



Kodak

Sidekick
1400u Scanner

User's Guide

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Safety

User Precautions

- Place the scanner on a sturdy, level work surface capable of supporting 9.1 kg (20.1 lbs) and leave adequate clearance on all sides of the scanner.
- Do not install the scanner in a location subject to dust, humidity or steam. This may cause electrical shock or a fire. Only use the scanner indoors in a dry location.
- Make sure the electrical power outlet is located within 1.52 meters (5 feet) of the scanner and is easily accessible.
- When disconnecting equipment from the electric socket, be sure to grasp the plug, not the cord.
- Be sure the power cord is securely plugged into the wall outlet. Failure to do so may cause electrical shock or fire.
- Do not damage, knot, cut or modify the power cord or use a damaged power cord. This may cause electrical shock or fire.
- The scanner requires a properly grounded power outlet. Do not use an extension cord or power strip with the scanner.
- Do not leave the power cord plugged into the AC outlet if the scanner is not used for an extended period of time.
- Leave sufficient space around the power outlet so it can be easily unplugged in case of an emergency.
- Do not use the scanner if it becomes inordinately hot, has a strange odor, emits smoke, or makes unfamiliar noises. Immediately stop the scanner and disconnect the power cord from the power outlet. Contact Kodak Service.
- Do not disassemble, service or modify the scanner except as explained in the User's Guide.
- Do not move the scanner with the power cord and interface cable attached. This may cause damage to the cord/cable. Remove the power cord from the wall outlet before moving or relocating the scanner.
- Follow the Kodak recommended cleaning procedures. Do not use air, liquid or gas spray cleaners. These cleaners displace dust, dirt and debris to other locations within the scanner, which may cause the scanner to malfunction.
- Material Safety Data Sheets (MSDS) for chemical products are available on the Kodak website at: www.kodak.com/go/msds. When accessing the MSDSs from the website, you will be required to provide the catalog number or keyword of the consumable you want the Material Safety Data Sheet for. See the section entitled, "Supplies and consumables" later in this guide for supplies and catalog numbers.

Users and their employers need to observe the common sense precautions applicable to the operation of any machinery. These include, but are not limited to, the following:

- Do not wear loose clothing, unbuttoned sleeves, etc.
- Do not wear loose jewelry, bracelets, bulky rings, long necklaces, etc.
- Hair length should be kept short, using a hair net if needed, or tying long hair up in a bundle.
- Remove all other loose objects from the area that could be drawn into the machine.
- Take sufficient breaks to maintain mental alertness.
- Use only the recommended cleaning supplies.
- Do not use canned/compressed air.

Supervisors should review their employee practices and make compliance with these precautions a part of the job description for operation of the scanner or any mechanical device.

Environmental information

- The *Kodak Sidekick* Scanners are designed to meet worldwide environmental requirements.
- Guidelines are available for the disposal of consumable items that are replaced during maintenance or service; follow local regulations or contact Kodak locally for more information.
- For disposal or recycling information, contact your local authorities or, in the USA, visit the Electronics Industry Alliance website: www.eiae.org.
- The product packaging is recyclable.
- *Kodak Sidekick* Scanners are Energy Star compliant and shipped from the factory with the default time set to 15 minutes.

European Union



This symbol indicates that when the last user wishes to discard this product, it must be sent to appropriate facilities for recovery and recycling. Please contact your local Kodak representative or refer to www.kodak.com/go/recycle for additional information on the collection and recovery programs available for this product.

Please consult www.kodak.com/go/REACH for information about the presence of substances included on the candidate list according to article 59(1) of Regulation (EC) No. 1907/2006 (REACH).

Acoustic emission

Maschinenlärminformationsverordnung – 3, GSGV
Der arbeitsplatzbezogene Emissionswert beträgt <70 dB(A).

[Machine Noise Information Ordinance — 3, GSGV
The operator-position noise emission value is <70 dB(A).]

EMC statements

United States

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 their own expense.

Japan

This is a Class A product based on the standard of the VCCI Council. If this equipment is used in a domestic environment, radio interference may occur, in which case, the user may be required to take corrective actions.

この装置は、クラス A 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。VCCI-A

- 電源プラグは抜き差しが容易にできる近くのコンセントに接続してください
- 付属の電源コードは本機専用です。他の機器には使用しないでください

Taiwan

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

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。

Peoples Republic of China

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

声明, 该产

此为A级产品, 在生活环境中品可能会造成无线电干扰。在这种情况下, 可能需要用户对其干扰采取切实可行的措施

Korea

Please note that this equipment has obtained EMC registration for commercial use. In the event that it has been mistakenly sold or purchased, please exchange it for equipment certified for home use.

이 기기는 업무용으로 전자파적합등록을 한 기기이오니 판매자 또는 사용자는 이점을 주의하시기 바라며, 만약 잘못 판매 또는 구입하였을 때에는 가정용으로 교환하시기 바랍니다.

Germany

- Machine noise information regulation - 3.GPSGV, the maximum sound pressure level is 70 dB(A) or less, in conformity with EN ISO 7779.
- This device is not intended for use in the direct field of view at visual display workplaces. To avoid incommoding reflections at visual display workplaces this device must not be placed in the direct field of view.

Für Benutzer in der BRD (nur für Deutschland)

- Maschinenlärminformations-Verordnung - 3. GPSGV, der höchste Schalldruckpegel beträgt £ 70 dB(A) oder weniger gemäss EN ISO 7779.
- Das Gerät ist nicht für die Benutzung im unmittelbaren Gesichtsfeld am Bildschirmarbeitsplatz vorgesehen. Um störende Reflexionen am Bildschirmarbeitsplatz zu vermeiden, darf dieses Produkt nicht im unmittelbaren Gesichtsfeld platziert werden.

European Union

For information on Compliance with EU relevant Regulatory Directives, contact your Authorised representative:

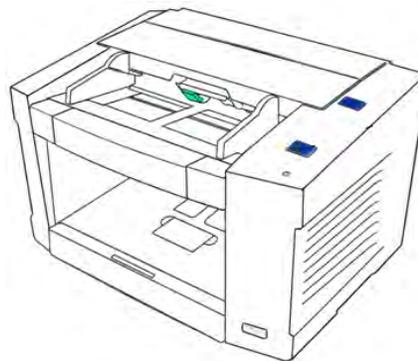
Kodak GMBH
Hedelfinger Strasse 60
D-70327 Stuttgart, Germany
Telefon: (+49) 0711 406 5505
Fax: (+49) 0711 406 5869

1 Overview

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With the *Kodak Sidekick 1400u* Scanner you get high quality and efficient scanning. Packed with professional-grade scanning features, the *Kodak Sidekick 1400u* Scanner provides everything you need to connect and operate a total desktop scanning solution. The 1400u Scanner is perfect for small offices or departments that need convenience and a professional-quality scanning solution.



The *Kodak Sidekick 1400u* Scanner scans up to 43 pages per minute, includes ultrasonic multifeed detection and VRS image enhancement.

Supporting documentation

The User's Guide for the *Kodak Sidekick 1400u* Scanner and VRS manuals are available on the Installation Resource CD. You will need Adobe Acrobat Reader to view the manuals.

Optional accessories

Imprinter Kit — front page (pre-scan) imprinter prints the user-specified alphanumeric string on the front side of documents *before* they are scanned. CAT No. 887 0958

White Sensor Roller Kit — if you are scanning translucent documents, the White Sensor Rollers will reduce black background bleed-through, which produces whiter images. CAT No. 842 2370

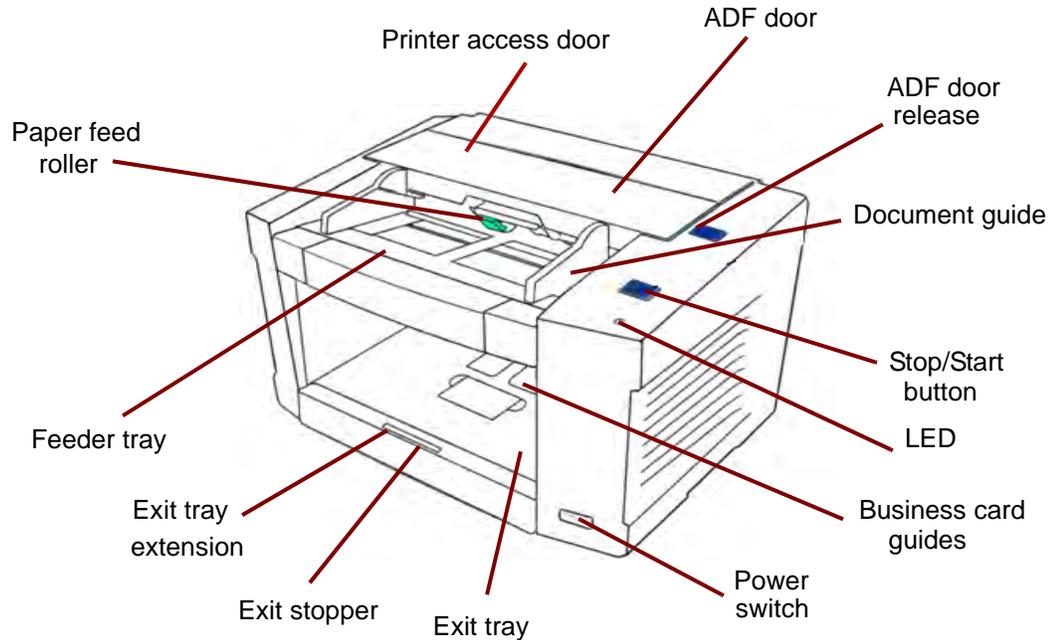
NOTE: VRS image enhancement cropping and deskew are not functional with the White Sensor Roller Kit.

What's in the box

- *Kodak SideKick* 1400u Scanner
- Power cord
- USB cable
- Shading Sheet
- Starter Cleaning Kit
- Sample Cleaning Kit
- Welcome Folio which includes:
 - Installation Resource CD which includes the following:
 - User Utility
 - ISIS/TWAIN Driver
 - VRS Software
 - *Kodak SideKick* User's Guide - languages
 - VRS User Manual and Release Notes
 - Warranty/Registration sheets
 - Reference Guide, English
 - Installation Guide
 - Service & Support Contact Information sheets
 - Miscellaneous flyers

Scanner components

Front view



Paper feed roller — feeds a single document at a time into the scanner.

Feeder tray — holds documents in place for automatic or manual scanning. The documents should be placed face-up to ensure they are scanned in the correct order.

Exit tray extension — pull this extension out to accommodate document sizes longer than 11 inches (279.4 mm).

Exit stopper — located on the exit tray, the exit stopper can be positioned to accommodate the length of the documents being fed through the scanner.

Exit tray — collects the documents after scanning. The scanned documents will be deposited face-down in the exit tray.

Power switch — press this button to turn the scanner on or off.

Business card guides — allows you to scan smaller documents, such as business cards. When scanning, lift up the business card guides and stopper.

LED — lights when the power to the scanner is on.

Stop/Start button — starts or stops scanning.

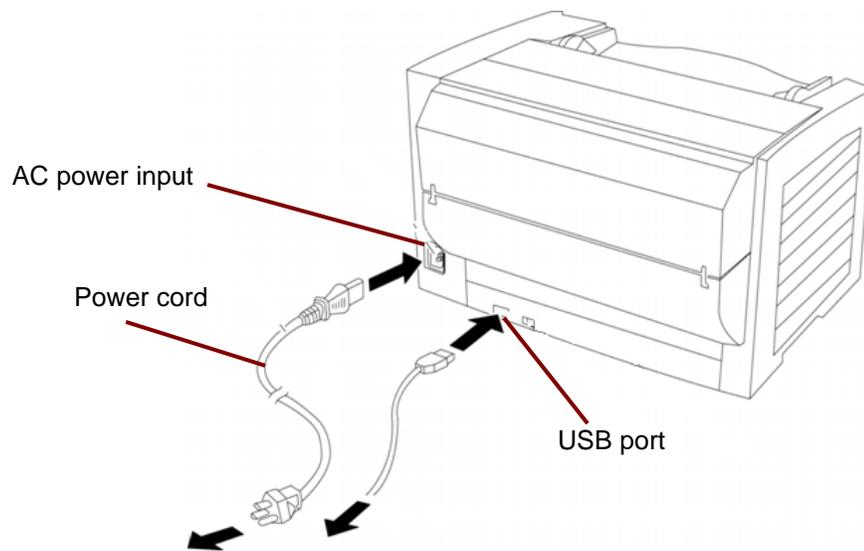
Document guides — slide the document guides in or out to accommodate the size of the documents you are scanning.

ADF door release — push this button to open the ADF door.

