# SnapScan 1236s

# Owner's Guide



AGFA

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# Contents

# Preface

# About SnapScan

In this Owner's guide, the name SnapScan is used for the SnapScan 1236s.

The SnapScan is a one pass 12-bit flatbed color scanner with a resolution of 600 x 1200 ppi equiped with a cold cathode lamp. The scanner works at 12 bit internally. It is based on CCD scanning technology. With the SnapScan, you can scan line-art, gray-scale and color reflective originals up to A4 format.

The scanned data is transferred to the computer through SCSI. The computer can be an Apple Macintosh or PC.

SnapScan is a scanner that captures and converts reflective originals (for example pictures or text) into electronic data that can be used in computer applications. It offers high-resolution image capturing and is an ideal tool in making presentations come to life.

If you purchased the automatic document feeder you can scan up to 60 sheets of text fast and without interruption. Some software packages allow you to convert the scanned sheets of text into most of the commercially used text file formats.

If you purchased the transparency option, you can scan transparent originals (for example slides) as well.

SnapScan supports multiple scanning modes and includes scanner software to get you started right away. With its powerful and easy-to-use scanner driver software, SnapScan gives you easy access to high-quality color scans. The scanner driver software gives you a number of additional features to create special effects or to reproduce even the most difficult originals.

The document cover is adjustable: when you put a thick original (like a book or a magazine) on the reflective glass plate, the document cover adapts to the thickness of the original.

# Environmental Requirements

- Place the scanner on a horizontal, flat surface.
- To ensure proper ventilation, allow a minimum of 10 cm (4 inches) free space around each side of the scanner.
- Make sure that no vibrations or shocks occur.
- Make sure that the area is free of dust.
- Avoid any contact with water. Do not use your scanner near water or in a damp environment.
- Your SnapScan is designed to perform at best when the environmental humidity is between 20% and 85%. Avoid environments where humidity fluctuations might occur.
- Your SnapScan is designed to perform at best when the environmental temperature is between 10 °C and 40 °C. Avoid exposure to direct sunlight and heating devices.
- Check whether the voltage of the power supply corresponds to the voltage of your scanner. If it does not correspond, contact your dealer. Avoid environments where voltage fluctuations might occur.

# Precautions

For your own safety and that of your equipment, respect conscientiously the Environmental Requirements and always take the following precautions:

**Caution:** For the reason of safety, besides the personal maintenance mentioned in this Owner's Guide, do not try to remove any mechanical parts or any electronic devices. If your scanner needs service, our dealer and service offices are available to help you.

- Handle your SnapScan with care: the glass plate is fragile. There is no warranty on breaking the glass plate and your dealer is not liable for consequential damages.
- Check frequently whether there is no overheating of the power plug and whether the power plug is pushed all the way into the socket.
- Turn off the machine at the end of your working day or during power failure.
- Disconnect the power plug when you want to clean the scanner housing or the glass plate and when the scanner needs servicing or repairing.
- Do not open the scanner housing as it contains high-voltage areas and sensitive components. Every repair should be carried out by your dealer.

- Do not leave originals on the reflective glass plate for excessive periods of time. The warmth of the scanner may cause them to deteriorate.
- For safety reasons, never use extension cables for power cords.

# Cleaning your Scanner

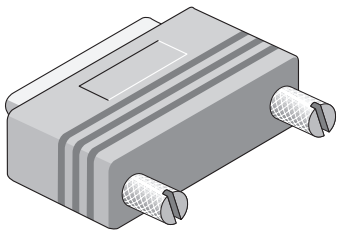
- Cleaning the glass plate regularly, ensures that dirt or smudges do not reduce the quality of your scanned images.
- Before cleaning, turn off the power of the scanner and disconnect the power cord.
- Use a soft damp cloth and a mild detergent to clean the surface of the glass plate. If you use alcohol to clean the glass plate, make sure that you do not touch the plastic elements of the scanner.
- Avoid using sprays directly onto the glass plate as this may cause the liquid to penetrate the seams around the glass and contaminate the mirrors and lenses inside the scanner.
- Do not use liquid cleaners or aerosol cleaners.

# SCSI Devices

SnapScan is a Small Computer System Interface (SCSI) device. It communicates with your computer via the SCSI cable and SCSI card of your computer. The SCSI communication allows you to have up to seven devices connected to your computer. Examples of SCSI devices are a SCSI Hard Disk, a SCSI CD-ROM drive and so on.

A unique SCSI identity (SCSI ID) number is assigned to each device in the SCSI chain. Thus, the computer can identify the device it wants to communicate with.

If you encounter problems with the standard SCSI chain configurations described in this manual or if you set up other configurations, make sure that you use a 25-pin terminator. You can order a terminator via your Agfa dealer.



A terminator is an electronic component that absorbs old signals traveling along the cables and that keeps the path open for new signals. The chain should never have more than two terminators, one at each end.

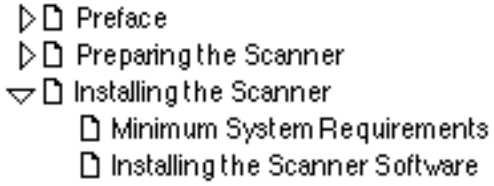
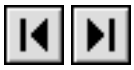
It is important to remember that using too many or too few terminators may damage your SCSI devices. Some SCSI devices have built-in terminators and must therefore be placed at the end of your SCSI chain.

The supplied ISA SCSI card (PC only) has an ISA connector. If you want to use a SCSI card for PCI slots, you can order one from your PC dealer.

❖ Note: Your SnapScan does not have a built-in terminator.

**Caution:** If two SCSI devices have the same ID number, your system will not work properly and you may damage your SCSI devices. For more information see Choosing a SCSI ID number

# How to Use this Guide

| | |
|---|---|
| About SnapScan<br>Precautions<br>Chapter 1 - Preparing the Scanner | Click any text or graphic that is identified as **hypertext link**.<br>The arrow pointer changes into an index finger when positioned over a link.<br>**Underlined** text is "linked" to another part of this guide. |
|  | Click the **bookmark** name to go to the topic marked by that bookmark. Click the triangle to the left of a bookmark to show and hide subordinate bookmarks. |
|  | Use the **First Page** or **Last Page** button to move the document to the first or last page of this manual. |
|  | Use the **Go Back** and **Go Forward** buttons to retrace your steps in this guide, moving to each view in the order visited. |
|  | Use the **Previous Page** or **Next Page** button to move the document backward or forward, one page at a time.<br>You can also use the keyboard arrows. |
|  | Use the **zoom tool** to magnify and reduce (Control-click) the page display. |
|  | Click the **Find** button to search for part of a word, a complete word, or multiple words in this document. You can also consult the supplied index. |
| Print | Choose **Print** from the File menu to print this guide. |

# How to Print this Guide

1. Choose Page Setup from the File menu.
2. Choose your paper format from the Paper pop-up menu.
3. Select Orientation: Portrait.
4. Click OK.
5. Choose Print from the File menu.

# Chapter 1 — Preparing the Scanner

This chapter helps you to prepare your SnapScan for installation.

# Unpacking the Scanner

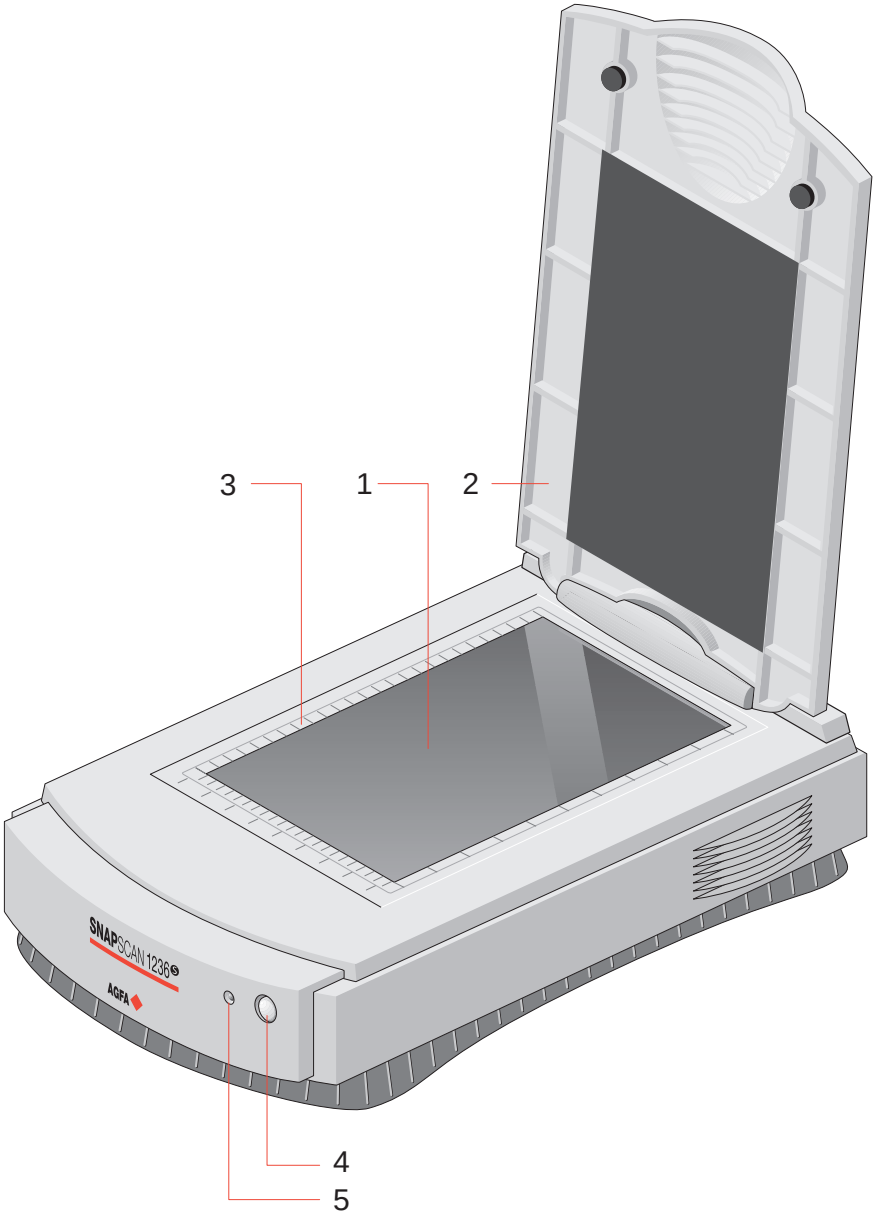
1. Open the packing box and carefully take out all the items.
2. Check each item to make sure that you have everything listed on the box and the packing list. Check if there is no visible defect.

   If something is missing, contact your dealer.
3. Remove the plastic wrapping and the packing materials from the scanner.

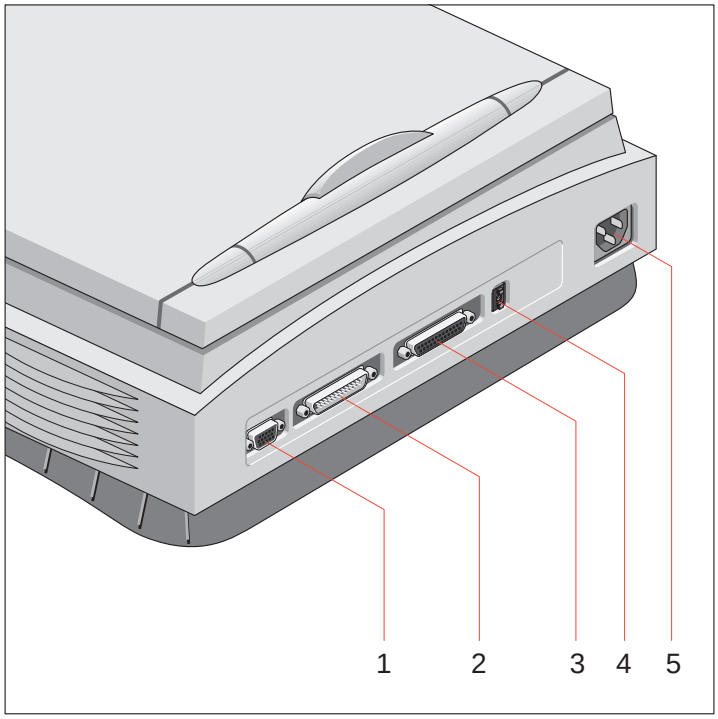
   ❖ Note: Save the packing materials to protect the scanner during later transport.

# Taking a Closer Look

Now that you have the scanner out of the box, take a closer look so that you become familiar with its parts. The figures illustrate the locations of the different parts of your SnapScan 1236s.




1. glass plate
2. adjustable document cover
3. rulers
4. power and status indicator
5. power switch



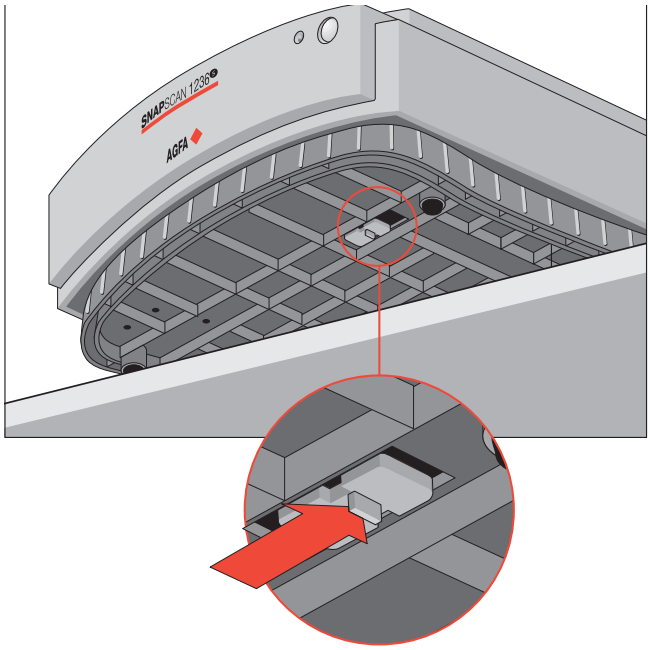

1. 15-pin socket (for connecting the transparency option or the automatic document feeder)
2. 25-pin SCSI interface connector
3. 25-pin SCSI interface connector
4. SCSI ID number
5. power connector

# Unlocking the Scanner

The scanner's optical box contains all optical components and rides back and forth during the scan. A locking slider holds it in place during shipment. You have to unlock the scanner before you turn on the scanner.

1. Place the scanner on a horizontal, flat surface and pull it towards you until you can see the locking slider at the bottom.
2. Slide the locking slider to the right.

   Your scanner is unlocked.




3. Move the scanner back on your desktop. Allow a minimum of 10 cm (4 inches) free space around each side of the scanner.

❖ Note: If you want to transport your scanner, you have to lock it. To do this, first connect the power cord to the scanner. Then switch on the scanner so that its optical assembly moves to its home position. When the status indicator stops blinking, slide the locking slider to the left and switch off the scanner. Your scanner is now locked and ready for transportation.

**Caution:** Make sure to install the ScanWise software before connecting the scanner to your Mac/PC.

# Performing a Power-on Test

You are now ready to perform a power-on test to check if the scanner is operating correctly.

1. Check whether you have unlocked the scanner.
2. Connect the power cord to the scanner.

   Make sure that you are using the correct power cord for the voltage in your area. If it does not correspond, contact your dealer.

3. Turn on the scanner.

   The scanner performs a self-test during which the power and status indicator blinks slowly. This takes about 15 seconds or less. After the self-test the indicator remains on.

   If a malfunction is detected during the self-test, that is, if the power and status indicator starts blinking at a higher frequency, refer to Appendix C, “Troubleshooting”.

# Chapter 2 — Installing the Scanner for the Macintosh Computer

This chapter shows you how to set up your SnapScan with your Macintosh computer.

# Hardware Requirements

- A PowerPC™ processor
- A 14 inch color monitor with thousands of colors for an accurate display of color images
- 32 MB of RAM
- A CD-ROM drive
- System 7.6™ or higher
- The amount of disk space available on your computer determines the number and the size of the images you can scan. Make sure you have enough free storage space on your hard disk. You need about two times the size of the image to scan, edit and save it. You need minimum 20 MB free hard disk space.

