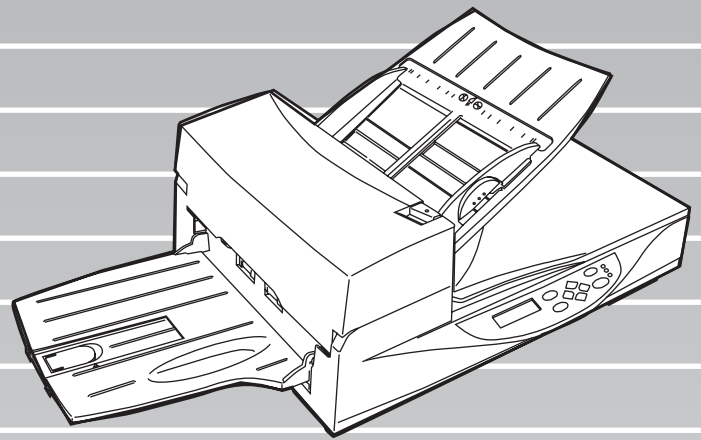




P3PC-E832-06EN

fi-4340C Image Scanner

Operator's Guide



Revisions, Disclaimers

Edition	Date published	Revised contents
01	October, 2001	First edition
02	March, 2003	Second edition
03	August, 2003	Third edition
04	October, 2004	Fourth edition
06	June, 2006	Sixth edition
Specification No. P3PC-E832-06EN		

NOTICE

This manual is for fi-4340C equipped with both USB and SCSI interfaces. Explanations related to the USB interface do not apply to fi-4340C equipped only with SCSI interface.

Regulatory Information

■ FCC declaration

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the 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/TV technician for help.

FCC warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTICE

- The use of a non-shielded interface cable with the referenced device is prohibited. The length of the parallel interface cable must be 3 meters (10 feet) or less. The length of the serial interface cable must be 15 meters (50 feet) or less.
- The length of the power cord must be 3 meters (10 feet) or less.

■ Canadian DOC Regulations

This digital apparatus does not exceed the Class B limit for radio noise emissions from digital apparatus set out in the Radio interference Regulations of the Canadian Department of Communications.

This Class B digital apparatus complies with Canadian ICES-003.

Le présent appareil numérique pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique dicté par le ministère des Communications du Canada.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

■ Bescheinigung des Herstellers / Importeurs

Für den fi-4340C wird folgendes bescheinigt:

- In Übereinstimmung mit den Bestimmungen der EN45014(CE) funkentstört
- Maschinenlärminformationsverordnung 3.GPSGV: Der höchste Schalldruckpegel beträgt 70 dB (A) oder weniger, gemäß EN ISO 7779.

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As an ENERGY STAR® Partner, PFU LIMITED has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.


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



■ Use in High-safety Applications

This product has been designed and manufactured on the assumption that it will be used in office, personal, domestic, regular industrial, and general-purpose applications. It has not been designed and manufactured for use in applications (simply called "high-safety applications" from here on) that directly involve danger to life and health when a high degree of safety is required, for example, in the control of nuclear reactions at nuclear power facilities, automatic flight control of aircraft, air traffic control, operation control in mass-transport systems, medical equipment for sustaining life, and missile firing control in weapons systems, and when provisionally the safety in question is not ensured. The user shall use this product with adopting measures for ensuring safety in such high-safety applications. PFU LIMITED assumes no liability whatsoever for damages arising from use of this product by the user in high-safety applications, and for any claims or compensation for damages by the user or a third party.

■ About the use of mercury

	Lamp(s) inside this product contain mercury and must be recycled or disposed of according to local, state, or federal laws.
---	---

To avoid unexpected injury, read the following carefully.

Doing the following actions may result in serious personal injuries:

- Do not put the substance contained in the lamp in your mouth as it has mercury
- Do not incinerate, crush, or shred the lamps or scanner parts.
- Do not breathe the chemical liquid contained in the scanner lamps.

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Copying of paper money, coins, securities and passports issued by government authorities, licenses and permits issued by public authorities and private organizations, official documents, and private documents etc. is illegal and is subject to punishment.

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References to Operating systems (OS) are indicated as follows:

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Windows Me	Microsoft® Windows® Millennium Edition operating system
WindowsNT 4.0	Microsoft® Windows NT® 4.0 Server operating system, Microsoft® Windows NT® 4.0 Workstation operating system
Windows 2000	Microsoft® Windows® 2000 Professional operating system
Windows XP	Microsoft® Windows® XP Professional operating system, Microsoft® Windows® XP Home Edition operating system

Where there is no distinction between the different versions of the above operating system, the general term “Windows” is used.

■ Manufacturer

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Note, Liability

READ ALL OF THIS MANUAL CAREFULLY BEFORE USING THIS PRODUCT. IF THIS PRODUCT IS NOT USED CORRECTLY, UNEXPECTED INJURY MAY BE CAUSED TO USERS OR BYSTANDERS.

Also, store this manual in a safe place so that it can be easily referred to during use of this product.

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Preface

This manual explains how to use the fi-4340C image scanner.

This manual contains chapters on the following topics:

COMPONENTS
INSTALLATION AND CONNECTIONS
HOW TO INSTALL THE DEVICE DRIVER
OPERATING INSTRUCTIONS
ADF DOCUMENT SPECIFICATION
OPERATOR PANEL MESSAGE
SETUP MODE
TROUBLESHOOTING
CONSUMABLES AND OPTIONS
SCANNER SPECIFICATIONS

It also contains a Glossary of Terms and an Index.

Refer to the Cleaning and Maintenance Guide for information about the routine operation of the fi-4340C.

The Cleaning and Maintenance Guide contains chapters on OPERATING INSTRUCTIONS, CLEANING, REPLACEMENT OF PARTS, ADJUSTMENT and TROUBLESHOOTING.

The fi-4340C is a very fast and highly functional color image scanner developed for high quality color image processing, using charge-coupled device (CCD) color image sensors. This scanner features high-speed duplex scanning with an automatic document feeder (ADF).

Conventions

Important information that requires special attention is indicated as follows:

WARNING

WARNING indicates that serious personal injury may result if you do not follow a procedure correctly.

CAUTION

CAUTION indicates that minor personal injury, loss of data, or damage to the scanner may result if you do not follow a procedure correctly.

NOTICE

A **NOTICE** provides “how-to” tips or suggestions to help you perform a procedure correctly.



A **TRIANGLE** symbol indicates that special care and attention is required.

The drawing inside the triangle shows the specific caution.



A **CIRCLE** with a diagonal line inside shows action which users may not perform.

The drawing inside or under the circle shows the specific action that is not allowed.



Outline characters on a colored background show instructions users should follow.

It may also include the drawing that shows the specific instruction.

■ **Warning Label**



The glass surface inside the ADF becomes hot during the operation. Be careful not to touch the glass surface inside the ADF.

CAUTION

Do **NOT** remove from the scanner, stain or scratch the warning labels.

■ **About Maintenance**

The user must not perform repairs on this scanner.

Contact the store where you purchased the scanner or an authorized FUJITSU Image Scanner service provider to make repairs to this product.

Precautions

This section describes precautions to follow when installing the scanner.

To ensure the longevity and proper functioning of your scanner, do not install the scanner in the places and environments described below.

■ Warning

Important warnings employed in this manual are as follows.

Do not damage the power cable.



Damage to the power cable may result in fire or electric shock. Do not place heavy objects on power cables, or pull, bend, twist, heat, damage or modify power cables. Also do not use damaged power cables or power plugs, or when the wall socket is loose.

Use only the specified power cable or extension cable.



Use only the specified power cable or connector cables. Failure to use the correct cables might cause electric shock and equipment failure.

Use this scanner only at the indicated power voltage. Do not connect to multiple-power strips.



Use this scanner only at the indicated power voltage and current. Improper power voltage and current might cause fire or electric shock. Also, do not connect to multiple-power strips.

Wipe any dust from the power plug.



Wipe off any dust from metal parts on the power plug or metal fitting with a soft, dry cloth. Accumulated dust might cause fire or electric shock.

Do not install the device in locations subject to oil smoke, steam, humidity, and dust.



Do not install the scanner in locations subject to oil smoke, steam, humidity, and dust. Doing so might cause a fire or electric shock. Installation in areas with high levels of oil smoke, steam, humidity, or dust may result in fire or electric shock.

Do not use the scanner if you smell a strange odor.



If you detect heat coming from the device or detect other problems such as smoke, strange smells or noises, immediately turn off the scanner and then disconnect its power plug. Make sure that the smoking has stopped, and then contact the store where you bought the scanner or an authorized FUJITSU scanner service provider.

Ensure that water or foreign matter does not enter the equipment.



Do not insert or drop metal objects into the scanner. Do not scan wet documents or documents with paper clips or staples. Do not splash or allow the scanner to get wet.



If foreign objects (water, small metal objects, liquids, etc.) get inside the scanner, immediately turn off the scanner and disconnect the power plug from the power outlet, then contact the store where you purchased the scanner or the Maintenance Service Center. Pay particular attention to this warning in households where there are small children.



Do not touch the inside of the scanner unless necessary.



Do not take apart or modify the scanner. The inside of the scanner contains high-voltage components. Touching these components might cause fire or electric shock.

Before moving the scanner, disconnect the power plug from the power outlet.



Do not move the scanner with the power and interface cables connected as this might damage the cables, causing fire, electric shock or injuries. Before moving the scanner, be sure to disconnect the power plug from the power outlet, and disconnect data cables. Also, make sure that the floor is free of obstructions.

Switch power OFF if the equipment is damaged.



If the equipment is dropped, or covers etc. have been damaged, switch power supply OFF, remove the plug from the socket, and call your dealer or maintenance service center.

Do not place in wet areas.



Do not place the scanner where liquid spills may occur.

■ **Caution**

Important cautions employed in this manual are as follows.

Do not touch the power cable with wet hands.



Do not touch the power plug with wet hands. Doing so might cause electric shock.

Earth the equipment.



This equipment must be earthed. Always connect the power cable to a 3-pin socket. If earthing is not possible, call your dealer or maintenance service center.

Do not install the scanner on unstable surfaces.

Install the scanner on a desk so that none of its parts protrude outside of the desktop. Also, make sure that the scanner is installed on a flat, level surface. Do not install the scanner on unstable surfaces. Install the scanner on a level surface that is free of vibration to prevent it from falling.



Install the scanner on a strong surface that will support the weight of the scanner and other devices.

Firmly insert the power plug.

Firmly insert the power plug into the power outlet as far it can go.

Do not block the ventilation ports.

Do not block the ventilation ports. Blocking the ventilation ports generates heat inside of the scanner, which may result in fire or scanner failure.

Do not place heavy objects or climb on top of the scanner.

Do not place heavy objects on the scanner or use the scanner's top surface for performing other work. Improper installation might cause injuries.

Before moving the scanner, disconnect the power plug from the power outlet.

Do not move the scanner with the power and interface cables connected as this might damage the cables, causing fire, electric shock or injuries. Before moving the scanner, be sure to disconnect the power plug from the power outlet, and disconnect data cables. Also, make sure that the floor is free of obstructions.

Protect the scanner from static electricity.



Install the scanner away from strong magnetic fields and other sources of electronic noise. Also, protect the scanner from static electricity as this might cause the scanner to malfunction.

Be careful not to get neckties, necklaces, hair, etc. entangled in the scanner.



You may get injured if your clothing, neckties, or hair, etc. is entangled in the moving components such as gears and rollers.

Disconnect the power plug from the power outlet when the scanner is not used for a long period of time.



When the scanner is not used for a long period of time, be sure to disconnect the power plug from the power outlet for safety.

Do not install the scanner in direct sunlight.



Do not install the scanner in the direct sunlight or near heating apparatus. Doing so might cause excessive heat to build up inside the scanner, causing fire or scanner trouble. Install the scanner in a well-ventilated location.

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COMPONENTS

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SETUP MODE

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CHAPTER 10

SCANNER SPECIFICATIONS

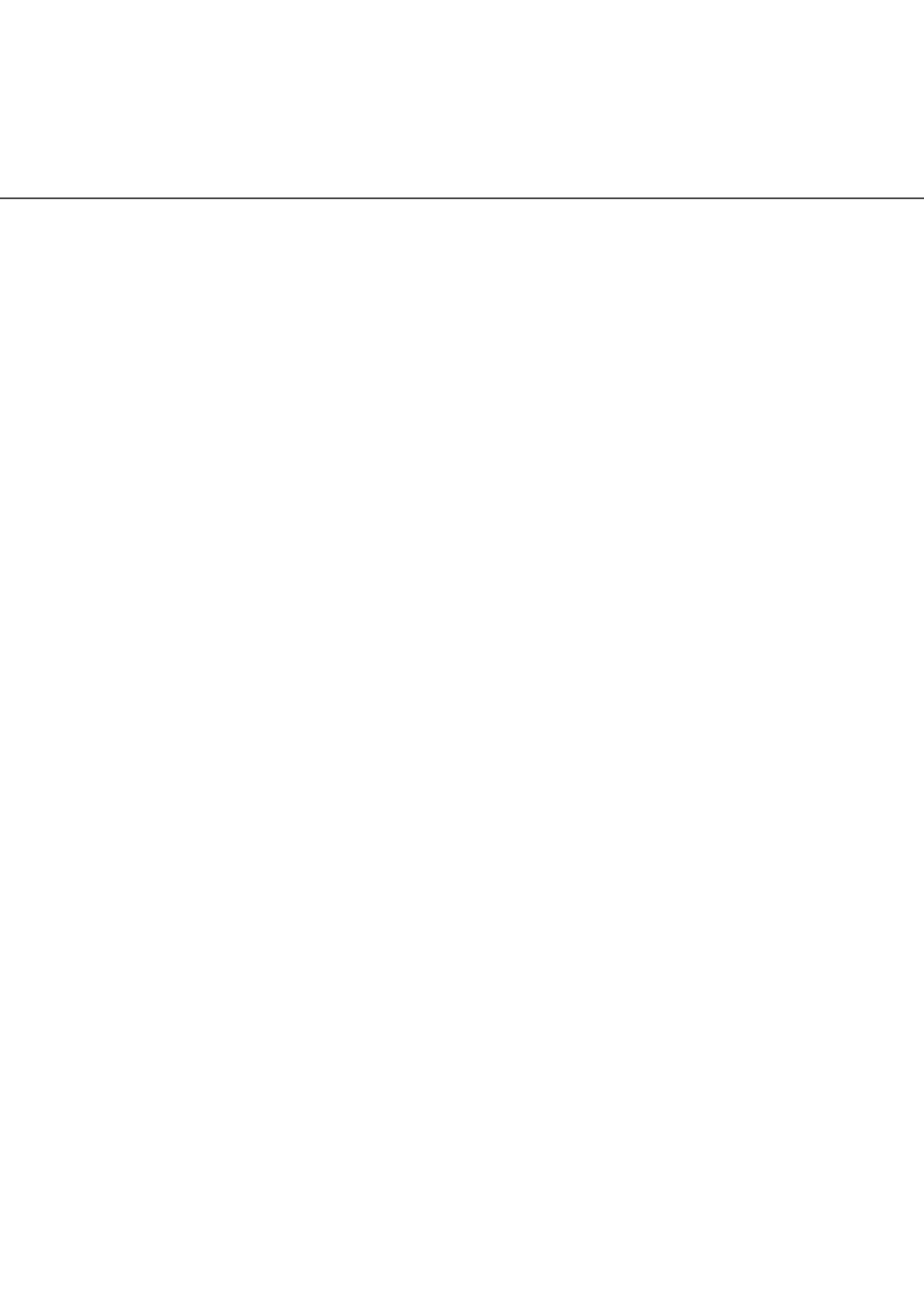
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GLOSSARY OF TERMS

GLOSSARY

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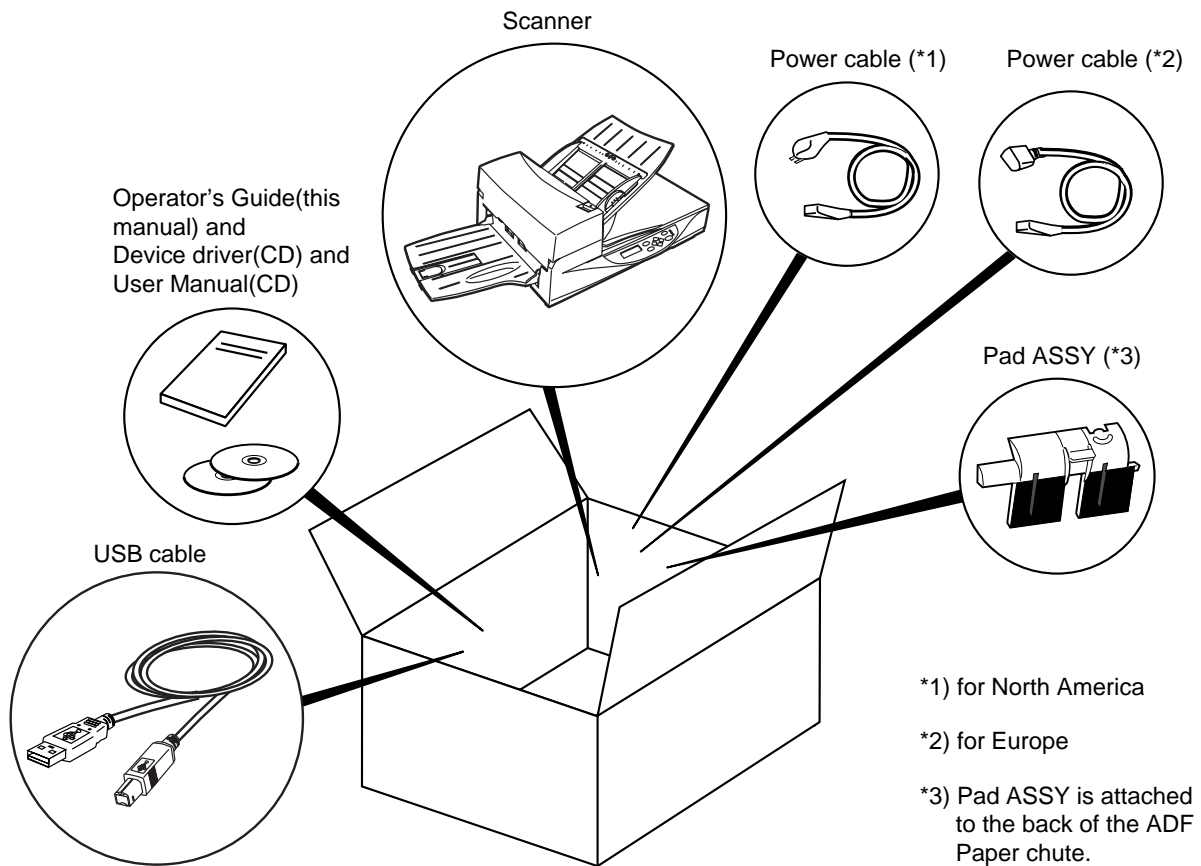
COMPONENTS

This chapter describes checking the Components, Units and Assemblies of the scanner, and operator panel arrangement, and the function of parts.

