

AV100
series
Image Scanner
User's Manual

Version 2.0

(Doc. No. 250-0002-0)

AVISION INC.

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- * Reorient or relocate the receiving antenna.
- * Increase the separation between the equipment and receiver.
- * Connect the equipment to an outlet on a separation or dedicated circuit.
- * Consult the dealer or an experienced radio/TV technician for help.

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Avision Inc. warrants all parts and products under a purchase agreement to be free from defects in workmanship and material for a period of 12 months from the date of shipment of the parts and products. This warranty does not cover normal wear and tear, consumable items, software and minor items, or parts and product's failure caused by:

- a) accident**
- b) abuse.**

The liability of Avision Inc. under the warranty is solely to repair or replacement with equivalent articles. This warranty is conditioned upon:

- a) Avision Inc. being notified in writing by Buyer's options within one month after discover of defects; It is necessary for Buyer to declare the Series No. of the defective products to Avision's personnel.**
- b) Buyer obtain a RMA No. from Avision service center.**
- c) The returned articles shall accompany this RMA report.**
- d) In this returning of defective articles to Avision, transportation charges must be prepaid by Buyer.**

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Avision may inspect the returned articles within a reasonable time after receiving the RMA articles. Avision's examination of such articles(if return to Avision Inc.) is to disclose its satisfaction that such defects were not caused by misuse, improper maintenance, improper installation, accident, or unauthorized repair or alteration.

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1. Introduction

Congratulations on the purchase of your new Avison AV100 series sheet-fed image scanner. Avison Inc. is one of the leading company in the world to develop the high performance sheet-fed scanner.

Before you install and operate the new scanner, please take a few minutes to read through the manual. It provides you the proper instruction on how to unpack, install, operate and maintain the scanner.

Figure 1-1 Illustrated how the scanner is packed, you can check all items according to your check list.

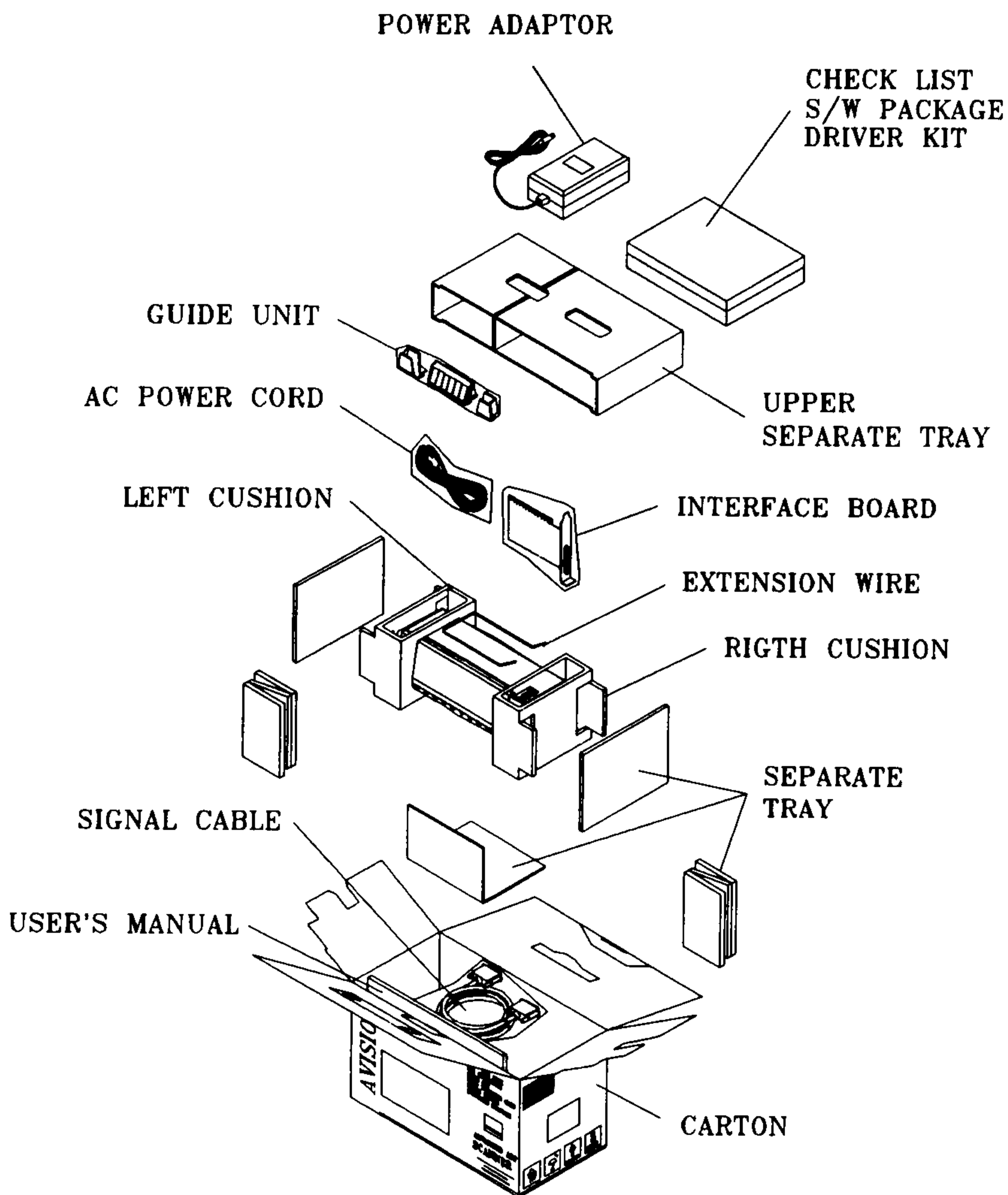


Figure 1-1 Scanner packing

2. Scanner Installation

Precautions

- * Keep the scanner out of the sun. Direct sun or excessive heat may damage the unit.
- * Do not install the scanner in a humid or dusty place.
- * Be sure to use the proper AC power source.
- * Install the scanner securely on an even, flat surface. Tilted or uneven surfaces may cause mechanical or paper feed problems.
- * Retain scanner box and packing material for shipping purposes

2.1..Scanner Packing Release and Set up

Please unpack the scanner carefully, and check the contents against the *Checklist*. If any items are missing or damaged, please contact your dealer.

Installation for slide guide, paper guide and extension wire.

1. Open the front door by slightly pulling it away from the unit for few inches.
2. Insert the paper guide onto the center notch that are located it on top of the unit.

3. Insert the two slide guide to its left and right of the paper guide
When properly installed, the guides should move freely from side to side.
4. Insert the two ends of the extension wire into the small holes on both of the paper guide.
5. Close the front door.

SCSI interface scanner:

When you have several device on a SCSI chain, you may need to adjust the SCSI ID selector setting on the back of the scanner. This setting assigns a specific "device ID" to the scanner. If the assignment conflicts with an existing SCSI device, please select a new ID.

ID 8 and ID 9 are not used by Avison's scanner. (Note: Usually ID 0 is assigned to an internal hard drive, and ID7 is assigned to SCSI adapter or host)

Preparation for document loading

Standard paper should feed easily through the scanner. To prevent occasional jams when automatically feeding multiple documents, fan the paper several times before loading.

Document Feeding

While scanning documents, face down the scanning material onto the paper guide and extension wire. Align the two slide guides along the edges of the document. (Figure 2-2)

Scan Small Documents

To scan small documents, such as business cards, reverse the positions of the slide guides to accommodate the smaller document width and hand feed the document. (Figure 2-3)

1. Open the front door of the scanner.
2. Remove the two slide guides, reverse positions and reinsert(left guide goes to the right; right guide goes to the left).
3. Close the front door.

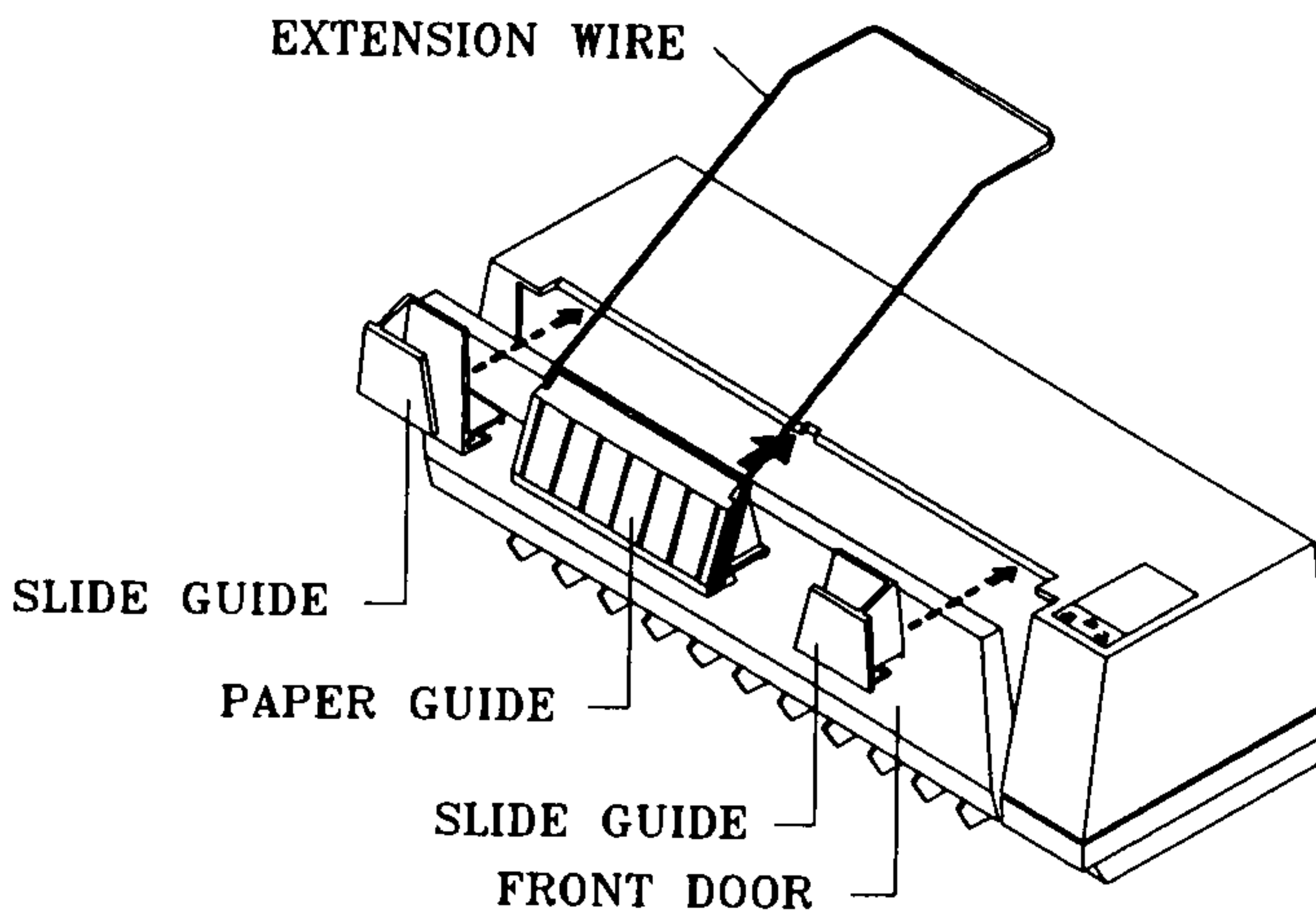


Figure 2-1 Installation for slide guides, paper guide and extension wire.

