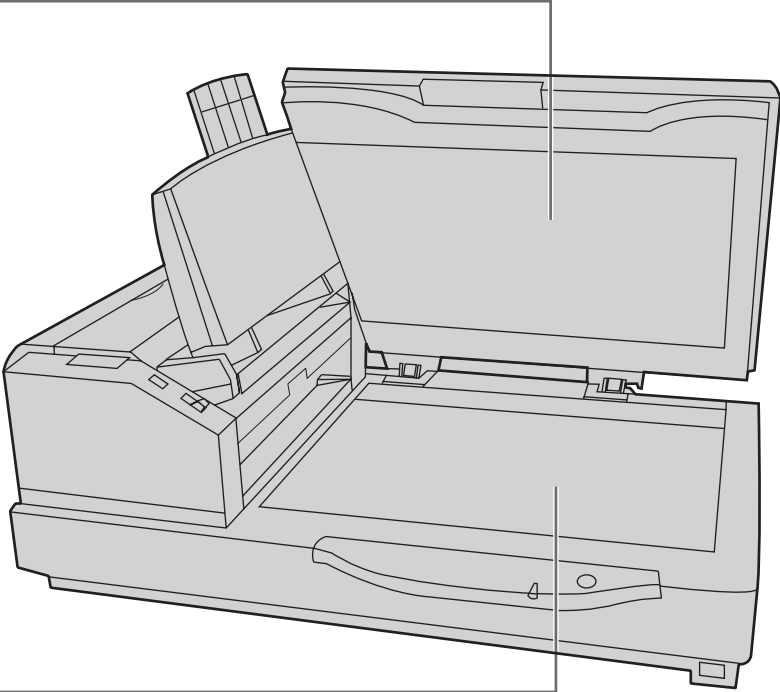
To prevent the CD-ROMs from accidental damages:

<p>Do not touch or write on the surface of the disc.</p>  <p>The illustration shows a hand holding a CD-ROM while a pen tip touches its surface. A prohibition sign is to the left.</p>	<p>Do not leave the disc out of its protective case.</p>  <p>The illustration shows an open CD-ROM case with a disc lying on the surface next to it. A prohibition sign is to the left.</p>	<p>Do not leave the disc in direct sunlight or near heat sources.</p>  <p>The illustration shows a CD-ROM disc on a surface next to a lit cigarette in an ashtray. A sun with rays is in the background. A prohibition sign is to the left.</p>
<p>Do not place heavy objects on the disc case or drop the case.</p>  <p>The illustration shows a stack of several books placed on top of a CD-ROM case. A prohibition sign is to the left.</p>	<p>To clean the disc, hold the disc by its edges and wipe it from the center to the edges with a dry, soft cloth.</p>  <p>The illustration shows a hand holding a CD-ROM disc by its edges. A cloth is being used to wipe the surface from the center outwards. Arrows indicate the direction of the wipe.</p>	

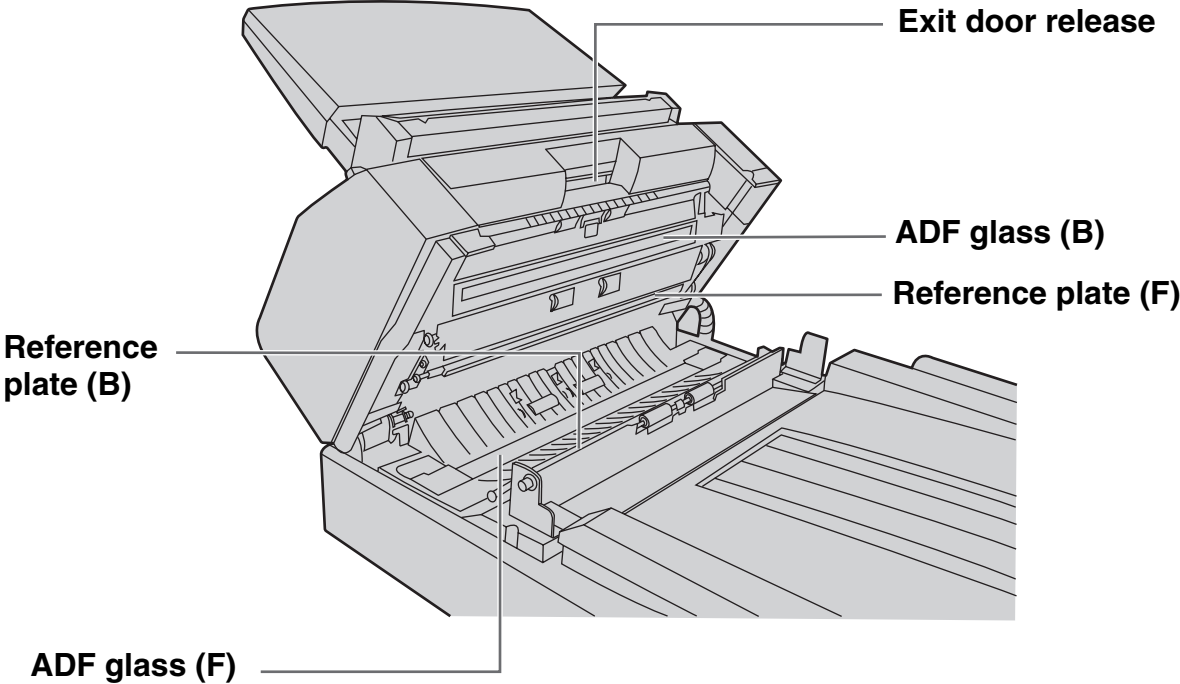
Component Identification



Flatbed sheet



Flatbed glass

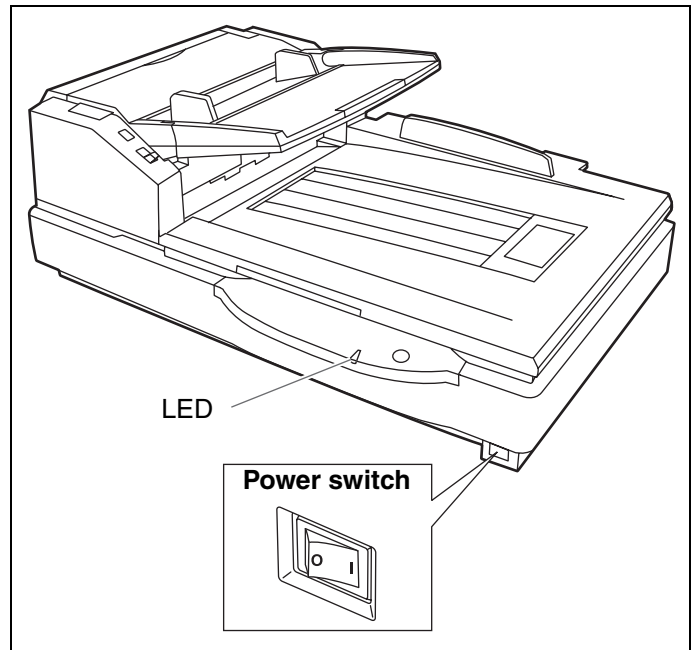


Component Identification

■ Power turn-on sequence

- 1** Turn on the power of the scanner.
 - The LED will now light.

- 2** Turn on the power of the host computer after scanner's LED stays green.
 - In case of the USB connection, the host computer recognizes the scanner automatically when the scanner is powered on even after the host computer is powered on.



■ About LED

LED indicates the status of the scanner as follows:

LED light	Status
Green	Ready to scan or scanning
Green (flashing)	Sleep mode
Orange	Ready to scan or scanning with warning *1
Orange (flashing)	Initializing Sleeping with warning *1
Red	An error occurred *2

*1: The rollers need to be cleaned or replaced.

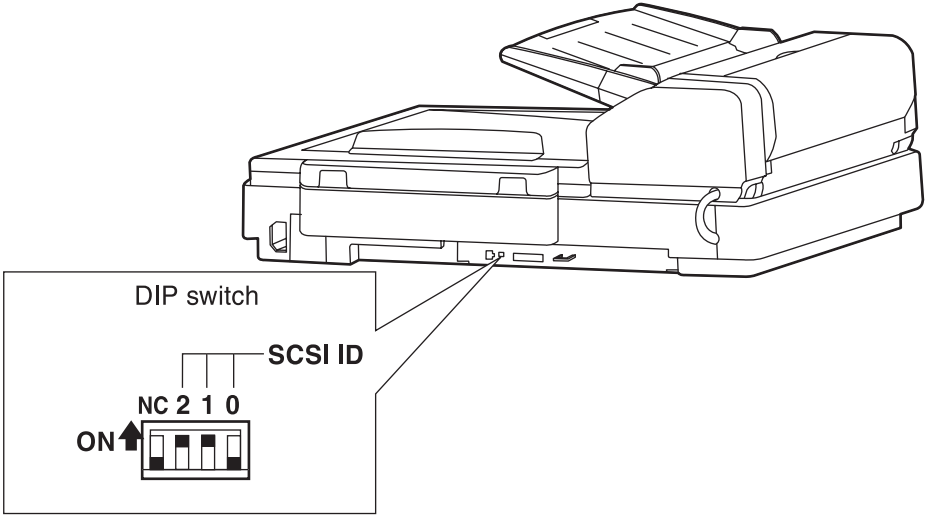
Refer to Maintenance Manual or Operating Instructions (CD-ROM) for the way of cleaning or replacing the rollers.

*1, *2: Check the status of the scanner using the User Utility.

The User Utility is included in the CD-ROM.

■ About the SCSI setting (Not required for USB connection)

When connecting the scanner to a SCSI chain using a SCSI cable, perform the SCSI ID setting correctly. The scanner is provided with a DIP switch for the SCSI ID No. setting.



SCSI ID Setting

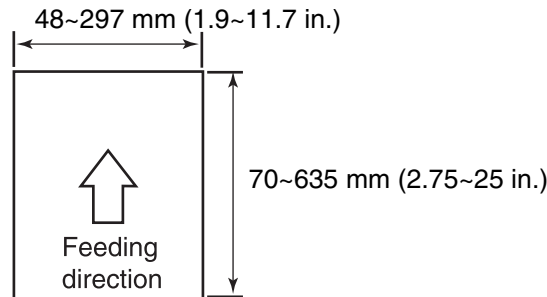
ID No.	Switch			Remarks
	#2	#1	#0	
0	OFF	OFF	OFF	
1	OFF	OFF	ON	
2	OFF	ON	OFF	
3	OFF	ON	ON	
4	ON	OFF	OFF	
5	ON	OFF	ON	
6	ON	ON	OFF	Default setting
7	ON	ON	ON	

Loading Documents on the ADF

ADF (Auto Document Feeder) enables multiple sheet scanning.

Acceptable documents

Document size:



Paper thickness: 40–127 g/m²

Maximum number of sheets loadable on the hopper tray

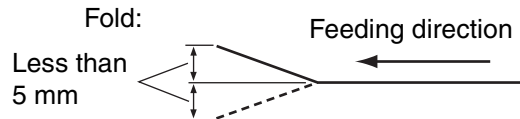
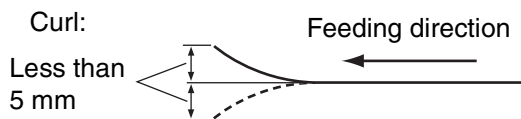
The height of the document should not exceed the limit mark on the document guide.

g/m ²	40	52	64	75	80	90	104	127
lb.	11	14	17	20	21	24	28	34
Maximum number of sheets	320	260	200	170	160	140	120	100

Recommendable paper: Plain paper

The following types of documents may not be scanned properly.

- Broken or notched documents
- Curled, wrinkled or folded documents



- Perforated or punched documents
- Not rectangular or irregularly shaped documents
- Tracing paper
- Thermal paper

When scanning is not performed properly, try the following methods:

- Set the feed speed to “Slow”.
- Scan the documents by manual feeding.
- Scan the documents with the flatbed.

The following types of documents may cause frequent jams and double feeding.

- Extremely smooth or shiny paper or paper that is highly textured
- Paper with carbon
- Carbonless paper

If a paper jam or double feeding occurs, clean the rollers.

When a jam occurs at the document feeder, reduce the number of sheets loaded on the hopper to about 20.

Types of documents to avoid

- OHP sheets, other plastic films, cloths, or metallic sheets.
- Paper with irregularities such as tabs, staples, paste, etc.
- Documents with wet ink
- Thick or irregular documents such as envelopes, documents that are glued together, etc.

Be sure to remove the document from the exit tray after it is scanned.

When scanning different size documents, scanned sheets may need to be reordered for optimum performance.

Thick, thin or important document should be scanned by the flatbed or fed manually one sheet at a time.

■ When scanning multiple sheets

Cautions:

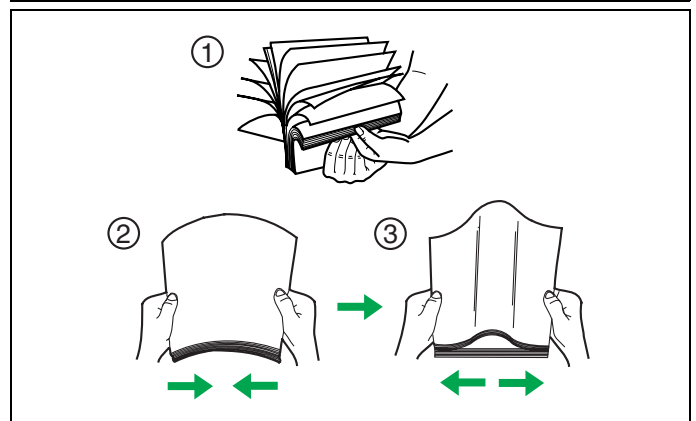
- Please remove any staples from the document before scanning.
- Glued or curled documents may cause a paper jam or damage the unit, so please scan using the flatbed.