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Checking the Components

These high precision components must be handled carefully.
Confirm that all the components shown in the following figure have been received.
If any component is missing, please contact your sales agent.



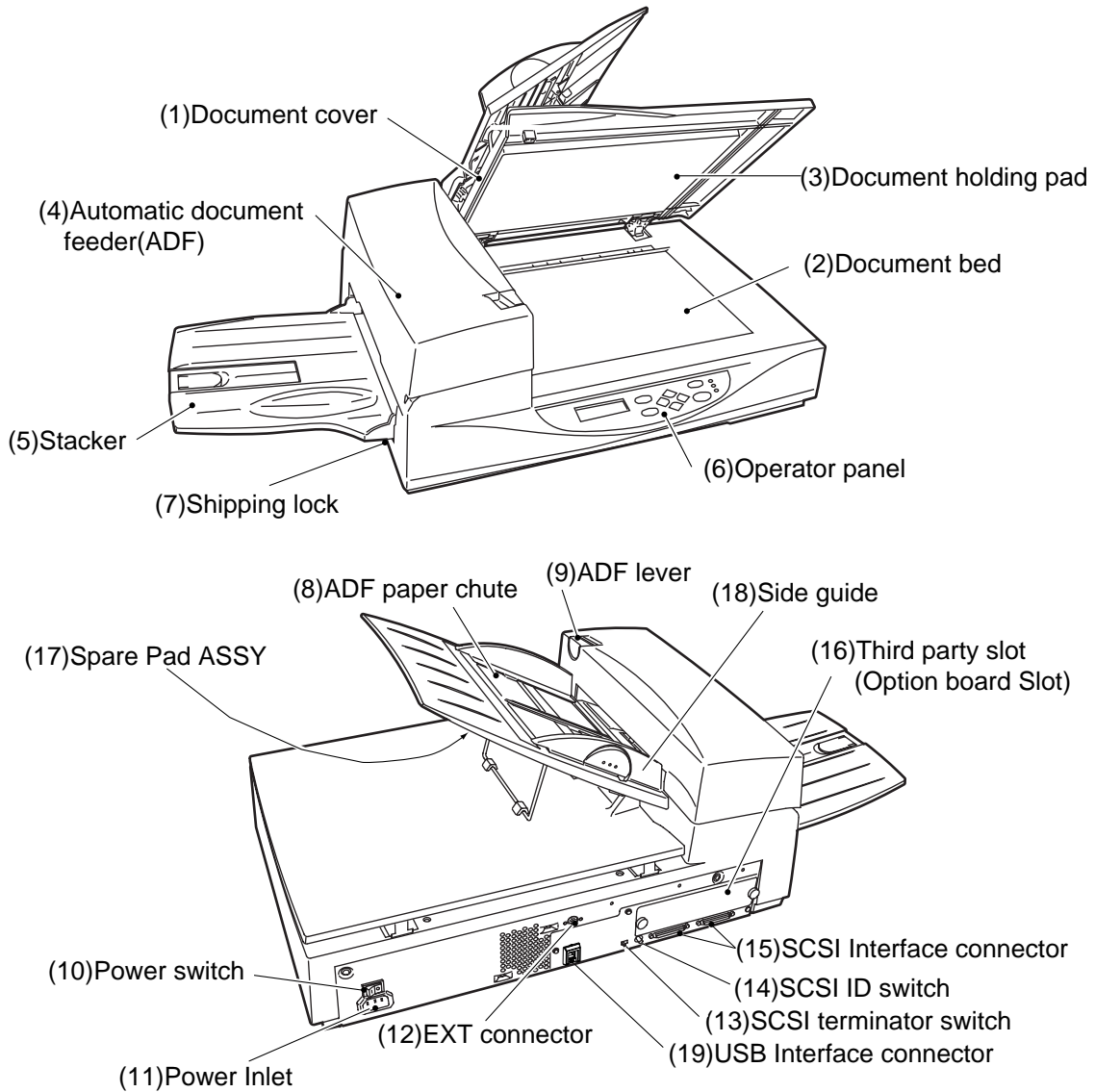
NOTICE

The CD-ROMs contains "Cleaning and Maintenance" and this manual.

Units and Assemblies

This section shows the exterior view and assemblies of the scanner. This section also provides the name of each part and describes its functions.

■ Units

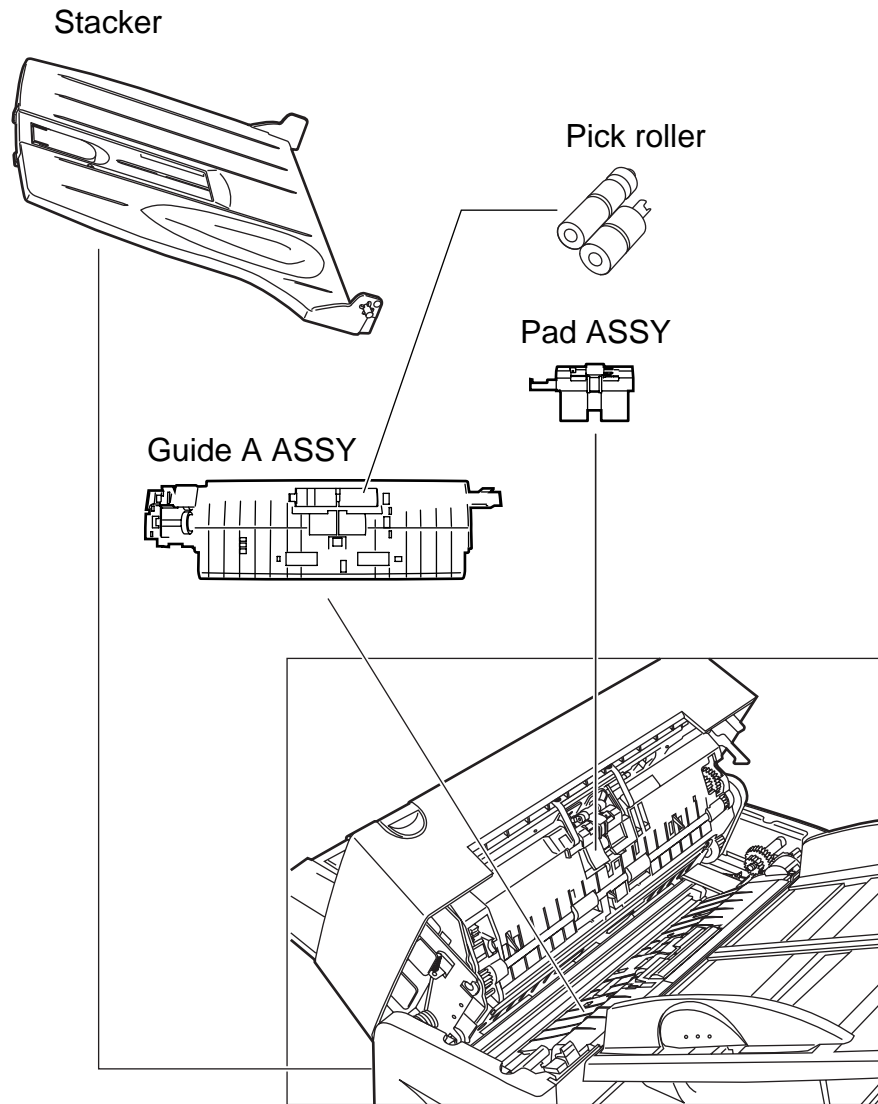


NOTICE

The Shipping lock should be switched to the operating position when the scanner is to be used. Refer to Chapter2 "Placing the Shipping lock (page 2-3)" for details.

No .	Part	Function
1	Document cover	Closes over and keeps in place the document to be read.
2	Document bed	Holds document to be read. Also called Flatbed (FB).
3	Document holding pad	Presses document to the Document bed.
4	Automatic document feeder (ADF)	Automatically feeds documents to the reading position.
5	Stacker	Stacks the read documents.
6	Operator panel	Contains indicator panel that indicates scanner status.
7	Shipping lock	Secures the carrier unit. Set to locked position when moving scanner.
8	ADF paper chute	Holds the documents to be fed by the automatic document feeder (ADF).
9	ADF lever	Opens/closes the ADF to enable the removal of documents jammed in the feeder.
10	Power switch	Turns the power On or Off.
11	Power inlet	Connects to an AC power outlet with the power cable.
12	EXT connector	Connects to an optional imprinter.
13	SCSI terminator switch	Set to ON when the image scanner is the final device on the SCSI daisy chain. Otherwise, set to OFF.
14	SCSI-ID switch	Sets the SCSI ID. (Default ID is 5.)
15	SCSI Interface connectors	Connect to the host system with SCSI interface cables.
16	Third party slot	A Fujitsu VIDEO INTERFACE BOARD or fi-475CMP3(JPEG COMPRESSION BOARD) is installed.
17	Spare Pad ASSY	Spare pad assembly. (One spare pad assembly is provided as the default setting.)
18	Side guide	It is adjusted to the width of the paper in order not to scan skewed pages.
19	USB interface connector	Used for connecting a USB interface cable from a PC.

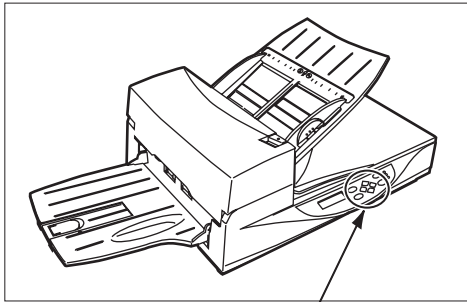
■ Assemblies



Operator Panel

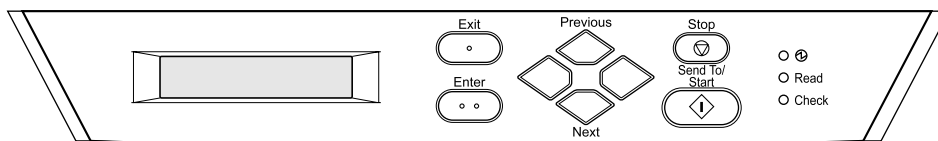
The operator panel is located on the upper right hand side of the scanner. The panel consists of an LCD display (16 characters x 2 lines), LEDs and buttons.

■ Arrangement








Operator panel

Operator panel



■ Button and LED

Name of the button and LED		Function
Button	Next 	Displays the next LCD screen.
	Previous 	Displays the previous LCD screen.
		Moves the cursor to the left.
		Moves the cursor to the right.
	Exit	When you are entering settings on the Operator panel, pressing this button returns you immediately to the Scanner Ready screen.
	Enter	Enters the parameter currently selected by the cursor.
	Send To/ Start	Operational only when Manual start mode is set or the Read lamp lights; Starts the reading when video interface option is used. Some application software packages make use of this button.
	Stop	When the Check LED lights, pressing this button releases the error status (turns off Check and returns to the Scanner Ready screen). Operational only during the reading operation; stops the reading when the video interface option is used. Also turns off the Check lamp.
LED		Indicates that the scanner is On.
	Read	Indicates the scanner is reading or ready to read.
	Check	If lit, this indicates that an alarm occurred. Pressing the Stop button turns the Check lamp Off. If it blinks at one second intervals, this means that a jam or Multi feed has been detected. If the problem is jammed paper, removing the jammed paper turns off the Check lamp. If the problem is Multi feed, pressing the Stop button turns off the Check lamp. If it blinks at four seconds intervals, this means that cleaning the ADF is necessary.

INSTALLATION AND CONNECTIONS

The chapter describes how to install and connect the scanner.

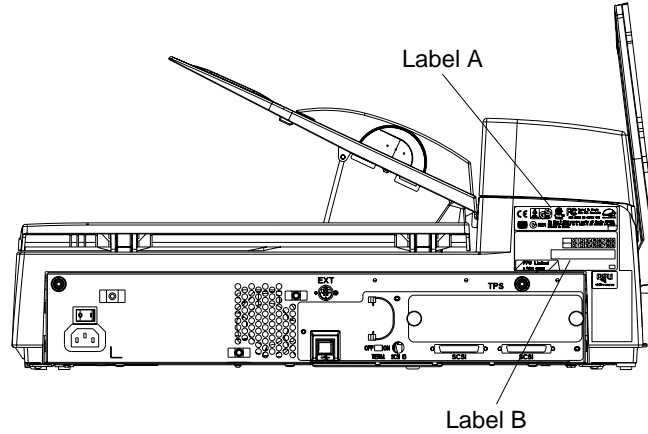
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Placing the scanner.....2-3

Confirm of the Manufacturing Labels

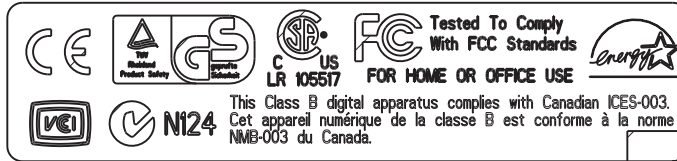
This section describes how to check the labels.

Position of two labels



Label A (Example; your actual label may differ)

Indicates regulations and standards to which this scanner conforms.



Label B (Example; your actual label may differ)

Indicates product information as follows:

Model name	MODEL	fi-4340C	<table border="1"> <tr> <td>Rev. Label</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> </tr> <tr> <td></td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> </tr> <tr> <td></td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> </tr> </table>	Rev. Label											0	1	2	3	4	5	6	7	8	9		0	1	2	3	4	5	6	7	8	9		0	1	2	3	4	5	6	7	8	9
Rev. Label																																														
	0	1		2	3	4	5	6	7	8	9																																			
	0	1	2	3	4	5	6	7	8	9																																				
	0	1	2	3	4	5	6	7	8	9																																				
Specification number	PART NO.	PA03277-B002																																												
Serial number	SER. NO.	*****																																												
Production date	DATE	***** 15Kg																																												
Weight	100-240V, 1.6-0.7A																																													
	50/60Hz, 1 φ																																													
PFU Limited		MADE IN INDONESIA																																												

NOTICE

Serial Number for dual interface(i.e. SCSI/USB) model is 700001 or later.

Placing the scanner

This section describes how to place the scanner.

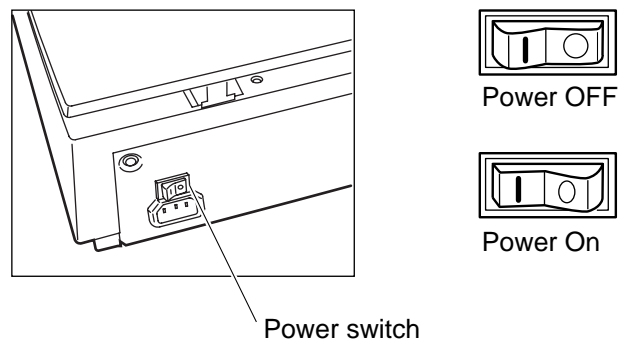
1. Place the Shipping lock.
2. Connect the interface cable (USB/SCSI).
3. Set the SCSI ID and the SCSI terminator (When using SCSI interface).
4. Mount the Stacker.
5. Connect the power cable.

Turn the power switch off, before placing the scanner.

Turn the power switch off as follows:

■ Turning the power switch Off

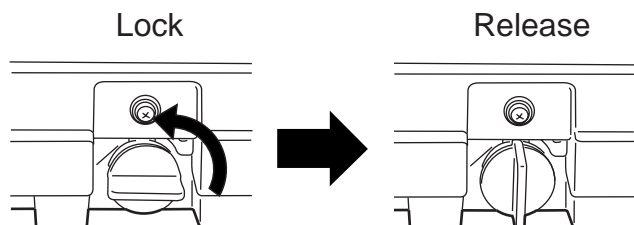
1. Press the “O” side of the power switch to turn the power Off.



■ Placing the Shipping lock

To keep the scanner from being damaged during shipping, the carrier unit is fixed with a Shipping lock. After placing the carrier unit where it will be installed, release the Shipping lock as explained below.

1. Turn the Shipping lock 90 degrees counterclockwise.



CAUTION

Before moving the scanner, make sure that the Shipping lock is locked to prevent possible damage. Before locking the Shipping lock, make sure that the carrier has returned to the home position.

■ Connecting the interface cable

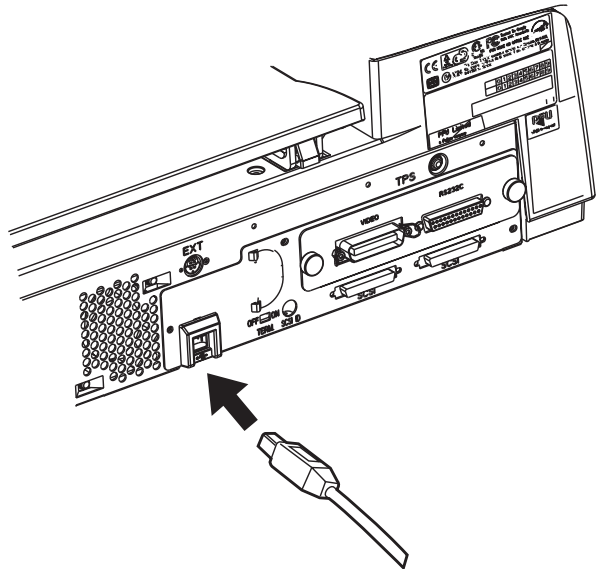
When running Windows 95 or Windows NT 4.0, connect the SCSI interface cable. When running Windows 98, Windows ME, Windows 2000 or Windows XP, connect either USB or SCSI cable.

NOTICE

1. If the scanner is connected to the computer with both interface cables, USB interface connection will be used.
2. Do not connect the scanner to 2 PCs, one with USB Interface and the other one with SCSI interface.

When connecting the scanner with USB interface cable.

