fi-6000NS
fi-6010N (iScanner)
Network Scanner
Maintenance Manual

09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	fi-6000NS, fi-6010N Network Scanner Maintenance Manual		
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Revision Record		
Edition	Date published	Revised contents
D01	January 31, 2007	Draft 01 version
01	March 6, 2007	First edition
02	April 26, 2007	Second edition
03	July 20, 2007	Third edition. P30, 37: Part number of UPPER UNIT AR changed. P31, 41, 43: Part numbers of PC BOX UNIT and HDD UNIT added.
04	August 31, 2007	P15: Structure (appearance) added. P50, 51: Flowcharts changed. P38: Remarks added. Appendix 1: Result code list revised.
05	November 19, 2007	P32, 43, 45, 46, 47, 50: Maintenance parts added. P58: System log added.
06	January 8, 2008	P3: Manuals added. P11 Packaged weight added. P32, 49: KB COVERs deleted. P45, P116: Description regarding KB-USB-CABLE revised.
07	January 18, 2008	P115, 116: KB UNIT removal/installation procedure revised.
08	June 4, 2008	New model fi-6010N added.
09	October 27, 2008	Sections 1-1-1, 4-2-2, 4-3-1, 4-3-3, 6-3-7: Descriptions changed. Section 1-1-2: A8 size revised. Section 1-3-3, Chapter 3, Section 3-29: LCD Unit Part number added. Section 4-1-1: Reference sections revised. Section 4-3: Log lists revised. Appendix 2-2: Title changed.

The contents of this manual are subject to change without prior notice.

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Preface

This manual provides the technical information such as maintenance, troubleshooting procedure and parts replacement procedure for field Engineers on fi-6000NS network scanner.
This manual is for use as a maintenance tool only.

For information that is not contained in this manual, refer to the following manuals:
06

Item	Manuals	P/N *	Remarks	
1	fi-6000NS Operator's Guide	P3PC-1852-xxENZ0	For PA03544-B00X	Saved in the scanner
2		P3PC-2122-xxENZ0	For PA03544-B075	
3		P3PC-2272-xxyyZ0	For PA03544-B011	
4	fi-6000NS Getting Started	P3PC-1862-xxEN	For PA03544-B00X	Attached to fi-6000NS (booklet)
5		P3PC-2132-xxEN	For PA03544-B075	
6		P3PC-2282-xxXA	For PA03544-B011	
7	fi-6010N Operator's Guide	P3PC-2372-xxEN	Saved in the scanner	
8	fi-6010N Getting Started	P3PC-2382-xxEN	Attached to fi-6010N (booklet)	

* xx represents revision number of the manuals.

* yy represents language written in the manuals. 06

Convention

Special information, such as warnings, cautions, is indicated as follows:

⚠️ WARNING

This indication alerts operators to an operation that, if not strictly observed,
may result in severe injury or death.

⚠️ CAUTION

This indication alerts operators to an operation that, if not strictly observed,
may result in safety hazards to personnel or damage to equipment.

🖉 NOTICE

NOTICE provides "how-to" tips or suggestions to help you perform a
procedure correctly.

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Other product names are the trademarks or registered trademarks of the respective companies.

How Trademarks are Indicated in This Manual

References to operating systems (OS) and software are indicated as follows:

Windows: Microsoft® Windows® operating system

Windows® XP: Microsoft® Windows® XP Professional operating system
                 Microsoft® Windows® XP Home Edition operating system

Windows Vista™: Microsoft® Windows Vista® Home Basic operating system
                Microsoft® Windows Vista® Home Premium operating system
                Microsoft® Windows Vista® Business operating system
                Microsoft® Windows Vista® Enterprise operating system
                Microsoft® Windows Vista® Ultimate operating system

Windows® 2000 Server: Microsoft® Windows® 2000 Server
                        Microsoft® Small Business Server 2000
                        Microsoft® Windows® 2000 Advanced Server

Windows Server® 2003: Microsoft® Windows Server® 2003, Standard Edition
                      Microsoft® Windows Server® 2003, Enterprise Edition
                      Microsoft® Windows Server® 2003, Datacenter Edition
                      ~~Microsoft® Windows Server® 2003, Web Edition~~

Windows Server® 2008: Microsoft® Windows Server® 2008, Standard Edition (fi-6010N)
                      Microsoft® Windows Server® 2008, Enterprise Edition (fi-6010N)
                      Microsoft® Windows Server® 2008, Datacenter Edition (fi-6010N)

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

.NET Framework 2.0 Microsoft® .NET Framework 2.0

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Chapter 1   OVERVIEW

1-1   Specification

1-1-1   Features

The fi-6000NS/fi-6010N (hereinafter called "the device") has the following features. The individual scanner model name fi-6000NS or fi-6010N is indicated to explain the differences between these two devices.

1)   A network scanner that enables you utilize the scanned data easily as follows:
- Attach the scanned data to your e-mail.
- Facsimile the scanned data.
- Output the scanned data from the network printer.
- Save the scanned data to the network folder.
- Limit users by the user authentication function.
- Output the scanned data as the PDF with password.

2)   Scanning of monochrome / gray / color documents
The scanner offers monochrome/gray/color scanning with 600 dpi of optical resolution, up to A4/Legal size.
Color scanning speed of A4 Portrait (200dpi) is 25 ppm.

3)   Ultrasonic multi feed sensor
The previous model has the optical sensor which detects the length of documents and transmitted light to detect the multi feed. This scanner introduces ultrasonic sensor in order to perform very reliable multi feed detection.

4)   Loads Job button, Encryption network, Central admin (new functions on fi-6010N). 09

Job button function
Office-use functions (Saving in folder, emailing, printing, faxing) can be assigned for individual login user's routine task (in order to avoid miss-operation or miss-delivery).

Encryption Network
SSL session can be established for safe communication.

Central Admin
More than one fi-6010NS devices can be intensively managed via network.
Operational administrative is streamlined and Total Cost Ownership is curtailed.
[Note]
The Central Admin is a unique function of fi-6010N. When fi-6000NS and fi-6010N coexist in a network, fi-6000NS cannot use the Central Admin. 09
- Add-in software installation
- System update
- Collective setting of the scanner
- Consumable control

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1-1-2 Device Specifications (common to fi-6000NS and fi-6010N)

No.	Items			Specifications
1	Operating method			Automatic Document Feeder (ADF)
3	Output resolution			150dpi, 200 dpi, 300dpi, 600dpi
4	Image sensor			Color CCD x 2
5	Scanning speed (200 dpi, A4 Portrait)	Binary		Simplex: 25 ppm Duplex: 50 ipm
		Color		Simplex: 30 ppm Duplex: 60 ipm
6	Document	Size		Max. Legal, 210 x 356 mm / 8.27 x 14 in (Portrait) 216 x 864 mm / 8.50 x 34 in (Long page scanning) Min. A8, ~~53~~ 52 x 74 mm / 2 x 3 in (Portrait and Landscape) 09
		Thickness		52 to 127 g/m^2 (14 to 34 lbs)
		Card transport		Available (85.6 x 53.98mm, 0.76mm thick)
7	Capacity of ADF			50 sheets (80g/m^2 or 20lb, A4)
8	Optical system			Lens and mirrors in use
9	Light source			White cold cathode fluorescent discharge lamp x2
10	Multi feed detection			Ultrasonic sensor
11	Background			Selectable (black or white) for Front/Back sides
12	Dropout color			R, G, B, Non-dropout * * The speed for color scanning is applied when non-dropout is selected.
13	Auto cropping			Available
14	Controller	Main board	Mother board	Micro ATX Specification
			CPU	Intel CeleronM370 1.5GHz (1MB/FSB400)
			Chip set	Intel 915GM (Alviso) + ICH6M
			Memory	512MB DDR RAMx1
			HDD	SATA 3.5 inch (80GB)
			I/F Connector	LANx1 (10BASE-T/100BASE-T)
15	Display	8.4 inch Touch screen	Screen	8.4 inch XGA TFT LCD monitor
			Touch panel	Analog resistive touch panel
16	Keyboard			101 keyboard
17	OS, Application			Microsoft Windows XP Embedded Exclusive application for the scanner

1-1-3 Environmental Specifications (common to fi-6000NS and fi-6010N)

No.	Items		Specifications	
1	Input power	Voltage	AC 100 - 240 V ± 10%	
		Frequency	50/60Hz	
2	Power consumption		88W or less (Rated power)	
3	Noise		50 dB or less (excluding operator's area)	
4	Outer dimensions		(excluding Chute and Stacker) 315 (W) x 415 (D) x 281 (H) mm / 12.4 (W) x 16.3 (D) x 11.1 (H) in	
5	Installation space		400 (W) x 700 (D) x 500 (H) mm / 15.8 (W) x 27.6 (D) x 19.7 (H) in	
6	Weight		13kg (28.7 lb)	
7	Ambient condition	Temperature	5 to 35 ^{o}C / 41 to 95 ^{o}F (Operating)	-20 to 60 ^{o}C / -4 to 140 ^{o}F (Not operating)
		Humidity	20 to 80 % (Operating)	8 to 95 % (Not operating)
8	Packaged weight		16kg (35.2 lb.) or less 06	

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1-1-4   Appearance

[Front View of the Device]

6. ADF Paper Chute

7. Side Guides

8. Top Cover

1. Startup Button

2. SCAN Button

3. LCD Touch Panel

4. Keyboard

5. Output Tray

[Rear View of the Device]

9. ADF Release Button

Inside the Back Cover

13. Back Cover

10. Security Cable Slot

11. AC Adapter Connector

12. LAN Connector

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No.	Part Name	Function
1	Startup button	Turns on scanner or brings up the "Login" screen from standby mode.
2	Scan button	Starts the scan process.
3	LCD touch panel	Accepts user input and displays the scanner control screens. The LCD touch panel buttons are used to setup scans.
4	Keyboard	Used to enter text in the control screen input fields. May also be used instead of the touch panel to operate the control screens,
5	Output tray	Scanned documents are ejected from the ADF onto this tray. Small documents may be retrieved by flipping up the keyboard after scanning has completed.
6	ADF paper chute (Chute Unit)	Holds the documents waiting to be scanned (scan side down).
7	Side guides	Adjust to the width of the paper, to prevent skewing of the scanned pages.
8	Top cover	Frames the LCD touch panel, and covers the upper scanner/ADF mechanism. Must be opened to clean inside the scanner, or when replacing consumable parts.
9	ADF release button	Push to unlock the top cover.
10	Security cable slot	Slot for commercially available security cable to prevent against theft. The following security cable is recommended. Type: Right angle Cylindrical part: diameter 25mm (max), length 50mm (max) (includes bent part if a straight cable is used)
11	AC adapter connector	Connects the scanner to the AC adaptor.
12	LAN connector	Connects the scanner to the network.
13	Back cover	When connecting cables, press the tabs on both sides of the back cover to unlock it, and pull it out from the scanner.

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[Back of Main Body]

Rear Panel of PC section

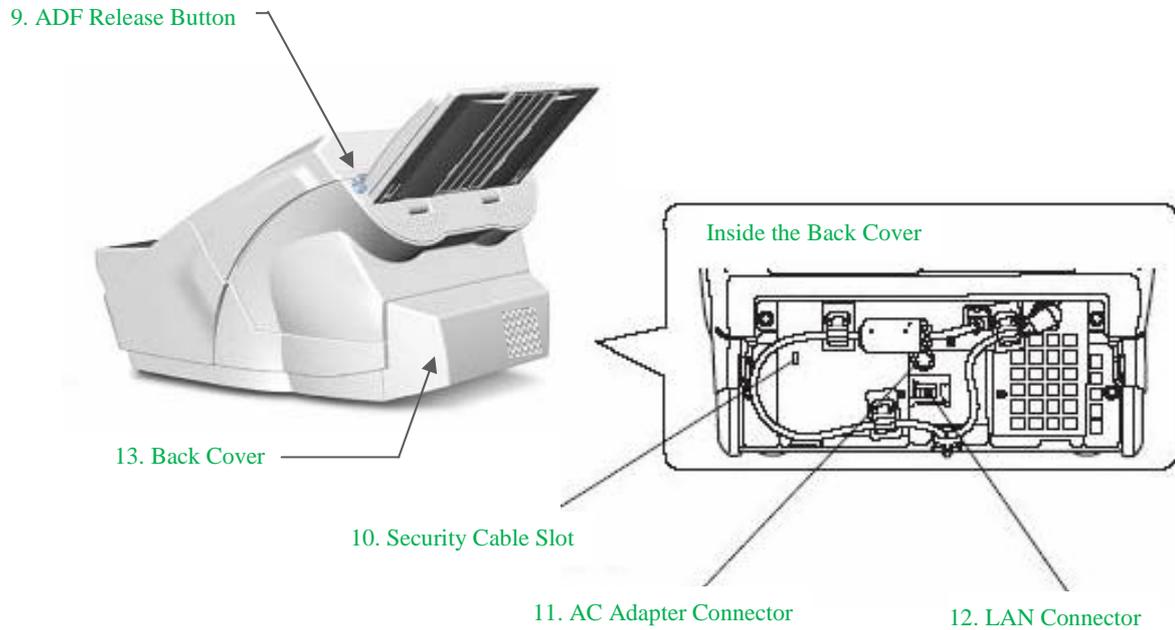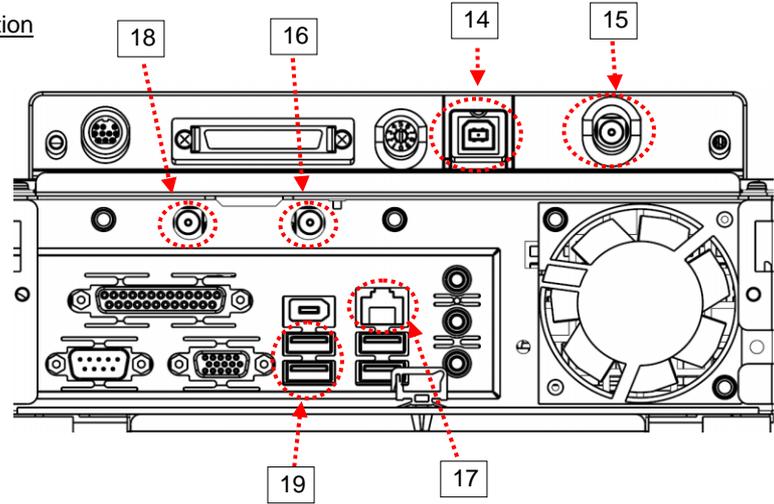| No.	Name	Function
14	USB2.0 Connector	USB type B connector that connects the scanner and PC section
15	DC Connector (DCin)	Supplies DC to the scanner section. Connects to DCout 18 with an exclusive cable.
16	DC Connector (DCin)	Supplies DC to PC section. Connects with an exclusive AC adapter.
17	LAN Connector	Connects the scanner in user's existing network system.
18	DC Connector (DCout)	The connector to supply DC from PC section to the scanner. Connects to DCin 15 with an exclusive cable.
19	USB2.0 Connector	Connects with the Keyboard (upper) and with the scanner (lower).

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04
[Structure of the Device]

LCD UNIT

KB UNIT

Scanner section

PC BOX UNIT

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1-1-5   Outer Dimensions

315

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1-1-6 Document Specifications

- Paper Type

The following paper types are recommended for use with the ADF:
- Woodfree paper
- Wood containing paper

When documents of a paper type other than those listed above are used, test-scan a few sheets first to check if the document can be scanned without problem.

- Paper Weight

The following paper weights can be used with the ADF:

52 to 127 g/m^2 (14 to 34 lb)
For A8 and Business Card size, 127 g/m^2 only

- Precautions

The following documents may not be scanned successfully:
- Documents of non-uniform thickness (e.g. envelopes and documents with attachments)
- Wrinkled or curled documents (See right figure)
- Folded or torn documents
- Documents with appended photographs, notes, etc.
- Tracing paper
- Coated paper
- Carbon paper
- Carbonless paper
- Photosensitive paper
- Perforated or punched documents
- Documents that are not square or rectangular
- Exceptionally thin documents (less than 52 g/m^2)
- Photographs

Do not attempt to scan the following types of documents:
- Paper-clipped or stapled documents
- Documents on which the ink is still wet
- Documents smaller than A8 (Portrait)
- Documents wider than Letter size (216mm, 8.5 inches)
- Non-paper documents (such as fabric, foil or transparent paper)
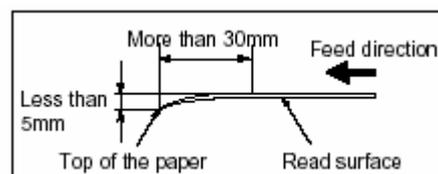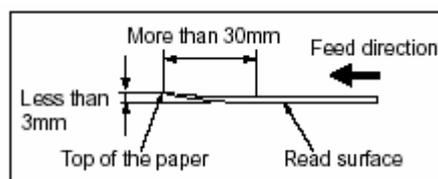
Note: - When scanning semi-transparent documents, slide the [Brightness] to "Light" to avoid image bleed through.
- To prevent the rollers from becoming dirty, avoid scanning documents containing large areas written or filled in with pencil. If scanning of such document is unavoidable, clean the rollers more frequently.

Note: - Carbonless paper contains chemical substances that may damage the Pad ASSY or the Pick and other rollers when documents are fed. Pay attention to the following:
  Cleaning: If pick errors occur frequently, clean the Pad ASSY and Pick roller, by referring Section 7-5-1.
  Replacement parts: The service life of the Pad ASSY and the Pick roller may be shortened when compared to scanning only wood containing paper documents.
- When the Wood containing paper manuscripts are scanned, the life of the Pad ASSY and Pick roller may be shortened compared with the case where Woodfree paper manuscripts are scanned.
- When scanning photographs, the face of the photograph may become damaged.

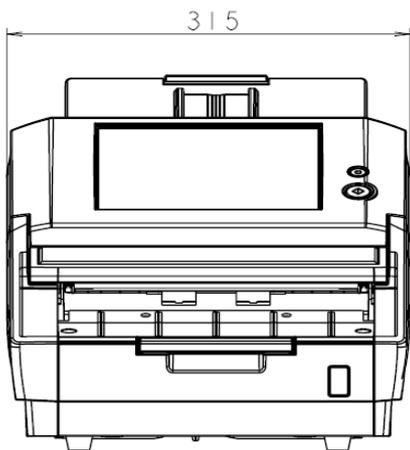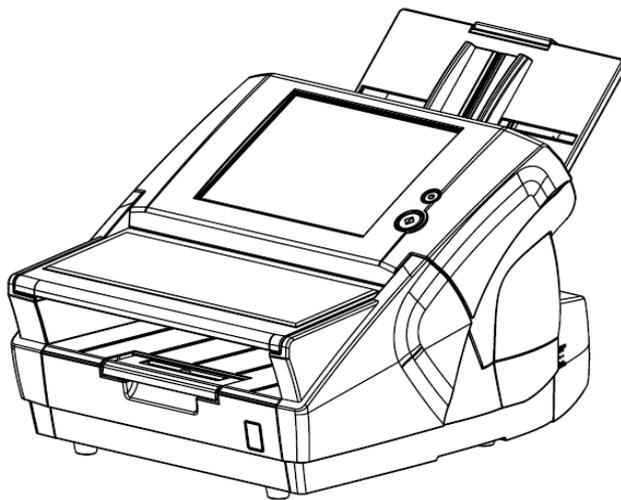| 09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	fi-6000NS, fi-6010N Network Scanner Maintenance Manual		
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1-1-7   Multi feed Detection Condition

One of the following method of multi feed detection is selected by the driver.

- Check overlapping
- Check length
- Check overlapping and length

The following condition is required for each selection:

1) Check overlapping
- Paper weight: 0.065 to 0.15mm
- Punched holes are not allowed within 35 mm (1.4 in) of the vertical centerline of the document.
- Other paper shall not be glued within 35 mm (1.4 in) of the vertical centerline of the document.

2) Check length
- Document length deviation: 1 % or less
- Punched holes are not allowed within 35 mm (1.4 in) of the vertical centerline of the document.

3) Check overlapping and length
- Paper weight: 0.065 to 0.15mm
- Document length deviation: 1 % or less
- Punched holes are not allowed within 35 mm (1.4 in) of the vertical centerline of the document.
- Other paper shall not be glued within 35 mm (1.4 in) of the vertical centerline of the document.

Multifeed detection by layer will often mis-detect very thick paper or plastic documents. When scanning such documents, select "None" on the "Multifeed Setup" screen.
Multifeed may not be detected for the top and bottom 25mm of a document.

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NewFEIMAS (vertical left margin)

1-2 Scanner Section Configuration

1-2-1 ADF Unit

1) Paper separation

When scanning with the ADF, documents loaded on the ADF paper chute (Chute Unit) are separated respectively by the pick roller and Pad ASSY and fed into the ADF. Separated documents are transported by the feed rollers at the speed that corresponds to specified reading resolution until they are ejected to the stacker.

Paper feeding unit includes Hopper empty sensor (Sensor EM), TOP sensor, Multi feed sensor (US Sensor) and Cover Open Sensor.
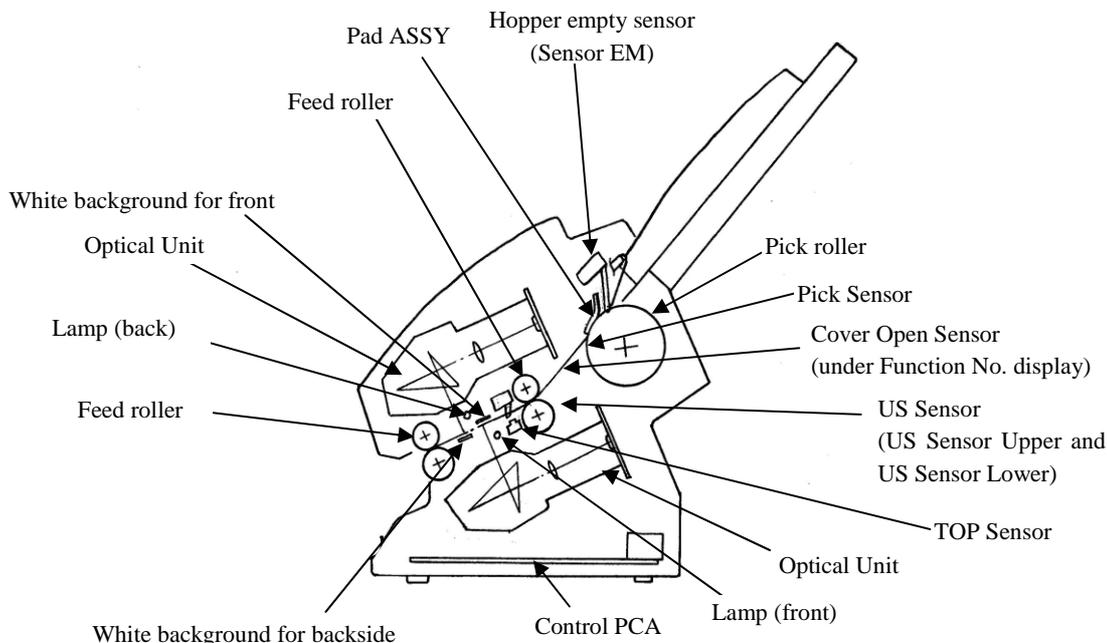
2) Consumables

The pick roller and Pad ASSY are consumables and need to be replaced by a user. (Refer to Section 7-6 for detail)

The scanner supports two consumable counters, pad counter and pick counter, which indicate the number of sheets that have been scanned so far. Users can check the counters from the driver screen or scanner built-in Maintenance mode, and reset the counter after replacing the consumables. (See Section 7-6-5 for details.)

Pad ASSY   Pick roller
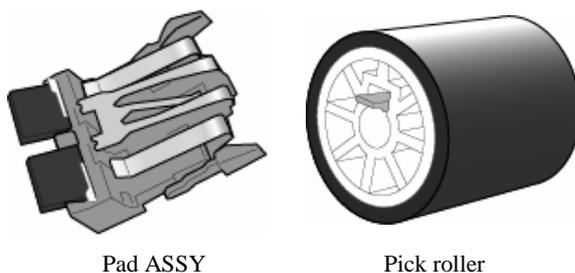
3) Drive unit

The pick roller and feed rollers are turned by the ADF Motor. The Pick roller rotation can be stopped by the electromagnetic Clutch during the feed rollers rotation. This can widen the gap between documents and extend the amount of overscan while overscanning.

The motor drive circuit and motor fuse are located in the Control PCA. If abnormal electric current runs through the motor drive circuit, the current is cut off by the motor fuse in the Control PCA.

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1-2-2 Reading Station

1) Optical system

Documents are set in the ADF paper chute (Chute Unit) facing front side down. The front side of a document is read by the Optical Unit inside the Base Unit, and the backside of a document is read by the Optical Unit inside the Upper Unit. These two Optical Units have the same parts number.

An image on a document is projected to a color CCD through lens and mirror system and converted to signals with 10 bit per pixel at 600 dpi resolution.

2) Light source

The scanner uses two Lamps (Incandescent fluorescent lamp) which lights the scanning area of front and back side where the Optical Unit reads in order to get sufficient CCD output. The Lamp is turned ON or OFF by Lamp Inverter that is controlled by the Control PCA.

The life of Lamp is about 10000 hours, which means Lamp lasts during the life of device. So the Lamp is not a consumable.

3) Scan controller

Before scanning a document, the scanner reads white background of the reading position and adjusts the gain of CCD amplifier. If the CCD output does not reach a certain level after the gain adjustment, Optical alarm is issued.
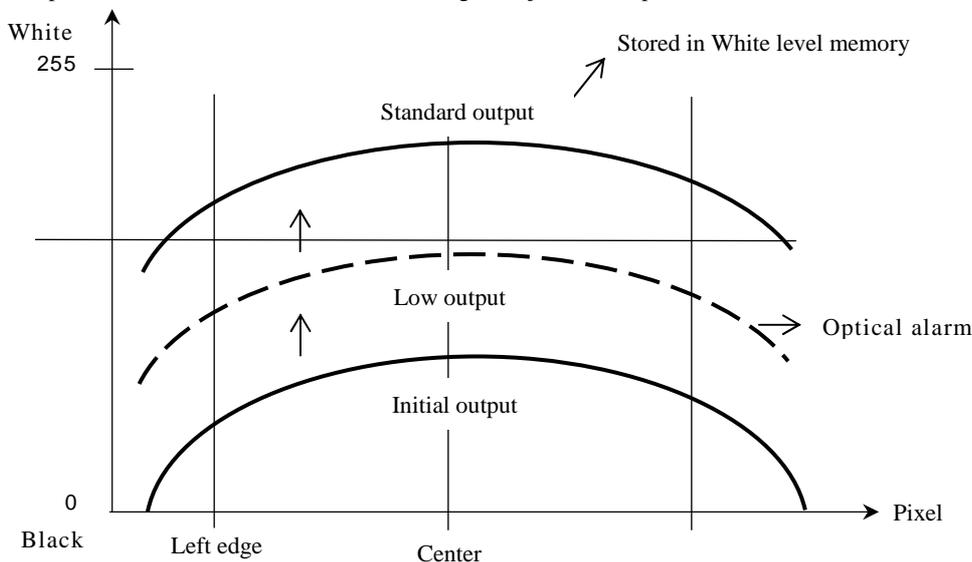
Figure 1-2-2　AGC (Automatic Gain Adjustment)

When the gain adjustment finishes successfully, the scanner feeds the document to the reading position at the speed that corresponds to specified reading resolution. Then the leading edge of the document is detected by the TOP sensor in front of the reading position. After the document is fed from TOP sensor by some defined length for front and back side scanning (the length which determines sub-scanning offset), the scanner starts reading image. The scanner terminates scan operation when the length specified from the host is scanned (Fixed size scanning) or when the TOP sensor detects the trailing edge of a document (Page end detection scanning).

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1-2-3 Controller Station

1) Control PCA

Control PCA controls the units shown in the figure below. It includes the following connectors and a switch.

- SCSI connector (Not in use)
- USB connector
- DC voltage input connector
- SCSI ID setting rotary switch (Not in use)
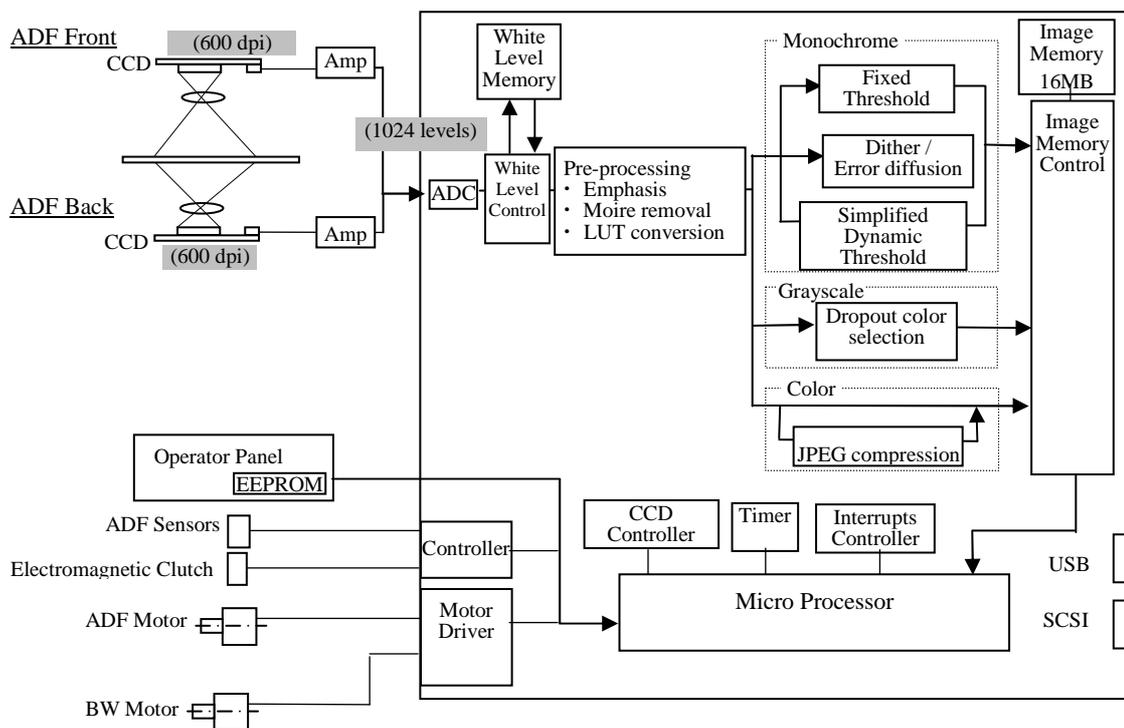
Figure 1-2-3　Function Block Diagram

2) Panel PCA

The Panel PCA in operator panel includes not only the switch and operator panel described in Section 1-1-4, but also EEPROM that records the information below. When replacing the Panel PCA with new one, you need to move all data stored in the EEPROM to the Control PCA, and then return the data from the Control PCA to the new Panel PCA.