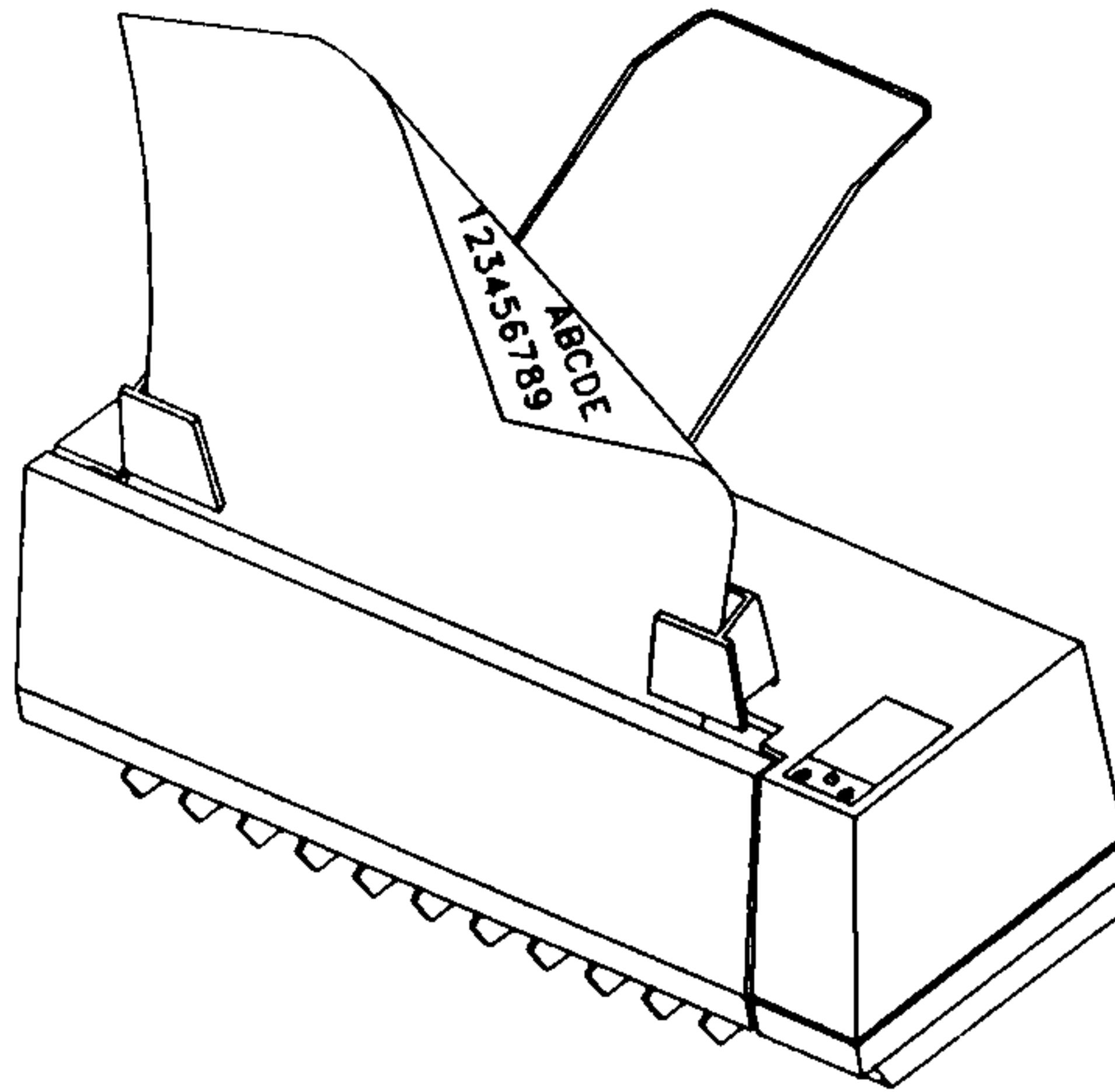


Figure 2-2 Place documents in the ADF

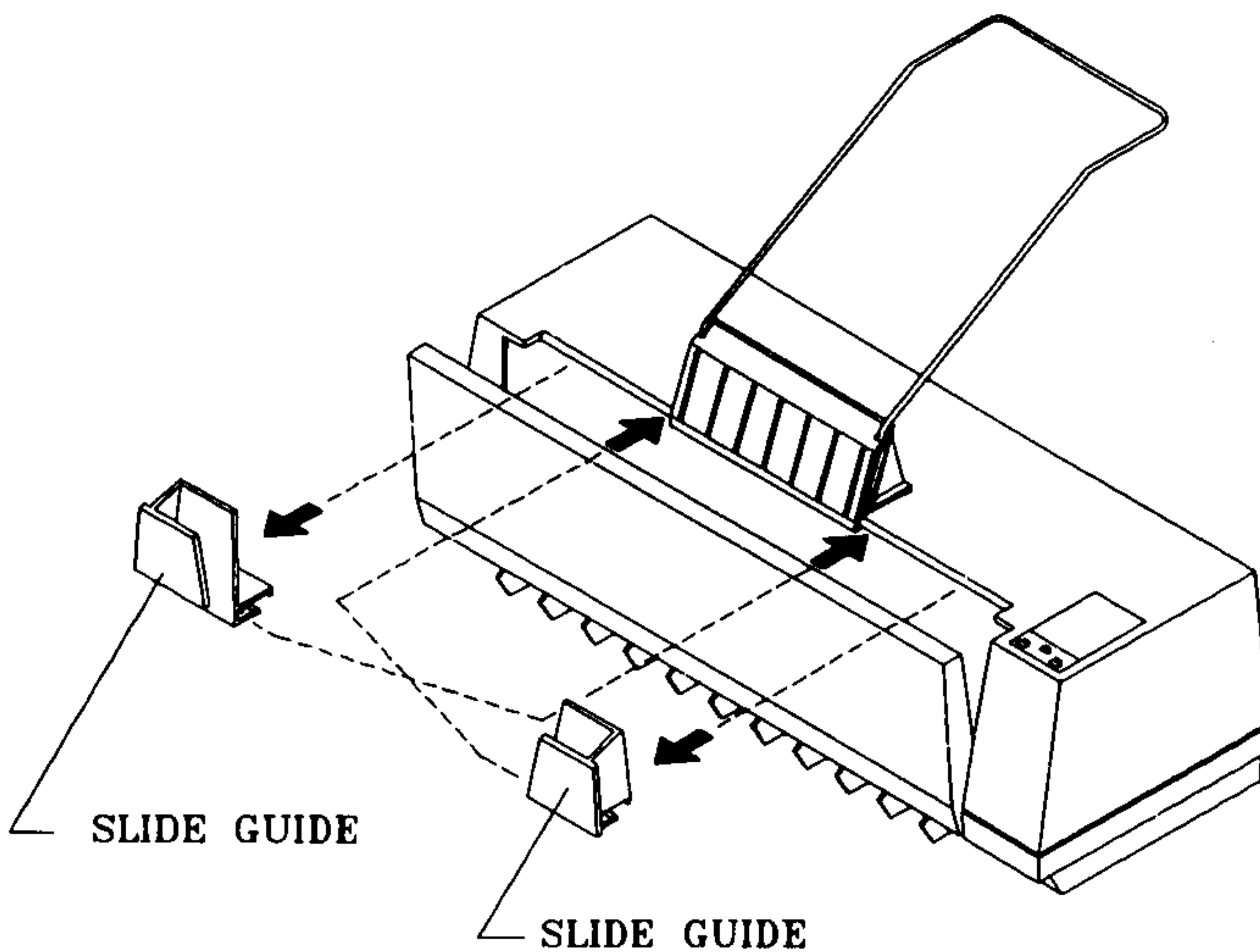


Figure 2-3 Reverse slide guides to accommodate small document

2.2.Connecting the cable

Be sure the scanner power switch is set to off.

Connect the power cable and signal cable as Figure 2-4-1 to Figure 2-4-4 shown.

Turning On the Power

The power is controlled by a toggle switch on the back of the scanner. To turn on the scanner, push the switch toward "1". The POWER LED should light. If the LED does not light, please check the power.

Self Diagnostic

The scanner has a build-in self diagnostic function. When the power is turned on, the Scanner will initiate the test. The READY LED will blink during the process. When the test complete, if no error condition occurred, the READY LED should light on steadily.