1 Documents that have been stapled together or stacked together (as in a file folder) will need to be separated.

- ① Fan the stack of documents to separate all the edges.
- ② Hold both ends and bend the documents as shown in the illustration.
- ③ To flatten the documents, hold firmly and pull them apart as shown in the illustration.

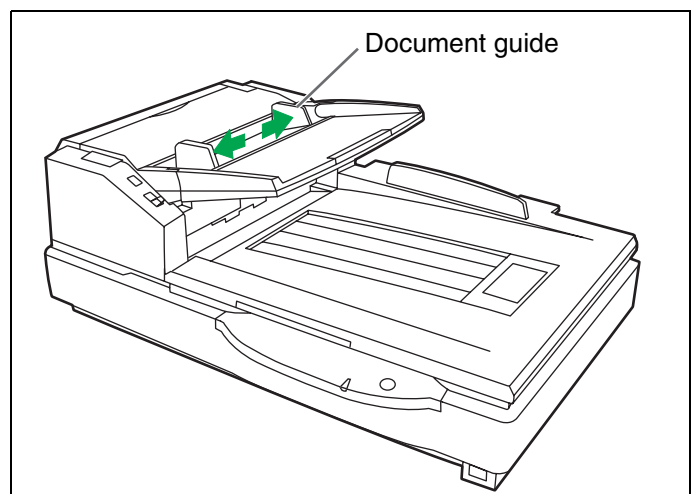
Repeat these steps as necessary.

Prior to scanning, remove, all staples and paper clips from pages.



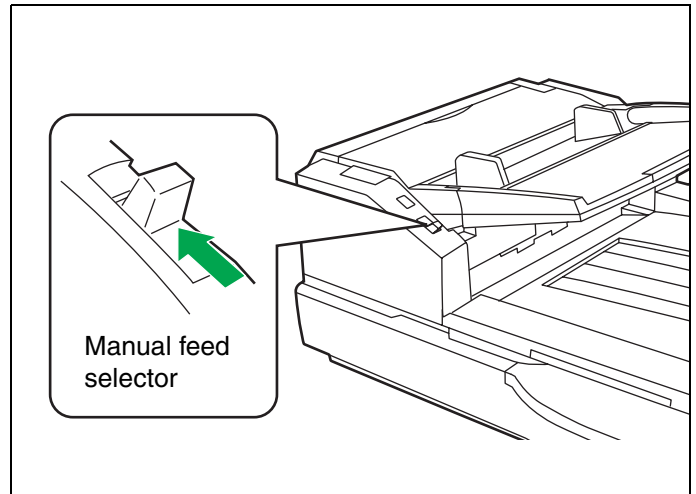
2 Carefully align the documents.

3 Adjust the document guides slightly larger than the actual size of the documents.

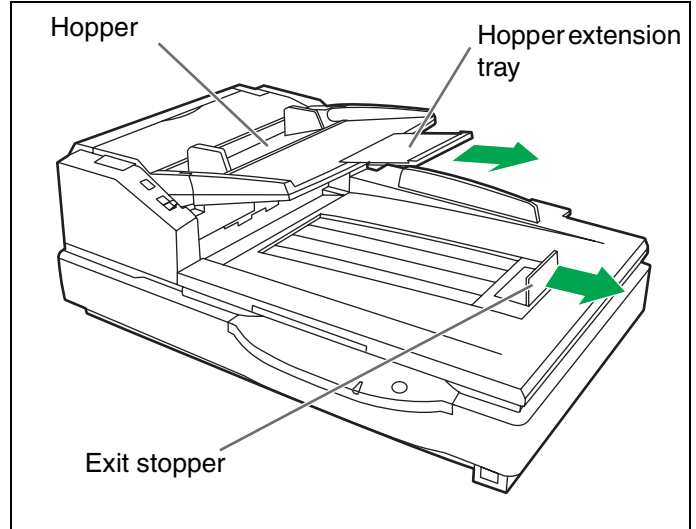


Loading Documents on the ADF

- 4 Set the manual feed selector to "AUTO".

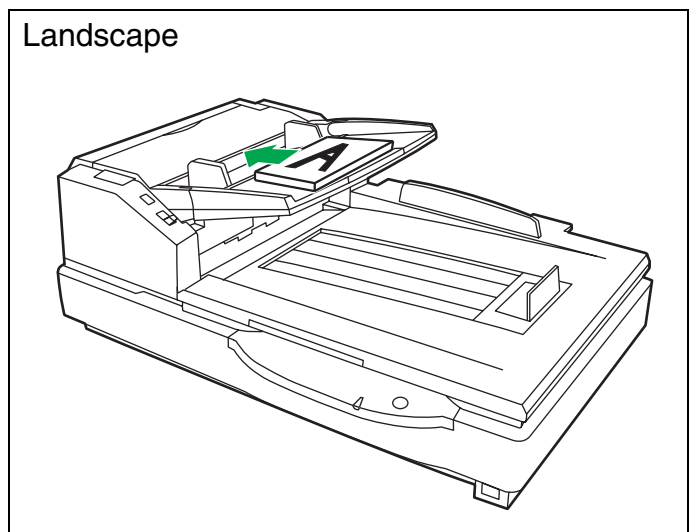
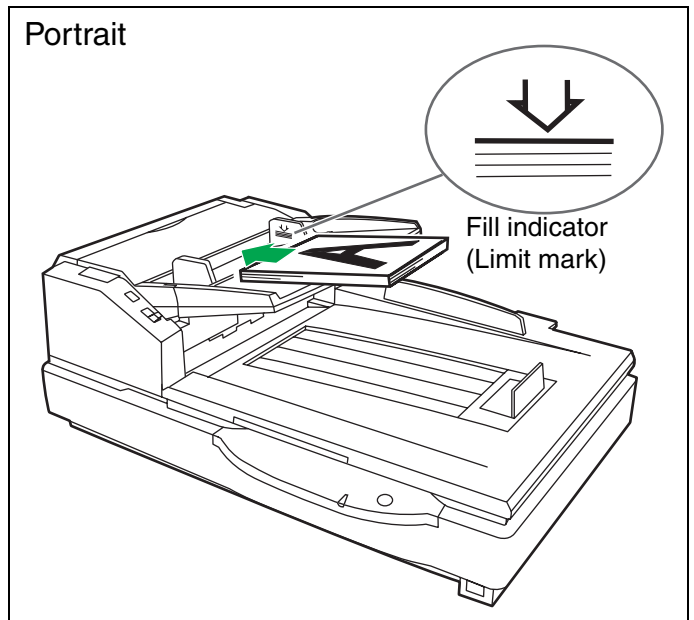


- 5 When using long paper, pull out the hopper extension tray from the hopper. Then raise and adjust the exit stopper to the position a little longer than the actual length of the document.



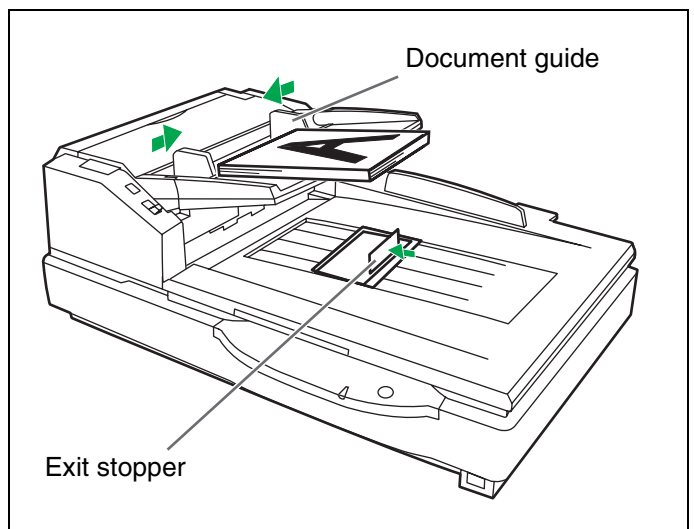
6 Place the documents on the hopper with the side to be scanned facing up. Then push them in the direction of the arrow until they stop.

- The amount of documents should not exceed the limit mark on the document guide. This may cause a paper jam or skew.



7 Adjust the document guide to the size of the document to be scanned. Adjust the exit stopper to the size of the document to be output.

- When scanning the document with the length between 420 mm (A3 size) or 432 mm (17 in.) and 635 mm (25 in.) close the exit stopper.



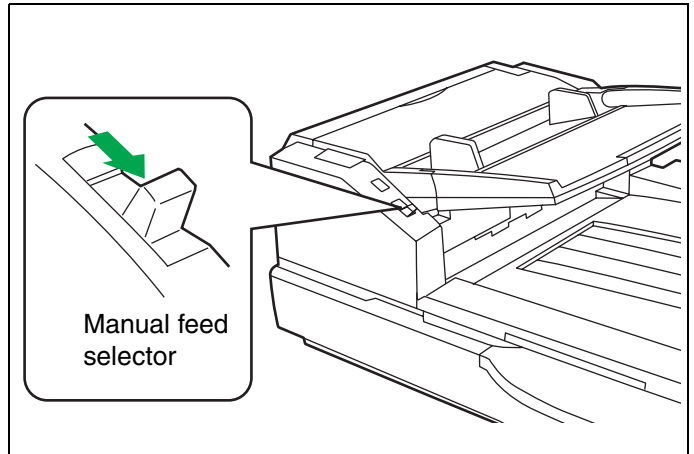
Feeding a Document Manually

When scanning a document one page at a time with the ADF, set the manual feed selector to “MANUAL” and the pages can be scanned one page at a time.

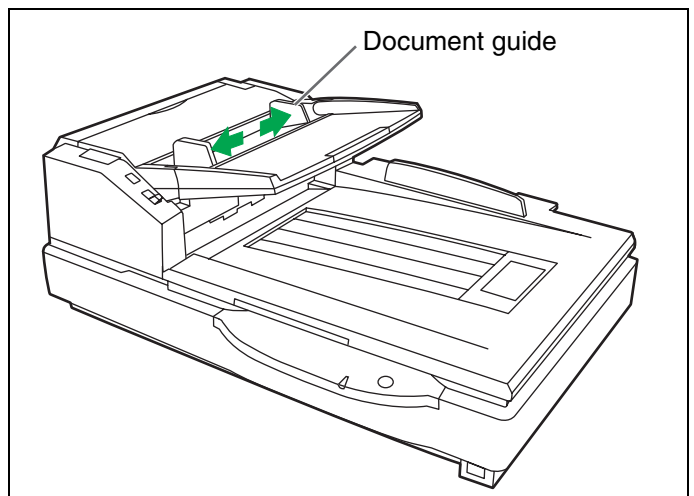
Cautions:

- Please remove any staples from the document before scanning.
- Glued or curled documents may cause a paper jam or damage the unit, so please scan using the flatbed.

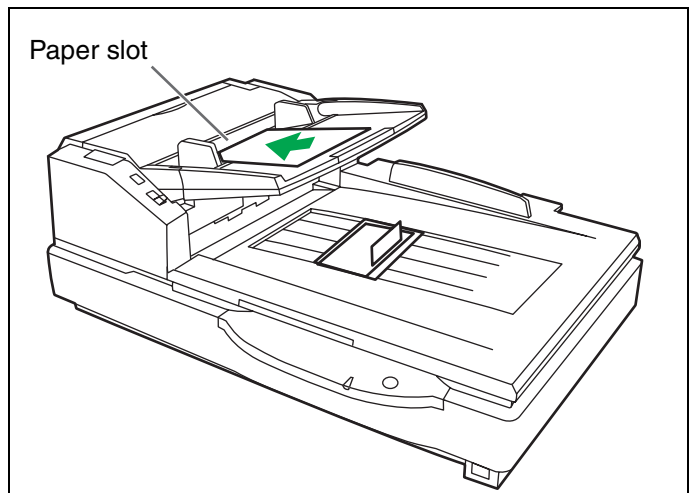
1 Set the manual feed selector to “MANUAL”.



2 Match the document guide with the size of the document.



3 Insert the document into the paper slot one page at a time.



4 Adjust the document guide with the size of the document when the document guide does not suit the size of the document. Adjust the exit stopper to the size of the document to be output.

Loading Documents on the Flatbed

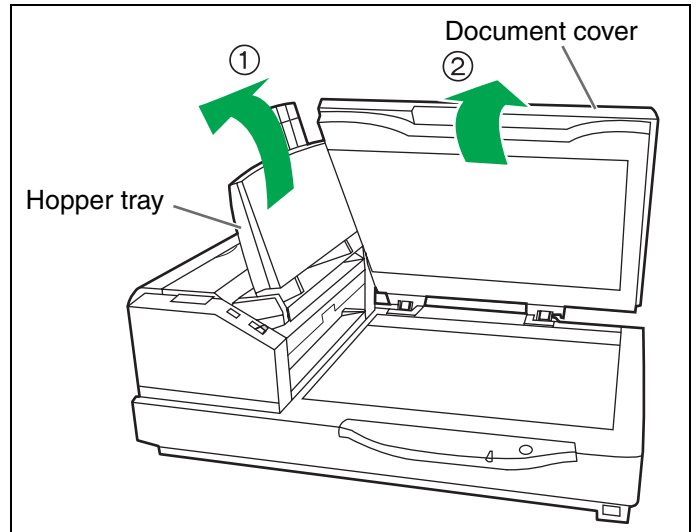
One sheet or an entire book document can be scanned on the document glass. Scanning documents in this way is known as “scanning with the flatbed”.