ADF door — provides access to the Automatic Document Feeder.

Printer access door — provides access to the optional imprinter for installation and maintenance

Rear view



AC power input/power cord — connects the power cord to the scanner.

USB port — connects the USB 2.0 cable to the scanner.

2 Installation

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Installation checklist

- After the scanner has been unpacked, it is recommended that you keep the original carton and all packing materials in case you need them later.
- Read the *Kodak SideKick 1400u* User's Guide located on the Installation Resource CD.

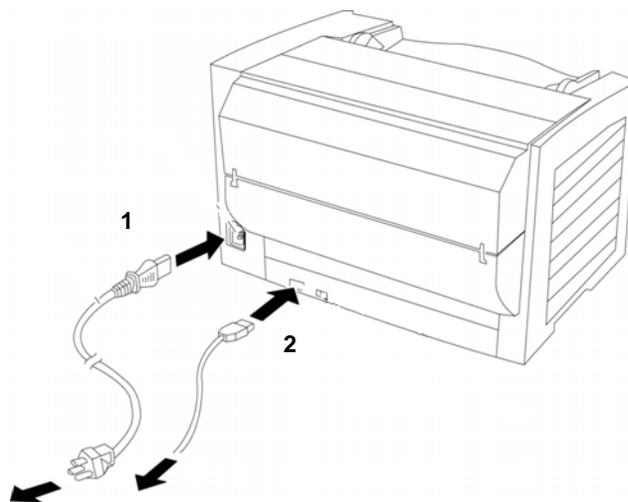
NOTE: If **Autoplay** is disabled, go to the Windows taskbar, select **Start>Run** and type **D:\SETUP.EXE**, where "D" is the CD-ROM drive. Click **OK**. Select your language and click **OK**. Then click **View Manuals**.

- Verify the system requirements. Refer to *Appendix A, Specifications*.
- Connect the scanner. See the next section entitled, "Making connections".
- Install the software. See the section entitled, "Installing the software" later in this chapter.

You are now ready to scan. Refer to the instructions for your scanning or document management software application.

Making connections

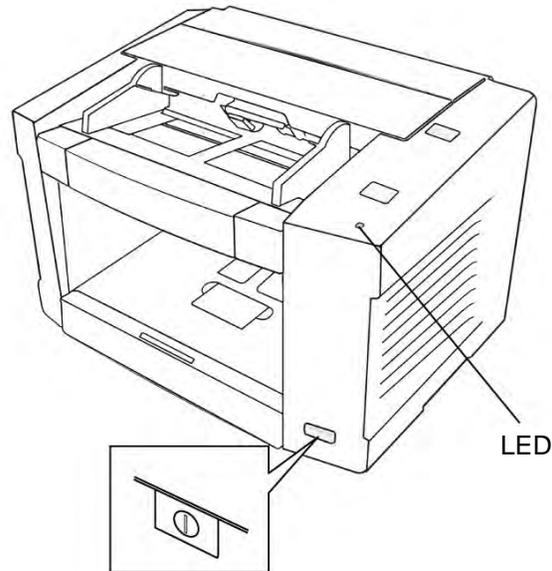
1. Plug the power cord into the AC power input on the back of the scanner and connect the other end to a power outlet.
2. Connect the USB cable to an available USB 2.0 port on the host PC and connect the other end to the USB port on the scanner.



NOTE: Do not connect the scanner to a USB hub.

Installing software

1. Turn on the host PC. You must log in as an *Administrator*.
2. Insert the *Sidekick* Resource Installation CD in the CD-ROM drive and follow the installation steps.
3. After the software installation, press the Power switch to turn the scanner on.



The LED will light and Windows will detect the scanner and launch the Found New Hardware dialog box.

4. Follow the Windows New Hardware detect wizard.
NOTE: A compatibility message may be displayed. Click **Continue Anyway**.
5. Insert the *Sidekick* Resource Installation CD into the host PC.
NOTE: The drive letter will vary depending on where your computer CD-ROM drive is located.
6. Click **OK**. If the files cannot be found, you will be prompted to browse to locate the file.
NOTE: If Windows does not automatically install the *Sidekick* device drivers then insert the Installation CD and **Browse** to the *MiniDriver* folder on the CD.
7. When the installation is completed, click **Finish**.
8. Restart the host PC.

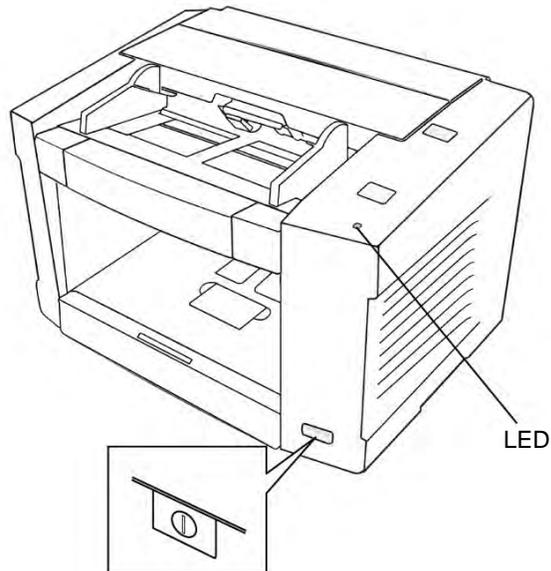
3 Scanning

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Turning the scanner on

1. Press the power switch.



2. After the LED on the scanner is a steady green, turn on your PC.

NOTE: See the section entitled, "Scanner LED status" in Chapter 6 for more information regarding the LEDs.

Document preparation and guidelines

For best results, follow these guidelines:

- **Remove all staples and paper clips.**
- When scanning a curled or folded document, flatten the document before feeding it.
- Scanning documents such as carbon or carbonless paper may cause skewing, paper jamming or multiple-sheet feeding because it makes the rollers dirty and chemicals can cause the rollers to swell.
- The height of the documents placed in the feeder tray must not exceed the paper limit mark that appears on the document guide.
- Sheets that are exceptionally thick or thin should be placed in the feeder manually, one sheet at a time.
- When you scan an irregular or fragile document, you should make a copy and then scan the copy.
- Remove the documents from the exit tray after they are scanned.

WARNING: Your warranty will be voided if you scan documents with staples, paper clips or thick plastic documents like credit cards. Feeding these items may cause scratches on the imaging guides resulting in permanent vertical streaks on the image.

Paper size: 2.0 x 2.8 in. (50.8 x 70 mm) to 8.5 x 25 in. (216 x 356 mm)

Paper thickness: Onionskin to card stock

Single paper feed: 2.0 to 5.9 mils (0.05 to 0.15 mm)

Continuous paper feed: 2.36 to 5.9 mils (0.06 to 0.15 mm)

Paper Weight:

Single paper feed: 10.7 to 33.9 lbs. (40 to 127 g/m²)

Continuous paper feed: 13.3 to 33.9 lbs. (50 to 127 g/m²)

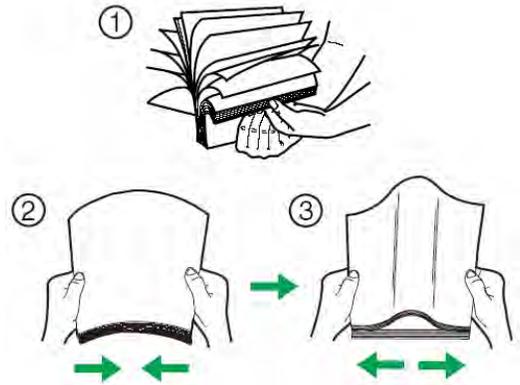
Scanning documents

For best results follow the document preparation recommendations as previously described.

1. Separate documents that have been stapled or clipped together. Remove glued documents and documents that are curled; these types of documents may cause a paper jam and damage the scanner.

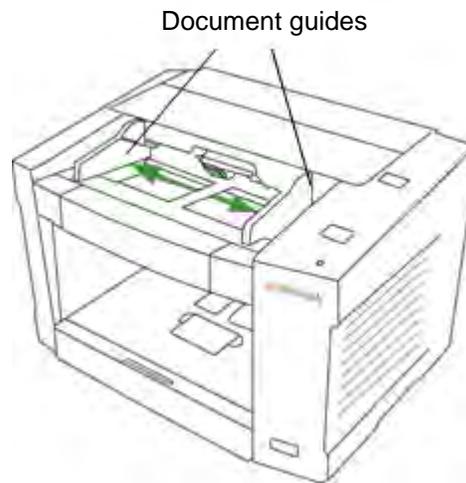
2. Prepare the document set as shown below:

- Fan the stack of documents to separate all the sheets. Be sure the edges of the sheets do not stick together.
- Hold both edges of the sheets and bend the documents.
- To flatten the documents, hold firmly then pull them apart.

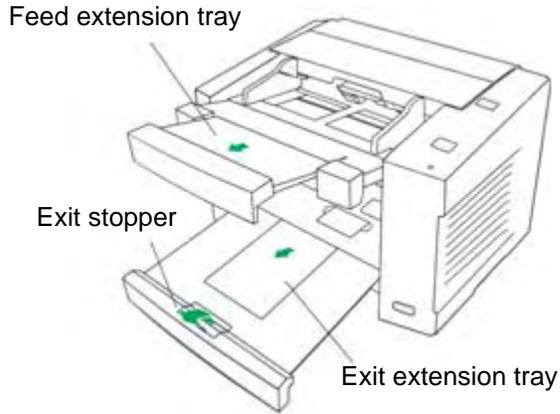


3. Carefully align the documents.

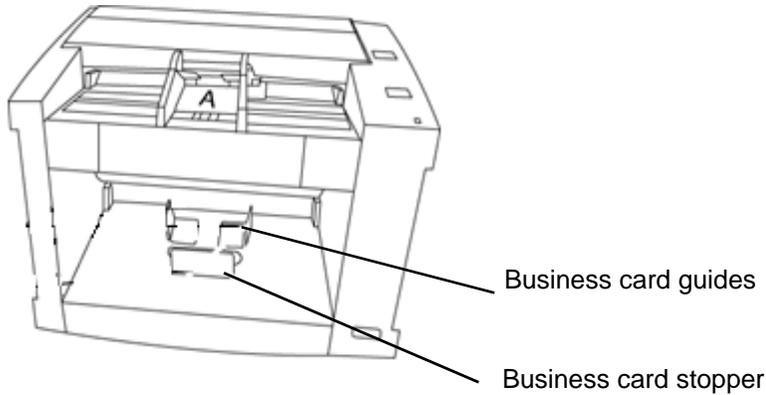
4. Adjust the document guides on the feeder tray so that they are slightly wider than the size of the documents you are scanning.



- When scanning documents that are longer than the feeder tray, you can pull out the feed extension tray, exit stopper and exit extension tray to accommodate the size of the documents you are scanning.

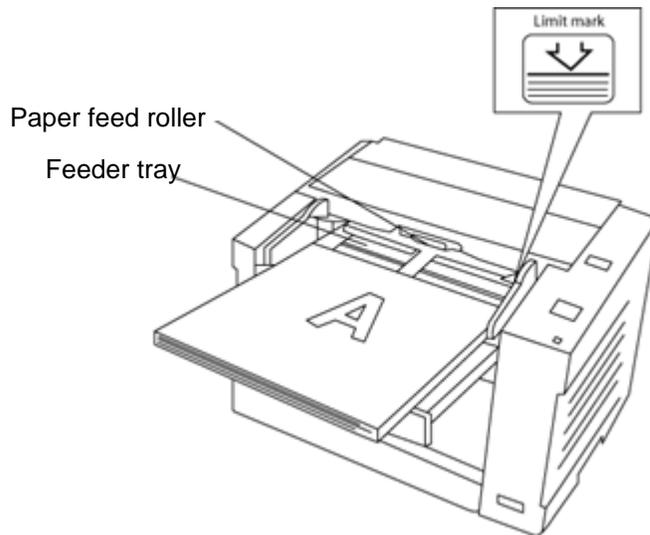


- When scanning small documents such as business cards, raise the business card guides and the business card stopper.

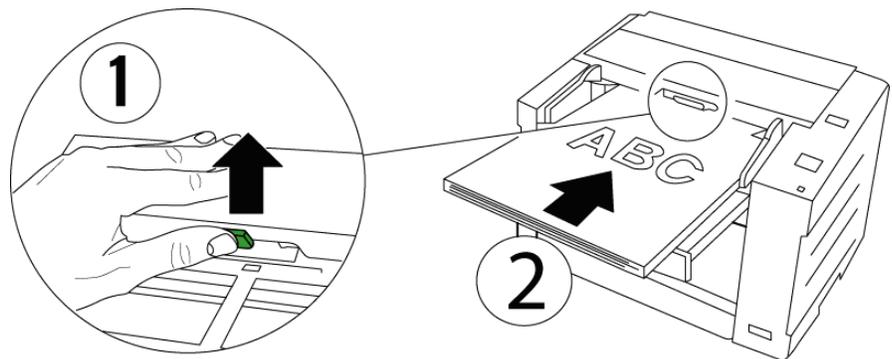


5. Place the documents on the feeder tray with the side to be scanned facing up.

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



6. Lift the paper feed roller and insert the documents in the direction of the arrow until they stop under the paper feed roller.