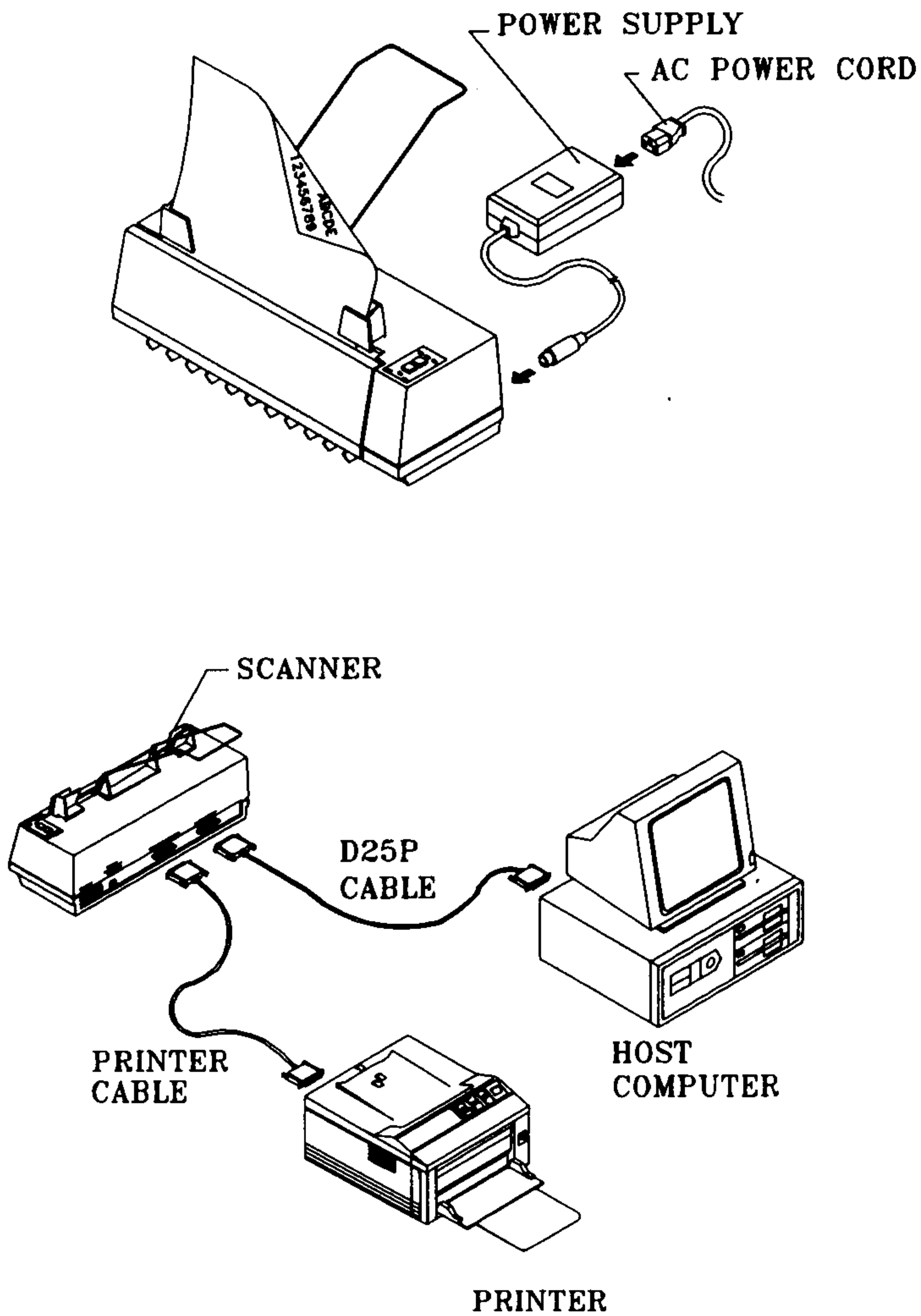


Figure 2-4-1 AV100II, PC Scanner Cable connection

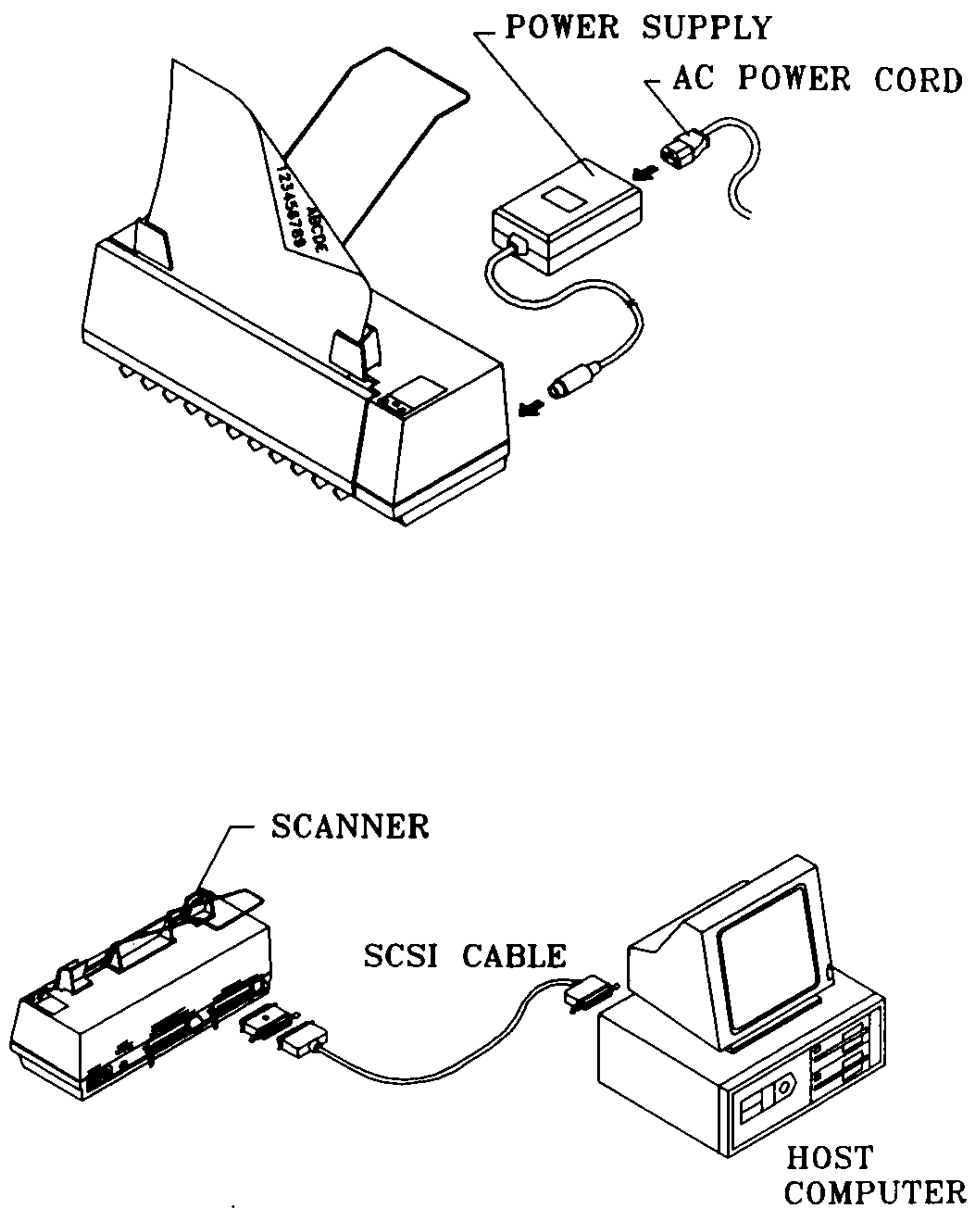


Figure 2-4-2 AV100 II SCSI Scanner Cable connection

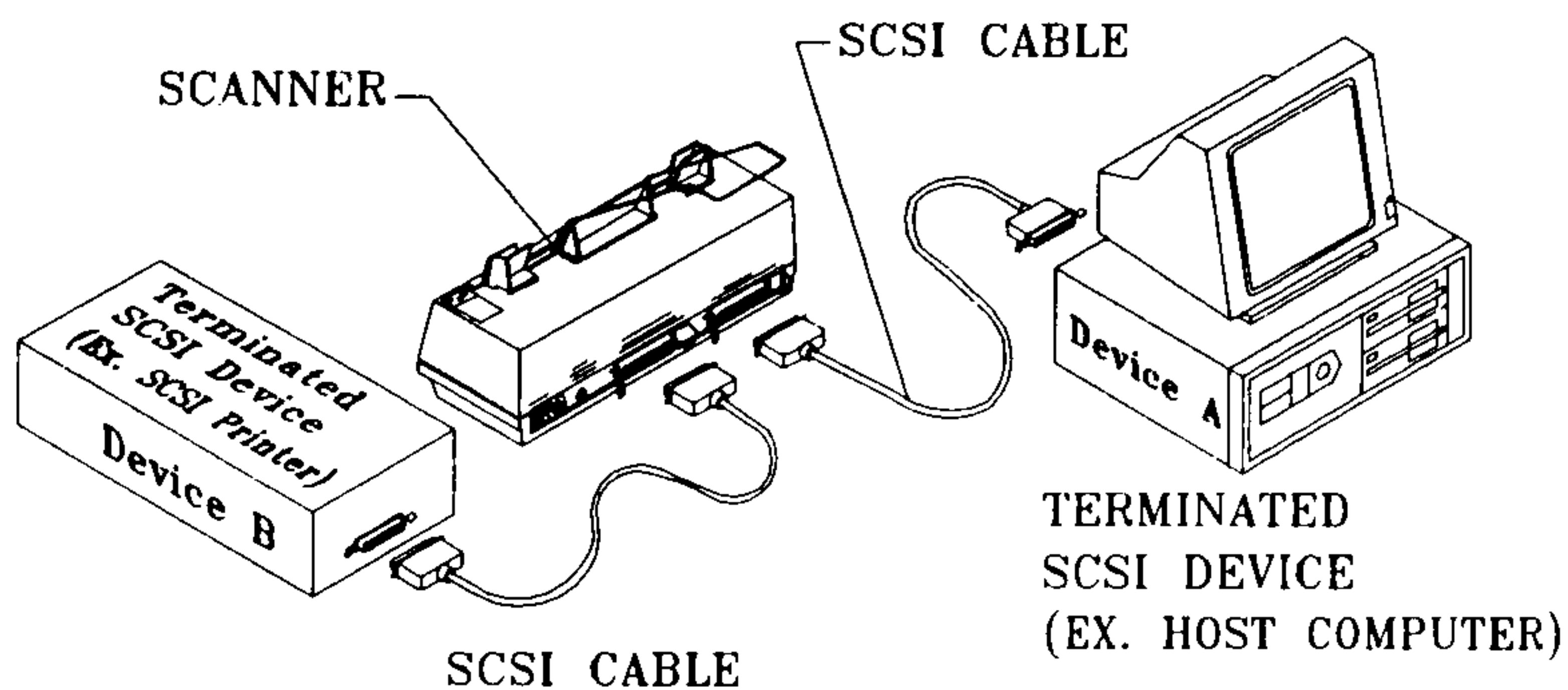


Figure 2-4-2 AV100 II SCSI Scanner Cable connection
(continued)

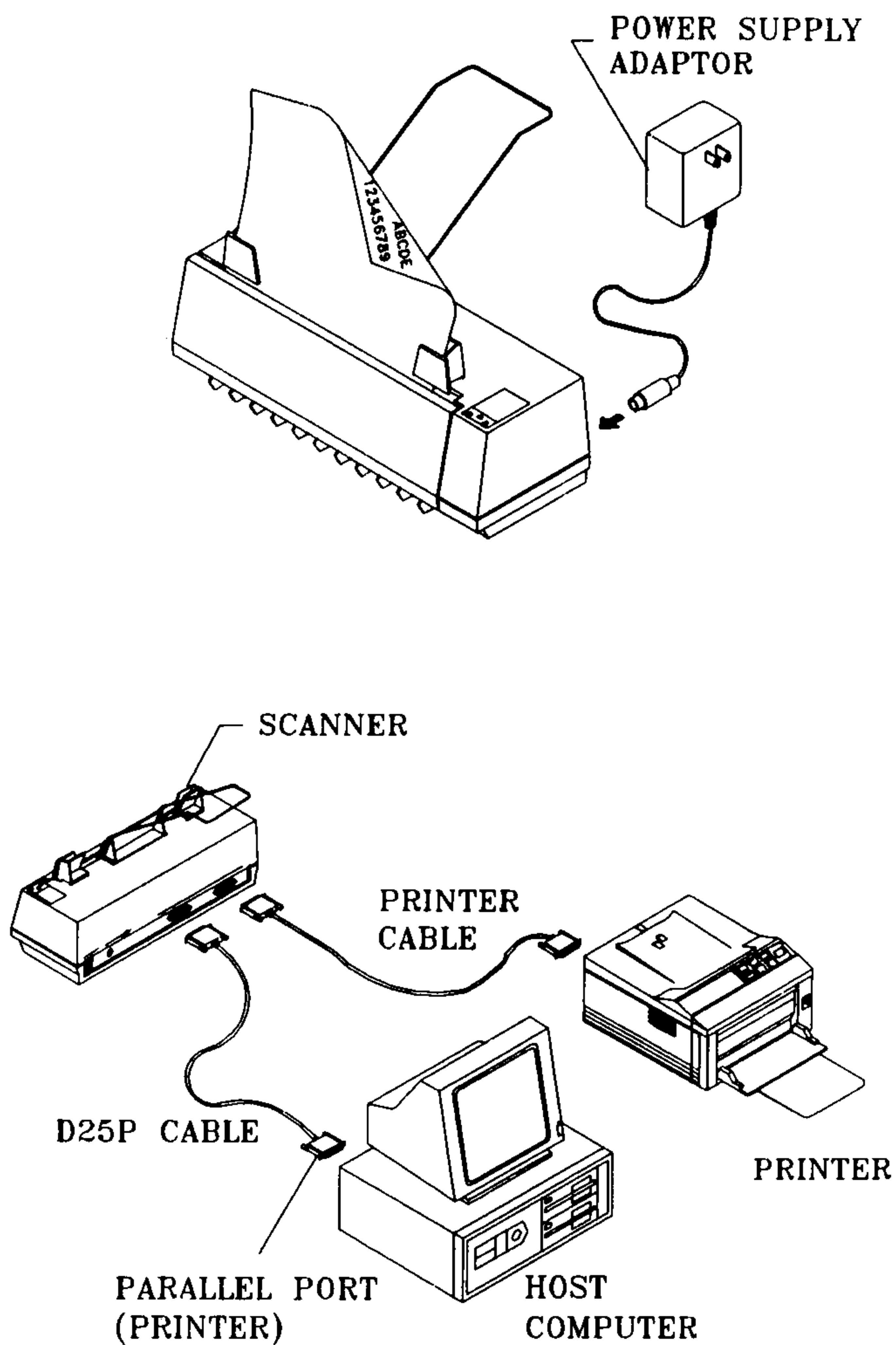


Figure 2-4-3 AV100 P Scanner Cable connection

3. *Scanner Interface Card Installation*

3.1. *PC user*

3.1.1. *Avision proprietary card*

The Avision proprietary interface card(Figure 3-1) will use two I/O port addresses of the PC for data transfer and communication by setting the 4 DIP switches on this card. All the selected I/O address should not conflict with any other existing cards.

The DIP switch setting is shown as follow:

SW1	SW2	SW3	SW4	port address	N
on	on	off	on	220	1
on	off	on	off	290	2
off	on	off	on	320	3
off	off	on	off	390	4
on	on	on	on	200	5
on	on	on	off	210	6
on	on	off	off	230	7
on	off	on	on	280	8
on	off	off	on	2A0	9
on	off	off	off	2B0	10
off	on	on	on	300	11
off	on	on	off	310	12
off	on	off	off	330	13
off	off	on	on	380	14
off	off	off	on	3A0	15
off	off	off	off	3B0	16

Table 3.1 DIP switch setting

Note: The default port address setting is 220h, and 'N' is the specified parameter for Avision scanner driver.

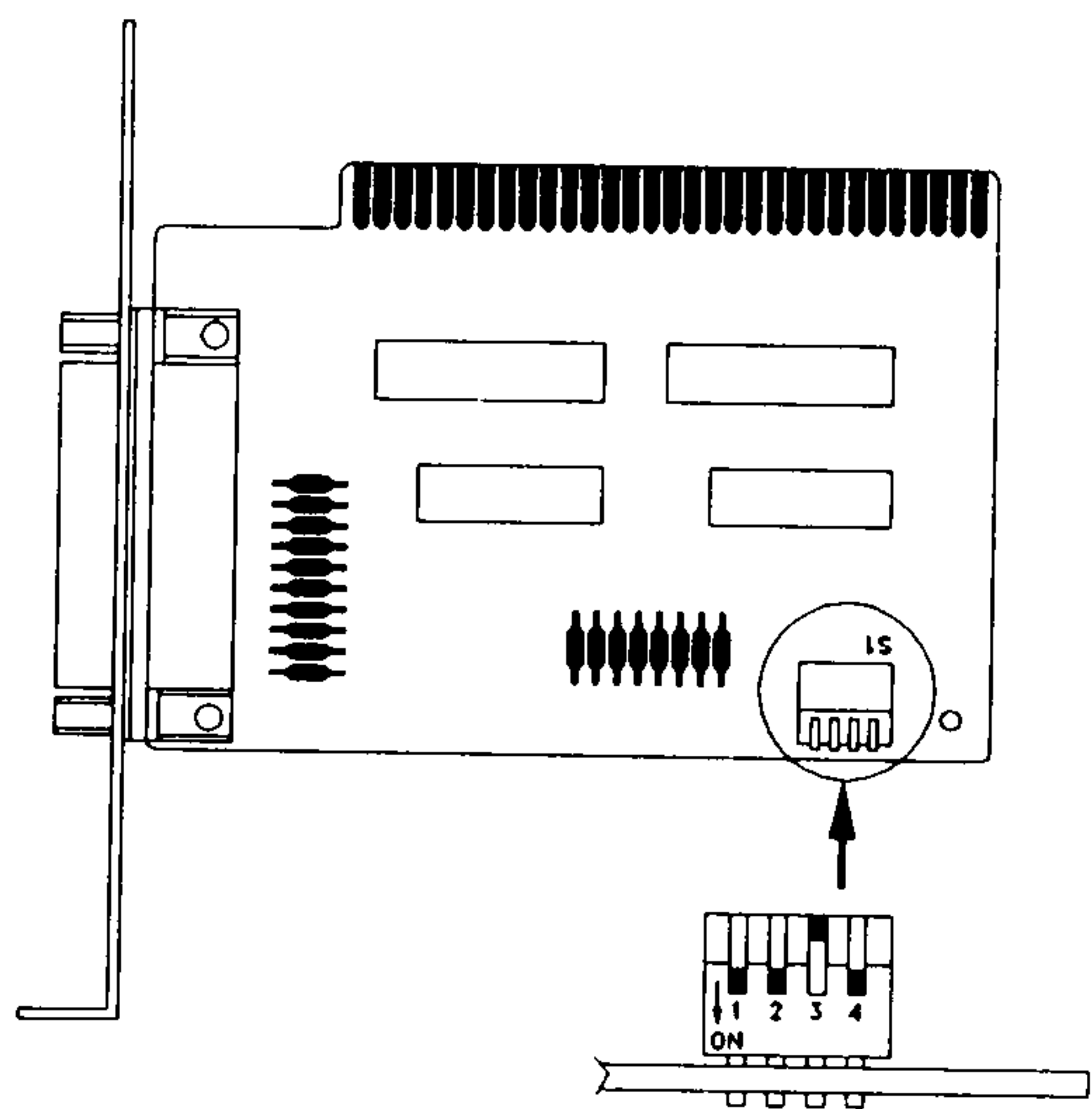


Figure 3-1 Avision proprietary card setting

3.1.2. ScanPlug [AV100II only]

You can connect the scanner to your PC parallel port via the ScanPlug.