# Installing the Image Editing Software

**Caution**: Make sure to install the ScanWise software before connecting the scanner to your Macintosh computer.

1. Disable the virus protection software.

   You can turn it off in the Extensions Manager Control Panel or you can drag the software out of the System Folder.

   ❖ Note: After installing, enable the virus protection software again.
2. Restart your computer.
3. Insert the Agfa ScanWise CD-ROM.
4. Double-click the Color It! folder to open it.
5. Double-click the language folder of your choice.
6. Double-click the Install Color It! icon.
7. Make your choice in every successive screen to install Color It!™ (the image editing software).

# Installing the Scanner Software

1. With the Agfa ScanWise CD-ROM still in the CD-ROM drive, double-click the Agfa ScanWise Installer icon.
2. Click the up or down arrow to select your language.


This selection determines the language of the ScanWise software and documentation.

3. Click the up or down arrow to select your type of scanner (if needed).


4. Click the dotted right arrow or move the slider to “about ScanWise”.


A demonstration of ScanWise will start.

5. Click the dotted right arrow or move the slider to “install”.
6. Click ScanWise to start the installation.
7. Follow the instructions on your screen.

   When ScanWise is installed, you may be asked to restart your computer. In this case, repeat step 1 to 3 before continuing this procedure. Then click the dotted right arrow or move the slider to “install”.

8. Click Acrobat Reader to start the installation.

   You need Acrobat Reader to read the documentation.

9. Follow the instructions on your screen.

   When Acrobat Reader is installed you will be asked to restart your computer.

When the installation is finished you are ready to connect your scanner to your Macintosh computer.

❖ Note: For the latest information, refer to the ScanWise Read Me File.

# Connecting the Scanner to your Macintosh Computer

This section shows you how to set up your SnapScan with your Macintosh computer. First you choose and set a SCSI ID number, then you connect the scanner to your computer, and finally you test the connection.

## Choosing a SCSI ID Number

Before you connect your SnapScan to your computer, you have to find out which SCSI ID numbers are already assigned and which numbers are free.

1. Make sure that your scanner is disconnected.
2. Check in the SCSI ID list if SCSI ID number 2 is free:
   Open the Apple System Profiler that you find under the  menu.

   For system 8.1:

   Select the menu ‘Device and Information’.

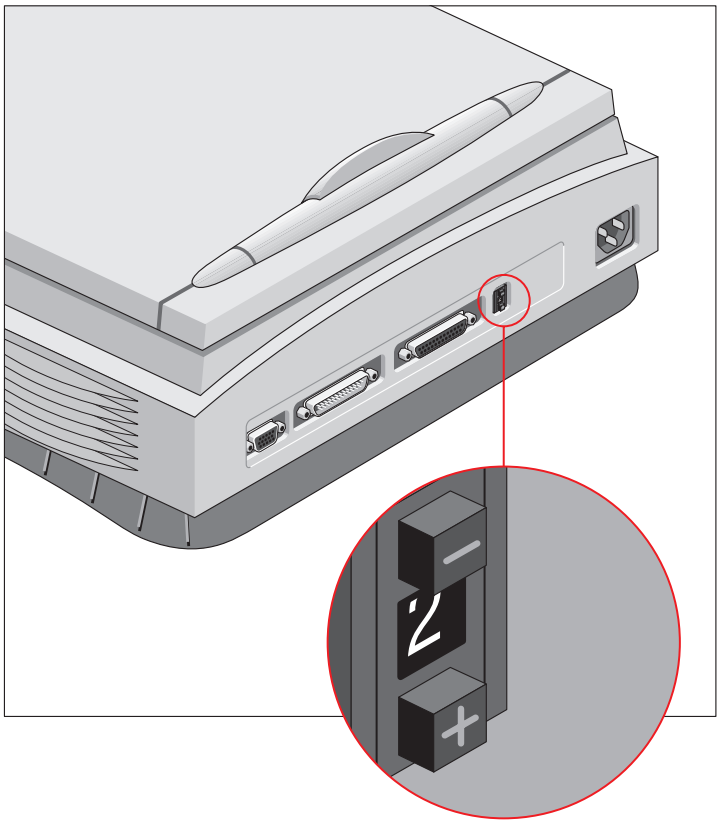
   For minimum system 8.5:

   Click the tab ‘Devices and Volumes’.

   - If SCSI ID number 2 is free, check at the rear of the scanner if the SCSI ID number is set to number 2. If not, set it to number 2. To do this properly, refer to Setting the scanner to a SCSI ID number.
   - If SCSI ID number 2 is already assigned, you need to set the scanner to a free SCSI ID number. To do this properly, refer to Setting the scanner to a SCSI ID number.

# Setting the Scanner to a SCSI ID Number

1. Make sure that your scanner is turned off and that it is disconnected from your computer.
2. Choose an unassigned SCSI ID number.
3. Push the button above or underneath the SCSI ID number at the rear of the scanner until you see the number you want.



# Connecting the Scanner

Before you connect the scanner to your Macintosh computer, make sure that your scanner as well as your Macintosh computer are turned off.

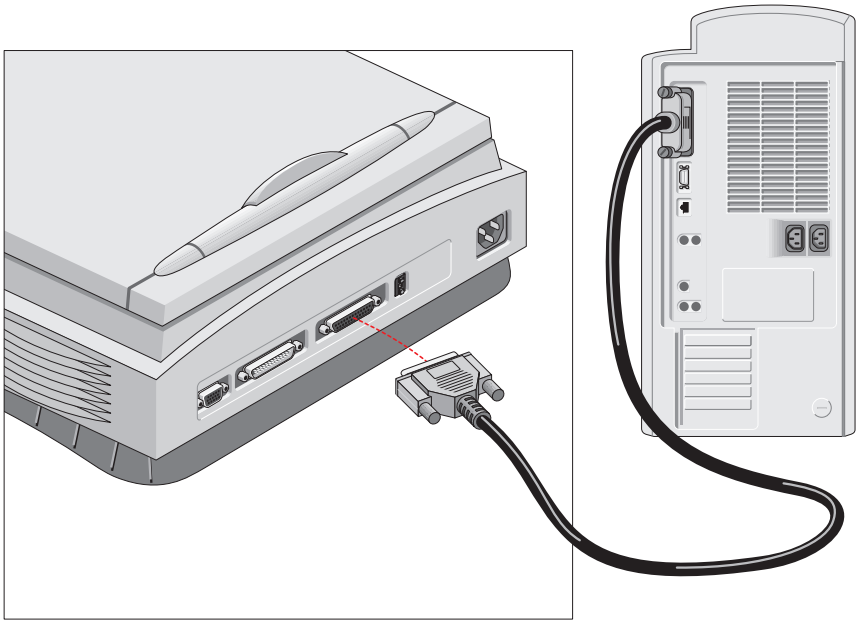
A SCSI cable is supplied with your scanner. If the cable does not fit, please contact your dealer.

In some of the following configurations you need a SCSI terminator. If you do not have a terminator, you can order one via your dealer.

**Caution:** For safety reasons, never use extension cables for power cords. Always make sure there are no more than two terminators in your SCSI chain, one at the beginning and one at the end. You put the device with the terminator at the end of your SCSI chain. Some SCSI devices, such as the external hard disk, have built-in terminators and must therefore be placed at the end of your SCSI chain. Check the documentation of each of your SCSI devices if you are not sure whether the device has a built-in terminator or not. The last device of your chain has to be terminated. Your SnapScan has no built-in terminator. For more information see SCSI devices.

## If your SnapScan is the only SCSI device to be connected to your computer

1. Turn off your scanner and disconnect the power cord.
2. Turn off your computer and disconnect the power cord.
3. Connect one end of the SCSI cable to the connector on your computer.
4. Connect the other end of the SCSI cable to the connector on your scanner.



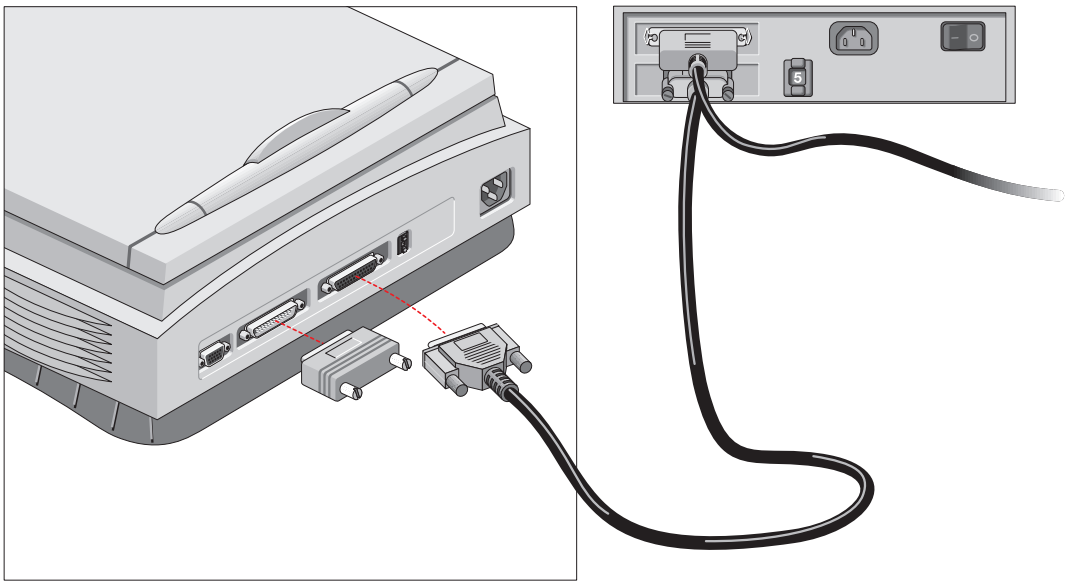
❖ Note: If you are using another or a longer SCSI cable than the one provided with your scanner, you have to put a terminator on the free 25-pin SCSI socket as shown on the picture.

5. Tighten the connector screws to secure the connection.

❖ Note: In case of problems, refer to Appendix C, Troubleshooting.

## If your SnapScan will be connected to your computer together with other SCSI devices

- If you install the scanner at the end of your SCSI chain

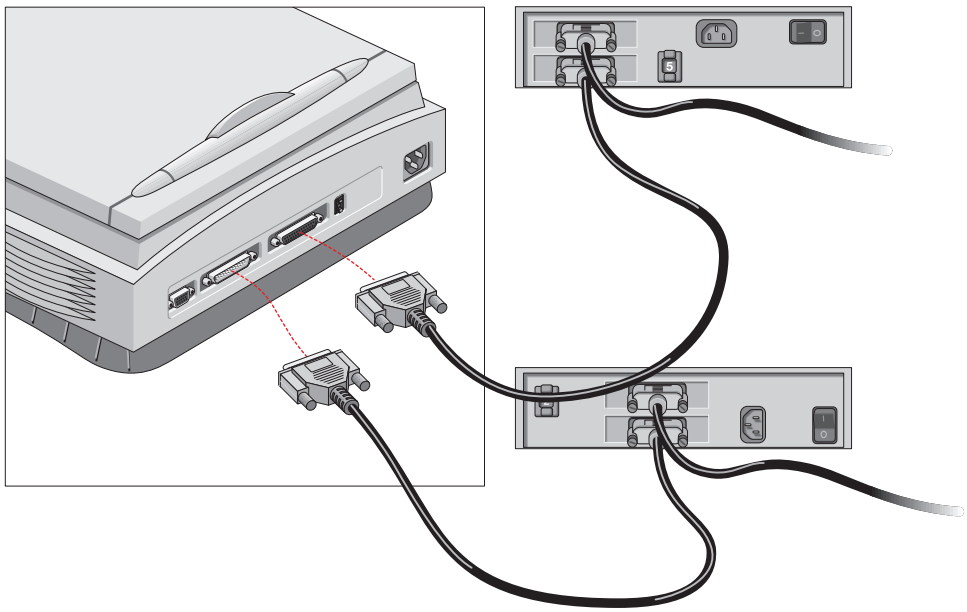


1. Remove or switch off the terminator from the last device in the SCSI chain.
2. Connect one end of the SCSI cable to the connector that has become available on this device.
3. Place the terminator on the free 25-pin SCSI socket of the scanner.
4. Connect the other end of the SCSI cable to the other connector of the scanner.
5. Tighten the connector screws to secure the connection.

❖ Note: In case of problems, refer to Appendix C, Troubleshooting.

■ If you install the scanner between two other devices

**Caution:** Do not connect a terminator directly to the scanner in this configuration.



1. Disconnect your SCSI cable from one of the two other devices.
2. Connect the free end of this SCSI cable to the scanner.
3. Connect one end of the SCSI cable (the one supplied with your scanner) to the other adjacent SCSI device.
4. Connect the other end of the SCSI cable (the one supplied with your scanner) to the scanner.
5. Tighten the connector screws to secure the connection.
6. Make sure that the last device in the chain is terminated.

❖ Note: In case of problems, refer to Appendix C, Troubleshooting.

## Testing the Connection

You are now ready to perform a test to check if the scanner is correctly connected to your Macintosh computer.

**Caution:** Make sure the scanner is unlocked.

1. Connect the power cord to the scanner.

   Use the correct power cord for the voltage in your area. SnapScan automatically adjusts to any AC electrical outlet rated from 100V to 240V.

2. Check if the SCSI cable is properly connected.

3. Turn on your scanner.

   The scanner performs a self-test during which the power and status indicator blinks slowly. This takes about 15 seconds or less. After the self-test the indicator remains on.

   If a malfunction is detected during the self-test, that is, if the power and status indicator starts blinking at a higher frequency, refer to Appendix C, Troubleshooting.

4. Turn on any other SCSI devices you may have attached, and wait for them to start up.

5. Turn on your Macintosh.

   As your Macintosh computer starts up, it performs a series of tests to verify the correct system configuration.

# Installing Additional Software

If you want to use OCR (Optical Character Recognition) you will have to install OmniPage LE. To do so, insert the Caere CD-ROM and follow the instructions on your screen.

For a general overview of the possible workflows and to see how the software works together, please refer to the Navigation Map which is supplied with your scanner.

# Chapter 3 — Installing the Scanner for the PC

This chapter shows you how to set up your SnapScan with your PC.

# Hardware Requirements

- A Pentium™ processor
- A 14 inch color monitor
- A 16-bit video card for an accurate display of color images (minimum High Color 16bit)
- 32 MB of RAM
- ScanWise is compatible with all IBM™ PC's and compatibles capable of running Windows™ 95, Windows 98 and Windows NT™ 4.0 for Intel® platforms.
- A SCSI card supported by the operating system.You can use the ISA SCSI card that is delivered with your SnapScan (See Installing the ISA SCSI Card) or you can use your own SCSI card if you have one. Some SCSI cards require a special SCSI cable (for example wide SCSI). Contact your supplier for the proper cable.

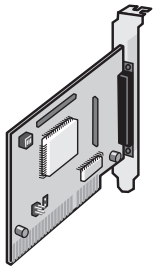
  If you do not use the ISA SCSI card that is supplied with your SnapScan, you should look at your PC's documentation for information about installing SCSI cards. Check the installation and set-up guidelines in the documentation that is supplied together with your SCSI card.
- A CD-ROM drive
- The amount of disk space available on your PC determines the number and the size of the images you can scan. Make sure you have enough free storage space on your hard disk. You need about two times the size of the image to scan, edit and save it. You need a minimum of 30 MB free hard disk space.

# Installation with the Agfa Supplied SCSI Card

This section shows you how to set up your SnapScan with your PC. You can find information on the ISA SCSI card, instructions for connecting the scanner to your PC and instructions for testing the connection.