You are now ready to scan. Refer to the instructions for your scanning application or document management software for more information. Scanner settings are available through the Advanced Settings dialog box after the scanner has been selected.

Stop/Start button operation

The Stop/Start button has different functions depending on how it is set via the Advanced Settings dialog box. See the next section, “Making selections on the Advanced Settings dialog box” for more information.

Emergency Stop mode — if the scanner is running and feeding paper, press the blue Stop/Start button to immediately stop the paper in the scanner. This is the default mode of operation.

Start Feed mode — to use this mode, the *Manual Feed Mode* on the Advanced Settings dialog box must be set to **Start Button**. In this mode, you can manually control the Start and Stop of the batch using the Stop/Start button.

Multifeed Ignore — allows one document to go through the scanner without having the scanner stop for a multifeed condition. **Multifeed Ignore** can be used with envelopes, documents with a Post-It note attached, documents with photographs or any other document that is comprised of two overlapping items. When the scanner has been set up for Multifeed Ignore, it only works for the top document in the scanned batch. If you want to ignore multifeeds for several documents, modify the multifeed settings. See the next section, “Making selections on the Advanced Settings dialog box” for more information.

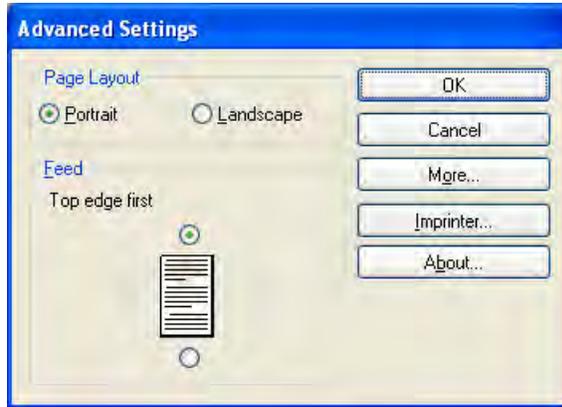
If a multifeed occurs:

1. Remove the document from the ADF (Automatic Document Feeder) by opening the scanner cover or pressing the Stop/Start button.
2. Press and hold the Stop/Start button for 2 seconds until the LED alternates between green and orange. When this occurs, the scanner is in **Multifeed Ignore** mode.
3. Place the document in which you want to ignore the multifeed on top of the document stack.
4. The scanner will automatically begin scanning again or you can re-initialize the scan within your scanning application.

To clear the Multifeed Ignore feature, open the scanner cover.

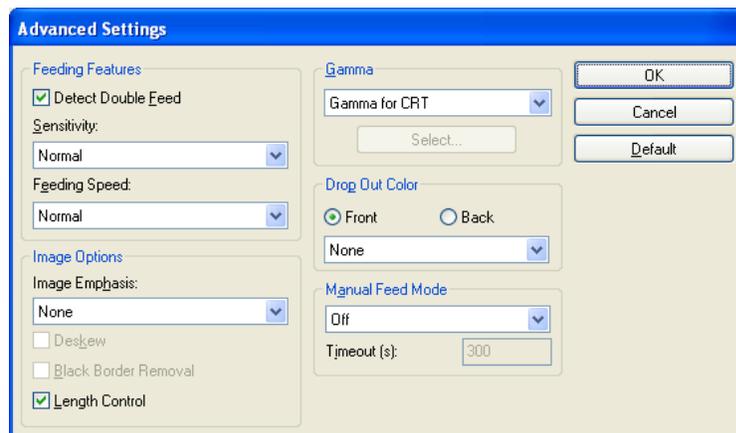
Making selections on the Advanced Settings dialog box

1. Open your scanning application and select **Settings**. The Advanced Settings dialog box will be displayed.



2. Select **Portrait** or **Landscape** depending on how you want to scan your batch.
3. If you have an optional imprinter, click **Imprinter** to make your imprinter selections. See the section entitled, "Setting up the print string" in *Appendix B, Installing and Using the Imprinter* for more information regarding imprinter setup.
4. Click the **More** button to display the Advanced Settings dialog box and make any of the following settings.

NOTE: If your scanning application supports the *Advanced Scanner Settings*, you can configure the scanner feed mode, color dropout, scanner speed and double feed detection using the Advanced Settings dialog box.



Detect Double Feed — select this checkbox to turn Double Feed Detect on. This function detects the feeding of more than one document going through the feeder at a time.

NOTE: This function can detect double feeds even when sheets are superimposed exactly on top of each other, but it may not be detected properly with some paper thicknesses and when creasing and other factors are present.

Sensitivity — if the Detect Double Feed function operates incorrectly, adjust the sensitivity level by selecting one of the following levels:

- **High:** select this when feeding thin documents.
- **Normal:** this is the standard sensitivity.
- **Low:** select this when feeding thick documents.

Feeding Speed — when scanning thin paper, badly creased paper, fragile paper, etc. you can change the speed of the scanner.

- **Slow:** this speed slows the documents that are fed through the ADF to about one-half the speed of **Normal** mode. The image quality in the Slow mode is the same as in the Normal mode.
- **Normal:** this is the normal speed of the scanner and is used for most document scanning.

NOTE: At resolutions above 300 dpi, the paper is fed at the same speed as in the Normal mode even if **Slow** has been specified.

Image Options

- **Image Emphasis:** allows you to select the amount of sharpness of an image.
 - **None:** no image sharpness will be performed.
 - **Smooth:** blurs or softens the image slightly.
 - **Low:** performs the lowest amount of sharpness.
 - **Medium:** performs medium sharpness.
 - **High:** performs the highest amount of sharpness.

Deskew — allows the scanner to automatically straighten documents that are fed into the scanner crooked. *When using VRS, this option is not available.*

Black Border Removal — check this option to turn **Black Border Removal** on which will produce an image that contains just the document by eliminating any residual border. Residual border can be caused by variations in a document edge; for example, when a document is not a perfect rectangle and/or was fed crooked. *When using VRS, this option is not available.*

Length Control — limits the length of the image to the actual page length.

Gamma — this is a shading adjustment.

- **Normal:** uses a predefined curve that works best under most conditions in all color modes.
- **Gamma CRT:** select if you intend to view the images on a display.
- **User Download:** allows you to download your own curve formula.

Drop Out — allows you to remove colored (red, green or blue) text or lines printed on documents. Color dropout can only be used with binary images in black and white or binary modes and can be set independently for the front and back of a document. This functionality is primarily used in OCR (Optical Character Reading) to dropout form lines.

1. Select either **Front** or **Back** depending on which side of the document you want to use the color dropout option.
2. Select the color you want to dropout: **Red**, **Green** or **Blue** from the *Drop Out* list.

Manual Feed Mode — select one of the following options:

- **Off** — if you select this option, you will need to load the documents in the scanner and click **Start Batch** (or a button with similar name) in the scanning application to start scanning.
- **On** — select **On** when manually feeding documents. This should be selected when feeding mixed document types that are difficult to separate and may cause multifeeds. In this mode the feeder rollers are not engaged until the document's leading edge approaches the feeder roller.
- **Start Button** — if selected, the scanner will not start feeding until the Stop/Start button is pressed.

Timeout(s) — the timeout indication is active in all Manual Feed Mode options except for **Off**. This feature sets the time between the end of the scanned batch and the “out of paper” indication. Values range from 1 to 300 seconds. The default is 30 seconds.

4 Maintenance

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Cleaning procedures

The following cleaning guidelines and procedures will help ensure best scanner performance.

NOTE: Use only the recommended cleaning supplies when cleaning the scanner.

- If paper jamming, marking or multiple-sheet feeding occurs frequently, clean the rollers, sensors and imaging guides as described in this section. If paper jamming, marking or double feeding occurs frequently even after cleaning, you may need to change the rollers.
- To maintain scanning quality, clean the scanner at least once a week or after 20,000 sheets have been scanned, whichever comes first. To determine the number of sheets scanned, use the User Utility. See *Chapter 5, User Utility* for more information.
- Be sure the documents you scan are clean. If the documents you scan are dirty, the scanner components will also become dirty.
- It is recommended that you clean all of the rollers at the same time.

Roller cleaning pads

Review the following information before using the roller cleaning pads.

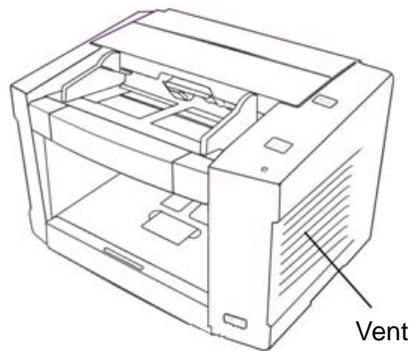
- If you need more information about the roller cleaning pads, refer to the Material Safety Data Sheet (MSDS). See the Kodak website at: www.kodak.com/go/msds.
- Additional roller cleaning pads can be purchased. See “Supplies and consumables” later in this chapter for ordering information.

NOTE: Use the roller cleaning pads immediately after opening the bag.

Cleaning the outside of the scanner

Clean the outside of the scanner at least once a month.

1. Turn the scanner off.
2. Clean the exit tray, the feeder and feeder tray, cover and other surfaces with a soft cloth.
3. Use a brush to remove dirt and dust from the side vent.



Cleaning inside the scanner

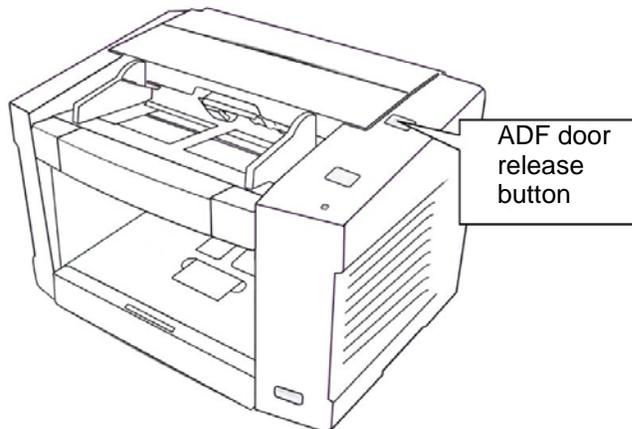
Clean inside the scanner at least once a week or after 20,000 sheets have been scanned, whichever comes first.

NOTE: To determine the number of sheets scanned, use the  User Utility. See the *Chapter 5, User Utility* for more information.

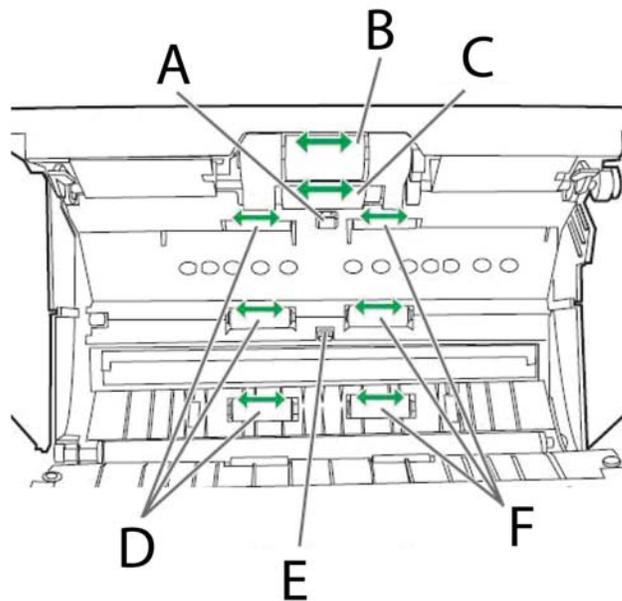
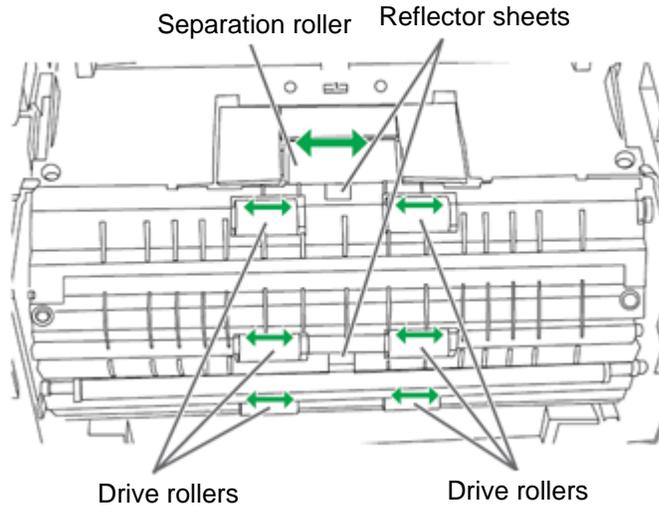
- Be sure the documents you are scanning are clean to minimize frequent scanner dirt and dust build-up.
- When cleaning the rollers, hold the roller to prevent it from rotating, then horizontally wipe the roller from side to side. Turn the roller as you continue to wipe until the entire roller has been cleaned.
- If black or white lines appear on the scanned images, clean the imaging guides as described in the next section.
- If paper jamming, marking, or multi-sheet feeding occurs frequently even after cleaning, you may need to change the rollers as described in the section entitled, “Replacing consumables” later in this chapter.