1. Connect the USB interface cable to the scanner.
2. Connect the other end of the USB interface cable to the computer.

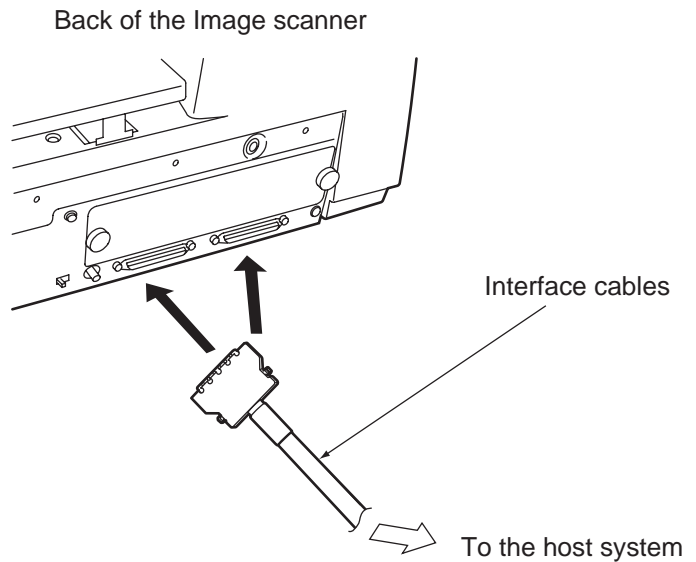


NOTICE

1. Be sure to use USB cable which is provided with the scanner.
2. When connecting to a USB hub, use the first stage hub that is closest to the computer.
If you use a the second or later hub stages, the scanner may not operate properly.

When connecting the scanner with SCSI interface cable.

1. Connect the SCSI interface cable to the scanner.
2. Connect the other end of the SCSI interface cable to the computer.



NOTICE

1. Factory default for the SCSI terminator is On. If the scanner is in the middle of the daisy chain or of two devices, turn the scanner termination Off via the operator panel.
2. The factory default for the SCSI ID is 5. If the ID of the scanner is the same as the other device, change the ID via the operator panel or change the ID of the other device.

■ Setting the SCSI ID and the SCSI Terminator (when using SCSI interface cable)

The default of the SCSI ID is 5. The SCSI ID is set by using the Setup mode of the operator panel.

1. Turn the power Off by pressing the “0” side of the power switch.
2. Turn the SCSI-ID switch on the rear of the image scanner to set the SCSI-ID.

ID No.	Description
0 to 7	Can be set
8, 9	Return to default (Available ID NO. = 5) if set to 8 or 9.

3. Set the SCSI terminator switch on the rear of the image scanner to ON or OFF.

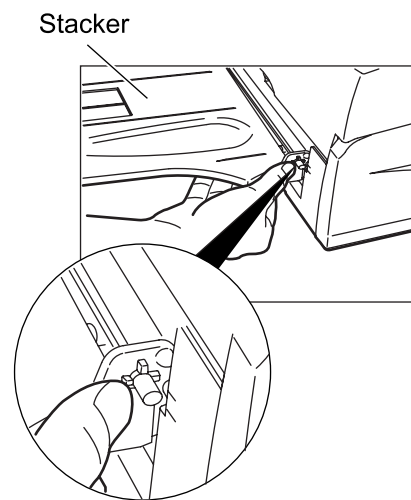
NOTICE

The SCSI terminator switch is set to ON before shipment from the factory. When the image scanner is located in the middle of a SCSI daisy chain, change the terminator setting to OFF.

When the image scanner is located at the end the daisy chain, set the terminator to ON.

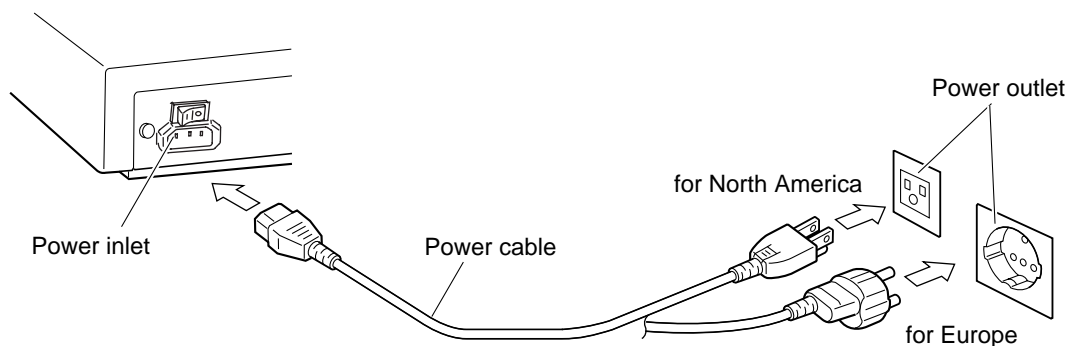
■ Mounting the Stacker

1. Press in the bottom of the pins on both sides of the stacker with your fingertips, and insert the stacker pins until they slot into the holes on the image scanner.



■ Connecting the power cable

1. Connect the power cable to the power inlet of the device and a power outlet.



HOW TO INSTALL THE DEVICE DRIVER

This chapter describes how to install this software.

Procedure.....3-2

Procedure

For details on how to install the device driver, refer to the attached installation guide and the device driver's user's guide in device driver's CD.

OPERATING INSTRUCTIONS

This chapter describes this scanner's operations.

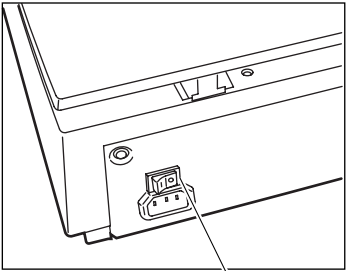
Refer to the "Cleaning and Maintenance" manual for routine scanner maintenance.

Turning the Power On	4-2
Waking up the Scanner from the Low Power Mode	4-3
Manual Feed Mode Setting	4-4
Loading Documents on the ADF	4-5
Loading Documents on the Document bed	4-9
Loading Documents Larger than the Document bed	4-10
Reading a Page from a Thick Book.....	4-11
Clearing Paper Jams	4-12

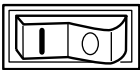
Turning the Power On

This section describes how to turn the power On.

Press the “I” side of the power switch. The power turns On and the green Power lamp at the operator panel lights.



Power OFF



Power On

Waking up the Scanner from the Low Power Mode

This section describes how to wake up the scanner from the Low Power Mode.

To wake up the Scanner, simply press a button, set the papers on the ADF, or send a command to scan from the host computer.

NOTICE

As an ENERGYSTAR[®] partner, PFU Limited declares that this scanner meets the ENERGYSTAR[®] guidelines for energy efficiency.

Manual Feed Mode Setting

In this mode, the scanner waits for some predetermined time before issuing a “Paper Empty” message after all documents are read. This predetermined time (time-out limit) is specified in the Setup mode. Therefore, you can set the next documents on the ADF paper chute without interrupting the reading operation.

The procedures for setting the manual feed mode are as follows:

1. Turn the power On and verify that “Scanner Ready” is displayed on the LCD.

Screen M1

```

R e a d y           X X X X
                    X X X X
                    X X 0 >

```

2. Press **Next** then the scanner displays Screen M2.

Screen M2

```

M o d e   S e l e c t   0
☐ R e a d i n g   M o d e

```

3. Press **Next** then the scanner displays Screen M3

Screen M3

```

M o d e   S e l e c t   1
M   M a n u a l   F e e d ?

```

4. Press **Enter** then the scanner displays Screen M4.

Screen M4

```

M 0 1   M a n u a l   F e e d
= N o / Y e s

```

5. Select “Yes” by pressing **◊**. Then press **Enter**.
6. Press **Exit** to return to the “Scanner Ready” screen. Note that “Manual Feed” is shown on the LCD. This means that the scanner is in Manual Feed mode.

Screen M1

```

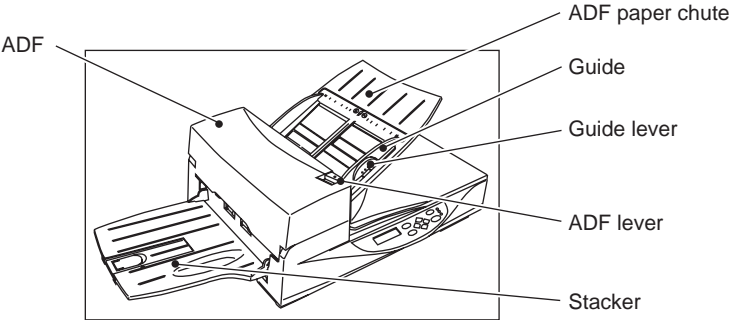
M a n u a l           X X X X
R e a d y           X X X X
                    X X 0 >

```

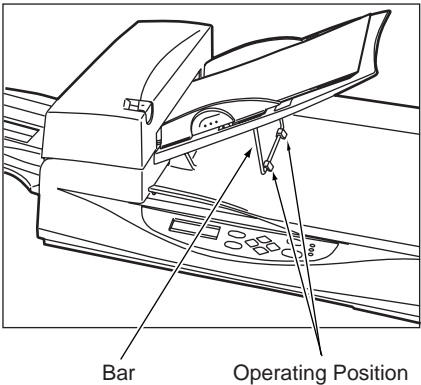

Loading Documents on the ADF

NOTICE

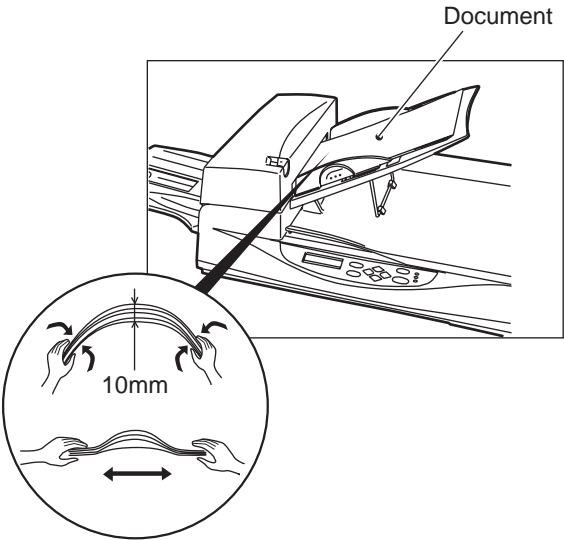
Be sure to change the position of the Shipping lock according to the Chapter2 "Placing the Shipping lock (page 2-3)" procedure before operation.



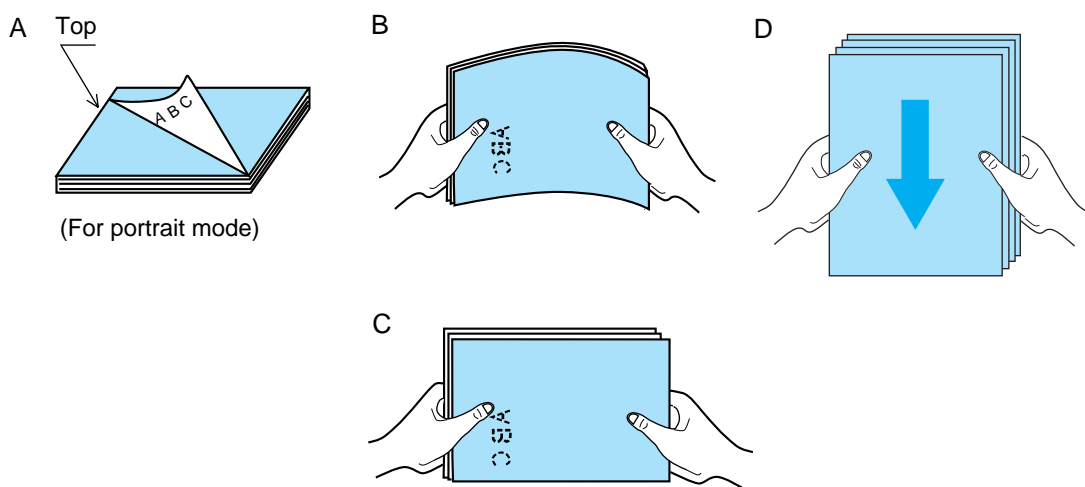
1 Lift up the ADF paper chute and lock the bar in its operating position.



2 Fan the sheets before setting a stack of documents on the ADF paper chute. For details see the next page.



- Place the documents face down, with the top to the left as shown in A. (The long side is the top for landscape mode and the short side is the top for portrait mode.)
- Holding both ends with both hands, lift the documents.
- Hold the documents tightly with your left hand and bend them as shown in B.
- Grip the documents tightly with your right hand, loosen the grip of your left hand, and straighten as shown in C.
- Even up the feed edge of the batch of paper as shown in D.



NOTICE

Reduce the batch size of the documents if Multi feed or mispick occurs.

NOTICE

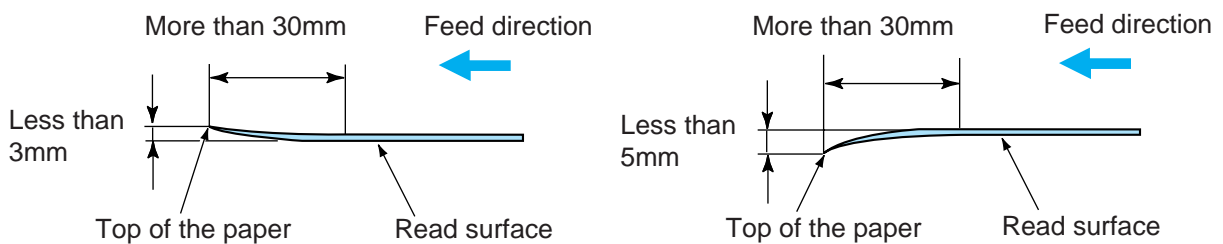
Note the following when preparing the paper.

- Remove paper clips and staples. Flatten the staple holes.
- A preliminary document feed test may be necessary to avoid unexpected errors. If document slip or jam in the ADF (JAM error) or Multi feed occurs frequently, read the documents manually using the Document bed.

The following documents may be difficult to be scanned successfully with the ADF:

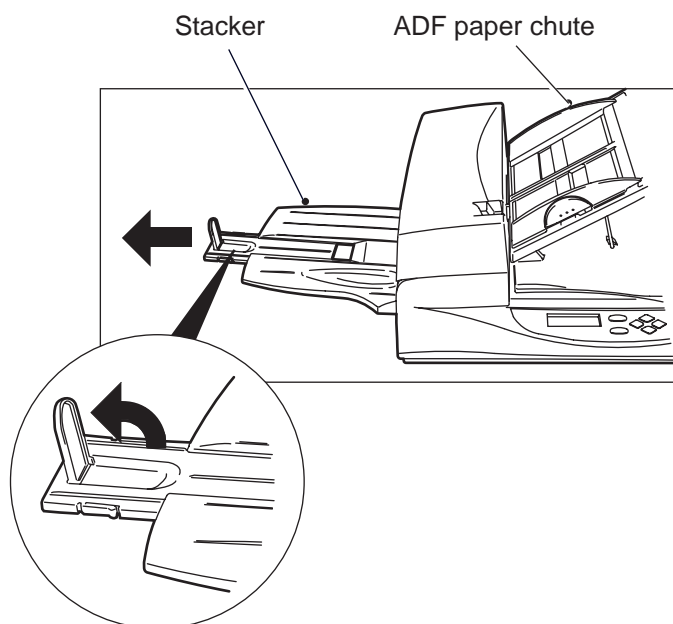
- Documents of non-uniform thickness (e.g. envelopes)
- Wrinkled or curled documents
- Folded or torn documents
- Tracing paper
- Coated paper
- Carbon paper
- Carbonless paper

- Photosensitive paper
- Perforated or punched documents
- Documents that are not square or rectangular
- Very thin documents
- Do not use the following type documents for scanning with the ADF.
 - Paper-clipped or stapled documents
 - Documents on which the ink is still wet
 - Documents smaller than A8 (portrait) size
 - Documents wider than A3 or 11 in. x 17 in. size
 - Documents other than paper such as fabric, metal foil, or transparencies
- When using the ADF, the leading edge of all document sheets must be evenly aligned. Make sure that curling at the leading edge is within the following tolerances:

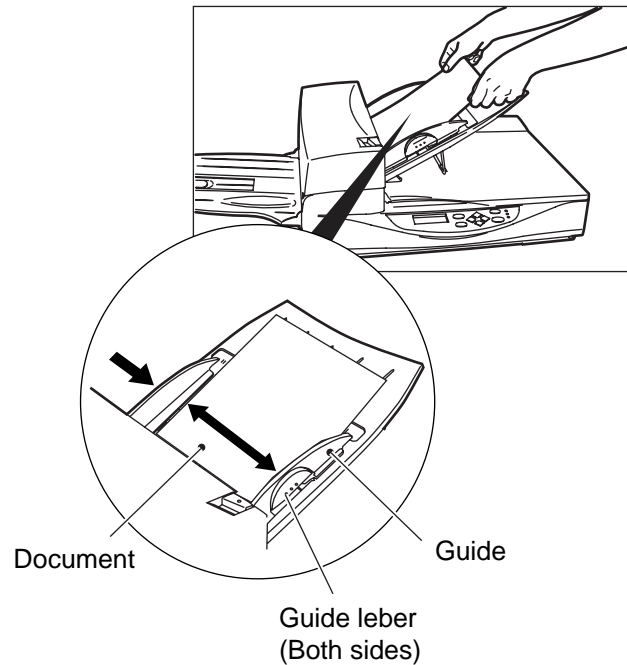


- To avoid skewing, do not feed documents of different widths during the same batch.

3 Adjust the stacker extension to the paper size.

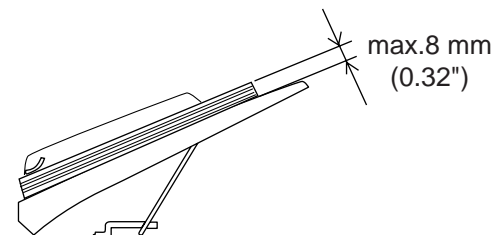


- 4** Set the guides so that there is a small clearance between the document edges and the guides. Load the document face down on the ADF paper chute and adjust the guides to the document width.



 **NOTICE**

- Squeeze the guide lever to free the guides.
- Do not load document stacks thicker than 8 mm.