- Magnification correction value for main/sub scanning direction
- Offset correction value for main/sub scanning direction
- White level correction value
- Values of Pad counter and Pick counter
- First date of the scanner operation, ADF scanned number of documents

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NewFEIMAS

1-2-4   Electric Component Block Diagram
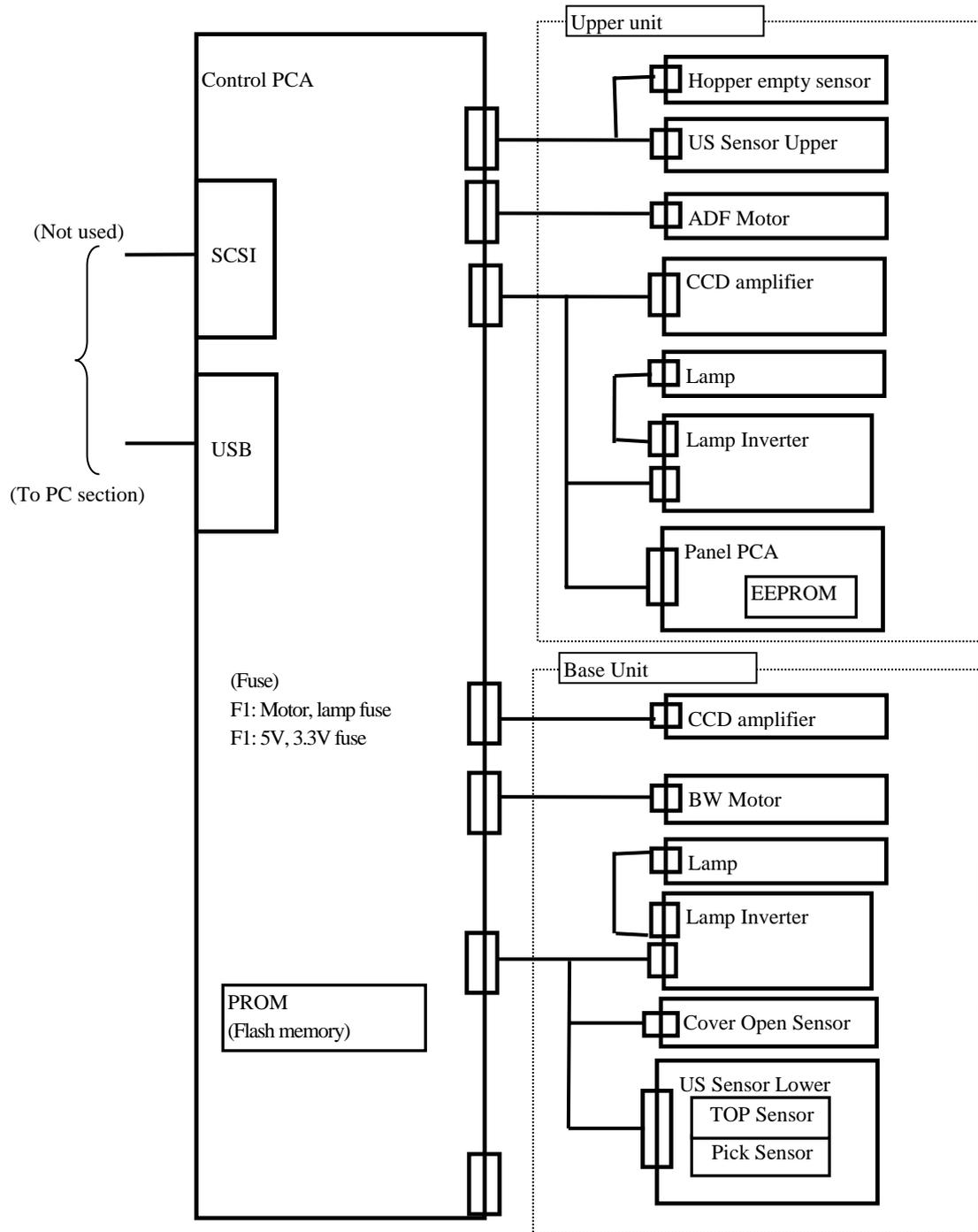
Figure 1-2-4   Block Diagram at Scanner Section

1-3 PC Section

1-3-1 System Block Diagram

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1-3-2   Electrical System Diagram

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1-3-3　Cable Connection Diagram

LCD UNIT fi-6000NS: PA03544-C911, -C913 09
fi-6010N: PA03544-C912

TSC PCA
PA03544-K907

Touch panel

LCD
PA03544-D921

INVERTER
PA03544-K905

KB
PA03544-K911

SIRIAL-CABLE
PA70002-4392

LCD-CABLE
PA70002-4500

HDD UNIT
fi-6000NS:
PA03544-D911
PA03544-D975
PA03544-D919
fi-6010N:
PA03544-D991
PA03544-D992
PA03544-D995
PA03544-D997

Main Board (MB UNIT)
fi-6000NS: PA03544-D901
fi-6010N: PA03544-D902

FAN UNIT
PA03544-K909

SATA CABLE
PA70002-3520

USB-CABLE
PA61001-0165

Scanner

fi-5120C

DC-CABLE
PA70002-4512

PA03544-K903

DC-IN

AC adapter
PA03544-K908

AC Cordset U
PA63082-1831

AC Cordset E
PA63083-1831

AC Cordset UK
PA63098-1831

AC Cordset C (fi-6010N only)
PA63084-1831

IODC-CABLE
PA70002-4390

DC-CABLE
PA70002-4393

DC-DC MODULE
PA03544-K901

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NewFEIMAS

Chapter 2   Installation

2-1   Unpacking the scanner

Follow the procedure below to unpack the scanner package. Make sure that all the accessories are included in the package.

1.   Remove the tape to open the package box.
2.   Take out the CD tray and other accessories.
3.   Take out the scanner and cushions. And remove the cushioning materials.
4.   Open the polyethylene bag to take out the scanner.
5.   Take out all the accessories and remove the tape protecting the scanner.

The following table lists the packaging configuration.

Table 2.1 Packaging configuration

No.	Items	Quantity
1	Outer case	1
2	Upper pad	1
3	Lower pad	1
4	Accessory case	1
5	Back cover	1
6	ADF paper chute (CHUTE UNIT)	1
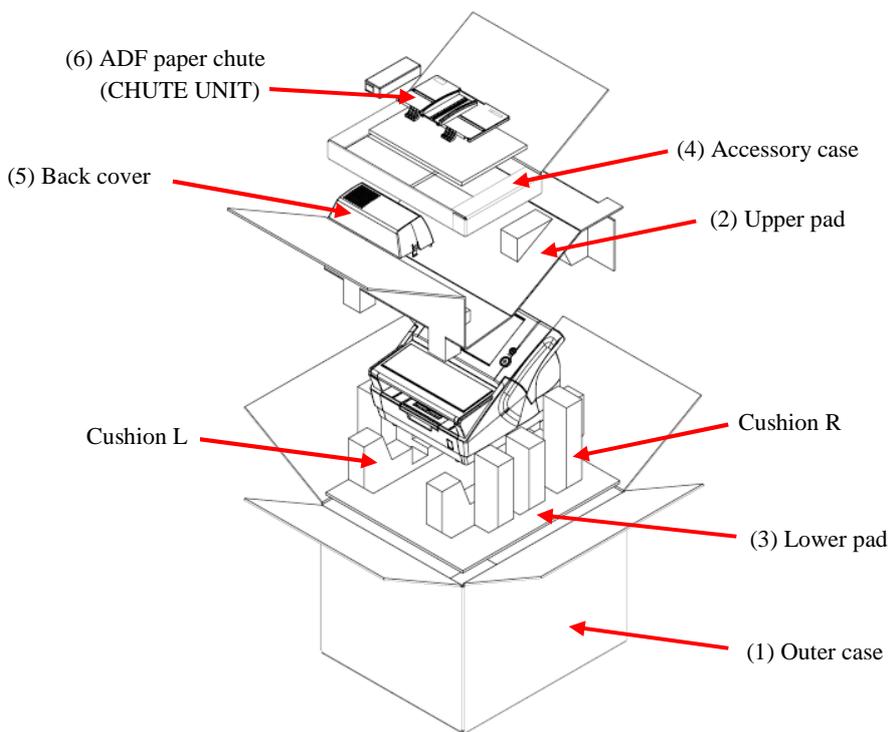
Figure 2-1 Package

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2-2 Installing the scanner

2-2-1 For safety installation

Before installing the scanner, read the following cautions carefully to avoid scanner trouble.
Refer to Section 1-1-3 "Environmental Specifications" for information of power source and scanner dimensions.

- ■ Install the scanner away from strong magnetic fields and other sources of noise.
- ■ Do not install the scanner near heating apparatus or in the direct sunlight.
- ■ Install the scanner in a location which is level and subject to minimal vibration.
- ■ Do not install the scanner in locations subject to humidity and dust.
- ■ Do not block the ventilation ports.
- ■ Protect the scanner from static electricity.
- ■ Use proper AC voltage.
- ■ Make sure the rubber pads on the bottom of the scanner grounds evenly.

2-2-2 Installation

⚠ **CAUTION**　When lifting the scanner, always hold it by the indentations on the bottom of each side to ensure a stable grip.
Holding the scanner in any other way may cause it to be dropped or damaged.

Hold the scanner by these side indentations when lifting.
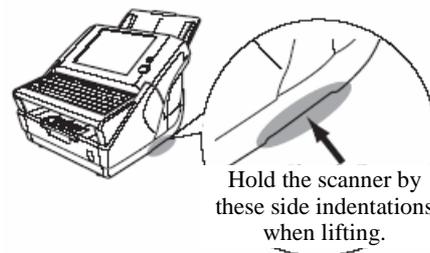
Install the scanner in the following procedure.
1. Place the scanner at its installation site.

2. Attach the ADF paper chute (CHUTE UNIT).
　　Hold the ADF paper chute and insert its tabs into the corresponding slots in the scanner. The Side guides of the ADF paper chute should face up.

Tab
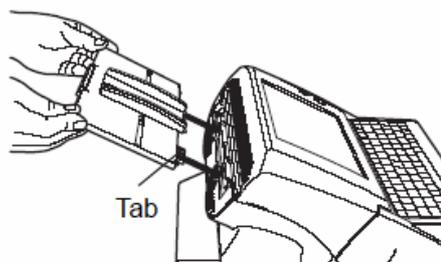
3. Connect the AC cable to the AC adapter (hereinafter called "Power cable").
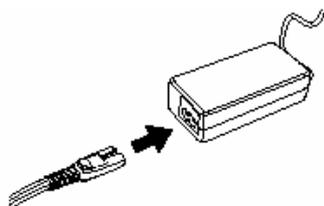
Note: Use only the AC adapter provided by the manufacturer.

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4. Connect the AC adapter connector to the scanner's DC inlet (11 in Section 1-1-4).
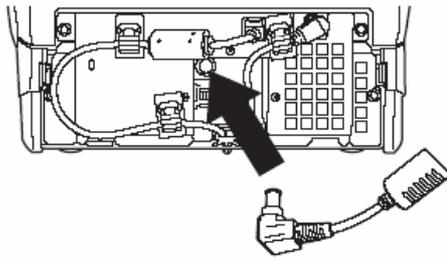
5. Connect the LAN cable to the LAN connector (12 in Section 1-1-4).
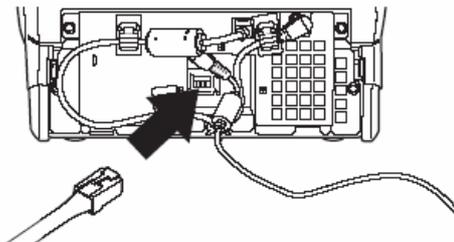
6. Attach the back cover with the connected AC cable or LAN cable protruding out of the lower part of the cover.
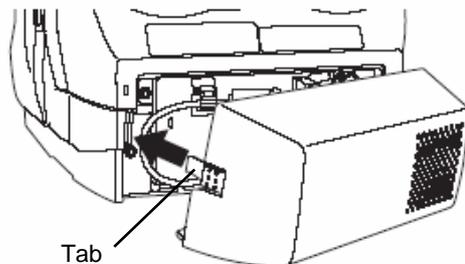
To make sure the cover is properly attached, insert the right and left of tabs at the same time.

Tab

7. Connect the other end of the LAN cable to the network hub.

8. Insert the AC cable into a power outlet.
   ➔The power is connected but the scanner is not yet ready for operation.

9. Press the Startup button.

Startup button
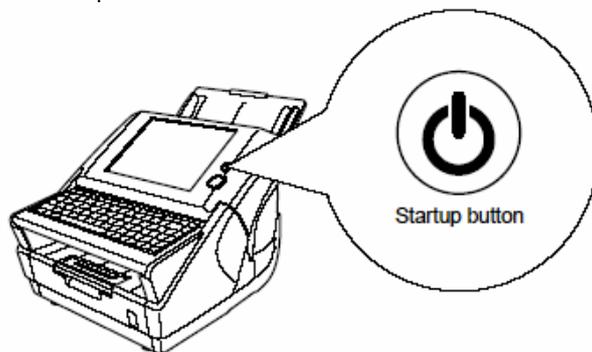
➔After system startup, the "Login" screen appears.
Note: After turning the power off, wait for at least ten seconds before turning the power back on again.
   If touch panel responses seem out of alignment with the positions of objects on the LCD screen, calibrate the screen. For details, refer to "Calibrating the Touch Panel" (Section 6-3-6).

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Note (fi-6010N only):

Language/Keyboard Selection screen appears before the login screen is displayed. Factory setting is English (US Keyboard). Select your language and restart the device by following the message on the screen.

The login screen is displayed after restart.
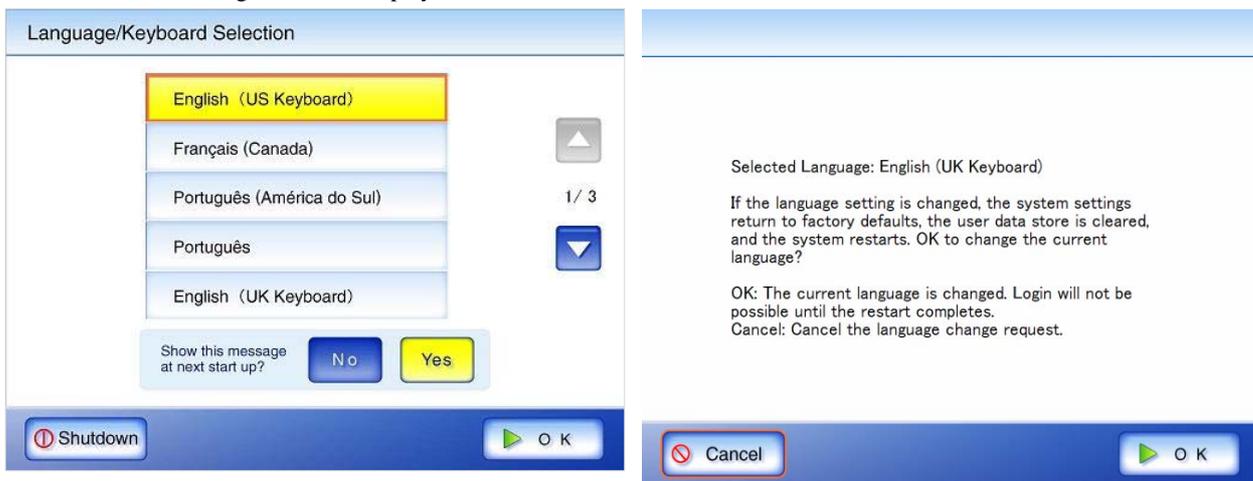
10. Enter the user name and the password of the Device administrator mode, and then press the [Login] button.

User name (default): admin

Password (default): password

(User name and password are common to fi-6000NS/fi-6010N.)

The network setting items are as follows.

Item	Setting item	fi-6000NS	fi-6010N (iScanner)
System setting operation	Administrator password	Set/Change password	
	Scanner name	Set scanner name	- Set scanner name - **Set work group or domain name**
	Timezone	Select timezone	
Network setting	IP address	- Select DHCP - Set IP address, subnet mask, default gateway	
	DNS/WIN server	- Set DNS server - Set WINS server	- Set DNS server - **Dynamic update of DNS, Set NDS suffix** - Set WINS server
	Network connection setting		- **Select SSL communication, Set port number**
	Ping	Specify IP address, host name and FCDN (Fully Qualified Domain Name) of the server of which connection status is checked	

11. Restart the system by pressing the [Logout] button, and then the [Restart] button.

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WWW.SERVICE-MANUAL.NET

2-2-3 Installing the Admin Tool

1) Install Network Admin Tool.

Operation environment to install Network Admin Tool is as follows:

<Software (English versions)>
- Windows® XP SP2 or later (includes installation of Microsoft® .NET Framework 2.0(*1)), or Windows Vista™

> *1: When installing the network admin tool, confirm that .NET Framework 2.0 is installed. If not already installed, a message will appear telling you to install .NET Framework 2.0 from the Microsoft Web site. When installing .NET Framework, at least 280MB of additional free disk space is required.

- Microsoft® Internet Explorer 6 SP2 or later (*2)

> *2: Confirm that the latest security patch has been applied. If the latest patch has not been applied, downloading operations (such as manual download) may not be possible. For Windows® XP, "KB933566" must be applied to Microsoft® Internet Explorer.

<Hardware>
- 32 MB of free memory space
- 64 MB of free disk space
- Any client PC which runs the supported software
- XGA monitor or better
- LAN cable

2) Specify the scanner name as a URL in the web browser's location bar.

Setting items differ depending on the model, fi-6000NS or fi-6010N. Refer to the following guidance.

For example, when the scanner name is "SCAN001," use "http://SCAN001/."
For URL's, and IP address can be set instead of a scanner name. If the IP address is xxx.xxx.xxx.xxx, specified URL is: http:xxx.xxx.xxx.xxx/.
➔ The "Login" screen appears.

3) Log in with the Administrator mode.

Model name	Login mode	User name	Password
fi-6000NS	Administrator mode	Admin (initial value)	Password (initial value)
fi-6010N	Administrator mode	Admin (initial value)	Password (initial value)

* fi-6000NS and fi-6010N display different screen.
(Left: fi-6000NS, Right: fi-6010N)

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4) Press the [Download] button, and follow the instruction on the screen.
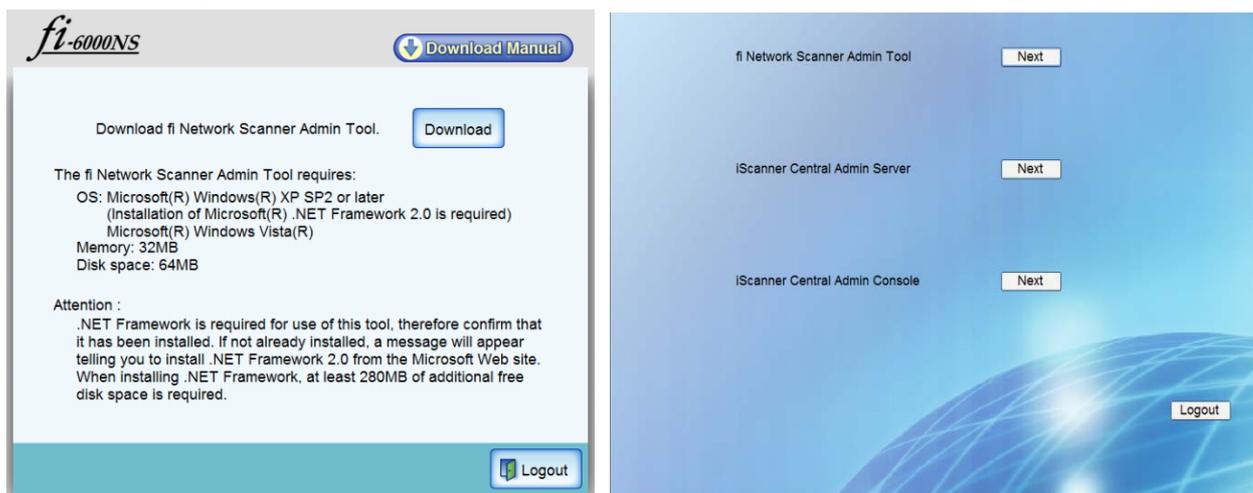
The Admin Tool should now be usable.

Click the [Start] button, select the [Programs]- [fi-scanner] - [fi Network Scanner Admin Tool].

5) Start up the Admin Tool, and then specify the "Connect to (of the scanner)."
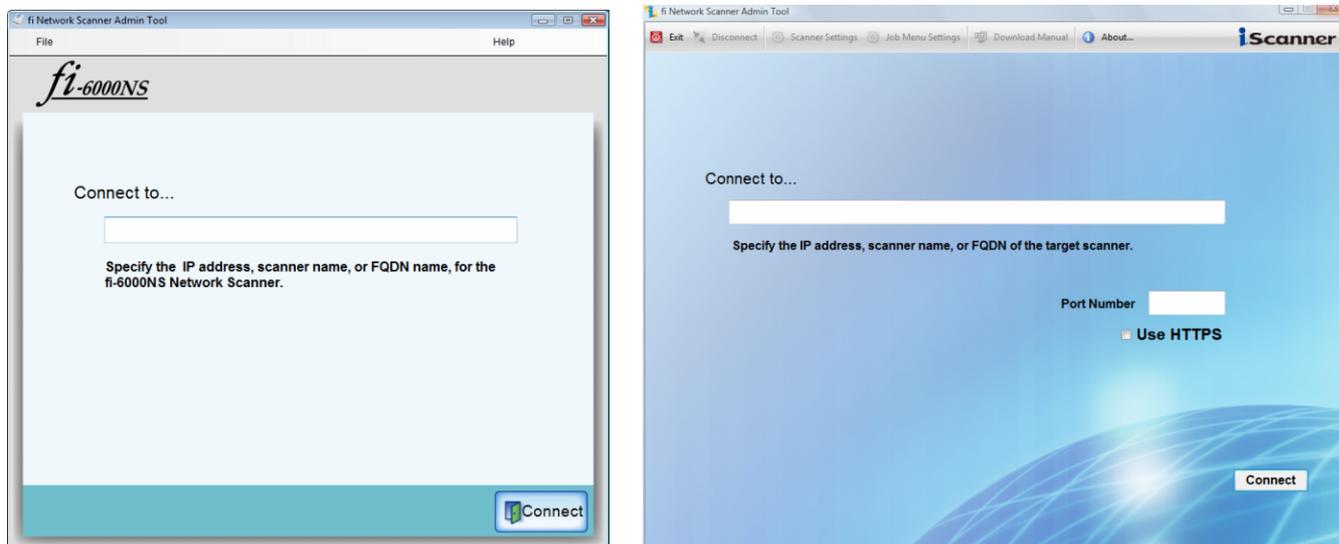
Note (fi-6010N only):

URL to be specified for Admin Toll installation differs depending on whether SSL communication is valid or invalid, or port number, that are configured on the network setting.

Check the setting, and access the "Login" screen by referring to the table below.

Network setting item	URL to be specified
SSL communication [invalid] Port number not changed [80]	http://scanner name or IP address
SSL communication [invalid] Port number changed [***]	http://scanner name or IP address & changed port number
SSL communication [valid] Port number not changed [80]	http://scanner name or IP address
SSL communication [valid] Port number changed [***]	http://scanner name or IP address & changed port number

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6) Log on from the Admin Tool.

  Enter the "Connect to." When the connection is complete, the screen below appears.
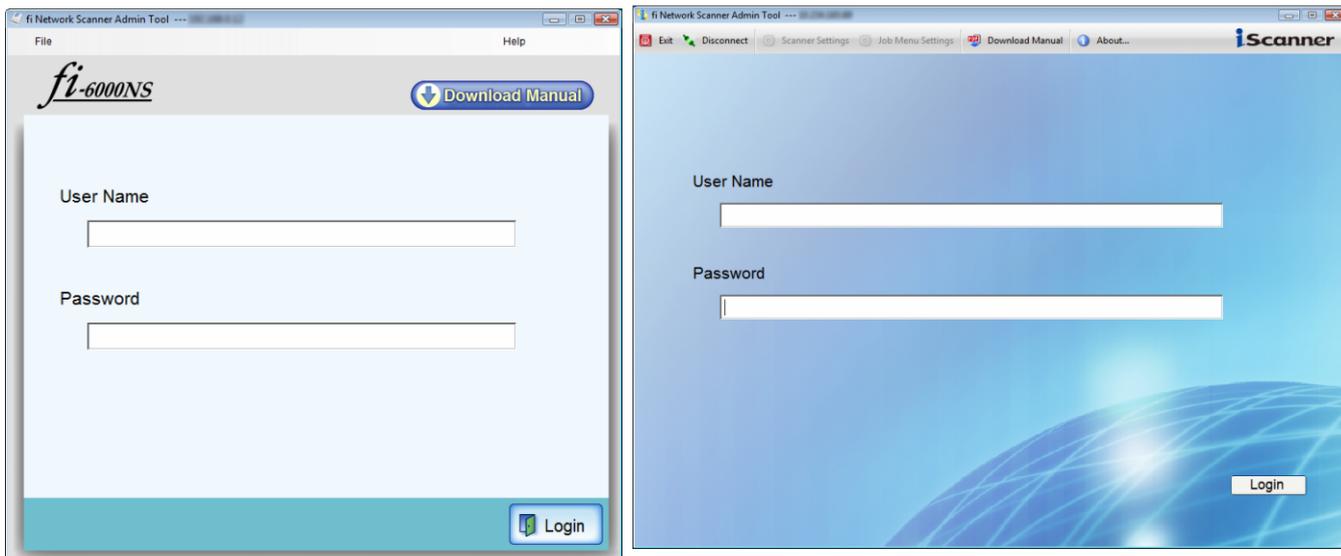
7) Perform the scan test (Section 6-4).

8) Download the manual.

  Operator's guide is not attached to the device.

  The manuals are installed in the device. Press the [Download Manual] button to download the files.

  The downloaded files are in PDF format. Adobe® Reader® is required to browse the manuals.

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Chapter 3   Maintenance parts

\<Scanner section maintenance parts list\>

POS	Description	Part Number		Quantity	Appearance	Replacement procedure	Remarks
		fi-6000NS	fi-6010N				
1	BASE UNIT	PA03484-D901	←	1	3-1	5-9	*1,3,4,5,6
2	LAMP INVERTER	PA03484-K907	←	2	3-2	5-11-2	*6
3	LAMP	PA03484-K906	←	2	3-3	5-11-4	*1,6
4	US SENSOR LOWER	PA03484-K904	←	1	3-4	5-11-3	*3
5	GUIDE A ASSY	PA03484-E901	←	1	3-5	5-11-1	
6	DUST COVER ASSY	PA03484-E906	←	1	3-6	5-11-5	*3
7	OPTICAL UNIT	PA03484-E903	←	2	3-7	5-11-6	*1,6
8	BW MOTOR	PA03484-F905	←	1	3-8	5-11-7	*3
9	CLUTCH	PA03484-F906	←	1	3-9	5-11-8	*3
10	GUIDE P ASSY	PA03484-E902	←	1	3-10	5-9	
11	UPPER UNIT	PA03484-D982	←	1	3-11	5-9	*1,3
12	UPPER ASSY	PA03484-E907	←	1	3-12	5-10-8	*3
13	ADF MOTOR	PA03484-F902	←	1	3-13	5-10-3	*3
14	US SENSOR UPPER	PA03484-K905	←	1	3-14	5-10-6	*3
15	SENSOR EM	PA03334-F914	←	1	3-15	5-10-7	*3
16	PANEL PCA	PA03334-K907	←	1	3-16	5-10-1	*2
17	CONTROL PCA	PA03484-K911	←	1	3-17	5-12	
18	CHUTE UNIT	PA03484-E905	←	1	3-18	5-7	*3
19	(Reserved)						

*1: White reference sheet (for adjustment) is enclosed.

*2: EEPROM data must be saved before replacement and must be restored after replacement (Section 6-1-8).

*3: Paper feeding/Sensor/Background switchover test (Section 6-1-2) must be performed after replacement.

*4: Main scanning/Sub-scanning magnification (Section 6-1-3) adjustment must be performed after replacement.

*5: Offset adjustment (Section 6-1-4) must be performed after adjustment.

*6: White level adjustment (Section 6-1-5) must be performed after adjustment.

<PC section maintenance parts list>

POS	Description	Part Number		Q'ty	Appearance	Replacement procedure	Remarks
		fi-6000NS	fi-6010N				
20	PC BOX UNIT	PA03544-C901 *1	PA03544-C991 *6	1	3-20	5-26	*4,5
		PA03544-C975 03 *2	PA03544-C992 *7				*4,5
		PA03544-C909 05 *3	PA03544-C995 *8				*4,5
			PA03544-C997 *9				
21	DC-DC MODULE	PA03544-K901	←	1	3-21	5-24	*4
22	MB UNIT	PA03544-D901	PA03544-D902	1	3-22	5-25	*4
23	MEMORY	PA03544-K902	←	1	3-23	5-23	*4
24	HDD UNIT	PA03544-D911 *1	PA03544-D991 *6	1	3-24	5-22	*4,5
		PA03544-D975 03 *2	PA03544-D992 *7				*4,5
		PA03544-D919 05 *3	PA03544-D995 *8				*4,5
			PA03544-D997 *9				
25	DCIN PCA	PA03544-K903	←	1	3-25	5-21	*4
26	FAN UNIT	PA03544-K909	←	1	3-26	5-20	*4
27	KB UNIT	PA03544-C921 *1,2	PA03544-C929 *10	1	3-27	5-18	*4
		PA03544-C929 05 *3	PA03544-C927 *9				*4
28	KB	PA03544-K911 *1,2	PA03544-C919 *10	1	3-28	5-19	*4
		PA03544-K919 05 *3	PA03544-C917 *9				*4
29	LCD UNIT	PA03544-C911 *1, 3	PA03544-C912	1	3-29	5-14	*4,5
		PA03544-C913 09 *2					
30	(Reference) LCD	PA03544-D921	←	1	3-30	5-15	Not a Maintenance part
31	INVERTER	PA03544-K905	←	1	3-31	5-17	*4
32	TSC PCA	PA03544-K907	←	1	3-32	5-16	*4
33	AC ADAPTER	PA03544-K908	←	1	3-33	-	
34	AC CORDSET U	PA63082-1831	←	1	3-34		For North America
35	AC CORDSET E	PA63083-1831					for Europe
36	AC CORDSET UK	PA63098-1831					for UK
37	AC CORDSET C	---	PA63084-1831				for China

*1: For PA03544-B001, PA03544-B002, and PA03544-B005

*2: For PA03544-B075

*3: For PA03544-B011 05

*4: Check the operation by selecting "SCANNER" in Maintenance Program (Section 6-3).

*5: Update the LCD Usage Time by updating RAS log information in the Maintenance Program (Section 6-3-8).

*6: For PA03544-B101

*7: For PA03544-B102

*8: For PA03544-B105

*9: For PA03544-B107

*10: For PA03544-B101, PA03544-B102 and PA03544-B105

09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	fi-6000NS, fi-6010N Network Scanner Maintenance Manual	
08	June 4, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.			
07	Jan.18, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	DRAW No.	P1PA03544-B00X/6	CUST.
Rev.	DATE	DESIGN	CHECK	APPROVED	DESCRIPTION	PFU LIMITED	Page	33 / 206
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3-1 BASE UNIT

Description	Parts No.	Remarks	Figure
BASE UNIT	PA03484-D901		3-1
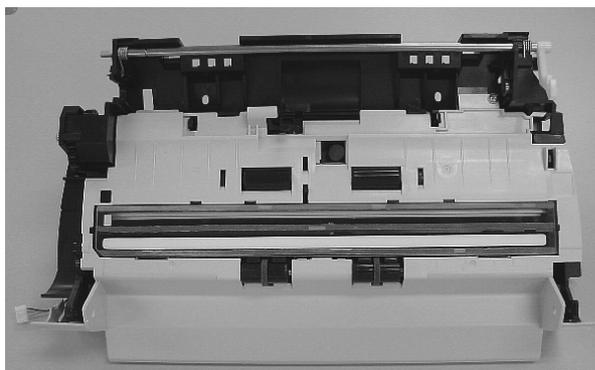
Figure 3-1

⚠ **NOTICE**

This unit includes a Lamp that contains mercury.
Dispose of the scanner should be conducted as required by local ordinances or regulations.

3-2 LAMP INVERTER

Description	Parts No.	Remarks	Figures
LAMP INVERTER	PA03484-K907		3-2

Figure 3-2

09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	fi-6000NS, fi-6010N Network Scanner Maintenance Manual		
08	June 4, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.				
07	Jan.18, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	DRAW No.	P1PA03544-B00X/6		CUST.
Rev.	DATE	DESIGN	CHECK	APPROVED	DESCRIPTION	PFU LIMITED		Page	34 / 206
Design	Mar.6, 2007	K.Okada	CHECK	K.Okada		APPR.	T.Anzai		

3-3 LAMP

Description	Parts No.	Remarks	Figures
LAMP	PA03484-K906		3-3
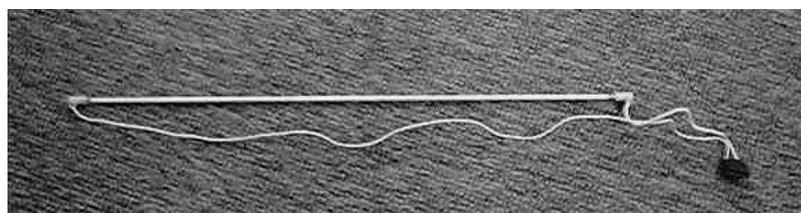
Figure 3-3

⚡ NOTICE

Lamp includes mercury.
Dispose of the scanner should be conducted as required by local ordinances or regulations.