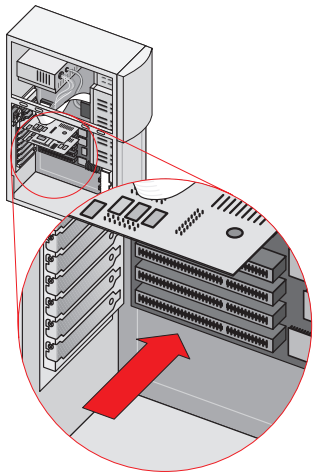
## Installing the ISA SCSI card

SnapScan requires a SCSI card to work with your Pentium PC.



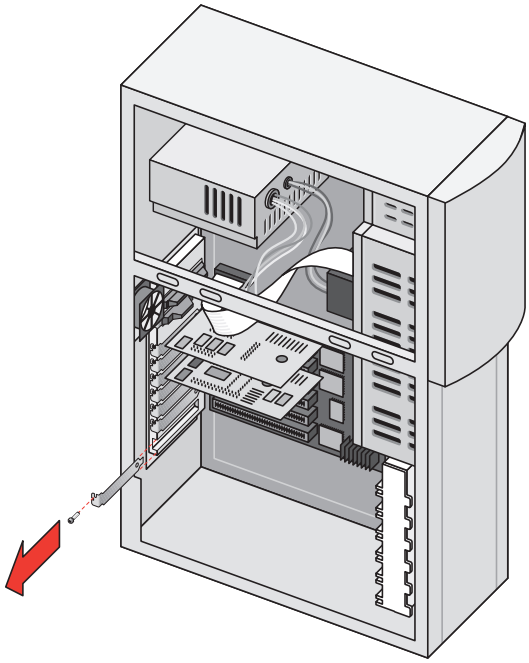
**Caution**: We assume that you have no other SCSI devices installed and that you use the card and cable that are supplied by Agfa.

1. Turn off your computer and disconnect the power cord.
2. Remove the cover of your computer.
3. Find a free 16-bit ISA expansion slot.

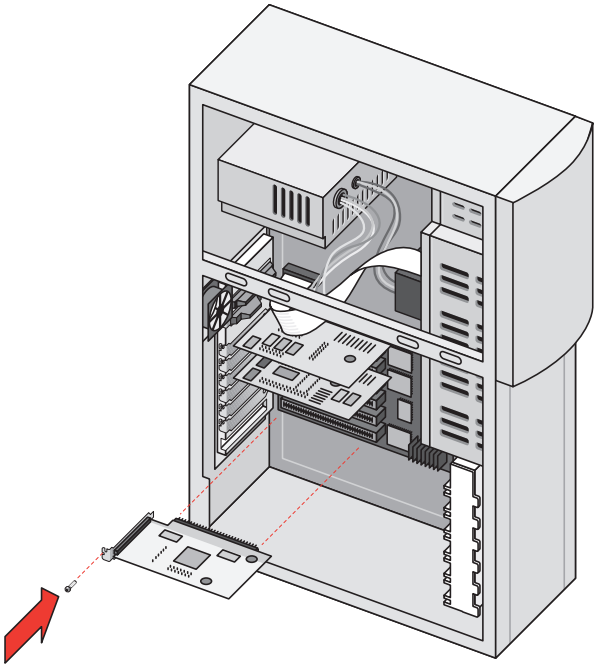


- Note: Make sure you choose an ISA slot, and not a PCI slot.
  An ISA slot is longer than a (white) PCI slot. If all your ISA slots are occupied by other cards, you have to use a PCI card. You can order a PCI card from your PC dealer. For more information, refer to your computer manual.

4. Remove the corresponding slot cover from the back of the computer chassis. Keep the screw that held the cover in place.



5. Touch some metal part of the computer and then remove the SCSI card from its antistatic bag, holding it by its metal support bracket. Static electricity can damage your card.
6. Position the SCSI card in the expansion slot and press down firmly.
   Make sure the card is inserted completely. You can feel it snap into place.



7. Secure the card with the screw that you removed in step 4.
8. Put back the cover of the computer.

   For more information, refer to the installation guide of the ISA SCSI card and to your computer manual.

# Installing the SCSI Driver

## Windows 95 and Windows 98

❖ Note: Make sure your scanner is not connected to your computer.

1. Turn on your computer.
   Windows will automatically detect the new hardware: the ISA SCSI card.
2. Follow the instructions on the screen.
   Windows will ask you to insert the Windows CD-ROM or diskettes to install the driver for your ISA SCSI card.

   Now you are ready to install the scanner software.

## Windows NT Version 4.0

❖ Note: Make sure your scanner is not connected to your computer.

1. Turn on your computer.
2. Open the Control Panel.
3. Open SCSI Adapters.
   The SCSI Adapters dialog box appears.
4. Select the Drivers page and click Add.
   The Install Driver dialog box appears.
5. Select Adaptec in the Manufacturers list and ‘Adaptec AHA 151x’ in the SCSI Adapter list.
6. Click OK.
   The installation of the drivers is finished. Your computer will restart.

   Now you are ready to install the scanner software.

# Installing the Scanner Software

❖ Note: Make sure your scanner is not connected to your computer.

## Windows 95, Windows 98 and Windows NT Version 4.0

1. Insert the Agfa ScanWise CD-ROM in your CD-ROM drive.

❖ Note: If the ScanWise Installer program does not appear automatically, use the Windows Explorer to start the installation program.

2. Click the up or down arrow to select your language.


This selection determines the language of the ScanWise software and documentation.

3. Click the up or down arrow to select your type of scanner (if needed).


4. Click the dotted right arrow or move the slider to “about ScanWise”.


A demonstration of ScanWise will start.

5. Click the dotted right arrow or move the slider to “install”.
6. Click Acrobat Reader to start the installation.
   You need Acrobat Reader to read the documentation.
7. Follow the instructions on your screen.
   When the installation is finished, the Install screen appears again.
8. Click ScanWise to start the installation.
9. Follow the instructions on your screen.

Shut down your computer when the installation is finished. Now you are ready to connect your scanner to your PC.

❖ Note: For the latest information, refer to the ScanWise Read Me File.

# Connecting the Scanner to your PC

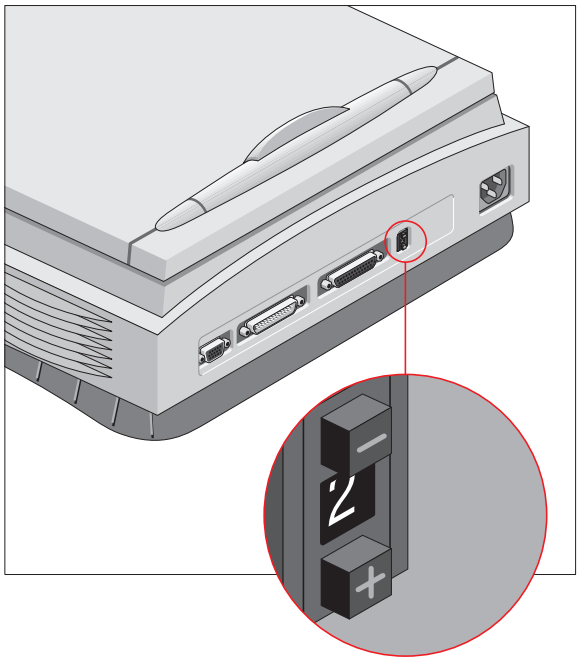
## Choosing a SCSI ID Number

Before you connect your SnapScan to your computer, you have to find out which SCSI ID numbers are already assigned and which numbers are free.

1. Make sure your scanner is disconnected.
2. Check at the rear of the scanner if the SCSI number is set to SCSI ID number 2. If it is not, set it to SCSI ID number 2. To do this properly, refer to Setting the scanner to a SCSI ID Number.

## Setting the Scanner to a SCSI ID Number

1. Make sure that your scanner is turned off and that it is disconnected from your computer.
2. Choose an unassigned SCSI ID number.
3. Push the button above or underneath the SCSI ID number at the rear of the scanner until you see the number you want.

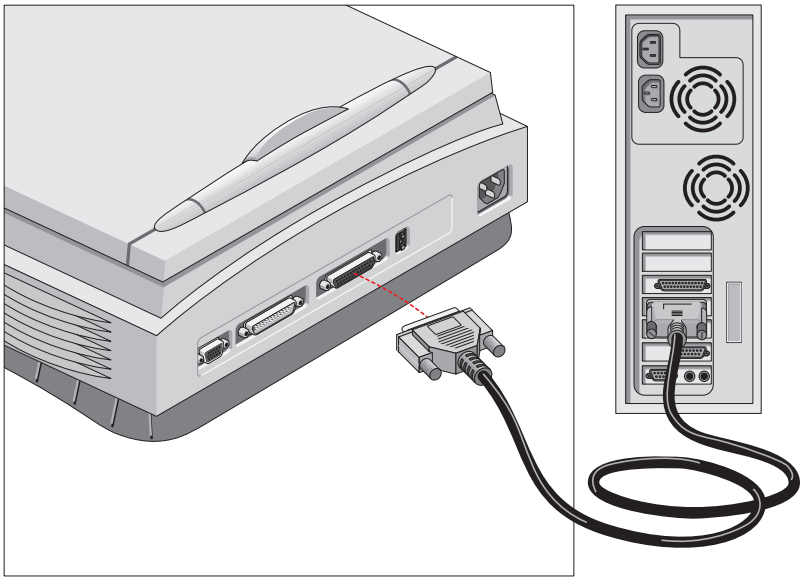


## Connecting the Scanner

**Caution:** For safety reasons, never use extension cables for power cables. Never try to connect the scanner to the serial or parallel port of your PC: you might seriously damage your equipment if you do.

1. Turn off your computer and disconnect the power cord.
2. Plug one end of the SCSI cable into the SCSI card connector of your computer.

   A SCSI cable is supplied with your scanner.
3. Plug the other end of the SCSI cable into the SCSI connector at the rear of the scanner.
4. Tighten the connector screws to secure the connection.



5. Connect the power cord to the computer.
6. Connect the power cord to the scanner.

❖ Note: If you are using another or a longer SCSI cable than the one provided with your scanner, you have to put a terminator on the free 25-pin SCSI socket as shown on the picture.

7. Turn on your scanner.

   The scanner performs a self-test during which the power and status indicator blinks slowly. This takes about 15 seconds. After the self-test the indicator remains on.

   ❖ Note: If a malfunction is detected during the self-test, that is, if the power and status indicator starts blinking at a higher frequency, refer to the Troubleshooting section at the end of this chapter.

8. Turn on your computer.

   The operating system will now detect the scanner and will install the necessary files for the scanner hardware driver.

❖ Note: In case of problems, refer to Appendix C. Troubleshooting.

# Installation If your PC already has a SCSI Card

**Caution:** Make sure you installed the Scanner Software before connecting the scanner to your PC.

## Connecting the Scanner to your PC

### Choosing a SCSI ID Number

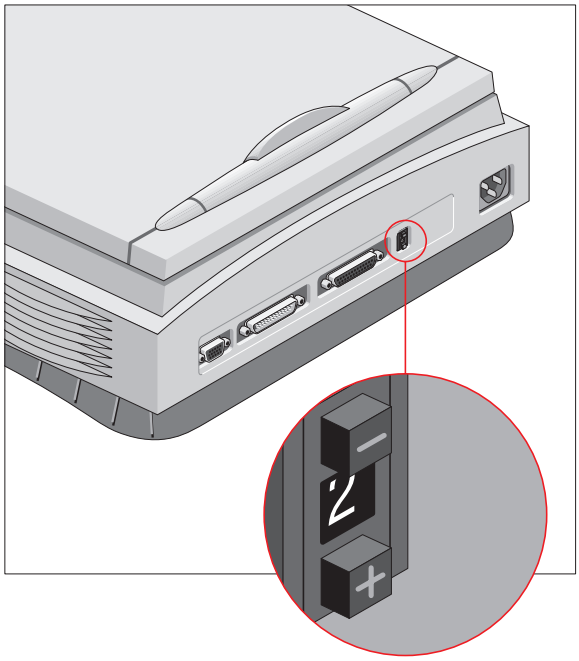
Before you connect your SnapScan to your PC, you have to find out which SCSI ID numbers are already assigned and which numbers are free.

1. Make sure that your scanner is disconnected.
2. Check at the rear of the scanner if the SCSI ID number is set to number 2.

- If it is not, set it to number 2. To do this properly, refer to Setting the Scanner to a SCSI ID number.
- If SCSI ID number 2 is already assigned, you need to set the scanner to a free SCSI ID number. To do this properly, refer to Setting the Scanner to a SCSI ID number.

### Setting the Scanner to a SCSI ID Number

1. Make sure that your scanner is turned off and that it is disconnected from your computer.
2. Choose an unassigned SCSI ID number.
3. Push the button above or underneath the SCSI ID number at the rear of the scanner until you see the number you want.



## Connecting the Scanner

Before you connect the scanner to your PC, make sure that your scanner as well as your PC are turned off.

A SCSI cable is supplied with your scanner. If the cable does not fit, please contact your dealer.

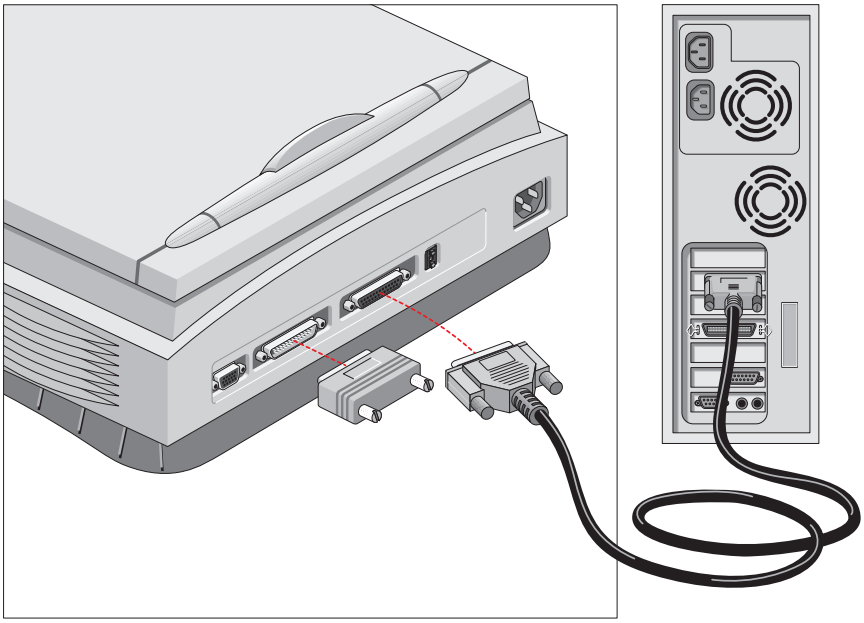
In some of the following configurations you need a SCSI terminator. If you do not have a terminator, you can order one via your dealer.

**Caution:** For safety reasons, never use extension cables for power cables. Always make sure there are no more than two terminators in your SCSI chain, one at each end. Some SCSI devices, such as an external hard disk, have built-in terminators and must therefore be placed at the end of your SCSI chain. Please check the documentation of each of your SCSI devices if you are not sure whether the device has a built-in terminator. The last device in your chain has to be terminated. Your SnapScan has no built-in terminator. For more information about SCSI devices see earlier in this chapter: SCSI devices
Never try to connect the scanner to the serial or parallel port of your PC: you might seriously damage your equipment if you do.

**Your PC has a 25-pin connector and your SnapScan is the only SCSI device to be connected to your computer**

1. Turn off your scanner and disconnect the power cord.
2. Turn off your computer and disconnect the power cord.
3. Connect one end of the SCSI cable to the connector on your computer.
4. Connect the other end of the SCSI cable to the connector on your scanner.

❖ Note: If you use the short SCSI cable provided with your scanner you don't need to put a terminator on your scanner. If you use another or a longer SCSI cable than the one provided with your scanner, you have to put a terminator on the free 25-pin SCSI socket as shown on the picture.