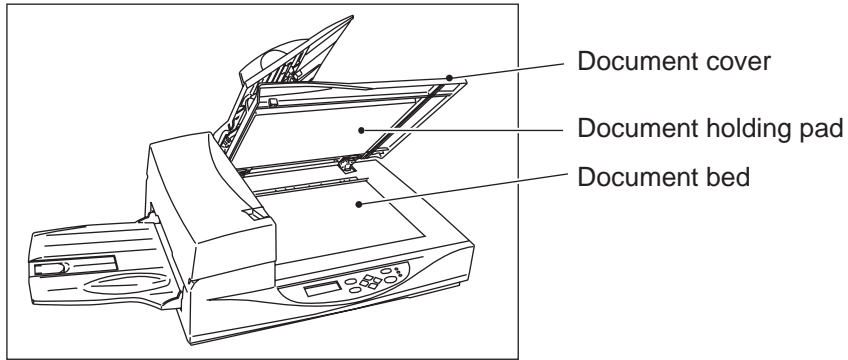
- Set the guides so that they touch the document sides.

- 5** After the read command is issued from the host system and the documents are read, scanned documents are expelled into the stacker for removal.

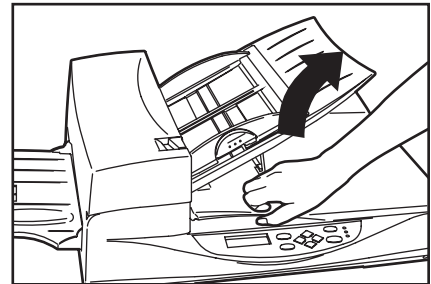
Loading Documents on the Document bed

CAUTION

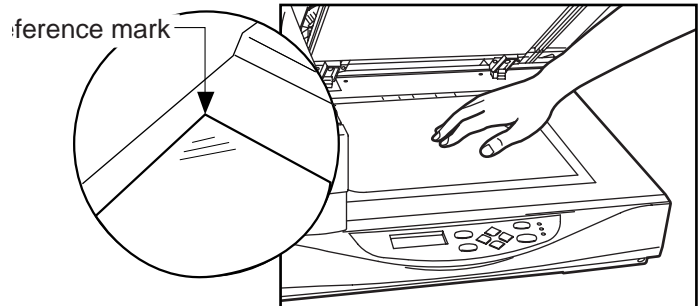
Do not look directly at the light source during the read operation.



- 1** Open the document cover.



- 2** Place the document face down and align the top left corner with the reference mark.



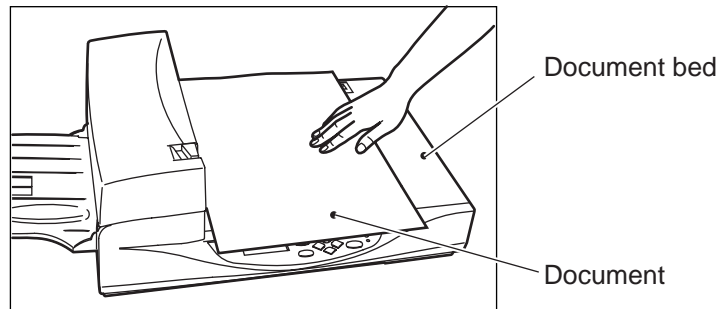
- 3** Slowly close the Document cover.

- 4** Issue the read command from the host system.

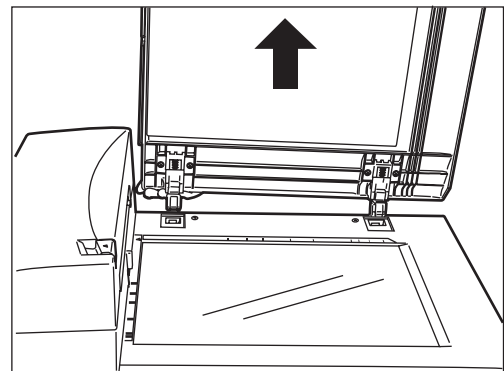
Loading Documents Larger than the Document bed

CAUTION

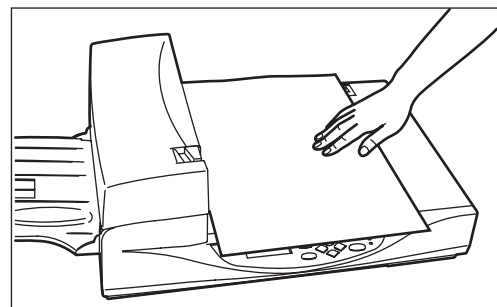
Do not look directly at the light source during the read operation.



- 1** Open the Document cover to an angle of approximately 90 degrees, and lift up the cover (in the direction of the arrow) to remove it.



- 2** Place the document face down on the Document bed. Issue the read command from the host system.

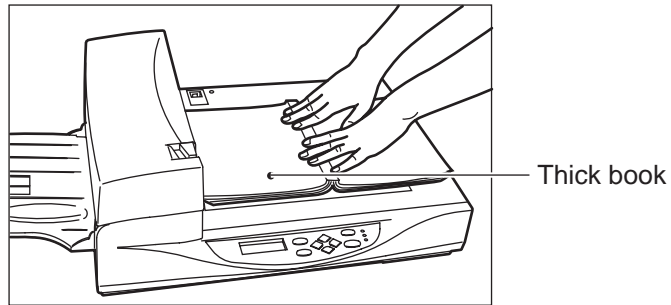


- 3** After the read operation, remove the document, re-attach the Document cover and close it gently.

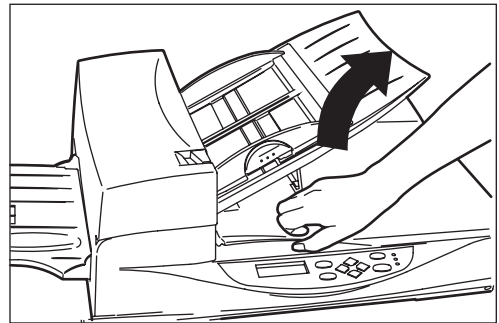
Reading a Page from a Thick Book

CAUTION

Do not look directly at the light source during read operation.

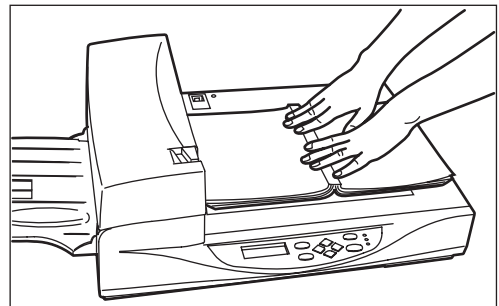


- 1** Open the Document cover.



- 2** Place the book face down on the Document bed.

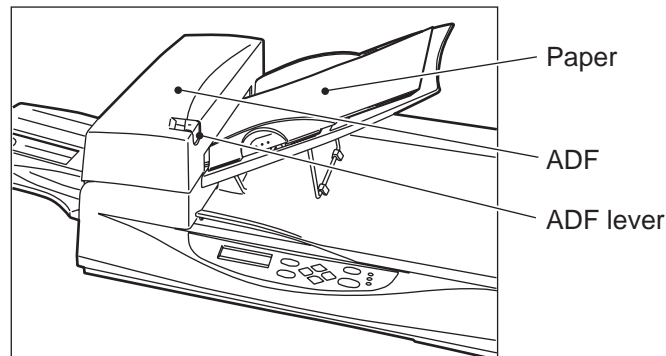
- 3** Issue the read command from the host system. Keep the cover open for the reading operation.



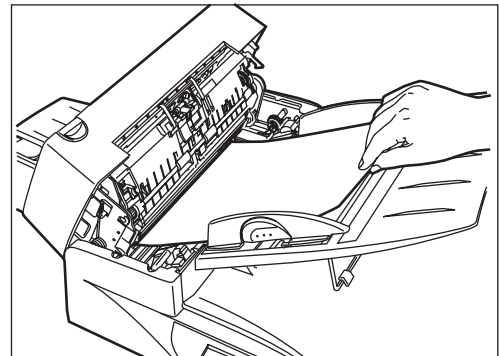
NOTICE

Do not move the book during the read operation.

Clearing Paper Jams



1 Remove all the documents from the ADF paper chute



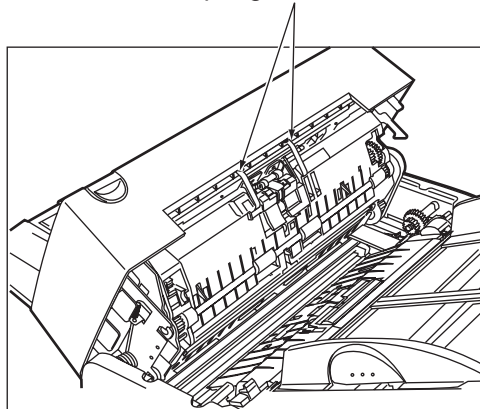
2 Pull the ADF lever to open the ADF.

3 Remove the jammed document(s).

 **NOTICE**

- Inspect the paper and the paper path. Make sure no staples, paper clips or other materials caused the jam. All staples and paper clips should be removed from all documents before scanning.
- Be careful not to pull the spring for the Pick while removing a jammed document.

Spring for the Pick



4 Close the ADF.

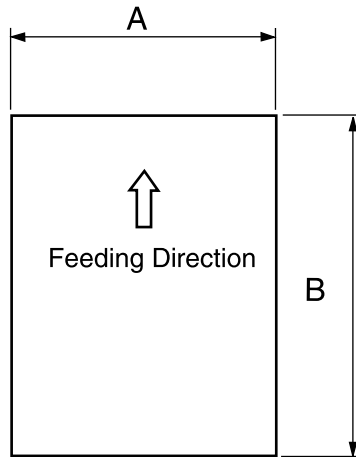
ADF DOCUMENT SPECIFICATION

This chapter describes the document size and document quality required to use the ADF successfully.

Document Size.....	5-2
Document Quality.....	5-3
Maximum ADF Capacity.....	5-5
Areas not to be Perforated	5-6
Grounding Color Areas.....	5-7
Multi Feed Detection Conditions.....	5-8
Job Separation Sheet.....	5-9

Document Size

The following figure shows document sizes that the scanner can read using the ADF.



Scanner	Maximum		Minimum	
	A	B	A	B
fi-4340C	216 (8.5 in)	356 (14 in)	53 (2.1 in)	74 (2.9 in)

(Unit : mm)

Document Quality

This section describes the types and weights of paper that the scanner can read and precautions in preparing documents to ensure maximal scanner functioning.

■ Document type

The recommended paper type for documents is as follows:

- Woodfree paper
- Wood containing paper

When using documents of a paper type other than the above, perform a test-scanning with a few sheets of the same type before executing the actual task in order to check whether or not the documents can be scanned.

Any paper can be used on the Document bed. However, the ground color specification must satisfy the specification described in the Grounding Color Area section.

■ Paper weight

The paper weight should fall within the following ranges:

- 52 to 127 g/m² (13.9 to 34 lb), 127g/m² (34lb) for A8

■ Precautions

A preliminary document feed test may be necessary to avoid unexpected errors. If document slip or jam in the ADF (JAM error) or Multi feed occurs frequently, scan the documents manually using the Document bed.

The following documents may be difficult to be scanned successfully with the ADF:

- Documents of non-uniform thickness (e.g. envelopes)
- Wrinkled or curled documents (Refer to NOTICE in this section)
- Folded or torn documents
- Tracing paper
- Coated paper
- Carbon paper
- Carbonless paper
- Photosensitive paper
- Perforated or punched documents

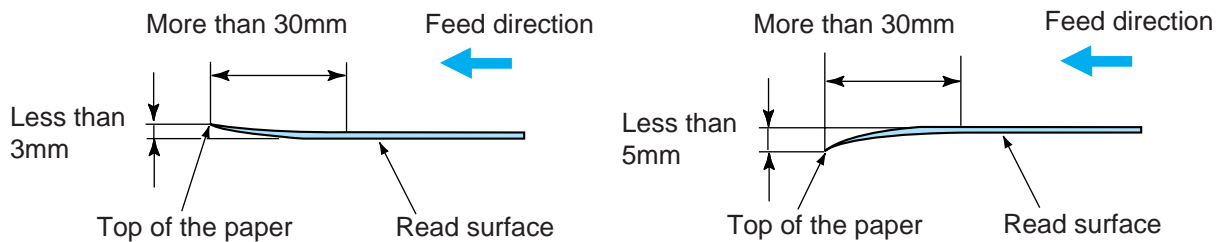
- Documents that are not square or rectangular
- Very thin documents

Do not use the following type documents for scanning with the ADF.

- Paper-clipped or stapled documents
- Documents on which the ink is still wet
- Documents smaller than A8 (portrait) size
- Documents wider than A3 or 11 in. x 17 in. size
- Documents other than paper such as fabric, metal foil, or transparencies

NOTICE

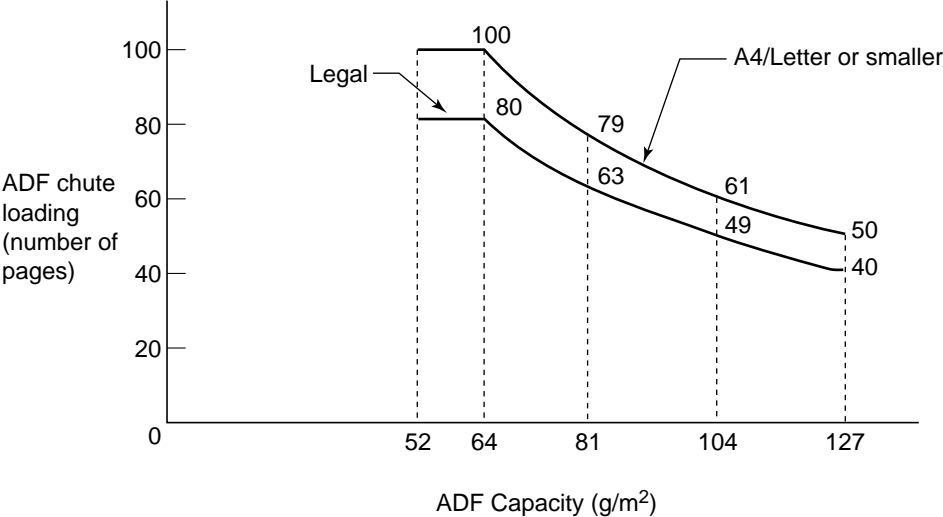
- When scanning semi-transparent documents, set the density to light to avoid a bleed through.
- Carbonless paper contains chemical substances that may harm the Pad or rollers (e.g. Pick roller). Pay attention to the following:
 - Cleaning : If mispicks occur frequently, clean the Pad and Pick roller. For details on cleaning method, refer to the “Cleaning and Maintenance” manual.
 - Replacing parts : The service life of the Pad and Pick roller may be shortened compared to the case of scanning wood containing paper documents.
- When using the ADF, the leading edge of all document sheets must be evenly aligned. Make sure that curling at the leadin edge is within the following tolerances:



- To prevent rollers from becoming dirty, avoid scanning documents containing large areas written or filled in pencil. If scanning of such documents is inevitable, clean the rollers more frequently.

Maximum ADF Capacity

The maximum number of sheets that can be loaded on the ADF paper chute is determined by the size and weight of the documents. The following graph shows the maximum documents loading capacity of the ADF based on paper weight.

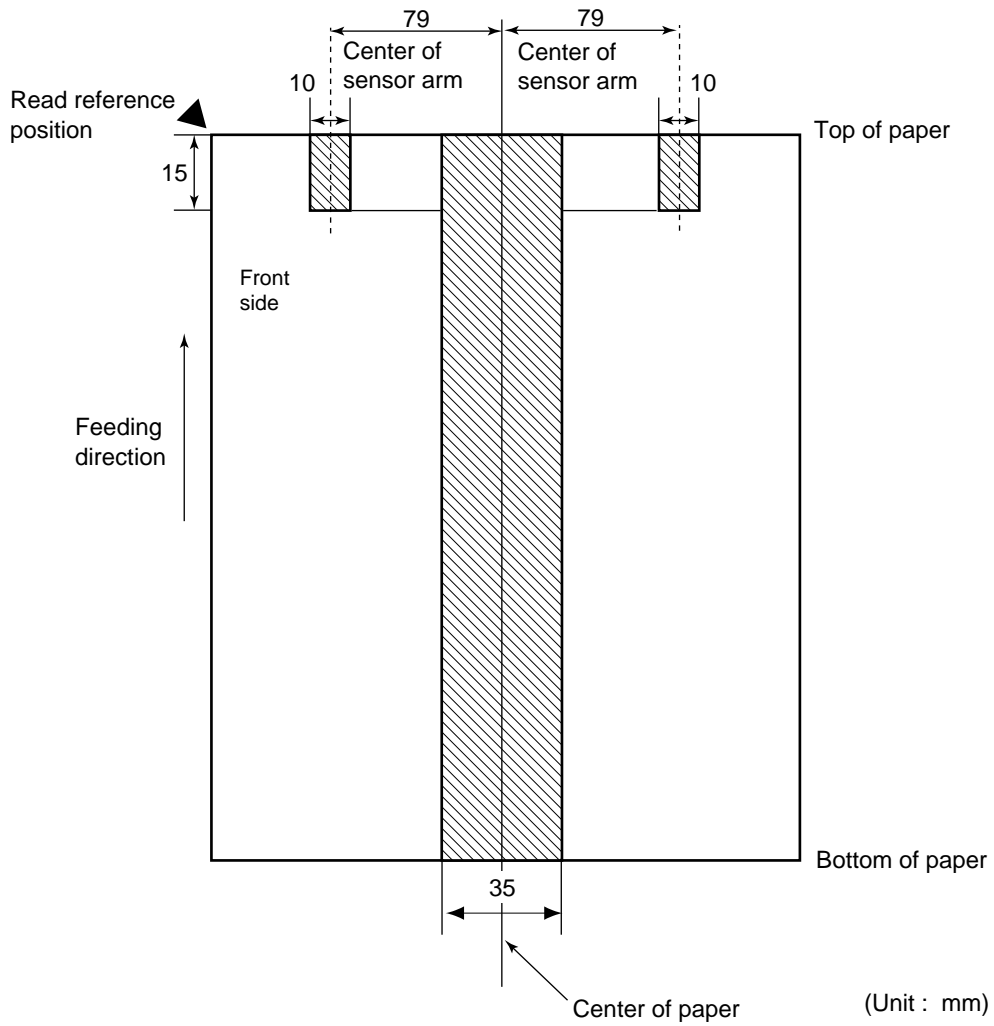


Paper weight conversion table

Unit	Conversion						
lb	13.9	17	20	24	27.9	34	41.8
g/m ²	52	64	75	90	104	127	157