Caution

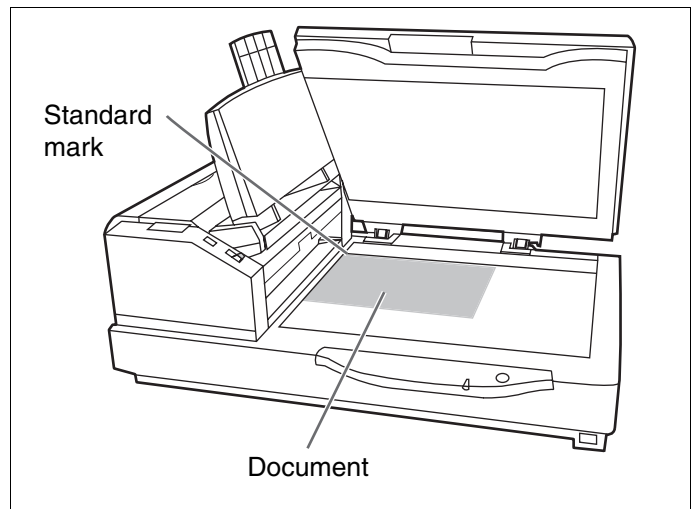
- Do not place floppy disks or any items containing magnetic data strips on the flatbed. Magnets are located in the flatbed cover (flatbed sheet) and may damage data stored on floppy disks and magnetic strips.

■ When scanning with the flatbed

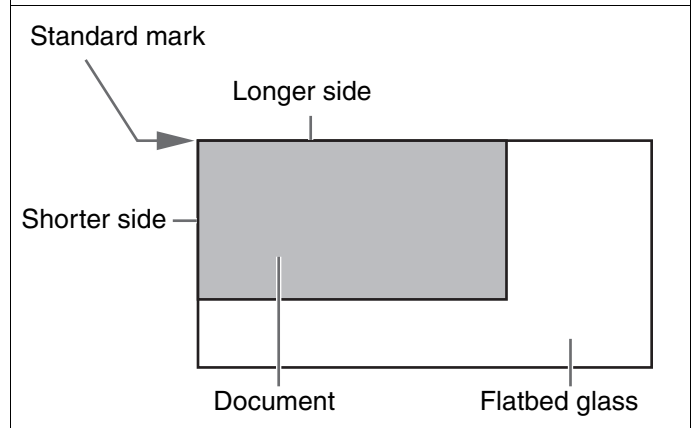
- 1** Raise the hopper tray.
- 2** Open the document cover.



- 3** Place the scanning side of the document face down on top of the flatbed glass towards the upper left corner.
 - If the document is bent or folded, straighten it.



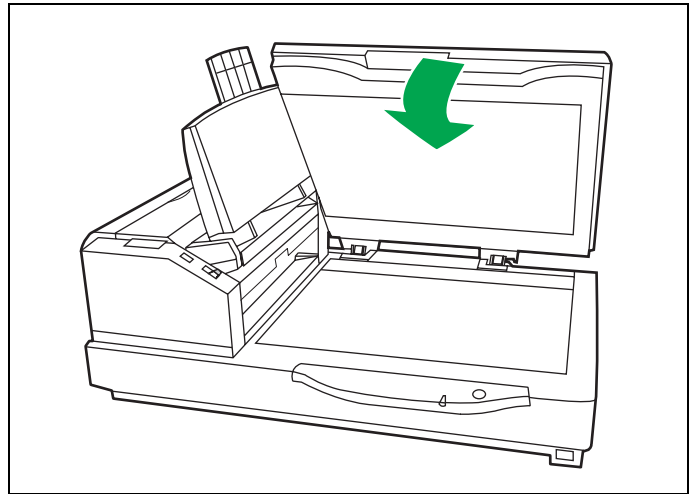
- 4** Match the shorter side of the document with the left edge of the flatbed glass.
- 5** Match the longer side of the document with the standard mark.
 - If the document is slanted, it will not be scanned properly.



Loading Documents on the Flatbed

6 Close the document cover gently.

- If the document cover is slammed, the document will move and may not be scanned properly.
- Do not open or press down on the document cover during scanning.
- Do not look directly at the light. (You may damage your eyes.)
- Be sure to close the document cover before use.
- After scanning, open the document cover and remove the document.



■ Scanning thick documents

When scanning thick documents such as a book, please note the following items:

- Please note that areas of the document which are not touching the flatbed glass will not be scanned properly.
- If the document moves during scanning, please note that it will not be scanned properly.

■ When scanning with the flatbed repeatedly

- Keep the hopper tray raised, open and close the document cover only.

Others

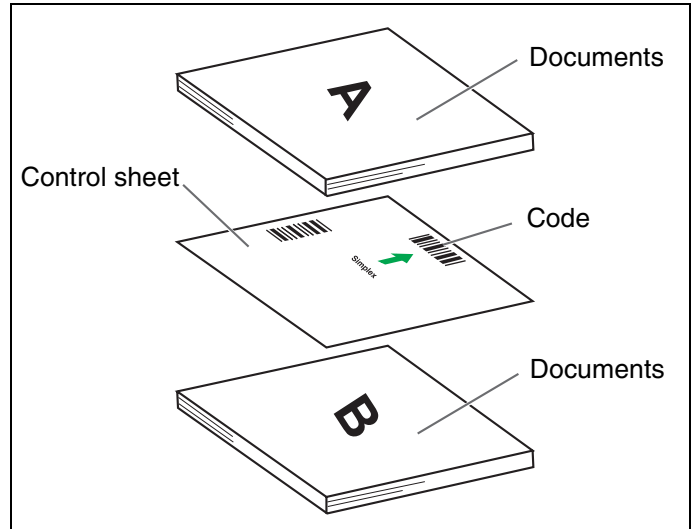
■ How to use the control sheet

If the control sheet is used, the documents behind the control sheet are scanned in accordance with the code on the control sheet regardless of scanning condition that is selected previously.

- Multiple control sheets can be used.
- When using a control sheet, the application software required depends on the control sheet.
- Print out control sheets from the provided CD-ROM.

Cautions:

- Use the same size control sheet as the scanning document.
- When printing the control sheet, if the pattern falls in the area from the top side of the document to 25 mm, adjust the printer.
Also, copy the control sheet so that the pattern lies in the center of the copy.
- Be careful not to get the control sheet dirty.
Do not fold or crease the control sheet.
Scanning will not be performed properly.

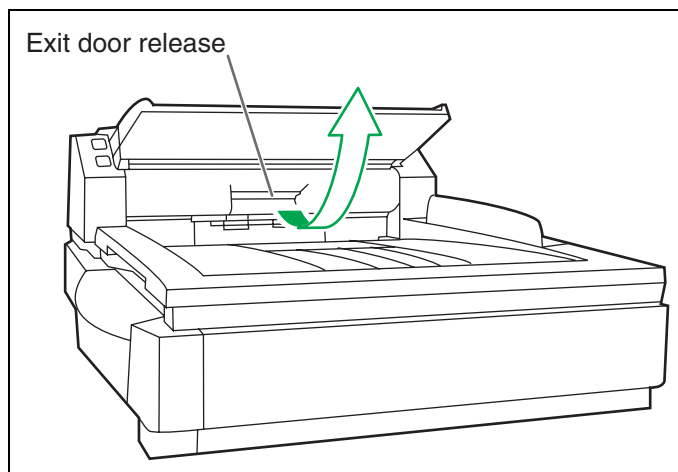


Changing the Reference Plate Setting

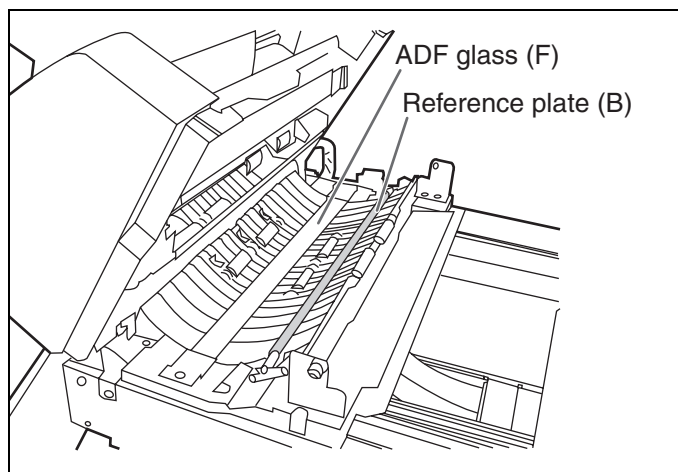
You can choose a background color to be scanned from white (black) to black (white). The scanner comes from factory set to black. The reference plate (B), reference plate (F) and flatbed sheet setting must be changed simultaneously. Anytime the background color is changed from its previous setting, the shading adjustment must be performed. Please refer to page 39 for more information regarding the shading adjustment.

■ ADF reference plate setting

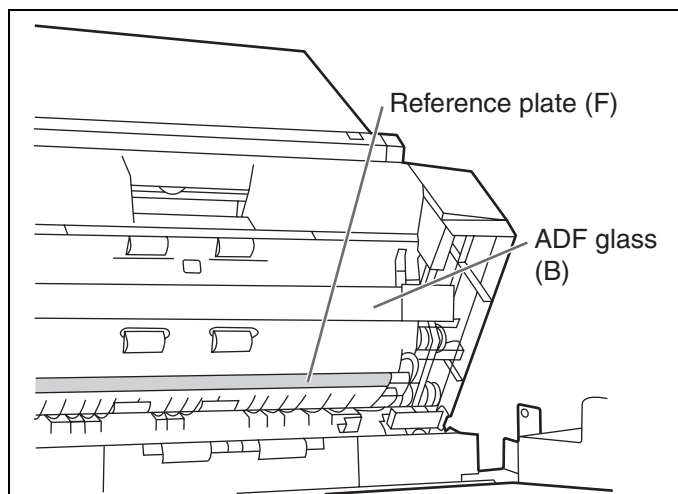
- 1** Turn off the scanner.
- 2** Pull the exit door release to open the exit door.



- 3** Using your finger, turn the reference plate (B) over.
 - Confirm that the reference plate has changed and is locked in its proper position.

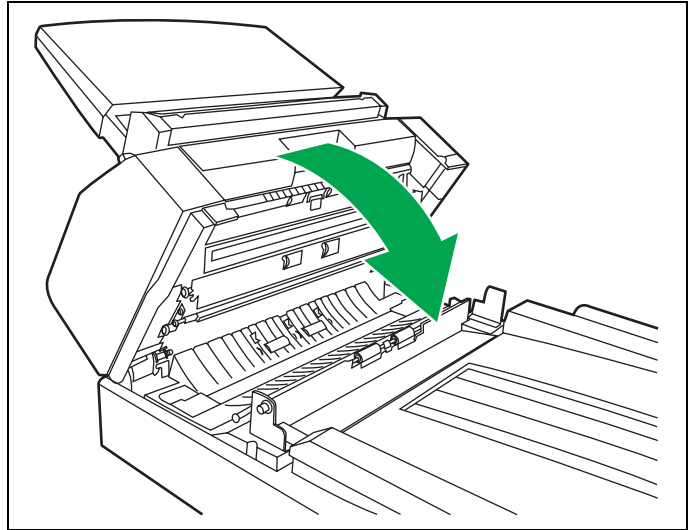


- 4** Using your finger, turn the reference plate (F) over.
 - Confirm that the reference plate has changed and is locked in its proper position.



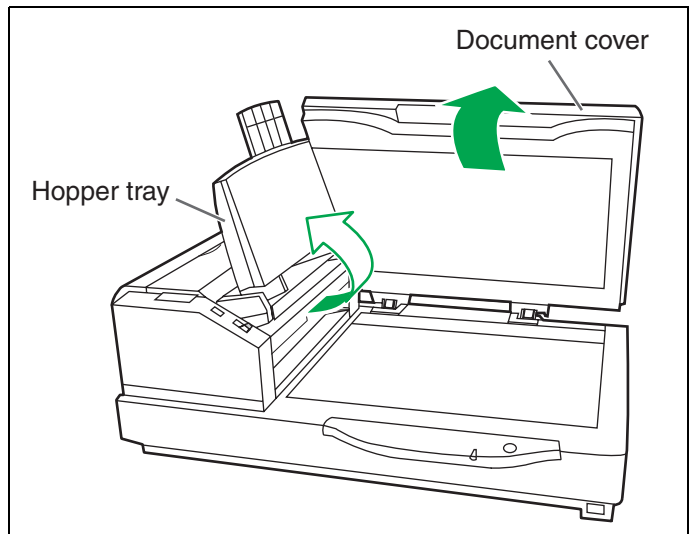
Changing the Reference Plate Setting

- 5 Close the exit door slowly until it clicks into place.

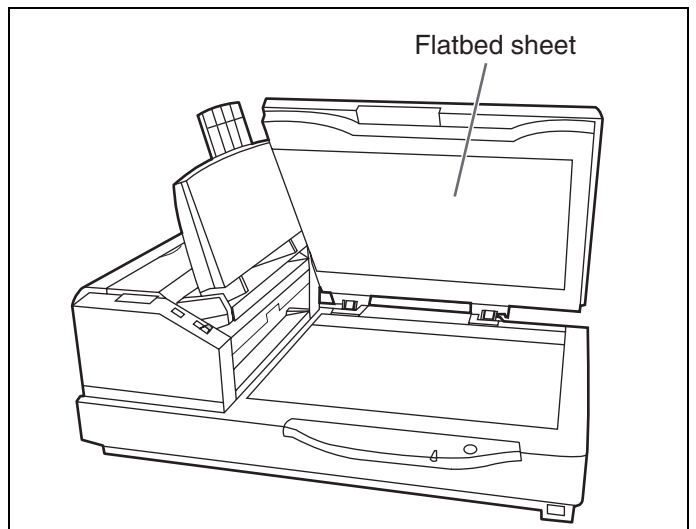


■ Flatbed sheet setting

- 1 Turn off the scanner.
- 2 Fold the hopper tray in the direction of the arrow.
- 3 Open the document cover.



- 4 Turn the flatbed sheet over.
 - The flatbed sheet is attached to the document cover with magnets.
 - Set the flatbed sheet to the left.