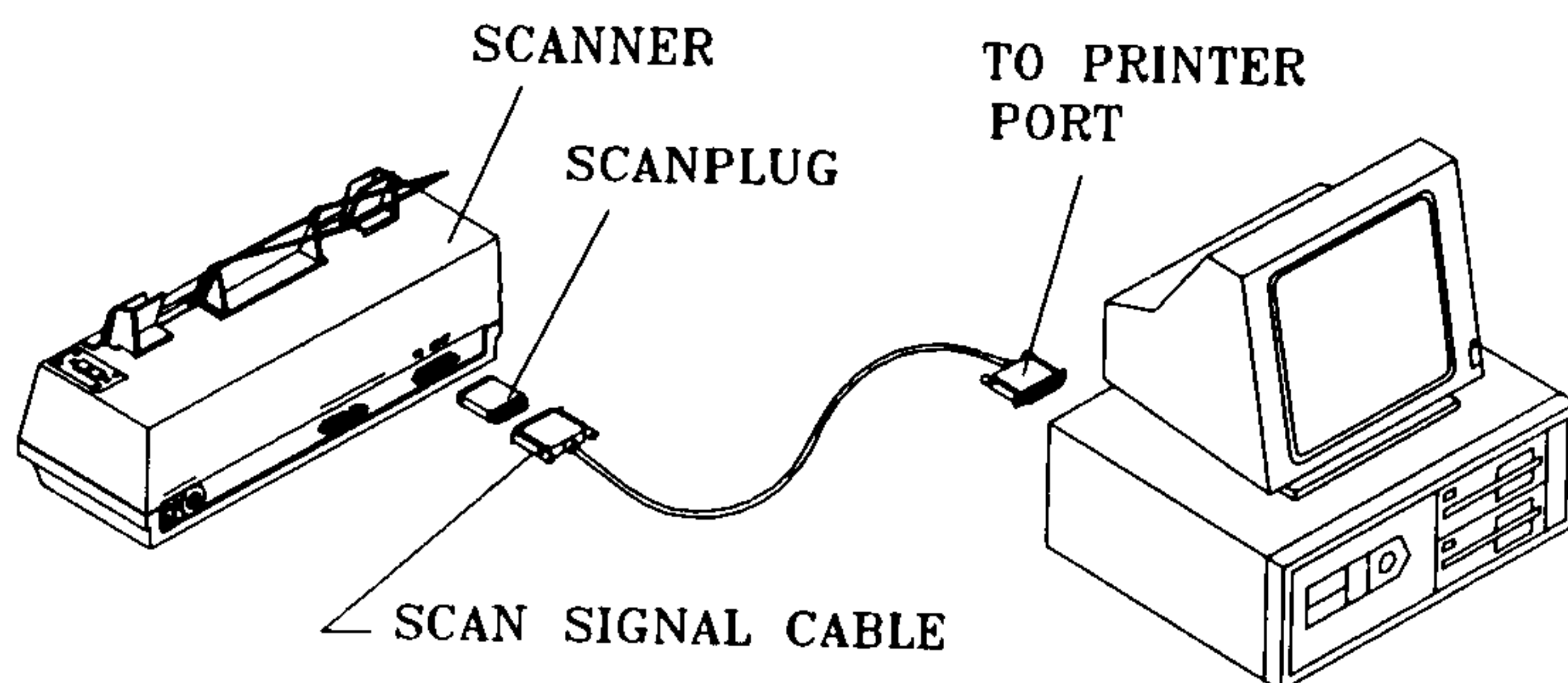


Figure 3-2 How to connect the ScanPlug to your PC

3.1.3. DTC-3151 SCSI card [SCSI version only]

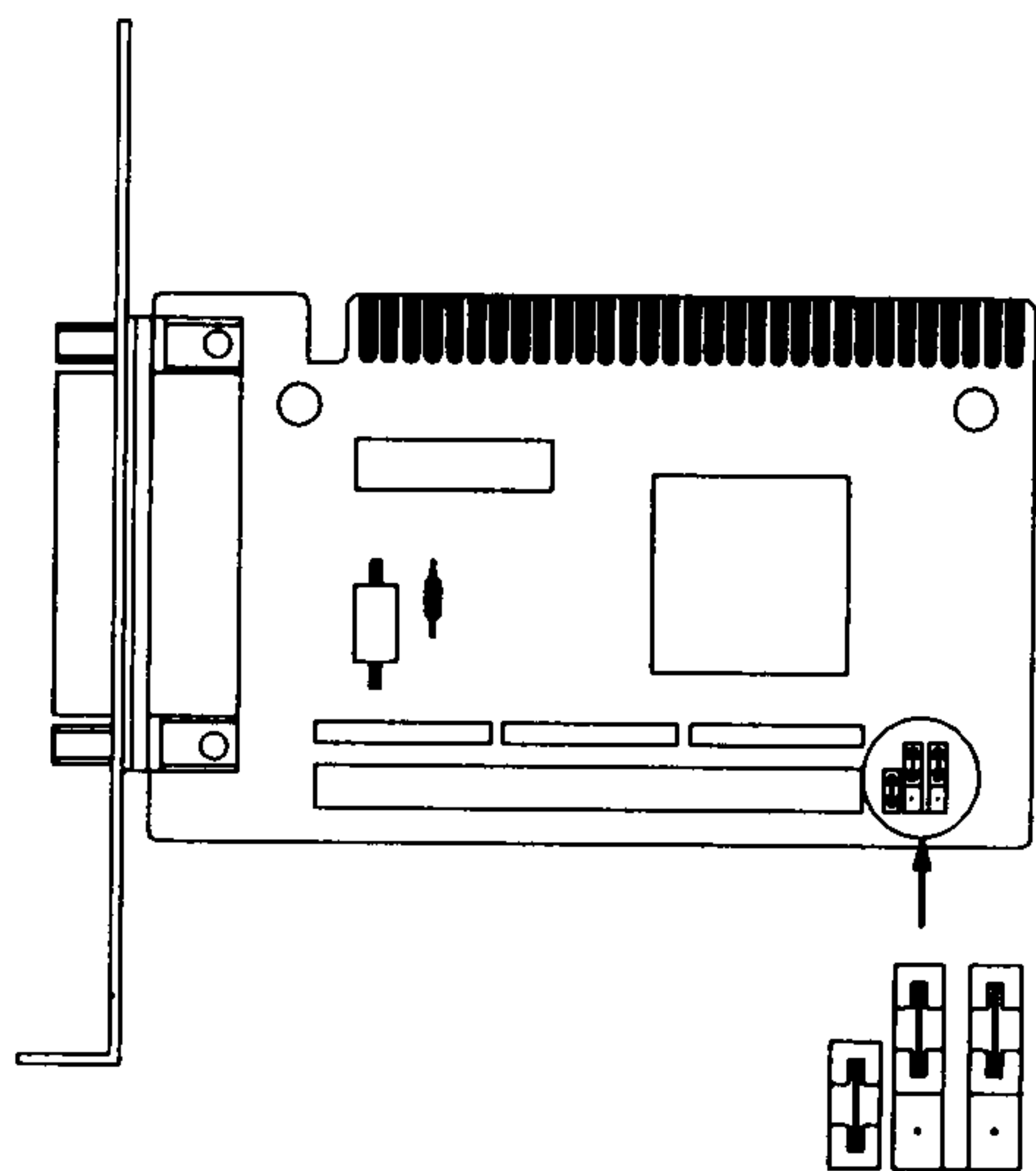


Figure 3-3 DTC-3151 SCSI card setting

An industry standard SCSI card for connecting peripheral devices to microprocessor has the advantage to connect 7 devices including the scanner, hard disks, optical disks, tape drives, optical drives and others.(Adaptec 15xx SCSI card , and other ASPI compatible SCSI are recommended by Avision)

3.2. MAC user

The Mac system already has SCSI controller build-in. Therefore, connect the system as shown in Figure 2-4-2, *and set different SCSI ID for each SCSI device.*

4. Scanner Driver Installation

4.1. PC user

The AV100 series scanner has the following minimum requirements to run at rated speed are recommended:

- * Microsoft Windows 3.0 or later.
- * IBM PC 386/486 or compatible.
- * 20M Bytes free hard disk space.
- * Minimum of 4M Bytes system memory are required, 8 ~ 16M Bytes are recommended.
- * Windows compatible display card and monitor, true color super VGA card are recommended.
(AV100CS only).
- * Windows compatible mouse or any pointing device.
- * A 3.5" floppy disk drive.

4.1.1. Auto-install program

Installation Procedure for Avison Scanner driver with Avison Auto-Install Program are as follow:

1. Insert "Avison Driver Kit" into your computer disk drive.
Start MS-Windows and from the Program Manager, choose File...Run...(See Fig. 4.1) When a dialog box as shown in Fig. 4.2, type "A:\INSTALL.EXE" in the dialog box and click (Where A:\ is the disk drive you are installing from).

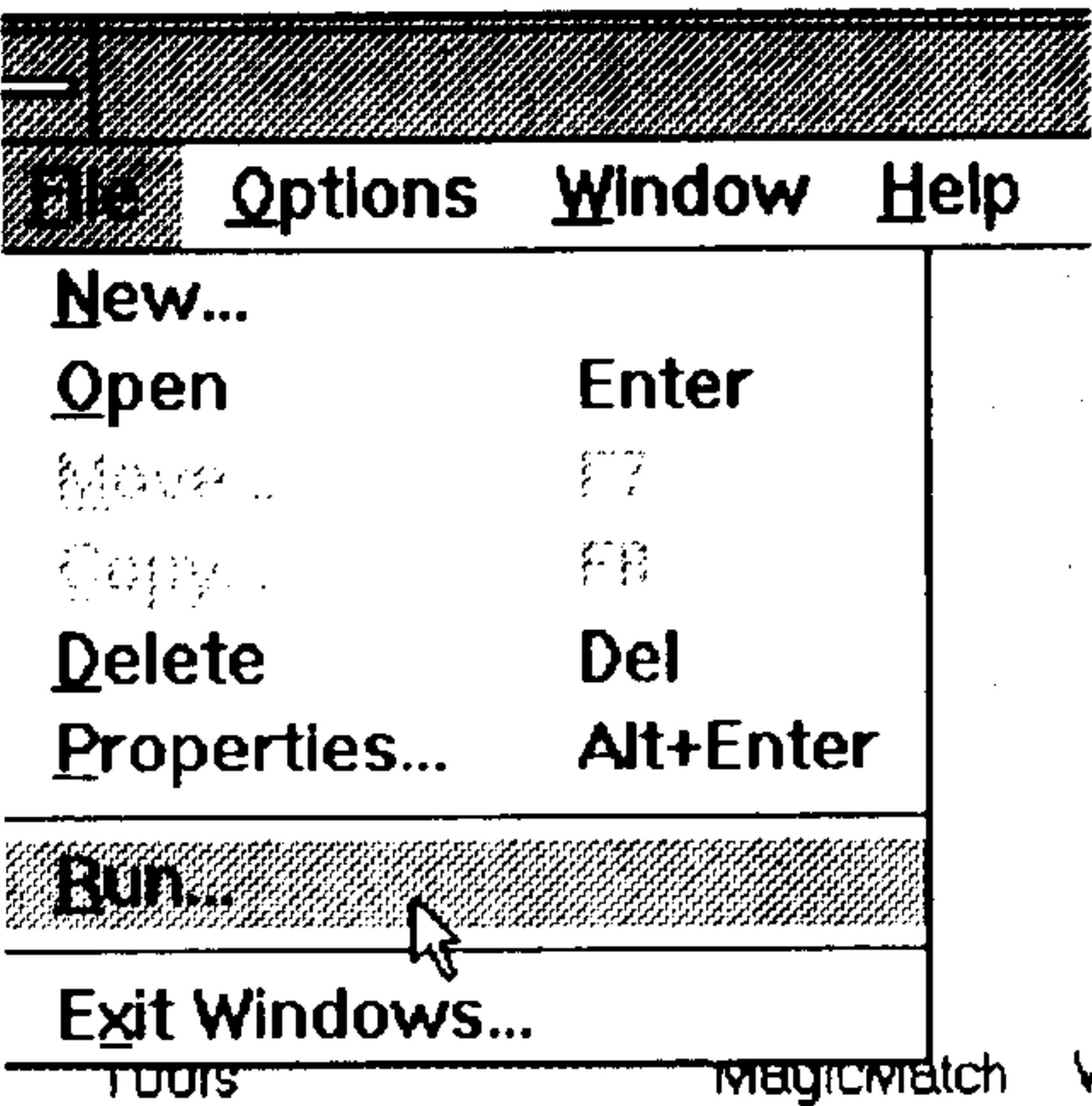


Fig. 4.1

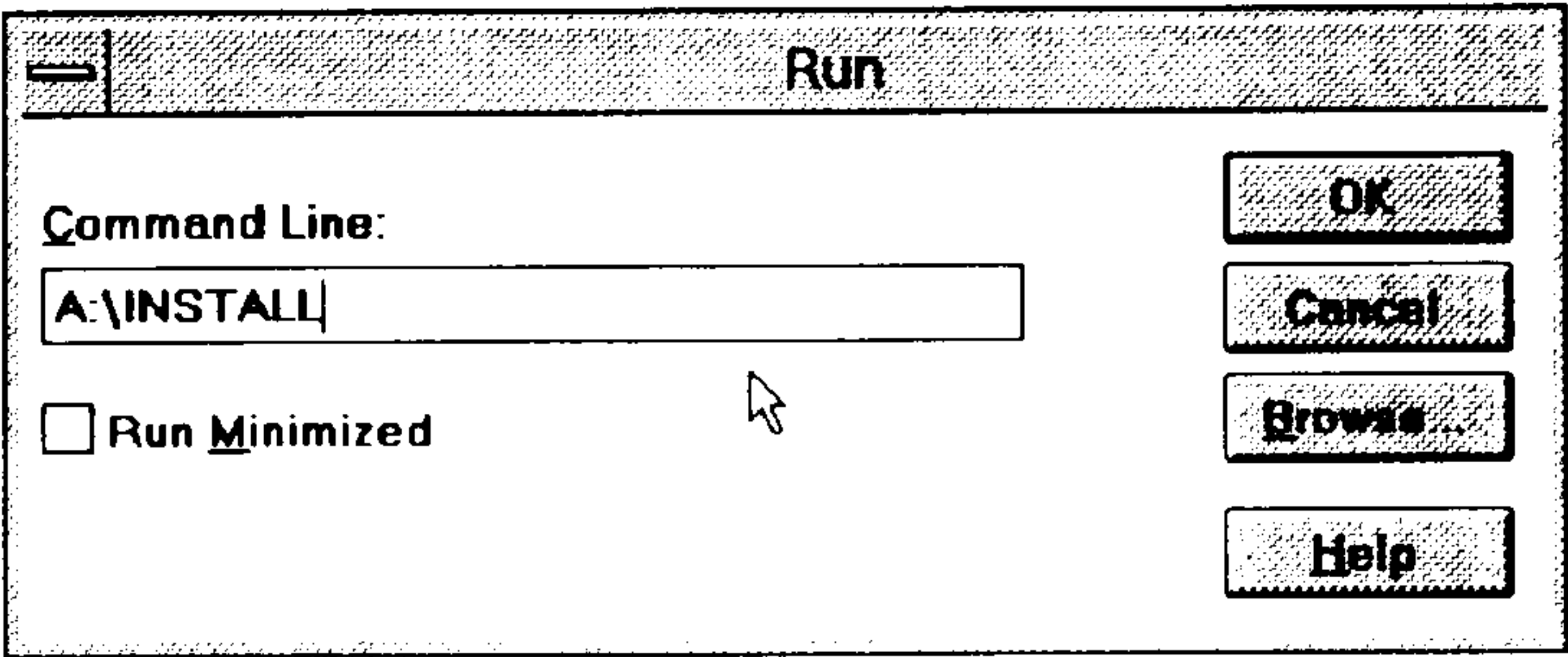


Fig. 4.2

2. Follow the instructions on the screen, the installation program will guide you all the way to complete the installation.