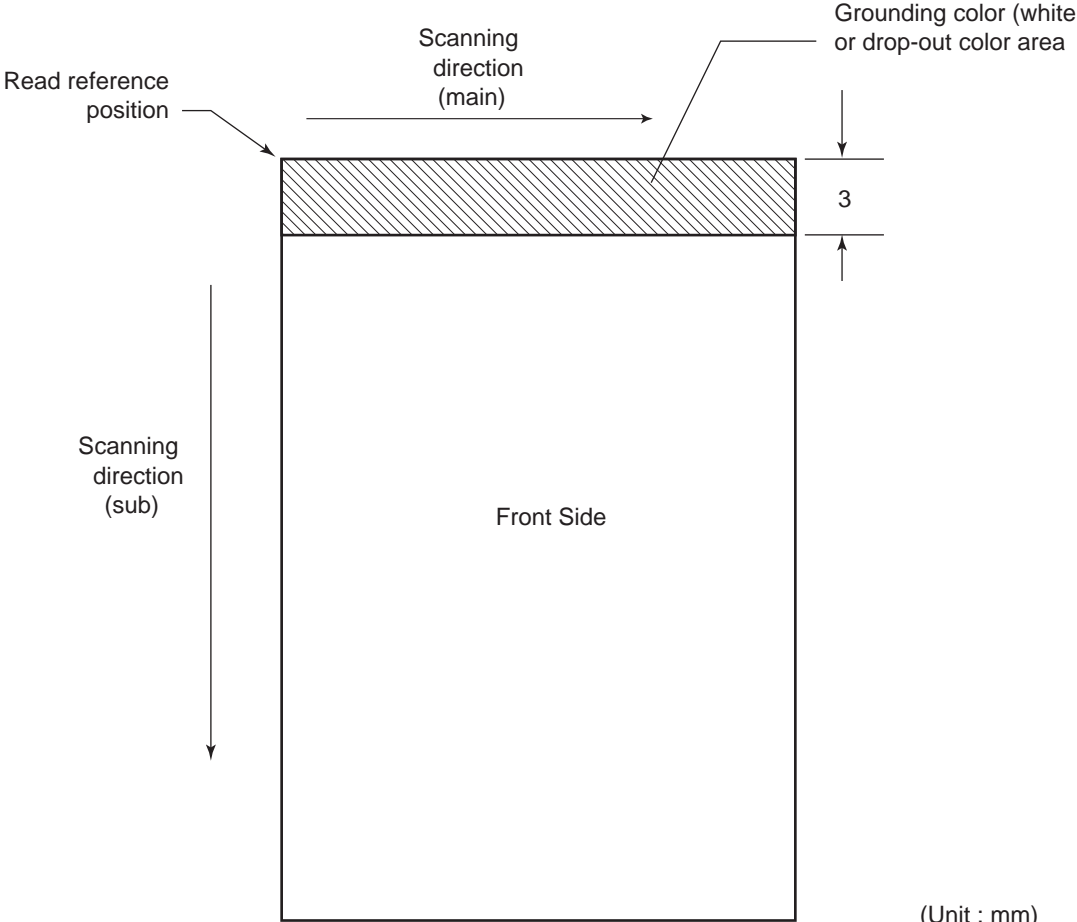
Areas not to be Perforated

With the ADF, perforations in the shaded areas may cause errors. If you must read data from such a paper, use the Document bed:



Grounding Color Areas

The shaded area in the Figure below should have paper grounding color (white) or drop-out color. If not, turn the white level following Off when reading.



Multi Feed Detection Conditions

Select one of the following:

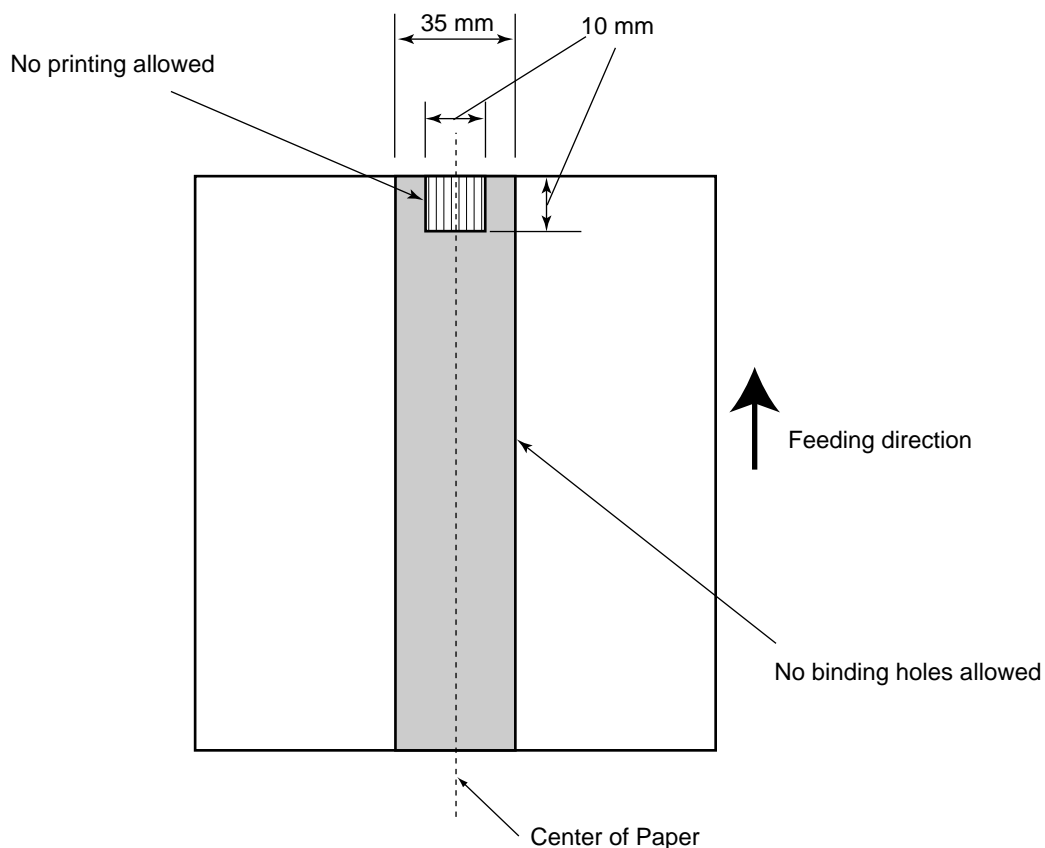
- Check thickness
- Check length
- Check thickness and length

The following conditions are required when any of the above option is selected:

- 1 Thickness: 0.065 mm to 0.15 mm
- 2 Paper length accuracy: 1% or less
- 3 Any black print at the center of the leading edge of the paper is not allowed. (10 mm x 10 mm)
- 4 No binding holes are allowed within 35 mm of the middle (halfway point) along the center of the paper.
- 5 Printing duty: 12 % or less
- 6 The deviation of the amount of transparent light on the base color area should be less than 10 %.

NOTICE

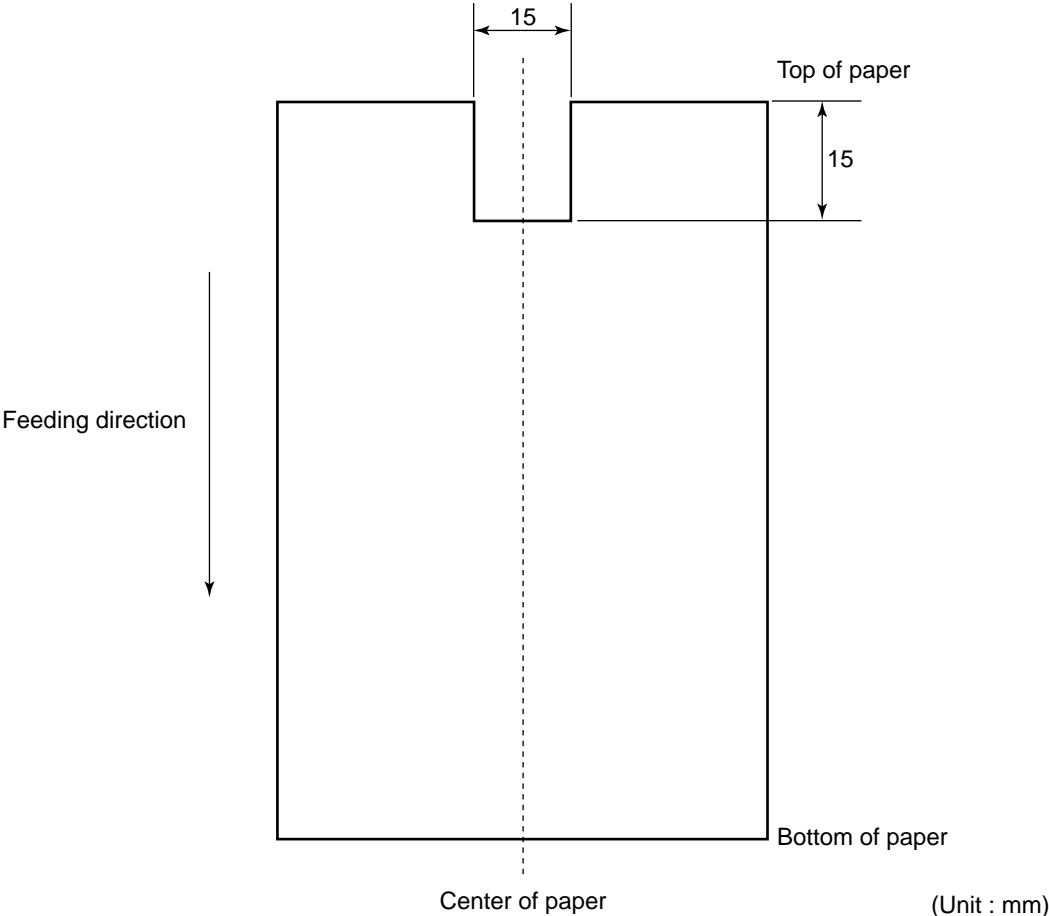
Certain paper types or a certain condition of paper result in lower detection rates in terms of Multi feed detection.



Job Separation Sheet

1 Shape

The following shows the typical format of the job separation sheet.



2 Paper conditions

Paper width must be A4 or larger (210 mm or larger in width).

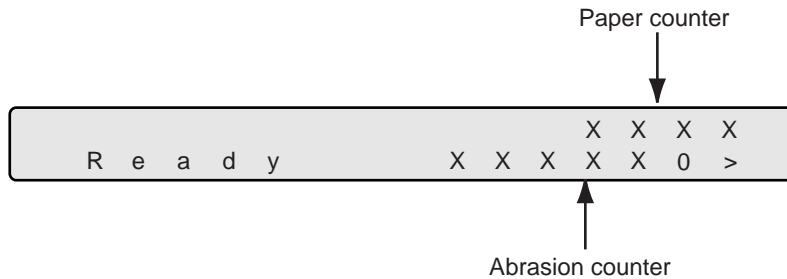
OPERATOR PANEL MESSAGE

This chapter describes the components of the scanner, part names, and LED indicators. After unpacking the scanner, confirm that all components have been received by checking them against the list in the first section.

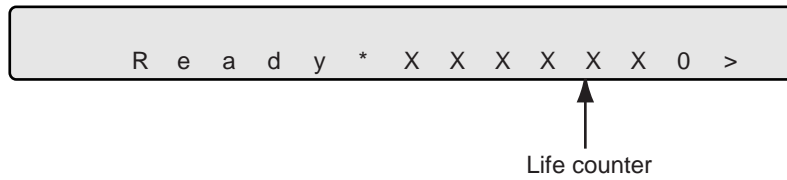
Counter Display	6-2
Operation status	6-3
Temporary error	6-4
Alarm	6-5

Counter Display

The displays for the Paper and Abrasion counters are shown below:



Simultaneously press the ◊ and ◊ arrow buttons for at least 1 second, to switch to the Life counter panel display as shown below:



Counter	Function	
Paper counter	When the ◊ button is pressed for at least 1 second	The paper counter counts the number of scanned sheets from the start of reading until Paper Empty or an error is detected. The counter is automatically reset at the start of reading. The counter is used for checking the number of the sheets scanned in one batch.
	When the ◊ button is pressed for at least 1 second	This counter increments each time a document is scanned. It is not initialized until the power is turned off. The counter can be used, for example, for checking the number of sheets that have been scanned in one day.
Abrasion counter	The abrasion counter counts the accumulated number of scanned sheets. This counter increments every 10 sheets. It is useful to check the cleaning cycle or the parts replacement cycle. How to reset it is described in Chapter7 "SETUP MODE".	
Life Counter	Keeps a cumulative count of the number of scans made after shipping. This counter increments by 1 after every 10 scans and may be used to estimate of the device's remaining scan life.	

NOTICE

When the counter value is 0, no number is displayed.

Operation status

The operation status messages are as follows:


<Power-on>

W a r m i n g - u p N o w ! !

<Reading>

N o w R e a d i n g ! x x x x

<Low Power Mode>

When the Scanner Display turns Off and the power  indicator remains "On", the scanner is in the Low Power Mode.

NOTICE

One of the following will wake up the scanner:

- Pressing any button.
- Setting the paper on the ADF.

Sending a command from the host computer.

<Waiting for Start>

(Only When the Video Interface Option is installed.)

The scanner displays the following screen when waiting for the Start button to be pressed:

S t a r t S W O N !

<Cleaning request>

When the ADF glass cleaning is necessary, the scanner displays the following on the LCD:

C l e a n A D F G l a s s
N o w R e a d i n g !

When the Pick roller cleaning is necessary, the scanner displays the following on the upper line:

C l e a n P i c k r o l l e r
N o w R e a d i n g !

When the ADF glass and the Pick roller cleaning are necessary, the scanner displays the following:

C l e a n P i c k r o l l e r
C l e a n A D F G l a s s

Clean the Pick roller or the ADF glass in accordance with the manual, "Cleaning and Maintenance".

Temporary error

<Hopper empty>

P a p e r E m p t y

This message is displayed if there is no more paper on the ADF paper chute during a read operation in ADF mode. Fill the ADF paper chute with paper. To enable the read operation, press the stop button.

<Jam>

P a p e r J a m

This message is displayed if a document is jammed in the ADF. See the “Cleaning and Maintenance” manual for removing jammed documents.

<ADF cover open>

A D F - C o v e r O p e n

This message is displayed if the ADF is not closed completely. Close the ADF completely. To enable the read operation, close the ADF completely.

<Multi feed error>

M u l t i F e e d

This message is displayed when the ADF detects the Multi feed error. Check the document and re-scan the document.

<No Ink Cartridge>

N o I n k C a r t r i d g e

This message is displayed when the print cartridge is not put in fi-434PR (Imprinter). Please place the cartridge.

<Print Error>

P r i n t E r r o r

This message is displayed when the print position mark of fi-434PR (Imprinter) is set to the area which is out of the paper path or when the stacker is full of documents. Please set the fi-434PR (Imprinter) to the correct position or take the paper away from the stacker.

Alarm

One of the following messages is displayed if an error occurs in the scanner. If one of the following error messages is displayed, turn the power Off and then On again. If the same message is displayed, contact your service representative.

<Optical alarm front>

F r o n t S i d e
O p t i c a l A l a r m

<Optical alarm back>

B a c k S i d e
O p t i c a l A l a r m

<FB mechanism alarm>

F l a t b e d
M e c h a n i c a l A l a r m

NOTICE

When the total number of sheets scanned by the ADF is less than 100, the message above and the message below are displayed alternately. Remove the bracket (Shipping Lock) that holds the carrier in place.

C h e c k S h i p p i n g
L o c k

<Motor fuse alarm>

M o t o r f u s e A l a r m

<Lamp fuse alarm>

L a m p f u s e A l a r m

<Image transfer alarm>

I m g T r a n s A l a r m

<Memory alarm>

M e m o r y A l a r m

<EEPROM alarm>

E E P R O M A l a r m

<FAN alarm>

F A N A l a r m

<IPC Board alarm>
(Image Processing board)

I P C B o a r d A l a r m

<Self-diagnostics Error>

The Power indicator (LED) and Check lamp blink alternately.

<Imprinter Alarm>

I m p r i n t e r A l a r m

The Power Indicator (LED) and Check lamp blink alternately.

<SCSI Controller Alarm>

H a r d w a r e E r r o r

<USB Controller Alarm>

U S B A l a r m

SETUP MODE

This chapter describes the setup mode of the scanner.

Activating the Setup Mode7-2

Contents of the Setup Mode.....7-3

Activating the Setup Mode

This section describes how to activate the setup mode.

1. Turn the power On. Then the scanner displays “Scanner Ready” on the LCD.

Screen M1

```

                                     X X X X
R e a d y       X X X X X 0 >

```

2. If the scanner does not have a video interface option, go to the procedure step 3.

Press **Next** then the scanner with the video interface option displays Screen M2.

Screen M2

```

M o d e   S e l e c t   0
☐ R e a d i n g   M o d e

```

3. Press **Next** then the scanner displays Screen M3.

Screen M3

```

M o d e   S e l e c t   1
M   M a n u a l   F e e d ?

```

4. Press **Next** then the scanner displays Screen M4.

Screen M4

```

M 0 1   M a n u a l   F e e d
= N o / Y e s

```

5. Press **Enter**. Now the scanner is at Screen 1 (page 7-5) in Setup mode.

NOTICE

Any time you press **Exit**, you can return to the “Scanner Ready” screen.

Contents of the Setup Mode

This section describes the contents of the setup mode.