Cleaning the rollers, sensors and imaging guides

1. Turn the scanner off.
2. Push the ADF door release button.



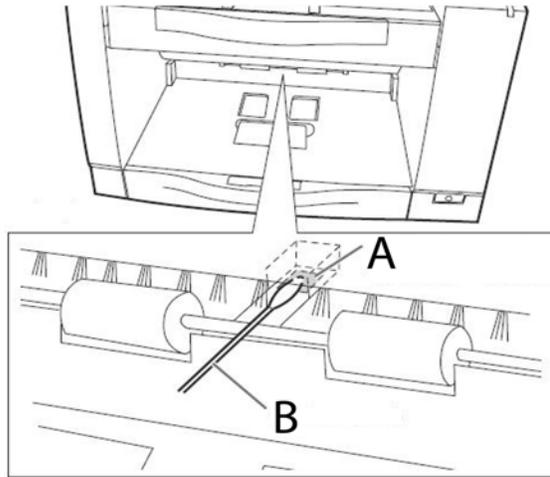
- Use a roller cleaning pad to remove any dirt from the surfaces of all of the rollers and reflector sheets.



- A Waiting Sensor
- B Paper Feed Roller
- C Separation Roller
- D Free Rollers
- E Starting Position Sensor
- F Free Rollers

4. Clean the reflector sheet for the ending sensor.

- Remove dust on the reflector sheet of the ending sensor with a cotton swab. The reflector sheet is located behind the shaft.

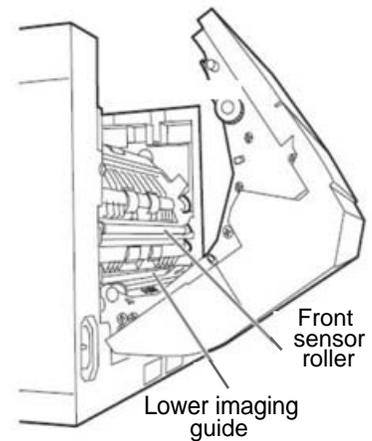
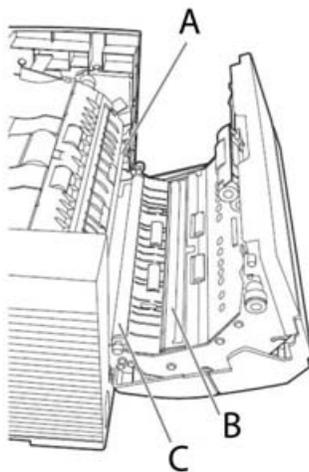


- A Reflector sheet for ending sensor
B Cotton swab

5. Verify that the sensor rollers are installed properly.

6. Clean the upper and lower imaging guide and the sensor rollers with a roller cleaning pad.

NOTE: If the sensor rollers are removed while cleaning, reinstall them after cleaning.



- A Front sensor roller
B Upper imaging guide
C Rear sensor roller

7. Gently close the ADF door and turn on the scanner.

8. After cleaning the rollers, open the User Utility and click **Clear Counter** to clear the roller counter. For more information, see the section entitled, "Scanner counter" in *Chapter 5, User Utility*.

Replacing Consumables

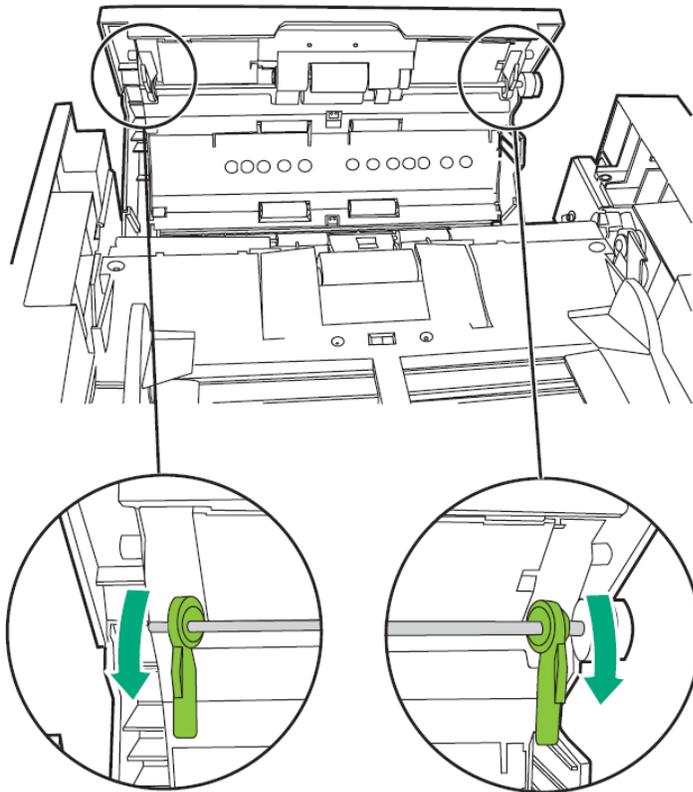
Replace the paper feed roller module and the separation roller module after 300,000 scans. Replace the roller modules more often if feeding problems continue after cleaning (i.e., paper jamming, slipping, multi-feeding, marking, etc.).

See “Supplies and consumables” later in this chapter for more information regarding additional roller modules.

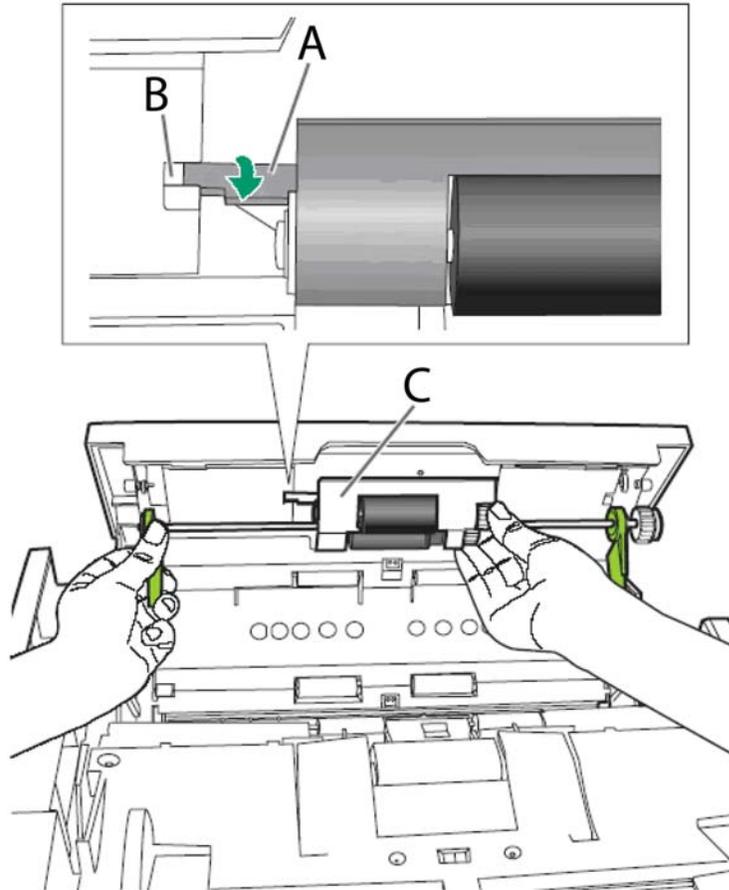
Replacing the paper feed roller module

1. Turn the scanner off.
2. Push the ADF door release button to open the ADF door.
3. Open the new Roller Exchange Kit.
4. Push the two green levers down at both ends of the paper feed roller module to unlock and remove the paper feed rollers.

NOTE: When moving the green levers, do not apply pressure in any direction other than shown by the arrows.

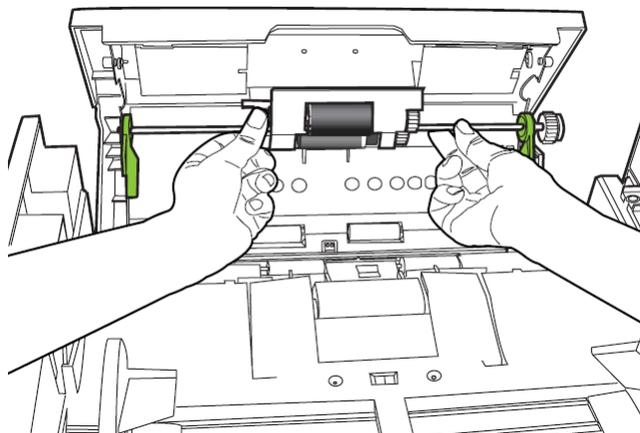


5. Remove the paper feed roller module by holding up the paper feed case along the groove of the feed cover to pull the pin out of the slot.

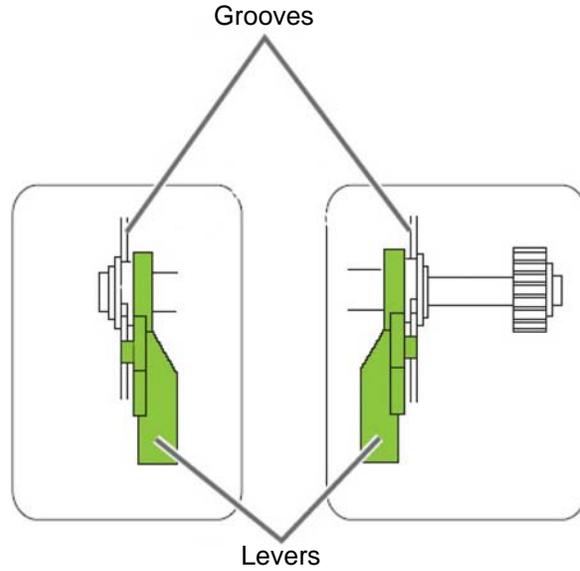


- A Pin
- B Slot
- C Paper feed case

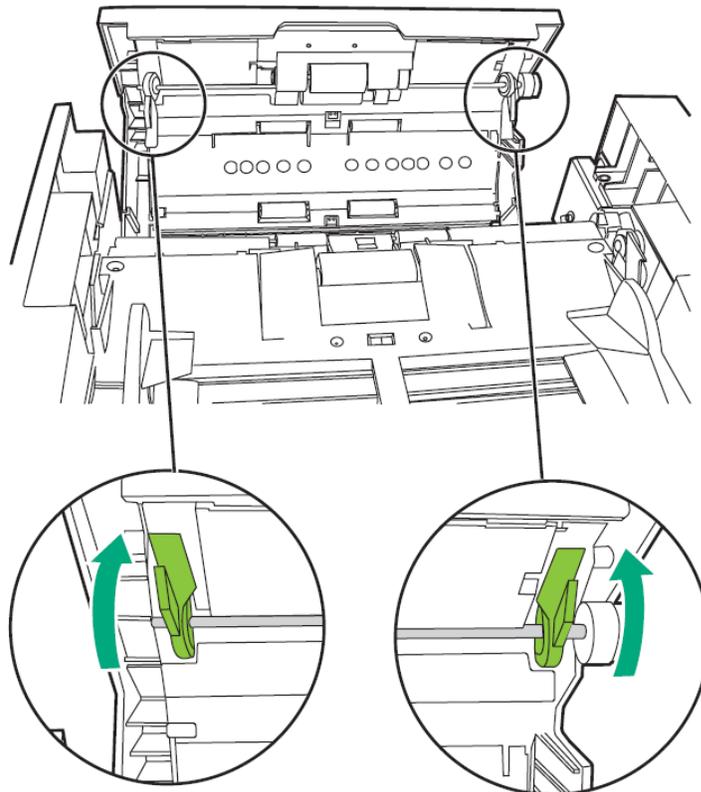
6. Install the new paper feed roller module with its gear on the right side.
7. Slightly lift the paper feed roller module and pass the pin along the groove of the feed cover.