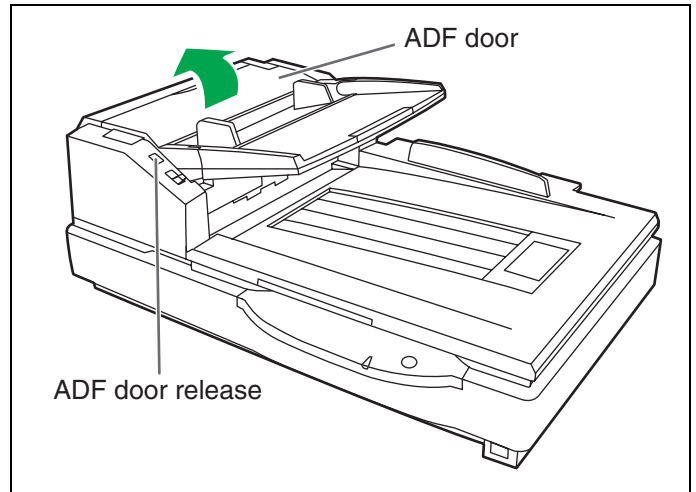


Clearing Paper Jams

Torn documents, thin documents or documents that are creased on the top edge may cause paper jams. If a paper jam occurs, remove the jammed sheet according to the following procedure.

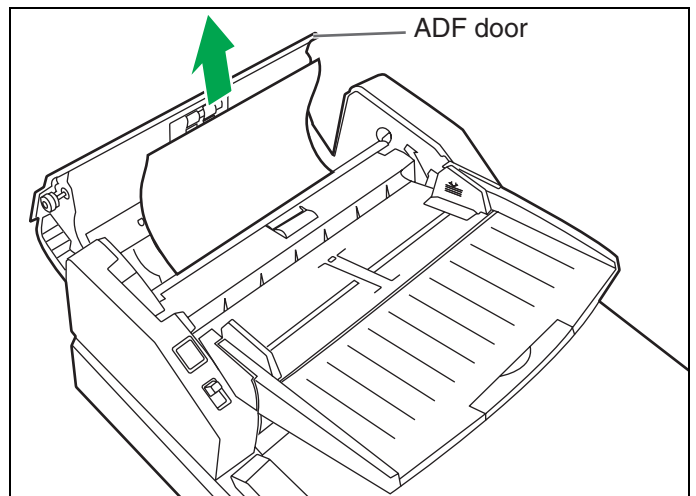
■ Removing paper jams from the document feeder

- 1** Push the ADF door release to open the ADF door.



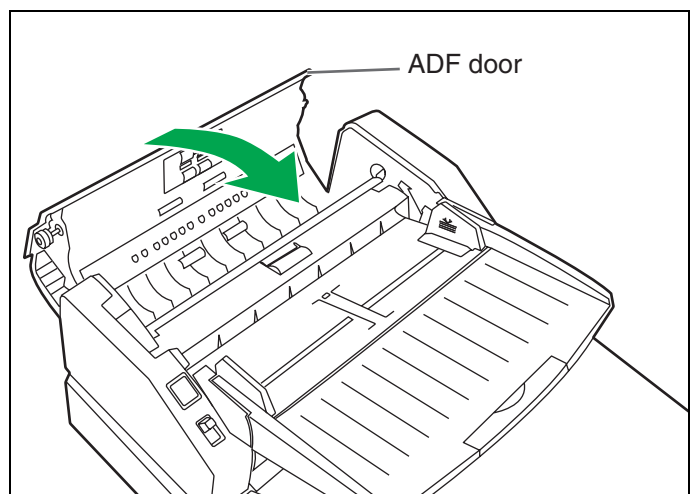
- 2** Pull the jammed document towards the document feeder.

- When the jammed paper cannot be removed, remove it from the exit path. Refer to page 25.
- When only the bottom end of jammed paper is visible, open the exit door while leaving the ADF door open to remove the jammed paper. Pulling the jammed paper with the ADF door closed may damage the document.



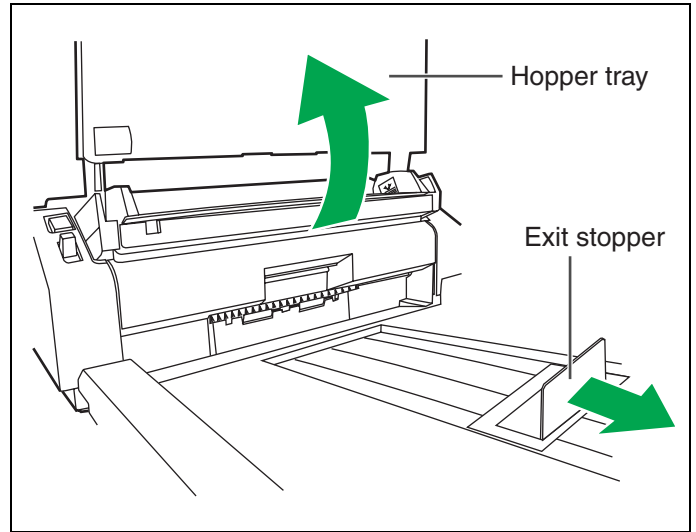
- 3** Close the ADF door.

- When you close the ADF door, close it securely until it is locked.



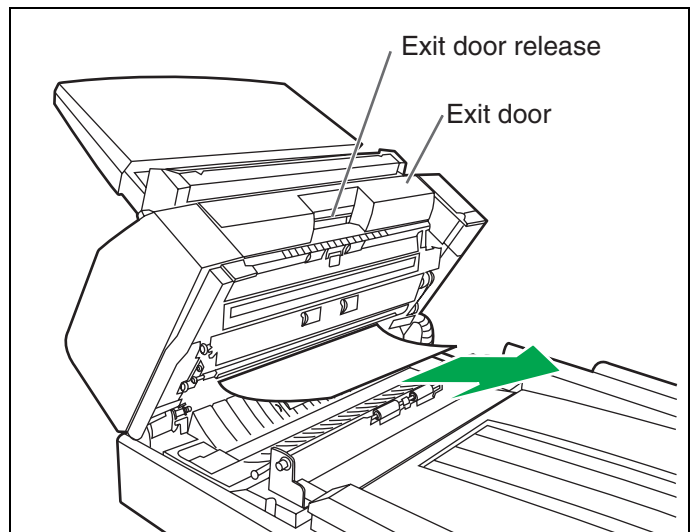
■ Removing paper jams from the exit path

- 1** Pull the exit stopper and raise the hopper tray.



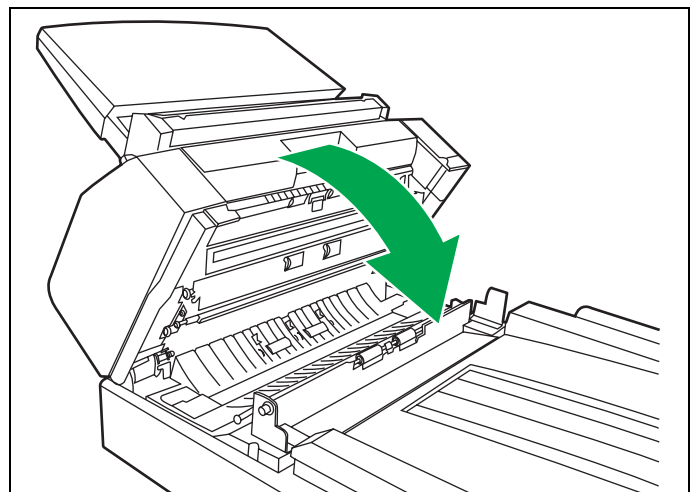
- 2** Pull the exit door release, open the exit door and pull the jammed document.

- When the jammed paper cannot be removed, remove it from the document feeder. Refer to page 24.



- 3** Close the exit door.

- When you close the exit door, close it securely until it is locked.

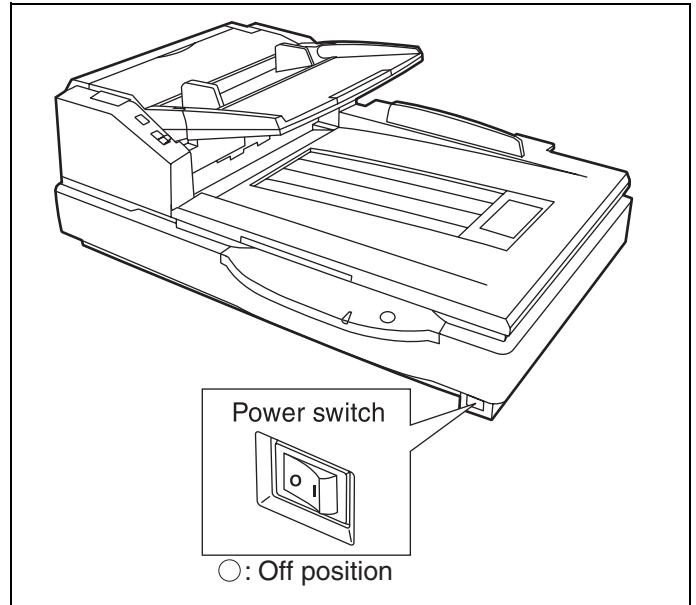


Cleaning the Unit

■ Outside of the scanner

Clean the unit at least once a month.

- 1** Turn the power off.
- 2** Clean the cover with a soft cloth.
 - The ADF insertion and exit slots get dirty easily, therefore, proper cleaning is required.
- 3** Remove dirt and dust from the fan exhaust vent with a brush.



■ Inside the scanner

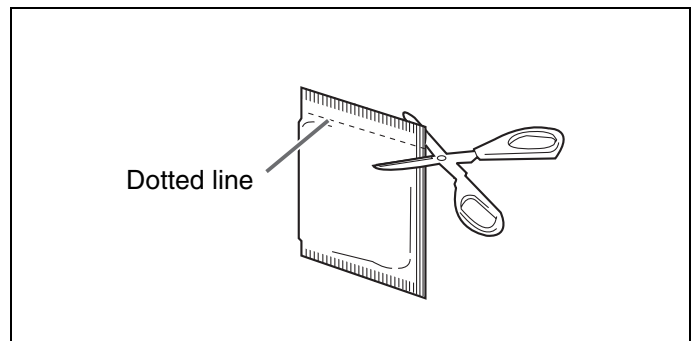
Clean the unit at least once a week or when 20,000 sheets have been scanned, whichever comes first.

- Clean the rollers, sensors and double feed detector if paper jamming or multiple-sheet feeding occurs frequently. (Refer to pages 27–33.)
- Clean the ADF glass, reference plate when black or white lines appear on the scanned images. (Refer to page 31.)
- Clean the flatbed glass and document cover detector. (Refer to page 34.)
- If the documents you scan are dirty, then the scanner components will also become dirty. To maintain proper scanning, clean the scanner components frequently.
- When scanning with the flatbed and black dots or white patches occurs, open the document cover, and clean the flatbed glass and flatbed sheet using the accessory roller cleaning paper.

Roller cleaning paper

Open the bag on the dotted line and take out the roller cleaning paper.

- If the roller cleaning paper bag is left opened for a long period of time before using it, the alcohol will evaporate. Please use the roller cleaning paper immediately after opening the bag.



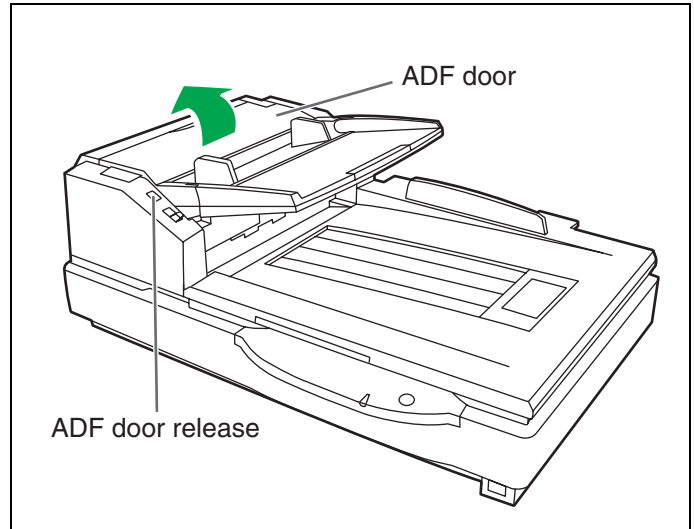
※ The roller cleaning paper (Model No. KV-SS03) is available from the dealer where you purchased your scanner.

For supplies and accessories: Call 1-800-346-4768 (U.S.A. only) or your dealer.

■ Cleaning the paper feed roller, separation roller, and retard roller

1 Turn the power off.

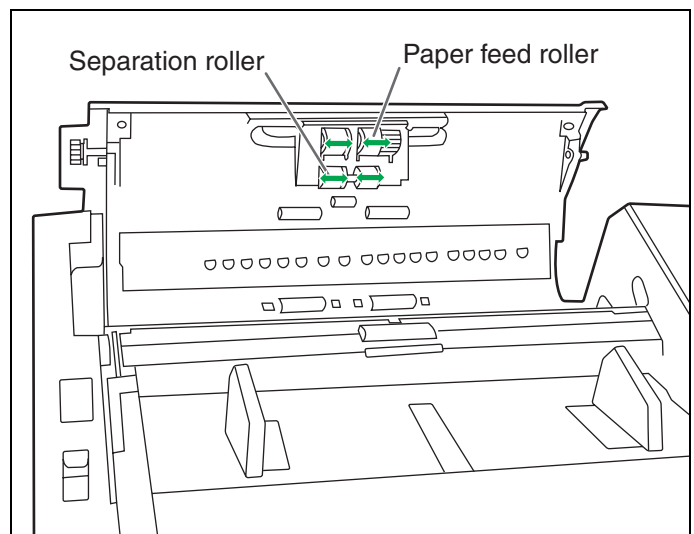
2 Push the ADF door release to open the ADF door.