No	Item	Description	Selectable parameters	Default
1	Multi feed check	Specifies the Multi feed detection. Multi feed is detected by checking the document length and/or paper thickness.(*1)	No/Yes	No
2	Length check =No/10/15/20 mm	Specifies the document length to enable Multi feed detection sets the document length.	Tolerance: No/10/15/20mm	No
3	IPC pre-setting	Scanner automatically sets the recommended reading parameters. 3 sets of parameters are available when IPC-4D is not installed.	Document: No 1: Sharpen 2: Darken Character 3: Copy Quality	No
4	Resetting of abrasion counter	Resets the abrasion counter.	---	---
5	Pick start time setting	Specifies the time from document Insertion to the start of picking. User can select the most comfortable Pick start time for the job.	Time: 0.2 to 29.8 sec	1.0 sec
6	Time-out limit setting	Specifies the time the scanner waits for the next document insertion after the last document was scanned.	Time: 27 values from 1 to 1999 sec	30 sec
7	ADF front offset setting(*2)	Specifies the horizontal and vertical offset of the front side image when using the ADF.	Offset: H:-2 to +3 mm V:-2 to +3 mm	Offset: H: 0 mm V: 0 mm
8	ADF back offset setting(*2)	Specifies the horizontal and vertical offset of the back side image when using the ADF.	Offset: H:-2 to +3 mm V:-2 to +3 mm	Offset: H: 0 mm V: 0 mm
9	Document bed offset setting(*2)	Horizontal and vertical offset of the FB image is specified.	Offset: H:-2 to +3 mm V:-2 to +3 mm	Offset: H: 0 mm V: 0 mm
10	IPC status display (*3)	Displays whether or not the image processing board (IPC-4D) and the Imprinter option are installed.	---	---
11	Low Power Mode setting	Changes the default setting of the duration for power save.	5 min. to 60 min.	15 min.
12	Select Interface	Selects the interface when the scanner has a board in the third party Slot.	Auto/Standard/Tps	Auto
13	Display TPS Board ID Number	Displays the ID number of the board which is installed in the third party Slot.	---	---

(Continued)

No	Item	Description	Selectable parameters	Default
14	IPC mode	When the IPC-4D image processing board is installed in the third party Slot, select this IPC-4D board or the image processing circuit built in the scanner.	Standard/IPC4D	Standard
15	ADF Edge Erasing	Adjusts the edge areas to be erased from the image scanned by the automatic document feeder (ADF).	Left/Right: 0 to 15 mm Top: 0 to 15 mm Bottom: -7 to 0 mm	Left/Right: 0 mm Top: 0 mm Bottom: 0 mm
16	FB Edge Erasing	Adjusts the edge areas to be erased from the image scanned by the flat bed (FB).	Left/Right: 0 to 15 mm Top: 0 to 15 mm Bottom: 0 mm	Left/Right: 0 mm Top: 0 mm Bottom: 0 mm
17	Select read color	Selects the color to be read in unicolor reading.	R/G/B/W	G
18	Gray mode	Switches between quality priority scanning and speed priority scanning when scanning grayscale images.	Normal/ Fast	Fast
19	Remaining ink	Displays the remaining amount of ink when the Imprinter option is attached and resets the remaining ink counter when replacing the ink.	Reset/No	No
20	Print No.	Selects printing of Nos. when the Imprinter option is attached.	on/off	off

*1) Some restrictions apply to the detection of a Multi feed.

*2) This offset refers to the difference from the value adjusted by automatic offset adjustment.

*3) The display message may differ depending on the option installed.

1 Setting Multi feed detection (Paper Thickness)



When you set the use of Multi feed detection, you must set it as follows:

1. Press **Next** or **Previous** and let the scanner display Screen 1.



Screen 1

```
! 0 1      M u l t i      F e e d
= N o / Y e s → 1 / 2 : S t o p
```

2. At Screen 1.

Press either the  or  button to set the Multi feed detection according to the paper thickness (transmitted light).

The paper thickness is checked using the difference between two consecutive sheets of paper fed from the ADF. On this screen, select whether or not to check for Multi feeding, and select the error processing.

Each time either of these buttons is pressed, the location of the blinking moves. When the  button is pressed, the blinking moves from (1) to (3). When the  button is pressed, the blinking moves in the opposite direction. However, if the setting by the host computer is valid, the location of the blinking does not move when either button is pressed.

- (1) “**No**” is blinking: Paper thickness is not checked.
- (2) “**Yes**” and “**1**” are blinking: Paper thickness is checked. However, a detected Multi feed error is displayed on the screen only; processing is continued.
- (3) “**Yes**” and “**2: Stop**” are blinking: Paper thickness is checked. When the Multi feed error is detected, the scan processing is stopped. The error is then reported to the host.

If you want to disable the Multi feed, select “No” then press **Enter**. Press **Exit** to return.

NOTICES

1. Multi Feed detection might have better results when both the paper thickness and the paper length are used.
2. When the document in ADF is not the Multi fed document, the previous document might be Multi fed, in case the scanner stops feeding by using the Multi feed detection.
3. Depending on the type of printing on the document, a Multi feed may not be detected by the paper thickness.

2 Setting Multi feed detection (Paper Length)

1. Press **Next** or **Previous** and let the scanner display Screen 2.

Screen 2

```
! 0 2   L e n g t h   C h e c k
= N o / Y e s → 1 / 2 : S t o p
```

2. Press either the **◁** or **▷** button to set Multi feed detection according to paper length. The paper length is checked using the difference between two consecutive sheets of paper fed from the ADF.

Each time either of these buttons is pressed, the location of the blinking moves. When the **▷** button is pressed, the blinking moves from (1) to (3). When the **◁** button is pressed, the blinking moves in the opposite direction. However, if the setting by the host computer is valid, the location of the blinking does not move when either button is pressed.

- (1) **“No”** is blinking: Paper length is not checked.
- (2) **“Yes”** and **“1”** are blinking: Paper length is checked. However, a detected Multi feed error is displayed only on the screen; processing is continued.
- (3) **“Yes”** and **“2: Stop”** are blinking: Paper length is checked. When the Multi feed error is detected, the scan processing is stopped. The error is then reported to the host.

If you want to disable the Multi feed, select “No” then press **Enter**. Press **Exit** to return.

After pressing **Enter**, the scanner displays the Screen 3.



Screen 3

```
! 0 2 - 1   L e n g t h
= 1 0 / 1 5 / 2 0   m m
```

3. Press either the **◁** or **▷** button to set Multi feed detection (paper length). When the **▷** button is pressed, the blinking moves from (1) to (3). When the **◁** button is pressed, the blinking moves in the opposite direction.
 - (1) The **“10”** is blinking: Threshold is 10mm
 - (2) The **“15”** is blinking: Threshold is 15mm
 - (3) The **“20”** is blinking: Threshold is 20mm




3 Setting IPC pre-set mode

When you set the use of the IPC pre-set mode, you must set it as follows:

1. Press “Next”  or “Previous”  and let the scanner display Screen 4.

Screen 4

```
! 0 3   I P C   P r e - S e t
= N o
```

2. At Screen 4, press  or  to select the pre-Setting and press  to activate the pre-setting. Then the scanner displays Screen 5.

Screen 5

```
! 0 3 - 1   U s e   I P C
      P r e s e t ?   Y e s / N o
```


NOTICES

The following IPC pre-settings can be selected when IPC-4D is installed:

- Preset 1: Captures texts printed on the colored background
- Preset 2: Produces an image with good contrast
- Preset 3: OCR Smoothing
- Preset 4: Image Smoothing
- Preset 5: Dither
- Preset 9: Pre-printed paper (color)
- Carbonless paper: Carbonless paper

The following built-in IPC pre-settings can be selected even though IPC-4D is not installed:

- Sharpen
- Darken Character
- Copy Quality



3. At Screen 5, select “Yes” or “No”. Note that when you select “Yes”, the IPC setting from the Host computer is ignored. If you select “No”, the IPC setting will be changed according to the host setting. Finally press .

NOTICE

When you select the Copy Quality, select the scanner and printer settings carefully to get the best quality.

4 Reset of the abrasion counter



When you reset the abrasion counter, you must set it as follows:



1. Press “Next”  or “Previous”  and let the scanner display Screen 6.

Screen 6



```
! 0 4   A b r a s i o n   C N T
= P i c k R o l l e r / P a d
```

2. At Screen 6;

If you want to reset the PickRoller counter, select “Pick Roller” through  or  button and press . Go to procedure 3.

If you do not want to reset the Pad counter, select “Pad” through  or  button and press . Go to procedure 3.

3. At Screen 7 or Screen 8;

If you want to reset the abrasion counter, select “Reset” through  or  button and press . Go to procedure 4. If you do not want to reset the abrasion counter, select “No” and press . Finally press to return.

Screen 7

```
! 0 4 - 1 P i c k           C N T
= X X X X X X   R e s e t / N o
```

Screen 8

```
! 0 4 - 2 P a d           C N T
= X X X X X X   R e s e t / N o
```

4. At Screen 9

If you want to reset the abrasion counter, select “Yes” and press .



If you do not want to reset it, select “No” and press . Press to return.

Screen 9

```
! 0 4 - 3 R e s e t   N o w
                    N o / Y e s
```




5 Setting the pick start time

When you set the pick start time, you must set it as follows:



1. Press “Next”  or “Previous”  and let the scanner display Screen 10.

Screen 10

!	0	5	P	i	c	k	s	t	a	r	t
=	1	.	0	S	e	c					



2. At Screen 10, press  to increase the Pick start time or press  to decrease the Pick start time. Then press to activate the setting. Finally press to return.

6 Setting the time-out limit

1. Press “Next”  or “Previous”  and let the scanner display Screen 11.

Screen 11

!	0	6	T	i	m	e	-	o	u	t
=	3	0	S	e	c					

2. At Screen 11, press  to increase the number or press  to decrease the time-out limit. Then press to activate the setting.

NOTICE



Default is 30 seconds.

3. Press to return.

7 ADF Front Offset Setting

8 ADF Back Offset Setting

9 Document bed Offset Setting

1. Press “Next”  or “Previous”  and let the scanner display the following:

- For an ADF front offset setting

Screen 12

!	0	7	A	D	F	F	.	O	f	f	s	e	t		
			C	h	a	n	g	e	?	N	o	/	Y	e	s

- For an ADF back offset setting

Screen 13

!	0	8	A	D	F	B	.	O	f	f	s	e	t		
			C	h	a	n	g	e	?	N	o	/	Y	e	s

- For a Document bed offset setting

Screen 14

!	0	9	F	B	O	f	f	s	e	t					
			C	h	a	n	g	e	?	N	o	/	Y	e	s

2. At Screen 12, Screen 13, or Screen 14, select "Yes" by pressing the \diamond or \diamond button, then press **Enter**. The scanner displays Screen 15. (X = 7, 8, or 9)

Screen 15

```
! 0 X - 1 R e t u r n   t o
  d e f a u l t ?   N o / Y e s
```

3. At Screen 15, if you want to let the offset return to default, select "Yes" otherwise "No" then press **Enter**. The scanner displays Screen 16, Screen 17 or Screen 18.

- For an ADF front offset setting

Screen 16

```
! 0 7 - 2   F r o n t   H
H = + 0 . 0 m m ( + : L e f t )
```

- For an ADF back offset setting

Screen 17

```
! 0 8 - 2   B a c k   H
H = + 0 . 0 m m ( + : L e f t )
```

- For a Document bed offset setting

Screen 18

```
! 0 9 - 2   F B   H
H = + 0 . 0 m m ( + : L e f t )
```

4. At Screen 16, Screen 17 or Screen 18, press \diamond to increase the offset or press \diamond to decrease offset. The increment or decrement is 0.5 mm.

Then press **Enter** to activate the setting. The scanner displays Screen 19, Screen 20 or Screen 21.

- For an ADF front offset setting

Screen 19

```
! 0 7 - 3   F r o n t   V
V = + 0 . 0 m m ( + : U p )
```

- For an ADF back offset setting

Screen 20

```
! 0 8 - 3   B a c k   V
V = + 0 . 0 m m ( + : U p )
```

- For a Document bed offset setting

Screen 21

```
! 0 9 - 3   F B   V
V = + 0 . 0 m m ( + : U p )
```

- At Screen 19, Screen 20 or Screen 21, press \diamond to increase the offset or press \diamond to decrease the offset. Then press to activate the setting. The scanner displays the next item of the setup mode.

10 IPC Status Display

This function allows you to check whether or not the IPC-4D (IMAGE PROCESSING CIRCUIT BOARD) is installed, and whether or not fi-475CMP3 (JPEG COMPRESSION BOARD) is installed, and whether or not fi-434PR (IMPRINTER) is installed.

Check whether or not the respectively option is installed as follows.

- Press "Next" \diamond or "Previous" \diamond .

if an IPC4D (IMAGE PROCESSING CIRCUIT BOARD) is installed, Screen 22 will appear.

Screen 22

!	1	0		I	P	C	
				I	P	C	- 4 D

if an IPC4D (IMAGE PROCESSING CIRCUIT BOARD) is not installed, Screen 23 will appear.

Screen 23

!	1	0		I	P	C	
							N O

if a fi-434PR (IMPRINTER) only is installed, Screen 24 will appear.

Screen 24

!	1	0		I	P	C		P	R	T
							N O			O K

if fi-434PR (IMPRINTER) and IPC4D (IMAGE PROCESSING CIRCUIT BOARD) are installed, Screen 25 will appear.

Screen 25

!	1	0		I	P	C		P	R	T
				I	P	C	- 4 D			O K

if a fi-475CMP3 (JPEG COMPRESSION BOARD) only is installed, Screen 26 will appear.

Screen 26

!	1	0		I	P	C		J	P	E	G
							N O				O K

if IPC4D (IMAGE PROCESSING CIRCUIT BOARD) and fi-475CMP3 (JPEG COMPRESSION BOARD) are installed, Screen 27 will appear.

Screen 27

!	1	0		I	P	C		J	P	E	G
				I	P	C	- 4 D				O K

if fi-434PR(IMPRINTER) and fi-475CMP3(JPEG COMPRESSION BOARD) are installed,Screen 28 will appear.

Screen 28

```
! 1 0      I P C      P R T      J P E G
          N O        O K        O K
```


if fi-434PR(IMPRINTER), IPC4D(IMAGE PROCESSING CIRCUIT BOARD) and fi-475CMP3(JPEG COMPRESSION BOARD) are installed,Screen 29 will appear.

Screen 29

```
! 1 0      I P C      P R T      J P E G
  I P C - 4 D  O K        O K
```



2. Press **Exit** to return.

11 Low Power Mode Setting

1. Press “Next”  or “Previous”  and let the scanner display Screen 30.

Screen 30

```
! 1 3      P o w e r      S a v e
= 1 0      1 5      2 0      m i n
```



2. At Screen 30, press  or  to select the time duration. A minimum of 5 min to the maximum of 60 minutes can be selected. Then press **Enter** to activate the setting.

NOTICE

The default time recommended by the ENERGYSTAR® program is 15 minutes. The default for the fi-4340C scanner is 15 minutes, as recommended.

3. Press **Exit** to return.

12 Select Interface

1. Press “Next”  or “Previous”  and let the scanner display Screen 31.

Screen 31




```
! 1 4   I n t e r f a c e
= A u t o / S t a n d a r d /
```

Screen 31-2


```
! 1 4   I n t e r f a c e
= / S t a n d a r d / T P S
```

NOTICE



The Screen 31 and 31-2 will appear only when the scanner has proper interface boards or option boards in the third party slot.

2. At Screen 31 and 31-2, press  or  to select the interface type. Press  if you want to change the setting.

NOTICE

1. Normally, this setting does not have to be changed.
 2. When an appropriate board is installed in the third party slot of the scanner, the scanner automatically turns off the SCSI or USB interface, activating the board in the third party slot. Screen 31 and 31-2 can be used to forcibly change the selected interface. The selected interface is then forcibly changed.
 3. The SCSI interface, USB interface and the board installed in the third party slot cannot be used at the same time.
 4. The default is Auto.
3. Press  to return.

13 Display the TPS Board ID Number

1. Press “Next”  or “Previous”  and let the scanner display Screen 32.

Screen 32

```
! 1 5   T P S   B o a r d
      I n t e r f a c e   I D = 0
```



The scanner displays the ID number if the applicable board is installed.

NOTICE

If the Fujitsu video Interface Option board is installed properly, the display shows “ID=7”.

2. Press  to return.

14 Select Built-In/IPC-4D Image Processing

1. Press “Next”  or  and let the scanner display the Screen 33.

Screen 33

!	1	6	I	P	C	M	o	d	e						
	S	t	a	n	d	e	r	d	/	I	P	C	-	4	D

2. At Screen 33, press  or  to select “Standard” or “IPC4D”.

When “Standard” is selected, the scanner uses its built-in image processing. On the other hand, the scanner selects the image processing of the IPC-4D(IMAGE PROCESSING CIRCUIT BOARD) when the “IPC-4D” is installed and selected.

NOTICE

The factory default is “Standard”.



NOTICE

fi-4340C has built-in Image Processing. The following image processing is supported both by the fi-4340C and the IPC-4D(IMAGE PROCESSING CIRCUIT BOARD). As a default, the scanner built-in functions are enabled. By setting "On" using the Operator Panel, the IPC-4D image processing overrides the built-in functions.

	Image Processing	IPC-4D	fi-4340C
1	Emphasis/Smoothing	5 x 5 matrix	3 x 3 matrix
2	Outline	Pre-threshold Laplacian	Laplacian
3	Simplified Dynamic Threshold	IPC-2 like SDTC	3 x 3 max-min

The IPC-4D(IMAGE PROCESSING CIRCUIT BOARD) support of those functions is intended for compatibility with the IPC-3/3D (except for image quality). The matrix size used in the IPC-4D(IMAGE PROCESSING CIRCUIT BOARD) is larger than the one in the fi-4340C. The fi-4340C Built-in Dynamic Threshold is a new algorithm.

15 Adjust ADF Erasing Edges

1. Press “Next”  or “Previous”  and let the scanner display Screen 34.

Screen 34

!	1	7	A	D	F	E	d	g	e	E	R	S	
	C	h	a	n	g	e	?	N	o	/	Y	e	s

2. At Screen 34, press \diamond or \diamond to select “Yes” and press **Enter**. Then the scanner displays Screen 35.

Screen 35

```
! 1 7 - 1   D e f a u l t ?  
           N o / Y e s
```

3. At Screen 35, select “Yes” to return the settings to the factory default or select “No” to make new settings (as shown below). Then press **Enter**. The scanner displays Screen 36.

Screen 36

```
! 1 7 - 2   A D F   T o p  
T o p =    0 m m
```

4. At Screen 36, press \diamond or \diamond to change the top setting. The value changes in 1 mm units. Then press **Enter** to activate the setting. The scanner displays Screen 37.

Screen 37

```
! 1 7 - 3   A D F   B o t t o m  
B t m =    0 m m ( + : U p )
```

5. At Screen 37, press \diamond or \diamond to change the bottom setting. With (+:Up), the area is set upward from the bottom edge of the image. With (-:Down), the area is set downward from the bottom edge of the image. The value changes in 1 mm units. Then press **Enter** to activate the setting. The scanner displays Screen 38.

Screen 38

```
! 1 7 - 4   A D F   L e f t  
L e f t =   0 m m
```



6. At Screen 38, press \diamond or \diamond to change the left setting. The value changes in 1 mm units. Then press **Enter** to activate the setting. The scanner displays Screen 39.

Screen 39

```
! 1 7 - 5   A D F   R i g h t  
R i g h t =   0 m m
```




7. At Screen 39, press \diamond or \diamond to change the top setting. The value changes in 1 mm units. Then press **Enter** to activate the setting. The scanner displays the next setup item.