3-4 US SENSOR LOWER

Description	Parts No.	Remarks	Figures
US SENSOR LOWER	PA03484-K904		3-4
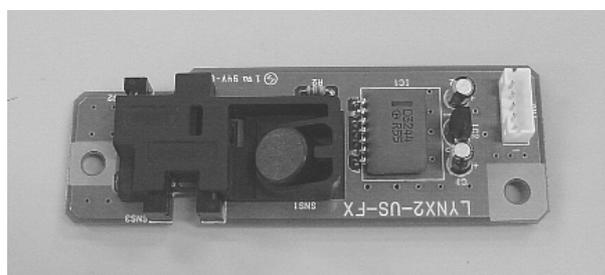
Figure 3-4

09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	fi-6000NS, fi-6010N Network Scanner
08	June 4, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.		**Maintenance Manual**
07	Jan.18, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	DRAW No.	**P1PA03544-B00X/6**	CUST.
Rev.	DATE	DESIGN	CHECK	APPROVED	DESCRIPTION			
Design	Mar.6, 2007	K.Okada	CHECK	K.Okada	APPR.	T.Anzai	**PFU LIMITED**	Page	35 / 206

3-5   GUIDE A ASSY

Description	Parts No.	Remarks	Figure
GUIDE A ASSY	PA03484-E901		3-5
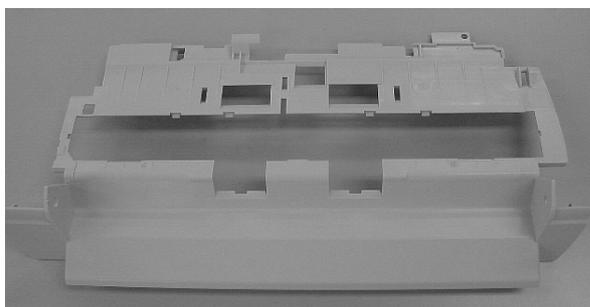
Figure 3-5

3-6   DUST COVER ASSY

Description	Parts No.	Remarks	Figures
DUST COVER ASSY	PA03484-E906		3-6

Figure 3-6

09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	fi-6000NS, fi-6010N Network Scanner Maintenance Manual		
08	June 4, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.				
07	Jan.18, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	DRAW No.	P1PA03544-B00X/6		CUST.
Rev.	DATE	DESIGN	CHECK	APPROVED	DESCRIPTION	PFU LIMITED		Page	36 / 206
Design	Mar.6, 2007	K.Okada	CHECK	K.Okada	APPR.	T.Anzai			

3-7 OPTICAL UNIT

Description	Parts No.	Remarks	Figure
OPTICAL UNIT	PA03484-E903		3-7

Figure 3-7

3-8 BW MOTOR

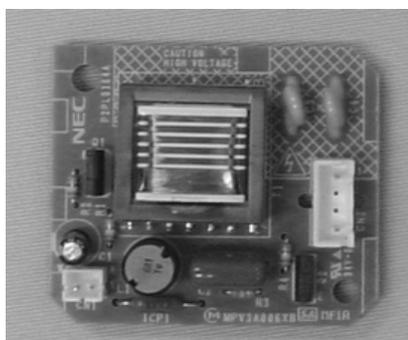| Description	Parts No.	Remarks	Figures
BW MOTOR	PA03484-F905		3-8

Figure 3-8

09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	fi-6000NS, fi-6010N Network Scanner **Maintenance Manual**		
08	June 4, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.				
07	Jan.18, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	DRAW No.	**P1PA03544-B00X/6**		CUST.
Rev.	DATE	DESIGN	CHECK	APPROVED	DESCRIPTION	**PFU LIMITED**		Page	37 / 206
Design	Mar.6, 2007	K.Okada	CHECK	K.Okada		APPR.	T.Anzai		

NewFEIMAS

3-9 CLUTCH

Rev.	Description	Parts No.	Remarks	Figures
	CLUTCH	PA03484-F906		3-9
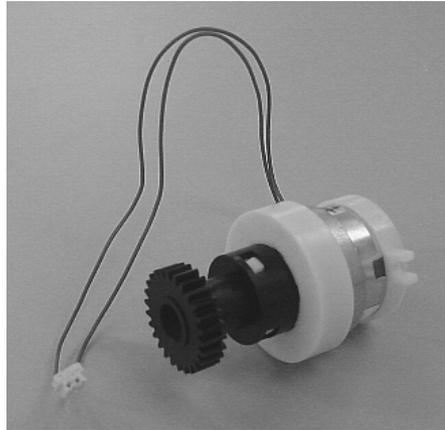
Figure 3-9

3-10 GUIDE P ASSY

Description	Parts No.	Remarks	Figure
GUIDE P ASSY	PA03484-E902		3-10

Figure 3-10

09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	fi-6000NS, fi-6010N Network Scanner	
08	June 4, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.		**Maintenance Manual**	
07	Jan.18, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	DRAW No.	**P1PA03544-B00X/6**	CUST.
Rev.	DATE	DESIGN	CHECK	APPROVED	DESCRIPTION	**PFU LIMITED**	Page	38 / 206
Design	Mar.6, 2007	K.Okada	CHECK	K.Okada	APPR.	T.Anzai		

3-11   UPPER UNIT

| Description	Parts No.	Remarks		Figure
UPPER UNIT	~~PA03484-D902~~ PA03484-D982 03	Panel PCA is not included. 04		3-11

Figure 3-11

✎ NOTICE

This unit includes a Lamp that contains mercury.
Dispose of the scanner should be conducted as required by local ordinances or regulations.

3-12   UPPER ASSY

Description	Parts No.	Remarks	Figures
UPPER ASSY	PA03484-E907		3-12

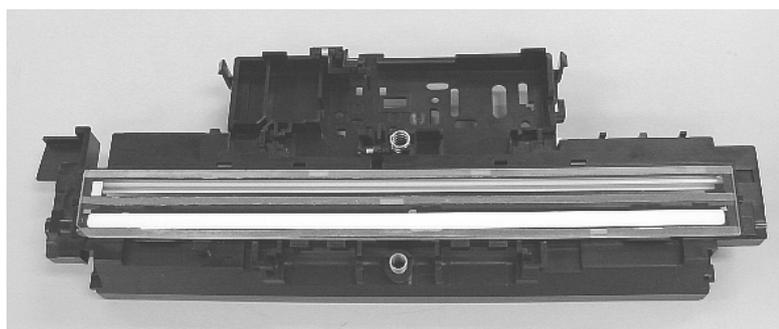Note that black mylar sheet is not included in Upper ASSY.
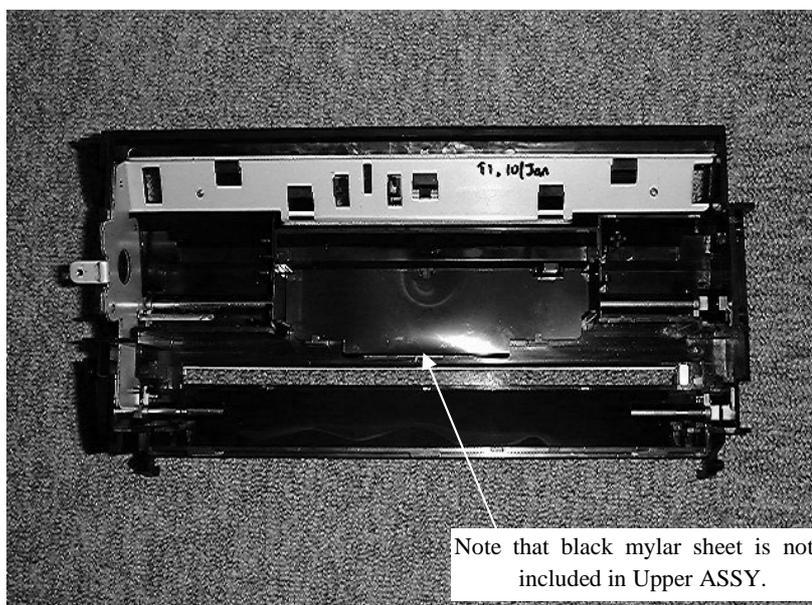
Figure 3-12

09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	**fi-6000NS, fi-6010N Network Scanner** **Maintenance Manual**		
08	June 4, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.				
07	Jan.18, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	DRAW No.	**P1PA03544-B00X/6**		CUST.
Rev.	DATE	DESIGN	CHECK	APPROVED	DESCRIPTION	**PFU LIMITED**		Page	39 / 206
Design	Mar.6, 2007	K.Okada	CHECK	K.Okada	APPR.	T.Anzai			

3-13 ADF MOTOR

Description	Parts No.	Remarks	Figures
ADF MOTOR	PA03484-F902		3-13

Figure 3-13

3-14 US SENSOR UPPER

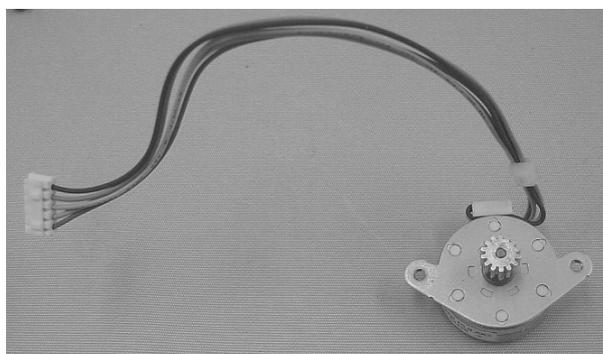| Description	Parts No.	Remarks	Figures
US SENSOR UPPER	PA03484-K905		3-14
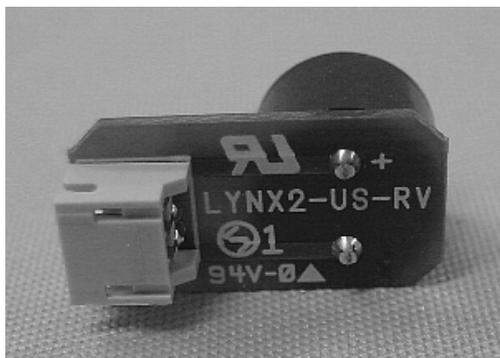
Figure 3-14

09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	**fi-6000NS, fi-6010N Network Scanner**		
08	June 4, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.		**Maintenance Manual**		
07	Jan.18, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	DRAW No.	**P1PA03544-B00X/6**		CUST.
Rev.	DATE	DESIGN	CHECK	APPROVED	DESCRIPTION	**PFU LIMITED**		Page	40 / 206
Design	Mar.6, 2007	K.Okada	CHECK	K.Okada	APPR.	T.Anzai			

3-15 SENSOR EM

Description	Parts No.	Remarks	Figures
SENSOR EM	PA03334-F914		3-15
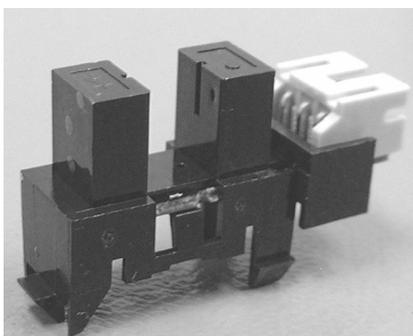
Figure 3-15

3-16 PANEL PCA

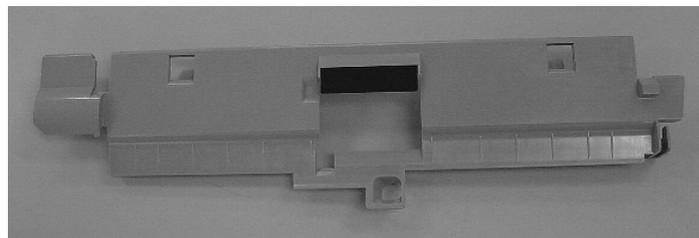| Description	Parts No.	Remarks	Figures
PANEL PCA	PA03484-K907		3-16
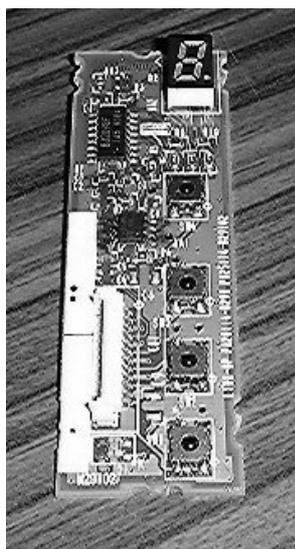
Figure 3-16

09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	**fi-6000NS, fi-6010N Network Scanner**	
08	June 4, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.		**Maintenance Manual**	
07	Jan.18, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	DRAW No.	**P1PA03544-B00X/6**	CUST.
Rev.	DATE	DESIGN	CHECK	APPROVED	DESCRIPTION	**PFU LIMITED**	Page	41 / 206
Design	Mar.6, 2007	K.Okada	CHECK	K.Okada	APPR. T.Anzai			

3-17 CONTROL PCA

Description	Parts No.	Remarks	Figures
CONTROL PCA	PA03484-K911		3-17
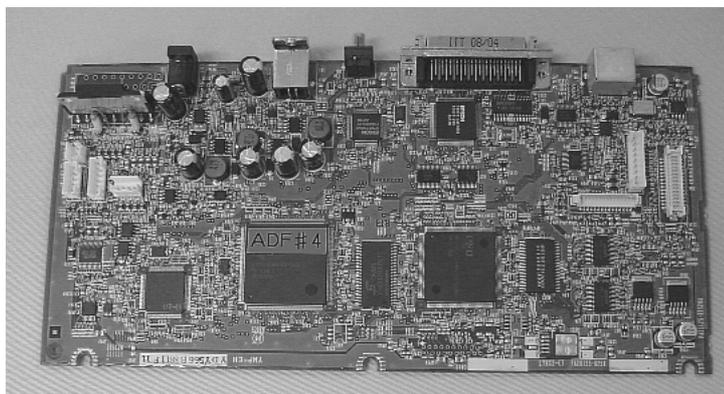
Figure 3-17

3-18 CHUTE UNIT

Description	Parts No.	Remarks	Figures
CHUTE UNIT	PA03484-E905		3-19

Figure 3-19

3-19 (Reserved)

09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	**fi-6000NS, fi-6010N Network Scanner**	
08	June 4, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.		**Maintenance Manual**	
07	Jan.18, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	DRAW No.	**P1PA03544-B00X/6**	CUST.
Rev.	DATE	DESIGN	CHECK	APPROVED	DESCRIPTION	**PFU LIMITED**	Page	42 / 206
Design	Mar.6, 2007	K.Okada	CHECK	K.Okada	APPR.	T.Anzai		

3-20   PC BOX UNIT

[fi-6000NS]

Description		Parts No.	Remarks		Figures
PC BOX UNIT		PA03544-C901	For PA03544-B001, -B002, and -B005	Includes SIDE COVER L and SIDE COVER R.	3-20
	03	PA03544-C975	For PA03544-B075		
	05	PA03544-C909	For PA03544-B011		

[fi-6010N]

Description	Parts No.	Remarks		Figures
PC BOX UNIT	PA03544-C991	For PA03544-B101	Includes SIDE COVER L and SIDE COVER R.	3-20
	PA03544-C992	For PA03544- B102		
	PA03544-C995	For PA03544-B105		
	PA03544-C997	For PA03544-B107		

Note: fi-6010N has the Central Admin function to identify and control the individual scanner by Mac address and scanner name.

When MB UNIT or PC BOX UNIT is replaced, MAC address is changed, which may require modification on the Central Admin server. Contact the system administrator.

* Central Admin server is modified by the system administrator.

Figure 3-20

3-21   DC-DC MODULE

Description	Parts No.	Remarks	Figures
DC-DC MODULE	PA03544-K901		3-21

Figure 3-21

09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	**fi-6000NS, fi-6010N Network Scanner** **Maintenance Manual**		
08	June 4, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.				
07	Jan.18, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	DRAW No.	**P1PA03544-B00X/6**		CUST.
Rev.	DATE	DESIGN	CHECK	APPROVED	DESCRIPTION	**PFU LIMITED**		Page	43 / 206
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## 3-22   MB UNIT

Description	Parts No.	Remarks		Figures
MB UNIT	PA03544-D901	For fi-6000NS	The cables are not included.	3-22
	PA03544-D902	For fi-6010N		

Note: fi-6010N has the Central Admin function to identify and control the individual scanner by Mac address and scanner name.

When MB UNIT or PC BOX UNIT is replaced, MAC address is changed, which may require modification on the Central Admin server. Contact the system administrator.

* Central Admin server is modified by the system administrator.

Front of scanner   Back of scanner
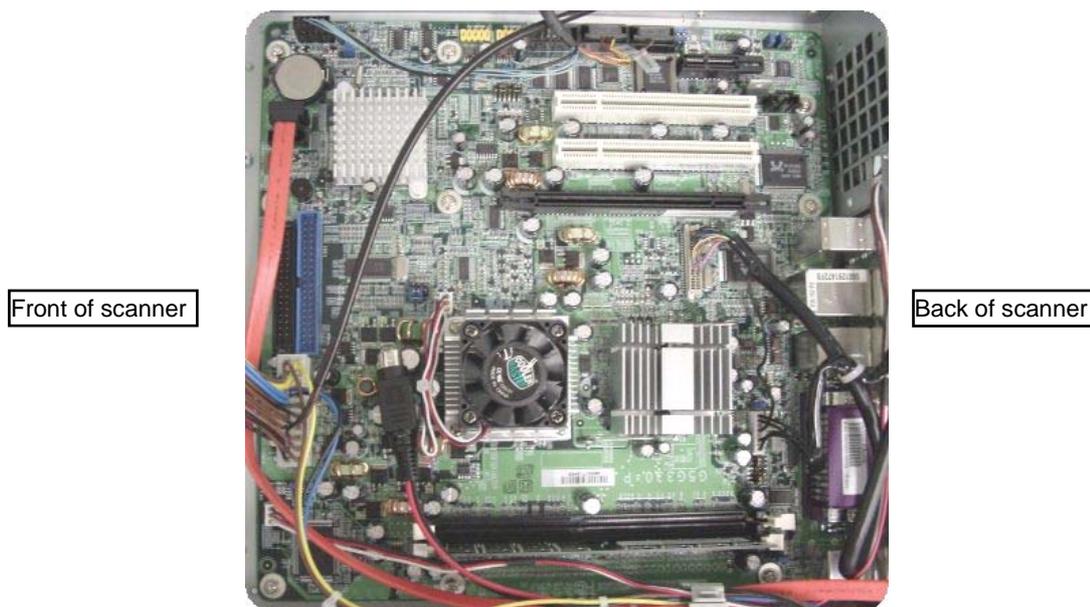
Figure 3-22

3-23   MEMORY

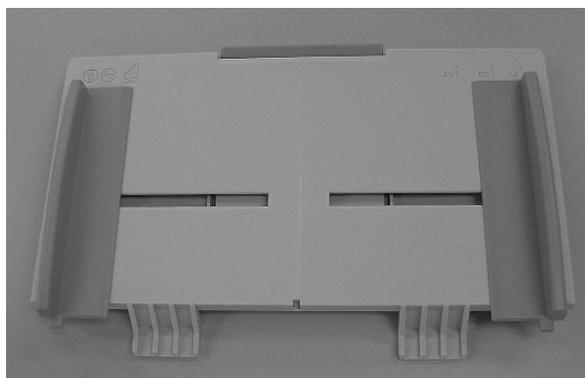| Description	Parts No.	Remarks	Figures
MEMORY	PA03544-K902		3-23

Figure 3-23

09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	fi-6000NS, fi-6010N Network Scanner Maintenance Manual	
08	June 4, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.			
07	Jan.18, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	DRAW No.	P1PA03544-B00X/6	CUST.
Rev.	DATE	DESIGN	CHECK	APPROVED	DESCRIPTION	PFU LIMITED	Page	44/206
Design	Mar.6, 2007	K.Okada	CHECK	K.Okada	APPR. T.Anzai			

3-24 HDD UNIT

[fi-6000NS]

Description		Parts No.	Remarks		Figures
HDD UNIT		PA03544-D911	For PA03544-B001, -B002, and -B005	The METAL and the cables are not included.	3-24
	03	PA03544-D975	For PA03544-B075		
	05	PA03544-D919	For PA03544-B011		

[fi-6010N]

Description	Parts No.	Remarks		Figures
HDD UNIT	PA03544-D991	For PA03544-B101	The METAL and the cables are not included.	3-24
	PA03544-D992	For PA03544- B102		
	PA03544-D995	For PA03544-B105		
	PA03544-D997	For PA03544-B107		

Figure 3-24

3-25 DCIN PCA

Description	Parts No.	Remarks	Figures
DCIN PCA	PA03544-K903		3-25

Figure 3-25

09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	**fi-6000NS, fi-6010N Network Scanner**		
08	June 4, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.		**Maintenance Manual**		
07	Jan.18, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	DRAW No.	**P1PA03544-B00X/6**		CUST.
Rev.	DATE	DESIGN	CHECK	APPROVED	DESCRIPTION	**PFU LIMITED**		Page	45 / 206
Design	Mar.6, 2007	K.Okada	CHECK	K.Okada	APPR.	T.Anzai			

3-26 FAN UNIT

Description	Parts No.	Remarks	Figures
FAN UNIT	PA03544-K909		3-26

Figure 3-26

3-27 KB UNIT

[fi-6000NS]

Description	Parts No.	Remarks		Figures
KB UNIT 05	PA03544-C921	For PA03544-B001, -B002, -B005, -B075	The hinge plate and KB-USB-CABLE are included.	3-27
	PA03544-C929	For PA03544-B011	The hinge plate is included. KB-USB-CABLE is NOT included. 06	

[fi-6010N]

Description	Parts No.	Remarks		Figures
KB UNIT	PA03544-D929	For PA03544-B101, -B102, -B105	The hinge plate and KB-USB-CABLE are included.	3-27
	PA03544-D927	For PA03544-B107		

KB-USB-CABLE
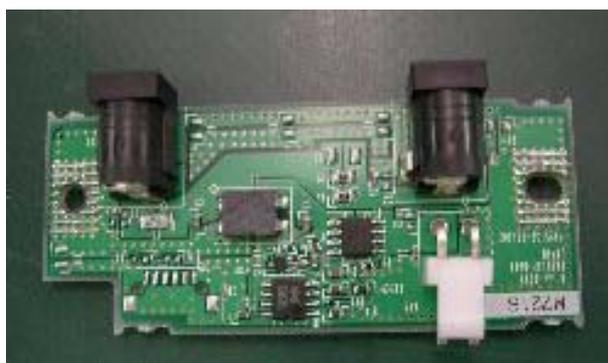(included in PA03544-C921 only) 06

Figure 3-27

09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	fi-6000NS, fi-6010N Network Scanner Maintenance Manual	
08	June 4, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.			
07	Jan.18, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	DRAW No.	P1PA03544-B00X/6	CUST.
Rev.	DATE	DESIGN	CHECK	APPROVED	DESCRIPTION	PFU LIMITED	Page	46/206
Design	Mar.6, 2007	K.Okada	CHECK	K.Okada	APPR. T.Anzai			

3-28 KB

[fi-6000NS]

Description	Parts No.	Remarks		Figures
KB	PA03544-K911	For PA03544-B001, -B002, -B005, -B075	The hinge plate is not included.	3-28
05	PA03544-K919	For PA03544-B011		

[fi-6010N]

Description	Parts No.	Remarks		Figures
KB	PA03544-D919	For PA03544-B101, -B102, -B105	The hinge plate is not included.	3-28
	PA03544-D917	For PA03544-B107		

Figure 3-28

3-29 LCD UNIT

Description	Parts No.	Remarks		Figures
LCD UNIT	PA03544-C911	For fi-6000NS	For PA03544-B001, -B002, -B005, and -B011	3-29
	PA03544-C913 09		For PA03544-B011 *1	
	PA03544-C912	For fi-6010N		

[Rear]

[Front]

'1 PDF log has been added on PA03544-C913. 09

Figure 3-29

NewFEIMAS

3-30 (Reference) LCD

Description	Parts No.	Remarks	Figures
LCD	PA03544-D921	Not a maintenance part.	3-30

Figure 3-30

3-31 INVERTER

Description	Parts No.	Remarks	Figures
INVERTER	PA03544-K905		3-31

Figure 3-31

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3-32 TSC PCA

Description	Parts No.	Remarks	Figures
TSC PCA	PA03544-K907		3-32

Figure 3-32

3-33 AC ADAPTER

Description	Parts No.	Remarks	Figures
AC ADAPTER	PA03544-K908		3-33

Figure 3-33

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3-34   AC CORDSET U / AC CORDSET E / AC CORDSET UK

Description	Parts No.	Remarks	Figures
AC CORDSET U	PA63082-1831	For North America	
AC CORDSET E	PA63083-1831	For Europe	3-34
AC CORDSET UK	PA63098-1831	For UK	
AC CORDSET C	PA63084-1831	For fi-6010N only	
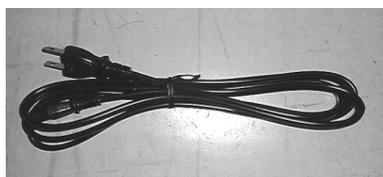
AC CORDSET U
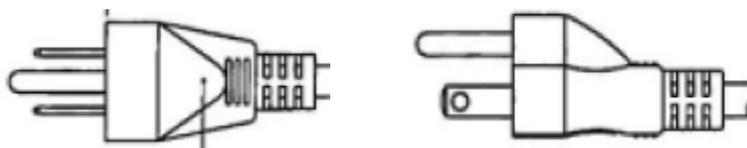
AC CORDSET E
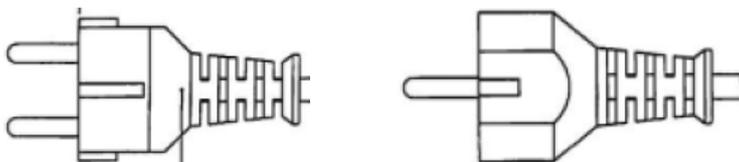
AC CORDSET UK
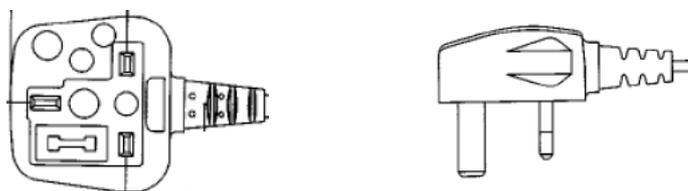
Figure 3-34

06

3-35   KB COVER

Description	Parts No.	Remarks	Figures
KB COVER (IT)	PA03544-K600	Italian	
KB COVER (DE)	PA03544-K601	German	
KB COVER (FR)	PA03544-K602	French	---
KB COVER (ES)	PA03544-K603	Spanish	
KB COVER (GB)	PA03544K-608	English	

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Chapter 4   Troubleshooting

4-1   Flowchart of trouble escalation and maintenance

4-1-1   Flowchart of trouble escalation

The service provider receives the following information of abnormal device operation.
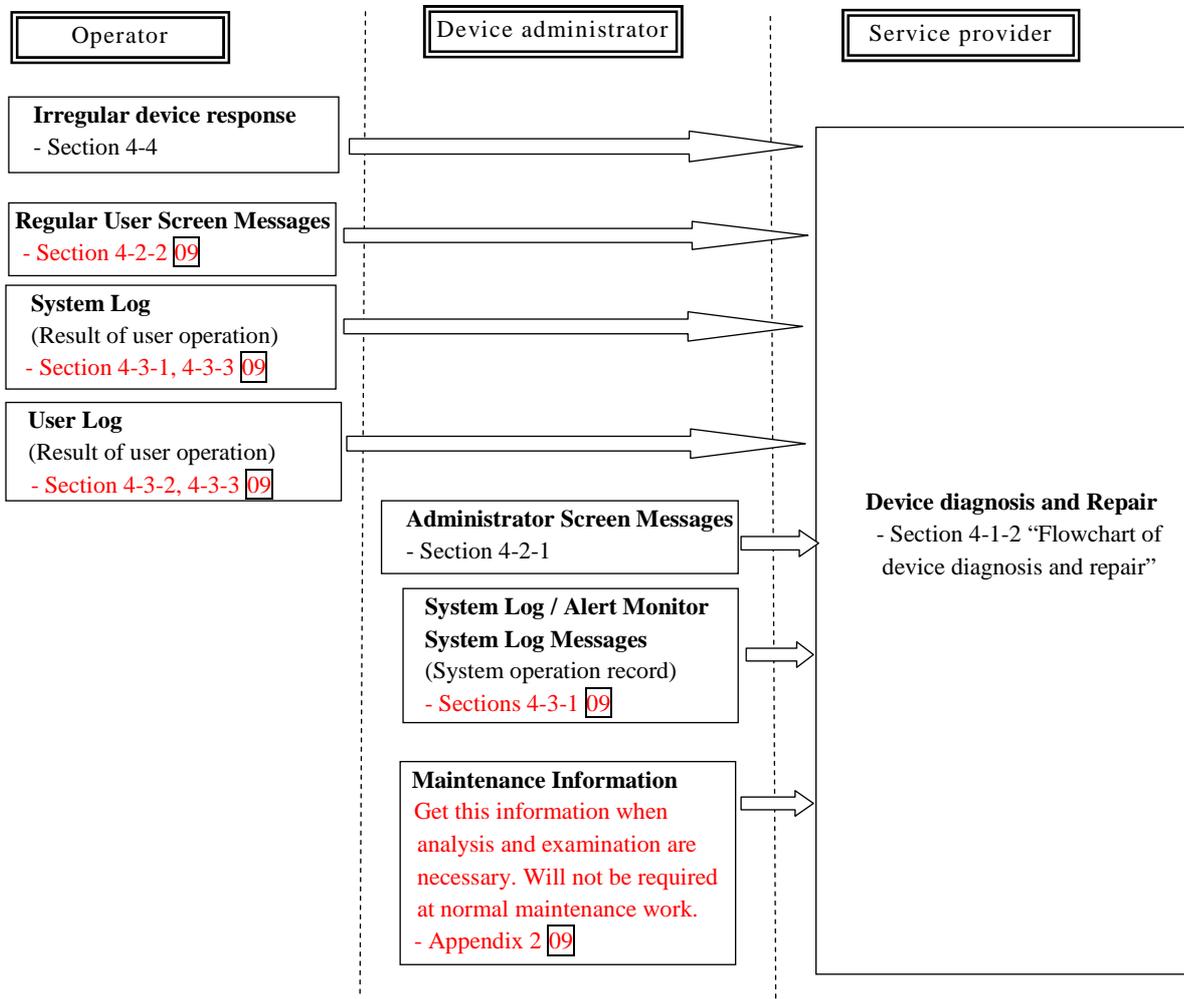
The trouble information shown below is reported to a service provider. The service provider initially diagnoses the problem with the followings:

Section 4-2-1: Administrator Screen Messages   09
Section 4-2-2: Regular User Screen Messages   09
Section 4-4: Troubleshooting from irregular device response

If maintenance of the device is required, the service provider repairs the device using the Maintenance information, checking the operation by Maintenance program (Section 6-3), and testing by Scanner maintenance mode (Section 6-1) as shown in Section 4-1-2 "Flowchart of device diagnosis and repair."

Reference: The following information is managed by the device administrator. Service person can only browse it.
- System revision, Start-of-use date, Total operating hour (Section 6-3-7).
- Consumable counter and its reset (Section 6-3-8)

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4-1-2   Flowchart of device diagnosis and repair

```
┌─────────────────────────────────────────────┐
│ Obtain the information about device failure   │
│ - Section 4-1-1 "Flowchart of trouble         │
│   escalation"                                 │
└─────────────────────────────────────────────┘
                      │
                      ▼
┌─────────────────────────────────────────────┐
│ Initial diagnosis by user interface          │
│ (Technical Support)                           │
│ - Section 4-4 "Troubleshooting from irregular │
│   device response"                            │
│ - Section 4-5 "Troubleshooting for scanner-   │
│   related case"                               │
└─────────────────────────────────────────────┘
```

When the PC section seems to be defective

When the scanner section seems to be defective

```
┌───────────────────────────────┐   ┌───────────────────────────────┐
│ Part replacement at PC section │   │ Troubleshooting at scanner      │
│ - Chapter 5 "Disassembly/      │   │ section                         │
│   Assembly"                    │   │ - Chapter 5 "Disassembly/       │
│                                │   │   Assembly"                     │
└───────────────────────────────┘   └───────────────────────────────┘
                                                    │
                                                    ▼
                                     ┌───────────────────────────────┐
                                     │ Run feeding test by Scanner     │
                                     │ Maintenance Mode after          │
                                     │ assembling the scanner unit.    │
                                     │ - Section 6-1-2: "Paper feeding │
                                     │   test"                         │
                                     └───────────────────────────────┘
```

```
┌───────────────────────────────┐
│ Perform Scan test.             │
│ - Section 6-4 "Scan Test"      │
└───────────────────────────────┘
               │
               ▼
┌───────────────────────────────┐
│ Ask the user to check the      │
│ operation.                     │
└───────────────────────────────┘
               │
               ▼
          (   End   )
```

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4-2 Administrator Messages

The following messages may appear during administrator operation.
Messages are displayed in the form of a dialog box as follows.