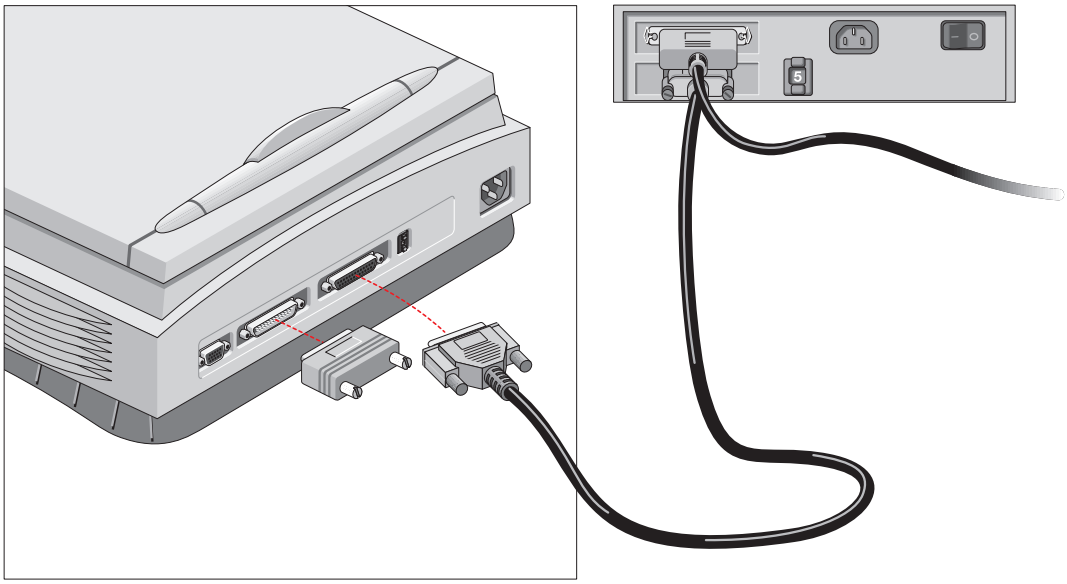


5. Tighten the connector screws to secure the connection.

❖ Note: In case of problems, refer to Appendix C, Troubleshooting.

**Your PC has a 25-pin connector and your SnapScan will be connected to your computer together with other SCSI devices**

■ If you install the scanner at the end of your SCSI chain



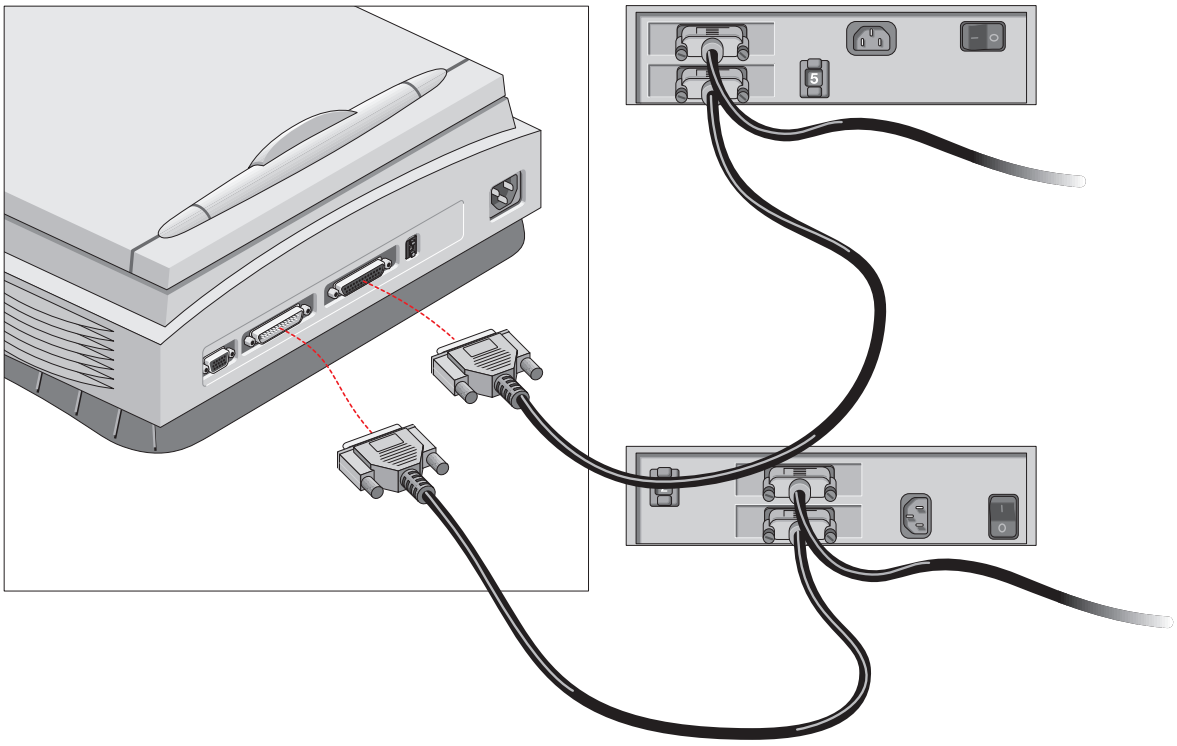
1. Remove or switch off the terminator from the last device in the SCSI chain.

2. Connect one end of the SCSI cable to the connector that has become available on this device.
3. Place the terminator on the free 25-pin SCSI socket of the scanner.
4. Connect the other end of the SCSI cable to the other connector of the scanner.
5. Tighten the connector screws to secure the connection.

❖ Note: In case of problems, refer to Appendix C, Troubleshooting.

■ If you install the scanner between two other devices

**Caution:** Do not connect a terminator directly to the scanner in this configuration



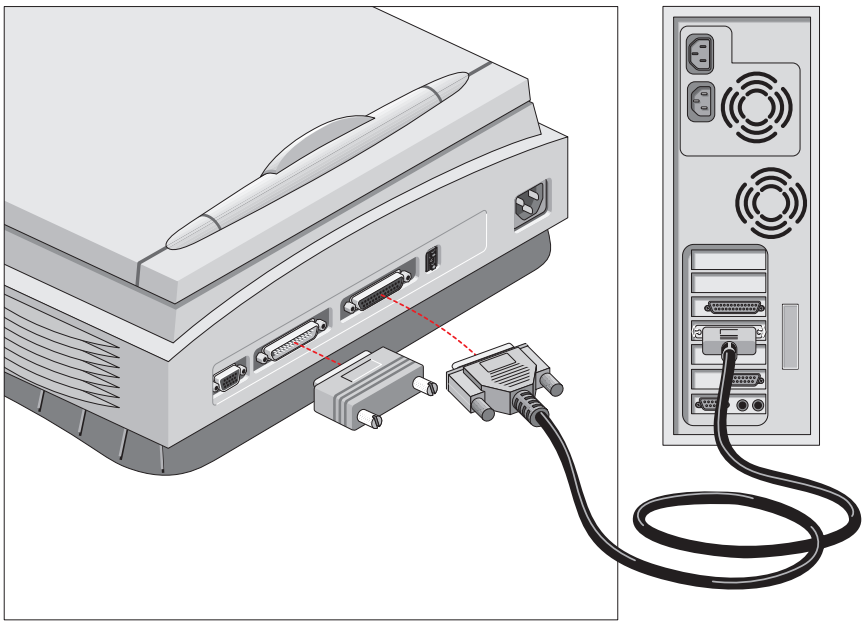
1. Disconnect your SCSI cable from one of the two other devices.
2. Connect the free end of this SCSI cable to the scanner.
3. Connect one end of the SCSI cable (the one supplied with your scanner) to the other adjacent SCSI device.
4. Connect the other end of the SCSI cable (the one supplied with your scanner) to the scanner.
5. Tighten the connector screws to secure the connection.
6. Make sure that the last device in the chain is terminated.

❖ Note: In case of problems, refer to Appendix C, Troubleshooting.

**Your PC has a 50-pin connector and your SnapScan is the only SCSI device to be connected to your PC**

**Caution:** In this configuration, you cannot use the SCSI cable supplied with your scanner. Use a 25-pin to 50-pin high density SCSI cable.

1. Turn off your scanner and disconnect the power cord.
2. Turn off your computer and disconnect the power cord.
3. Connect the larger 50-pin end of the SCSI cable to the connector at the rear of your PC.
4. Connect the smaller 25-pin end of the SCSI cable to the 25-pin plug of the scanner.
5. Put a terminator on the free 25-pin SCSI socket as shown on the picture.

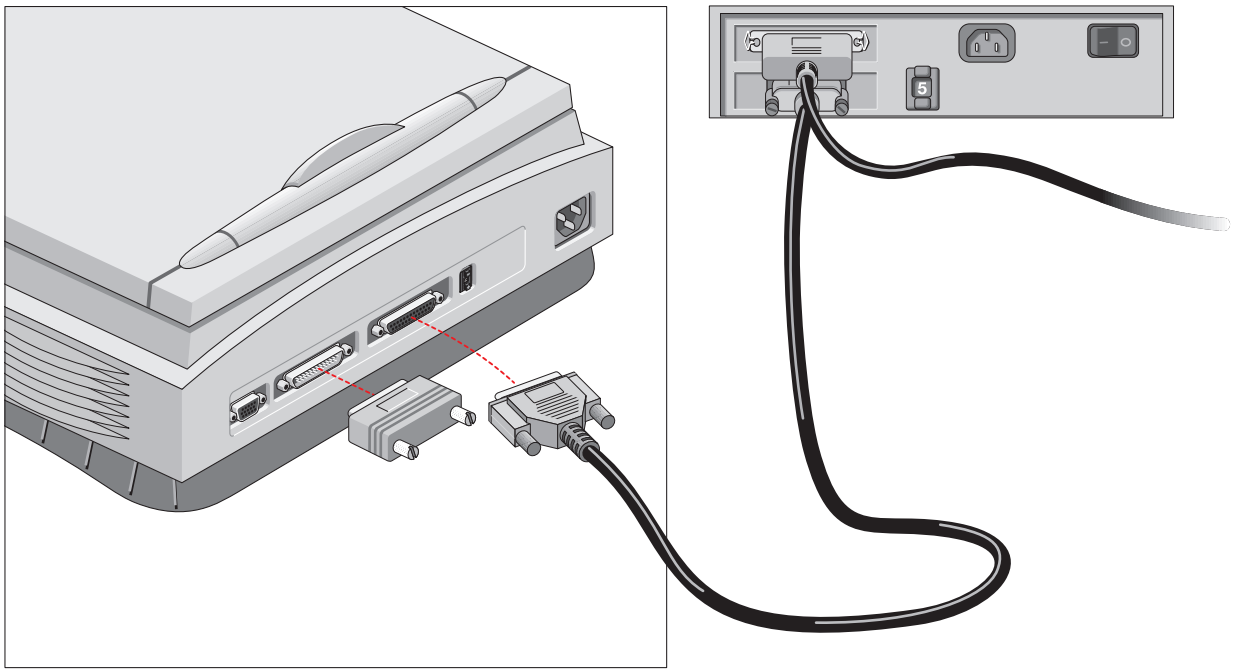


6. Tighten the connector screws to secure the connection.

❖ Note: In case of problems, refer to Appendix C. Troubleshooting.

**Your PC has a 50-pin connector and your SnapScan will be connected to your PC together with other SCSI devices**

- If you install the scanner at the end of your SCSI chain



1. Remove or switch off the terminator from the last device in the SCSI chain.
2. Connect one end of the SCSI cable to the connector that has become available on this device.
3. Put the terminator on the 25-pin socket of the scanner.
4. Connect the other end of the cable to the scanner.
5. Tighten the connector screws to secure the connection.

❖ Note: In case of problems, refer to Appendix C. Troubleshooting.

- If you install the scanner between two other devices

Refer to Installing the scanner between two other devices.

# Installing Additional Software

If you want to use OCR (Optical Character Recognition) you will have to install OmniPage LE. To do so, insert the Caere CD-ROM and follow the instructions on your screen.

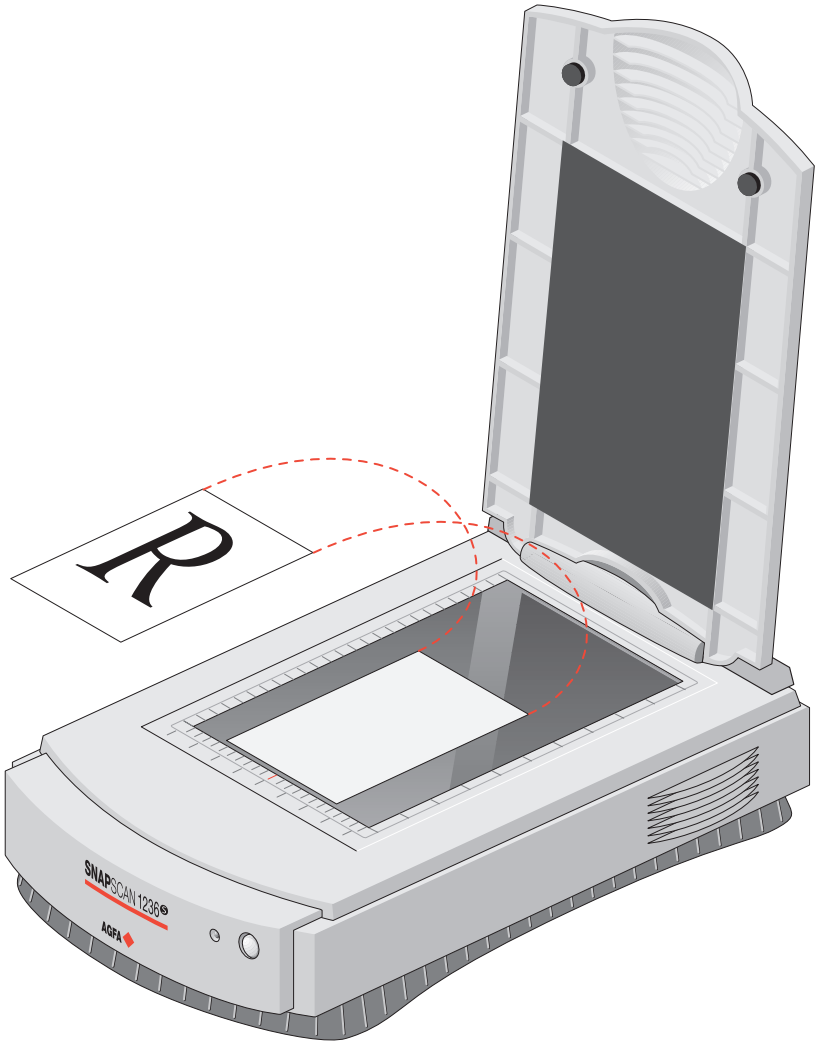
To install image editing software, insert the Corel CD-ROM and follow the instructions on your screen.

If the Installer Program does not appear automatically, use the Windows Explorer to start the installation program.

For a general overview of the possible workflows and to see how the software works together, please refer to the Navigation Map which is supplied with your scanner.

# Chapter 4 — Making your First Scan

1. Place a color photograph face down on the glass plate with the top side against the middle of the front ruler.




The optical performance of a CCD scanner is always best near the middle of the glass plate. However, the specified scan quality is guaranteed for the entire scan area.

If you put more than one original on the glass plate, position them as close to the center line as possible to optimize quality.

2. Lower the document cover of the scanner.

   ❖ Note: The adjustable document cover makes it possible to scan from books and magazines. When you put a thick original on the reflective glass plate, the document cover adapts to the thickness of the original.

3. Double-click the Agfa ScanWise application icon on your Macintosh computer or select Programs, Agfa ScanWise in the Start menu on your PC.
4. Select your scanner (if needed).
   - ❖ Note: This dialog only appears the first time you use ScanWise.
5. Click 'Yes' when the system asks to guide you.
6. Follow the steps described in the ScanWise Guide Me mode.

For more information refer to the ScanWise Application Guide and the Technical Support document (here you find all local Agfa support centers and other software suppliers). After installation you can access these documents.

- ❖ Note: If you encounter problems, please refer to the ScanWise Read Me file on your computer or to the Troubleshooting section in this Owner's Guide.

# Appendix A — Using the Transparency Option

This appendix describes the procedure for installing the transparency option.

# About your Transparency Option

If you want to scan transparencies such as slides, negatives or 35 mm framed originals, you can order a Transparency Option (TPO). This TPO consists of a transparency option cover, a template and three slide holders. The TPO is delivered ready to be mounted onto the scanner, in place of the document cover.