16 Adjust FB Erasing Edges

1. Press “Next”  or “Previous”  and let the scanner display Screen 40.


Screen 40

```
! 1 8   F B   E d g e E R S
C h a n g e ?   N o / Y e s
```

2. At Screen 40, press  or  to select “Yes” and press . Then the scanner displays Screen 41.




Screen 41

```
! 1 8 - 1   D e f a u l t ?
                N o / Y e s
```

3. At Screen 41, select “Yes” to return the settings to the factory default or select “No” to make new settings (as shown below). Then press . The scanner displays Screen 42.




Screen 42

```
! 1 8 - 2   F B   T o p
T o p =     0 m m
```

4. At Screen 42, press  or  to change the top setting. The value changes in 1 mm units. Then press  to activate the setting. The scanner displays Screen 43.




Screen 43

```
! 1 8 - 3   F B   B o t t m
B t m =     0 m m ( + : U p )
```

5. At Screen 43, press  or  to change the bottom setting. With (+:Up), the area is set upward from the bottom edge of the image. With (-:Down), the area is set downward from the bottom edge of the image. The value changes in 1 mm units. Then press  to activate the setting. The scanner displays Screen 44.




Screen 44

```
! 1 8 - 4   F B   L e f t
L e f t =     0 m m
```



6. At Screen 44, press  or  to change the left setting. The value changes in 1 mm units. Then press  to activate the setting. The scanner displays Screen 45.

Screen 45

```
! 1 8 - 5   F B   R i g h t
R i g h t =     0 m m
```




- At Screen 45, press  or  to change the top setting. The value changes in 1 mm units. Then press  to activate the setting. The scanner displays the next setup item.

17 Color to be Read in Unicolor Reading


- Press "Next"  or "Previous"  and let the scanner display Screen 46.

Screen 46



!	1	9	R	e	a	d	C	o	l	o	r
=	R	/	G	/	B						

- At Screen 46, press  or  to select a light source. Press  if you want to activate the setting.

NOTICES

- The specification from the host computer has priority.
 - The default is G (Green).
- Press  to return.

18 Setting the Grayscale Mode

- Press "Next"  or "Previous"  to display Screen 47 on the LCD.

Screen 47

!	2	0	G	r	a	y	M	o	d	e	
=	N	o	r	m	a	l	/	F	a	s	t

- In Screen 47, press  or  to select "Normal", "Fast".



"Normal" refers to quality priority mode. When "Normal" is selected, scanning is performed at a quality higher than that of the Fast mode.

"Fast" refers to the regular mode. When "Fast" is selected, scanning is performed at the machine defaults for image quality and speed.

The lower display of Screen 47 is switched as follows:

- "Normal/Fast" is displayed, and "Normal" flashes.
- "Normal/Fast" is displayed, and "Fast" flashes.

Switch between the above states as follows:

- Press  : The lower display of Screen 47 is switched cyclically in order from 2 to 1.
- Press  : The lower display of Screen 47 is switched cyclically in order from 1 to 2.

Speed: 2 > 1



Image quality: 1 > 2

Changing this mode does not affect color and black-and-white scanning.

3. Then press **Enter** to activate the setting. The scanner displays the next item of the setup mode.

19 Reset of the Ink Remain Counter

The ink remain counter checks the service life of the print cartridge and makes a message “Please a new Ink” to prompt you to prepare a new ink cartridge. When the imprinter cannot print any more, replace the print cartridge and reset the Ink remain counter as follows. You must reset the ink remain counter even if you replace the print cartridge before its service life.

1. Press “Next”  or “Previous”  and let the scanner display Screen 48. First, “No” blinks.

Screen 48

!	2	1		I	n	k		r	e	m	a	i	n		
=	■	□	□	□	□	□		R	e	s	e	t	/	N	o

2. press , then “Reser” blinks. (Screen 49).


Screen 49

!	2	1		I	n	k		r	e	m	a	i	n		
=	■	□	□	□	□	□		R	e	s	e	t	/	N	o

3. Press **Enter**. The reset execution screen appears. First, “No” blinks. (Screen 50)

Screen 50

!	2	1	-	1		R	e	s	e	t		N	o	w			
												N	o	/	Y	e	s

4. Press , then “Yes” blinks. (Screen 51)

Screen 51

!	2	1	-	1		R	e	s	e	t		N	o	w			
												N	o	/	Y	e	s

- Press **[Enter]** to perform reset operation. The ink remain indicator returns to ■■■■■■ .
(Screen 52)

Screen 52

!	2	1		I	n	k		r	e	m	a	i	n		
=	■	■	■	■	■	■		R	e	s	e	t	/	N	o

- Press **[Exit]**. The LCD returns to the “Ready” screen.

Screen 53

										X	X	X	X
R	e	a	d	y		X	X	X	X	X	X	0	>

20 Setting the Numbering Print Function(for fi-434PR Imprinter Option)

You can specify conditions of the numbering print function from the operator panel when the scanner is equipped with the fi-434PR imprinter. The numbering counter increments 1 each a sheet of paper is read. Numbering print starts with a top margin of 7mm.

- Press “Next” **◁** or “Previous” **▷** and let the scanner display Screen 54.

Screen 54

!	2	2		N	u	m	b	e	r	i	n	g
=		O	n	/	O	f	f					

- At Screen 54, press **◁** or **▷** to select “On” then Press **[Enter]** if you want to activate the setting function. The scanner displays Screen 55, indicating that the setting function is activated.

Screen 55

!	2	2		N	u	m	b	e	r	i	n	g
=		H	o	s	t							

NOTICE

When the setting function is disabled, the Screen 56.

Screen 56

!	2	2	-	1		D	i	g	i	t	s
=		5	/	8							

- At Screen 55, select the number of digits. press **◁** or **▷** to select “5” or “8” then press **[Enter]**. the scanner displays Screen 57.

Screen 57

!	2	2	-	2		S	t	a	r	t		C	o	u	n	t
=		0	0	0	0	0	0	0	0	0	0					

4. At Screen 57,select the initial number.Press \diamond or \diamond to move the place of the blinking (changeable) digit and press \diamond or \diamond to change the value, than press **Enter** . The scanner displays Screen 58

Screen 58

```
! 2 2 - 3   E m p t y R e s e t
=   O n / O f f
```

 **NOTICE**

The possible maximum number is 99999 (for five digits) or 16777215 (for eight digits).

5. At Screen 58,specify whether the number is initialized at hopper empty.Press \diamond or \diamond to select “On” if you want to initialize, than press **Enter** . The scanner displays Screen 59

Screen 59

```
! 2 2 - 4   R e s e t ?
              N o / Y e s
```

6. At Screen 59,specify whether the number is reset at once.Press \diamond or \diamond to select “yes” if you want to reset at once, than press **Enter** . The scanner terminates the setup mode.

 **NOTICE**

The command from the host computer overrides the specification of the operator panel.When the host computer issues a command disabling the specification of the operator panel,Screen 59 does not appear.

TROUBLESHOOTING

This chapter describes some potential problems and solutions that may occur when using this scanner.

Troubleshooting.....8-2

Troubleshooting

This chapter describes some potential problems and solutions that may occur when using this scanner. Should any of the following problems arise, refer to the relevant section listed below.

- Power doesn't turn on Refer to "Chapter 4 Troubleshooting" of Cleaning & Maintenance
- Operator Panel goes blank Refer to "Chapter 4 Troubleshooting" of Cleaning & Maintenance
- Scan doesn't start Refer to "Chapter 4 Troubleshooting" of Cleaning & Maintenance
- Image or photo scan output is poor . Refer to "Chapter 4 Troubleshooting" of Cleaning & Maintenance
- Text or line scan output is poor Refer to "Chapter 4 Troubleshooting" of Cleaning & Maintenance
- Scan image is distorted or unclear .. Refer to "Chapter 4 Troubleshooting" of Cleaning & Maintenance
- Scan image is striped Refer to "Chapter 4 Troubleshooting" of Cleaning & Maintenance
- "Check" LED turns on Refer to "Chapter 4 Troubleshooting" of Cleaning & Maintenance
- "Clean pick roller" LCD message Refer to "Chapter 4 Troubleshooting" of Cleaning & Maintenance
- "Clean ADF glass" LCD message .. Refer to "Chapter 4 Troubleshooting" of Cleaning & Maintenance
- Frequent Multi-feeds Refer to "Chapter 4 Troubleshooting" of Cleaning & Maintenance
- Frequent pick-misses Refer to "Chapter 4 Troubleshooting" of Cleaning & Maintenance
- Frequent paper jams Refer to "Chapter 4 Troubleshooting" of Cleaning & Maintenance

NOTICE

If the problem cannot be solved, contact your sales or service representative.

CONSUMABLES AND OPTIONS

This chapter describes the consumables and options.

Consumables	9-2
Options	9-3
VIDEO INTERFACE BOARD	9-4
IPC-4D(IMAGE PROCESSING CIRCUIT BOARD)	9-9
fi-434PR(IMPRINTER)	9-10
fi-475CMP3(JPEG COMPRESSION BOARD)	9-11

Consumables

The following table lists consumables used for the scanner. Be sure to keep some consumables in stock. The customer is responsible for changing these items periodically, in accordance with the guidelines given below and in the “Cleaning and Maintenance” manual. If they are not changed as recommended, the scanner may not function properly. The abrasion counter can be used to check the total number of documents scanned since the last replacement(s).

Name	Specification	Remarks
Pad ASSY	PA03277-0002	Up to 100,000 sheets or one year.
Pick rollers	PA03277-0001	Up to 200,000 sheets or one year. (Two rollers are included.)

 **NOTICE**

Refer to the Cleaning and Maintenance guide for replacing the consumables.

 **CAUTION**

Certain paper types or conditions might reduce the life of consumables.

Options

The following table lists options available for the scanner.

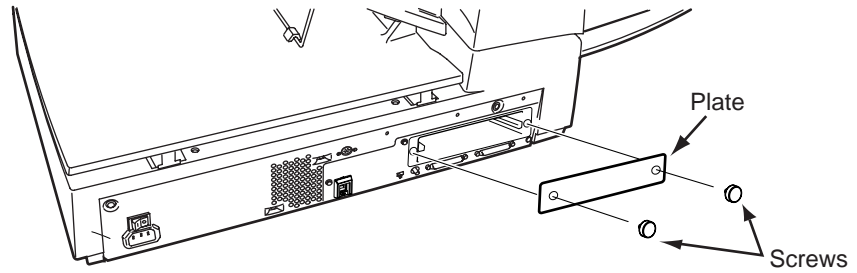
Product name	P/N
VIDEO INTERFACE BOARD	CA02956-2391
IPC-4D(IMAGE PROCESSING CIRCUIT BOARD)	CA02919-0521
fi-434PR(IMPRINTER)	PA03237-D103
fi-475CMP3(JPEG COMPRESSION BOARD)	CA02956-2398

Contact your sales agent or PFU Limited and Fujitsu Group Offices for more information.

VIDEO INTERFACE BOARD

■ How to Install the VIDEO INTERFACE BOARD

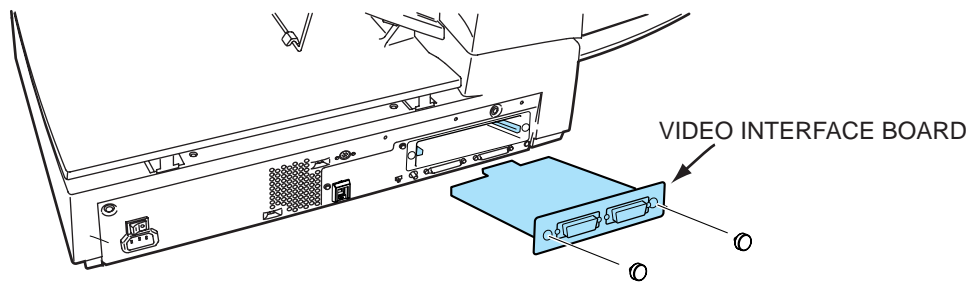
- 1** Loosen the two screws to remove the plate.



CAUTION

Turn Off the power before removing the Third Party slot plate.

- 2** Insert the board along the rails of the third party slot. Make sure that the connector is connected securely. Secure the board with two screws.



CAUTION

Protective measures are required to prevent damage from static electricity.



NOTICE

When the scanner power is turned On again, the scanner automatically recognizes the video interface board.

■ Reading Mode Setting When the VIDEO INTERFACE BOARD is Installed

This section describes the button specifications and setup details for reading modes when the scanner has the VIDEO INTERFACE BOARD in the third party slot.

When the reading mode is set by the command from the host computer, the following button operation is not required.

NOTICE

When the VIDEO INTERFACE BOARD is installed in the scanner, the scanner automatically recognizes the board and changes the display.

Whenever you press **[Exit]**, the scanner returns to screen M1.

1. Turn the power On and verify that “Scanner Ready” is displayed on the LCD.

Screen M1

```

                                     X X X X
R e a d y           X X X X X 0 >

```

2. Press **[Next]** then the scanner displays Screen M2.

Screen M2

```

M o d e   S e l e c t   0
☐ R e a d i n g   M o d e

```

3. Press **[Enter]** then the scanner displays Screen 1.

Screen 1

```

☐ 0 1   I m a g e   S o r r c e
= A D F / F B

```

4. Select ADF or FB by pressing **◊** or **◊** then press **[Enter]**. The scanner displays Screen 2.

Screen 2

```

☐ 0 2   R e a d i n g   f a c e
= S i m p l e x / D u p l e x

```

5. Select “Simplex” or “Duplex” by pressing **◊** or **◊**. Then press Enter. The scanner displays Screen 3.

Screen 3

```

☐ 0 3   O r i e n t a t i o n
= P o r t / L a n d

```

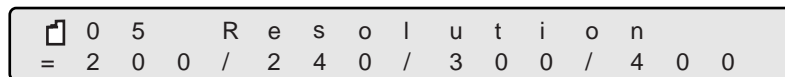
6. Select "Portrait" or "Landscape" by pressing \diamond or \diamond . Then press **Enter**. The scanner displays Screen 4.

Screen 4



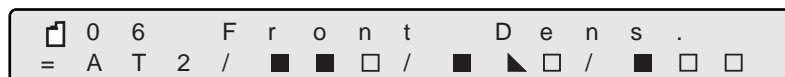
7. Select Size by pressing \diamond or \diamond . Then press **Enter**. The scanner displays Screen 5.

Screen 5



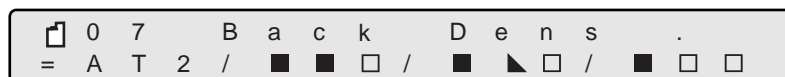
8. Select Resolution by pressing \diamond or \diamond . As the cursor moves to the left 100/150 may appear. Then press **Enter**. The scanner displays Screen 6.

Screen 6



9. Select Front Density by pressing \diamond or \diamond . As the cursor moves to the right, ■ ▲ □ / ■ □ □ may appear. Then press **Enter**. The scanner displays Screen 7.

Screen 7



Density display

Without IPC-4D option	With IPC-4D option	Description
■ ■ ■	■ ■ ■	Very dark
■ ■ ▲	■ ■ ▲	Dark
	AT1 (*)	Dynamic Threshold (DTC mode)
	AT2 (*)	Simplified Dynamic Threshold (IPC mode)
■ ■ □	■ ■ □	Normal
■ ▲ □	■ ▲ □	Light
■ □ □	■ □ □	Very light

*) This parameter appears only when IPC-4D (IMAGE PROCESSING CIRCUIT BOARD) is installed.

10. Select Back Density (when “Duplex” was Selected) by pressing \diamond or \diamond . As the cursor moves to the right, $\blacksquare \blacktriangleright \square / \blacksquare \square \square$ may appear. Then press **Enter**. The scanner displays Screen 8.

Screen 8

```

  0 8   F . H a l f t o n e .
  = N o / H 1 / H 2 / L 1 / L 2

```

11. Select Front Halftone by pressing \diamond or \diamond .

Parameter	Description
No	Halftone is Off. Therefore binary reading is specified.
H1	Halftone with dither is specified.
H2	Halftone with error diffusion is specified.
L1 (*)	Automatic separation with dither is specified.
L2 (*)	Automatic separation with error diffusion is specified.

*) This parameter appears only when the IPC-4D(IMAGE PROCESSING CIRCUIT BOARD) is installed.

Press **Enter** to confirm. The scanner displays Screen 9.

Screen 9

```

  0 9   B . H a l f t o n e .
  = N o / H 1 / H 2 / L 1 / L 2

```

12. Select Back Halftone (when “Duplex” was specified) by pressing \diamond or \diamond . The parameters are the same as in step 11. Press **Enter** to confirm. The scanner displays Screen 10.

Screen 10

```

  1 0   F o n t   D o c .
  = L i n e / P h o t o

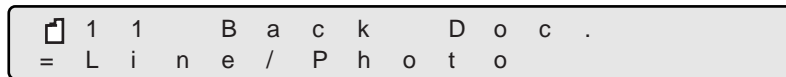
```

13. Select Front Document Type by pressing \diamond or \diamond .

Parameter	Description
L. (Line)	White level following is ON. Top 3mm part of the document must be left blank (grounding color is drop-out color). Use this specification for reading line arts or texts.
P. (Photo)	White level following is Off. Use this specification for reading photographs.

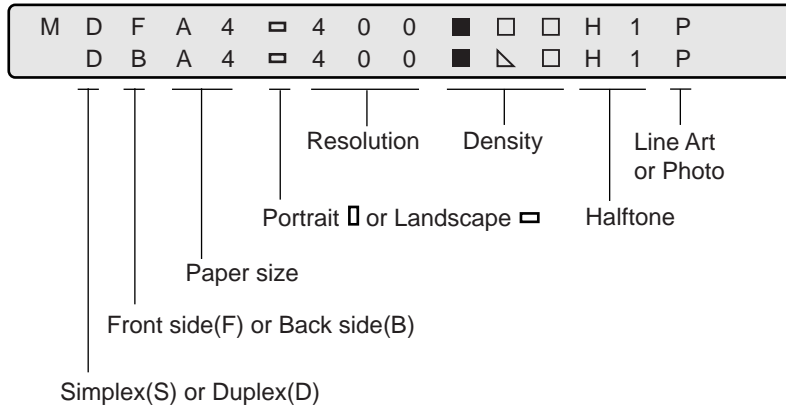
Press **Enter** to confirm. The scanner displays Screen 11.

Screen 11



14. Select Back Document Type (when “Duplex” was specified) by pressing \diamond or \diamond . The parameters are the same as in step 13. Press **Enter** to confirm. The scanner displays Screen 12.