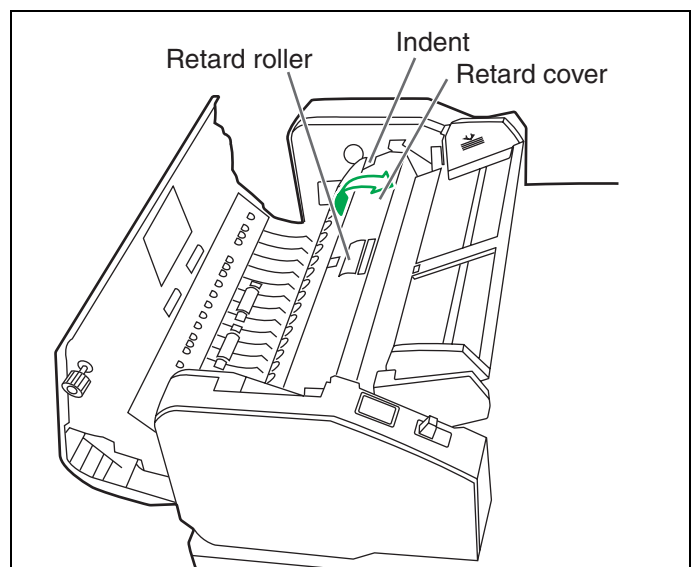
3 Use the roller cleaning paper (KV-SS03) to remove the dirt from the surfaces of the paper feed roller and separation roller.

Note:

- When wiping off the dirt on the roller surfaces, hold the rollers to prevent them from rotating, and wipe the roller all the way around them proceeding from one end to the other in the direction of the arrows shown in the figure.



4 Open the retard cover in the direction of the arrow shown in the figure by using the indent on the back side.

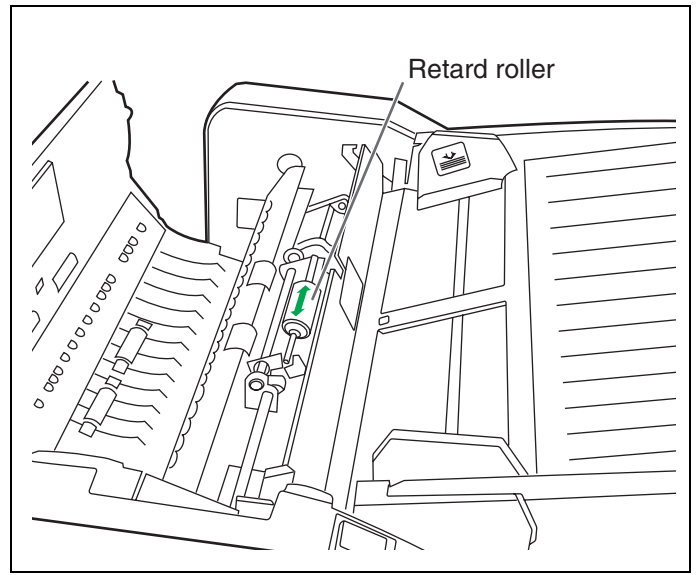


Cleaning the Unit

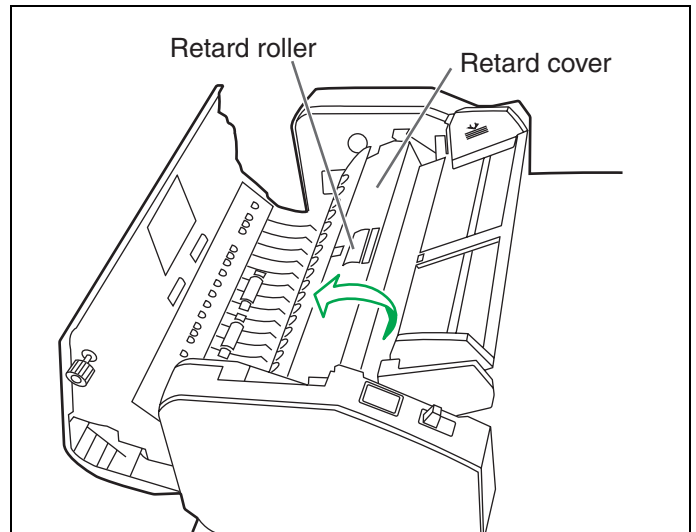
- 5** Use the roller cleaning paper (KV-SS03) to remove the dirt from the surface of the retard roller.

Note:

- When wiping off the dirt on the roller surfaces, hold the rollers to prevent them from rotating, and wipe the roller all the way around them proceeding from one end to the other in the direction of the arrows shown in the figure.



- 6** Close the retard cover in the direction of the arrow shown in the figure.

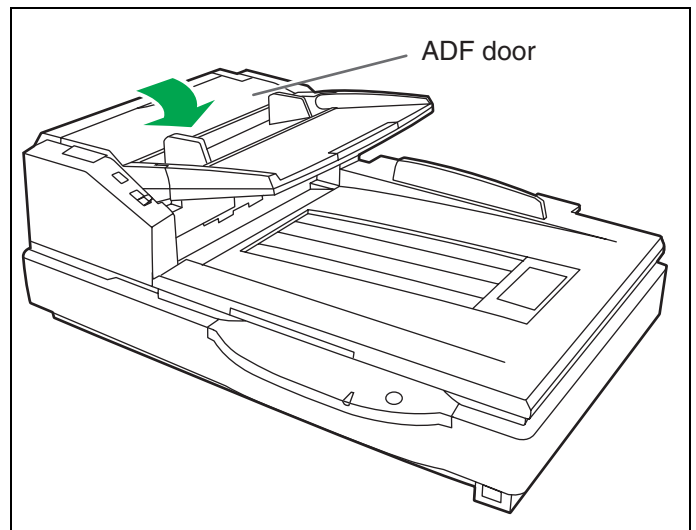


- 7** Close the ADF door.

- When you close the ADF door, close it securely until the door is locked.

- 8** Clear the roller cleaning counter with User Utility.

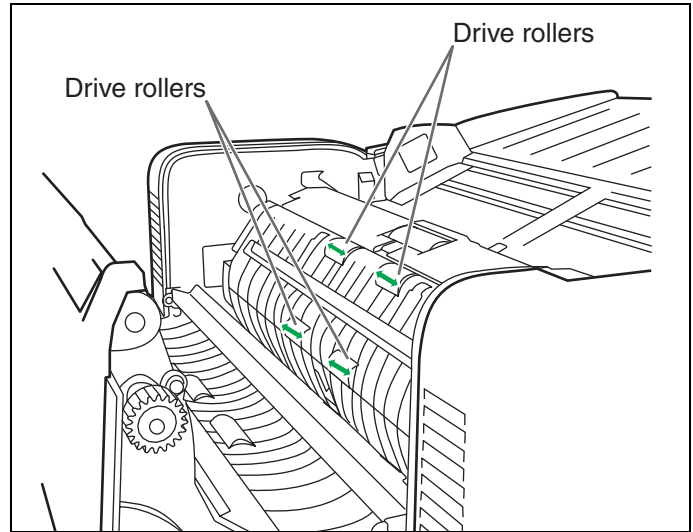
- After cleaning the above rollers, click [Clear Counter] button for [After Clean Roller] with User Utility.



■ Cleaning the drive rollers and free rollers

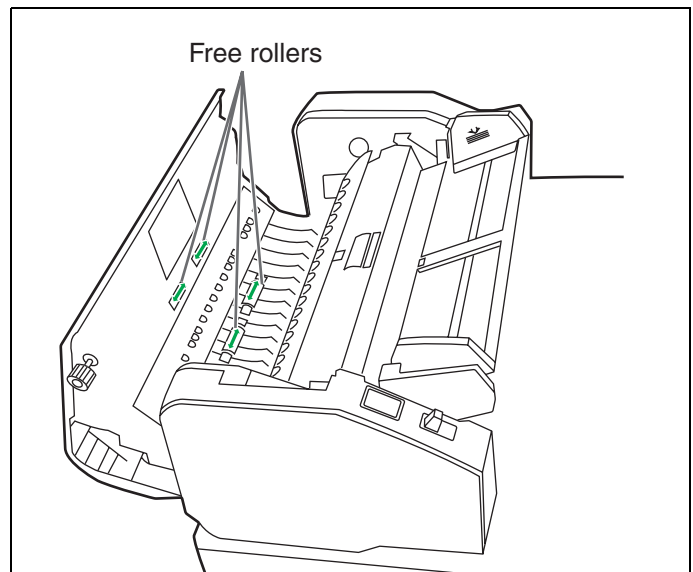
- 1** Turn the power off.
- 2** Push the ADF door release to open the ADF door.
- 3** Use the roller cleaning paper (KV-SS03) to remove the dirt from the surfaces of the 4 drive rollers.

- When wiping off the dirt on the roller surfaces, hold the rollers to prevent them from rotating, and wipe the roller all the way around them proceeding from one end to the other in the direction of the arrows shown in the figure.



- 4** Use the roller cleaning paper (KV-SS03) to remove the dirt from the surfaces of the 4 free rollers.

- When wiping off the dirt on the roller surfaces, hold the rollers to prevent them from rotating, and wipe the roller all the way around them proceeding from one end to the other in the direction of the arrows shown in the figure.

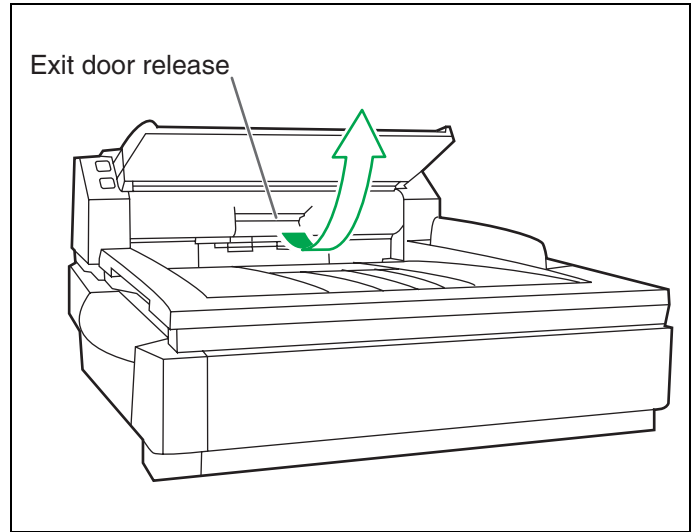


- 5** Close the ADF door.
 - When you close the ADF door, close it securely until it is locked.

Cleaning the Unit

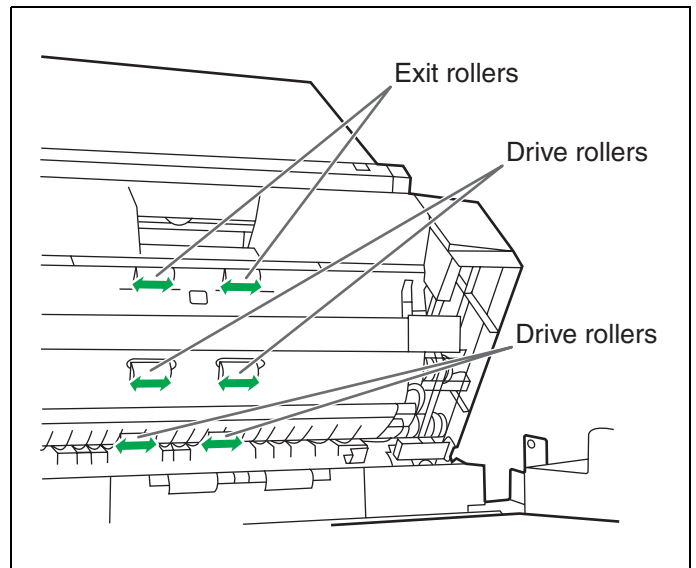
■ Cleaning the drive rollers, free rollers, and exit rollers

- 1** Turn off the scanner.
- 2** Pull the exit door release to open the exit door.



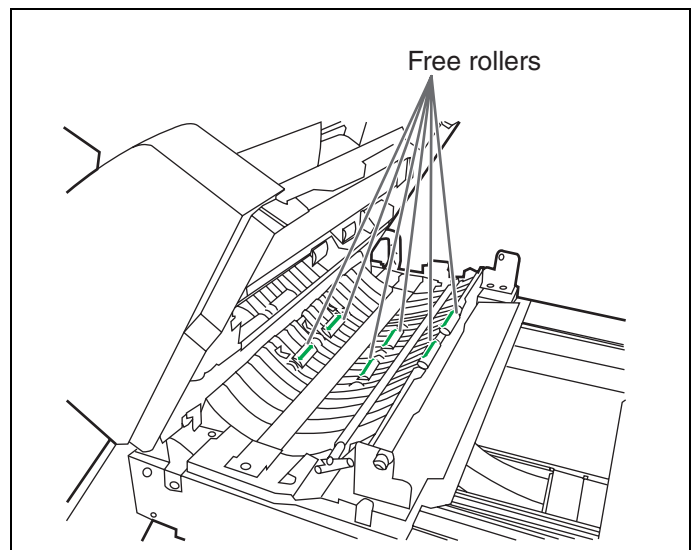
- 3** Use the roller cleaning paper (KV-SS03) to remove the dirt from the surfaces of the 4 drive rollers and the 2 exit rollers.

- When wiping off the dirt on the roller surfaces, hold the rollers to prevent them from rotating, and wipe the roller all the way around them proceeding from one end to the other in the direction of the arrows shown in the figure.