8. Install the new paper feed roller into the grooves at each end. The white gear should be to the right.



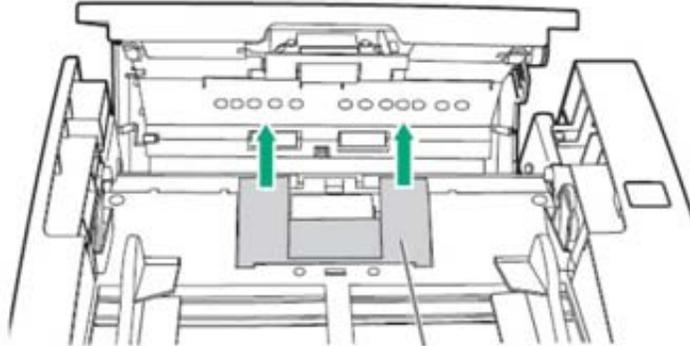
9. While holding the paper feed roller in place, rotate the green levers up at both ends until they click into place.



10. Gently close the ADF door and turn on the scanner.

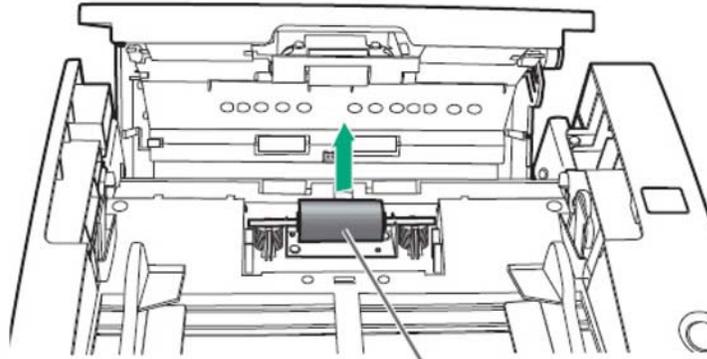
Replacing the separation roller module

1. Turn the scanner off.
2. Push the ADF door release button to open the ADF door.
3. Remove the separation roller cover by putting your finger tips underneath the tabs and lifting out of place.



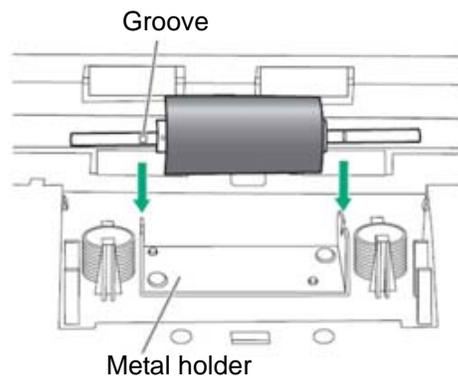
Separation roller cover

4. Remove the separation roller module.

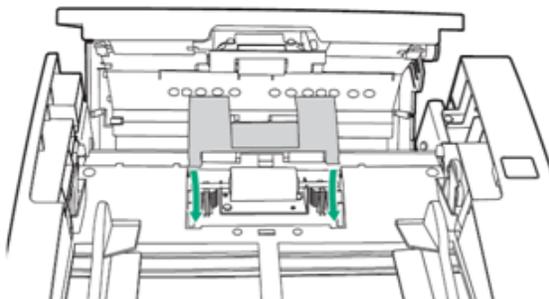


Separation roller module

5. Install the new separation roller module by matching the groove of the shaft with the metal holder groove.



6. Reinstall the separation roller cover and snap it into place.

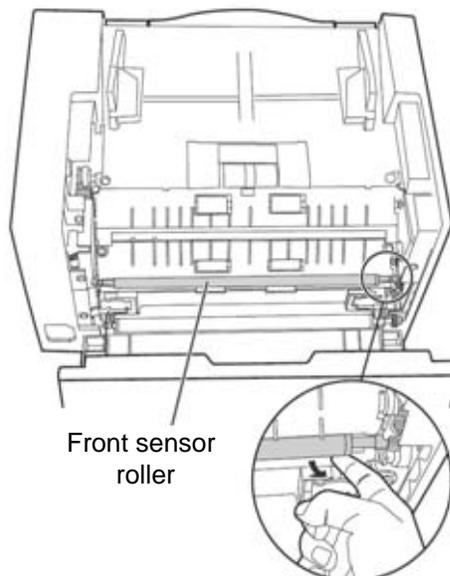


7. Gently close the ADF door and turn on the scanner.

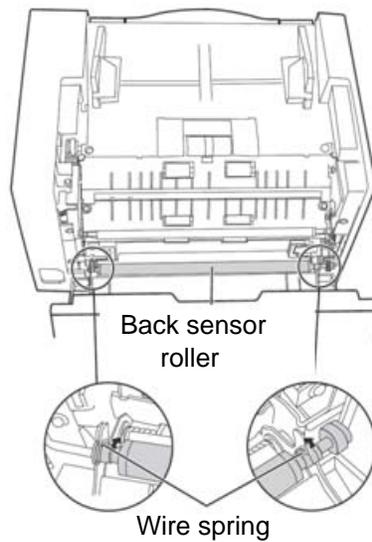
Replacing the front and back sensor rollers

There are two sensor rollers, a front sensor roller (the longer roller) and the back sensor roller (the shorter roller). Both rollers should be replaced at the same time.

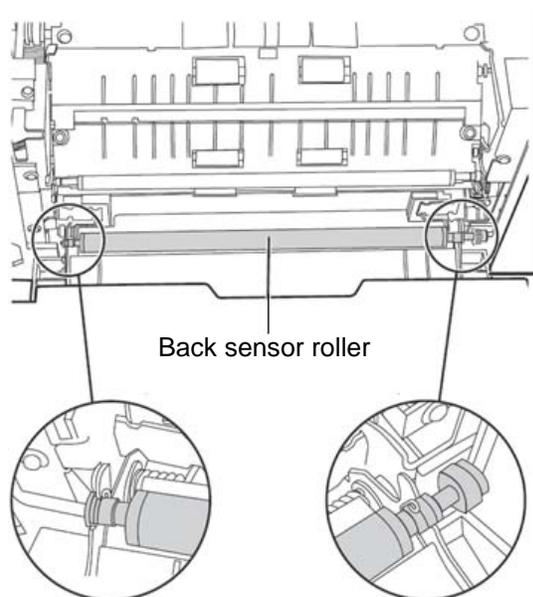
1. Turn the scanner off.
2. Push the ADF door release button to open the ADF door.
3. **Front sensor roller:** Remove the front sensor roller by grasping both ends of the roller and lifting the roller out of the holder.
4. Take the new front sensor roller (the longer roller) and place it in the right slot first, then the left slot. The white gear should be to the left.



5. **Back sensor roller:** Push back the wire springs that hold the back sensor roller in place and lift the roller up and out of the holder.



6. Take the new back sensor roller (shorter roller), gently lift the right spring and insert the back sensor roller in place; then lift the left spring and insert the other side of the roller in place. The white gear should be on the right.
7. Verify that the back roller sensor is securely in place.



8. Gently close the ADF door and turn on the scanner.

Resetting counters



After replacing the paper feed module, separation roller module and/or front and back sensor rollers, click the User Utility icon to open the User Utility.

- Select the User Utility option and click **Clear Counter** to clear the roller counter. For more information, see the section entitled, “Scanner counter” in *Chapter 5, User Utility*.

Supplies and consumables

Contact your scanner supplier to order supplies or go to:
www.scannerstore.kodak.com.

Description	CAT No.
<i>Kodak Digital Science</i> Roller Cleaning Pads	853 5981
Roller Exchange Kit (includes: 1 Feeder Roller, 1 Front Sensor Roller, 1 Rear Sensor Roller)	846 0321
Shading Paper	153 5376
Replacement Packaging	145 2812
Accessories	CAT No.
Imprinter Kit	877 0958
Printer Cartridge	155 8667
White Roller Sensor Kit	842 2370

NOTE: Items and catalog numbers are subject to change. For the most up to date list of supplies and consumables go to:
www.kodak.com/go/scannersupplies.

5 User Utility

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The User Utility is a software program used to maintain and troubleshoot the *Kodak Sidekick 1400u* Scanner. The User Utility is installed as part of the scanner’s software installation.

If the User Utility icon is not on your desktop, see the section entitled, “Installing the software” in Chapter 2.

Starting the User Utility

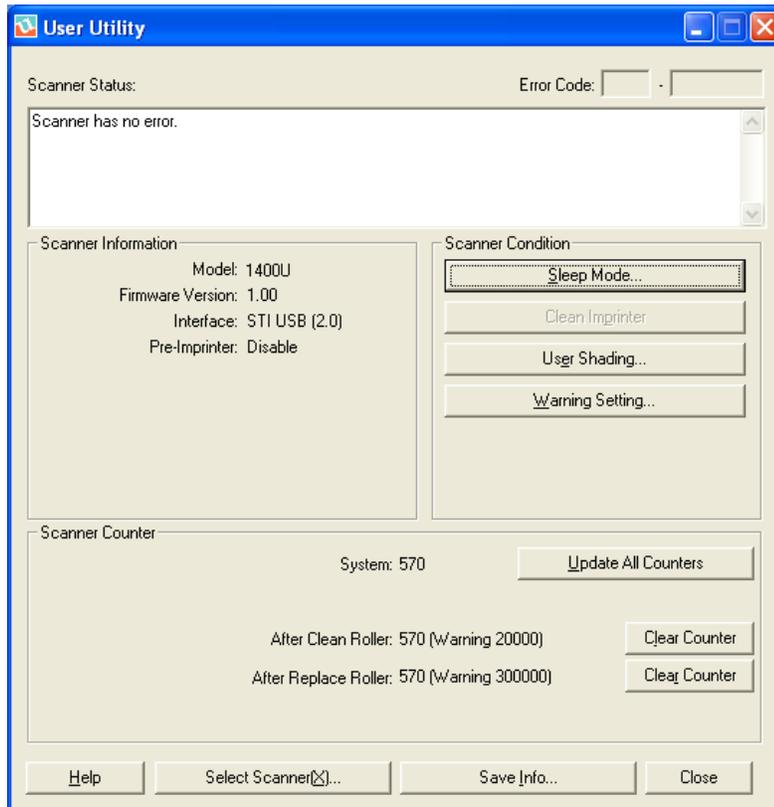


- Click the User Utility icon or click the **Start>Programs>Kodak>Scanner Tools**.

NOTE: When starting the User Utility, the Select Scanner dialog box may be displayed. If this dialog box is displayed, select the desired scanner from the drop-down list.

The User Utility dialog box

This dialog box displays the Scanner Status, Scanner Information, Scanner Condition and the User Utility functions and settings options.



Scanner Status

Scanner Status displays the status of the scanner along with error codes. For information about the messages and error codes, see the section entitled, “User Utility error codes” in Chapter 6.

Scanner Information

Scanner information provides information about the scanner: Model, Firmware Version, Interface and the status of the imprinter.

Scanner Condition

The Scanner Condition section provides the following options:

- **Sleep Mode** — the scanner is configured with the power saver feature enabled with a 15-minute wait time. This conserves energy and reduces operating costs. Sleep Mode will go into effect after 15 minutes after the last scanner operation. If you want to change these values, click **Sleep Mode** and make your selection.

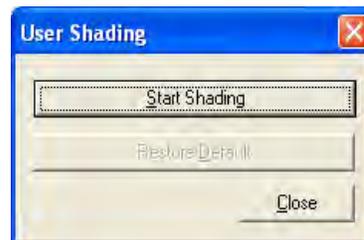


The wait time can be set from 1 to 60 minutes in 1-minute increments.

- **Clean Imprinter:** if you have the imprinter installed, this option is available. If the imprinter ink cartridge is clogged, verify that the imprinter door is closed and click the **Clean Imprinter** button to clean the cartridge. An automatic cleaning will be performed to improve the print quality.
- **User Shading** — provides adjustments to improve image quality. Shading adjustment should be performed when the density of the scanned images is uneven and the image displays perpendicular lines, when colors in some parts of the scanned image are extremely different from what is expected, or when the image quality fails to be improved after cleaning the scanner.

Before performing a shading adjustment, thoroughly clean the drive rollers and imaging guides. Only use shading paper that is supplied with the scanner and is in good condition.