4.1.2. Install driver manually

Please make sure that every change in your config.sys file will not take effect until reboot your system.

4.1.2.1. For Avision proprietary card

1. Copy AVDRV.SYS from "Avision Driver Kit" diskette to the root directory of your boot disk.
2. Add following line to your CONFIG.SYS file

DEVICE =C:\AVDRV.SYS /N

Where N is the index of your scanner interface card port address.(see Table 3-1 for detail)

Example: If you want to use 290h as your card I/O address, the CONFIG.SYS should contains:

DEVICE=C:\AVDRV.SYS /2

Note: If you have sound card or network card in your PC, we recommend you to use port address 290H or 320H.

4.1.2.2. For ASPI compatible SCSI card

1. Copy AVASPI.SYS from "Avision Driver Kit" diskette to the root directory of your boot disk.
2. Add following line to your CONFIG.SYS file:

DEVICE =C:\AVASPI.SYS

- Note: 1. Your Adaptec SCSI card should support ASPI driver called ASPI4DOS.SYS or ASPI2DOS.SYS
2. Avision DTC3151 SCSI card has support ASPI driver called AS80DOS.EXE.

4.1.2.3. For DTC3151 (NCR53C400A) SCSI card

1. Copy AS80DOS.SYS and AVASPI.SYS from Avision Driver Kit" diskette to the root directory of your boot disk.
2. Add the following two lines to your CONFIG.SYS file:

DEVICE=C:\AS80DOS.SYS

DEVICE=C:\AVASPI.SYS

Note: For more information about AS80DOS.SYS, please read README.DTC file in the driver diskette .

4.1.2.4. For ScanPlug

1. Copy AVDRVP.SYS from "Avision Driver Kit" diskette to the root directory of your boot disk.
2. Add the following two lines to your CONFIG.SYS file:

DEVICE=C:\AVDRVP.SYS

- Note: 1. AVDRVP.SYS will search printer port and scanner automatically. Before turning on your PC, make sure the scanner is ready.
2. For some Note Book user, use AVDRVD2.SYS

4.1.2.5. Install TWAIN for Windows

1. Add Avision device driver (AVDRV.SYS or AVASPI.SYS) in your CONFIG.SYS.
(see 4.1.2.1 to 4.1.2.4)
2. Copy TWAIN.DLL from \TWAIN directory of "Avision Driver Kit" diskette to the \WINDOWS directory on your hard disk.
3. Copy BWCC.DLL and CTL3D.DLL from the root directory of "Avision Driver Kit" diskette to the \WINDOWS \SYSTEM directory on your hard disk.

4.1.2.6. Install PXW driver for OmniPage, OmniPage Professional

1. Add Avision device driver) in your CONFIG.SYS.(see 4.1.2.1 to 4.1.2.4)
2. Follow the instructions of OmniPage user guide to install the OmniPage software.
3. Exit Windows and change to OmniPage directory (e.g. \OP or \OPRO).
4. Copy AVISION.PXW and SCANMGR.LST from \PXW directory of "Avision Driver Kit" diskette to the \OP or \OPRO.directory on your hard disk.
5. Run Windows and OmniPage\Professional and use Option\Scanner menu to choose AVISION scanner.

Note: For OmniPage 5.0 user. When using the Settings Panel sub-menu (located in the Settings Menu) do not select OCR with AnyPage or Auto Brightness with AnyPage because they are not active. Use the Manual Brightness option instead.

4.1.2.7. Install PXW driver for WordScan, WordScan Plus V1.x

1. Add Avison device driver in your CONFIG.SYS. (see 4.1.2.1 to 4.1.2.4)
2. Follow the instructions of WordScan or WordScan Plus user guide to install the WordScan or WordScan Plus software.
3. Edit the file \CALERA\LIB\UUI\SYSTEM.DAT, and modified this line
dp=rsp;CALisrc,1,0
as
dp=rsp;CALisrc,1,0+ Avison
4. Copy AVISION.WDR from PXW directory of "Avison Driver Kit" diskette to the CALERA LIB SCANNERS directory on your hard disk.
5. Copy the file named PIXDFLT.DLL and AVISION. PXW from \PXW directory of "Avison Driver Kit" diskette to the \WINDOWS SYSTEM directory on your hard disk.

4.1.2.8. Install PXW driver for WordScan, WordScan Plus V2.x

1. Add Avision device driver in your CONFIG.SYS.(see 4.1.2.1 to 4.1.2.4)
2. Follow the instructions of WordScan and WordScan Plus for installation.
3. Edit the file \CALERA\LIB\UUI\SYSTEM.DAT, and modified this line

DP=rsp;winocrvi,1,0

as

DP=rsp;winocrvi,1,0+ Avision

4. Copy AVISION.PXW from \PXW directory of "Avision Driver Kit" diskette to the\WINDOWS\SYSTEM directory on your hard disk.

4.1.2.9. Install PXW driver for WordScan, WordScan Plus V3.x

1. Add Avision device driver in your CONFIG.SYS.(see 4.1.2.1 to 4.1.2.4)
2. Follow the instructions of WordScan/WordScan Plus user guide to install the WordScan/WordScan Plus software.
3. Edit the file \windows\ws30.ini, modified as follow:

[Scan]

Driver=AVISION

Name=Avision Scanner

4. Copy AVISION.PXW from \PXW directory of "Avision Diver Kit" diskette to the \WINDOWS\SYSTEM directory on your hard disk.

4.1.2.10. Install PXW driver for FileMagic for Windows

1. Add Avision device driver in your CONFIG.SYS.
(see 4.1.2.1 to 4.1.2.4)
2. Follow the instructions of FileMagic user guide to install the FileMagic software.
3. Exit Windows.
4. Copy AVISION.PXW from \PXW directory of "Avision Driver Kit" diskette to the WINDOWS\SYSTEM directory on your hard disk.
5. Run Windows and FileMagic, and choose in the Setup/ Scanner setting menu AVISION scanner.

4.1.2.11. Install PXW driver for Pixel Translation(PXW)-compatible Windows software

1. Add Avision device driver in your CONFIG.SYS.
(see 4.1.2.1 to 4.1.2.4)
2. Copy PIXDFLT.DLL and AVISION.PXW from PXW directory of "Avision Driver Kit" diskette to the \WINDOWS \SYSTEM directory on your hard disk.
3. In general, PXW compatible software will have a menu item called "scanner setting" or "Scanner Selection". Click the selection on your screen and add "Avision scanner" into the above selection.

4.1.2.12. Install PXW driver for CuneiForm V1.02 or later

1. Please install Avison device driver in your CONFIG.SYS. (see 4.1.2.1 to 4.1.2.4)
2. Follow the instructions of CuneiForm user's guide to install the CuneiForm software.
3. Exit Windows and change to CuneiForm directory (e.g.\CUNEI).
4. Copy AVISION.PXW from \PXW directory of "Avison Driver Kit" diskette to the\CUNEI directory on your hard disk.

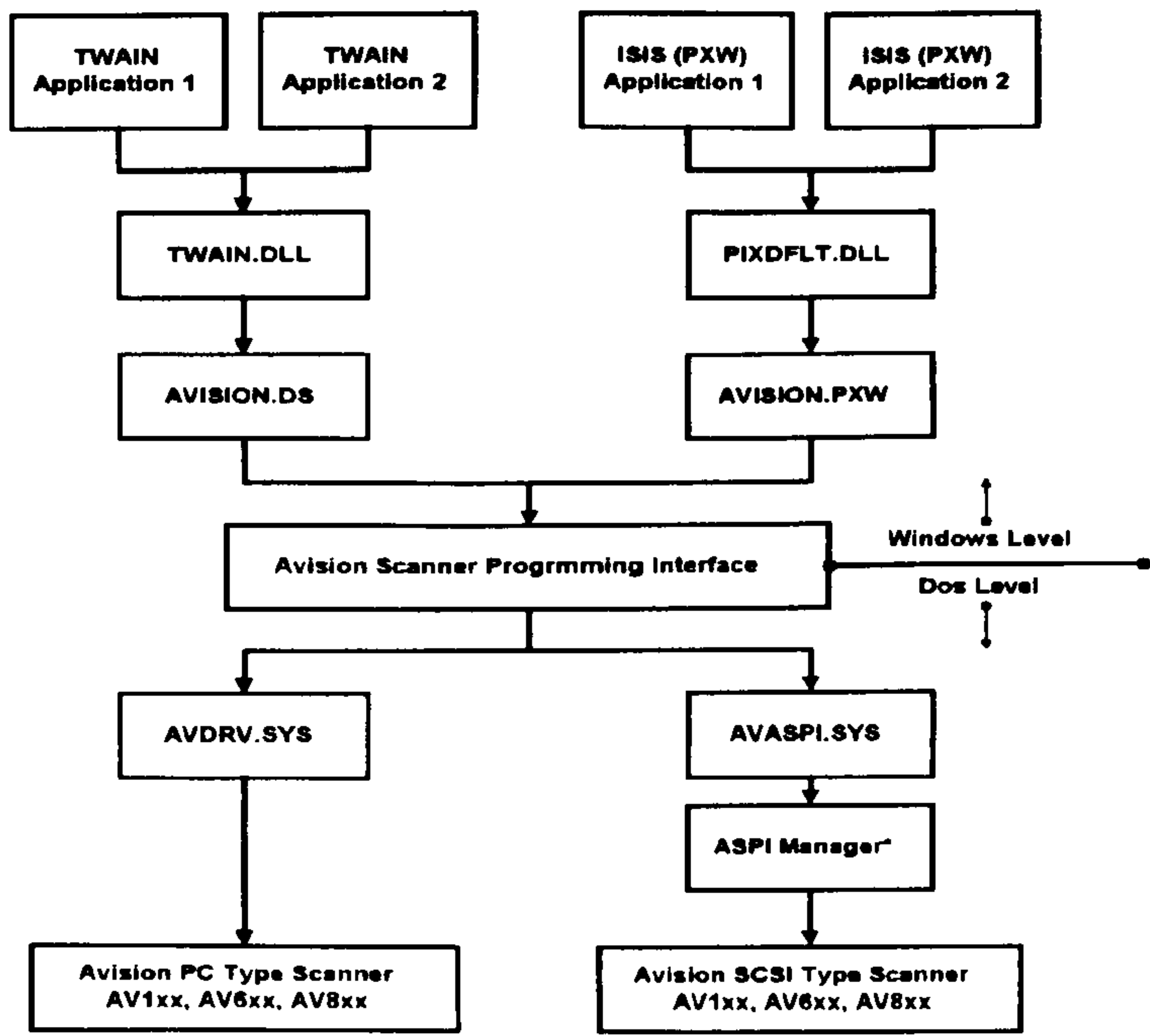
4.1.2.13. Install ZSoft driver for Avison Scanner

ZSoft scanner driver is a scanner interface standard designed by ZSoft. There are some other software companies like GreenGage and ImageFast, who also use this driver.

1. Please install Avison device driver in your CONFIG.SYS. (see 4.1.2.1 to 4.1.2.4)
2. Copy AVZSOFT.EXE from \ZSOFT directory of "Avison Driver Kit" diskette to the\WINDOWS\SYSTEM directory on your hard disk.
3. Add \WINDOWS\SYSTEM\AVZSOFT.EXE to your AUTOEXEC.BAT.

4.1.3. Driver Architecture

The Avison scanner driver architecture are as follow:



*AVASPI.SYS requires a SCSI Manager, AS80DOS.SYS, ASPI2DOSSYS , ASPI4DOS.SYS are ASPI Managers

Figure 4-3 Avison scanner driver architecture

TWAIN applications - PhotoStyler, PhotoShop, ImagePals, Picture Publisher, PhotoFinish, Halo Desktop Imager, WinFax, WaterMark, OmniPage, PaperMaster and more.

ISIS (PXW) applications - OmniPage, CuneiForm, WordScan, WaterMark, Cognitive BCR, PaperMaster, TextBridge and more.

4.2. *MAC user*

The AV100 series scanner has the following minimum requirements to run at rated speed:

- * MAC II or later, 68040 or Power PC CPU are recommended.
- * 20 M Bytes free hard disk space.
- * Minimum of 4 M Bytes system memory required, 8 ~ 16 M Bytes are recommended.
- * Mac compatible display card and monitor are required. Thousands colors or million colors display card recommended.
- * A high density 3.5" floppy disk drive.