# Unpacking the Transparency Option

1. Open the packing box and take out all the items.
2. Check if you have the template and the slide holders and make sure that there is no visible defect.

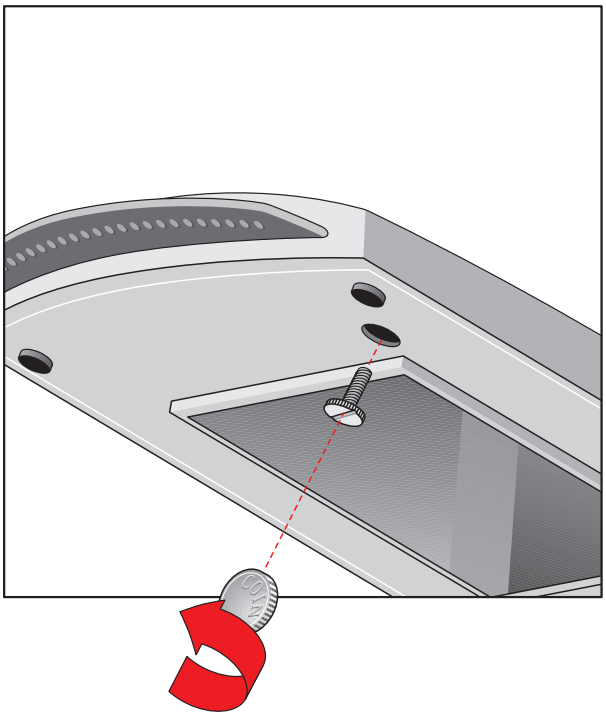
   If something is missing or damaged, contact your dealer.
3. Remove the plastic wrapping and the packing materials from the transparency option.

   ❖ Note: Save the packing materials to protect the transparency option during later transport.

# Unlocking the Transparency Option

Unlock the transparency option before connecting it to the scanner.

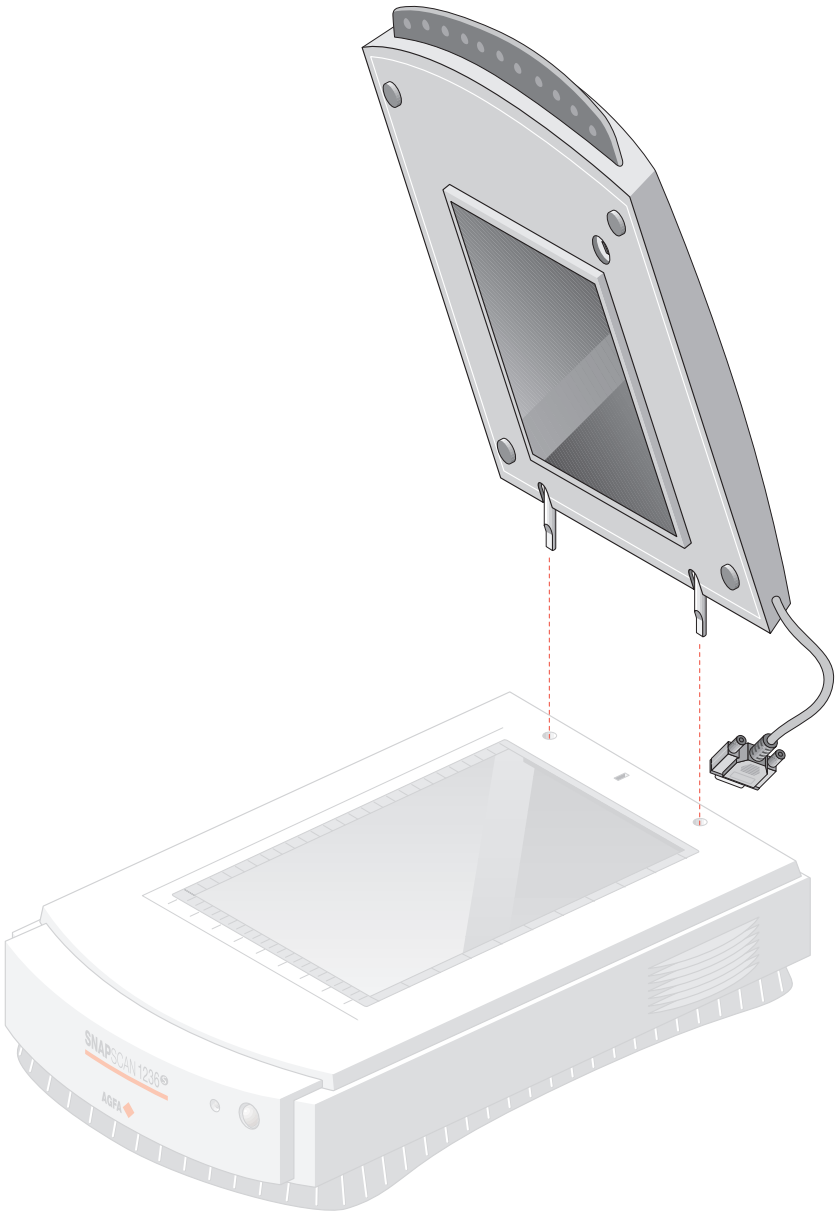
1. You will see the locking screw at the base of the transparency option.
2. Turn the screw counterclockwise and remove it. Keep it for later transport. Your transparency option is unlocked.



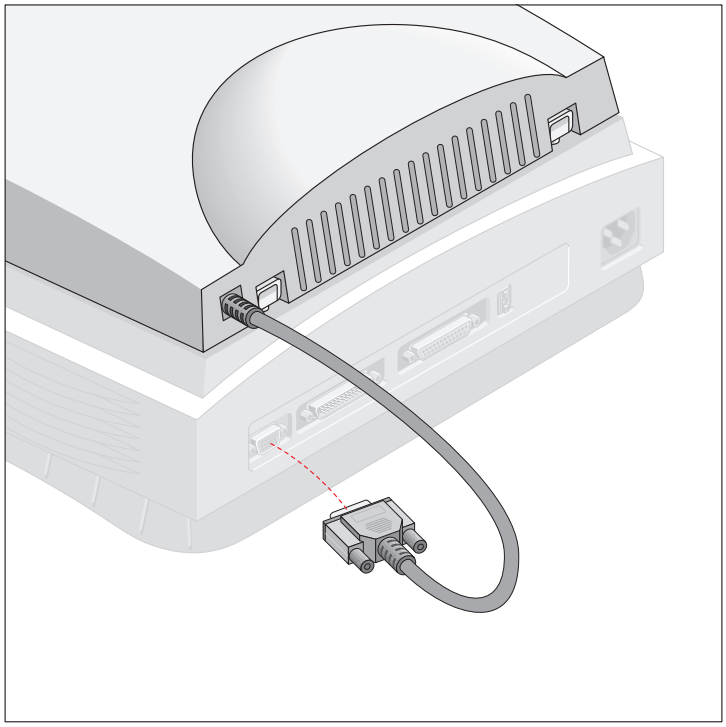
# Connecting the Transparency Option

1. Check if your scanner and your transparency option are properly unlocked.
2. Turn off your scanner.
3. Turn off your computer.
4. If the automatic document feeder is installed, disconnect it from your scanner.

5. Connect the transparency option as shown in the figure. Insert the guide pins into the holes originally used by the scanner's document cover.



6. Lower the transparency option.
7. Connect the 15-pin plug of the transparency option to the 15-pin socket at the rear of the scanner. Secure the connection by tightening the connector screws.



The transparency option is ready for use.

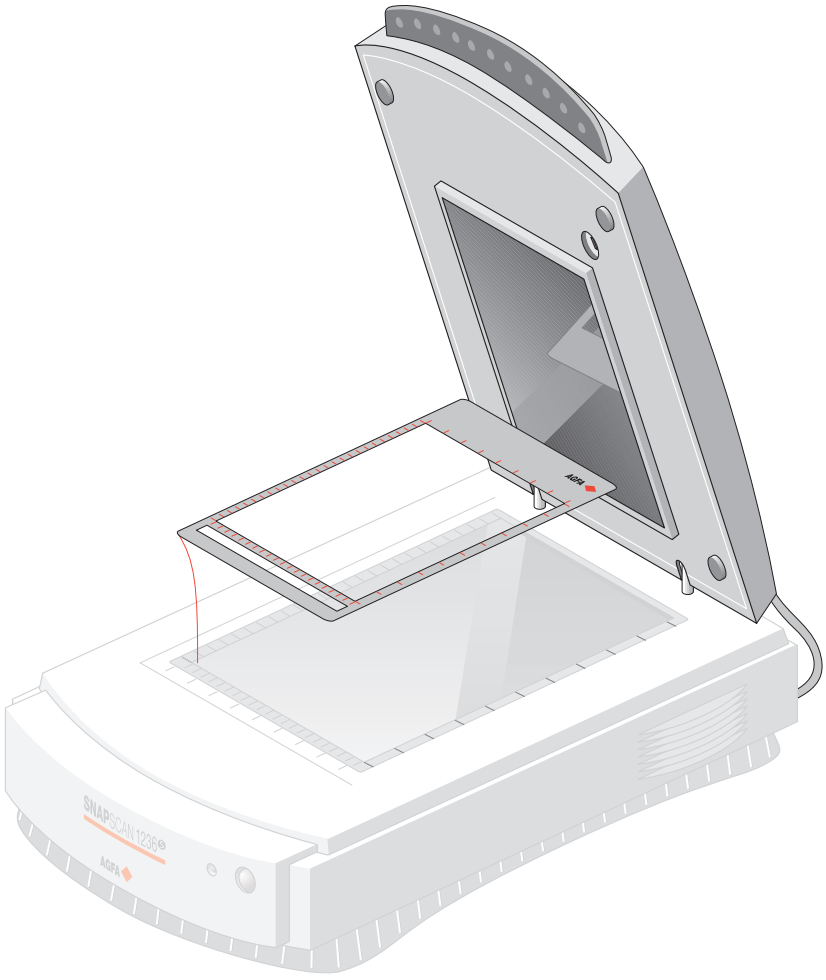
8. Turn on your scanner.
9. Turn on your computer.

# Placing Transparent Originals

**Caution:** Always use the template for scanning transparent originals. Make sure that the calibration slit is not covered by the transparent original and that it is clean.

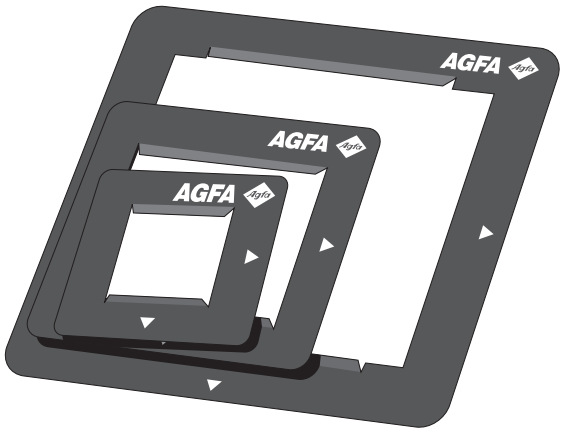
You need the transparency option to scan transparent originals.

1. Make sure the transparency option is properly installed.
2. Raise the transparency option.
3. Place the template on the glass plate of your scanner.




**Caution**: Make sure that the calibration slit faces the front of the scanner and is not covered by the transparent originals.

4. Put the original in one of the slide holders.




5. Place the slide holder on the glass plate with the emulsion down, that is, with the matte side down, and with its top side towards the calibration slit. This position guarantees the best quality.

   If you place more than one slide on the glass plate, position them as close to the center line as possible to optimize quality.


6. Lower the transparency option.

# Appendix B — Using the Automatic Document Feeder

This appendix gives information on the automatic document feeder and describes how to install, operate and maintain it.

# About your Automatic Document Feeder (ADF)

The automatic document feeder (ADF) option allows automatic scanning of up to 60 sheets. You can feed the sheets to be scanned from a stack in the ADF's input tray. The feeder leads them past the scanner's image sensor, and places the sheets in the feeder's output tray. The dimension of the sheets can be as large as 216 mm x 355 mm.

You simply replace the document cover by the ADF. The ADF uses the original document guide holes of your scanner. Thanks to spring plungers, the feeder can be easily lowered for auto-feed or lifted to put an original directly on the glass plate.

The ADF is a must if you have to scan a lot of documents. It is an efficient tool for multi-page scanning and OCR (Optical Character Recognition). With OCR you can scan text documents to use them in your word processor.

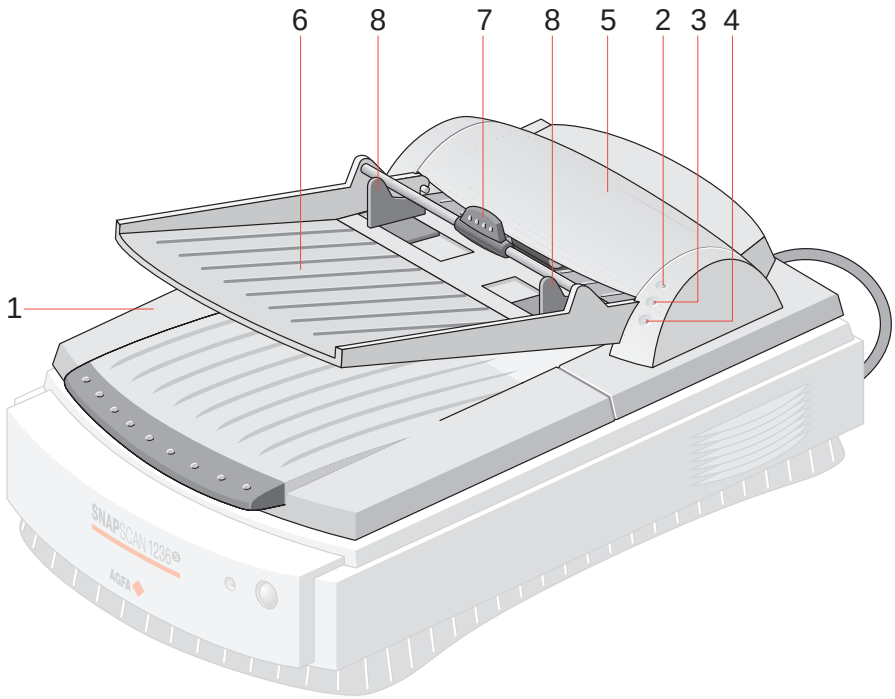
# Unpacking the Automatic Document Feeder

The ADF is delivered ready to be mounted onto the scanner.

1. Open the packing box and take out all the items.
2. Check the ADF to make sure that there is no visible defect.
   If there is a defect, contact your dealer.
3. Remove the plastic wrapping and the packing materials from the automatic document feeder.
   - Note: Save the packing materials to protect the automatic document feeder during later transport.

# Taking a Closer Look

Now that you have the automatic document feeder out of the box, take a closer look so that you become familiar with its parts.