The following table describes the types of marks which may appear in a message dialog box.

Marks	Description
	Warning message. Displayed if invalid values have been entered for a setting. Check the message and press the [OK] button.
	Error message. Check the message and press the [OK] button.
	Information message. Check the message and press the [OK] button. No action required.
	Inquiry message. Check the message, select and press a button.

4-2-1   Administrator Screen Messages

Table 4-2-1   Administrator Screen Messages

Function (Left side menu)	Message	Recovery method for device administrator
System Status	Cannot read data from a scanner unit.	Disconnect the AC cable from the scanner to turn the power off for ten seconds, and turn the power back on again to restart the scanner. If the error status persists, check that the USB cable is correctly connected (Refer to the photo in Section 5-6). If the error status still persists, replace the Control PCA (Refer to Section 5-12).
Usage Status	Cannot read data from a scanner unit.	Disconnect the AC cable from the scanner to turn the power off for ten seconds, and turn the power back on again to restart the scanner. If the error status persists, check that the USB cable is correctly connected (Refer to the photo in Section 5-6). If the error status still persists, replace the Control PCA (Refer to Section 5-12).
Common (displayed on any administrator's screens)	Error: problem with XXXXXX (function name). Contact your FUJITSU scanner dealer or an authorized FUJITSU scanner service provider. Error code = xxxxxxxx Result code = xxxxxxxx (XXXXXX: Function Name)	Referring to Section 4-4 "Troubleshooting from irregular device response," perform maintenance work. Refer to Section 4-3-5 "Log List (Detail Codes)" for the Result code.
	Error: problem with XXXXXX (function name). Contact your FUJITSU scanner dealer or an authorized FUJITSU scanner service provider.	Referring to Section 4-4 "Troubleshooting from irregular device response," perform maintenance work.

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4-2-2 Regular User Screen Messages

Table 4-2-2 Regular User Screen Messages (1)

Screen (Left side menu)	Message	Action	Related section
Login	Scanner initialization has failed. Try turning the power off and back on again. The administrator should contact the FUJITSU scanner dealer or an authorized FUJITSU scanner service provider for help.	Try turning the power off for ten seconds, and back on again. If the error status persists, check that the USB cable is correctly connected. If the error status still persists, troubleshoot the scanner by referring to Section 4-5.	5-6 4-5
Scanning	Insufficient memory. Try turning the power off and back on again. If problem persists, the administrator should contact the FUJITSU scanner dealer or an authorized FUJITSU scanner service provider for help.	Try the following: - Reduce the size of the scan data or set a lower resolution level, and try again. - System might be unstable. Try turning the power off and back on again. If the error still persists, replace MB Unit (Section 5-25).	5-25
	An error has occurred. Some pages were skipped. Try again after turning the power off and back on again. If problem persists, the administrator should contact the FUJITSU scanner dealer or an authorized FUJITSU scanner service provider for help. Number of Skipped Pages:	Try turning the power off for ten seconds, and back on again. If the problem persists, replace the HDD UNIT (Section 5-22).	5-22
	Scanner hardware failure. The administrator should contact the FUJITSU scanner dealer or an authorized FUJITSU scanner service provider for help.	Try turning the power off for ten seconds, and back on again. If the problem persists, perform maintenance work by referring to Sections 4-4 and 4-5.	4-4 4-5
Scan Test	Scanner initialization has failed. Try turning the power off and back on again. The administrator should contact the FUJITSU scanner dealer or an authorized FUJITSU scanner service provider for help.	Try turning the power off for ten seconds, and back on again. If the error status persists, check that the USB cable is correctly connected. If the error status still persists, perform maintenance work by referring to Section 4-5.	5-6 4-5

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4-3　Logs

4-3-1　System Log

Up to 1,000 system information logs (such as for startup, shutdown, and system errors) are saved in the scanner.

System logs consists of Information logs, alert logs and error logs. Logs are issued by user's / administrator's operation or device monitoring.

Detail codes may be attached complementarily.

For the contents of system logs or detail codes, refer to Log lists in Sections 4-3-4 and 4-3-5. 09

Note: System log may contain private information such as e-mail addresses or fax numbers, so care should be taken when managing such data.

If a log file error is detected during system operation, the log file will be cleared and the following log entry recorded:

```
Error 81001004 Corrupted user log file was deleted.
```

Items	Description (format)
Date	MM/dd/yyyy, dd/MM/yyyy or yyyy/MM/dd (Date of each operation)
Time	HH:mm:ss (System log time record)
Type	Information: Information about the system. No action required.
	Error: Refer to Section 4-3-4. 09
	Warning: Refer to Section 4-3-4.
Message	Message code/Message body. Refer to Section 4-3-4 for details. 09

4-3-2　User Log

The user log summary (latest 1000 logs) is shown in date/time order.

Note: User logs may contain private information such as e-mail addresses or fax numbers, so care should be taken when managing such data.

If a log file error is detected during system operation, the log file will be cleared and the following log entry recorded:

```
Error 81001004 Corrupted user log file was deleted.
```

Items	Description (format)
Date	MM/dd/yyyy, dd/MM/yyyy or yyyy/MM/dd (Date of each operation)
Time	HH:mm:ss (Time of each operation)
User	Name of the user
Result	In Progress: Currently processing a scan operation
	OK: Operation completed successfully
	Error: Operation failed to complete successfully
Code	Code for each operation
Operation	e-Mail: Scanned data is sent as an e-mail attachment
	Fax: Scanned data is sent as a Fax
	Save: Scanned data is saved in a network folder
Pages	xxx: The number of pages scanned.
Description	Detailed information for each message

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4-3-3 Downloading the Logs (System Logs / User Logs)

(1) Log in with Maintenance mode.

Carry out the operation by the touch panel of the device or the Admin Tool via network.

The user name and the password are as follows:

Model name	Login mode	User name	Password
fi-6000NS	Maintenance Mode	fi-maintenance	fi-scanner6-maintenance
fi-6010N			

- Enter the user ID and password, and then press the [Login] button.
➔ "Menu" screen appears.

(2) On the "Menu" screen,
1. Select the [Operation Logs] tab on the top menu.
2. Select the [User Log] or [System Log] tab on the left side menu.
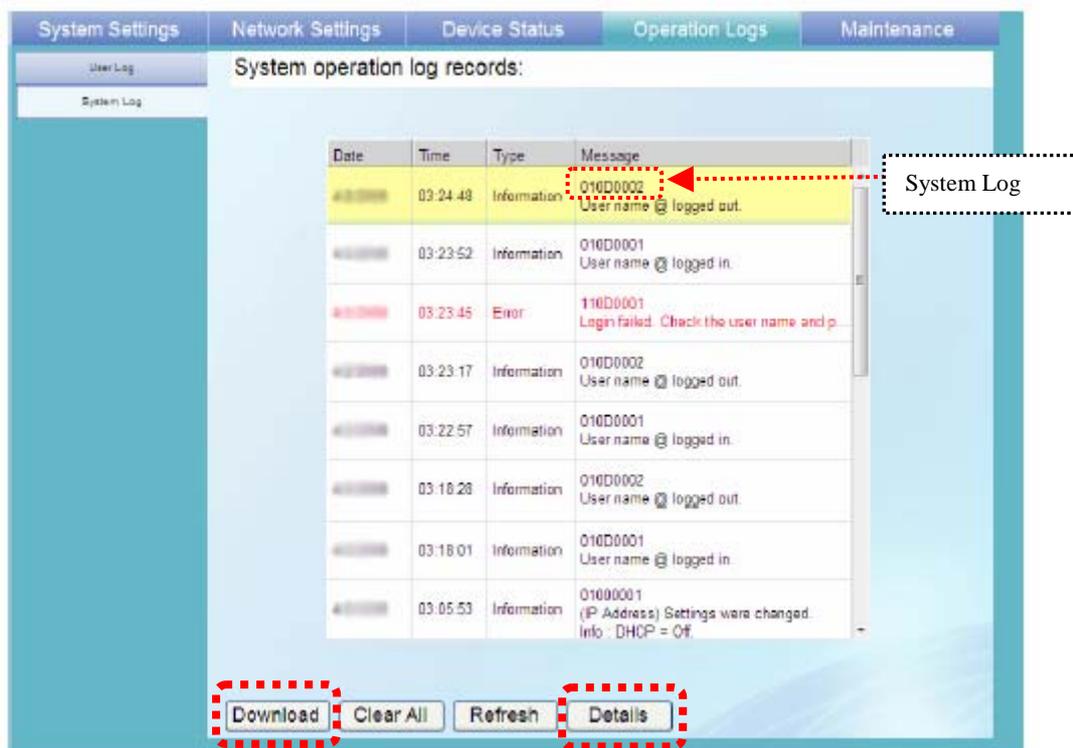
➔ The "User Log" or "System Log" screen appears.

(3) Select the log you wish to view, and then press the [Details] button to see the details.

* The above screen appears when logging on via Admin Tool. If the operation was conducted by the touch panel to log in via the device, the [Download] button is not displayed.

* Logon user name and design of the screen for fi-6010N differ from those above, but the procedure is the same. 09

* If you wish to download the "User Log" or "System Log" only, press the [Download] button to save the file.
(Files are saved in CSV format.)

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4-3-4   Log List (Messages / Actions)

The following log list includes System Logs and User Logs. Items are listed in the order of the code.

Log List (1)

Code	Message	Action	Related Sections
00000000	-----------------------------------	No action required.	
010D0001	User name XXXX logged in.		
010D0002	User name XXXX logged out.		
010E0001	Maximum number (10) of Scan&Buffer jobs already queued, please wait…	A maximum of ten jobs may be buffered. Wait until scanner is no longer in busy status.	
110E0001	Notification e-mail could not be sent to the administrator.	Contact a system administrator to check whether e-mail can be sent.	
01000001	(XXXXXX) Settings were changed. Info: (XXXXXX: Function Name)	No action required.	
01000002	Pad assembly usage counter was cleared.		
01000003	Pick roller usage counter was cleared.		
01000004	All users log was prepared for download.		
01000005	System log was prepared for download.		
01000006	User data store was prepared for download.		
01000007	User data store was restored.		
01000008	System settings were prepared for download.		
01000009	System was updated. Info: New System Version = x.x.x.x		
01000010	Test e-mail was sent successfully.		
01000011	User data store was cleared.		
01000012	System time was synchronized successfully.		
01000013	System settings were restoral completed.		
01000014	Technical support data was prepared for download.		
01000015	Add-in module was installed successfully. Add-in: xxxxxxx Version: xxxxxxx		
01000016	Add-in model was uninstalled successfully.		
01000017	System settings restoral started.		
01001014	Scanner alert monitor started Scanner alert monitor start date/time = MM/dd/yyyy HH:mm:ss		
01001015	Scanner alert monitor stopped.		
01001016	Scanner alert monitor stopped by system standby mode.		
01001017	Scanner alert monitor restarted after resume from standby.		
01080101	Pick roller cleaned.		
01091000	Language setting changed to XXXX.		
01121001	Scanner started up.		
01121002	Scanner resumed from standby mode.		
01131001	Scanner will be shutdown.		
01131002	Scanner entered standby mode.		
03080001	Scanner firmware has been updated. Scanner firmware version: XXXX		
05050000	Add-in module loaded successfully.		

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Log List (2)

Code	Message	Action	Related Sections
05050001	Add-in module operation started.	No action is required. However, the finish status of the Add-in module will also be displayed later on. 1. "Operation started" message •05050001 2."Operation finished" message The finish status of the Add-in module is displayed, and one of the following message codes is output. •05050002 (successful completion) •05050003 (cancelled termination) •05050004 (termination by automatic logout) •15050002 (abnormal termination) After the "1. Operation started" message is displayed, if the "2. Operation finished" message is not displayed, control is not returned from the Add-in module to the scanner. Contact an Add-in module administrator.	
05050002	Add-in module operation finished successfully.	Add-in module process is terminated successfully. No action required.	
05050003	Add-in module operation was cancelled.	Add-in module process is cancelled. No action required.	
05050004	Add-in module operation finished automatically.	Add-in module process is terminated by logged out automatically. No action required.	
05050005	Add-in module passed self-authentication.	No action required.	
05050006	Add-in module failed self-authentication.		
0B020001	Scanner registered by Central Admin server.		
0B020005	User roaming data uploaded.		
0B020006	Update process halted by login.		
0B020020	Add-in updated.		
0B020021	Scanner settings updated.		
0B020022	System updated.		
0B020023	User roaming data updated.		
0B020024	Job mode settings updated.		
0C010001	Created new Job. Job name: XXXXXX		
0C010002	Copied existing Job. Job name: XXXXXX Source name: YYYYYY		
0C010003	Edited Job. Job name: XXXXXX		
0C010004	Deleted Job. Job name: XXXXXX		
0C020001	Created new Job Menu. Menu name: XXXXXX		

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Log List (3)

Code	Message	Action	Related Sections
0C020002	Copied existing Job Menu. Menu name: XXXXXX Source name: YYYYYY	No action required.	
0C020003	Edited Job Menu Menu name: XXXXXX		
0C020004	Deleted new Job Menu Menu name: XXXXXX		
0C030001	Created new User Group Group name: XXXXXX		
0C030003	Edited User Group Group name: XXXXXX		
0C030004	Deleted User Group Group name: XXXXXX		
0C040001	LDAP server access succeeded. Search base: XXXXXX		
100B0001	Network is busy. Try again later.	Wait for a while, and try again.	
11030003	Cannot find the network printer path.	•Contact a server administrator to check the server operation •Check whether the spooler is operating accurately.	
11040003	Cannot find the network folder path.	Contact a network administrator to check server status.	
11040005	Insufficient free space in the designated network folder.	Ensure the free space requirements are met, and try again.	
11080001	Number of user data stores has reached the maximum allowed. New users may not log in until the old user data stores are deleted.	To have the user data store cleared, contact a system administrator. Clearing the user data store is not an undoable action.	
11090001	Application could not be started. System restored to last known good state. Contact a system administrator.	System or user settings were restored at system restart. Contact a system administrator. The administrator should check the restored system or user settings.	
110B0001	Search has timed out. Contact a system administrator.	Contact a system administrator to check the time of the search timeout.	
110B0002	Not connected to the network.	Check that the system network is functioning normally by performing a ping test from another machine in the network, other than from a machine in the same server as network printer.	
110B0004	LDAP server is busy.	Try the following: •Contact a system administrator to have the network settings checked. •Contact a system administrator to have the server status checked.	
110B0100	LDAP server response error.	Contact a system administrator to check whether the LDAP server is available. Set a valid user name and password.	
110C0010	Password contains invalid characters. Re-enter the password, and try again.	Enter a password and try again.	
110D0001	Login failed. Check the user name and password, and try again.	Try the following: •Enter a user name and password and try again. •Enter a valid user name and password, and try again. •Contact a system administrator and have them check that the LDAP server is set. •Contact a system administrator to have the server status checked. •Contact a system administrator to check if the password has expired.	

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Log List (4)

Code	Message	Action	Related Sections
110D0002	Cannot connect to the LDAP server.	Try the following: •The network settings may not be valid. Contact a system administrator to have the network settings checked. •The server is not working. Contact a system administrator to have the server status checked. •If using SSL communication when connecting to the LDAP server, contact an administrator to check if the server certificate, issued from a root certification authority, is installed on the LDAP server. •Set a valid user name and password.	
110D0004	Access to network folder was refused.	Contact a server administrator to find out if an access permit has been set.	
110D0005	Number of network path connections has reached the maximum allowed. No more may be specified.	Close unneeded network connections, then try specifying the desired network path again.	
110D0006	Invalid LDAP Search Base format.	Contact a system administrator to have the LDAP search base format corrected.	
110D0007	Current login (LDAP account) has become invalid.	Contact a system administrator to have the login account validated.	
110D0008	The file to be overwritten may be in use elsewhere.	Check that the file to be overwritten is closed, and try again.	
110D0009	Specified password is no longer valid for this network folder.	Try the following: •Log in with a different account. •Contact a network administrator to have the password validated again.	
110D000A	Specified user needs to renew their password for this network folder.	Try the following: •Log in with a different account. •Contact a network administrator to have the password changed.	
110D000B	Specified user is no longer able to log in to this network folder.	Try the following: •Log in with a different account. •Contact a network administrator to have the account validated.	
110D000C	Access to network folder was refused. The specified account is currently locked out.	Contact a network administrator to have the account unlocked.	
110D000D	Access to network folder was refused. Login is not possible at this time.	Try the following: •Try again when login is possible. •Contact a network administrator to have the time setting changed.	
110D0044	Access to network printer was refused.	Contact a server administrator to find out if an access permit has been set.	
110D0049	Specified password is no longer valid for this network printer.	Try the following: •Log in with different account. •Contact a network administrator to have the account validated again.	
110D004A	Specified user needs to renew their password for this network printer.	Try the following: •Log in with different account. •Contact a network administrator to have the password changed.	
110D004B	Specified user is no longer able to log in to this network printer.	Try the following: •Log in with a different account. •Contact a network administrator to have the account validated.	

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Log List (5)

Code	Message	Action	Related Sections
110D004C	Access to network printer was refused. The specified account is currently locked out.	Contact a network administrator to have the account unlocked.	
110D004D	Access to network printer was refused. Login is not possible at this time.	Try the following: •Try again when login is possible. •Contact a network administrator to have the time setting changed.	
110D004E	Could not connect to the network printer.	Try the following: •Contact a network administrator to check that the print server is working properly. •Check that the print server spooler is operating properly. •Contact a network administrator to find out if an access permit has been set. •Contact a system administrator to check that the scanner IP address and network printer settings are correct.	
110D0100	Error: network folder could not be accessed.	Contact a network administrator to check whether the network folder can store data.	
110D0140	Error: network printer could not be accessed.	Contact a network administrator to check whether the network printer can be accessed.	
11150001	Corrupted system log file was deleted.	System log file was deleted because the scanner was turned off during operations. No action required.	
11150002	Corrupted user log file was deleted.	User log file was deleted because the scanner was turned off during operations. No action required.	
12010001	Scanned data size exceeded maximum size allowed for e-mail attachments.	Try the following: •Reduce the number of pages to be scanned and send the e-mail in separate parts. •Select a higher compression level and try again. If the problem persists, contact a system administrator to check the "Maximum Attachment Size" setting.	
12010002	Could not connect to server when sending e-mail.	Try the following: •Check that the LAN cable of the scanner and SMTP server is connected properly. •Contact a system administrator to check that then scanner IP address and SMTP server settings are correct. •Contact a system administrator to check that the SMTP server is working properly.	
12010003	"From" address was rejected by the server when sending e-mail.	Contact a system administrator to check that the specified e-mail source address is authorized for use on the server.	
12010004	"To" address was rejected by the server when sending e-mail.	Contact a system administrator to check that the specified e-mail destination address is authorized for use on the server.	
12010005	e-Mail size exceeded maximum e-mail size allowed by the SMTP server.	Contact a system administrator to check the maximum e-mail size allowed by the SMTP server.	

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Log List (6)

Code	Message	Action	Related Sections
12010006	SMTP server connection was lost while sending e-mail.	Try the following: •Check that the LAN cable of the scanner and SMTP server is connected properly. •Contact a system administrator to check that then scanner IP address and SMTP server settings are correct. •Contact a system administrator to check that the SMTP server is working properly. •Contact a system administrator to check the maximum e-mail size allowed by the SMTP server.	
12010100	Error: e-mail could not be sent.	Contact a system administrator to check if sending e-mail is allowed.	
12020001	Scanned data size exceeded maximum size allowed for sending by fax.	Try the following: •Reduce the number of pages to be scanned and send the fax in separate parts. •Select a higher compression level, and try again. If the problem persists, contact a system administrator to check the "Maximum Attachment Size" setting.	
12020002	Could not connect to server when sending fax.	Try the following: •Check that the LAN cable of the scanner and SMTP server is connected properly. •Contact a system administrator to check that the scanner IP address, SMTP server and fax server settings are correct. •Contact a system administrator to check that the SMTP and fax servers are working properly.	
12020003	"From" address was rejected by the server when sending fax.	Contact a system administrator to check that the specified e-mail source address is authorized for use on the server.	
12020004	"To" address was rejected by the server when sending fax.	Contact a system administrator to check that the specified e-mail destination address is authorized for use on the server.	
12020005	Fax size exceeded maximum fax size allowed by the SMTP server.	Contact a system administrator to check the "Maximum Attachment Size" setting.	
12020006	SMTP server connection was lost while sending fax data.	Try the following: •Check that the LAN cable of the scanner and SMTP server is connected properly. •Contact a system administrator to check that then scanner IP address and SMTP server settings are correct. •Contact a system administrator to check that the SMTP server is working properly. •Contact a system administrator to check the maximum e-mail size allowed by the SMTP server.	
12020100	Error: fax could not be sent.	Contact a system administrator to check if sending fax is allowed.	
12030001	Cannot find the network printer path.	Try the following: •Check that the LAN cable of the scanner and print server is connected properly. •Contact a network administrator to check that the print server is working properly. •Check that the spooler is operating properly. •Contact a system administrator to check that the scanner IP address and network printer settings are correct.	
12030002	Access to network printer was refused.	Contact a server administrator to find out if an access permit has been set.	
12030005	Network is busy. Try again later.	Wait for a while, and try again.	

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Log List (7)

Code	Message	Action	Related Sections
12030006	User name or password may be incorrect.	Re-enter the user name and password.	
12030007	Not connected to the network.	Check that the system network is functioning normally by performing a ping test from a machine that is not in the same server as network printer.	
12030010	Access to network printer was refused. Login is not possible at this time.	Try the following: •Try again when login is possible. •Contact a network administrator to have the time setting changed.	
12030011	Could not connect to the network printer.	Try the following: •Check that the LAN cable is connected properly to the scanner and print server. •Contact a network administrator to check that the print server is working properly. •Check that the print server spooler is operating properly. •Contact a network administrator to find out if an access permit has been set. •Contact a system administrator to check that the scanner IP address and network printer settings are correct.	
12030100	Error: could not print.	Try the following: •Check that the LAN cable of the scanner and file server is connected properly. •Contact a system administrator to check that the scanner IP address and registered network printer path settings are correct. •Check the network printer authority privileges.	
1203000A	Number of network path connections has reached the maximum allowed. No more may be specified.	Close unneeded network connections, and then try specifying the desired network path again.	
1203000C	Specified user is no longer able to log in to this network printer.	Try the following: •Log in with a different account. •Contact a network administrator to have the account validated.	
1203000D	Specified password is no longer valid for this network printer.	Try the following: •Log in with a different account. •Contact a network administrator to have the password validated again.	
1203000E	Specified user needs to renew their password for this network printer.	Try the following: •Log in with a different account. •Contact a network administrator to have the password changed.	
1203000F	Access to network printer was refused. The specified account is currently locked out.	Contact a network administrator to have the account unlocked.	

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Log List (8)

Code	Message	Action	Related Sections
12040001	Cannot find the network folder path.	Try the following: •Check that the LAN cable of the scanner and file server is connected properly. •Check that the file server is working properly. •Contact a system administrator to check that the scanner IP address and network folder settings are correct. For saving to the FTP server network folder, try the following: •Contact a system administrator to check whether or not read or write access to the FTP server network folder is permitted for the currently logged in user or authenticated user. •Check if the file attribute has been set as hidden. •Check that the target file to be overwritten is not used, and try again.	
12040002	Access to network folder was refused.	Contact a system administrator to check whether or not access to the network folder is permitted for the currently logged in user or authenticated user.	
12040003	File already existed, so data could not be saved.	To overwrite the existing file on the "Save" screen, set "Overwrite old files?" as "Yes", and try again.	
12040005	Network is busy. Try again later.	Wait for a while, and try again.	
12040006	User name or password may be incorrect.	Re-enter the user name and password.	
12040007	Not connected to the network.	Check that the system network is functioning normally by performing a ping test from a machine that is not in the same server as network folder.	

12040008	Scan&Buffer job is already queued on the computer that owns the specified network folder.	Try the following:
		  Select a different network folder.
		  Wait a short time, then try again.	

12040009	Insufficient free space in the designated network folder.	Ensure the free space requirements are met, and try again.	
12040010	Access to network folder was refused. Login is not possible at this time.	Try the following: •Try again when login is possible. •Contact a network administrator to have the time setting changed.	
12040011	"Save as:" filename contains invalid characters (:*?"<>|), or is set to a reserved string (CON, PRN, AUX, CLOCK$, NUL, COM0, …, COM9, LPT0, …, LPT9). Re-enter the filename and try again.	The following characters and reserved strings cannot be used. : * ? " < >	CON PRN AUX CLOCK$ NUL COM0 ... COM9 LPT0 ... LPT9 Re-enter the file name using only valid characters.	

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Log List (9)

Code	Message	Action	Related Sections
12040100	Error: network folder access was refused.	For saving to the FTP server network folder, try the following: •Check that the LAN cable is connected properly to the scanner and FTP server. •Contact a network administrator to check that the FTP server is working properly. •Contact a system administrator to check that the scanner IP address setting and FTP server network folder path are correct. "8.3 Network Connection Troubleshooting" (page 388) •Ensure the free space requirements are met, and try again. •Close unneeded network connections, and try specifying the network path again.	
1204000A	Number of network path connections has reached the maximum allowed. No more may be specified.	Close unneeded network connections, then try specifying the desired network path again.	
1204000B	File targeted for overwriting may already be in use.	Check that the file to be overwritten is closed, and try again.	
1204000C	Specified user is no longer able to log in to this network folder.	Try the following: •Log in with a different account. •Contact a network administrator to have the account validated.	
1204000D	Specified password is no longer valid for this network folder.	Try the following: •Log in with a different account. •Contact a network administrator to have the password validated again.	
1204000E	Specified user needs to renew their password for this network folder.	Try the following: •Log in with a different account. •Contact a network administrator to have the password changed.	
1204000F	Access to network folder was refused. The specified account is currently locked out.	Contact a network administrator to have the account unlocked.	
12130001	Error: Scan&Buffer process could not output data for the scheduled jobs.	Try again.	
13060001 1306001A 1306001D	Scanner initialization has failed. Try turning the power off and back on again. The administrator should contact the FUJITSU scanner dealer or an authorized FUJITSU scanner service provider for help.	Try turning the power off for ten seconds, and back on again. If the error status persists, check that the USB cable is correctly connected (Section 5-6). If the error status still persists, perform maintenance work by referring to Section 4-5. If the USB cable is disconnected; (1) At power on The message above appears. Pressing the [OK] button displays the "Login" screen. (2) During operation - Administrator menu: The message appears when the device information is acquired. - User menu: The message appears at scanning. - At maintenance mode: "Scanner not found. Connection is terminated." appears during scanner operation.	5-6 4-5

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Log List (10)

Code	Message	Action	Related Sections
13061001 13061002 13061003	Scan error occurred. File name: xxxxx Error code: xxxxx	Shutdown and press the startup button to restart the scanner. If the error status persists, perform maintenance work by referring to Sections 4-4 and 4-5.	4-4 4-5
1306002C	Insufficient memory. Try turning the power off and back on again. If problem persists, the administrator should contact the FUJITSU scanner dealer or an authorized FUJITSU scanner service provider for help.	Try the following: •Reduce the size of the scan data or set a lower resolution level, and try again. •System might be unstable. Try turning the power off and back on again. If the error still persists, replace MB Unit (Section 5-25).	5-25
13080001	Scanner firmware update failed. The administrator should contact the FUJITSU scanner dealer or an authorized FUJITSU scanner service provider for help. Scanner firmware version: XXXX	•Try turning the power off and back on again. •If the error status persists, replace the Control PCA (Section 5-12). •If the error status still persists, replace the HDD UNIT (Section 5-22).	5-12 5-22
1314002C	Insufficient memory. Try turning the power off and back on again. If problem persists, the administrator should contact the FUJITSU scanner dealer or an authorized FUJITSU scanner service provider for help.	•Reduce the size of the scan data or set a lower resolution level, and try again. •If the error status persists, replace the Control PCA (Section 5-12) •If the error status still persists, replace the MB UNIT (Section 5-25).	5-12 5-25
15050001	Add-in module could not be loaded.	Try turning the power off for ten seconds, and back on again. If the error status persists, uninstall an Add-in module, and then install it again in the following procedure. 1. Log in with Device administrator mode (See Section 2-2-2). 2. Select the [Maintenance] tab on the top menu and [Add-in Manager] tab on the left side menu. 3. Press the [Uninstall] button. 4. When a confirmation message appears, press the [OK] button. ➔ After the Add-in module has been uninstalled, the scanner is restarted. 5. Log in with Device administrator mode (See section 2-2-2). 6. Select the [Maintenance] tab on the top menu and [Add-in Manager] tab on the left side menu. 7. Select an Add-in installation file. 8. Press the [Install] button. 9. When a confirmation message appears, press the [OK] button. ➔ After the Add-in module has been installed, the scanner is restarted.	2-2-2
15050002	Add-in module operation error.		
6B020003	Request received from invalid server.	The scanner received an invalid access request. If the problem persists, contact the network administrator.	
6B020004	Network error occurred while contacting Central Admin server.	Refer to Code "7B020001" The Central Admin Server will be contacted again when the scanner is re-started, resumed from standby mode, or when the user logs out.	

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Log List (11)

Code	Message	Action	Related Sections
7B020001	Scanner registration by Central Admin server failed.	•For Central Admin Server Check that the scanner is registered on the Central Admin Console "Scanner List" screen. •For Scanner Enter the address of the Central Admin Server on the "Ping" screen on the [Network Settings] tab, and check whether or not there is a response from the Central Admin Server. If there is no response from the Central Admin Server, check whether or not DHCP is enabled on the "IP Address" screen on the [Network Settings] tab. If DHCP is disabled, check that the IP Address, Subnet Mask, Default Gateway settings are correct. Check also that the network between the scanner and the Central Admin Server is connected correctly. Also check that the scanner's server-side status is "Registered" on the "Central Admin Server" screen on the [Network Settings] tab. If the scanner's server-side status is "Unregistered", check the address and the port number of the Central Admin Server, and register the scanner on the Central Admin Server.	
7B020011	Inventory Information acquisition failed.	Try the following: •Check that physical network connection to the DHCP server is functioning correctly. •Check the DHCP server. The server may not be operating normally, or the DHCP settings (restricted number of leases or MAC address validation) may be causing invalid IP addresses to be assigned. •If the problem persists, replace the maintenance parts in the following order. 1. MB UNIT (Section 5-25) 2. HDD UNIT (Section 5-22)	5-25 5-22
7B020023	New user data could not be uploaded to the server's User Roaming store.	Refer to Error Code "7B020001". User roaming data cannot be updated because the new user data has not be uploaded to the Central Admin Server.	
7B020025 7B020026	Contact with Central Admin server failed.	Refer to Error Code "7B020001".	
7B020035	Network error occurred while contacting Central Admin server.	Refer to Error Code "7B020001". The new user roaming data and job mode settings cannot be used.	
7B020036	Network error occurred while contacting Central Admin server.	Refer to Error Code "7B020001". The applied status was not notified to the Central Admin Server. The applied status will be notified to the Central Admin Server the next time the scanner is restarted, resumed from standby mode, or when the user logs out.	
7B020038	Scanner settings could not be applied.	Refer to Error Code "7B020001". Update is not complete. If the "Status Details" window in Central Admin Console displays "Error" status for the scanner, clear the error. Update process will be run again by logout.	