Screen 12(Example)



15. Confirm what you have specified.

If some parameter needs to change, press **Next** or **Previous** to select the corresponding screen and re-select the parameter by pressing \diamond or \diamond and finally press **Enter**.

If all parameters are acceptable, press **Exit** to return to the “Scanner Ready” screen.

IPC-4D(IMAGE PROCESSING CIRCUIT BOARD)

The IPC-4D(IMAGE PROCESSING CIRCUIT BOARD) performs the image processing.
IPC-4D(IMAGE PROCESSING CIRCUIT BOARD) supports the following image processing.

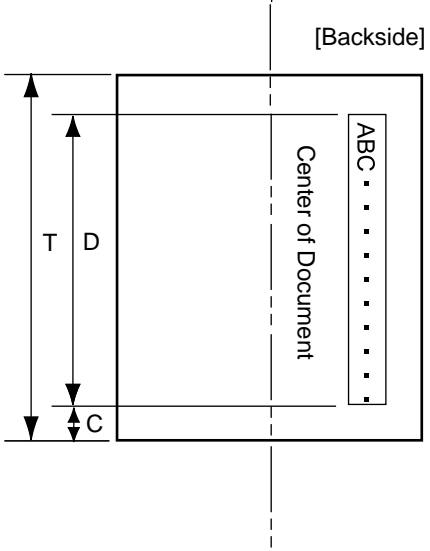
Item	Description
Pre-Filter	BallPoint Pen Mode : Smooth ballpoint pen strokes into a single bold line.
Background Removal	Remove background tone and light dither.
Dynamic Threshold	Dynamic Threshold: Automatically optimize binary threshold level to separate text from background, for high contrast output. IPC-2-like Dynamic Threshold: Optimizes the binary threshold level to separate text from background, allowing light text to be captured while maintaining sharpness.
Noise Removal	Dot removal size settable from 2x2 to 5x5. Optical noise (speckles, etc.) is automatically detected and removed from the output.
Auto Separation	Auto Separation : Automatically, detects the text area for binarizing and the photo area for dithering.
Outline Extract	Outline Extract outline of the image
Image Emphasys	Emphasis (Low/Middle/High/Smooth) : Emphasis contour.

NOTICE

For the installation and functions of the IPC-4D(IMAGE PROCESSING CIRCUIT BOARD), refer to the supplied manual.

fi-434PR(IMPRINTER)

The following table shows specifications of the fi-434PR(IMPRINTER).

Item	Specification
Printing Method	Thermal inkjet printing
Printed Characters	Alphabet Letters : A to Z, a to z Numeric Characters : 0,1 to 9 Symbols : ! " # \$ % & ' () * + , - . / : ; < = > ? @ [¥] ^ _ ' { } ~
Maximum Number of Characters Printed	40
Character Size	Height 2.91 mm to width 2.82 mm
Character Pitch	About 3.53 mm
Printing Area	<p>The printable area of the backside of document is as follows:</p> <p>T Length of document $D \leq 140.5\text{mm}$ (for 40 columns) $C \geq 70.0\text{mm}$</p> <p>$T - (C + D) \geq 7\text{mm}$</p>  <p>[Backside]</p> <p>Center of Document</p> <p>ABC</p>
Consumable	Print Cartridge (CA00050-0262)

 **NOTICE**

For the installation and functions of the fi-434PR(IMPRINTER), refer to the supplied manual.

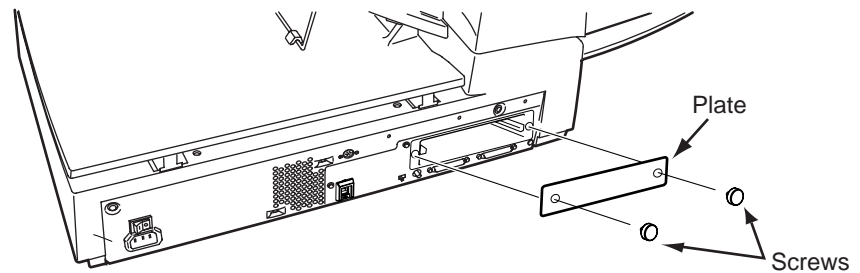
fi-475CMP3(JPEG COMPRESSION BOARD)

The following table shows specifications of the fi-475CMP3(JPEG COMPRESSION BOARD).

Item	Specification
Standard	Conforms to the ISO/IEC 10918-1 JPEG standard baseline process
Format	gray and multi-color images (JPEG)
Scan range	duplex A3/600 dpi, compression scans possible
Compressed Processing	Real time duplex compression processing
JPEG compression ratio	Built-in quantum table providing a 7 grade selection ranging from small compression rate (prioritizing image quality) to high compression rate (prioritizing size)
Other functions	Quantum table download function
Device	Slide-in type for easy installation

■ How to Install the fi-475CMP3(JPEG COMPRESSION BOARD)

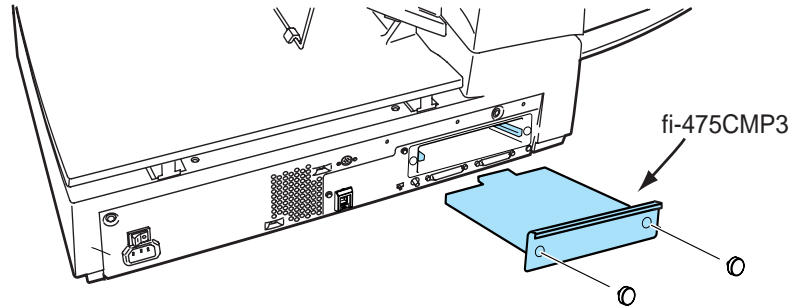
- 1** Loosen the two screws to remove the plate.



CAUTION

Turn Off the power before removing the Third Party slot plate.

- 2** Slide the fi-475CMP3(JPEG COMPRESSION BOARD) fully into the option slot along it's internal rails, and fasten with the two screws provided.



 **CAUTION**

Protective measures are required to prevent damage from static electricity.

SCANNER SPECIFICATIONS

This chapter describes the basic product specifications, installation specifications, and dimensions.

Basic Product Specification	10-2
Installation Specification	10-3
Dimensions	10-4

Basic Product Specification

1	Scanner Type	ADF (Duplex), Document bed		
2	Image sensor	CCD x 2		Front/Back
3	Light source	White Xenon discharge tube x 2		Front/Back
4	Document Size	Minimum	A8 (Portrait)	127g/m ²
		Maximum	A4/Letter/Legal	US Ledger
5	Paper Weight	52 g/m ² (14 lb) to 127 g/m ² (34 lb)		Note (*1)
6	Scanning Speed Note (*2)	Mono-chrome	40 pages/min simplex, 80 sides/min duplex	200 dpi Note (*3)
		Color	34 pages/min simplex, 48 sides/min duplex	150 dpi
7	ADF Capacity	100 sheets		A4, 64 g/m ² (20 lb) Note (*3)
8	Optical Resolution	600 dpi		
9	Output Resolution Note (*4)	Binary	50 - 800 dpi	Standard gradient is 1 dpi, (multiples are possible)
		Grayscale	50 - 600 dpi	Standard gradient is 1 dpi, (multiples are possible)
		Color	50 - 600 dpi	Standard gradient is 1 dpi, (multiples are possible)
10	Grayscale level (internal)	8 bits per Color		Internal 10 bits
11	Halftone Patterns	Dither/Error diffusion		
12	Other function	JPEG compression		Note (*5)
13	Interface Note (*6)	SCSI-2		Shield-type 50 pin (pin-type) half-pitch
		USB2.0		
		Third Party Slot		Note (*7)

NOTES

- *1: The details are described in Chapter5 "ADF DOCUMENT SPECIFICATION".
- *2) The scanning speeds given are the maximum mechanical scanning speeds. During actual scanning some extra time will be required for data transfer and software processing.
- *3) The maximum number will differ due to the paper thickness. Refer to Chapter5 "ADF DOCUMENT SPECIFICATION".
- *4) Maximum output resolution may vary according to the scan size, and setting (simplex/duplex)
- *5) fi-475CMP3 (JPEG compression board) must be installed.
- *6) USB, SCSI-2 and the Third Party Slot can not be used at the same time.
- *7) The Power consumption of the boards should be as follows:
- In the Low Power Mode : Less than 0.35 A

Installation Specification

- Without IPC-4D(IMAGE PROCESSING CIRCUIT BOARD) : Less than 1.5 A
- With IPC-4D(IMGGE PROCESSING CIRCUIT BOARD) : Less than 3.0 A

The following table lists the installation specifications of the scanner.

Item		Specification		
Dimensions (mm) (Without ADF paper chute and Stacker)		Depth	Width	Height
		423 (16.6 in)	556 (21.9 in)	220 (8.7 in)
Weight (kg)		15 (48.4 lb.)		
Input power	Voltage	100 to 120 VAC \pm 10 % or 220 to 240 VAC \pm 10 %		
	Phases	Single-phase		
	Frequency	50/60 \pm 3 Hz		
Power consumption		125 VA or less		
Ambient condition	Device status	Operating	Not operating	
	Temperature	5 to 35 °C (41 to 95 °F)	-20 to 60 °C (-4 to 140 °F)	
	Humidity	20 to 80 %	8 to 95 %	
Heat capacity		110 kcal/H (442 BTU/H)		
Shipping Weight (kg)		19 (41.9lb)		

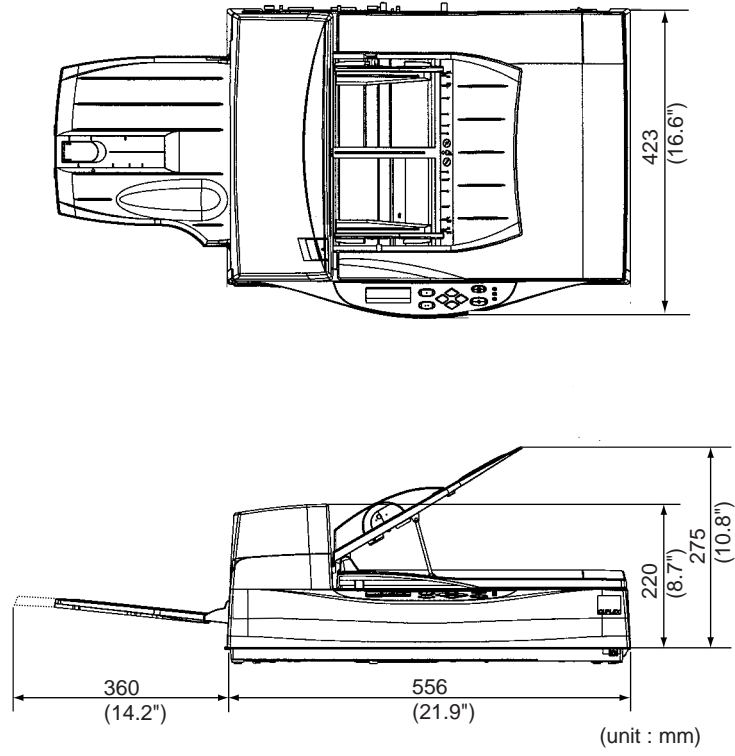
NOTICE

The service life is estimated at 5 years after purchase or 2 million scans, whichever comes first. The cumulative number of scans are recorded by the Life Counter. For details on how to view the Life Counter display, refer to Chapter6 “Counter Display (page 6-2)”.

NOTICE

Refer to the Cleaning and Maintenance guide for replacing the consumables.

Dimensions



GLOSSARY OF TERMS

A4 size

A standard paper size. Paper size is 210 x 297 mm.

A5 size

A standard paper size. Paper size is 148 x 210 mm.

A6 size

A standard paper size. Paper size is 105 x 148 mm.

A7 size

A standard paper size. Paper size is 74 x 105 mm.

A8 size

A standard paper size. Paper size is 53 x 74 mm.

Abrasion counter

Counts the cumulative number of documents read to indicate when belts/rollers should be replaced. The number of read documents accumulates until an operator resets the counter. The counter should be reset when these consumables are replaced.

ASCII

The acronym for American Standard Code for Information Interchange.

ASCII is a set of 256 codes (numbered 0 to 255) used to communicate information between a computer and another device such as a scanner.

Automatic separation

An image processing method in which the scanner automatically detects difference between text and photos, and chooses the threshold accordingly. Automatic separation allows the scanner to switch between line mode and half tone mode in one pass.

Automatic start mode (<-> manual start mode)

In this mode, the reading operation is activated only by issuing the START command.

Backside reading = Back-side scanning

Refers to reading the backside of the document, specifically in Duplex reading mode.

Bit

The smallest unit of information in computer memory. A bit is a single digit, either a 1 or a 0, in the binary numbering system. Eight bits equal one byte.

Density

In this manual, refers to a measurement of the depth of the display.

Dither

Technique for producing halftone images by representing the entire grayscale with only two pixel levels, black and white.

Multi feed detection

A scanner function which detects the accidental feeding of multiple sheets by the ADF unit. Can be turned on or off by the operator.

Double Letter Size

A standard paper size used in the U.S.A. and other countries. Paper size is 11 x 17 inches.

dpi

Dots per inch.

Dropout color

A color which is used in the document but does not appear in the read image.

Duplex reading mode

A reading mode in which both sides of the document are read.

Equipment Error

An error that cannot be corrected by the operator. Call CE.

Error diffusion

High-quality halftone (pseudo-grayscale) image production based on black-and-white pixel binarization. A pixel's optical density and that of adjacent pixels are summed, with black pixels relocated in their order of density as they relate to adjacent pixels.

The purpose of this technique is to minimize the average error between read and printed densities. Density data for adjacent pixels is modified by diffusing errors on the objective pixel into several pixels, which are then binarized. This maintains high grayscale levels and resolution during reading, while suppressing more patterns by dotted halftone images such as newspaper photographs.

FB

In this manual, FB means flat bed.

Filtering

A correction method that improves the read quality of handwritten documents. The read quality of images written in pencil or ball-pointed pen depends on the reflective light characteristics of the specific ink or lead used. Dropped pixels may produce outlines, gaps, or thin, barely connected lines due to uneven optical density. Filtering detects areas lighter than their surroundings and increases their density to improve image clarity.

Front-side reading = Front-side scanning

Refers to reading the front side of the document, specifically in Duplex reading mode.

Halftone processing

Any method used to reproduce a photograph which includes a shade as an image composed of dots, namely, a binary image. Dithering and error diffusion processing are examples of halftone processing.

Hexadecimal

A base-16 numbering system (also commonly referred to as hex numbers). Since a base-16 system requires 16 digits, numbers 0 through 9 and letters A through F are used. It is convenient to express binary numbers in hexadecimal because fewer digits are required.

Image emphasis

Density is decreased for lighter but not completely white areas adjacent to black areas. Weakening this emphasis eliminates spot noise or produces softened images.

Image processing

An image is read with specified parameters.

Interface

The connection that allows communication from one part of a system to another. For example, electrical signals are transferred between the computer and scanner over an interface cable.

Inversion (Reverse-image reading)

In reverse-image reading, data is changed from black to white and vice versa.

IPC preset mode

While reading binary images, it is necessary to set the scanner according to the quality of the sheet to be read. In this mode, these settings can be performed in advance by corresponding each setting to a pattern number.

IPC-4D

Image processing option of this scanner.

IRAS

Initialization of the hardware.

Landscape orientation

A document is transported and read with the long side vertical to the moving direction.

Letter size

A standard paper size used in the U.S.A. and other countries. Paper size is 8-1/2 x 11 inches.

Linedrawing mode

Selecting linedrawing mode makes threshold and contrast settings effective but prevents brightness from being set. The specified threshold value determines whether black or white pixels are scanned. Line drawing mode is therefore appropriate for scanning text and line art images.

Manual Feed mode = Manual Mode

Requires the operator to feed each document manually into the ADF paper chute.

Manual start mode (<-> automatic start mode)

The reading operation is activated by pressing the START button in this mode. Available only when video option board is installed.

Mirror image

The read image is symmetrically flipped to produce a mirror image of the original detected in the main scanning direction.

Noise removal

Isolated noise from an image appearing as black spots in white areas and voids in black areas is removed to improve image quality.

Operator panel

A panel containing the scanner indicators and buttons. The operator panel is used to control scanner operations such as loading document, selecting features, and changing setup options.

Outline extraction

The boundary between black and white areas is traced and the outline extracted for closed areas.

PAPER JAM

A warning informing the user that document is jammed in the transport unit, or that transportation is disabled because the transport unit is slippery. This warning also appears when a Multi feed is detected.

Photograph mode (White level follower OFF)

Selecting photograph mode makes brightness and contrast settings effective but prevents the threshold from being set. With photograph mode, the darkness of image corresponds to the black-pixel density, making it suitable in scanning images such as photographs having gradations.

Photo mode = photograph mode

A photograph is read properly in this mode.

Pick start time

The period from the manual insertion of the document until picking starts after the document passes the hopper empty sensor.

Portrait orientation

A document is transported and read with the long side parallel to the moving direction.

Paper counter

Indicates the total number of read document from start of reading until the hopper becomes empty.

Read operation

Refers to the reading operation including Simplex reading and Duplex reading.

RS-232C interface

A type of serial interface. See Serial interface.

SCSI-ID

Used to specify a particular SCSI device when the initiator selects a target or the target reconnects to the initiator.

Serial interface

A standard computer interface. Information is transferred between devices over a single wire (although other wires are used for control).

With a serial interface, an interface cable greater than 3 meters (10 feet) can be used. This is often necessary in networking environments, where the scanner may be shared.

SETUP mode

In this mode, users can view or set a variety of function in off-line.

Simplex reading mode

Only the front side of the document is read in this mode. Place the documents face up at the center of the hopper table.

Smoothing

A process that eliminates “jaggies” from slanted lines and curves. Irregular convexities are deleted and irregular concavities filled in. This is useful in OCR applications, for example.

Temporary Error

An error correctable by the operator.

Terminator

Devices with a SCSI interface can be daisy-chained. A resistor that includes terminal circuits needs to be placed at both ends of a cable when devices are daisy-chained. If a device (such as a scanner) is the last device in a chain, leaving an interface connector unused, a Terminator therefore must be attached to provide those terminal circuits.

Third Party Interface

Optional board provided by Fujitsu or interface board provided by a third party can be installed and used.

Time-out limit

This is the time the scanner waits for next document insertion after the last document feeding. The scanner returns Paper Empty when no document is set after time-out limit.

TPS

Third Party Slot.

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fi-4340C Image Scanner Operator's Guide

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