1. Click **User Shading** on the User Utility.



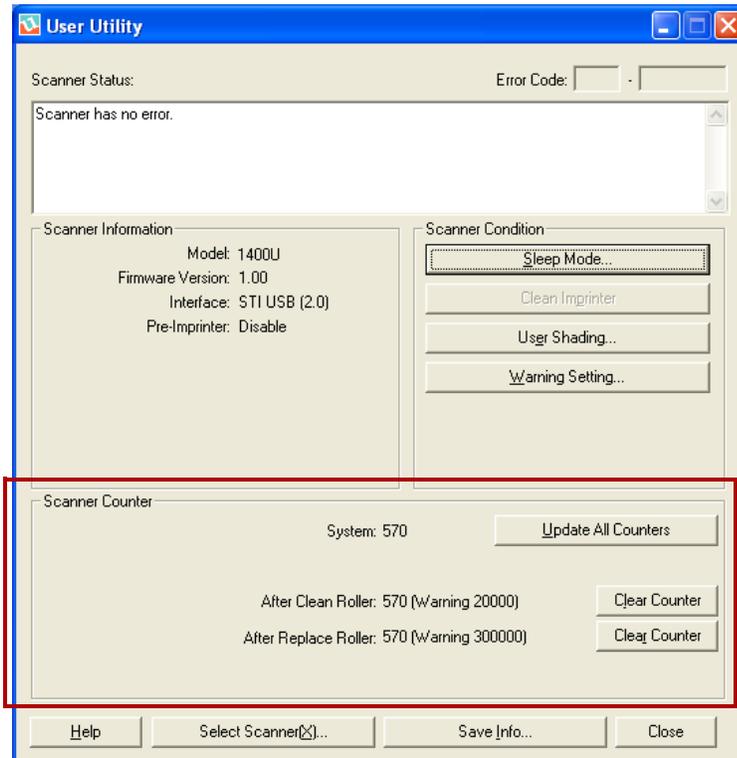
2. Click **Start Shading**. The User Shading utility will guide you through the necessary steps.
3. Clean the transport, rollers and imaging guides. See the section entitled, “Cleaning inside the scanner” in Chapter 4. When finished, click **OK**.
4. Place the shading paper in the feeder tray in the Landscape position, then click **OK**. Wait until the message **Now Adjusting** is cleared from the screen.
5. When the message **Finish Adjusting** is displayed, click **OK**.

NOTE: If the scanned images are still lined after the shading adjustment and these lines are not eliminated even after the imaging guides have been cleaned, the shading has not been compensated properly. Clean the parts again and perform the shading adjustment procedure again.

- **Restoring shading to the default:** you can restore shading adjustment data to the default setting by clicking **Restore Default** on the User Shading dialog box. Restore the default if the image quality deteriorates or has not improved as a result of the shading adjustment process.

Scanner Counter

The scanner counter can be used to keep track of the number of documents scanned. The counters also provide a reminder for roller cleaning and parts replacement.



- **System** — displays the number of pages scanned after the last counter update.

- **After Clean Roller** — displays the number of pages scanned after the rollers were last cleaned. When the *After Clean Roller* number is greater than the *Warning* number, the rollers need to be cleaned. (The *Warning* number indicates how many pages can be scanned after roller cleaning before the rollers need to be cleaned again.)
- **After Replace Roller** — displays the number of pages scanned after the rollers were last replaced. When the *After Replace Roller* number is greater than the *Warning* number, the rollers need to be replaced. (The *Warning* number indicates how many pages can be scanned with a new set of rollers before the rollers need to be replaced.)
- **Update All Counters** — updates the counter display to the latest numbers. Document scanning operations do not automatically update the counter displays.
- **Clear Counter** buttons — there are two Clear Counter buttons, one to clear the *After Clean Roller* display and one to clear the *After Replace Roller* display.
 - After you clean the rollers, click **Clear Counter** for *After Clean Roller* and reset the number to zero.
 - After you replace the rollers, click **Clear Counter** for *After Replace Roller* and reset the counter to zero.

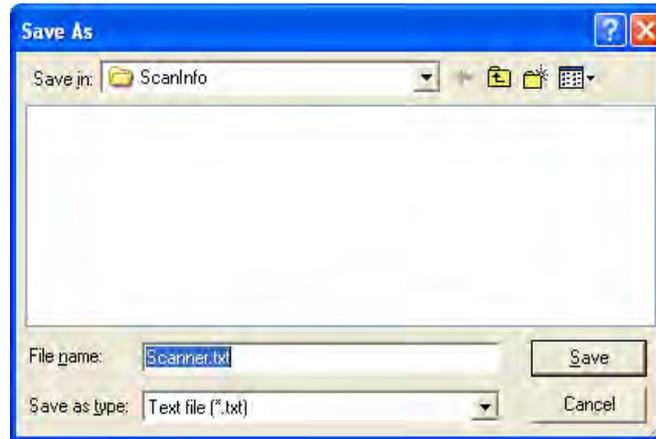
Help — opens the *Kodak Sidekick 1400u Scanner User's Guide* in PDF file format. The manual contains information about scanner operations, cleaning and maintenance and information about the User Utility messages and error codes.

Select Scanner(X) — opens the Select Scanner dialog box. If more than one scanner is connected to the computer, you can use the Select Scanner dialog box to select a different scanner. The User Utility functions and settings will then apply to the selected scanner. To select a different scanner:

1. Click **Select Scanner(X)**.
2. Click the drop-down list and select a different scanner, then click **OK**.

Save Info — allows you to save current scanner and computer system information to a log file.

1. Click **Save info**.
2. In the *Save in* drop-down list, browse to find a location to save the log file.
3. In the *File name* box, type a file name for the log file (the default file name is Scanner.log).
4. Click **Save**.



Close — closes the User Utility.

Check Version Information — right-click the title bar at the top of the display window and click **About** to view the version information.

User Utility operation setup

1. Select **Start>Programs>Kodak>Scanner Tools>Operation Setup**. The User Utility Operation Setup window is displayed.
2. Check **Load “User Utility” to task tray** to have the User Utility icon loaded to the task tray.
3. Select any desired **Load on start up** alerts:
 - **Error Notification:** when checked, the User Utility error message will notify you of errors that have occurred.
 - **Error Pop-Up:** when checked, the User Utility will pop up to notify you of errors that have occurred.
 - **Audible Error Alert:** when checked, there will be an audible error alert notifying you of errors that have occurred.
4. If you want to change the sound when an error is detected, click **Reference** and select the desired sound file.
5. If you want to change the folder where the error log file is saved, click **Reference** to select the desired folder.

6 Troubleshooting

Contents

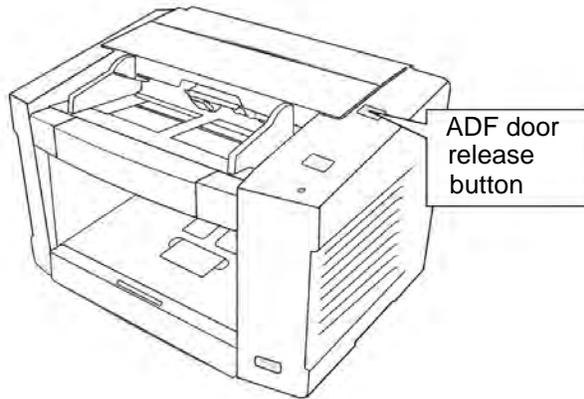
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Clearing a document jam

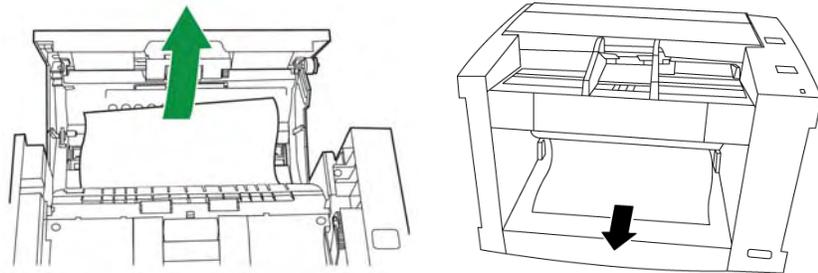
To minimize document jams, review the “Document preparation and guidelines” in Chapter 3 for best feeder performance.

IMPORTANT: Only remove jammed documents from the ADF when the ADF door is open. Removing documents when the door is closed may damage the document.

1. Press the ADF door release button to open the ADF door.



2. Remove the jammed document(s)..



3. Gently close the ADF door and resume scanning.

Problem solving

Occasionally you may encounter a situation with your scanner where it may not function properly. Use the chart below as a guide to check possible solutions to help resolve the situation before calling Technical Support.

If a problem persists after you have checked the User Utility status messages and error codes as described in the “User Utility error codes” section later in this chapter, review the problems and possible solutions below. If the scanner still is not working, turn the scanner off, unplug the power cord and call Technical Support.

Problem	Possible Solution
The LED does not light when the power button is turned on.	<ul style="list-style-type: none"> • Be sure that the power cord is securely plugged into the power outlet and into the scanner. • There could be a problem with the power supply. Disconnect the scanner from the power outlet and call Technical Support.
The computer does not recognize the scanner.	<ul style="list-style-type: none"> • Be sure the scanner is properly connected to the computer. See “Making connections” in Chapter 2. • Scanner is not properly configured via <i>Found New Hardware</i>. Uninstall the scanner from the PC. Register the scanner hardware again.
USB connection.	<ul style="list-style-type: none"> • Check the computer to determine that the USB interface is installed properly. Check the USB properties using the Windows Device Manager. • Verify that the scanner is not connected to a USB hub. • Be sure the USB cable does not have a High Speed log. Only use the cable that was provided with the scanner.
Scan speed is running too slow with USB connection	Verify that the scanner is connected with a USB 2.0 interface.
The ADF door does not open when the ADF door release button is pressed.	The ADF door is not closed properly. Push the ADF door release button and lift up the ADF door, then close the ADF door securely until it is latched. DO NOT slam the ADF door.
(ADF) The document has been loaded on the feeder tray, but the scanner does not start scanning.	<ul style="list-style-type: none"> • The document is not loaded properly. See the section entitled, “Scanning documents” in Chapter 3. • The sensor cannot detect the document because the edge of the document is curled. Flatten the document and load it again. See the section entitled, “Document preparation and guidelines” in Chapter 3.
(ADF) Double feeding or skewing problems occur frequently or the scanner stops feeding while scanning.	<ul style="list-style-type: none"> • The rollers may be dirty or have reached their life expectancy. Clean the rollers and examine them for wear. See <i>Chapter 4, Maintenance</i> for cleaning and replacement procedures. • The document is curled or folded. Flatten the document, reduce the number of sheets in the feeder tray and load the document again.
(ADF) Scanned image is skewed.	<ul style="list-style-type: none"> • Be sure the document guides are adjusted to the size of the documents being scanned. • Verify that the document to be scanned is straight in the feeder tray. • The right and left sides of the document to be scanned are not the same height because of curls and folds. Remove the curls or folds, reduce the number of sheets in the feeder tray and load the document again.
(ADF) The scanned document is blank.	Verify that the document to be scanned is positioned correctly in the feeder tray. Documents should be placed in the feeder tray with the side you want to scan face-up .

Problem	Possible Solution
Vertical lines appear on the scanned document.	Clean the imaging guides. See <i>Chapter 4, Maintenance</i> for cleaning procedures.
The scanning density is uneven.	<ul style="list-style-type: none"> • Clean the imaging guides. See <i>Chapter 4, Maintenance</i> for cleaning procedures. • Perform a shading adjustment. See <i>Chapter 5, User Utility</i> for more information.
The color of the scanned document is very different from the original document.	Adjust the computer display and monitor settings.
Dark spots or noise appear on the scanned documents.	Clean the imaging guides. See <i>Chapter 4, Maintenance</i> for cleaning procedures.
Scanned image has moire fringes or patterns, such as stripes or wavy pattern noise.	This is caused by the original printing pattern on the document and the selected scanning resolution. Change the scanning resolution, then scan the document(s) again.

User Utility error codes

If an issue occurs during scanning, click the  icon to open the User Utility. Check the *Scanner Status* message and *Error Code* information. The following table explains the error codes and messages and describes possible causes/solutions.