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Log List (12)

Code	Message	Action	Related Sections
7B020039	Some scanner settings could not be applied.	When the scanner settings were applied, some settings may have failed to be applied. Using the Admin Tool, check the contents of the system error log, and try again. For more details about running the update process, refer to the action for error "7B020038".	
7B020050	Add-in update failed.	Refer to Error Code "7B020001". Update is not complete. If the "Status Details" window in Central Admin Console displays "Error" status for the scanner, clear the error. Update process will be run again by logout.	
7B020051	System update failed.		
7B020060	User Roaming Data download failed.	Refer to Error Code "7B020001". The latest user roaming data may not be used because the user roaming data download failed. To use the latest user roaming data, deal with errors and try to login again. If the user roaming data download fails and the and error persists, new user roaming data is not uploaded to the Central Admin Server, even if the user data in the scanner is changed or the scanner is logged out. If both "Roaming Mode" and "Job Mode" are set as "On" on the [Central Admin Server] screen of the [Network Settings] tab, new job mode settings may also not be downloaded. To use the latest user roaming data, it must be downloaded from the Central Admin Server. After dealing with the error, log in using the Central Admin Console again.	
7B020061	Job Mode Settings download failed.	Refer to Error Code "7B020001". Job mode settings cannot be downloaded because the job mode settings have not been updated. To use the job mode settings, they must be downloaded from the Central Admin Server. After dealing with the error, re-login using Central Admin Console and try again.	
7C040001	LDAP search base setting is invalid. Search base: XXXXXX	Check the search base settings.	
7C040002	LDAP server is busy. Search base: XXXXXX	Try the following: •Wait for a while, and try again. •Contact a server administrator to check LDAP server operation.	
7C040003	Search has timed out. Contact a system administrator. Search base: XXXXXX	Contact a server administrator to check that the search timeout setting is correct.	
7C040005	Cannot connect to the LDAP server. Check that the LDAP access settings are correct and that the LDAP server is running and accessible. Search base: XXXXXX	Try the following: •Check the LDAP server and search base settings. •Contact a server administrator to check LDAP server operation.	
7C040006	LDAP server connection failed SSL authentication. Search base: XXXXXX	Contact a server administrator to check that the SSL authentication settings and certification for the LDAP server are correct.	

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7C040008	LDAP access user name, password and/or search base settings are invalid. Search base: XXXXXX	Try the following: •Specify a valid user name and password. •Check the LDAP server and search base settings.	
7C040009	LDAP server access failed. Check that the LDAP access settings and LDAP server settings are correct. Search base: XXXXXX Detail error code: XXXXXXXXXX Detail error message: XXXXXXXXXX	Try the following: •Contact a server administrator to check LDAP server operation. •Check that the network settings are correct.	
7C040010	Could not get data from the LDAP server. Check the LDAP search base settings. Search base: XXXXXX	Check the search base settings.	
81000001	CPU power supply error.	Replace MB UNIT.	5-25
81000002	1.5V power supply error.		
81000003	3.3V power supply error.	(1) Replace DC-DC MODULE. (2) Replace MB UNIT.	5-24 5-25
81000004	5V power supply error.		
81000005	12V power supply error.		
81000006	-12V power supply error.		
81000007	5V Standby power supply error.		
81000008	Battery power supply error.	Replace MB UNIT.	5-25
81000009	Internal temperature error.	(1) Check if air ventilation inlet is blocked. (2) Confirm if the FAN UNIT is rotating by hearing the noise from it. (3) Replace MB UNIT.	5-20 5-25
81000010	CPU temperature error.		
81000011	System fan speed error.	(1) Replace FAN UNIT. (2) Replace MB UNIT.	5-20 5-25
81000012	CPU fan speed error.		
81001001	Error: problem with XXXXXX (function name). Contact your FUJITSU scanner dealer or an authorized FUJITSU scanner service provider. Error code=xxxxxxxx Result code=xxxxxxx	Referring to Section 4-4 "Troubleshooting from irregular device response," perform maintenance work. Refer to Section 4-3-5 "Log List (Detail Codes" for the Result code.	4-4 4-3-5
81001002	Error: problem with XXXXXX (function name). Contact your FUJITSU scanner dealer or an authorized FUJITSU scanner service provider.	Referring to Section 4-4 "Troubleshooting from irregular device response," perform maintenance work.	4-4
81001003	Corrupted system log file was deleted.	No action required.	
81001004	Corrupted user log file was deleted.		
81001005	Setting could not be changed. Info: XXXXXX Add-in: xxxxxx Version: xxxxx		
81001006	(IP Address) Settings could not be changed. Info: Specified IP address is already being used. DHCP = Off IP Address = *xxx.xxx.xxx.xxx* Subnet Mask = *xxx.xxx.xxx.xxx* Default Gateway = *xxx.xxx.xxx.xxx*	Returns to the previous IP address before it was changed. Enter a non-duplicated IP address, and try again.	

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Log List (14)

Code	Message	Action	Related Sections
81002003	Alert notification e-mail could not be sent.	Check the following: •Check if the computer connected to the SMTP server is running properly. •Check if an e-mail can be sent to the address from another personal computer in the network. •By performing a ping test, check if the SMTP server or the network connection to the SMTP server is working properly. •If there is no response from the SMTP server ping test, check that the system network is functioning normally by performing an SMTP server ping test from another machine in the network. •If only the SMTP server cannot connect to the network, request the network administrator to check that the SMTP server and the network connection to the server are functioning normally.	
81002004	Device monitoring service error.	Network scanner alert monitor software failure. Collect the maintenance information by referring to Appendix 2. "2. Downloading the Maintenance Information (Collective download) If the error status persists, replace the HDD UNIT (Section 5-22).	5-22 Appendix 2-2
82000004	LCD backlight rated lifetime reached. Replace as convenient.	LCD backlight has reached 50,000 hours of operation, its recommended rated lifetime. Replace the LCD Unit (Section 5-14).	5-14
82000005	Pad assembly needs replacement soon.	Obtain a replacement Pad ASSY. The Pad ASSY should be replaced after every 50,000 scanned sheets or once a year.	7-6-1
82000006	Pad assembly needs replacement now.	Pad ASSY has passed its rated lifetime (50,000 scanned sheets or one a year) and needs to be replaced. After replacing the Pad ASSY, reset the consumable counter.	7-6-3
82000007	Pick roller needs replacement soon.	Obtain a replacement Pick roller. The pick roller should be replaced after every 100,000 scanned sheets or once a year.	7-6-1
82000008	Pick roller needs replacement now.	Pick roller has passed its rated lifetime (100,000 scanned sheets or one a year) and needs to be replaced. After replacing the Pick roller, reset the consumable counter.	7-6-4
82001001	Cannot read data from a scanner unit.	Check the scanner, and then restart the system. If the error status persists, replace the Control PCA (Section 5-12). If the error status still persists, replace the MB UNIT (Section 5-25).	5-12 5-25
83070001	Pad assembly needs replacing. Contact a system administrator.	Pad ASSY has passed its rated lifetime (50,000 scanned sheets or one a year) and needs to be replaced. After replacing the Pad ASSY, reset the consumable counter.	7-6-3
83070002	Pick roller needs replacing. Contact a system administrator.	Pick roller has passed its rated lifetime (100,000 scanned sheets or one a year) and needs to be replaced. After replacing the Pick roller, reset the consumable counter.	7-6-4

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Log List (15)

Code	Message	Action	Related Sections
83070006		This error does not occur on this network scanner.	
83070007		Motor alarm. Shutdown and press the startup button to restart the scanner. If the problem persists, refer to Section 4-5-5 "E4: Motor alarm" to perform the maintenance work.	4-5-5
83070008	Scanner hardware failure. The administrator should contact the FUJITSU scanner dealer or an authorized FUJITSU scanner service provider for help.	Lamp alarm. Shutdown and press the startup button to restart the scanner. If the problem persists, replace the maintenance parts in the following order. 1. Control PCA 2. Lamp 3. Lamp Inverter	5-10-2 5-10-5 5-11-2 5-11-4 5-12
8307000C		Optical alarm. Shutdown and press the startup button to restart the scanner. If the problem persists, refer to Section 4-5-4 "E2 or E3: Optical alarm" to perform the maintenance work.	4-5-4
84000001	An error has occurred. Try turning the power off and back on again. The administrator should contact the FUJITSU scanner dealer or an authorized FUJITSU scanner service provider for help. [alphanumeric eight digits]	If the scanner does not restart automatically, disconnect the AC cable from the scanner to turn the power off, wait for at least ten seconds, then reconnect the AC cable and try turning the power back on again. Refer to Section 4-3-5 "Log List (Detail Codes)" for the Result code.	4-3-5
84000002	An error has occurred. The system must be restarted. Any buffered jobs will be canceled. If problem persists, the administrator should contact a FUJITSU scanner dealer or an authorized FUJITSU scanner service provider for help. [alphanumeric eight digits]	If the scanner does not restart automatically, disconnect the AC cable from the scanner to turn the power off, wait for at least ten seconds, then reconnect the AC cable and try turning the power back on again. Refer to Section 4-3-5 "Log List (Detail Codes)" for the Result code.	4-3-5
84000003	An error has occurred. The system must be restarted. Any buffered jobs will be canceled. After restarting the system, if the same error occurs, it may be due to a scanner failure. In this case, remove any documents that have been fed into the scanner, disconnect and reattach the power cord, and restart the system again. If problem persists, the administrator should contact a scanner dealer or an authorized scanner service provider for help. [alphanumeric eight digits]	If the scanner does not restart automatically, disconnect the AC cable from the scanner to turn the power off, wait for at least ten seconds, then reconnect the AC cable and try turning the power back on again. Refer to Section 4-3-5 "Log List (Detail Codes)" for the Result code.	4-3-5

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Log List (16)

Code	Message	Action	Related Sections
F2010002	An error has occurred. Try turning the power off and back on again. The administrator should contact the FUJITSU scanner dealer or an authorized FUJITSU scanner service provider for help. [alphanumeric eight digits]	Thread error during mail transfer processing Shutdown and press the startup button to restart the scanner. If the problem persists, replace the maintenance parts in the following order. Control PCA (section 5-12) Lamp (Section 5-22) Inverter (Sections 5-10-5, 5-11-4)	5-12 5-22 5-10-5 5-11-4
F2020002		Thread error during fax transfer processing. Shutdown and press the startup button to restart the scanner. If the problem persists, replace the maintenance parts in the following order. 1. Control PCA (Section 5-12) 2. HDD UNIT (Section 5-22)	5-12 5-22
F2040002		Thread error during saving to folder. Shutdown and press the startup button to restart the scanner. If the problem persists, replace the maintenance parts in the following order. 1. Control PCA (Section 5-12) 2. HDD UNIT (Section 5-22)	5-12 5-22
F4B30000	An error has occurred. Try turning the power off and back on again. The administrator should contact the FUJITSU scanner dealer or an authorized FUJITSU scanner service provider for help. [alphanumeric eight digits]	Failed to wait for thread termination. Shutdown and press the startup bottom to restart the scanner. If the problem persists, replace the maintenance parts in the following order. 1. Control PCA (Section 5-12) 2. HDD UNIT (Section 5-22)	5-12 5-22
F4CA0000		Failed in thread creation Shutdown and press the startup bottom to restart the scanner. If the problem persists, replace the maintenance parts in the following order. 1. Control PCA (Section 5-12) 2. HDD UNIT (Section 5-22)	5-12 5-22
F4EF0000		The information acquired from INI file or share file is not correct. Shutdown and press the startup bottom to restart the scanner. If the problem persists, replace the maintenance parts in the following order. 1. Control PCA (Section 5-12) 2. HDD UNIT (Section 5-22)	5-12 5-22

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4-3-5 Log List (Detail Codes)

Detail Code – (1)

Detail code	Cause	Category
0xF1110001	Unexpected error during system start-up.	Software
0xF1110002	Unexpected error upon system termination.	
0xF1110003	Unexpected error during system start-up due to insufficient language information setting.	
0xF1110004	Unexpected error during system start-up because of no temporary folder to save the scanned file found.	
0xF1110005	Unexpected error during system start-up because of no output folder to save the scanned file found.	
0xF1110006	Unexpected error during system start-up due to failure of stand-by time acquisition.	
0xF1110007	Unexpected error during system start-up due to failure of automatic logout time acquisition.	
0xF1110008	Unexpected error during system start-up due to confirmation failure of Windows service start-up completion required for the scanner operation	
0xF1110009	Unexpected error at initializing during system start-up	
0xF2010002	Thread error during mail transfer processing	Hardware Software
0xF2020002	Thread error during fax transfer	
0xF2040002	Thread error during saving to folder	
0xF3090000	Unexpected anomaly	Software
0x13060001	The device is not ready.	Hardware
0xF3090002	Special type of document is detected.	
0x13060003	Paper jam	
0x13060004	ADF cover or Endorser/Imprinter cover is open.	
0x00000005	No document remains.	
0x83070006	FB Motor fuse blown. (This error does not occur on this network scanner.)	
0x83070007	ADF Motor fuse blown.	
0x83070008	Heater fuse blown.	
0xF3090009	Lamp fuse blown.	
0xF309000A	Endorser/Imprinter fuse blown.	
0xF309000B	Driver error	
0x8307000C	Light intensity error	
0xF309000D	Internal target error	
0xF309000E	Endorser/Imprinter error	
0xF309000F	Invalid command	Hardware Software
0xF3090010	Unknown code in CDB field	
0xF3090011	Unsupported logical unit	
0xF3090012	Invalid parameter field	
0xF3090013	Combination error of Windows ID	
0xF3090014	Sequence error	

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Detail Code – (2)

Detail code	Cause	Category
0xF3090015	The scanner is reset.	Hardware
0xF3090016	Image transfer error	Hardware Software
0xF3090017	SCSI parity error	Hardware
0xF3090018	Source manager loading error	Software
0xF3090019	Source manager open error	
0x1306001A	Data source open error	
0xF309001B	Data source enable error	Hardware Software
0x1306001D	The connected device is not found.	
0xF309001E	Transfer mode is not supported.	Software
0xF309001F	Unsupported file format.	
0xF3090020	File cannot be created.	
0xF3090022	Data source does not support setting-screen-only mode.	
0xF3090023	Application window handle error	
0xF3090024	INE (Data source in use does not support the Device Online function)	
0xF3090025	ADF is not supported	Hardware
0xF3090026	Flatbed (FB) is not supported	
0x13060027	Feed error	
0x13060028	Eject error (or Clear Page function is not supported)	
0xF3090029	PRODUCT FAMILY is not "FUJITSU."	Software
0xF309002A	Detects cancel by user or error the scanner cannot continue scanning.	Hardware Software
0xF309002B	The driver is in use by the other application.	Software
0x1306002C	Insufficient memory	
0xF309002D	Insufficient disk space, or file write error	
0xF309002E	File in use	
0xF309002F	File archiving environmental error	
0xF3090030	No write authority to the file	
0xF3090031	File name not specified	
0xF3090032	Incorrect path specified	
0xF3090033	No write authority to the specified directory	
0xF3090034	Not NegotiateCapabilities event	
0xF3090035	Specified parameter error	
0x13060036	Multifeed/Doublefeed detected	Hardware
0xF3090037	IPC option error	
0xF3090038	ADF setup error	
0xF3090039	NTAREA (Imprinter (Endorser) printing area specification error)	
0xF309003A	ECK (Imprinter (Endorser) ink cartridge confirmation)	
0xF3090062	System environmental error	Software
0xF3090063	Internal error	
0xF40E0000	When combining automatic document size detection function and scanning area specification function, the specified scanning area is not correct compared to the document size. Or document detection sensor error	Hardware Software
0xF40D0001	System error during certifying	Software

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Detail Code – (3)

Detail code	Cause	Category
0xF4100001	System error during system file reading (when existing file is destroyed or there is not file)	
0xF4110001	System error during system file reading (when there is no corresponding error code in ErrorMessage.ini)	
0xF4110002	Unexpected incorrect parameter is specified.	
0xF4110003	Failed to set the keyboard input event hook	
0xF4110004	Failed to reset the keyboard input event hook	
0xF45F0000	Unexpected error while checking the access to network folder	
0xF4B30000	Failed to wait for thread termination	
0xF4B40000	The number of data reached maximum	
0xF4B50000	File restored by the master file	
0xF4B70000	Timeout after waiting for command termination	
0xF4B80000 ~ 0xF4B8FFFF	Failed to wait for command termination	
0xF4B90000 ~ 0xF4B9FFFF	Failed in command execution	
0xF4BA0000 ~ 0xF4BAFFFF	Failed in file size acquisition	
0xF4BB0000 ~ 0xF4BBFFFF	Failed in access token privilege setting	
0xF4BC0000 ~ 0xF4BCFFFF	Failed in privilege LUID acquisition	
0xF4BD0000 ~ 0xF4BDFFFF	Filed to open access token	Software
0xF4BE0000 ~ 0xF4BEFFFF	Filed to close access token	
0xF4BF0000 ~ 0xF4BFFFFF	Filed to initialize COM library	
0xF4C00000	Filed to tolerance checking	
0xF4C10000 ~ 0xF4C1FFFF	Filed to restore the file by master file	
0xF4C50000 ~ 0xF4C5FFFF	Filed to wait for the event	
0xF4C60000 ~ 0xF4C6FFFF	Failed to close the event	
0xF4C80000 ~ 0xF4C8FFFF	Failed in setting to put the event into signal status	
0xF4C90000 ~ 0xF4C9FFFF	Failed in event creation	
0xF4CA0000 ~ 0xF4CAFFFF	Failed in thread creation	
0xF4CC0000 ~ 0xF4CCFFFF	Failed to move file pointer	
0xF4CE0000 ~ 0xF4CEFFFF	Failed in file deletion	
0xF4CF0000 ~ 0xF4CFFFFF	Failed in file copy	

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08	June 4, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.				
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Detail Code – (4)

Detail code	Cause	Category
0xF4D10000 ～ 0xF4D1FFFF	Failed to release mutex ownership	Software
0xF4D20000 ～ 0xF4D2FFFF	Failed to request mutex ownership	
0xF4D30000 ～ 0xF4D3FFFF	Failed in mutex creation	
0xF4D80000 ～ 0xF4D8FFFF	Failed in key status acquisition	
0xF4DC0000 ～ 0xF4DCFFFF	Failed in stand-by	
0xF4DD0000 ～ 0xF4DDFFFF	Failed in shutdown or restart	Hardware Software
0xF4DE0000 ～ 0xF4DEFFFF	Failed to close the file mapping object	Software
0xF4DF0000 ～ 0xF4DFFFFF	Failed to cancel the file mapping	
0xF4E00000 ～ 0xF4E0FFFF	Failed in mapped file flashing	
0xF4E10000 ～ 0xF4E1FFFF	Failed in file mapping	
0xF4E20000 ～ 0xF4E2FFFF	Failed in file mapping object creation	
0xF4E30000 ～ 0xF4E3FFFF	Failed in file clearance	
0xF4E40000 ～ 0xF4E4FFFF	Failed in file flashing	
0xF4E50000 ～ 0xF4E5FFFF	Failed in file reading	
0xF4E60000 ～ 0xF4E6FFFF	Failed in file writing	
0xF4E90000 ～ 0xF4E9FFFF	Failed to open the file	
0xF4EA0000 ～ 0xF4EAFFFF	Failed to close the file	
0xF4ED0000	Failed to acquire information from INI file	
0xF4EE0000 ～ 0xF4EEFFFF	Failed to configure information to INI file	
0xF4EF0000	Information acquired from INI file or share file is not correct.	
0xF4F30000	Incorrect parameter specified in DLL	
0xF4F60000	No corresponding data	
0xF4F80000	Termination processing already executed.	
0xF4F90000	Starting process has already been executed.	
0xF4FA0000	Starting process is not executed	
0xF4FB0000	Cannot execute due to excess of maximum size	
0xF4FE0000	Incorrect parameter specified	

4-4　Troubleshooting from Irregular Device Response

Observe the device response at trouble, and use following table (Table 4-4) to troubleshoot. Start troubleshooting in numerical order from procedure number 1.

Before starting the troubleshooting, get the following information from your customer to distinguish whether the error is device-related or system-related. The following table is effective only for device-related troubles.

- Is the scanner operated correctly?
- Are the fault symptoms reproducible or persistent?

  (Check if the target scanner causes the same error under other systems.)

Table 4-4　Troubleshooting from irregular device response (1)

	Symptom	Troubleshooting procedure	Related Section
Start/shutdown of the device	Power is not turned on. (Operating Window does not appear on LCD)	1. Confirm if AC CORDSET and AC ADAPTER are connected correctly. If correct, go to step 2.	Section 2-2-2
		2. Press Startup button again and confirm if LED in Startup button lights. If it lights, go to step 3. If it does not light, go to step 4.	Section 2-2-2
		3. Replace LCD and confirm if the trouble is removed. If not, go to step 5.	Section 5-15
		4. Replace AC CORDSET and confirm if the trouble is removed. If not, go to step 5.	Section 2-2-2
		5. Replace DC-DC MODULE and confirm if the trouble is removed. If not, go to step 6.	Section 5-24
		6. Replace MB UNIT and confirm if the trouble is removed. If not, go to step 7.	Section 5-25
		7. Replace LCD UNIT and confirm if the trouble is removed. If not, go to step 8.	Section 5-14
		8. Note that data may remain on HDD unit.	Section 5-22
	Device is rebooted or hung up during initial processing. (Operating System does not appear) Device hangs up during operation.	1. Confirm if AC CORDSET and AC ADAPTER are connected correctly. If correct, go to step 2.	Section 2-2-2
		2. Replace AC CORDSET and confirm if the trouble is removed. If not, go to step 3.	Section 2-2-2
		3. Replace HDD UNIT and confirm if the trouble is removed. If not, go to step 4.	Section 5-22
		4. Replace MB UNIT and confirm if the trouble is removed.	Section 5-25
	Device hangs up during scanning.	1. Confirm if AC CORDSET and AC ADAPTER are connected correctly. If correct, go to step 2.	Section 2-2-2
		2. Remove the scanner from the device and try testing of paper feeding. If any trouble is not found, go to step 3.	Section 6-1-2, paper feeding test, sensor test
		3. Replace AC CORDSET and confirm if the trouble is removed. If not, go to step 4.	Section 2-2-2
		4. Replace HDD UNIT and confirm if the trouble is removed. If not, go to step 5.	Section 5-22
		5. Replace MB UNIT.	Section 5-25

Table 4-4   Troubleshooting from irregular device response (2)   (Continued)

	Symptom	Troubleshooting procedure	Related Section
Start/shutdown of the device	- Cannot shut down - Does not go into sleep mode. - Stop error or blue back window appears.	1. Replace HDD UNIT and confirm if the trouble is removed. If not, go to step 2.	Section 5-22
		2. Replace MB UNIT.	Section 5-25
	Does not recover from Sleep mode. (even by paper setting on ADF or ADF open)	1. Confirm if AC cable between scanner and PC box of the device is connected correctly. If correct, go to step 2.	Section 5-6
		2. Replace AC cable between scanner and PC box of the device. Confirm if the trouble is removed. If not, go to step 3.	Section 5-6
		3. Confirm if USB cable between scanner and PC box of the device is connected correctly. If correct, go to step 4.	Section 5-6 #13, 18 in Section 1-1-4 for USB connector position.
		4. Replace USB cable between scanner and PC box of the device. Confirm if the trouble is removed. If not, go to step 5.	Section 5-6
		5. Remove the scanner from the device and try testing of paper feeding. If any trouble is not found, go to step 6.	Section 6-1-2, paper feeding test, sensor test
		6. Replace HDD UNIT and confirm if the trouble is removed. If not, go to step 7.	Section 5-22
		7. Replace MB UNIT.	Section 5-25
	Does not recover from Sleep mode. (even by pressing Startup button)	1. Confirm if AC CORDSET and AC ADAPTER are connected correctly. If correct, go to step 2.	Section 2-2-2
		2. Press [Esc] on keyboard to log out. Press Alt +[F4] to shut down. Then press Startup button and confirm if LED in Startup button lights. If it lights, go to step 3. If it does not light, go to step 4.	Section 7-3-2
		3. Replace LCD UNIT and confirm if the trouble is removed. If not, go to step 5.	Section 5-14
		4. Replace AC CABLE and confirm if the trouble is removed. If not, go to step 5.	Section 2-2-2
		5. Replace HDD UNIT and confirm if the trouble is removed. If not, go to step 6.	Section 5-22
		6. Replace MB UNIT.	Section 5-25
	Device does not return from sleep mode. (Even if operated by keyboard)	1. Confirm if the cable for KB is connected correctly. If correct, go to step 2.	Section 5-18
		2. Replace KB and confirm if the trouble is removed. If not, go to step 3.	Section 5-19
		3. Replace HDD UNIT and confirm if the trouble is removed. If not, go to step 4.	Section 5-22
		4. Replace MB UNIT.	Section 5-25

Table 4-4   Troubleshooting from irregular device response (3)   (Continued)

	Symptom	Troubleshooting procedure	Related Section
Using/Setting	Touch panel does not function.	1. Run calibration of touch panel and confirm if the trouble is removed. If not, go to step 2.	Section 6-3-6
		2. Replace LCD UNIT and confirm if the trouble is removed. If not, go to step 3.	Section 5-14
		3. Replace MB UNIT and confirm if the trouble is removed. If not, go to step 4.	Section 5-25
		4. Replace the HDD UNIT.	Section 5-22
	Keyboard does not function.	1. Confirm if the cable for KB is connected correctly. If correct, go to step 2.	Section 5-19
		2. Replace KB and confirm if the trouble is removed. If not, go to step 3.	Section 5-19
		3. Replace MB UNIT and confirm if the trouble is removed. If not, go to step 4.	Section 5-25
		4. Replace the HDD UNIT.	Section 5-22
	Cannot communicate with LAN.	1. If the device information or log information cannot be downloaded, check the IE correction information. If any trouble is not found in the correction information, go to step 2.	Section 2-2-2
		2. Check LAN communication. If this device seems to be defective, go to step 3.	Section 6-3-4
		3. Replace MB UNIT and confirm if the trouble is removed. If not, go to step 4.	Section 5-25
		4. Replace the HDD UNIT.	Section 5-22
	LCD is dark, not clear.	1. Check LCD. If the LCD seems to be defective, go to step 2.	Section 6-3-2-3
		2. Replace LCD UNIT and confirm if the trouble is removed. If not, go to step 3.	Section 5-15
		3. Replace MB UNIT and confirm if the trouble is removed. If not, go to step 4.	Section 5-25
		4. Replace the HDD UNIT.	Section 5-22
Scanning	Scanning does not start.	1. Is the [SCAN] button displayed on the screen? If not, the [SCAN] button on the Operator panel does not respond.	Check that the [SCAN] button is displayed on the screen.
		2. Press Scan button on the device or LCD again, and confirm if the trouble is removed. If not, go to step 3.	Press Scan button.
		3. Load the document correctly on ADF and confirm if the trouble is removed. If not, go to step 4.	Section 7-4-1
		4. Close the ADF until it clicks and confirm if the trouble is removed. If not, go to step 5.	Close ADF completely.
		5. Confirm if AC cable between scanner and PC box of the device is connected correctly. If correct, go to step 6.	Section 2-2-2
		6. Replace AC cable between scanner and PC box of the device. Confirm if the trouble is removed. If not, go to step 7.	Section 2-2-2
		7. Confirm if USB cable between scanner and PC box of the device is connected correctly. If correct, go to step 8.	Section 2-2-2
		8. Replace USB cable between scanner and PC box of the device. Confirm if the trouble is removed. If not, go to step 9.	Section 2-2-2
		9. Remove the scanner from the device and try testing of paper feeding. If any trouble is not found, go to step 10.	Section 6-1-2, paper feeding test, sensor test

Table 4-4   Troubleshooting from irregular device response (4)   (Continued)

		Symptom	Troubleshooting procedure	Related Section
Scanning		Scanning does not start. (Cont'd)	10. Check Scan button operation. If the Scan button does not operate correctly, replace LCD UNIT. If it operates correctly, go to step 11.	Section 6-3-6 Section 5-14
			11. Replace HDD UNIT and confirm if the trouble is removed. If not, go to step 12.	Section 5-22
			12. Replace MB UNIT.	Section 5-25
		Scanned image position incorrect or distorted	1. Is the document loaded correctly on ADF? If Yes, go to step 2.	Section 7-4-1 for correct document loading
			2. Check if the USB cable to the scanner connected correctly. If Yes, go to step 3.	Section 2-2-2
			3. Are the cables between Control PCA and Optical Unit damaged or connected correctly? If Yes, go to step 4.	Section 5-11-6 for ADF front scanning Section 5-10-4 for ADF backside scanning
			4. Replace Optical Unit and see if the error is resolved. If not resolved, go to step 5.	Section 5-11-6 for ADF front scanning Section 5-10-4 for ADF backside scanning
			5. Replace Control PCA.	Section 5-12
		Scanned image is not clear.	1. Check if the document satisfies the paper specification. If Yes, go to step 2.	Section 1-1-6
			2. Clean feed rollers and idler rollers and check whether the error is resolved. If not resolved, go to step 3.	Section 7-5-1
			3. Is the Optical Unit or Lamp clean? If not resolved, go to step 4.	Section 5-3-1 for front side optical unit cleaning and checking. Section 5-3-3 for backside optical unit cleaning and checking.
			4. Are the cables between Control PCA and Optical Unit damaged or connected correctly? If there is no problem, go to step 5.	
			5. Replace Optical Unit and see if the error is resolved. If not resolved, go to step 6.	Section 5-11-6 for ADF front scanning Section 5-10-4 for ADF backside scanning
			6. Replace Control PCA.	Section 5-12
		Excessive jitter on the image Jitter ABCDEFG ABCDEFG	1. Does the document satisfy the paper specification? If Yes, go to step 2.	Section 1-1-6
			2. Clean feed rollers and idler roller and see if the error is resolved. If not resolved, go to step 3.	Section 7-5-1
			3. Replace Pick roller and Pad ASSY and see if the error is resolved. If not resolved, go to step 4.	Check the consumable counter in Section 6-1-6 or 6-3-8. If the counter exceeds the life, replace Pick roller or Pad ASSY (Section 7-6-3, 7-6-4).
			4. Check if the belt tension is appropriate, and if the Guide A ASSY, Guide P ASSY (Sheet Guide), Upper cover, and Rear cover are installed correctly. If Yes, go to step 5.	Belt tension: Section 5-10-3 Section 5-11-1 for Guide A ASSY Section 5-9 for Guide P ASSY, Rear cover Section 5-10-2 for Upper cover
			5. Are the cables between Control PCA and ADF Motor damaged? Or are the connectors connected correctly? If there is no problem, go to step 6.	Section 5-10-3
			6. Replace ADF Motor and see if the error is resolved. If not resolved, go to step 7.	Section 5-10-3

Table 4-4   Troubleshooting from irregular device response (5)   (Continued)

	Symptom	Troubleshooting procedure	Related Section
Scanning	Excessive jitter on the image (Cont'd)	7. Replace Upper Unit and see if the error is resolved. If not resolved, go to step 8.	Section 5-9
		8. Replace Base Unit.	Section 5-9
	Image misaligned	1. Check the items listed in the right column. If Yes, go to step 2.	- Does the document satisfy the paper specifications described in Section 1-1-6? - Is the offset setting described in Section 5-3-5 correct?
		2. Clean feed rollers and idler rollers and see if the error is resolved. If not resolved, go to step 3.	Section 7-5-1
		3. Adjust the offset by Maintenance mode. If not resolved, go to step 4.	Section 6-1-4
		4. Is Optical Unit installed correctly? If Yes, go to step 5	Section 5-11-6 for ADF front scanning Section 5-10-4 for ADF backside scanning
		5. When the backside image is misaligned, replace Upper Unit and see if the error is resolved. If not resolved, go to step 6.	Section5-9
		6. When the front side image is misaligned, replace Base Unit.	Section 5-9
	Scan magnification factor abnormal	1. Check if the vertical magnification is set correctly. If Yes, go to step 2.	Section 6-1-3
		2. Adjust the magnification in Maintenance mode. If horizontal (Main scanning) magnification is abnormal, go to step 7 If vertical (Sub-scanning) magnification is abnormal, go to step 3.	Section 6-1-3
		3. Clean feed rollers roller and idler rollers and see if the error is resolved. If not resolved, go to step 4.	Section 7-5-1
		4. Does any foreign object get inside Upper Unit and disturb paper feeding by feed rollers? If not, go to step 5.	Open the ADF and check Upper Unit gear.
		5. Is ADF Motor belt loose? If not, go to step 6.	Section 5-10-3
		6. Replace ADF Motor and see whether the error is resolved. If not resolved, go to step 7.	Section 5-10-3
		7. Is Optical Unit installed correctly? If Yes, go to step 8.	Section 5-11-6 for front side image Section 5-10-4 for backside image
		8. Replace Optical Unit.	
	Vertical streaks on the image	1. Check if the scan setting is specified correctly. If there is no problem, go to step 2.	
		2. Clean glass in the ADF and see if the error is resolved. If not resolved, go to step 3.	Section 7-5-1
		3. When the error occurs on ADF front, clean inside of the glass of Upper ASSY. When the error occurs on ADF back, clean inside of the glass of Dust cover ASSY. If the error is not resolved, go to step 4.	Section 5-3-4 for cleaning Upper ASSY glass. Section 5-3-2 for cleaning Dust cover ASSY
		4. Is Optical Unit dirty? Are cables damaged? Are connectors connected correctly? If the error is not resolved, go to step 5.	Section 5-3-1 for front side optical unit cleaning and checking. Section 5-3-3 for backside optical unit cleaning and checking.
		5. Replace Optical Unit and see if the error is resolved. If not resolved, go to step 6.	Section 5-11-6 for front side image Section 5-10-4 for backside image
		6. Replace Control PCA.	Section 5-12

Table 4-4   Troubleshooting from irregular device response (6)   (Continued)

	Symptom	Troubleshooting procedure	Related Section
Scanning	Shade appears at the top of the scanned image	1. Are feed rollers clean? If Yes, go to step 2.	Clean feed rollers. Section 7-5-1
		2. Adjust offset of the image.	Section 6-1-4.
	Frequent multifeed	Go to Table 4-5-3.	Section 4-5-3
	Paper is not fed. Paper jam occurs.	Go to Table 4-5-1.	Section 4-5-1
	Paper empty mis-detection	1. Does the same symptom occur after turning OFF and ON the scanner? If Yes, go to step 2.	Press power button of the scanner for more than 2 seconds to turn it OFF, and after more than 2 seconds elapse, press the power button to turn the scanner ON.
		2. Is there a slip of paper left near Sensor EM? If No, go to step 3.	Open the ADF and check inside visually.
		3. Check the performance of Sensor EM.	Conduct Maintenance mode (refer to Section 6-1-2) to see if the sensor works properly. If the error still occurs, confirm that the cable is correctly connected then replace the Sensor EM. (Refer to Section 5-10-7)

4-5 Troubleshooting for Scanner-related Case

When the scanner looks defective, remove the scanner from the device and test the scanner operation by referring to "(1) Scanner operation test" below.