The procedure of install Avison scanner driver are as follow:.

1. Start your system, Insert "Avison Driver Kit" into your computer's disk drive. You will find the following files in the diskette (See Fig. 4.4) as follow.

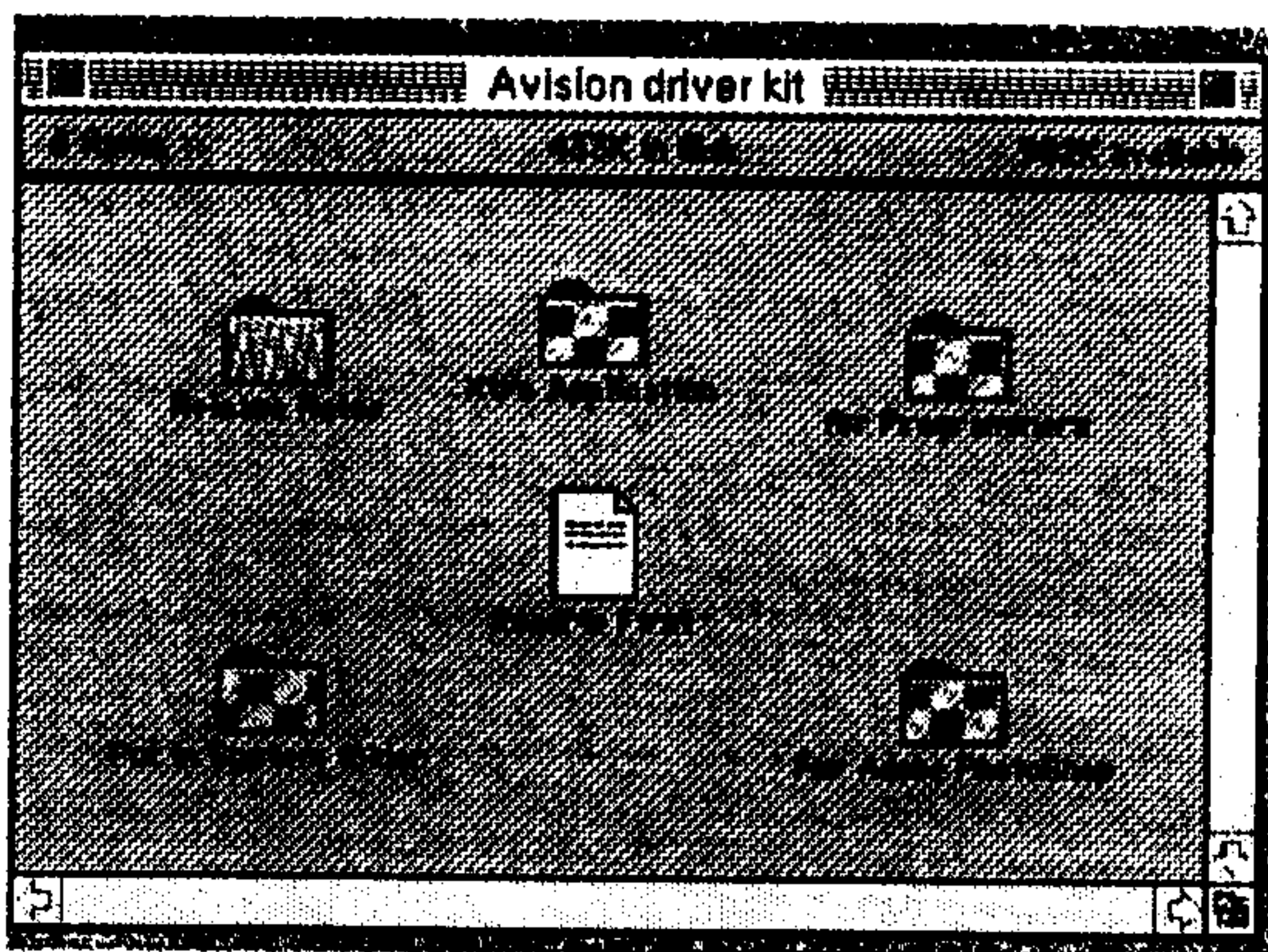


Fig. 4.4

2. Open the MAC HID. Double click the “put in System folder” and drag the files into "extension folder" or system folder" to process.

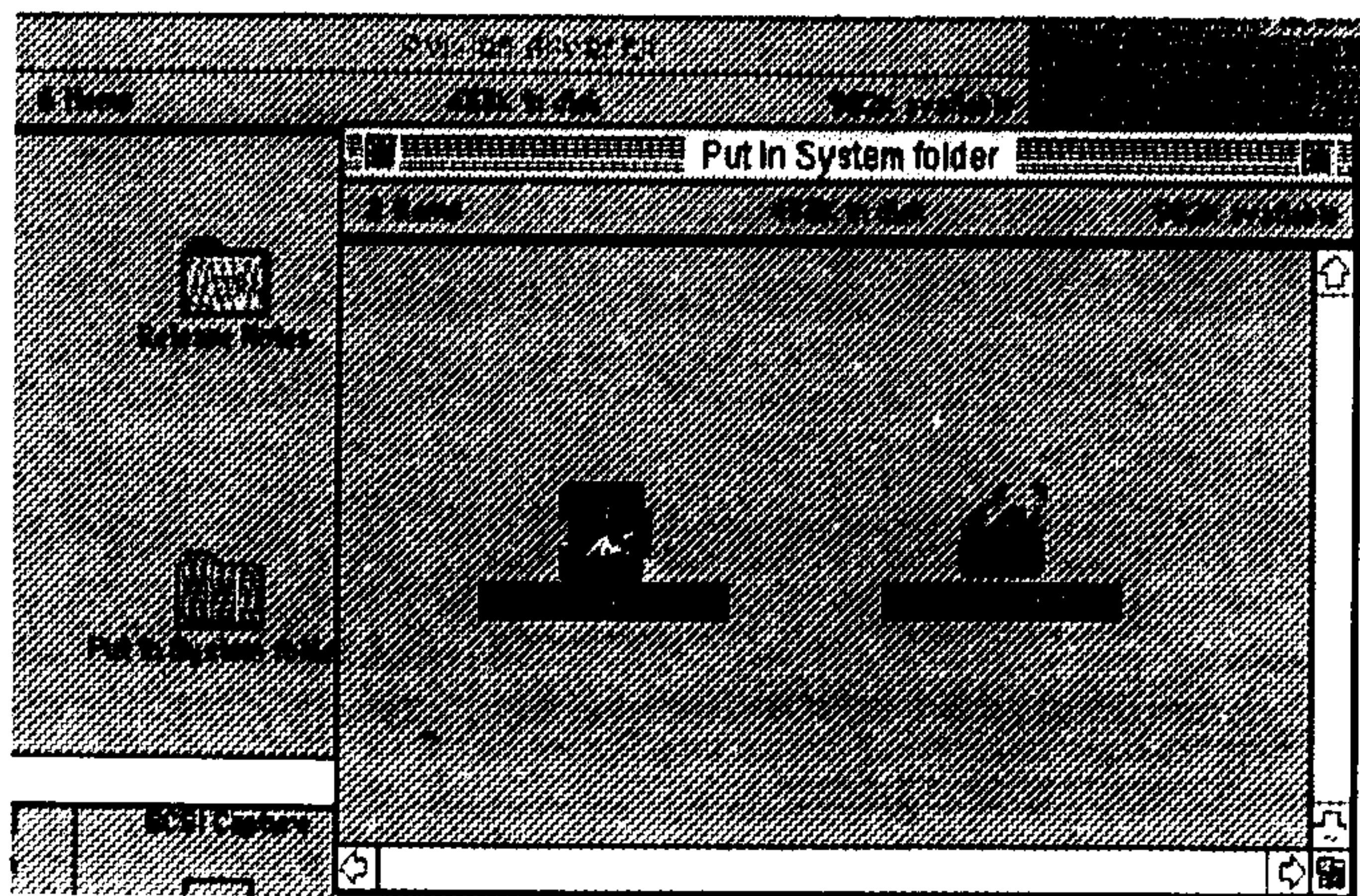


Fig. 4.5

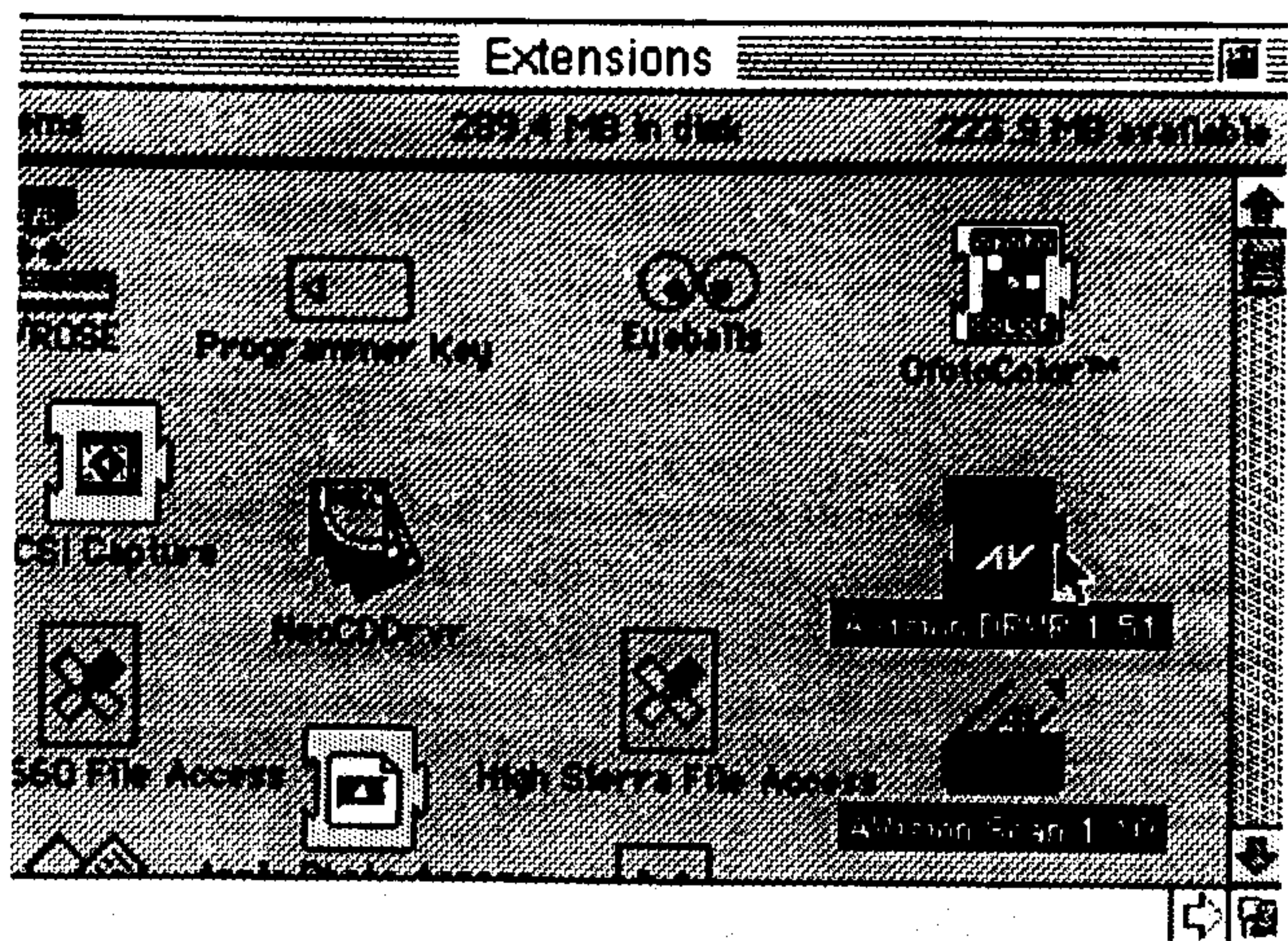


Fig. 4.6

3. If you have installed PhotoShop or application that can support "PhotoShop Plug-in", Open "For Adobe PhotoShop" folder, Drag "AvScan" file to "Plug-ins" folder of "PhotoShop" or the folder that has "PhotoShop Plug-ins".