Error code and message	Possible Cause/Solution
U11, U12, U13, U16 Jam occurred. Please open the door and remove the paper. Place the documents back in the document feed tray.	A document is jammed or the document sensors are dirty. <ul style="list-style-type: none"> • Open the ADF and remove the jammed paper. See “Clearing a document jam” earlier in this chapter. • Clean the sensors. See <i>Chapter 4, Maintenance</i> for cleaning procedures.
U18 Document remains in the scanner. Please open the door and remove the paper. Place the documents back in the document feed tray.	A document is jammed or the sensors are dirty. <ul style="list-style-type: none"> • Open the ADF and remove the jammed paper. See “Clearing a document jam” earlier in this chapter. • Clean the sensors. See <i>Chapter 4, Maintenance</i> for cleaning procedures.
U23 Double feed occurred. Please open the door and remove the paper. Place the documents back in the document feed tray.	A double feed has occurred or the rollers are dirty. <ul style="list-style-type: none"> • Open the ADF and remove the jammed paper. See “Clearing a document jam” earlier in this chapter. • Clean the rollers. See <i>Chapter 4, Maintenance</i> for cleaning procedures.
U30 Scanner door is open. Please close the door.	<ul style="list-style-type: none"> • Securely close the ADF door.
Fxx System error occurred. Please contact Technical Support.	<ul style="list-style-type: none"> • Contact Technical Support.
Warning The rollers need to be cleaned. Please clean the rollers.	Warning counter has expired. The rollers need to be cleaned. <ul style="list-style-type: none"> • Clean the rollers. See <i>Chapter 4, Maintenance</i> for cleaning procedures. After cleaning the rollers, return to the User Utility and click the Clear Counter button. See the section entitled, “The User Utility dialog box” (Scanner Counter) in Chapter 5.
Warning The rollers need to be replaced. Please replace the rollers.	Warning counter has expired. The rollers need to be replaced. <ul style="list-style-type: none"> • Replace the rollers. See <i>Chapter 4, Maintenance</i> for replacement procedures. After replacing the rollers, return to the User Utility and click the Clear Counter button. See the section entitled, “The User Utility dialog box” (Scanner Counter) in Chapter 5.
Scanner is not connected	<ul style="list-style-type: none"> • The scanner is not connected or not turned on. Be sure the scanner is connected properly and that the scanner is turned on. See <i>Chapter 2, Installation</i> for proper connections. • The PC was turned on before the scanner was ready. Turn the scanner on first and then restart the PC.

Scanner LED status

The color of the LED indicates the scanner status.

LED	Status
Steady green	Ready to scan or scanning is in process.
Flashing green	Sleep mode.
Steady orange	Ready to scan or scanning with a warning. The rollers need to be cleaned or replaced.
Flashing orange	Initializing or sleep mode with warning. Check the status of the scanner using the User Utility.
Red	An error occurred.

Contacting Service

1. Visit www.Kodak.com/go/dicontacts to obtain the most current phone number for your country.
2. When calling, please have the following information ready:
 - A description of your problem.
 - The scanner model and serial number.
 - Computer configuration.
 - Software application you are using.

For updated drivers, see www.kodak.com/go/scanners.

Appendix A Specifications

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Feature	Specification
Scanning mode	Duplex
Scanning method	CIS (Contact-type color image sensor) Front and Back sides Background: Black sensor roller
Scanning speed	Black and White, 200 dpi: Simplex: 43 ppm; Duplex: 76 ipm Lettersize, Color, 150 dpi: Simplex: 19 ppm; Duplex: 34 ipm
Multifeed detection	Ultrasonic
Resolution	Black and White/Grayscale: 100 to 600 dpi Color (with VRS): 100 to 400 dpi Optical: 600 dpi
Output options	Black and White, Grayscale (8-bit) and Color (24-bit)
Image enhancement	VRS cropping, deskew, auto brightness, contrast control
Document size	Onionskin paper to card stock: 2.0 x 2.8 in. (50.8 x 70 mm) to 8.5 x 25 in. (216 x 356 mm)
Paper thickness	Single paper feeding: 2.0 to 5.9 mils (0.05 to 0.15 mm) Continuous paper feeding: 2.36 to 5.9 mils (0.06 to 0.15 mm)
Paper weight	Single paper feeding: 10.7 to 33.9 lbs. (40 g/m ² to 127 g/m ²) Continuous paper feeding: 13.3 to 33.9 lbs. (50 to 127 g/m ²)
Feeder capacity	120 sheets (17-lb./64 g/m ²) paper 100 sheets (20-lb./75 g/m ²) paper
Scanner dimensions	14 x 12.5 x 9.25 in. (35.5 x 32 x 24.1 cm) With tray extended: 14 x 19.75 x 10.6 in. (35.5 x 50 x 27 cm)
Scanner weight	20.1 lbs. (9.1 kg)
Interface	USB 2.0 (cable included)
Power requirements	AC 100-120 V, 50/60 Hz (US model) AC 220-240 V, 50-60 Hz (EU model)
Power consumption Maximum (scanning)	1A 50W (100-120V) 0.5A 50W (200-240V)
Minimum (standby)	0.3A 17W (100-120V) 0.2A 19W (200-240V)
Sleep mode	0.1A 3.5W (100-120V) 0.1A 6W (200-240V)

Feature	Specification
Environment Operating Temperature and Humidity	59° to 86°F (15°C to 30°C), 30 to 80% RH non-condensing
Storage Temperature and Humidity	32° to 95°F (0°C to 35°C), 30 to 80% RH
Additional contents	Power Cord, USB Cable 2.0, Roller Cleaning paper, CD-ROM
Additional features	End user replaceable feed and sensor rollers; electronic color drop out (red, green, blue)
Application connectivity	VRS with Image Control, VRS enables ISIS and TWAIN Drivers Direct ISIS and TWAIN Drivers

System requirements

Following is the minimum recommended system configuration to run the *Kodak Sidekick 1400u* Scanner:

Processor: Pentium IV, 1.4 GHz or higher

Memory:

Black and white scanning:

- Recommended: 512 MB or higher for improved scanning speed
- Minimum: 256 MB

Color scanning:

- Recommended: 1 GB or higher for improved scanning speed
- Minimum: 512 MB

Operating system

- Microsoft Windows XP Professional; Service Pack 3 (32-bit)
- Microsoft Windows Vista Business; Service Pack 2 (32-bit and 64-bit)
- Microsoft Windows 7 Professional (32-bit and 64-bit)

Interface: USB 2.0 (standard)

NOTES:

- Do not connect the scanner to a USB hub.
- There must be 1 GB or more of free space on the hard drive.
- Depending on the computer system and the scanning application or document management software used, you may not be able to scan a large color image in high resolution.

Space requirements

Following are the minimum space requirements that are recommended to open and maintain the scanner. The recommended clearance of the top and sides of the scanner will ensure that there is proper ventilation and provide the necessary area for scanner maintenance.

- **Top:** 4 in. (10 cm)
- **Sides:** 7.9 in. (200 mm)
- **Front:** 9 in. (22 cm)
- **Rear:** 10 in. (25 cm)

Appendix B Installing and Using the Imprinter

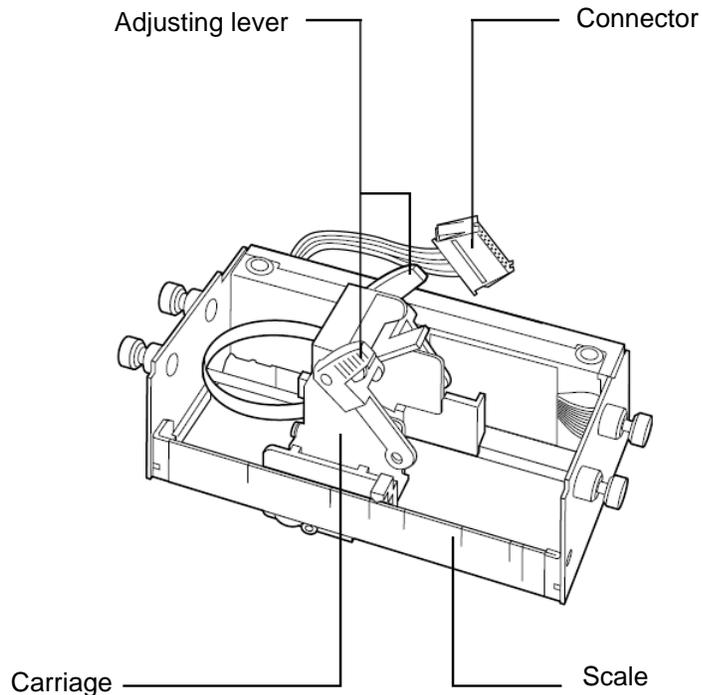
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This appendix provides procedures for installing and using the optional pre-scan imprinter and how to install and replace ink cartridges. For information on ordering supplies and accessories, see the section entitled, "Supplies and consumables" in *Chapter 4, Maintenance*.

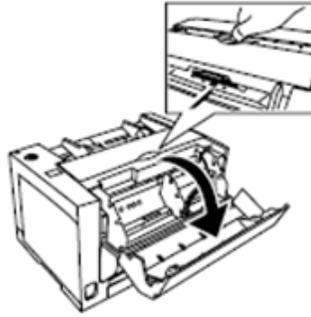
Imprinter components

Following are the components of the imprinter.

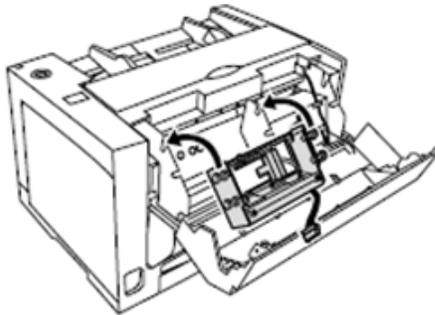


Installing the imprinter

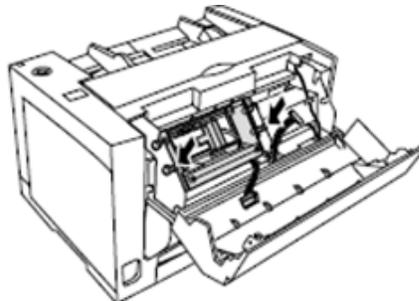
1. Turn the scanner off.
2. Open the imprinter door.



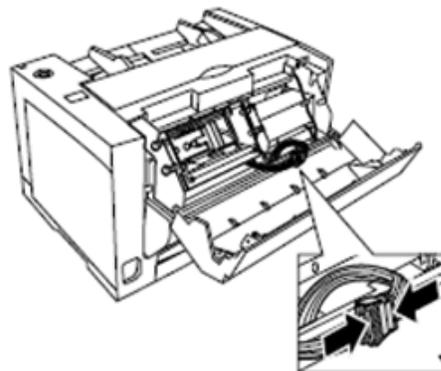
3. Insert the upper pins to the guides by matching the grooves with the guides.



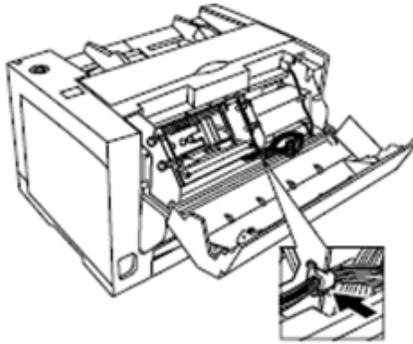
4. Insert the lower pins to the guides until they are locked by the springs.



5. Connect the cables.

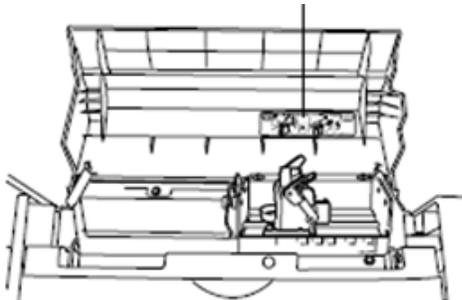


6. Insert the cables in the clamp.



7. Paste the ink cartridge exchange label provided inside the imprinter door.

Ink cartridge exchange label



8. Gently close the imprinter door.

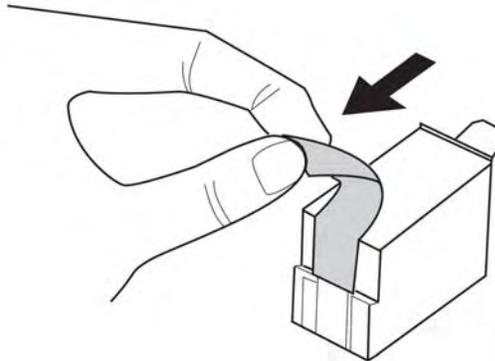
Ink cartridge installation and printing position

Review the precautions below before installing the ink cartridge:

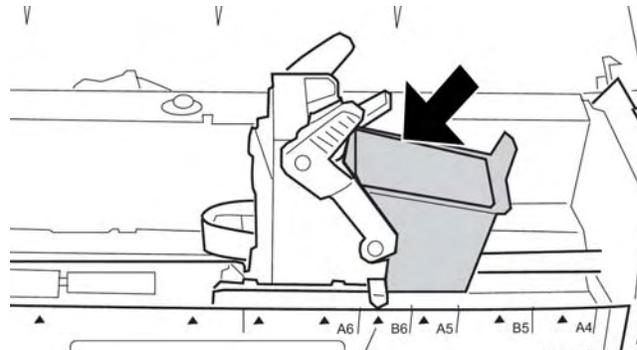
- Do not touch the print head with your hands or with a dirty object.
- If the date marked on the ink cartridge box has expired, or if the ink cartridge is used six months after unpacking the unit, the print quality may be affected.
- Be sure that the storage temperature is between 32°F and 104°F (0°C and 40°C).
- Store the ink cartridge away from direct sunlight.
- Do not clean the ink cartridge with alcohol.
- Do not let the ink come in contact with your skin.
- If the ink comes into contact with eyes, rinse the area completely with fresh water. If irritation or pain remains after rinsing, consult a doctor immediately.
- Do not dispose of the ink cartridge in fire.