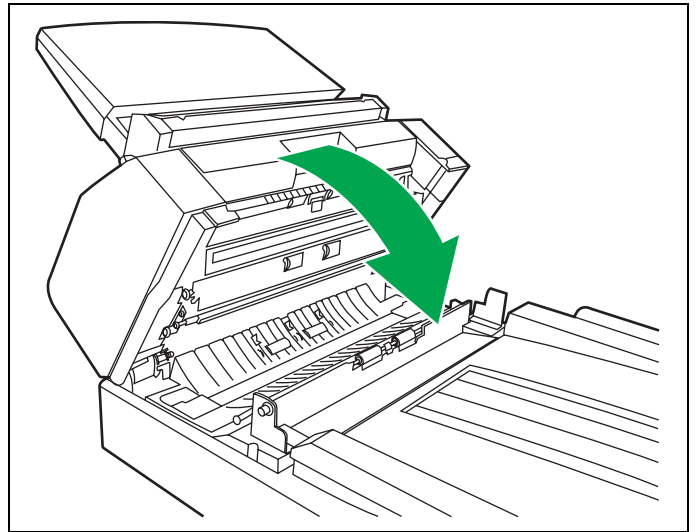


- 4** Use the roller cleaning paper (KV-SS03) to remove the dirt from the surfaces of the 6 free rollers.

- When wiping off the dirt on the roller surfaces, hold the rollers to prevent them from rotating, and wipe the roller all the way around them proceeding from one end to the other in the direction of the arrows shown in the figure.

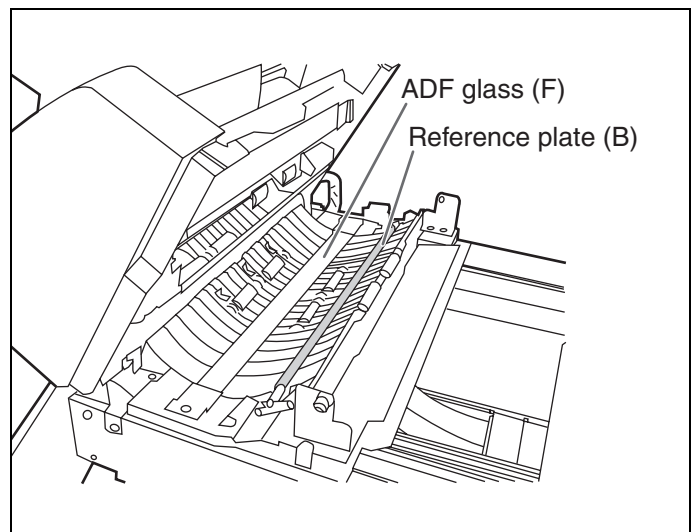


- 5** Close the exit door.
- When you close the exit door, close it securely until it is locked.



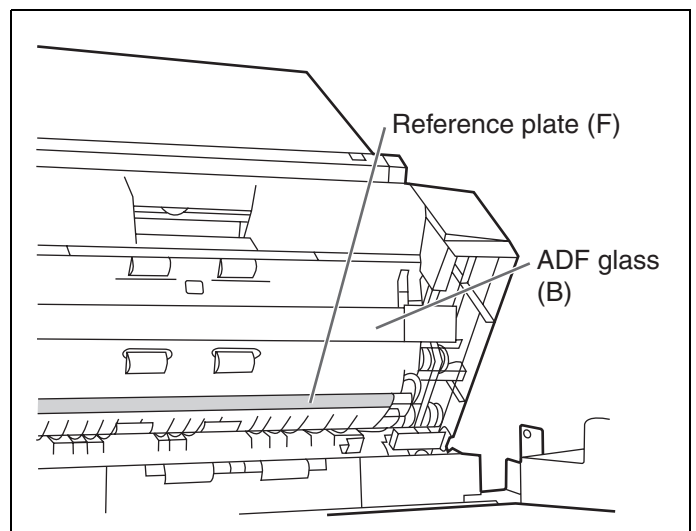
■ Cleaning the reference plates and ADF glasses

- 1** Turn off the scanner.
- 2** Pull the exit door release to open the exit door.
- 3** Clean the ADF glass (F) and reference plate (B) with the roller cleaning paper (KV-SS03).



- 4** Clean the ADF glass (B) and reference plate (F) with the roller cleaning paper (KV-SS03).

- 5** Close the exit door.
- When you close the exit door, close it securely until it is locked.

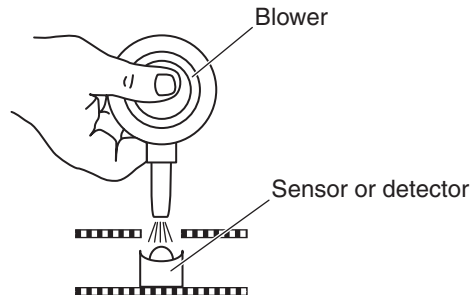


Cleaning the Unit

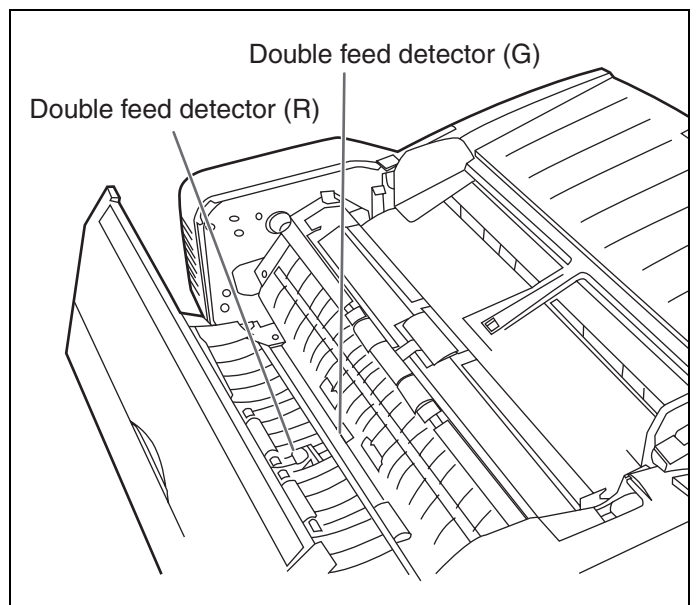
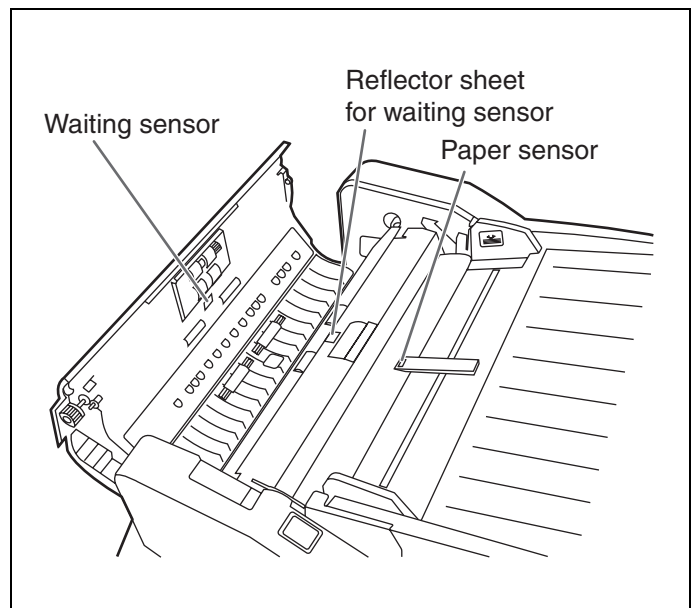
■ Cleaning the paper and waiting sensors, double feed detector

How to clean sensors (detectors) and reflectors.

Remove the brush from the accessory blower and blow off the dirt with the blower.



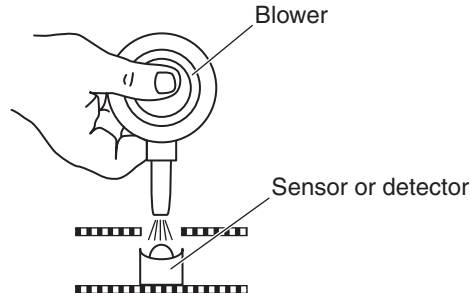
- 1** Turn off the scanner.
- 2** Push the ADF door release to open the ADF door.
- 3** Blow off the dirt on the surface of the paper sensor and waiting sensor with an accessory blower.
- 4** And also blow off the dirt on the surface of the reflector sheet for the waiting sensor with the accessory blower.
- 5** Blow off the dirt from the double feed detector (G) and double feed detector (R) with the accessory blower.
- 6** Close the ADF door.
 - When you close the ADF door, close it securely until it is locked.



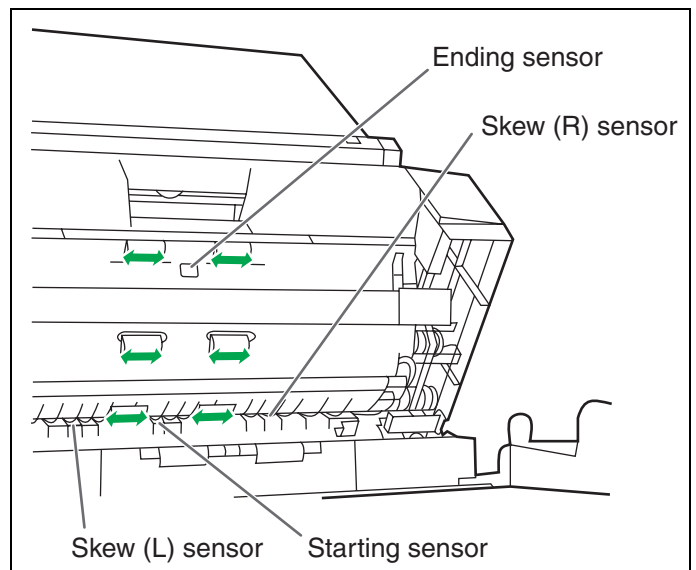
■ Cleaning the starting, skew and ending sensors

How to clean sensors (detectors) and reflectors.

Remove the brush from the accessory blower and blow off the dirt with the blower.

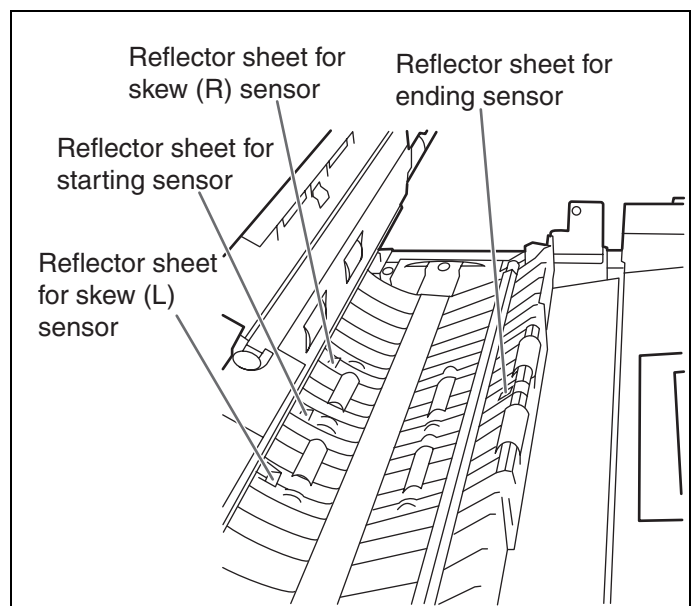


- 1** Turn off the scanner.
- 2** Pull the exit door release to open the exit door.
- 3** Blow off the dirt on the surface of the starting, skew (L), skew (R), and ending sensors with the accessory blower.



- 4** And blow off the dirt from the reflector sheets for the starting, skew (L), skew (R), and ending sensors with the blower.

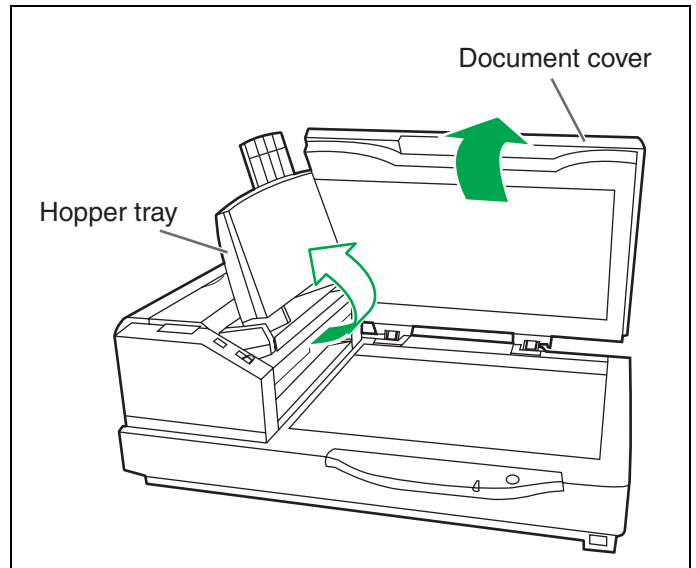
- 5** Close the exit door.
 - When you close the exit door, close it securely until it is locked.



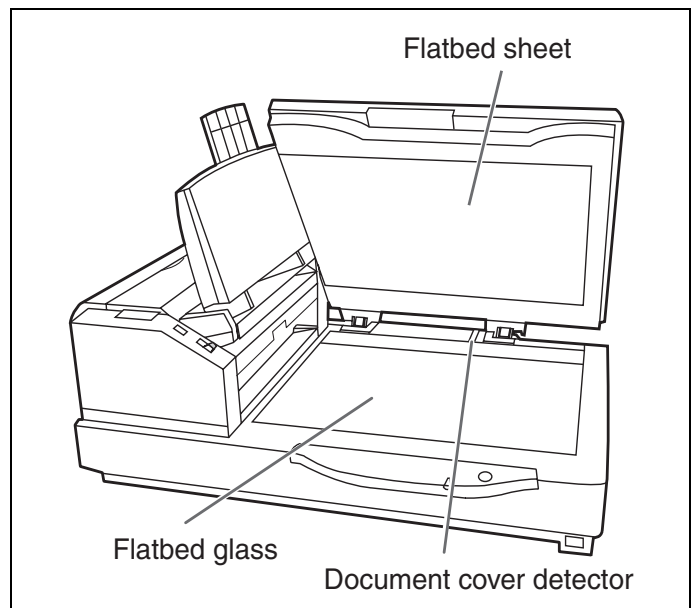
Cleaning the Unit

■ Cleaning the flatbed glass and document cover detector

- 1** Turn off the scanner.
- 2** Fold the hopper tray in the direction of the arrow.
- 3** Open the document cover.