When an error occurs, troubleshoot the error to trace the cause by referring to "(2) Troubleshooting the scanner section" below.

(1) Scanner operation test

1. Referring to Section 5-6 "Removing the scanner section," remove the scanner from the device.

2. Referring to Section 6-1 "Maintenance Mode," activate the Maintenance mode of the scanner, and then run the paper feeding test and sensor test. If some errors/alarms occur at power on or during scanning, go to "(2) Troubleshooting the scanner section."

(2) Troubleshooting the scanner section

When any temporary error or scanner alarm occurs, find the error numbers from the following list. Refer to the reference section to trace the cause.

Table 4-5 shows the examples of the troubleshooting.

Table 4-5 Scanner errors/alarms display and reference section

Category	Error code	Error/alarm description	Reference Section to diagnose
Temporary Error	U1	Paper jam	4-5-1
	U4	Cover open	4-5-2
	U2	Multi feed	4-5-3
Scanner Alarm	E2	Optical alarm for ADF front side scanning	4-5-4
	E3	Optical alarm for ADF backside scanning	
	E4	Motor alarm	4-5-5
	E6	Operator panel alarm	4-5-6
	E7	EEPROM alarm	4-5-7
	E9	Image memory alarm	4-5-8
	Ec	RAM alarm	4-5-9
	Ed	SPC alarm or Image transfer error	4-5-10
	EF	Background changeover unit failure	4-5-12
	F	ROM sum check alarm	4-5-11

4-5-1 Frequent U1 error in scanner display (paper jam)

This error is detected when one of the followings occurs:

1) A document does not reach the TOP sensor while the scanner has transported the document about 250 mm to pick. (The scanner performs retry operation.)

2) The trailing edge of a document does not reach the TOP sensor after the scanner transports the document by the length (L) below. (The document may have slipped on the rollers)

Scan condition	Transported length (L) before jam
ADF fixed size scanning	Approximately 450 mm
Long paper scanning	1.2 times of the specified value

Table 4-5-1

No.	Check items	How/where to check
1	Does the document satisfy paper specification?	Refer to Section 1-1-6 for paper specification.
2	Have the documents been jogged?	• Align the edge of documents for stable paper feeding. • Remove documents with crease or dog-ear. • Scanning different width of documents may cause skew and result in paper jam.
3	Clean rollers in ADF and see if the error is resolved.	Refer to Section 7-5-1 for rollers in ADF.
4	Replace Pick roller and Pad ASSY and see if the error is resolved.	Check the consumable counter described in Section 6-3-8 or in Section 6-1-6 maintenance mode #5. When the counter exceeds the values shown in Section 7-6-1, replace it.
5	Is the Pick roller rotating?	Refer to Section 6-1-2 for checking. If the Pick roller is not rotating, check the clutch cable connection (Section 5-11-8).
6	Check on/off action of TOP sensor.	Refer to Section 6-1-2 for checking.
7	Check on/off action of Cover Open Sensor.	Refer to Section 6-1-2 for checking.
8	Replace the Scanner Control PCA.	Refer to Section 5-12.

4-5-2 U4 error in scanner display (Cover open)

Table 4-5-2

No.	Check items	How/where to check
1	Does the same symptom occur after turning OFF and ON the scanner?	Press power button of the scanner for more than 2 seconds to turn it OFF, and after more than 2 seconds elapse, press the power button to turn the scanner ON.
2	Is there a slip of paper left near Cover Open Sensor?	Open the ADF and check inside visually.
3	Check on/off action of Cover Open Sensor.	Conduct Scanner maintenance mode (refer to Section 6-1-2) to see if the sensor works properly. If the error still occurs, confirm that the cable is correctly connected. If the sensor is damaged, replace the Base Unit (Refer to Section 5-9).

4-5-3 Frequent "U2: multifeed error"

Two methods are used to detect this error, either/both of which can be selected by the command. Both methods are set to OFF at default.

1) Multi feed detection by paper length

Using the TOP sensor, the scanner measures the length of the document transported for the first time after hopper empty error. The measured length is used as a standard length to be compared with the length of subsequent documents to be scanned.

If the second document is shorter than the first one, it means the multi feed occurred at the first document.

The scanner detects a multi feed when the detected paper length is larger or smaller than the standard value by ±10mm, ±15mm or ±20mm which is specified by the command. Immediately after a multi feed error is detected, the feeding operation stops.
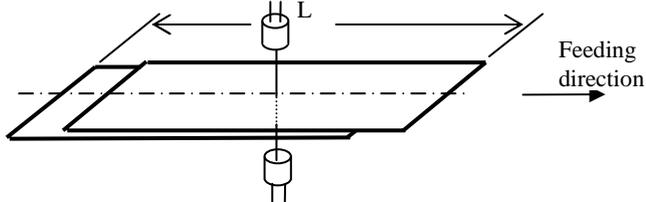
L – paper length > ±10, ±15, ±20
(selectable)

2) Multifeed detection by ultrasonic sensor (US Sensors)

The ultrasonic sensors (US Sensor, see Section 1-2) are located above and below the document transporting section. The ultrasonic wave emitted from the transmitter goes through the document and is read at the receiver. When two sheets exist between the ultrasonic sensors, the output at the receiver is lower compared to when one sheet exists. When sensor output is consistently lower by 3mm than the specified slice level (Vs), a multi feed is detected. (See Section 1-1-7 for document condition.)

The specified slice level needs to be set by referring to Section 6-1-2 when the US Sensors are replaced.
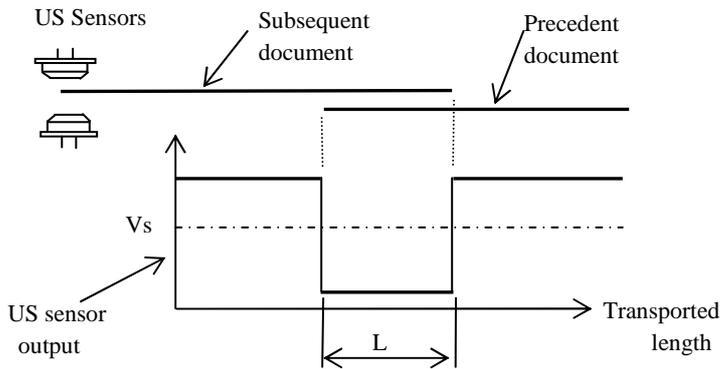
> 3 mm: Double feed

Table 4-5-3

No.	Check items	How/where to check
1	Do the documents satisfy paper specification?	Refer to Section 1-1-6 and 1-1-7 for paper specification, paying attention to the following points: • Is there any perforation in the center of documents?
2	Clean ADF unit.	Refer to Section 7-5-1 for cleaning cycle and method. Clean pick roller, Pad ASSY and around US Sensor with care.
3	Replace Pick roller and Pad ASSY and see if the error is resolved.	Check the consumable counter described in Section 6-3-8 or Section 6-1-6. When the counter exceeds the values shown in Section 7-6-1, replace Pick roller or Pad ASSY. If the error still occurs, confirm that the cable is correctly connected then replace the US sensors. (Refer to Sections 5-10-6, 5-11-3)

4-5-4 "E2 or E3: Optical alarm"

This alarm occurs if the gain adjustment of the CCD amplifier does not succeed at initial or during scanning calibration.
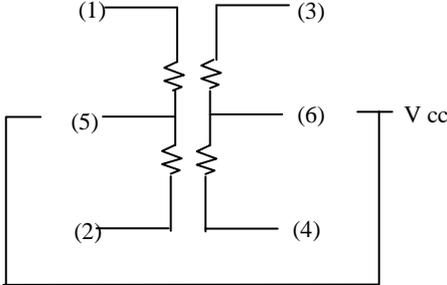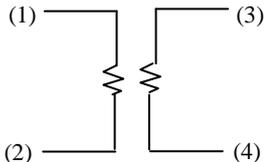
Table 4-5-4

No.	Check items	How/where to check
1	Does the same symptom occur after turning OFF and ON the scanner?	Press power button of the scanner for more than 2 seconds to turn it OFF, and after more than 2 seconds elapse, press the power button to turn the scanner ON.
2	Is the white reference in the reading position dirty?	Open the ADF and clean the white reference and the glass. (Refer to Section 7-5-1.)
3	Is the Lamp ON? Are the cables damaged? Are the connectors connected correctly?	Turn the scanner ON again. Open the ADF and press Cover Open Sensor to see if the Lamp lights. If not, the error is caused by the defective Lamp.
4	Is the Optical Unit dirty? Are the cables damaged? Are the connectors connected correctly?	E2 (ADF front): Refer to Section 5-3-1 for cleaning and checking. E3 (ADF back): Refer to Section 5-3-3 for cleaning and checking.
5	When the error is E2 (ADF front), check if inside of the glass for Dust cover is dirty.	Clean inside of the glass of the Dust cover by following the procedure described in Section 5-3-2.
6	When the error is E3 (ADF back), check if inside of the glass for Upper ASSY is dirty.	Clean inside of the glass of the Upper ASSY by following the procedure described in Section 5-3-4.
7	Replace Optical Unit and see if the error is resolved.	E2 (ADF front): See Section 5-11-6. E3 (ADF back): See Section 5-10-4.

NewFEIMAS (vertical left margin)

4-5-5 "E4: Motor alarm"

This alarm occurs immediately after the motor fuse is blown. For maintenance, the whole unit of the Control PCA needs replacing because the fuse is soldered to the Control PCA.

Table 4-5-5

No.	Check items	How/where to check
1	Does the same symptom occur after turning OFF and ON the scanner?	Press power button of the scanner for more than 2 seconds to turn it OFF, and after more than 2 seconds elapse, press the power button to turn the scanner ON.
2	Does any foreign object get inside the Control PCA?	Take out the Control PCA for checking (Refer to Section 5-12).
3	Are the cables between Control PCA and motors (ADF motor or BW motor) damaged? Or, are the connectors connected correctly?	Refer to Section 5-10-3 for ADF motor cable checking. Refer to Section 5-11-7 for BW motor cable checking.
4	Is the coil resistance of the motor normal?	Remove the motor cable to check the coil resistance between the following pins of the motor. **ADF Motor** (5)Black-(1)Red, (5)Black-(2)Yellow approx.4.7 Ω (6)White-(3)Orange, (6)White-(4)Blue approx.4.7 Ω (1)Red-(2)Yellow, (3)Orange-(4)Blue approx.9.4 Ω Other matches Infinity **BW Motor** (1)Black-(2)Brown approx.30 Ω ± 10% (3)Yellow-(4)Orange approx.30 Ω ± 10% Other matches Infinity Replace the motor if the resistance is abnormal. (Refer to Section 5-10-3, 5-11-7)
5	Replace Control PCA.	Refer to Section 5-12 for replacement.

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4-5-6 "E6: Operator panel alarm"

When replacing the Panel PCA, the EEPROM data shall be moved to the Control PCA and some information is written to the EEPROM in Panel PCA that no data exists in it. If the EEPROM data is no restored in replaced new Panel PCA, this alarm occurs as there is no data in EEPROM on new Panel PCA.

Table 4-5-6

No.	Check items	How/where to check
1	Does the same symptom occur after turning OFF and ON the scanner?	Press power button of the scanner for more than 2 seconds to turn it OFF, and after more than 2 seconds elapse, press the power button to turn the scanner ON.
2	It seems the installed Panel PCA has been used in other scanner before and it may be faulty one. Replace it with the new Panel PCA.	Replace the Panel PCA with new one after saving the EEPROM data. (See Section 6-2) Then conduct Maintenance mode #7 by referring to Section 6-1-8.

4-5-7 "E7: EEPROM alarm"

This alarm is detected by comparing data in EEPROM during initial processing at power-on.

Table 4-5-7

No.	Check items	How/where to check
1	Does the same symptom occur after turning OFF and ON the scanner?	Press power button of the scanner for more than 2 seconds to turn it OFF, and after more than 2 seconds elapse, press the power button to turn the scanner ON.
2	Replace the Panel PCA and see if the error is resolved.	Refer to Section 5-10-1 for replacement.
3	Replace the Control PCA and see if the error is resolved.	Refer to Section 5-12 for replacement.

4-5-8 "E9: Image memory alarm"

This alarm is detected by checking read/write and bus only while initial processing immediately after power-on.

Table 4-5-8

No.	Check items	How/where to check
1	Does the same symptom occur after turning OFF and ON the scanner?	Press power button of the scanner for more than 2 seconds to turn it OFF, and after more than 2 seconds elapse, press the power button to turn the scanner ON.
2	Replace the Control PCA and see if the error is resolved.	Refer to Section 5-12 for replacement.

4-5-9 "Ec: RAM alarm"

This alarm is detected by checking read/write and bus.

Table 4-5-9

No.	Check items	How/where to check
1	Does the same symptom occur after turning OFF and ON the scanner?	Press power button of the scanner for more than 2 seconds to turn it OFF, and after more than 2 seconds elapse, press the power button to turn the scanner ON.
2	Replace the Control PCA and see if the error is resolved.	Refer to Section 5-12 for replacement.

4-5-10 "Ed: SPC alarm / Image transfer error"
This alarm is detected by checking read/write and bus.

Table 4-5-10

No.	Check items	How/where to check
1	Does the same symptom occur after turning OFF and ON the scanner?	Press power button of the scanner for more than 2 seconds to turn it OFF, and after more than 2 seconds elapse, press the power button to turn the scanner ON.
2	Replace the Control PCA and see if the error is resolved.	Refer to Section 5-12 for replacement.

4-5-11 "F: ROM sum check alarm"

Table 4-5-11

No.	Check items	How/where to check
1	Does the same symptom occur after turning OFF and ON the scanner?	Press power button of the scanner for more than 2 seconds to turn it OFF, and after more than 2 seconds elapse, press the power button to turn the scanner ON.
2	Replace the Control PCA and see if the error is resolved.	Refer to Section 5-12 for replacement.

4-5-12 "EF: Background changeover unit failure"
This is detected in initial checking at power on.

Table 4-5-12

No.	Check items	How/where to check
1	Does the same symptom occur after turning OFF and ON the scanner?	Press power button of the scanner for more than 2 seconds to turn it OFF, and after more than 2 seconds elapse, press the power button to turn the scanner ON.
2	Are the cables between the Control PCA and the BW Motor damaged? Or are the connectors connected correctly?	Confirm the position of the BW Motor by referring to Section 5-11-7 and check the cables.
3	Is the CCD cable F or B damaged? Or are the connectors connected correctly?	Refer to Section 5-10-4 for the CCD cable B. Refer to Section 5-11-6 for the CCD cable F.
4	Replace the Control PCA and see if the error is resolved.	Refer to Section 5-12 for replacement procedure.
5	Replace the Optical Unit.	Refer to Section 5-11-6 for replacement procedure of the lower Optical Unit. Refer to Section 5-10-4 for replacement procedure of the upper Optical Unit.

Chapter 5   DISASSEMBLY / ASSEMBLY

This chapter describes how to replace the maintenance parts, and clean the scanner to ensure the normal operations.   When assembling the maintenance parts, conduct necessary cleaning when instructed in this manual.

5-1   For the safety operation

Please read this page carefully before disassembling or assembling.

⚠ **Warning**   **Electric shock**

Before disassembling and assembling, turn the power switch off, and unplug the AC power source from the outlet.   If you do not do this, an electric shock may occur.

⚠ **CAUTION**   **Injury**

Be careful not to get your fingers, hair, clothes or accessories caught in a moving part.
It may cause injury.

Machine damage

Static Electricity may cause the damage to the scanner.
When repairing the scanner, wear a wrist strap to avoid ESD.

Notes when cleaning

When cleaning the scanner, be careful not to allow foreign matter, such as dried ink and toner, to fall inside the scanner.

How to unlock Plastic hooks

Many parts of the scanner are held in place with plastic hooks.
When removing parts that are held in place with hooks, be very careful not to break the hooks.
Pull out the latch to unlock, then pull up on the assembly to remove.
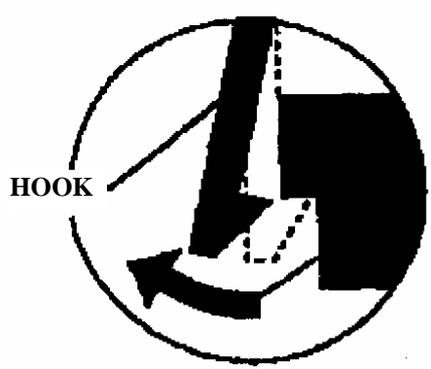
Do not use excessive force when removing parts held in place with hooks.

HOOK

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5-2   Maintenance

This section describes about basic maintenance service.

5-2-1   Periodic maintenance

This scanner is recommended to have periodic maintenance according to the following cycle.

Item	Maintenance cycle
Periodic maintenance	Every 12 months

At maintenance, clean the following if they are dirty.

- Optical Unit (Sections 5-3-1, 5-3-3)
- Glass of Dust Cover ASSY (Section 5-3-2)
- Glass of Upper ASSY (Section 5–3-4)

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5-3 Cleaning

5-3-1 Cleaning Optical Unit (for front side)

Follow the procedure below to clean the Optical Unit.

1) Remove the Optical Unit. (Refer to Section 5-11-6)
2) Clean the mirrors (especially the first mirror shown below) inside the Optical Unit with a dry lint-free cloth or a blower brush.
3) After cleaning, install the Optical Unit. (Refer to Section 5-11-6)

Second mirror   Third mirror

First mirror
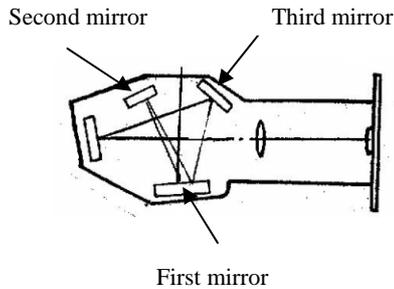
✎ **NOTICE**

1. Do not use any cleaning liquid such as alcohol that may smear the mirrors when cleaning. Use a dry cloth or a blower brush.
2. Reflecting sides of the mirrors (aluminum vapor deposition part) face inside of the Optical Unit.
3. Conduct the procedure under dust-free environment.

5-3-2 Cleaning glass of Dust Cover ASSY (lower glass)

Follow the procedure below to clean the glass of Dust Cover ASSY.

1) Remove the Dust Cover ASSY. (Refer to the steps 1) to 6) in Section 5-11-5). No need to remove the idler rollers.
2) Clean inside of the glass of the Dust Cover ASSY with a lint-free cloth moistened with alcohol. Be sure that no fabric from the cloth remains on the glass.
3) After cleaning, install the Dust Cover ASSY. (Refer to Section 5-11-5)

✎ **NOTICE**

1. Take care not to damage the Lamp.
2. Conduct the procedure under dust-free environment.

5-3-3 Cleaning Optical Unit (for backside)

Follow the procedure below to clean the Optical Unit.

1) Remove the Optical Unit. (Refer to Section 5-10-4)
2) Clean the mirrors (especially the second and third mirrors shown in Section 5-3-1) inside the Optical Unit with a dry lint-free cloth or a blower brush.   Be sure that no fabric from the cloth remains on the mirror.
3) After cleaning, install the Optical Unit. (Refer to Section 5-10-4)

⚠ NOTICE

1. Do not use any cleaning liquid such as alcohol that may smear the mirrors. Use a dry cloth or a blower brush.
2. Reflecting sides of the mirrors (aluminum vapor deposition part) face inside of the Optical Unit.
3. Conduct the procedure under dust-free environment.

5-3-4 Cleaning glass of Upper ASSY (upper glass)

Follow the procedure below to clean the glass of Upper ASSY.

1) Remove the Optical Unit. (Refer to the steps 1) to 3) in Section 5-10-4). No need to remove the Lamp sensors.
2) Clean inside of the glass of the Upper ASSY with a lint-free cloth moistened with alcohol.
3) After cleaning, install the removed parts. (Refer to Section 5-10-8)

⚠ NOTICE

Conduct the procedure under dust-free environment.

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5-4　Maintenance tool

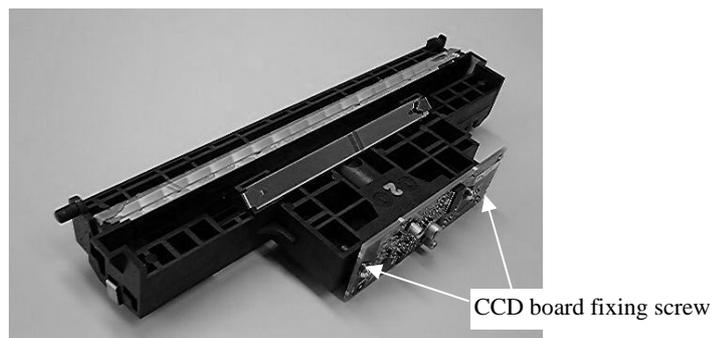Special tools to clean this scanner are shown in Table 5-4.

Table 5-4

No.	Tools	When to use	Remarks
1	Philips screwdriver	-	For M3, M4 screws
2	Small Philips screwdriver	-	For M2.5 screws
3	Spring balance	Belt tension adjustment	Max 1 kg force
4	Alcohol	Cleaning	Ethyl alcohol or isopropyl alcohol
5	Blower brush	Cleaning mirror	
6	Small flat-blade screwdriver	-	
7	White level adjustment sheet	White level adjustment (See Section 6-1-5)	Description: TEST SHEET Part number: PA03277-Y123 Please purchase this sheet prior to maintenance.
8	Magnification/Offset adjustment sheet	Magnification/Offset adjustment (See Sections 6-1-3, 6-1-4)	Required for offset or magnification adjustment. See figure 6-1-3 (Section 6-1-3) and prepare the sheet in advance, if you do not have the sheet.

5-5　Parts that should not be Disassembled

NOTICE

The following unit is adjusted at shipment from factory. Do not attempt to disassemble nor loose any part of this unit. Doing so may affect the scanner function.

[Optical Unit]

CCD board fixing screw

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5-6   Removing the Scanner Section

1)   - From left and right, press the back cover at the rear of the scanner to remove.

- Remove the AC adapter connector, LAN connector, USB cable and AC connector.

- Remove four screws (circles below) on the Rear Panel bracket, and then remove the bracket.
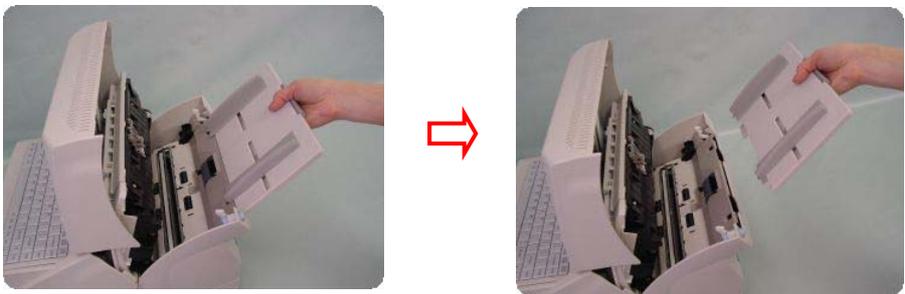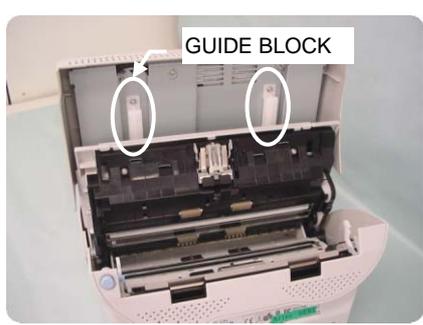
ADF
Button

Back cover

USB cable   AC connector

AC adapter connector   LAN connector

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2)   Open the LCD cover (ADF cover) by pushing the ADF release button and turning the LCD cover (ADF cover) to the front.

> Note: Be careful! The LCD cover may close and may pinch your finger.
> Do not press the Touch panel. Doing so may damage the Touch panel.

ADF release button

3)   Pull the ADF paper chute obliquely upward (toward rear of the scanner) to remove.

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4) Remove two screws of two Guide Blocks.

Note: Do not drop the screws inside of the scanner.

5) Raising the rear of the scanner, remove two ADF guide blocks from four mounting holes at the back of the LCD UNIT.

GUIDE BLOCK

Raising two Guide Blocks upward, pull it to the front.

Four mounting holes at back of LCD UNIT
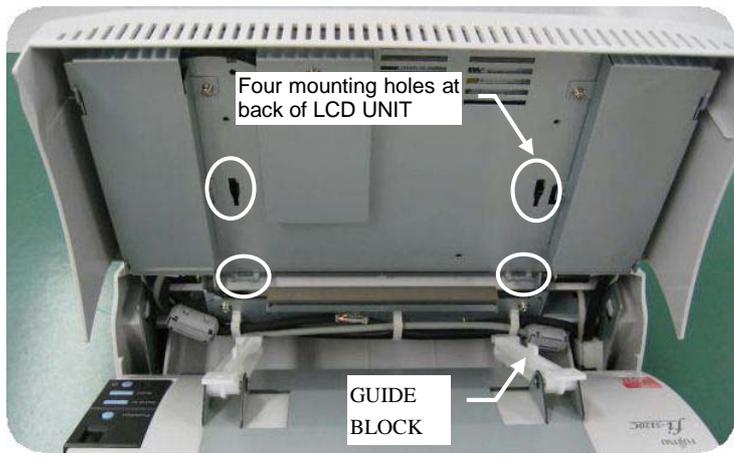
GUIDE BLOCK

After removing two Guide Blocks, pull out the scanner section to the back.

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5-7 CHUTE UNIT (ADF paper chute)

⚠ NOTICE

Refer to Section 3-18 for the part number of the replacement part.

<Removal>

Pull the CHUTE UNIT (ADF paper chute) obliquely upward of the back of the scanner to remove.

<Installation>

Insert the tabs of the CHUTE UNIT (ADF paper chute) into the holes on the back of the scanner. Be sure to face up the side guides.

Tab

CHUTE UNIT
(ADF paper chute)

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5-8 PCB UNIT

<Removal>

1) Remove the CHUTE UNIT (ADF paper chute) referring to Section 5-7.

2) Remove four screws from the bottom of the BASE UNIT, and open the PCB UNIT as shown in the following photo, taking care not to pull the cables inside by force.

Screws
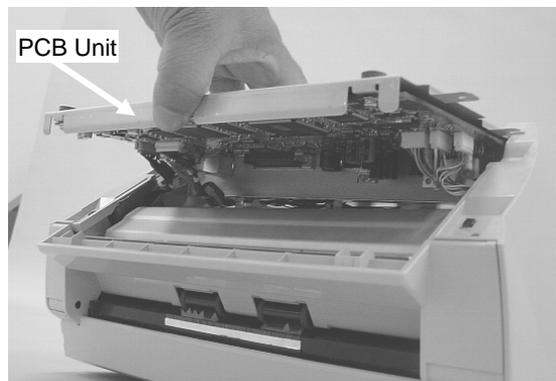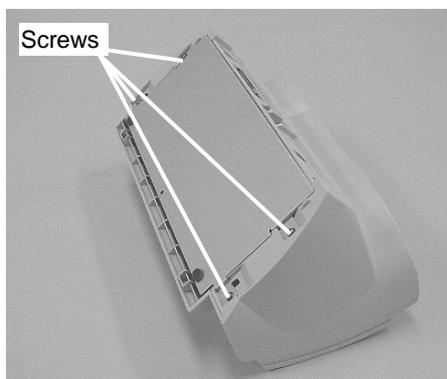
PCB Unit

3) Disconnect seven connectors, which are connected to the PCB UNIT, and remove the PCB UNIT. To replace the CONTROL PCA, go to Section 5-12.

<Installation>
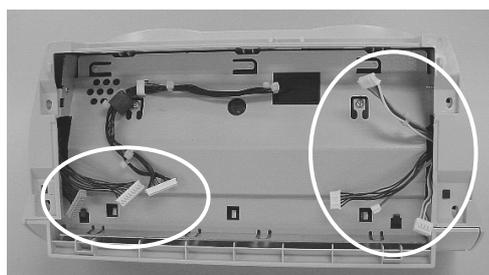
Follow the above procedure in reverse.

1. Attach four connectors in the right circle.

2. Attach three connectors in the left circle.

3. Attach the PCB UNIT.

Be careful not to pinch any cables between the PCB UNIT and the scanner.

Note: Before attaching PCB UNIT on the scanner, press the cable inward to prevent the pinching of the cable band between the connector and scanner frame.

Otherwise the PCB UNIT does not close completely, and the connector may be damaged if you close the PCB UNIT by force.

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5-9   UPPER UNIT, GUIDE P ASSY (Sheet Guide) and BASE UNIT

NOTICE

Be careful not to touch the glass window when disassembling.
Refer to Section 3-1 (BASE UNIT), 3-11 (UPPER UNIT) and 3-10 (GUIDE P ASSY=Sheet Guide) for the parts numbers of the replacement parts.
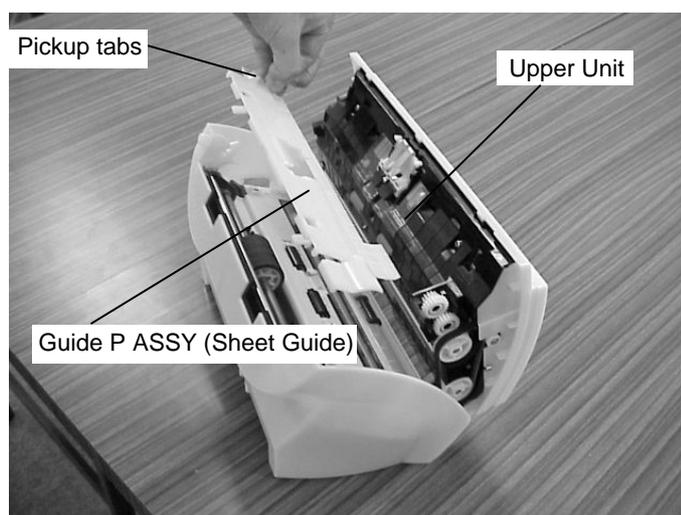
<Removal>
1) Remove two screws of the ADF METAL, and then remove the ADF METAL and ADF METAL UPPER from the UPPER UNIT.