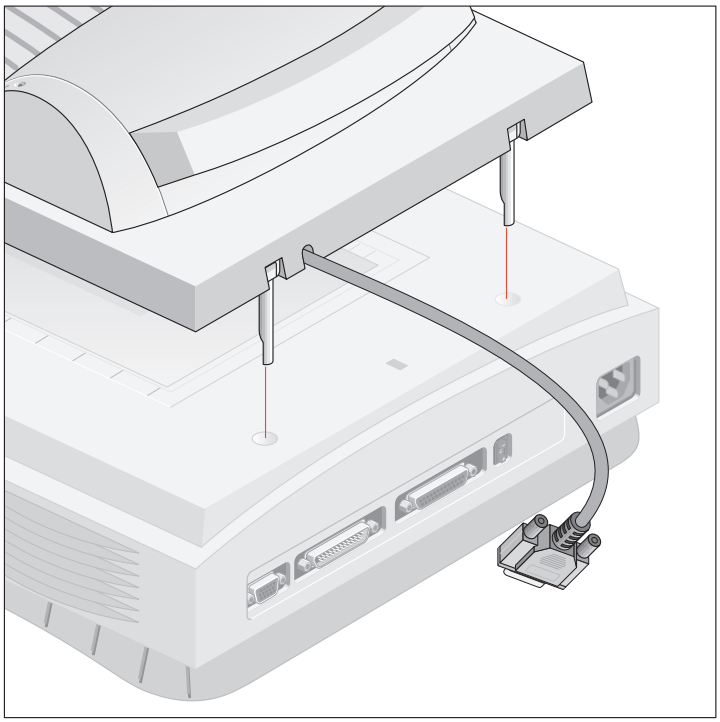



1. transportation module
2. power indicator (green)
3. original indicator (orange)
4. paper jam indicator (orange)
5. cover of the transportation module
6. paper tray
7. rotating arm
8. guide arms

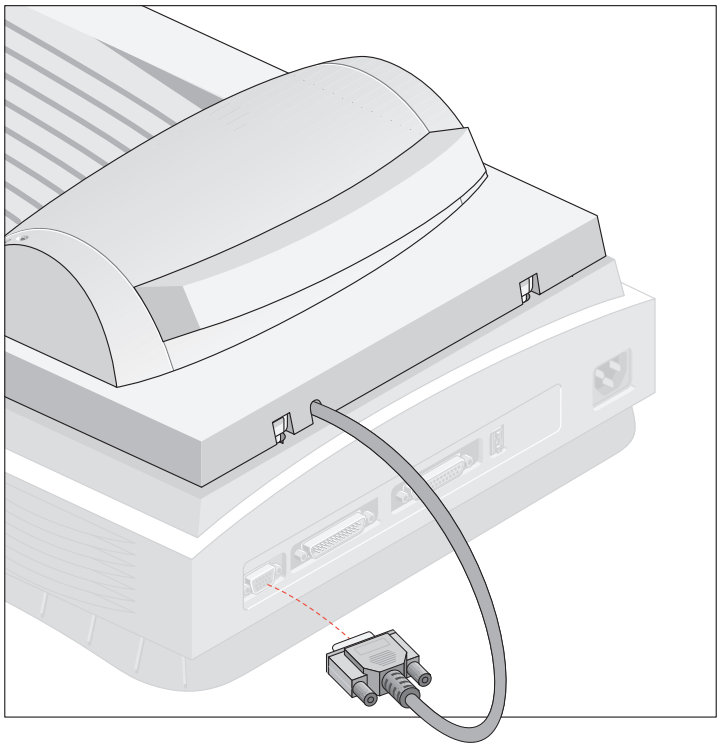
# Connecting the Automatic Document Feeder

You install the automatic document feeder as follows:

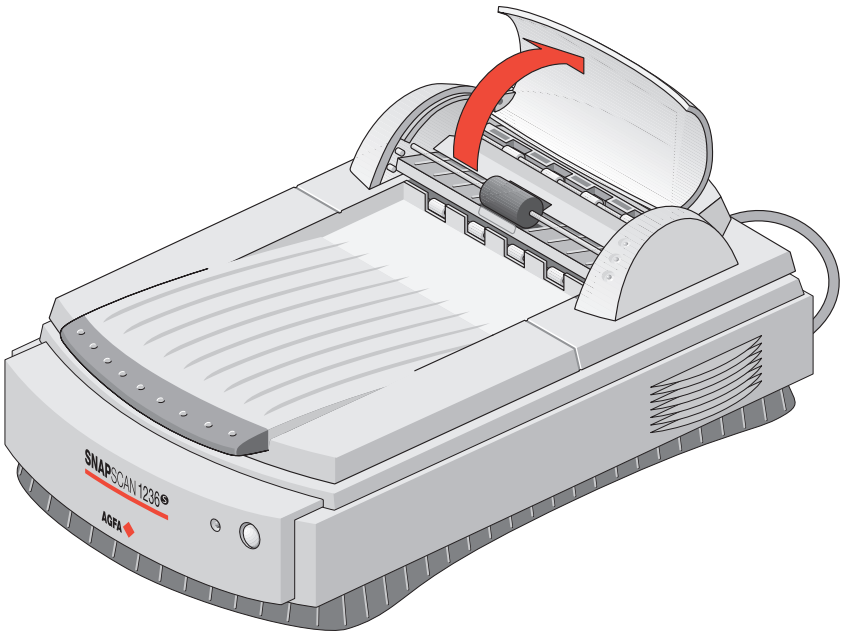
1. Check if your scanner is properly unlocked.
2. Turn off your scanner.
3. Turn off your computer.
4. If the transparency option is installed, disconnect it from your scanner.
5. Remove the document cover or the transparency option from the scanner.
6. Place the ADF on top of the scanner. Insert the guide pins into the holes originally used by the scanner's document cover.



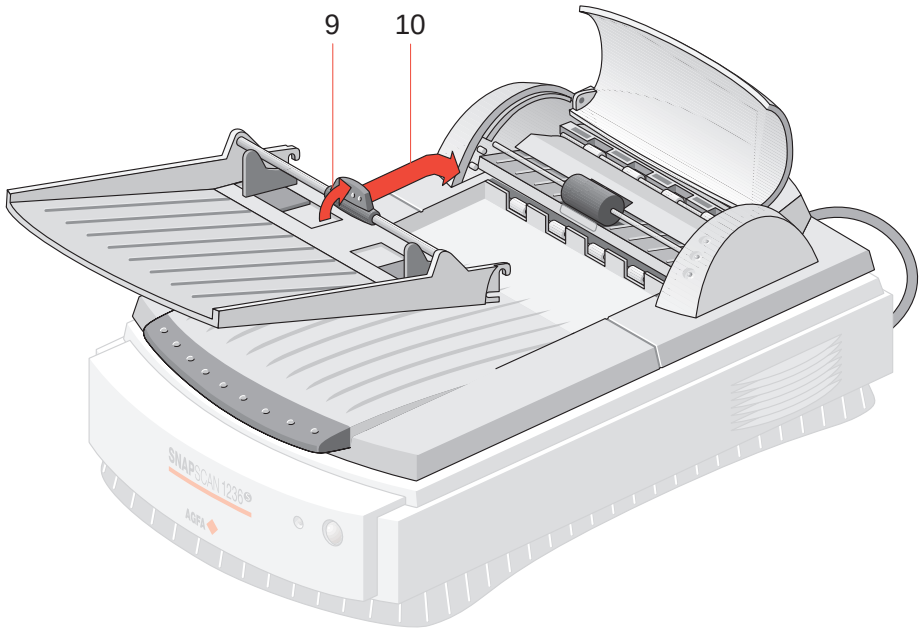
7. Connect the 15-pin plug of the automatic document feeder to the 15-pin socket at the rear of the scanner. Secure the connection by tightening the connector screws.



8. Open the cover of the transportation module.

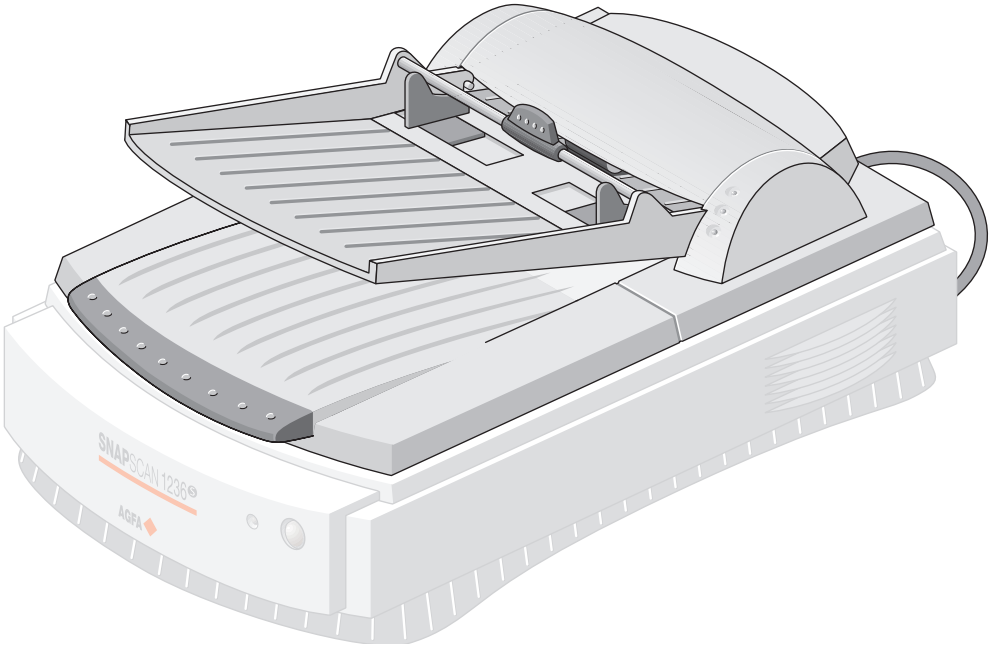


9. Lift the rotating arm of the paper tray.




10. Hook the paper tray into the transportation module.
11. Lower the rotating arm.

12. Close the cover of the transportation module.




13. Turn on your scanner.
14. Turn on your computer.

    Software like OmniPage Limited Edition makes it possible to convert the scanned sheets of text into most of the commercially used text file formats.

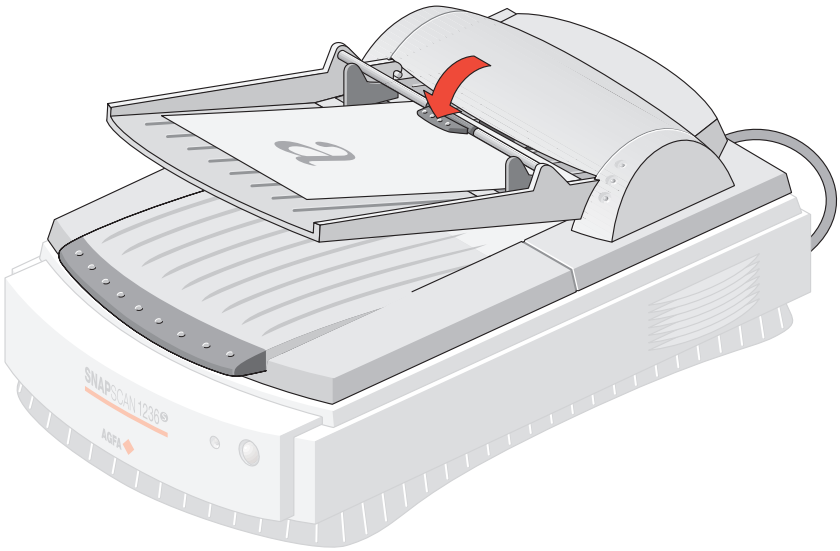
# Operating the Automatic Document Feeder

When the ADF is installed and the scanner is powered on, start up the Omnipage™ software. You can find the software on the Caere CD-ROM.

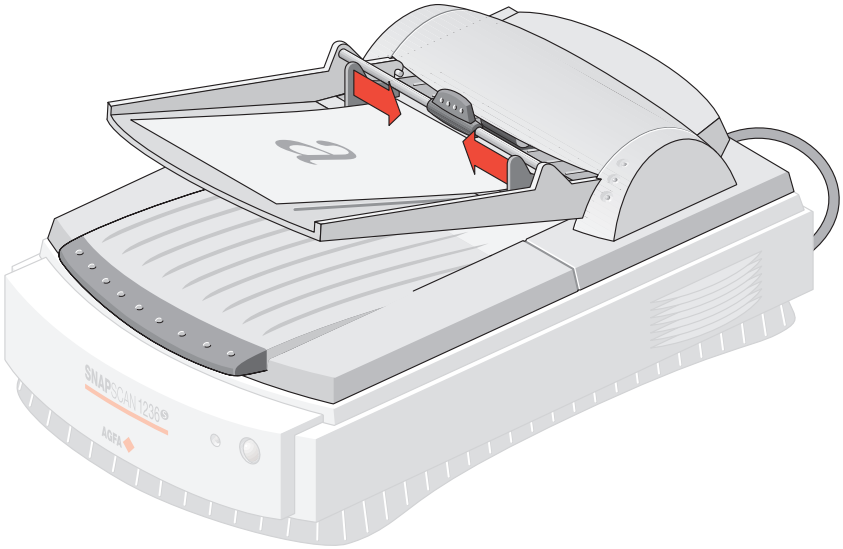
## Placing Text Pages in your Automatic Document Feeder

The purpose of the automatic document feeder is to scan up to 60 text pages fast and without interruption. Software like OmniPage Limited Edition® or other OCR (Optical Character Recognition) software makes it possible to convert them into most of the commercially used text file formats.

1. Make sure your automatic document feeder is properly installed.
2. Lower the automatic document feeder.
3. Lift the rotating arm of the paper tray.
4. Put a pile of maximum 60 text pages on the paper tray of your automatic document feeder. Make sure the text is facing up.
5. Lower the rotating arm of the paper tray.



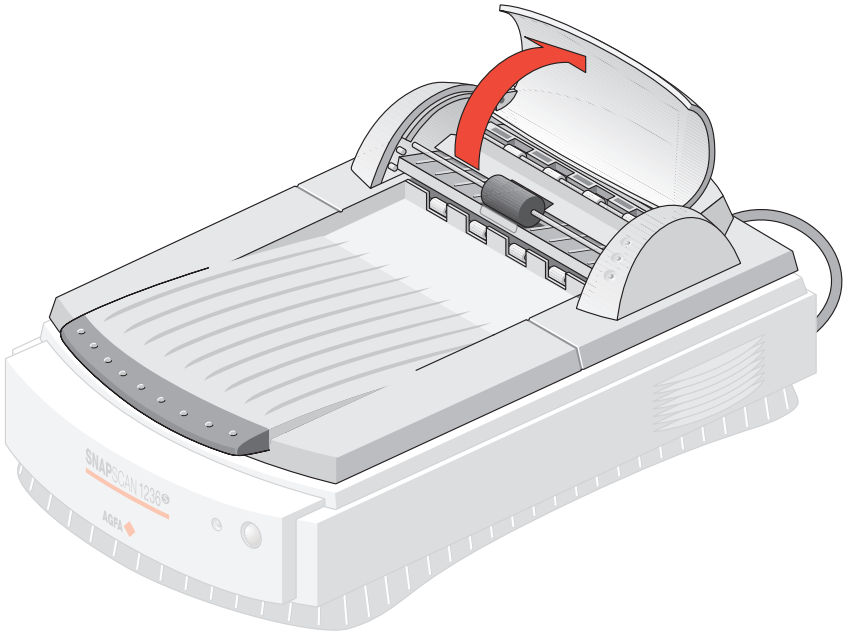
6. Use the two guide arms to align the paper in the center.