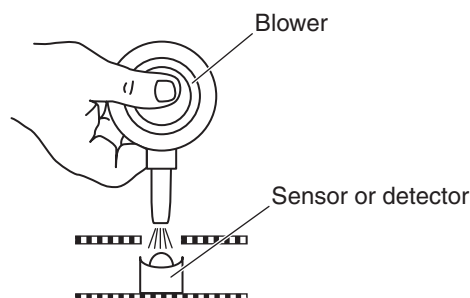


- 4** Clean up the surface of flatbed glass with the roller cleaning paper (KV-SS03) to remove the dirt. (Also clean up the surface of the flatbed sheet, as required.)
- 5** Blow off the dirt from the document cover detector.
- 6** Close the document cover and put back the hopper tray to the original position.



How to clean sensors (detectors) and reflectors.

Remove the brush from the accessory blower and blow off the dirt with the blower.

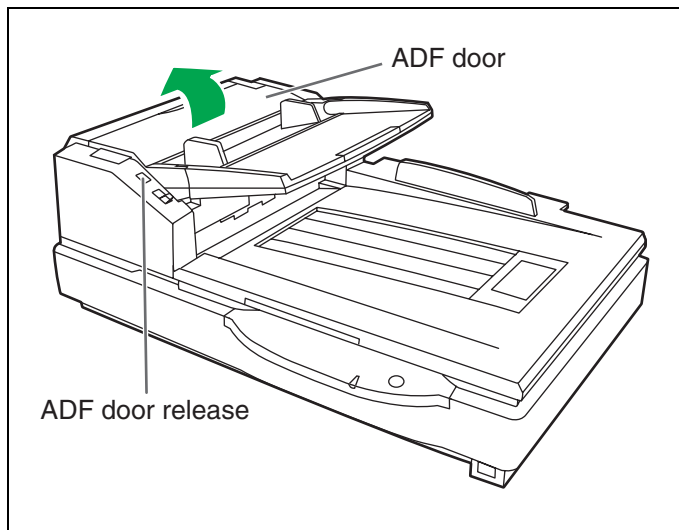


Replacing Consumable Roller Modules

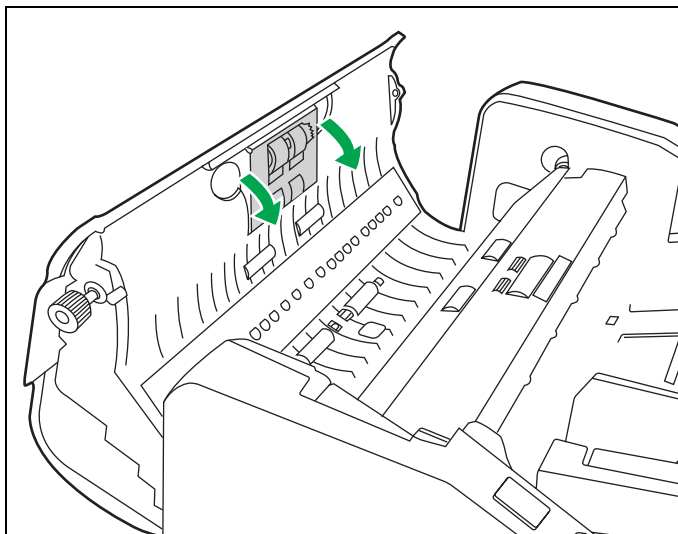
■ Replacing paper feed roller modules

Recommended change : 300,000 scans

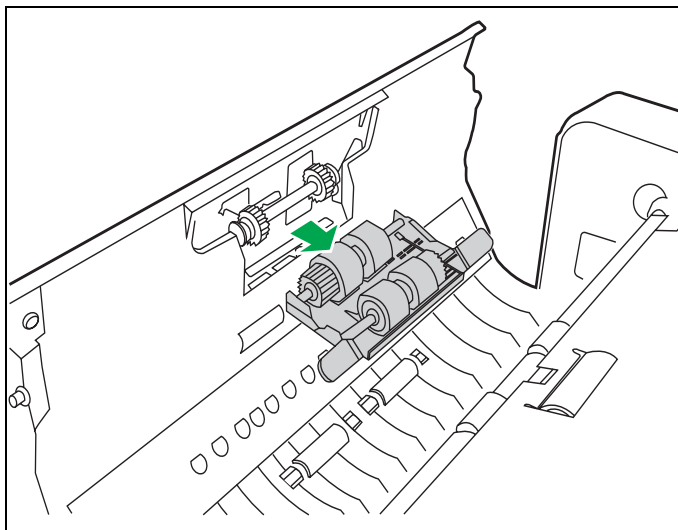
- 1** Turn the power off.
- 2** Push the ADF door release to open the ADF door.



- 3** Pull down the paper feed roller module in the direction of the arrow.

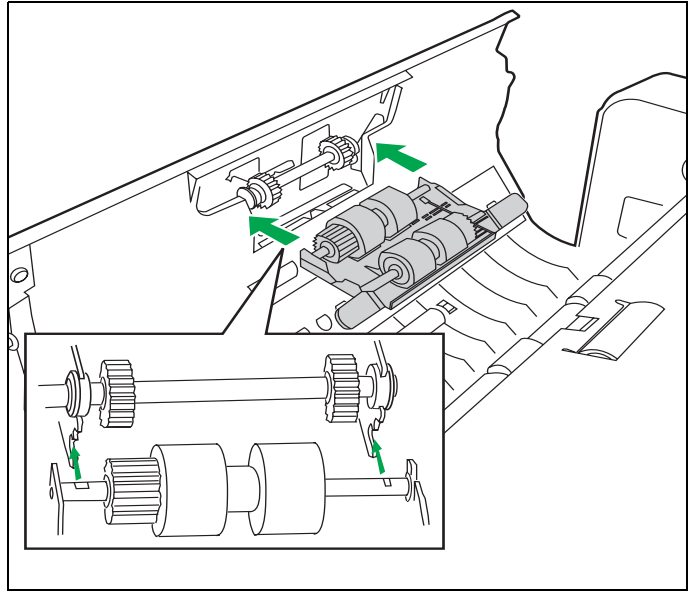


- 4** Remove the paper feed roller module as shown on the figure.
- 5** Open the optional roller exchange kit (KV-SS015), and take out the new paper feed roller module.



Replacing Consumable Roller Modules

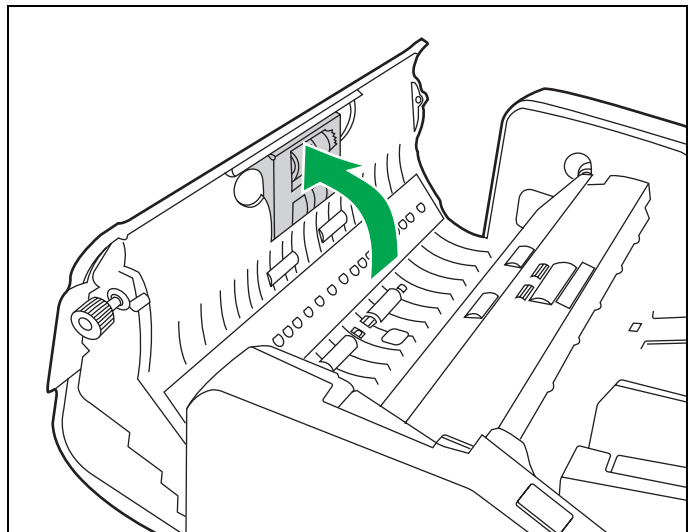
- 6** Install the new paper feed roller module.



- 7** Push up the new paper feed roller module in the direction of the arrow, so that it is locked by the magnets on both sides.

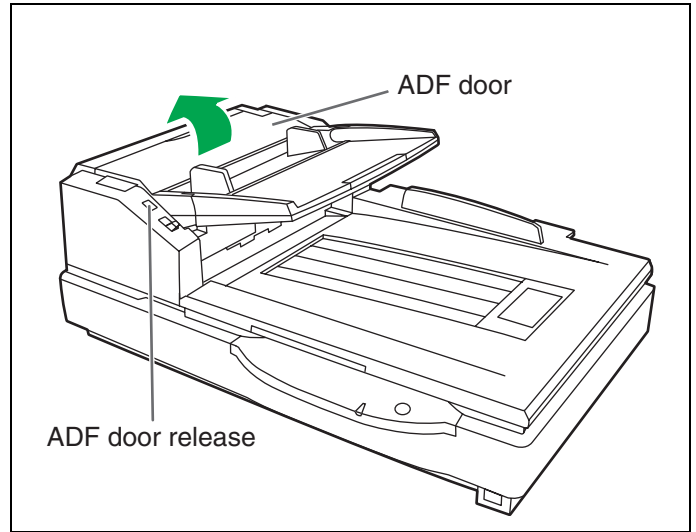
- 8** Close the ADF door.

- When you close the ADF door, close it securely until it is locked.

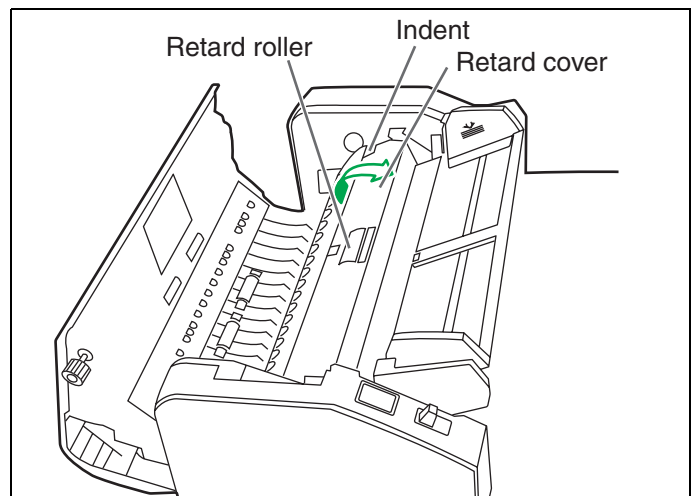


■ Replacing Retard Roller

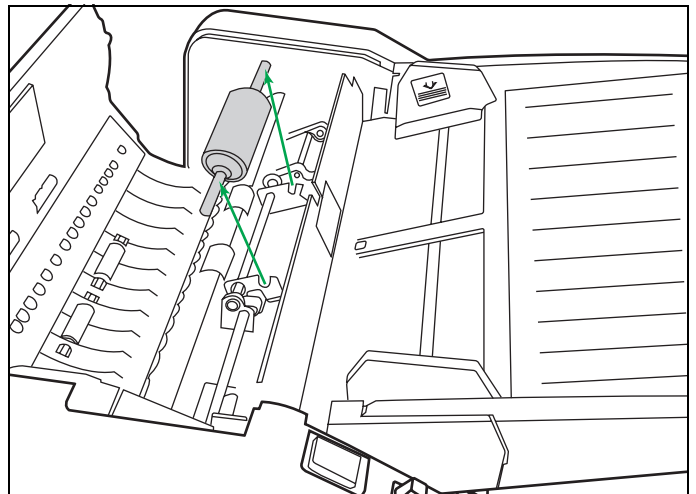
- 1** Turn the power off.
- 2** Push the ADF door release to open the ADF door.



- 3** Open the retard cover in the direction of the arrow shown in the figure by using the indent on the back side.

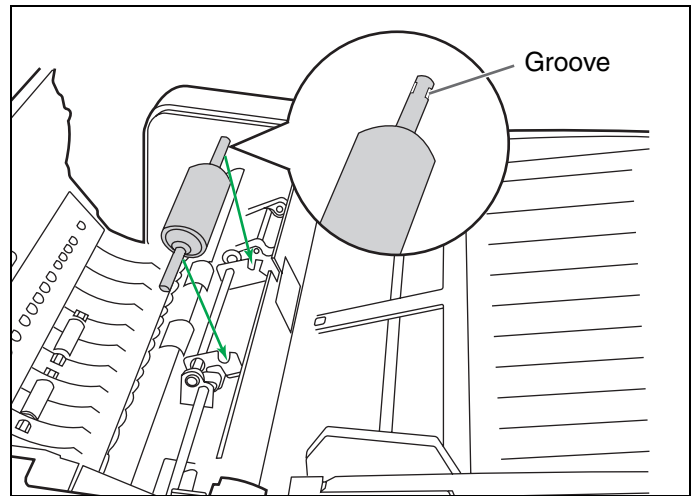


- 4** Remove the retard roller, pulling up the shaft in the direction of the arrow.
- 5** Take out the new retard roller in the optional roller exchange kit (KV-SS015).



Replacing Consumable Roller Modules

- 6** Install the new retard roller by matching the groove of its shaft with the groove of the metal holder.



- 7** Close the retard cover.
- 8** Close the ADF door.
- When you close the ADF door, close it securely until it is locked.
- 9** Clear the roller replacing counter with User Utility.
- Click [Clear Counter] button for [After Replace Roller] with User Utility.

Shading Adjustment

●What is the purpose of the shading adjustment?

The process whereby the variations in the distribution of the lamp's light quantity are transformed into a fixed output within the scanning range is known as shading adjustment. It can be carried out by means of the User Utility using the special shading paper which is provided with this scanner.

●When shading adjustment is required

Proceed with the compensation when the colors in some parts of the scanned images differ in the extreme, or when the image quality fails to be improved even after the inside the scanner is cleaned.

●Before proceeding with the shading adjustment

Before proceeding, be absolutely sure to thoroughly clean the ADF glass (F) area, ADF glass (B) area, reference plate (F) and reference plate (B) as well as the transport path and drive rollers of the scanning unit.

If the shading adjustment is carried out while these parts are still dirty, it will not be possible to eliminate the lines that form on the scanned images.