ADF METAL

ADF METAL UPPER
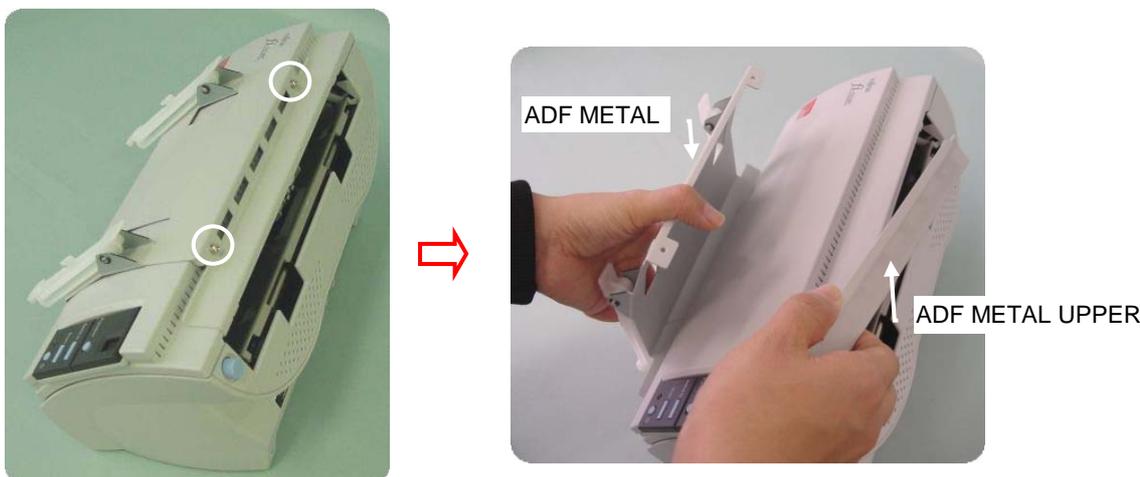
2) When replacing the UPPER UNIT, remove PANEL PCA at first by following steps 2) and 3) of Section 5-10-1 "Panel PCA".

Note: It is not necessary to save the EEPROM data on step (1) of Section 5-10-1 "Panel PCA" because removed PANEL PCA is attached again after replacing the UPPER UNIT.

3) Remove the PCB UNIT (Refer to Section 5-8 "PCB Unit").
4) Open the UPPER UNIT and pinch the pickup tabs of the GUIDE P ASSY (Sheet Guide) to pull the GUIDE P ASSY to remove it.

Pickup tabs

Upper Unit

Guide P ASSY (Sheet Guide)

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5) Rotate the bushing that holds the Pick Roller gear to remove one end of the roller shaft from the flame. Remove the other end of the roller shaft from the bushing to remove the Pick Roller completely.
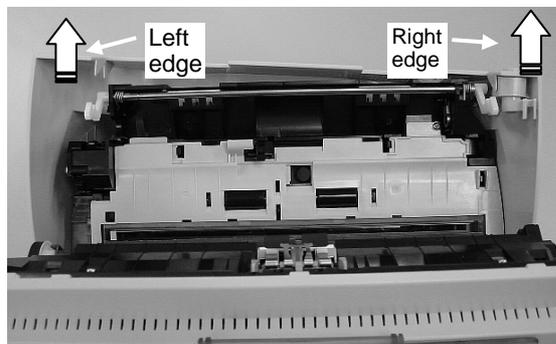
Pick Roller

Bushing

Pick Roller
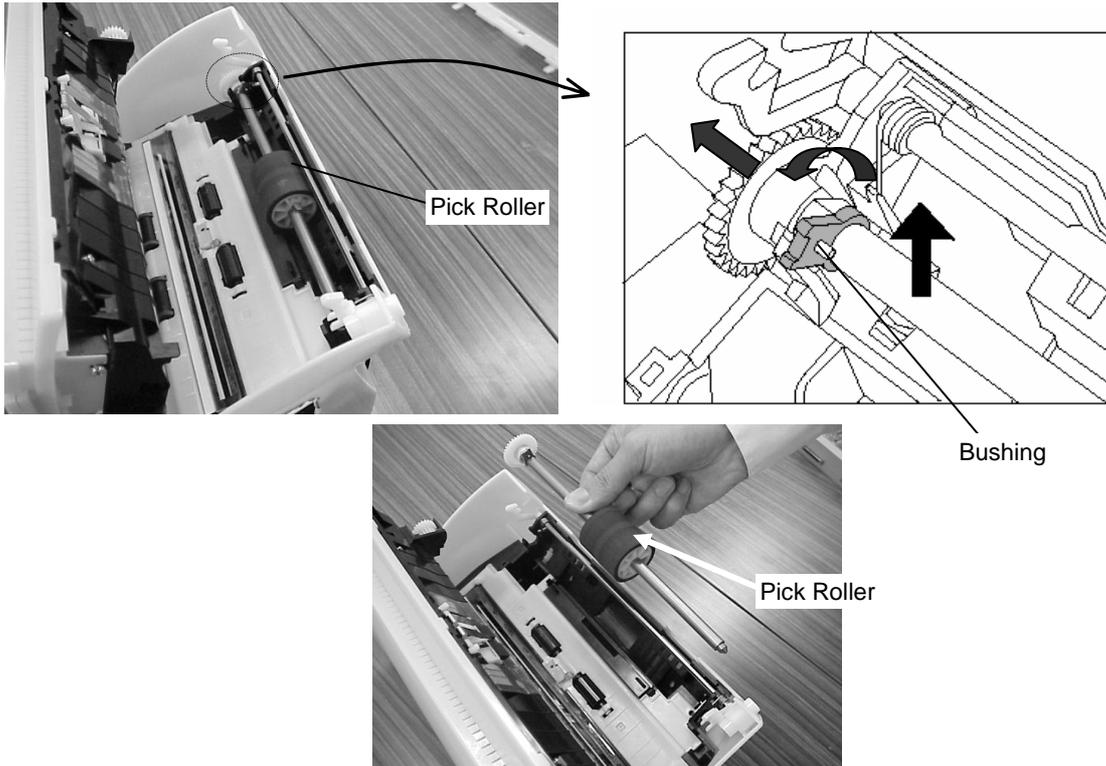
6) Detach the Rear Cover from the Base unit.

1. Unlatch the lock lever from the groove of the ADF release button and lay the groove to right (photo on the right below).

Claw

Lock lever and
ADF release button

Lock lever

Groove of ADF
release button
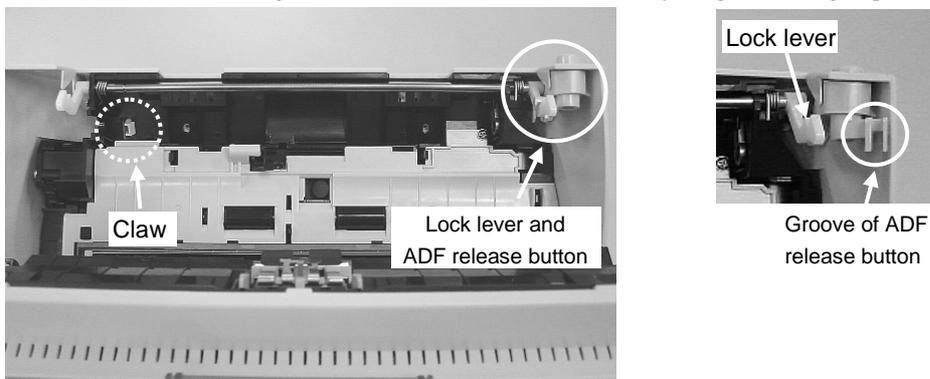
2. Unlatch the claw (dotted circle in the photo on the left above) of the Rear Cover which is connected to the frame of the BASE UNIT, remove the left edge of the Rear Cover, then the right edge.

Left
edge

Right
edge

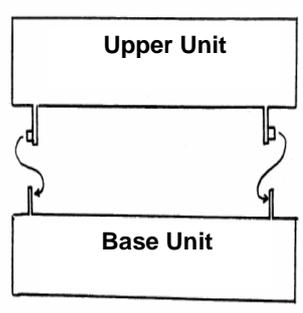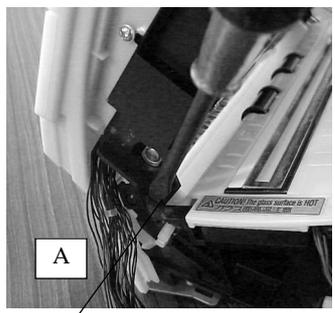| 09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	fi-6000NS, fi-6010N Network Scanner Maintenance Manual		
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7) Remove a FG cable fixing screw in the metal board that protects the PCA. Then remove the cables out from the cover in the BASE UNIT.

FG cable fixing screw

Cable

Base Unit cover
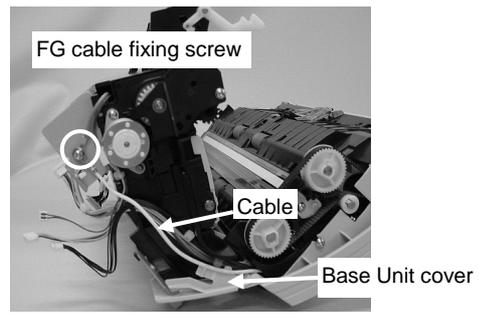
8) Remove the black wire cables from a cable clamp and hooks of the BASE UNIT.

Hooks

Cables

Clamp
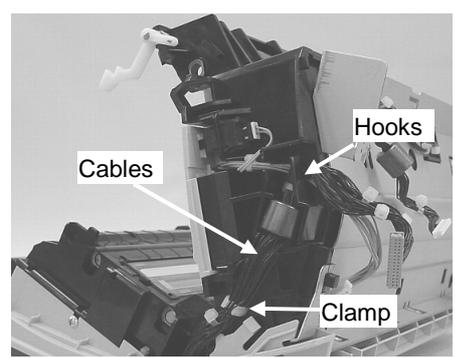
9) Insert a flat screwdriver between the side plates of the UPPER UNIT and the BASE UNIT at the fulcrum (shown as A and B in the figures below) and remove the fulcrum shaft from the hole, so that the UPPER UNIT and the BASE UNIT are separated. It will be easier to start from the A side.

A

Upper Unit

Base Unit

B
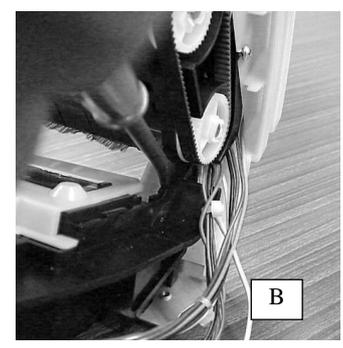
Cable clamp
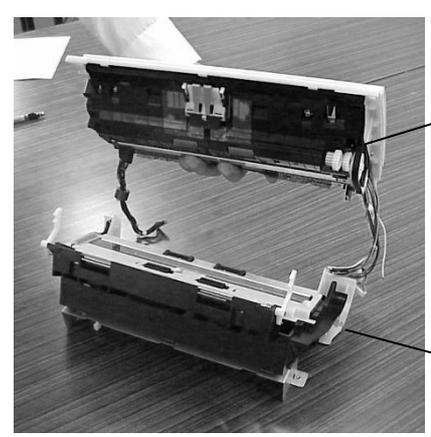
Upper Unit

Base Unit

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<Installation>

1)   Follow the above procedure in reverse, paying attention to the notices below.

✎ **NOTICE**

1. Clean the glass window with a lint-free cloth moistened with alcohol.   Be sure that no fabric from the cloth remains on the glass.

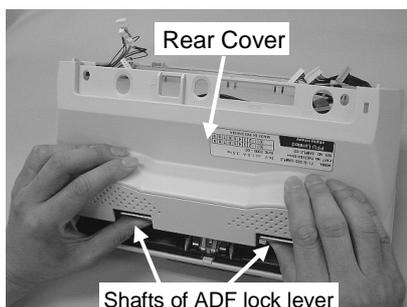2. When assembling the Rear Cover, confirm that the cables and core of the Upper Unit are placed as shown below

The cables should be placed in the hook.

The cable should be routed in the cover of the Base Unit.

The cables should be placed in the hook.

The core of the cables should be placed into the hole.

The cables should be placed into the slot.
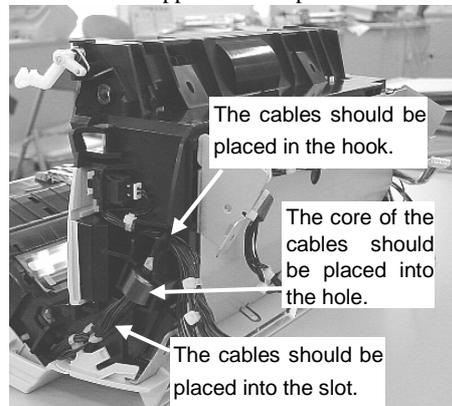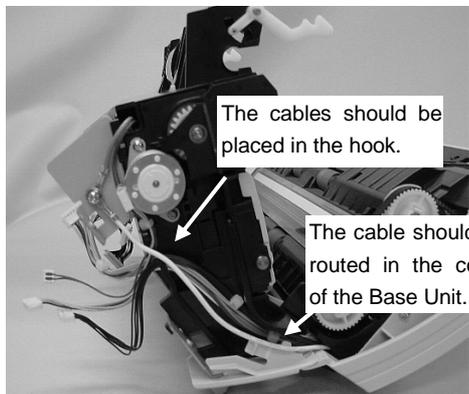
[Installing the Rear Cover]

1. Place the BASE UNIT with its bottom facing up (photo on the left below), and fit the bottom of the Rear Cover into the BASE UNIT (photo on the right below).


Bottom of Base Unit
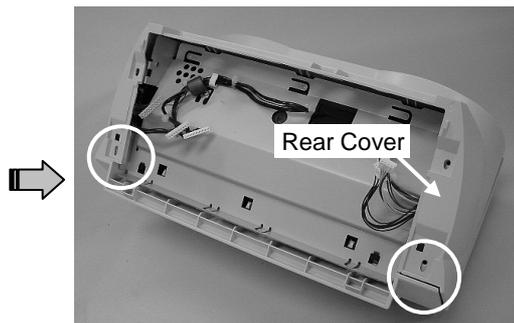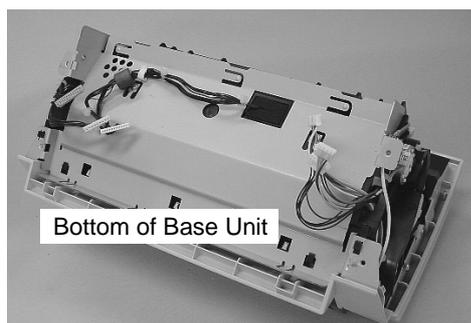
Rear Cover

2. Hold down the Rear cover and the shafts of the ADF lock lever (photo below) and insert the top of the Rear Cover into the BASE UNIT.

Rear Cover

Shafts of ADF lock lever

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3. Insert the lock lever into the groove of the ADF release button (photo below).
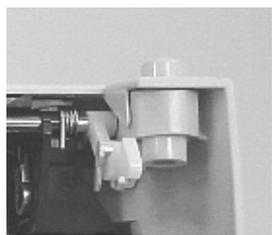
2) After installing the UPPER UNIT and the BASE UNIT, perform the following adjustment:

■   Magnification adjustment (Section 6-1-3)

■   Offset adjustment (Section 6-1-4)

■   White level adjustment (Section 6-1-5)

3) After replacing the UPPER UNIT, reset the Pad Counter by referring to Appendix 1-4 "Status of Consumable Parts."
    After replacing the BASE UNIT, reset the Pick Counter by referring to Appendix 1-4 "Status of Consumable Parts," as
    the BASE UNIT includes the Pick roller.

Note: Install the removed PANEL PCA to the UPPER UNIT. (Refer to Section 5-10-1.)

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5-10   Parts in the UPPER UNIT

5-10-1   PANEL PCA

✎ **NOTICE**

Refer to Section 3-16 for the part number of the replacement part.

<Removal>

1)   Temporarily move the EEPROM data installed on the PANEL PCA into the CONTROL PCA (Refer to Section 6-2.)

Note: This product has an EEPROM installed on the PANEL PCA instead of on the CONTROL PCA. This helps to reduce the data saving operations since the CONTROL PCA requires frequent replacement.

2)   Insert a flat screwdriver into a gap of the Panel Cover and Upper Cover, and remove the Panel Cover by unlatching the claw as shown below.

Panel cover
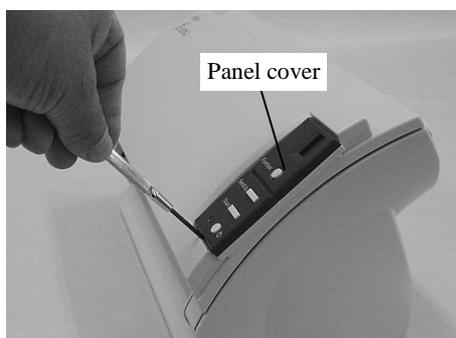
3)   Take out the PANEL PCA and disconnect one connector from the PANEL PCA.

Panel PCA

Hole of Upper cover (under the PCA)

Connector

<Installation>
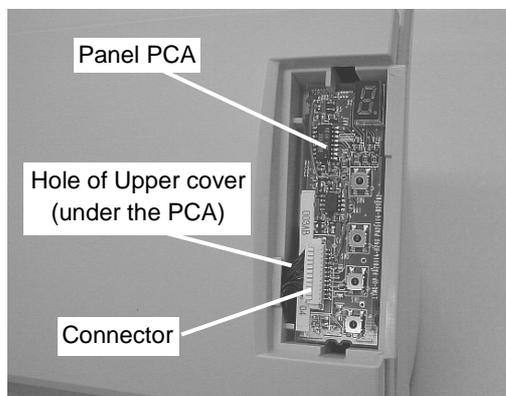
1)   Follow the removing procedure in reverse.

2)   After installing a new PANEL PCA, overwrite the EEPROM data that has been saved on the CONTROL PCA into the new PANEL PCA. (Refer to Section 6-1-8)

3)   Put the cables into the hole of Upper cover (see above photo). If the cables are accidentally placed between PANEL PCA and Upper cover, the PANEL PCA is lifted causing power button to be turned ON.

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5-10-2 LAMP INVERTER (for ADF backside)

◢ NOTICE

Conduct the procedure under dust-free environment.

Refer to Section 3-2 for the part number of the replacement part.

<Removal>

1) Remove the PANEL PCA. (Refer to steps 2) and 3) in Section 5-10-1 "Panel PCA".)

2) Loosen the self-tapping screws A and B. Pull the lower edge of the Upper cover in D direction to detach the Claw C, lift up the edge in E direction, then push the cover in F direction.

◢ NOTICE

When removing the Upper cover, be careful not to turn the scanner upside down. Doing so may cause the OPTICAL UNIT to fall off since it is not fixed to the UPPER ASSY.
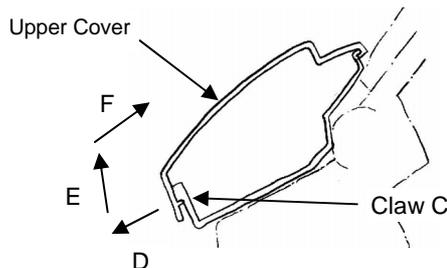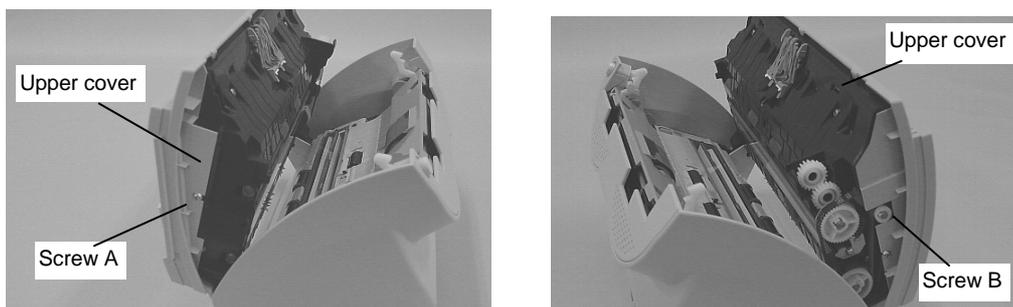
3) Detach two claws (solid circles in the photo on the left below).that hold the LAMP INVERTER and disconnect two connectors (dotted circles in the photo on the right below) to remove the LAMP INVERTER.

<Installation>
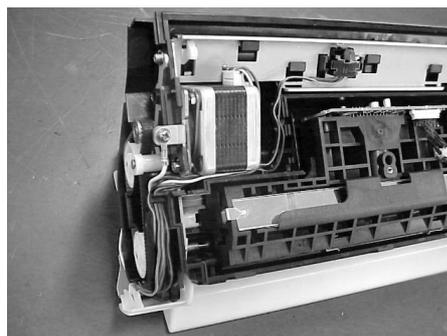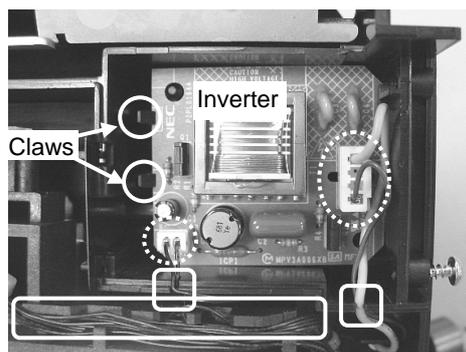
Follow the removing procedure in reverse.

Note: When installing the Upper cover, do not pinch the cables.

1. Make sure that the cables are inserted in the grooves (3 places, square in the photo on the left above).

2. Make sure that the ADF MOTOR cable is inserted in the groove (photo on the right above).

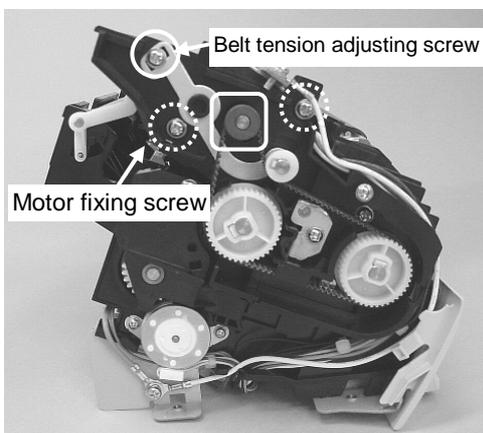| 09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	fi-6000NS, fi-6010N Network Scanner **Maintenance Manual**		
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5-10-3 ADF MOTOR

⚠ NOTICE

Conduct the procedure under dust-free environment.

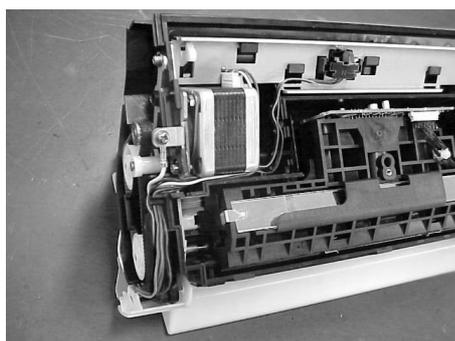Refer to Section 3-13 for the part number of the replacement part.

<Removal>

1) Remove the PCB UNIT. (Refer to Section 5-8 "PCB unit".)

2) Remove the Rear cover. (Refer to steps 4) ~ 6) in Section 5-9 "Upper Unit, Guide P ASSY (Sheet Guide) and Base Unit".)

3) Remove the PANEL PCA. (Refer to steps 2) and 3) in Section 5-10-1 "Panel PCA".)

4) Remove the Upper Cover. (Refer to step 2) in Section 5-10-2 "Lamp Inverter (for ADF backside)".)

5) Loosen a belt tension adjusting screw (solid circle in the photo below), and remove two ADF MOTOR fixing screws (dotted circles in the photo below). Remove the cable of the ADF MOTOR (square in the photo below) from the scanner, and take out the ADF MOTOR.


<Installation>

Follow the removing procedure in reverse. Arrange the ADF MOTOR cable as shown in the photo below:

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After mounting the ADF MOTOR, adjust the belt tension so that the tension becomes the value shown in the figure on the next page, and fix the belt tension adjusting screw.
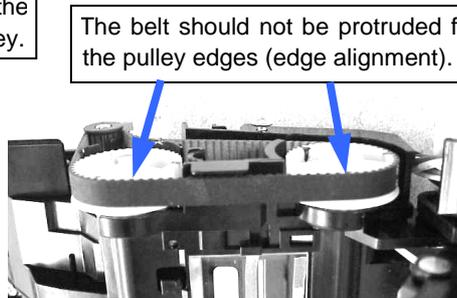
Load: 850±50g
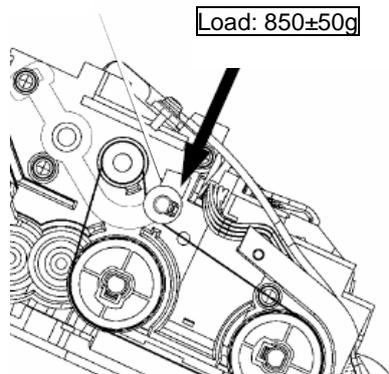
Note: Before adjusting the belt tension, perform the following actions:
- Loosen the tension adjusting screw two rotations.
- Strike the belt to the outer ends of four pulleys (squares in the photo below).
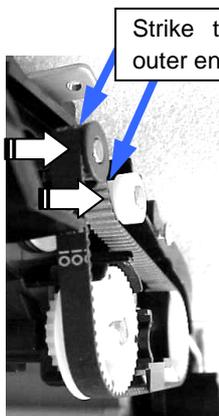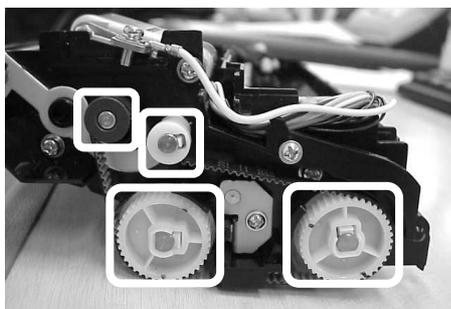
Strike the belt to the outer ends of the pulley.

The belt should not be protruded from the pulley edges (edge alignment).

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5-10-4 OPTICAL UNIT (for ADF backside)

⚠ **NOTICE**

Conduct the procedure under dust-free environment.

Refer to Section 3-7 for the part number of the replacement part.

<Removal>

1) Remove the PANEL PCA. (Refer to steps 2) and 3) in Section 5-10-1 "Panel PCA".)

2) Remove the Upper Cover. (Refer to step 2) in Section 5-10-2 "Lamp Inverter (for ADF backside)".)

3) Remove a connector from the OPTICAL UNIT. Remove two cables from the groove of the OPTICAL UNIT. Then remove the OPTICAL UNIT.

<Installation>
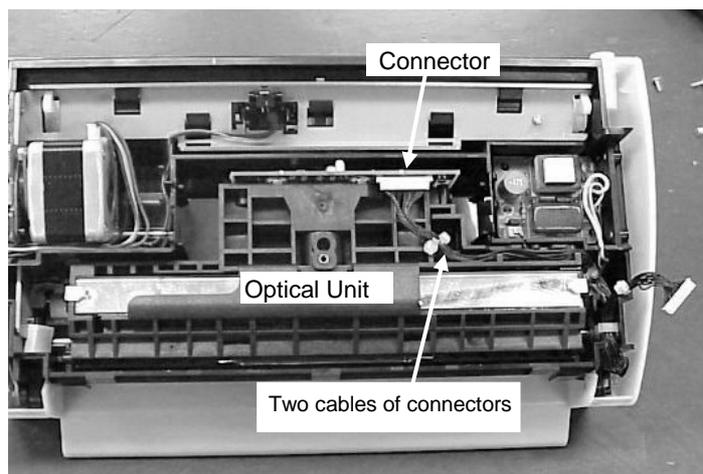
1) If the mirror inside the OPTICAL UNIT is dirty, clean it with the blower brush or a dry cloth. Do not use alcohol as it may stain the mirror.

2) Follow the removing procedure in reverse. The cables should be routed in the way as shown in the photo above.

3) After installing the OPTICAL UNIT, perform the following adjustment:

■ Magnification adjustment (Section 6-1-3)

■ Offset adjustment (Section 6-1-4)

■ White level adjustment (Section 6-1-5)

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5-10-5   LAMP (for ADF backside)

NOTICE

Conduct the procedure under dust-free environment.

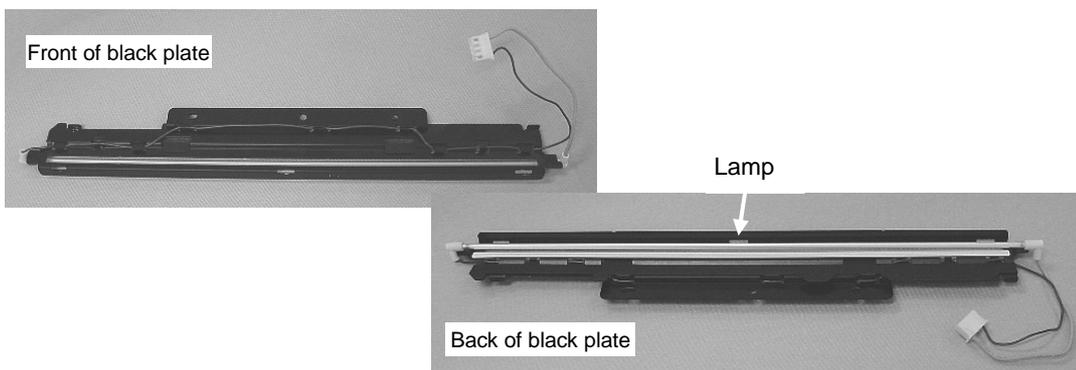Refer to Section 3-3 for the part number of the replacement part.

<Removal>

1) Remove the PANEL PCA. (Refer to steps 2) and 3) in Section 5-10-1 "Panel PCA".)

2) Remove the Upper Cover. (Refer to the step (2) in Section 5-10-2 "Lamp Inverter (fro ADF backside).)

3) Remove the OPTICAL UNIT. (Refer to the step 3) in Section 5-10-4 (Optical Unit (for ADF backside)".)

4) Disconnect two connectors (dotted circles in the photo on the left below) of the Inverter and gather cables (4 bundles shown in the photo on the right below).
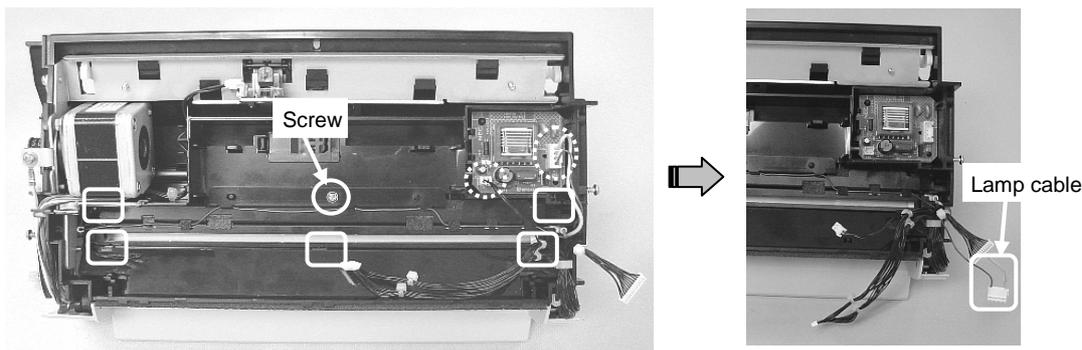
Screw

Lamp cable

5) Remove a screw of the black plate (dotted circle in the photo on the left above). Then unhook five hooks (square in the photo on the right above) with a small flat-blade screwdriver and remove the black plate.

Hook

Black plate
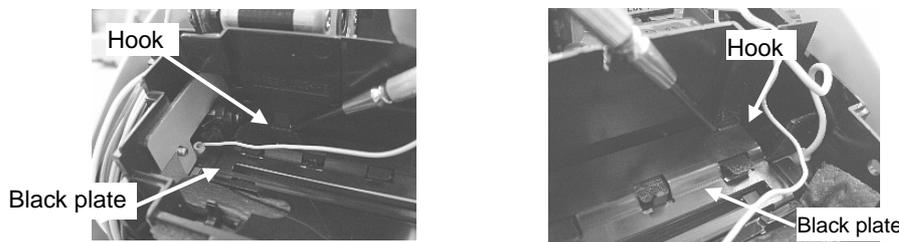
Hook

Black plate

6) Unhook the LAMP cable from seven hooks of the front side of the black plate and remove the LAMP.