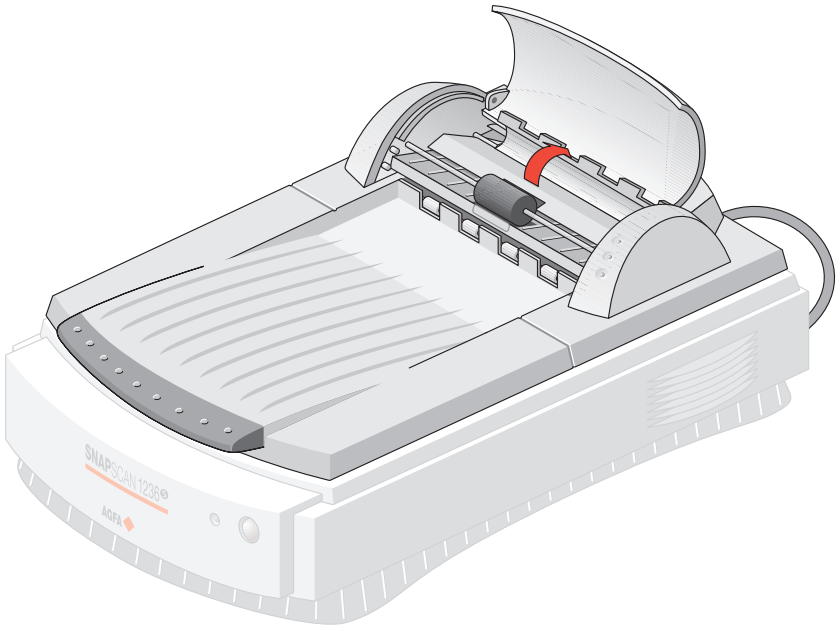
## Correcting Paper Jams

To remove jammed pages:

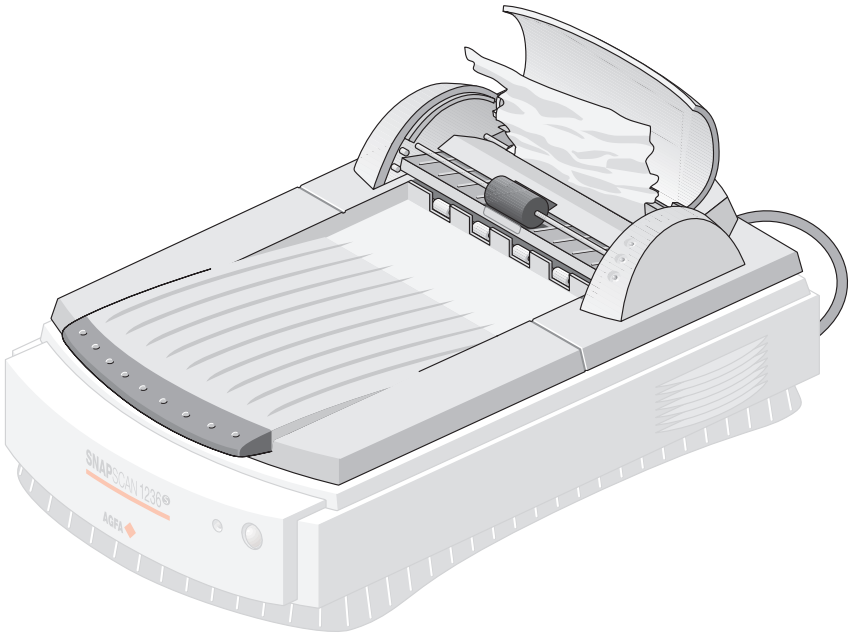
1. Open the cover of the transportation module.



2. Lift the paper-turn-around plate.



3. Grasp both free corners of the jammed sheet and pull it out slowly.



4. Lower the paper-turn-around plate. Make sure that the paper-turn-around plate is properly closed.
5. Close the cover of the transportation module. Make sure that it is properly closed.

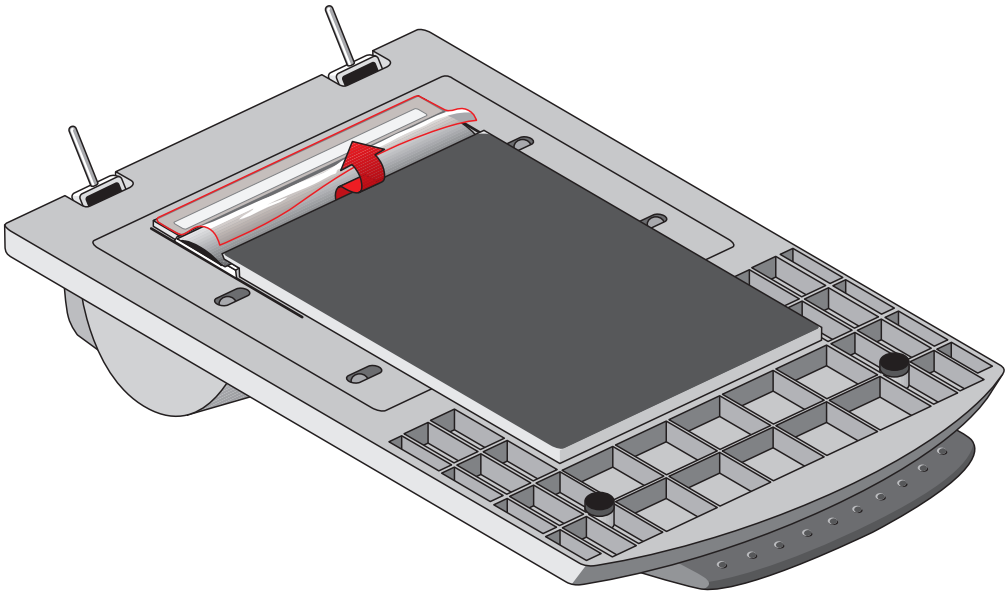
# Cleaning the Automatic Document Feeder

## Cleaning the Transparent Guide Flap

The guide flap on the underside of the ADF keeps documents in the correct scanning position and guides them into the output tray after scanning. To prevent printing ink and other contaminants from accumulating on the flap and interfering with image quality, wipe it periodically with an ink-free cloth or moistened cotton swab. Clean it on both sides.

To clean the transparent guide flap inside:

1. Carefully open the transparent guide flap on the bottom of the ADF. Do not remove the transparent guide flap.



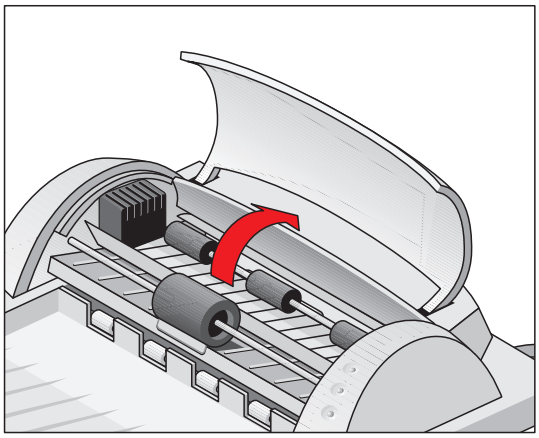
2. Carefully close the transparent guide flap after cleaning.

❖ Note: If you need replacement guide flaps, you can order them at your local Agfa dealer.

# Roller Cleaning

Prolonged use of the ADF may result in an accumulation of ink and other contaminants on the feeder's input roller. This reduces the efficiency of the roller. Check for dirt on the roller if the ADF starts to have trouble pulling paper through properly. The input roller should be cleaned periodically using an ink-free cloth or moistened cotton swab .

- Note: Do not attempt to turn the roller while cleaning it. This may damage the ADF's drive mechanism.



# Appendix C — Troubleshooting

This appendix gives solutions for some common problems you may come across when starting up or using your SnapScan 1236s.

## General Problems

### The scanner or transparency option lamp flickers, dims, or fails to come on.

- The cold cathode lamp of your scanner or the fluorescent daylight lamp of the transparency option needs to be changed. Contact your dealer or local Agfa support center.

### The scanner does not start up.

- Contact your dealer or local Agfa support center.

### The scanner makes an unusual noise and nothing moves under the glass plate when you turn on the scanner.

- The scanner was not properly unlocked. Immediately turn off the scanner and unlock it properly. Retry scanning. If this does not help, contact your dealer or local Agfa support center.

### The power and status indicator on the scanner's operating panel starts blinking at a higher frequency after the power-up sequence (= 15 seconds).

- A malfunction has been detected by the scanner.
- Check if you have unlocked the scanner.
- Turn off the scanner and turn it back on.
- If this does not help, please contact your dealer or local Agfa support center.

### The power and status indicator fails to light up.

- Verify the power connection to the scanner.
- Check if the power switch is turned on.
- If you are sure that the scanner is powered on, contact your dealer or local Agfa support center.

### The computer does not start up. If your computer is a Macintosh, a little floppy disk with a question mark appears on your screen.

Your computer cannot find its hard disk due to a conflict with the SCSI ID numbers of the devices you have attached.

- Disconnect all SCSI devices (except the start-up disk) and connect them one by one, beginning with the scanner, to identify the device that causes the problem (turn off all devices before connecting or disconnecting them).

### The scanner software cannot find the scanner.

After starting ScanWise, a message appears telling you that no scanner is connected, although the scanner is connected.

- Maybe you did not wait long enough for all SCSI devices to start up, before you turned on your computer. Try restarting your computer.
- Verify the power connection to the scanner.
- Check if the power switch is turned on.
- Check the Installation procedure, to see if you followed the instructions. Pay special attention to the setting of the SCSI ID number.
- Verify the terminators and the cables. If there is a problem with a cable or with the SCSI board in your computer, contact your dealer.
- Disconnect all SCSI devices and connect them one by one, beginning with the scanner, to identify the device that causes the problem.

### The scanner reports errors during scanning.

- Check if you have connected a SCSI terminator. If this can not be the problem, please contact your dealer.

❖ Note: If you encounter other problems during or after installation, please refer to the ReadMe file on your computer.

### The computer screen displays scanner calibration error.

- The calibration slit is covered by your transparent original. You did not use the template or you used it incorrectly. This can only happen when you are in transparency mode.

# Installation Problems for Windows 95 and 98

These examples cover scanner installation with an AGFA supplied Adaptec 150X SCSI controller. Please refer to the ScanWise ReadMe file for detailed information on installing AGFA Scanners with other SCSI boards.

In order to install your scanner correctly it is important to follow the correct sequence:

1. Installing the ISA SCSI card.
2. Installing the SCSI driver.
3. Installing the Scanner Software.
4. Connecting the scanner to your PC.

All drivers for the 150X are embedded in the Windows operating system. Windows detects the board during startup and prompts for its installation media to install the drivers. Insert the requested Windows installation media and follow the instructions on your screen.

If you do not have the Windows installation media available or if your Windows version does not contain the correct drivers for the 150X, you can also refer to the \English\Utility\Adaptec directory on the AGFA ScanWise CD-ROM. The driver name is SPARROW.MPD.

## How to Install the 150X as Second SCSI Controller.

It is possible that your system already contains an on-board SCSI controller or that there is already a SCSI controller present (for example on a SoundBlaster card).

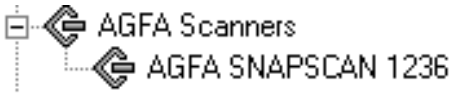
Because Windows 95 and Windows 98 incorporate their own SCSI layer, you can normally make both controllers operational without any problem. Make sure that you do not cause resource conflicts between both SCSI controllers.

Since ScanWise uses STI (Windows 98) or ASPI (Windows 95) to communicate with AGFA scanners, you can connect the scanner to an existing SCSI controller, provided that this card is supported by the operating system. In this case there is no need to install the Agfa supplied SCSI card. Connect the scanner according to the instructions that came with the original SCSI board and pay special attention to termination and cabling.

## How to Verify the Installation.

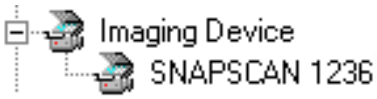
To check if both the SCSI card and the scanner are detected properly, carry out the following instructions:

1. Choose Control Panel in the Settings list box via the Start menu.
   The Control Panel window appears.
2. Double-click the System icon.
   The System Properties dialog box appears.
3. Select the Device Manager tab sheet.
4. If you are a Windows 95 user click the AGFA Scanners icon.
   The scanner name appears if it is detected properly.

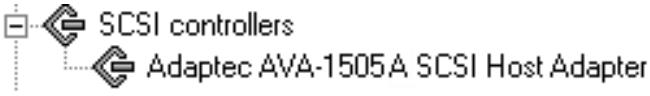



   If you are a Windows 98 user click the Imaging Device icon.

   The scanner name appears if it is detected properly.




5. Click the SCSI controllers icon.
   The name of the SCSI card appears if it is detected properly.




## The SCSI Host Adapter Is Not Detected.

If the message 'The SCSI Host Adapter is not detected' appears, different solutions are possible:

- Check if the SCSI board is firmly seated and secured in an ISA expansion slot.
- If you have a plug-and-play system, try setting the ISA Plug and Play mode to 'disable' in the Advanced Configuration Options of the SCSI*Select* utility on the Agfa ScanWise CD-ROM.
  Your host adapter must be configured manually. If necessary you can use the jumper on the host adapter to modify the I/O Port Address. Please refer to the included documentation of the SCSI host adapter. It is recommended that you mark the used IRQ as 'Used by ISA card' in your BIOS setup.
  This procedure is also recommended when installing the 150X board in a PnP system that contains legacy (non plug-and-play) cards.

  ❖ Note: For any questions on your system CMOS setup, refer to your system manual or consult your system manufacturer.

- If you do not have a plug-and-play system, the message indicates that there is a resource conflict: other devices are probably using the same I/O Port Address and/or IRQ. Change these settings one at a time with the jumper on the host adapter and the SCSI*Select* utility.

  - Note: A useful tool to isolate resource conflicts is the Windows 95 Device Manager (for example Print -> All devices and system summary).

## ScanWise Does Not Find a Scanner.

If the message 'ScanWise does not find a scanner' appears, different solutions are possible:

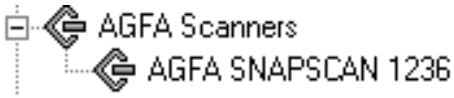
- Check if the scanner is powered. If you switched on the scanner after Windows was booted, you have to carry out one of the following steps:

  - Reboot your computer.

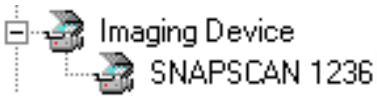
  - Select the SCSI controller in the Device Manager and click the Refresh button.

- Check if the SCSI cable is properly connected.

- Use the Device Manager to check if the scanner is visible on the SCSI bus. Your scanner should be listed under AGFA Scanners (Windows 95) or under Imaging Device (Windows 98). If this is not the case, check under Other Devices and Scanner. If you cannot locate the scanner, there is a SCSI problem. Verify the installation of the 150X SCSI board, the drivers and other components.



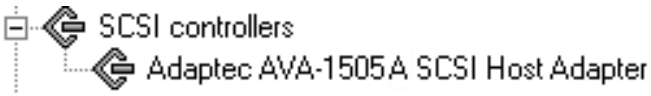

Windows 95




Windows 98

- Check if the host adapter and the scanner have different SCSI ID's. Normally the SCSI controller is configured at ID 7. Your scanner is preset to ID 2.

- Check for device driver problems and/or resource conflicts. Windows indicates this by a yellow exclamation mark next to the driver in the System Properties dialog box:




  - Note: Select the driver and choose Properties to get more information. Windows 95 reports resource conflicts if the information is available.

- Some OEM versions of Windows do not contain the correct drivers for the Adaptec 150X SCSI board. If you are not sure of the driver, install the drivers from the Agfa ScanWise CD-ROM or download the latest drivers from the Adaptec website.
  Windows drivers are located in the \English\Utility\Adaptec directory on your CD. Update your current MPD drivers with these drivers. Follow the procedure in the README.TXT file in this directory.
  You can download WIN95MPD.EXE from http://www.adaptec.com. This is a self-extracting archive that contains the most recent SCSI mini-port drivers for your interface card.