●Shading adjustment procedure

1. Start the User Utility.
2. Click "User Shading" on the main menu, and operate as the image display dictates. For further details, refer to section 4.6 in the User Utility Reference Manual.

●Caution

If the scanned images are still lined after the shading adjustment has been performed and if these lines are not eliminated even after the ADF glass areas have been cleaned, it means that the shading has not been compensated properly. Clean the parts again, and then proceed with the shading adjustment.

Repacking Instructions

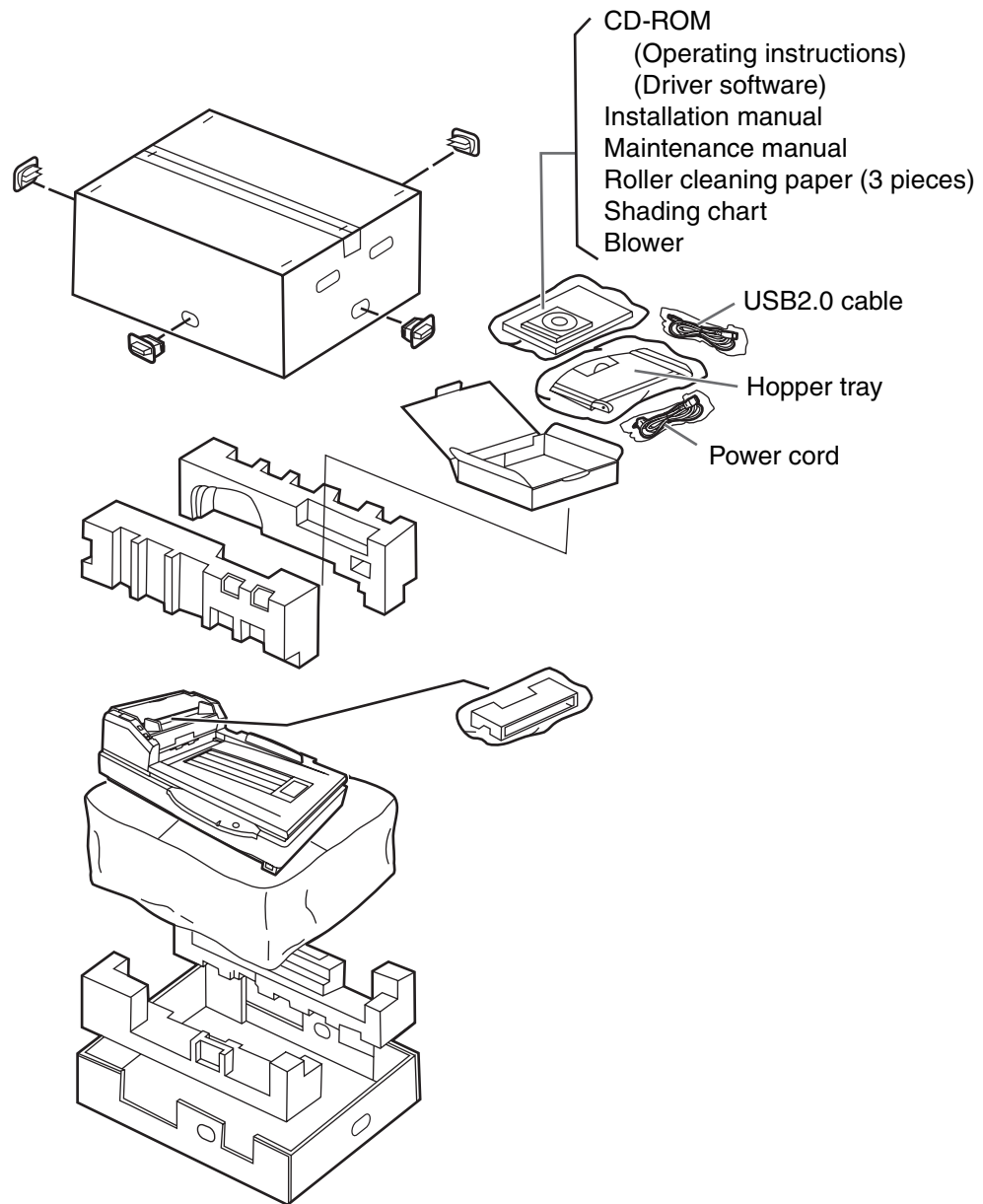
It is highly recommended that you keep the original carton and ALL packing materials. If you need to transport or ship your scanner, please follow these instructions:

- Use the original carton and all of the original packing materials.
- Improper repacking of the scanner may result in a service charge to repair the unit.
- The scanner should be handled in the correct (horizontal) position.

Materials Required:

- Original scanner carton & packing materials
- Shipping tape and scissors

- 1** Turn the power switch off and disconnect your scanner from the electrical outlet and the interface cable.
- 2** Remove the hopper tray and attach the protective sheets with tapes.
- 3** Pack the scanner.



Specifications

Item		Model No.	KV-S7065C
Scanner	Scanning face		Duplex scanning
	Scanning method		CIS (Contact-type color Image Sensor)
	Readout speed	Flatbed	0.704 sec (Letter, 200 dpi) 320 μsec/line
		ADF	Simplex scanning: Approx. 60 sheets/min. (Letter, fed lengthwise, 200 dpi) Approx. 60 sheets/min. (A4, fed lengthwise, 200 dpi) Duplex scanning: Approx. 50 sheets/min. (Letter, fed lengthwise, 200 dpi) Approx. 50 sheets/min. (A4, fed lengthwise, 200 dpi)
	Resolution	Flatbed/ADF	Main scanning direction: 100-600 dpi (1 dpi step) Sub-scanning direction: 100-600 dpi (1 dpi step) The optical resolution is 600 dpi.
	Tonal gradation		Binary mode, Grayscale mode (8 bit), 64-step gradation (dither) mode, Error diffusion mode
	Image control		Image emphasis, Dynamic Threshold, Automatic separation, Invert, White level from paper
	Paper	Size for Flatbed	~ 297×432 mm (11.7×17 in.)
		Size for ADF	Scanning size: 48×70 mm (1.9×2.8 in.)~ 297 mm (11.7 in.)×635 mm (25 in.)
		Thickness for ADF	0.05 to 0.15 mm (2.0 to 5.9 mils) Business card: Thicker than 0.15 mm (5.9 mils) Note: 1 mil = 1/1000 in.
Weight for ADF		40 to 127 g/m ² (10.6 to 34 lbs.) Business card: Thicker than 127 g/m ² (34 lbs.)	
Hopper capacity		200 sheets [64 g/m ² (17 lbs.)]	
Unit	External dimensions (Width×Depth×Height)		755×508×289 mm (29.7×20×11.4 in.)
	Mass (Weight)		29 kg (64 lbs.)
	Power requirement		AC100–120 V 50/60 Hz AC220–240 V 50/60 Hz
	Power consumption	Maximum (Scanning)	1.5 A (AC100–120 V) 0.7 A (AC220–240 V)
		Minimum (Standby)	0.6 A (AC100–120 V) 0.3 A (AC220–240 V)
Sleep mode		8 W (AC100–120 V) 8 W (AC220–240 V)	
Operating Environment	Operating temperature and humidity		15 °C to 30 °C (59 °F to 86 °F), 30% to 80% RH
Storage Environment	Storage temperature and humidity		0 °C to 35 °C (32 °F to 95 °F), 10% to 80% RH
Option	Roller exchange kit (KV-SS015), Imprinter unit (KV-SS014), Ink cartridge (KV-SS021), Roller cleaning paper (KV-SS03)		

- “Weight in pounds” of paper represents the weight of 500 [432×559 mm (17×22 inches)] sheets.

Troubleshooting

If a problem occurs while the unit is being used, check the following items and check the scanner status with the User Utility. If the unit still malfunctions, turn it OFF, unplug the power cord and call for service.

Symptom	Possible Cause	Remedy	
The LED does not light when the power switch is turned ON.	The power cord is not plugged in.	Insert the power plug firmly.	
	Problem with power supply.	Disconnect the scanner from the electric outlet and call for service.	
The computer does not recognize the scanner.	The scanner is not connected to the computer correctly.	Connect the cables correctly.	
	The scanner is not registered correctly.	Uninstall the scanner from the computer. Register the scanner hardware again. (Refer to the Installation Manual on pages 18 and 19.)	
	SCSI connection	The computer cannot recognize the SCSI card.	Check your computer whether the SCSI card is installed correctly using the device manager's property. Refer to the Installation Manual on page 17.
		The same ID number is used for the scanner and the other device.	Use the different SCSI ID numbers for each devices. (See page 13.)
		The scanner was turned on after the computer was turned on.	Turn the computer OFF. Turn the scanner ON, and then turn the computer ON again.
	USB connection	The USB interface of the computer is not installed correctly.	Check the computer whether the USB interface of your computer is installed correctly using the device manager's property.
		The scanner is connected via USB hub.	Do not connect via USB hub.
		The cable without High-Speed logo is used.	Use the cable with High-Speed logo.
	Scan speed is slow at USB connection.	The scanner is connected with USB 1.1.	Connect with USB 2.0.
The ADF does not open when the ADF door release is pushed.	The ADF door is not closed properly.	Push the ADF door release again after you close the ADF door until it is locked.	
(ADF) The document has been loaded on the hopper tray. But the scanner does not start scanning.	The document is not loaded properly.	Load the document correctly. (See page 14.)	
	The sensor cannot detect the document as the edge of the document is curled.	Flatten the document and load it again.	

Symptom	Possible Cause	Remedy
(ADF) Double feeding problems occurs frequently or the scanner stops loading while scanning.	The rollers are dirty.	Clean all of the rollers. (See page 27.)
	The rollers have reached their life expectancy.	Replace the paper feed roller module and the retard roller module. (See page 35 and page 37.)
	The document is curled or folded.	Flatten the document and load it again after reducing the pages.
	The irregular type document is to be scanned.	Make a copy of the document on specified paper (see page 14) and scan the copy.
	The document has a length of less than 70 mm (2.75 in.).	Make a copy of the document on paper of the specified size and scan the copy. (See page 14.)
(ADF) Scanned image is aslant.	The document guides are not adjusted to the size of the document to be scanned. The document to be scanned is set aslant on the hopper tray.	Adjust the document guides properly to the size of the document to be scanned.
	Right and left sides of the document to be scanned are not the same in height, because of curl and fold.	Remove curl and fold then reduce the amount of the document.
(ADF) The scanned document is blank.	The document to be scanned was loaded face down (upside down).	Load the document correctly. (See page 17.)
Vertical lines appear on the scanned document.	The ADF glasses and flatbed glass are dirty.	Clean the ADF glasses and flatbed glass. (See page 31.)
	The reference plate and flatbed sheet are dirty.	Clean the reference plate and flatbed sheet. (See page 31 and page 34.)
The scanning density is uneven.	The ADF glass, reference plate, flatbed glass and flatbed sheet are dirty.	Clean the ADF glass, reference plate, flatbed glass and flatbed sheet. (See page 31 and See page 34.)
	The quantity distribution of light varies.	Adjust shading. Please refer to section 4.6 of a user utility reference manual.
The color of the scanned document is extremely different from the original document.	The settings of the computer monitor is wrong.	Adjust the computer monitor settings.
Dark spots or noise appear on the scanned documents.	The ADF glass, reference plate, flatbed glass and flatbed sheet are dirty.	Clean the ADF glass, reference plate, flatbed glass and flatbed sheet. (See page 31 and See page 34.)
Scanned image has moire fringes such as stripe or wavy pattern noise.	It is caused by printing pattern of the document and the congeniality of the scanning resolution.	Please use the moire reduction function or change the resolution and try to scan.

Index

	Page		Page
A		F	
AC inlet	10	FAN exhaust vent	10
Acceptable documents	14	Fan exhaust vent	26
Accessories	26	Flatbed	19, 23, 41
ADF door	10, 24, 27	Flatbed glass	11, 26, 34
ADF door release	10, 24, 27	Flatbed sheet	11, 23, 34
ADF glass	11, 31	Free rollers	29, 30
B		H	
Back stopper	10	Hopper	10, 16
Blower	32, 33, 34	Hopper extension tray	10, 16
C		Hopper tray	10, 14, 19
CD-ROM	1, 9, 40	I	
Cleaning the unit	26–34	Image control	41
Component identification	10	Imprinter door	10
Control sheet	21	Interface	2
CPU	2	L	
D		Landscape	17
DIP switch	13	LED	12, 42
Document cover	10, 23	Limit mark	17
Document cover detector	34	Loading Documents	14, 19
Document feeder	24	M	
Document guide	10, 14, 15, 17, 18	Manual feed selector	10, 16, 18
Documents to avoid	14	Memory	2
Double feed detector	32	Multiple sheets	15
Drive rollers	29, 30	N	
E		Notice	4
Ending sensors	33	O	
Energy Star	2	Operating Environment	41
Exit door	10, 22, 25	Option	41
Exit door release	11, 22, 33	OS	2
Exit rollers	30		
Exit stopper	10		
Exit tray	10, 14		
External dimensions	41		

	Page
P	
Paper	41
Paper feed roller	27, 35
Paper jams	24
Paper sensor	32
Paper slot	18
Portrait	17
Power consumption	41
Power cord	4, 10, 40
Power indicator	10
Power requirement	41
Power switch	10, 12
Precautions	7

R	
Reference plate	11, 22, 31
Repacking	40
Replacing Consumable	35
Retard cover	27, 28, 37
Retard roller	27, 37
Roller cleaning paper	6, 26

S	
SCSI Connection	2
SCSI connector	10
SCSI ID setting	13
Separation roller	27
Shading	39, 43
Specifications	41
Starting sensor	33
STOP/START button	10
System requirements	2

T	
Top cover	10
Troubleshooting	42

U	
USB connection	2, 12, 13

	Page
USB connector	10
USB hub	2, 42
User utility	12, 28, 38, 39

W	
Waiting sensor	32

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