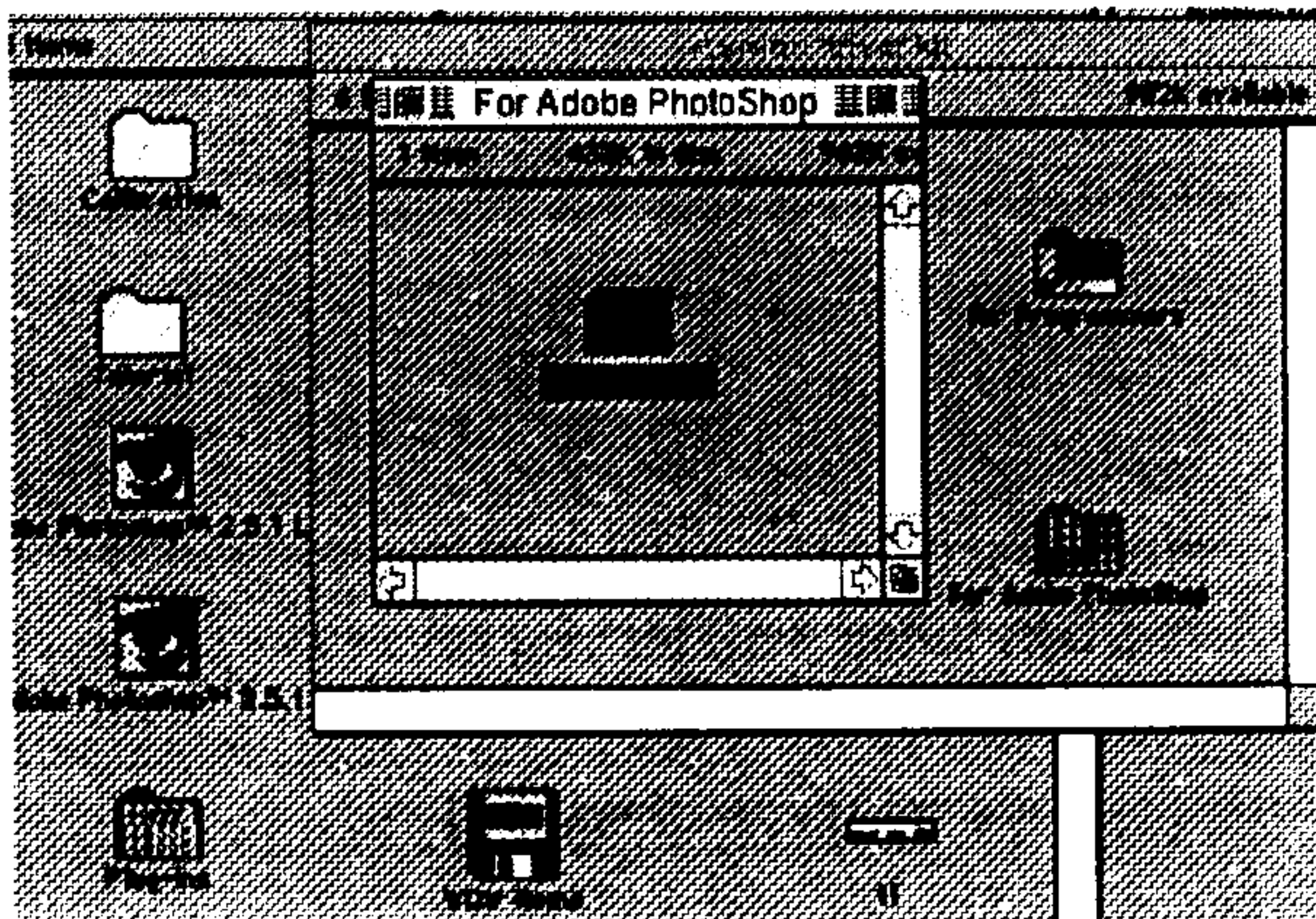


Fig. 4.7

4. Restart your Mac. before next step.
5. If you have applications that used ISIS driver, such as Xerox TextBridge, Type Reader and etc. Select Apple menu under "Choosier" to choose and setup "Avision Scan" first. In "Choosier Menu", you will find a file called "Avision Scan". Click the icon, and a dialog box will appear on screen.

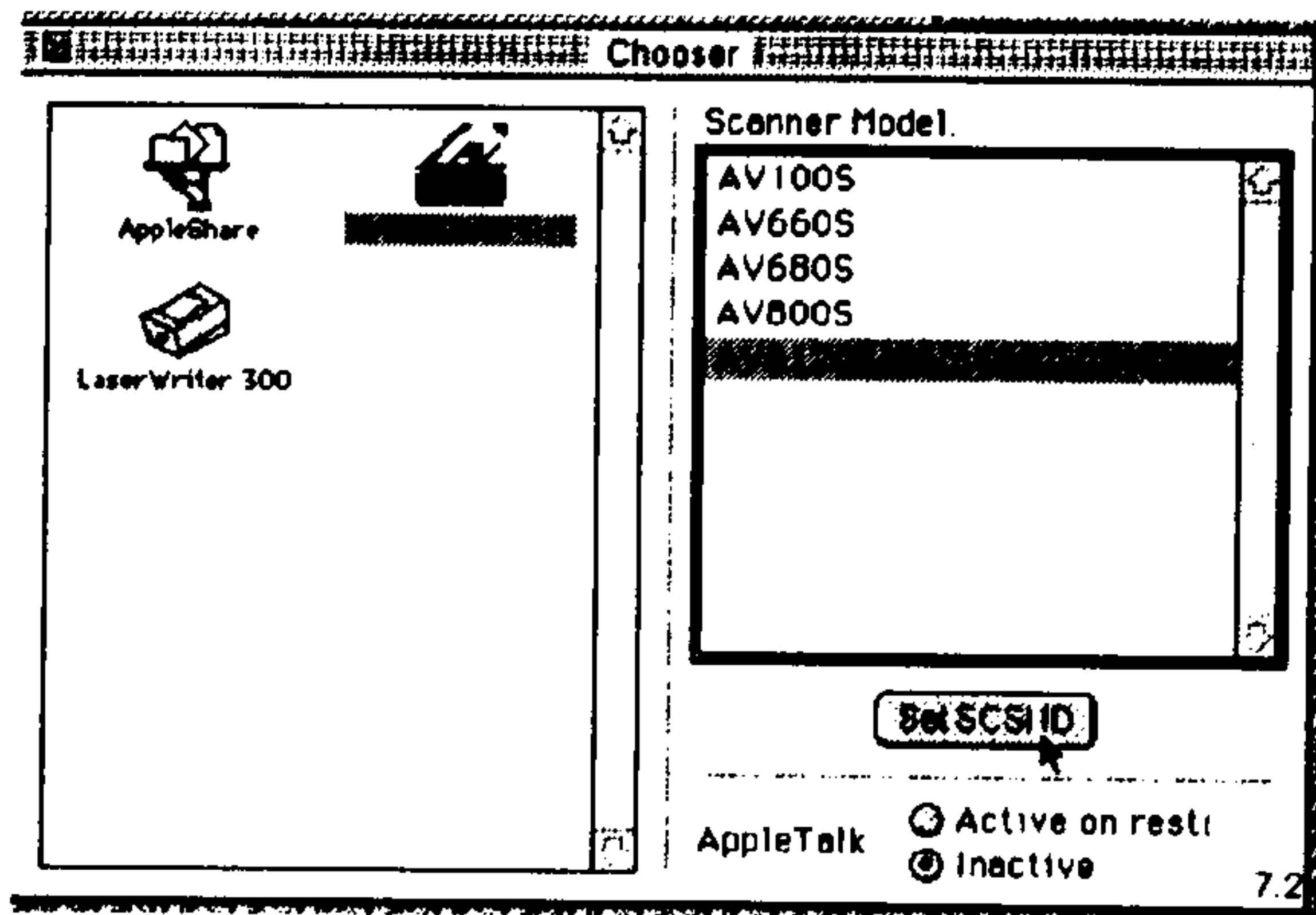


Fig. 4.8

6. Then click "Set SCSI ID" button, you will find the dialog box which will let you select the scanner ID of your scanner use (See Fig. 4.9). If you do not know the exact SCSI ID, click "Detect" button to do automatically detection.

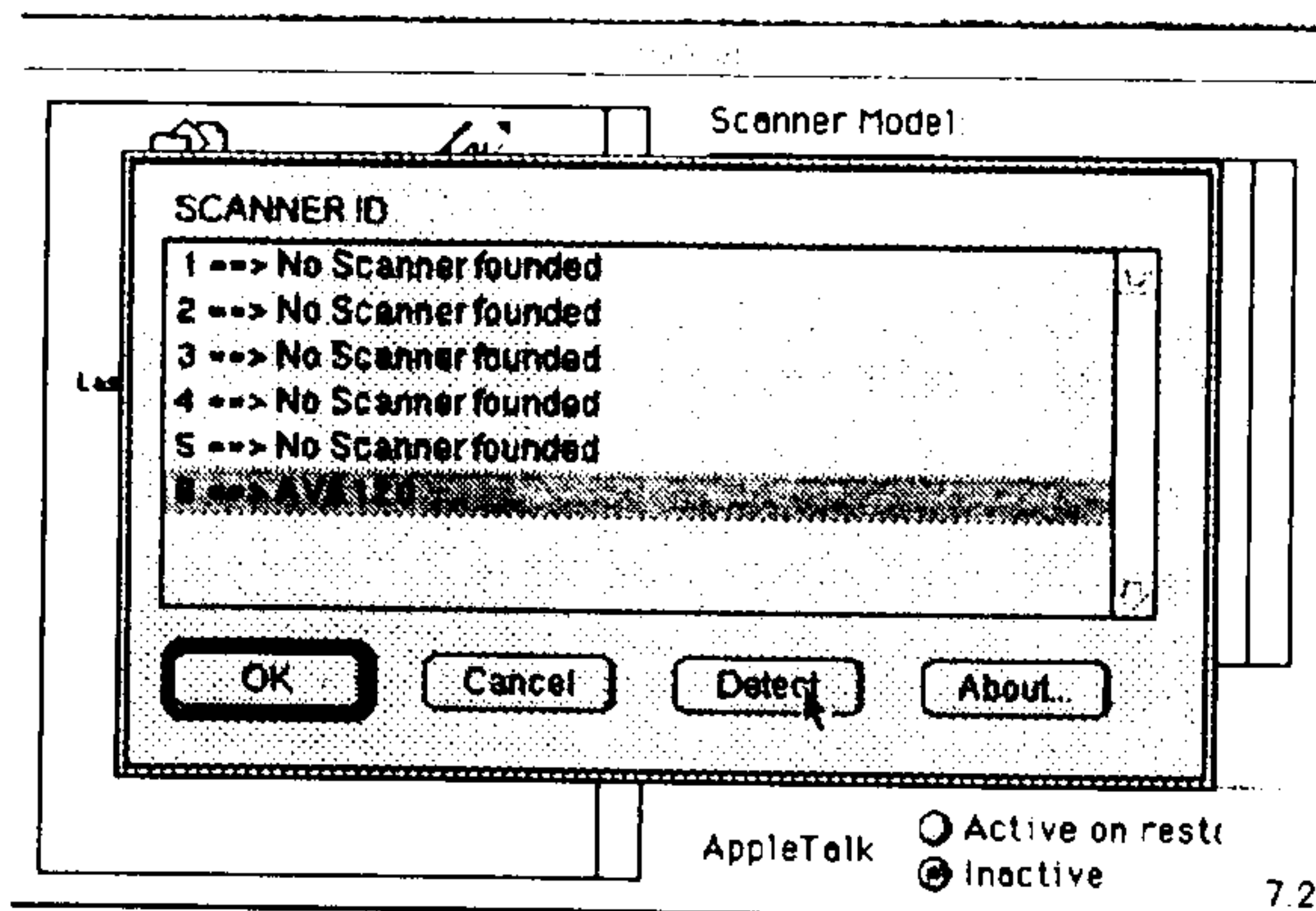


Fig. 4.9

5. Scan Operation

5.1.Scanning mode

Image type:

Line art (Single bit, Black and White)Halftone

Gray (8 Bits, 256 level gray scale)

Color (24 bits, 16.7 million colors) [AV100CS only]

Color filter:

In line art/halftone/gray mode, you can choose

Neutral filter,

Red filter,

Green filter, and

Blue filter, for color drop scan.[AV100CS only]

5.2.Scanning Media

Use ADF: use the automatic document feeder of the scanner.

Multiple Pages: This option informs the ADF to scan multiple pages.

5.3.Resolution control

Resolution: The resolution can be adjustable in 1 dpi increments.

You can choose the exact resolution that best match your need.

Scaling: You can lock the X-Y scaling factor to keep the ratio of the axis, or you can use different scaling factor for each axis.

Cm: It's a reminder for measuring system in current use. By clicking on the sign you can change the measuring system.

5.4. Image control

Brightness: Availability for brighter and darker image.

Contrast: Availability for image contrast

Gamma: Gamma correction gives you a tool to adjust the ratio of contrast and brightness, so that you won't lose the details in highlighted and shadowed areas. With other words it is a curve that adjusts the ratio of brightness and contrast.

Highlight: It enables user to adjust highlight area only.

Shadow: It enables user to adjust shadow area only.

5.5. Prescan

Prescan length: Select the length of the prescan area of the image.

Prescan: Preview your image roughly in order to allocate the exact scanning area to scan.

5.6. Scan

Scan speed: Five scan speeds are available. You can selection can be made according to your system performance.

Scan: Scan the area with all the parameters you are setting.

5.7. Copy mode(AV100II only)

1. Connect your scanner to HP compatible printer with printer cable.(Figure 2-4-1)
2. Put the document face down to lie on the paper guide and extension wire.
3. Press the upper button on the control panel to select the image type.
 - TEXT: for copying test document only.
 - HT1: use halftone pattern 1 for copying picture.
 - HT2: use halftone pattern 2 for copying picture.
4. Press "Start" button to start copying.

6. Maintenance

6.1. Cleaning the ADF

Your scanner is designed to be almost maintenance free. However you will need to clean the Feeding Roller and Pad occasionally to assure optimum image quality and performance.

The scanner parts may be contaminated with ink, toner particles or paper coatings and paper coatings. Therefore, the scanner will need to be cleaned frequently:

- 1) Documents do not feed smoothly or easily.
- 2) Several documents feed at one time.

The cleaning procedure (Figure 6-1)

- 1) Soak the cotton-tip, and swab with isopropyl alcohol.(95%).
- 2) Open the front door and wipe the upper Feeding Roller by moving the swab from side to side. Rotate the roller forward with your finger and repeat the cleaning procedure until the whole roller is cleaned. Taking care to avoid snagging or damaging the pick spring.
- 3) Wipe the pad in one direction, from top to bottom. Use care to avoid hooking the pick spring.
- 4) Close the front door. Your scanner is now ready to use.