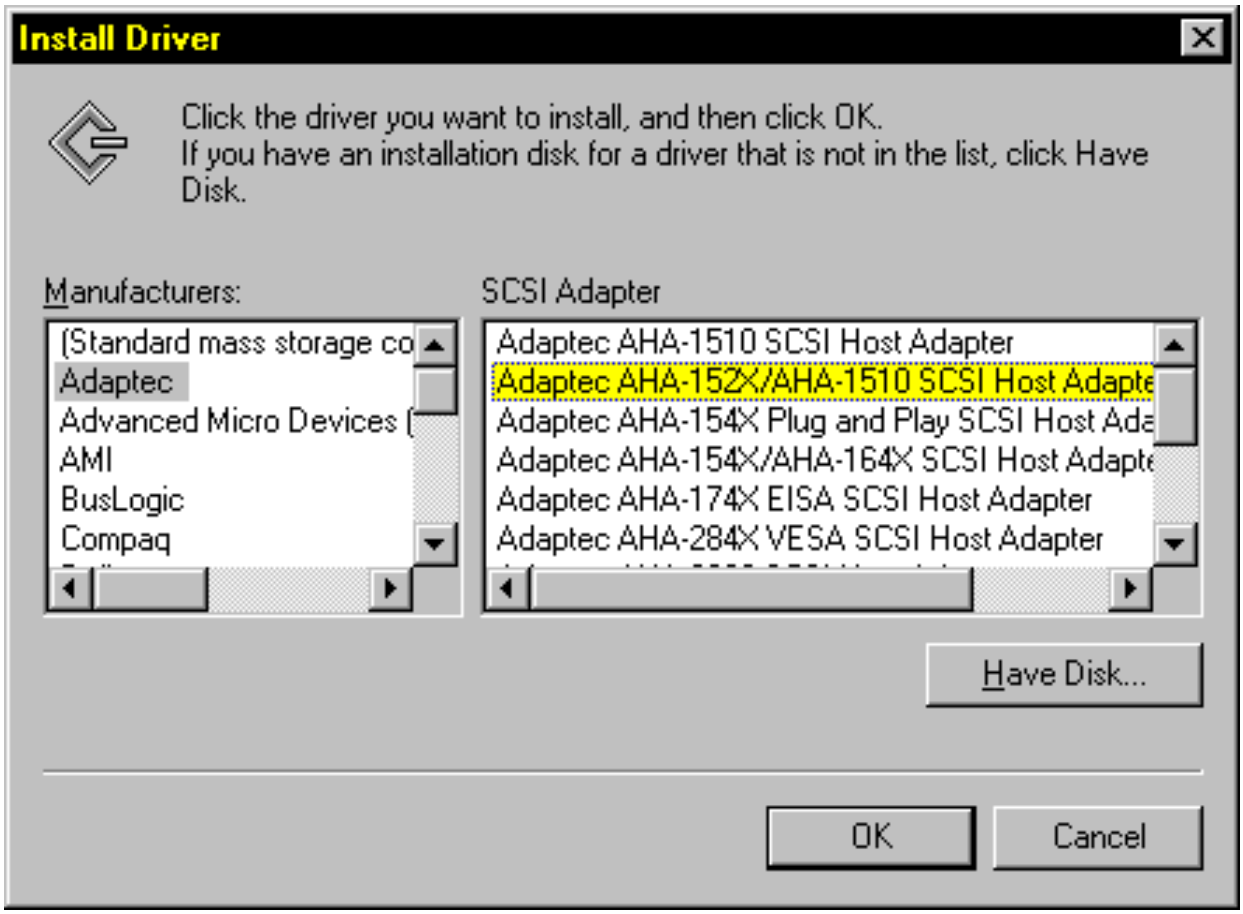
## How to Solve Erratic Scanner Behaviour.

Some SCSI related installation procedures might overwrite your current SCSI mini-port drivers with outdated drivers. This causes erratic scanner behavior that only can be solved by reinstalling more recent versions of the mini-port drivers. These drivers can be found on the AGFA ScanWise CD-ROM in the \English\Utility\Adaptec directory. Follow the instructions in the README.TXT file in this directory.

# Installation Problems for Windows NT 4.0

Windows NT is not a plug-and-play operating system. Check for possible resource conflicts before you install the board. The 150X is by default configured on IO Address 140H and IRQ 10. If your system does not have a PnP BIOS, you can modify these settings with the SCSI*Select* utility on the AGFA ScanWise CD-ROM.

All drivers for the 150X are included with Windows NT. However, the board is not listed in Windows NT's list of Adaptec SCSI controllers. Use the Windows NT procedure to add a SCSI controller and choose the driver for the Adaptec 1510/152X SCSI controllers instead (SPARROW.SYS). You need the Windows NT installation media to install this board. There are no Windows NT drivers provided on the Agfa ScanWise CD-ROM.




### How to Install the 150X as Second SCSI Controller.

It is possible that your system already contains an on-board SCSI controller or that there is already a SCSI controller present (for example on a SoundBlaster card).

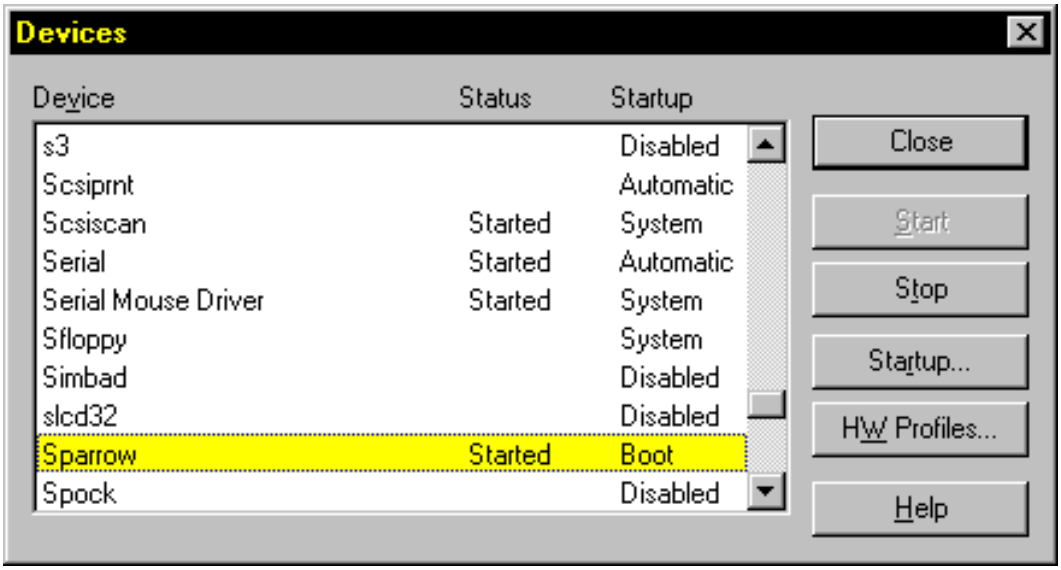
Because Windows NT incorporates its own SCSI layer, you can normally make both controllers operational without any problem. Make sure that you do not cause resource conflicts between both SCSI controllers.

Since ScanWise uses ASPI or the Windows NT SCSI layer to communicate with AGFA scanners, you can connect the scanner to an existing SCSI controller, provided that this card is supported by the operating system. In this case there is no need to install the Agfa supplied SCSI card. Connect the scanner according to the instructions that came with the original SCSI board and pay special attention to termination and cabling.

## The SCSI Card Is Not Detected.

If the message 'The SCSI Host Adapter is not detected' appears, different solutions are possible:

- Check if the SCSI board is firmly seated and secured in an ISA expansion slot.
- Windows NT is not a plug-and-play operating system. Check the NT installation tips on how to do this.
- If you get error messages while starting Windows NT, check if the device driver is running. Double-click the Devices icon in the Control Panel window and check the status of the Sparrow device.



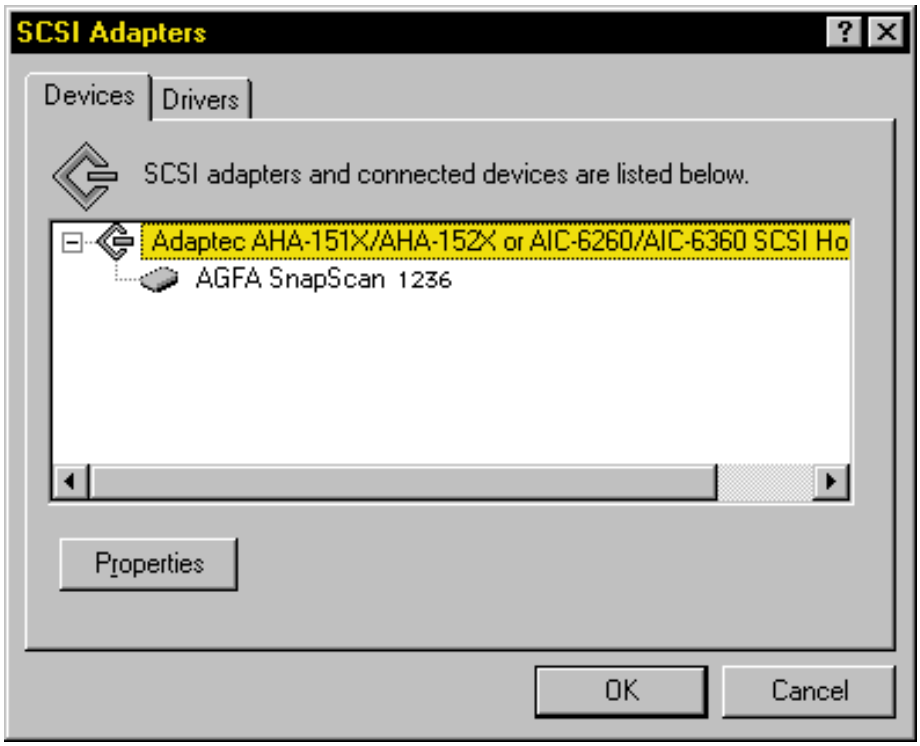

- If you have a plug-and-play system, try setting the ISA Plug and Play mode to 'disable' in the Advanced Configuration Options of SCSI*Select*.
  Your host adapter must be configured manually. If needed, you can use the jumper on the host adapter to modify the I/O Port Address. Please refer to the included documentation of the SCSI host adapter. It is recommended that you mark the used IRQ as 'Used by ISA card' in your BIOS setup.
  - Note: This procedure is also recommended when you install the 150X board in a PnP system that contains legacy (non Plug and Play) cards.
  - Note: For any questions on your system CMOS setup, refer to your system manual or consult your system manufacturer.
- If you do not have a plug-and-play system, the message indicates that there is a resource conflict: other devices are probably using the same I/O Port Address and/or IRQ. Change these settings one at the time with the jumper on the host adapter and the SCSI*Select* utility.

- In order to run SCSI*Select*, it may be necessary to make a bootable MS-DOS floppy with this utility. Copy all files in the \English\Utility\150X directory to this floppy and boot your system with it.

## ScanWise Does Not Find a Scanner.

- Check if the scanner is powered. If you switched on the scanner after Windows NT was booted, you need to reboot your machine.
- Check if the SCSI cable is properly connected.
- Check if the scanner is visible on the SCSI bus:

  1. Choose Control Panel from the Settings sub menu via the Start menu.
     The Control Panel window appears.
  2. Double-click the System icon.
     The System Properties dialog box appears.
  3. Select the Device Manager tab sheet.
  4. Open the SCSI Adapters icon.




  If the scanner is not visible, there is a SCSI problem, a driver problem or a malfunctioning component. Verify the installation of the 150X SCSI board.

- Check if the host adapter and the scanner have unique SCSI ID's. Normally the SCSI controller is configured at ID 7. Your scanner is preset to ID 2.
- Check for device driver problems and/or resource conflicts in the Properties of the SCSI controller. If the controller is not installed properly, you get notifications of a failure during startup. Double-click the Devices icon in the Control Panel window and check the status of the Sparrow device.

# Appendix D — Technical Information

This appendix provides some technical information about your SnapScan, about the transparency option and about the automatic document feeder.



Technical specifications are subject to change without notice.

# Specifications

| | |
|---|---|
| **Scanner type:** | Desktop, flatbed, one pass, Tri-lineair CCD |
| **Maximum resolution:** | |
| - optical: | 600 ppi horizontal x 1200 ppi vertical |
| - through interpolation: | 9600 ppi horizontal x 9600 ppi vertical |
| **Sample depth:** | 12 bit per color (internal) |
| **Scanning speed:** | |
| - line-art: | 3.5 ms / line |
| - gray: | 6.5 ms / line |
| - color reflective | 7 ms / line |
| **Scanning area:** | |
| Maximum | 216 x 297 mm (8.5 '' x 11.7 '') |
| **Lamp:** | cold cathode |
| **Power-on to ready time:** | ≤ 15 seconds |
| **Power supply:** | |
| - voltage: | 100V to 240V |
| - frequency: | 47 Hz to 63 Hz |
| - power consumption | >45 W |
| **Dimensions:** | |
| - length: | 530 mm |
| - width: | 375 mm |
| - height: | 140 mm |
| - weight: | 5.6 kg |
| **Options:** | Transparency option<br>Automatic document feeder |
| **Interface:** | SCSI-2<br>1 x 25-pins plug<br>1 x 25-pins socket |
| **Transmission speed:** | 2 Mbyte/s |
| **Environmental specifications:** | |
| - operating temperature: | +10 °C to +40 °<br>(+50 to +104 degrees Fahrenheit) |
| - relative humidity: | 20% to 85% RH |
| - surrounding space: | 10 cm on every side |

# Transparency Option Specifications

| | |
|---|---|
| **System:** | Moving light source |
| **Resolution:** | 600 ppi horizontal x 1200 ppi vertical |
| **Scan area:** | 203 mm x 254 mm (8 ‘’ x 10 ‘’) |
| **Lamp:** | fluorescent daylight |
| **Power supply:** | from the scanner |
| **Interface:** | 15-pin cable with connector to scanner |
| **Dimensions:** | |
| - length: | 450 mm |
| - width: | 330 mm |
| - height: | 65 mm |
| - weight: | 2.2 kg |
| **Environment:** | |
| - operating temperature: | +10 °C to +40 °C (+50 to +104 degrees Fahrenheit) |
| - relative humidity: | 20% to 85% RH |
| - surrounding space: | 10 cm on every side |
| **Connection with scanner** | External connection: 15 pin sub D |

# Automatic Document Feeder Specifications

| | |
|---|---|
| **Number of originals in document tray:** | |
| **-** minimum | 1 |
| **-** maximum | 60 |
| **Original Document size:** | |
| - minimum: | 100 mm (W) x 150 (H) mm |
| - maximum: | 216 mm (W) x 355 (H) mm |
| **Document skew:** | Max ≤1 % |
| **Connector:** | 15-pin cable with connector to scanner |
| **Dimensions:** | |
| - length: | 465 mm |
| - width: | 330 mm |
| - height: | 130 mm |
| - weight: | 3.5 kg |
| **Power supply:** | from the scanner |
| **Operating conditions:** | |
| - temperature: | +10 °C to +40 °C (+50 to +104 degrees Fahrenheit) |
| - relative humidity | 20 % to 85 % |
| **Connection with scanner** | External connection |

# Appendix E — SnapScan Regulation Compliance

# Safety Regulations

SnapScan and its options are designed to comply with:

- UL 1950-D3
- CSA C22.2 No. 950 - M89 D3
- VDE 0805
- IEC 950
- GS approved
- EN 60950

## UL Safety Statement

The SnapScan is suited for indoor use only. Do not use them outdoors.

For the reason of safety, besides the personal maintenance mentioned in this operation manual, do not try to remove any mechanical parts or any electronic devices. If your scanner needs service, our dealer and service offices are available to help you.

## TÜV: Wichtige Sicherheitshinweise

1. Bitte Lesen Sie sich diese Hinweise sorgfältig durch.
2. Um eine Beschädigung des Gerätes zu vermeiden sollten Sie nur Zuberhörteile verwenden, die vom Hersteller zugelassen sind.
3. Das Gerät ist vor Feuchtigkeit zu schützen.
4. Bei der Aufstellung des Gerätes ist auf sicheren Stand zu achten. Ein Kippen oder Fallen könnte Verletzungen hervorrufen. Verwenden Sie nur sichere Standorte und beachten Sie die Aufstellhinweise des Herstellers.
5. Die Belüftungsöffnungen dienen zur Luftzirkulation die das Gerät vor Überhitzung schütz. Sorgen Sie dafür, daß diese Öffnungen nicht abgedeckt werden.
6. Die Netzanschlußsteckdose muß aus Gründen der elektrischen Sicherheit einen Schutzleiterkontakt haben.
7. Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät gelangen. Dies könnte einen Brand bzw. elektrischen Schlag auslösen.
8. Öffnen Sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von authorisiertem Servicepersonal geöffnet werden.
9. Die Steckdose sollte nahe dem Gerät und leicht zugänglich sein.

# Electromagnetic Compatibility

SnapScan is designed to comply with:

- Emission EN55022, class B
- Immunity IEC 801-2, IEC 801-3, IEC 801-4
- 47 CFR, part 15, subpart B, class B

## Federal Communications Commission Radio Frequency Interference Statement

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

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

## Industry Canada Class A and B Label Requirements

This Class [select A or B] digital apparatus meets all the requirements of the Canadian Interference Causing Equipment Regulations.

Cet appareil numérique de la classe [A/B] respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.