Installing the ink cartridge

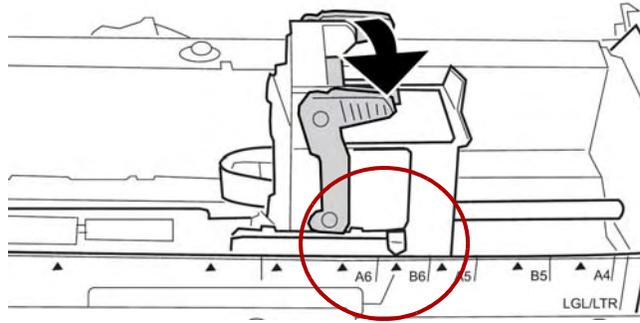
1. Remove the protective tape from the ink cartridge.



2. Insert the cartridge into the carriage.



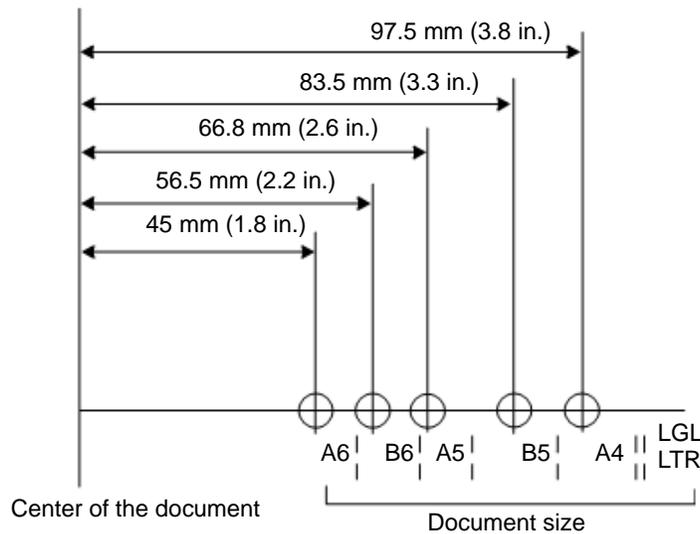
3. Move the carriage to the cartridge exchange position and lock the carriage adjusting lever.



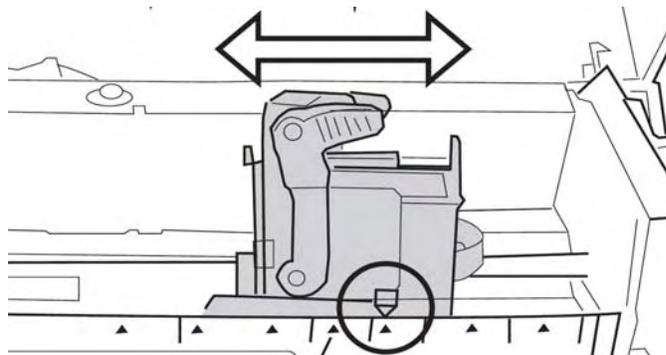
Adjusting the printing position

To add an imprint to the page that will appear on the scanned image, adjust the position of the carriage according to the size of the documents you want to scan.

This chart shows the position of the imprint according to the document size selected when adjusting the printer position.



- Move the carriage to align the tab on carriage with one of the marks that appears on the scale.



NOTE: The tab on the carriage must be aligned with one of the marks on the scale. If the carriage is not properly aligned, the imprinter will not print.

Cleaning the ink cartridge

If the head of the ink cartridge is dirty or if the ink cartridge has not been used for a long period of time, it may not print properly.

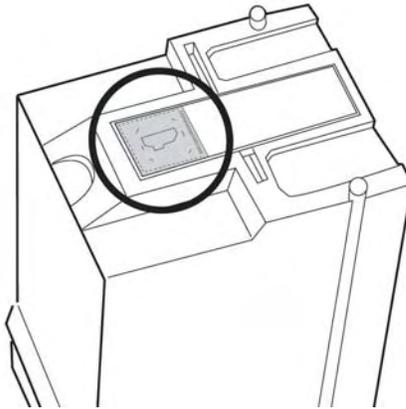
Cleaning the print head automatically



1. Click the **User Utility** icon to open the User Utility.
2. Click **Clean Imprinter**. This option only improves the print quality. *This option is only available if the imprinter is installed.*

Cleaning the print head manually

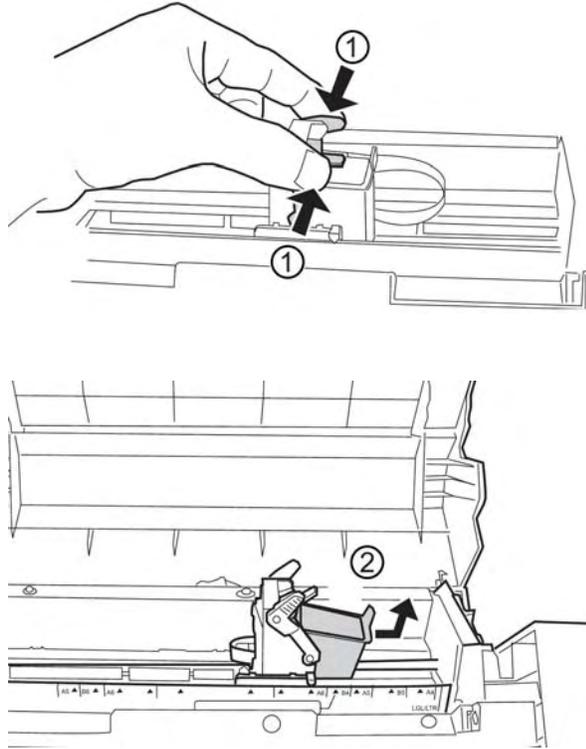
1. Remove the ink cartridge as described in the next section.
2. Use a moistened tissue paper to gently wipe and clean the print head.



CAUTION: Do not use any material that contains alcohol or the roller cleaning paper to clean the print head.

Removing the ink cartridge

- Pinch the cartridge adjusting lever (1) and lift the cartridge out of position (2).



Ink cartridge disposal: Consult the Hewlett-Packard website for recycling printing supplies or disposing of the ink cartridges according to local regulations.

Ink cartridge specifications

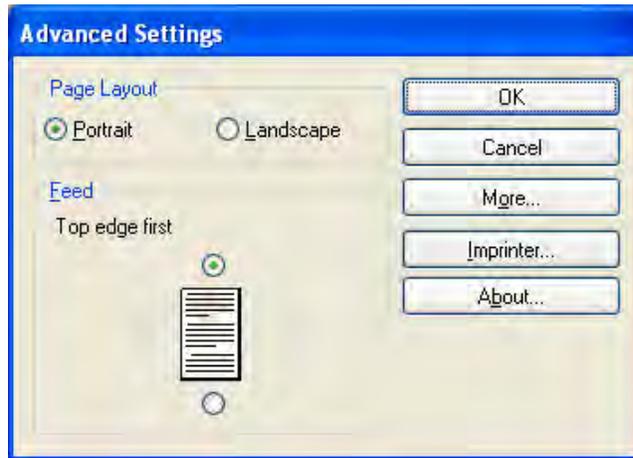
The optional pre-scan imprinter unit and replacement ink cartridges are available from resellers, web merchants and from the Kodak on-line store (<http://scannerstore.kodak.com>). See the section entitled, "Supplies and consumables" in *Chapter 4, Maintenance*.

Ink cartridge life	Approximately 4,000,000 characters (standard font)
Nozzles	12
Unusable documents	Plastic film or coated paper should not be used with the imprinter
Storage environment	Temperature: 32°F to 104°F (0°C to 40°C) Humidity: 10% to 80% RH
Operating environment	Temperature: 59°F to 86°F (15°C to 30°C) Humidity: 30% to 80% RH

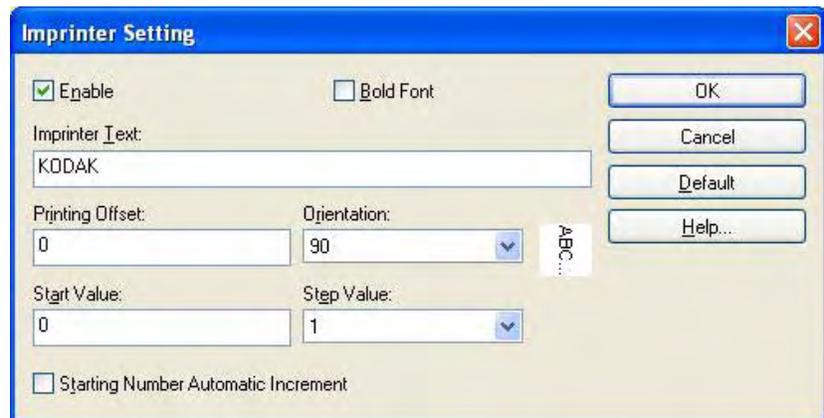
Setting up the print string

The pre-scan imprinter prints on the front side of documents before they are scanned. The printed results are reflected on the scanned image.

1. Click **Imprinter** on the Advanced Settings dialog box.



The Imprinter Setting dialog box will be displayed.



2. Click **Enable**.
3. If you want bold type, click **Bold Font**.
4. In the *Imprinter Text* field, type in the character string to be printed.
5. Type in the printing offset in the *Printing Offset* field. A 10 mm offset is always added to this value.

Unit: 2.38 mm per increment (printing orientation: 90, 270°)

1: 12.38 mm

2: 14.76 mm

Unit: 3.44 mm per increment (printing orientation: 00, 180°)

1: 13.44 mm

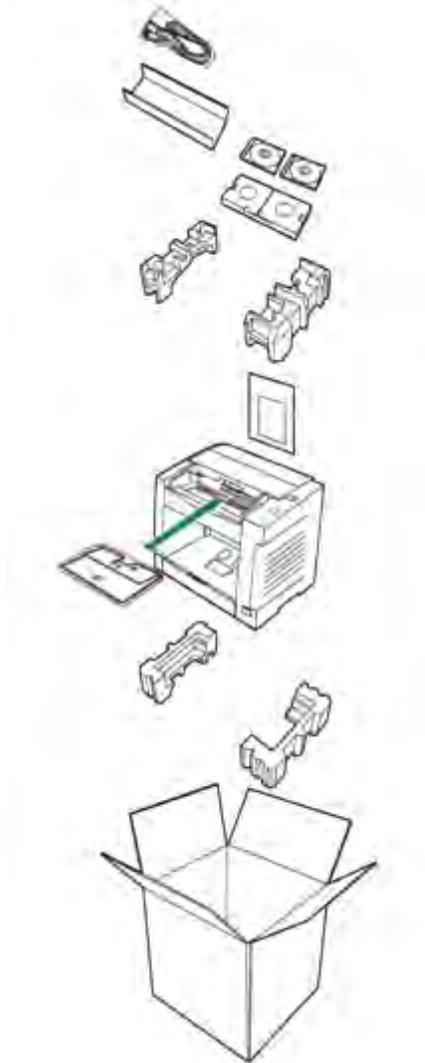
2: 16.88 mm

6. In the *Start Value* field, type in the default value of the counter specified by the imprinter string.
7. In the *Step Value* field, type in the step number of the counter specified by the imprinter string.
8. Select the printing orientation from the *Orientation* drop-down list.
9. If desired, check the **Starting Number Automatic Increment** checkbox to automatically increment the number at the start of scanning plus the number of pages scanned x the step number, upon completion of scanning.
10. Click **OK** when finished.

Appendix C Repacking the Scanner

If you need to transport or ship the scanner, follow these repacking instructions.

- Use the original scanner carton and packing materials. You will also need shipping tape and scissors.
 - Improper repacking of the scanner may cause damage during handling and shipment.
 - The scanner should always be handled in the horizontal position.
1. Turn the scanner off.
 2. Disconnect the power cord from the scanner and electrical outlet.
 3. Disconnect the USB cable from the scanner and the host PC.
 4. Pack the scanner in the original carton using the packing materials.



Kodak