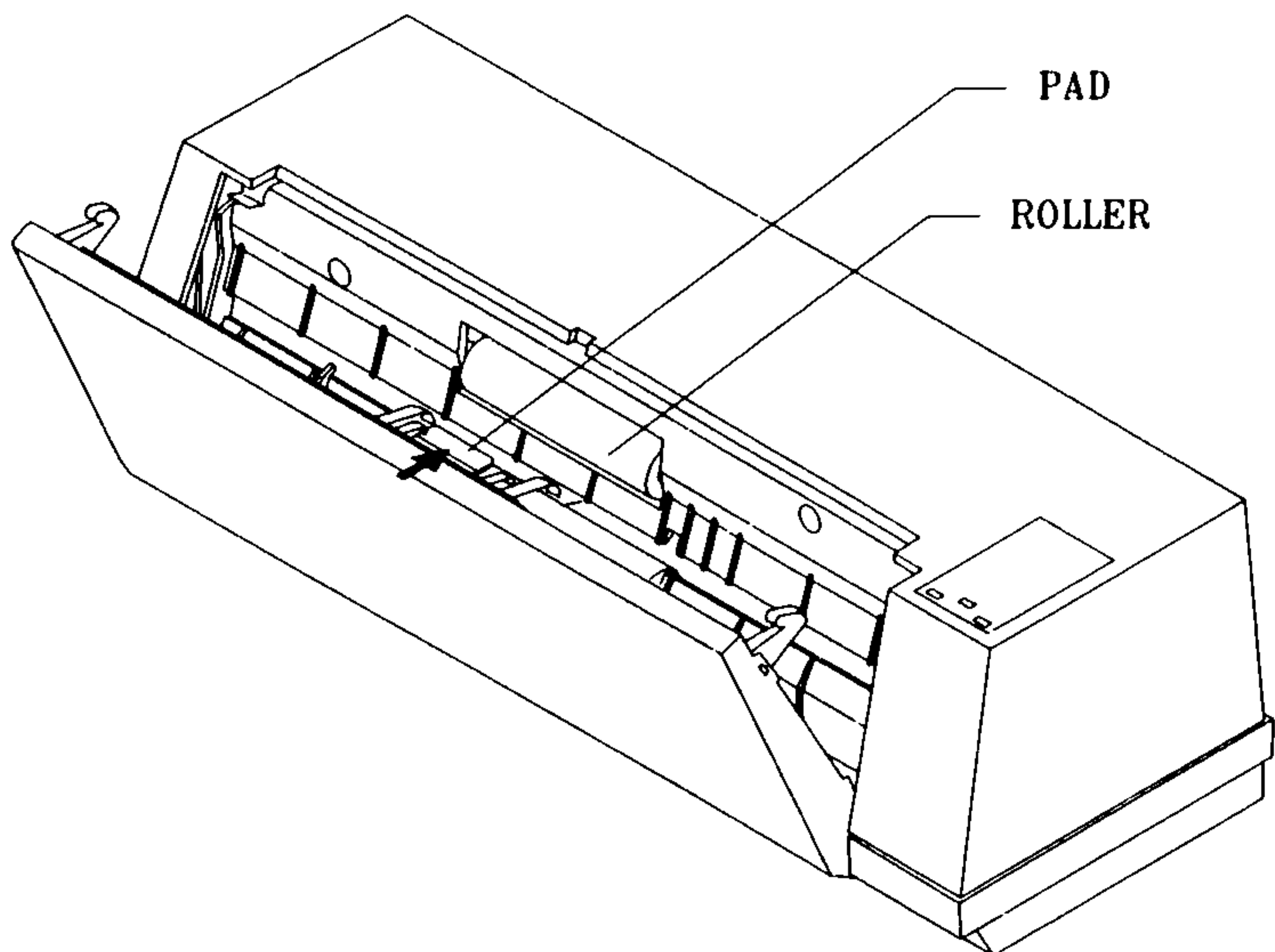


Figure 6-1 Open the front cover

7. Trouble shooting

The scanner automatically performs a simple self test each time it is turned on. This will help spot major system errors in the scanner itself.

When the test is initiated, the READY LED will blink. When the test is completed, the READY LED will glow steadily.

If you have problems with the operation of your scanner, please check the following troubleshooting hints.

7.1. Question and Answer

Question: The LED indicate that the scanner is ready, but the scanner does not response to a scan command form the host computer.

Answer:

- 1) Please check the signal cable is firmly seated, and re-issue the scan command. If there is still no response, please reset the scanner by turning it off and then on again, also rebooting your host computer.
- 2) Check the driver installation if it is correct. You can use DIAG.EXE in “Avision Driver Kit” to check.
- 3) Try to select another Avision proprietary card, I/O port memory address of C3151 card.

Question:Paper becomes jammed during scanning.

Answer: 1) Open front door of the scanner.
2) Pull out the jammed paper carefully.
3) Close the front door.

Question:More than one sheet of paper were fed into the scanner.

Answer: 1) Open front door of the scanner.
2) Remove the multi-fed paper.
3) Close the front door.
4) Flatten the corners and edges; Fan the paper before replacing it in to the paper guide.
5) Check the Feeding Roller condition and follow the cleaning direction if needed.(see chapter 6)

Question:Paper becomes skewed in the scanner.

Answer: Check Feeding Roller condition; Follow the cleaning direction if needed.(see 6.1)

Question:When power on the scanner, it will make noise, and can not be ready.

Answer: There are two possibilities:
1) You didn't remove the shipping retainer from scanner, please remove the shipping retainer first.
2) You didn't place the scanner on a even-flat desktop surface, it will cause scanner can not move properly.

Question: When power on the Scanner, the lamp does not light on.

Answer: The possibilities are as follow:

- 1) The lamp is out of order. In this case, contact your local dealer or distributor to change the lamp. The life time of lamp is about 5000 hours.
- 2) The fuse on main board of the scanner is burned. You can check the main board of the scanner. if the fuse is burned, replace with a new fuse, that are 250V/2A .
- 3) If the fuse burned again after changing, it means the inverter of the lamp is burned. Contact your local dealer or distributor to replace the inverter.

Question: The scanner is power on and ready, but can not use the scanner from application.

Answer: It is a connection problem. We separate to PC and SCSI version to explain.

PC version with IF01.

- 1) Check if the interface card is installed properly.
- 2) Check if the signal cable is seated firmly.
- 3) Check if the AVDRV.SYS is installed in CONFIG.SYS file.

- 4) Use DIAG.EXE in the AVISION directory to check the scanner status. If you get "Initialize scanner failed..." message, that means the port address of IF01 is conflict with other existing card, Please change the port address by setting the DIP switch of IF01, interface card. (Please see Sec3.1.1) If the DIAG.EXE report good status of the scanner that means the connection between PC and scanner is installed properly. Thus, it might be the application problem. (Please follow Sec 7.2 for technical support)

PC version with ScanPlug.

- 1) Check if the signal cable is seated firmly.
- 2) Make sure the ScanPlug is connected on to the scanner end.
- 3) Check if the AVDRV.SYS is installed in your CONFIG.SYS file.
- 4) Normally, AVDRVP.SYS will automatically search the printer port for scanner. If not, it will ask for the printer port address of the scanner. Turn on your scanner before turn on your PC.
- 5) Use DIAG.EXE in the AVISION directory to check the scanner status. If you get "Initialize scanner failed..." message, that means the scanplug does not work fine with your PC or notebook. In our experience,

some PC, especially NoteBook PC, It does not provide proper driven timing of the printer port. Thus, use the AVDRV2.SYS instead. If the DIAG.EXE reports good status of the scanner, that means the connection between PC and scanner is installed properly. Therefore, it might be the application problem.
(Please follow Sec 7.2 for technical support)

SCSI version with DTC 3151 SCSI card

- 1) Check if the interface card is installed properly.
- 2) Check if the signal cable is seated firmly.
- 3) Check if the AS80DOS.SYS and AVASPI.SYS is installed in your CONFIG.SYS file properly.
(See Sec 4.1.2.3)
- 4) Use DIAG.EXE in AVISION directory to check the scanner status. If you get "Initialize scanner failed..." message, that means the SCSI ID of the scanner is conflict with other existing SCSI device, Please change to another SCSI ID(See Fig. 2-3).
If the DIAG.EXE reports good status of the scanner, that means the connection between PC and scanner is installed properly. Therefore, it might be the application problem.
(Please follow Sec 7.2 for technical support)

SCSI version with other SCSI card

- 1) Check if the SCSI card, SCSI cable are installed properly or not.
 - 2) Check if your ASPI manager and AVASPI.SYS are installed in your CONFIG.SYS file properly. (See Sec 4.1.2.2)
The AVASPI.SYS should be installed **after** ASPI manager.
 - 3) Use DIAG.EXE in AVISION directory to check the scanner status. If you get "Initialize scanner failed..." message, that means the SCSI ID of the scanner is conflict with other existing SCSI device, please change to another SCSI ID(See Fig. 2-3).
If the DIAG.EXE reports good status of the scanner, that means the connection between PC and scanner is installed properly. Therefore, it might be the application problem. (Please follow Sec 7.2 for technical support)
 - 4) Currently, as we know, Avision scanner can not work with Future Domain SCSI card.
- * Most Windows applications support TWAIN or ISIS driver for scanner. Avision provided TWAIN and ISIS driver for all Avision scanners. Please check if your application can support TWAIN or ISIS driver for status.

Question:Getting image from the Scanner isn't a problem, but when scanning, the scanner or system often hangs.

Answer: Please check

- 1) If the cable is seated firmly.
- 2) Only two SCSI terminators can be connected to your SCSI daisy chain. One is at the end of the SCSI device, another is already in your host adapter.

Question:While scanning the image, the scanner often makes noise or scan back and forth.

Answer: Please choose lower speed from the TWAIN user interface for low speed PC.

Question:When I do image scanning, the picture always comes out to be too dark.

Answer:

- 1) Modified the Gamma setting to 2.2 on your printer, and 1.8 for your monitor from the application.
- 2) Use Brightness setting from the TWAIN user interface to get a brighter image.

Question:The scanner works well but the line art seems to be much thicker than the original.

Answer: Use the Brightness or Threshold setting to control the line art image.

7.2. Technical Service

Technical support for Avison scanner is provided through the Avison Technical Assistance Center (ATAC). Before contact ATAC please make sure you have the following information:

- * Scanner serial & revision number(located on the bottom of the scanner).
- * The hardware configuration (e.g. Your host CPU type, RAM size, free disk space, display card, interface card...)
- * The name and version of your software application.
- * The name, version and date of your scanner driver.

Please call us at:

Telephone number : 886-35-782388.

Fax number : 886-35-777017

BBS : 886-35-786149

CompuServe : 101400,444

Internet: avision@shts.seed.net.tw

- Note:
1. You can find the latest driver and document in Avison BBS. Our service is 24 hours a day. The communication setting is 2400-19200 BPS, 8N1S.
 2. You will ask to enter your first name, last name and password at all times. With the same name and password.(any, if first time).
 3. For first time user, you will need to request with your full name and password ready. Therefore, the same name and same password are required to enter BBS.

8. Specification

All specifications are subject to change without notice.

The following can not be properly fed by ADF:

- * Paper clip or staple attached
- * Paper with ink that are not dry
- * Paper with inconsistent thickness, such as envelopes
- * Paper with wrinkles, curls, folds or tears
- * Tracing paper
- * Coated paper
- * Carbonless paper
- * Paper narrower than 3.5" or wider than 8.5"
- * Items that are other than papers, such as cloth, metal or OHP film.
- * Photographic paper
- * Notched paper
- * Paper with odd(non-rectangular) shape
- * Very thin paper

8.1. Model: AV100II

Scanner Type:	Desktop Sheet-fed
Optical Resolution:	up to 300 dpi
Scanning modes:	Binary(single-bit, line art, black & white) mode 64-step Halftone mode. (4 patterns) 8 bits/256 level gray scale
Document Feed:	Automatic Documentation Feeder(ADF) Manual (single) Feed(3.5"x 2" documents)
ADF Capacity:	up to 10 pages
Scanning speed:	6 pages per minute(200 dpi, line art, letter size)
Document size:	Letter, legal, A4, B5, A5, business card
Min. document size:	4" x 3.5"(ADF) 3.5" x 2" (manual feed)
Paper:	16 lb. to 24 lb.
Interface:	Avision proprietary card
Power Requirement:	110 - 220 VAC(auto-switching)
Power Consumption:	30 watts
Dimensions: (WxHxD)	293 mm x 89 mm x 107 mm
Weight:	3.5 lb.

8.2.Model: AV100P

Scanner Type:	Desktop Sheet-fed
Optical Resolution:	300 dpi x 300 dpi (H x V)
Scanning modes:	Binary(single-bit, line art, black & white) 64-step Halftone(4 patterns) 8 bits/256 level gray scale mode
Document Feed:	Automatic Document Feeder (ADF)Manual(single) Feed (3.5"x 2" documents)
ADF Capacity:	up to 10 pages
Scanning speed:	6 pages per minute(200 dpi, line art, letter size)
Document size:	Letter, legal, A4, B5, A5, business card
Min. document size:	4" x 6" (ADF) 3.5" x 2" (manual feed)
Max. document size:	8.5" x 14"
Paper:	16 lb. to 24 lb.
Interface:	SPP/EPP (Enhance printer port)
Power Requirement:	110 VAC or 220VAC
Power Consumption:	18 watts(12 VDC, 1.5A)
Dimensions: (WxHxD)	293 mm x 89 mm x 107 mm
Weight:	3.5 lb. (1.5 kg)