Front of black plate

Lamp

Back of black plate

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NewFEIMAS

<Installation>

1) Follow the removing procedure in reverse. Take care not to fix the screw (for black plate) too tight as it is a self-tapping screw.

[Installing the black plate]

    1. Insert the left edge of the Lamp into the groove of the UPPER UNIT (photo below).

      Note: Place the black plate of which the LAMP cable is attached is facing up.
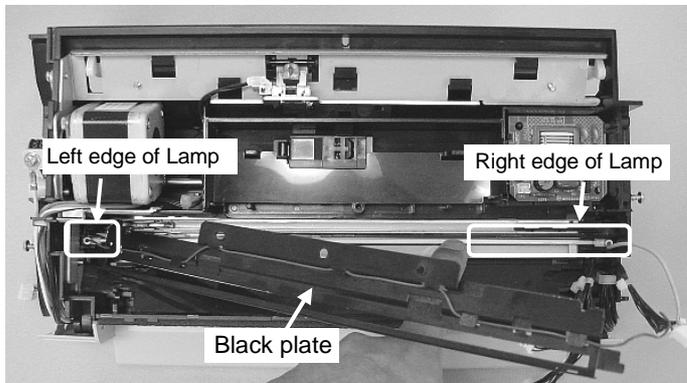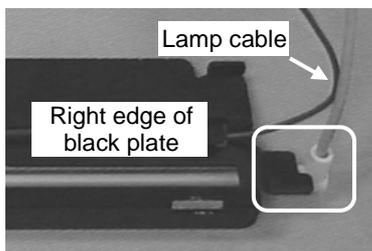

    2. Insert the right edge of the LAMP into the groove of the UPPER UNIT (photo above).

      Note: Place the black plate of which the Lamp cable is attached is facing up.

    3. Attach the black plate to the UPPER UNIT.

      Note: Fit the attaching part (facing up, photo below) to L-shape part at the right edge of the black plate.

2) After installing the Lamp, perform the following adjustment:

      ■   Magnification adjustment (Section 6-1-3)

      ■   Offset adjustment (Section 6-1-4)

      ■   White level adjustment (Section 6-1-5)

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5-10-6   US SENSOR UPPER

✍ NOTICE

Conduct the procedure under dust-free environment.

Refer to Section 3-14 for the part number of the replacement part.

<Removal>

1) Remove the PANEL PCA. (Refer to steps 2) and 3) in Section 5-10-1 "Panel PCA".)

2) Remove the Upper Cover. (Refer to the step 2) in Section 5-10-2 "Lamp Inverter (for ADF backside)".)

3) Remove the OPTICAL UNIT. (Refer to the step 3) in Section 5-10-4 "Optical Unit (for ADF backside)".)

4) Remove the black plate. (Refer to step 5) in Section 5-10-5 "Lamp (for ADF backside)".)

5) Unlatch a claw (solid circle in the photo below) on the cover of the US SENSOR UPPER and remove the cover (square in the photo below) of the US SENSOR UPPER.

Cover of US Sensor Upper
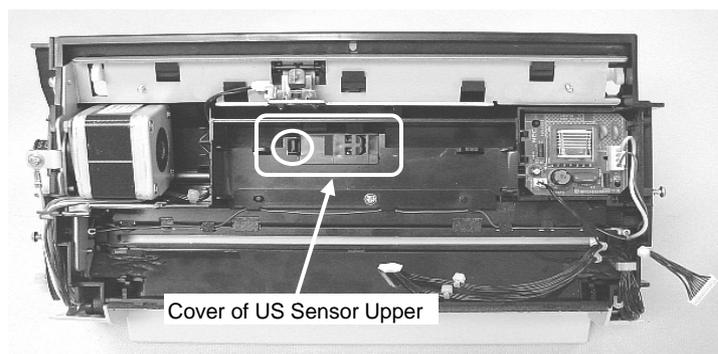
6) Take the US SENSOR UPPER out of the mounting hole and disconnect a connector (photo on the below right) of the US SENSOR UPPER.

US Sensor Upper

Mounting hole

Connector

<Installation>
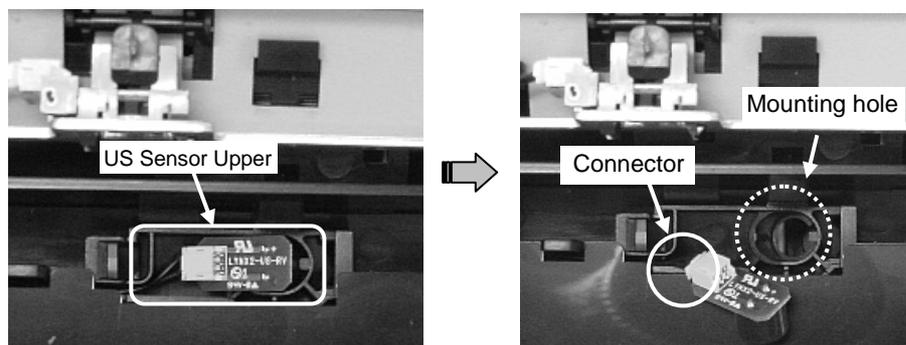
1) Follow the removing procedure in reverse.

Note: Insert the US SENSOR UPPER into the mounting hole (dotted circle in the photo on the right above) at a slant.

2) Check the sensor performance by Maintenance mode #1. (Refer to Section 6-1-2.)

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**5-10-7　SENSOR EM (for Empty detection)**

⚠ **NOTICE**

Conduct the procedure under dust-free environment.

Refer to Section 3-15 for the part number of the replacement part.

<Removal>

1) Remove the PANEL PCA. (Refer to the steps 2) and 3) in Section 5-10-1 "Panel PCA".)

2) Remove the Upper cover. (Refer to the step 2) in Section 5-10-2 "Lamp Inverter (for ADF backside".)

3) Pull left (connector side) of the shaft of the SENSOR EM lever in A direction and remove the shaft.　Remove right side of the shaft and remove the SENSOR EM lever.
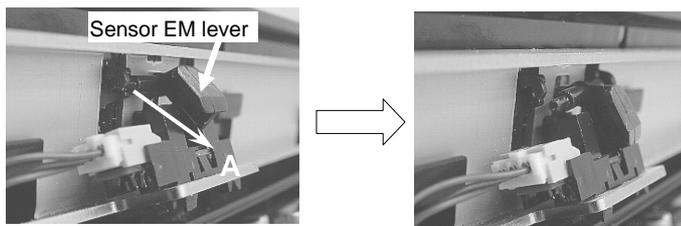
4) Remove the SENSOR EM by releasing claws of the SENSOR EM, and disconnect a connector from the SENSOR EM.

<Installation>
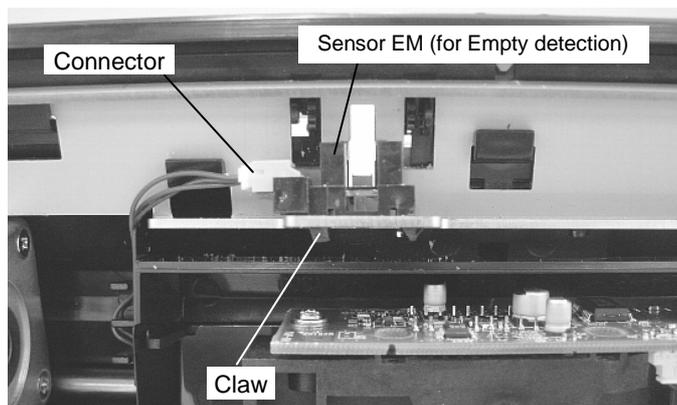
1) Follow the removing procedure in reverse.

2) After installing the SENSOR EM, perform the offset adjustment (Section 6-1-4), and check the sensor performance (Section 6-1-2).

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NewFEIMAS (vertical left margin)

5-10-8   UPPER ASSY

⚠ NOTICE

Conduct the procedure under dust-free environment.

Refer to Section 3-12 for the part number of the replacement part.

<Removal>

1)   Remove the PCB UNIT. (Refer to Section 5-8 "PCB Unit".)

2)   Remove the Rear Cover. (Refer to the steps 4) to 6) in Section 5-9 "Upper Unit, Guide P ASSY (Sheet Guide) and Base Unit".)

3)   Remove the PANEL PCA. (Refer to the steps 2) and 3) in Section 5-10-1 "Panel PCA".)

4)   Remove the Upper Cover and LAMP INVERTER. (Refer to steps 2) and 3) in Section 5-10-2 "Lamp Inverter (for ADF backside)".)

5)   Remove the ADF MOTOR. (Refer to the step 5) in Section 5-10-3 "ADF Motor".) Remove the metal fitting, roller and belt used for adjusting belt tension (photo on the left below). Remove a screw that fixes the FG cable and take out the FG cable (photo on the right below).
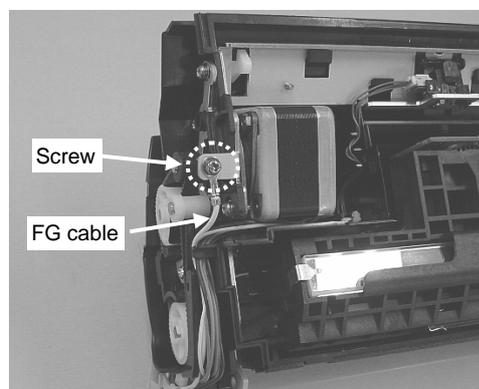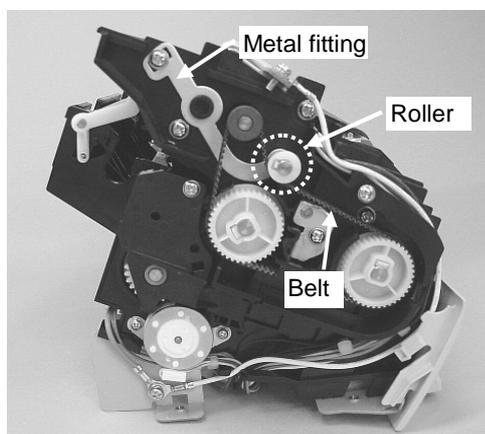
6)   Remove the OPTICAL UNIT. (Refer to the step 3) in Section 5-10-4 "Optical Unit (for ADF backside)".)

7)   Remove the LAMP. (Refer to the steps 4) ~ 6) in Section 5-10-5 "Lamp (for ADF backside)".)

8)   Remove the US SENSOR UPPER. (Refer to the steps 4) to 6) in Section 5-10-6 "US Sensor Upper".)

9)   Remove the SENSOR EM. (Refer to steps 3) and 4) in Section 5-10-7 "Sensor EM".)

10) Remove the Pad ASSY. (Refer to step 3) in Section 7-6-3 "Replacing the Pad ASSY".)

➔**The remaining unit is the UPPER ASSY to be replaced.**

<Installation>

1) If either side of the glass in the UPPER UNIT is dirty, clean it.   Follow the removing procedure in reverse. Assembling should be taken under dust-free environment.

2) After installing the UPPER ASSY, perform the following adjustment:

■   Magnification adjustment for ADF back scanning (Section 6-1-3)

■   Offset adjustment for ADF back scanning (Section 6-1-4)

■   White level adjustment for ADF front/back scanning. (Section 6-1-5)

3) Check the sensor performance as shown in Section 6-1-2.

NewFEIMAS

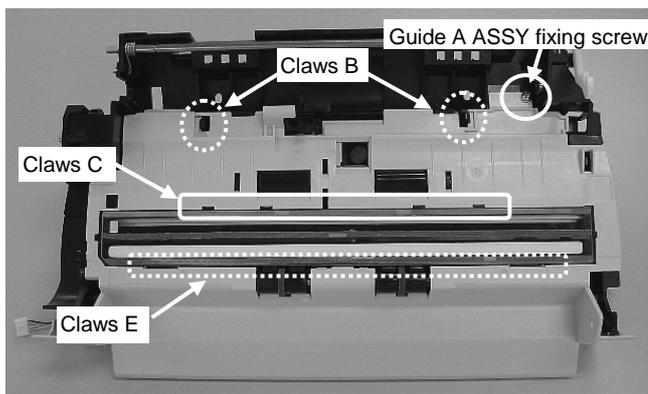## 5-11 Parts of the BASE UNIT

5-11-1 GUIDE A ASSY

✎ **NOTICE**

Refer to Section 3-5 for the part number of the replacement part.

<Removal>

1) Remove the PCB UNIT. (Refer to Section 5-8 "PCB Unit".)

2) Remove the BASE UNIT. (Refer to the steps 4) to 9) in Section 5-9 "Upper Unit, Guide P ASSY (Sheet Guide) and Base Unit".)

3) Remove a GUIDE A ASSY fixing screw (one self-tapping screw, solid circle in the photo below). Detach two Claws B (dotted circle in the photo below), then four Claws C (solid square in the photo below).

4) Release three Claws D at the bottom of the BASE UNIT by sliding them to left. Then release four Claws E at the upper part of the BASE UNIT (dotted square in the photo above).

<Installation>

Follow the above procedure in reverse.

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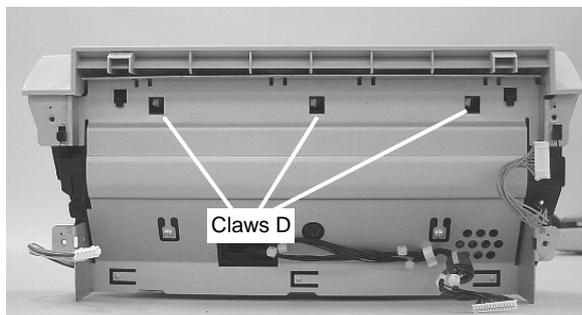## 5-11-2   LAMP INVERTER (for ADF front)

NOTICE

Refer to Section 3-2 for the part number of the replacement part.

<Removal>

1)   Remove the PCB UNIT. (Refer to Section 5-8 "PCB Unit".)

2)   Remove the BASE UNIT. (Refer to the steps 4) to 9) in Section 5-9 "Upper Unit, Guide P ASSY (Sheet Guide) and Base Unit.)

3)   Remove the GUIDE A ASSY from the Base Unit. (Refer to the steps 3) and 4) in Section 5-11-1 "Guide A ASSY".)

4)   Disconnect two connectors (solid circle in the photo below). Detach two claws and remove the LAMP INVERTER.

<Installation>
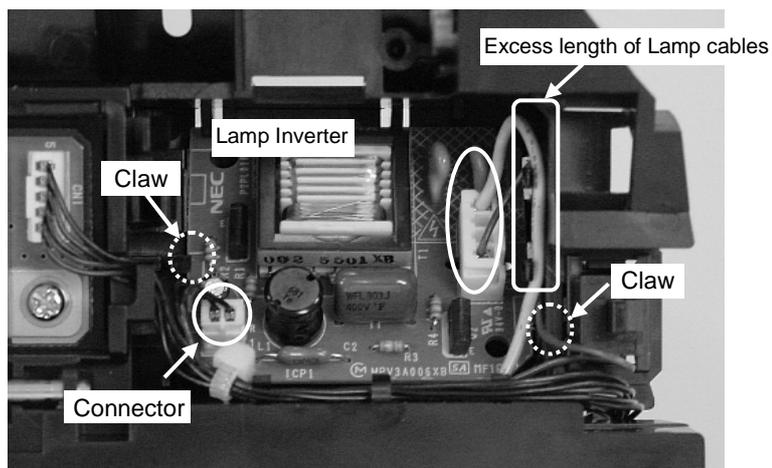
Follow the removing procedure in reverse. The excess length of two LAMP cables should be placed as shown above (solid square).

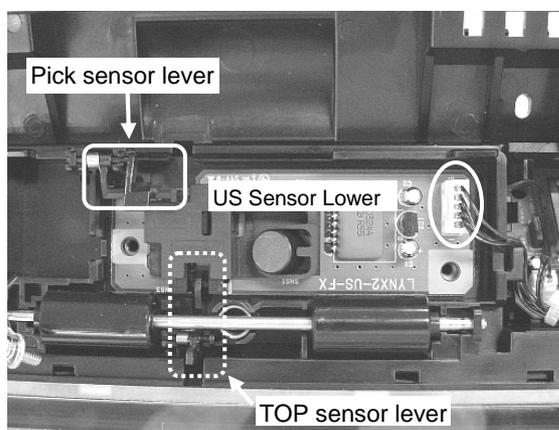| 09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	fi-6000NS, fi-6010N Network Scanner Maintenance Manual		
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5-11-3   US SENSOR LOWER

⚠️ **NOTICE**

Refer to Section 3-4 for the parts number of the replacement part.

<Removal>

1)   Remove the PCB UNIT. (Refer to Section 5-8 "PCB Unit".)

2)   Remove the BASE UNIT. (Refer to the steps 4) to 9) in Section 5-9 "Upper Unit, Guide P ASSY (Sheet Guide) and Base Unit".)

3)   Remove the GUIDE A ASSY from the BASE UNIT. (Refer to steps 3) and 4) in Section 5-11-1 "Guide A ASSY".)

4)   Detach two screws (solid circle in the photo below) of the US Sensor Lower and remove the US SENSOR LOWER cover.
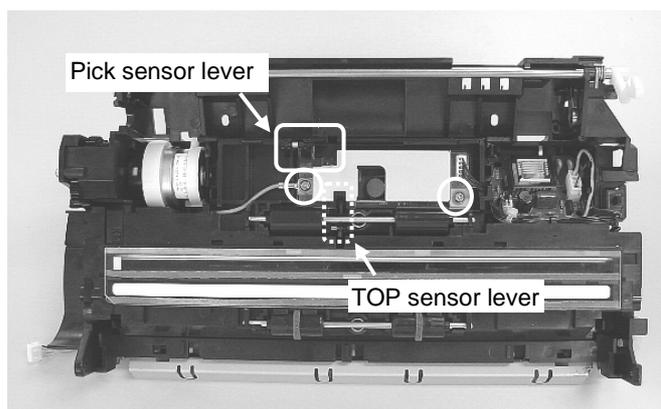
5)   Disconnect a connector (solid circle in the photo below). Holding down the Pick sensor lever (solid square in the photo below) and TOP sensor lever (dotted square in the photo below) with a hand so that they do not touch the US SENSOR LOWER, remove the US SENSOR LOWER by lifting up its bottom edge (TOP sensor lever side).

<Installation>

1)   Follow the removing procedure in reverse. Arrange two sensor cables as shown above.

2)   After mounting, check the sensor performance. (Refer to Section 6-1-2.)

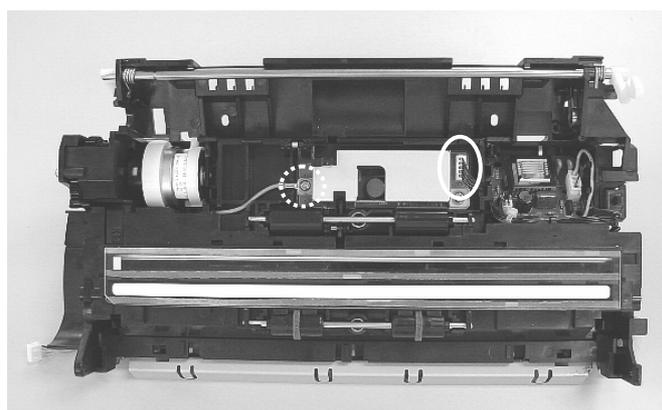| 09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	**fi-6000NS, fi-6010N Network Scanner**		
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NewFEIMAS

### 5-11-4   LAMP (for ADF front)

⚠ **NOTICE**

Conduct the procedure under dust-free environment.

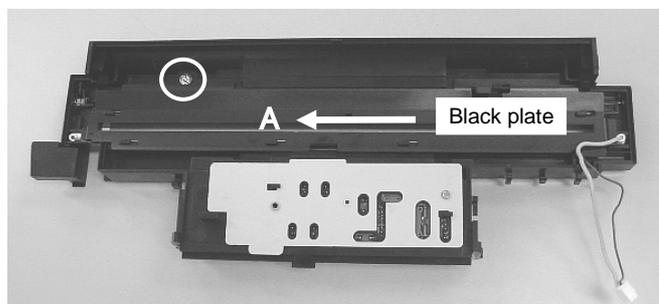Refer to Section 3-3 for the part number of the replacement part.

<Removing>

1)   Remove the PCB UNIT. (Refer to Section 5-8 "PCB Unit".)

2)   Remove the BASE UNIT. (Refer to steps 4) to 9) in Section 5-9 "Upper Unit, Guide P ASSY and Base Unit".)

3)   Remove the GUIDE A ASSY from the Base Unit. (Refer to steps 3) and 4) in Section 5-11-1 "Guide A ASSY".)

4)   Disconnect two connectors. (Refer to step 4) in Section 5-11-2 "Lamp Inverter (for ADF front)".)

5)   Disconnect a connector (solid circle in the photo below) of the US SENSOR LOWER. Then remove a screw (dotted circle in the photo below) at the left side of the US SENSOR LOWER cover.

6)   Detach three claws (circles in the photo below) of the DUST COVER ASSY and remove the DUST COVER ASSY.
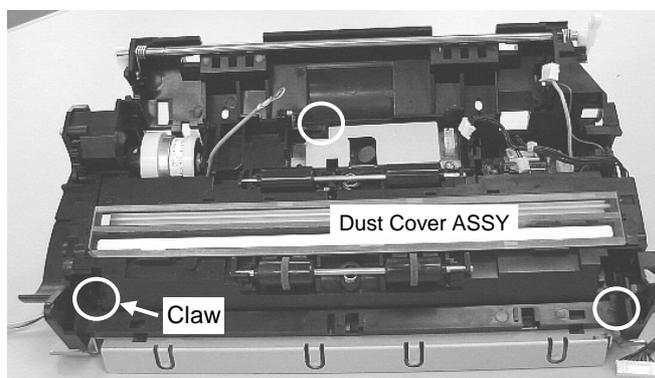
7)   Remove a black plate fixing screw (circle in the photo below) and slide the black plate in A direction to remove it.

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8) Remove both edges of the Lamp from the groove of the DUST COVER ASSY. Then detach the LAMP cable from the groove.

<Installation>
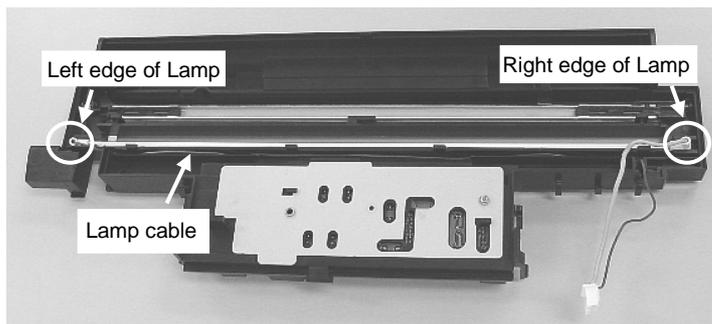
1) If the glass of the DUST COVER ASSY and inside of the reflector are dirty, clean them.
2) Follow the removing procedure in reverse.

    [Installing LAMP and Black Plate]

    1. Insert both edges of the LAMP into the groove of the DUST COVER ASSY.
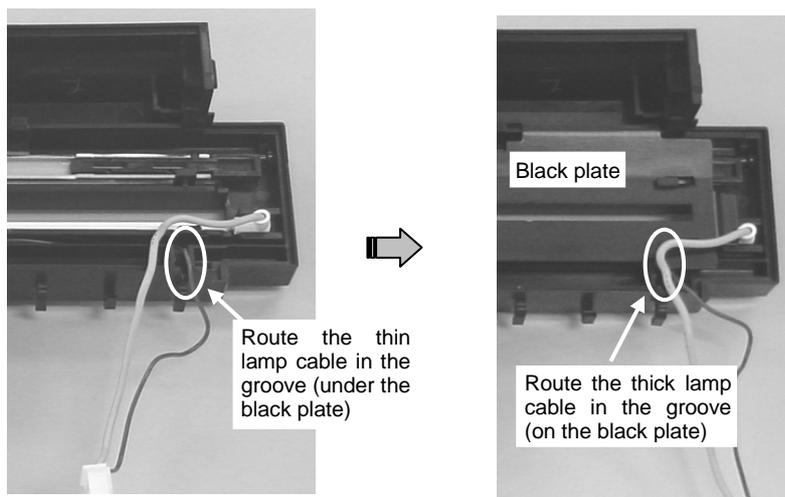
      Note: Be sure that the mounting part of the LAMP cable faces up.

    2. Insert the thin Lamp cable into the groove of the DUST COVER ASSY.

    3. Attach the black plate to the DUST COVER ASSY.

      Note: Be sure that the LAMP cable is routed as shown below.

          When mounting the DUST COVER ASSY, be careful not to pinch the LAMP cable.

3) After mounting the LAMP, perform the following adjustment:

    ■ Magnification adjustment (Section 6-1-3)

    ■ Offset adjustment (Section 6-1-4)

    ■ White level adjustment (Section 6-1-5)

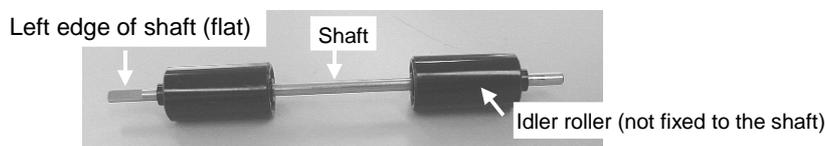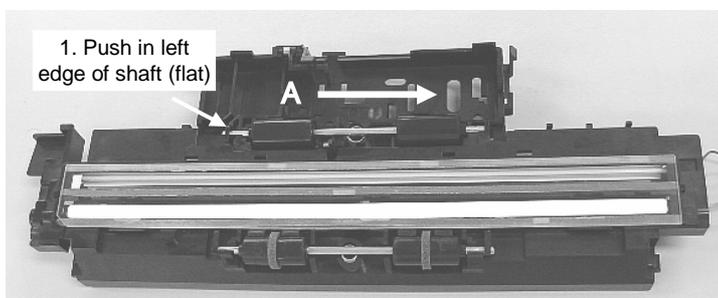| 09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	**fi-6000NS, fi-6010N Network Scanner**	
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5-11-5 DUST COVER ASSY

⚠ NOTICE

Conduct the procedure under dust-free environment.

Refer to Section 3-6 for the part number of the replacement part.

<Removal>

1)   Remove the PCB UNIT. (Refer to Section 5-8 "PCB Unit".)

2)   Remove the BASE UNIT. (Refer to steps 4) to 9) in Section 5-9 "Upper Unit, Guide P ASSY (Sheet Guide) and Base Unit".)

3)   Remove the GUIDE A ASSY from the BASE UNIT. (Refer to steps 3) and 4) in Section 5-11-1 "Guide A ASSY".)

4)   Disconnect two connectors. (Refer to step 4) in Section 5-11-2 "Lamp Inverter (for ADF front)".)

5)   Remove the US SENSOR LOWER. (Refer to steps 4) and 5) in Section 5-11-3 "US Sensor Lower".)

6)   Remove the DUST COVER ASSY, the black plate and the LAMP. (Refer to steps 6) ~ 8) in Section 5-11-4 "Lamp (for ADF front)".)

7)   Slide the left edge of the idler roller shaft in A direction and remove the shaft. Remove the idler roller shaft with sponge as well.

1. Push in left edge of shaft (flat)

A

2. Remove left edge of shaft (flat)

Left edge of shaft (flat)

Shaft

Idler roller (not fixed to the shaft)

<Installation>

If either side of the glass in the DUST COVER ASSY is dirty, clean it. Assembling should be taken under dust-free environment. Follow the removing procedure in reverse.

[Installing Idler roller shaft]

1. Insert the right edge of the shaft into the DUST COVER ASSY hole.

2. Insert the left edge (flat) by fitting to the DUST COVER ASSY hole (photo on the right).
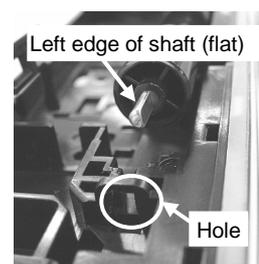
[Installing Lamp and Black plate]

Refer to Section 5-11-4.

Left edge of shaft (flat)

Hole

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## 5-11-6   OPTICAL UNIT (for ADF front)

⚠ NOTICE

Conduct the procedure under dust-free environment.

Refer to Section 3-7 for the part number of the replacement part.

<Removal>

1) Remove the PCB UNIT. (Refer to Section 5-8 "PCB Unit".)

2) Remove the BASE UNIT. (Refer to steps 4) to 9) in Section 5-9 "Upper Unit, Guide P ASSY (Sheet Guide) and Base Unit".)

3) Remove the GUIDE A ASSY from the BASE UNIT. (Refer to steps 3) and 4) in Section 5-11-1 "Guide A ASSY".)

4) Disconnect two connectors. (Refer to step 4) in Section 5-11-2 "Lamp Inverter (for ADF front)".)

5) Remove the DUST COVER ASSY. (Refer to steps 5) and 6) in Section 5-11-4 "Lamp (for ADF front)".)

6) Remove the cable from the cable clamp attached to the bottom of the BASE UNIT.

Clamp
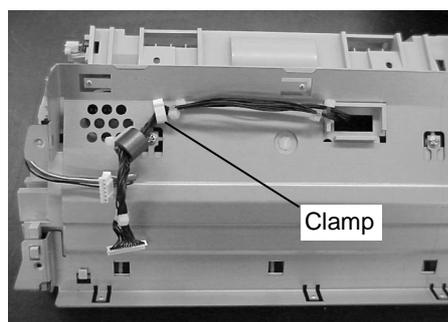
7) Raise the OPTICAL UNIT and disconnect a connector to remove the OPTICAL UNIT.

Connector

Optical Unit

<Installation>
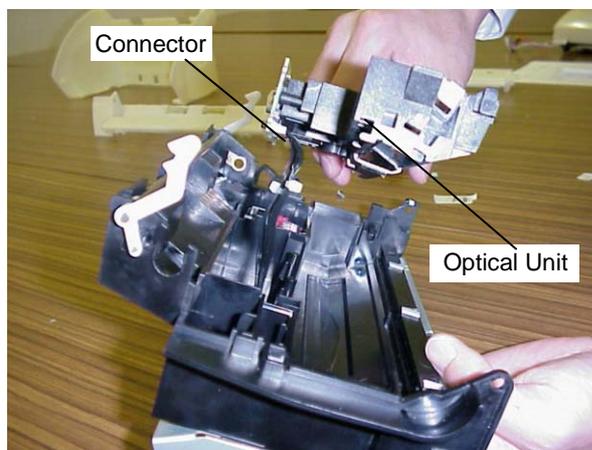
1) Clean the mirror inside the OPTICAL UNIT using a blower brush or a dry cloth if it is dirty. Do not use alcohol as it may stain the mirror.

2) Follow the removing procedure in reverse.

3) After mounting the OPTICAL UNIT, perform the following adjustment:
   - ■ Magnification adjustment (Section 6-1-3)
   - ■ Offset adjustment (Section 6-1-4)
   - ■ White level adjustment (Section 6-1-5)

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5-11-7 BW MOTOR

⚠ **NOTICE**

   Conduct the procedure under dust-free environment.

   Refer to Section 3-8 for the part number of the replacement part.

   A small Philips screwdriver (for M2.5) is required for replacing this part.

<Removal>

1)   Remove the PCB UNIT. (Refer to Section 5-8 "PCB Unit".)

2)   Remove the BASE UNIT. (Refer to steps 4) ~ 9) in Section 5-9 "Upper Unit, Guide P ASSY (Sheet Guide) and Base Unit".)

3)   Remove the GUIDE A ASSY from the BASE UNIT. (Refer to steps 3) and 4) in Section 5-11-1 "Guide A ASSY".)

4)   Remove small two BW MOTOR screws, and remove the BW MOTOR.

<Installation>

   Follow the removing procedure in reverse.

NewFEIMAS (sidebar)

5-11-8　CLUTCH

⚠ **NOTICE**

Refer to Section 3-9 for the part number of the replacement part.

<Removal>

1) Remove the PCB UNIT. (Refer to Section 5-8 "PCB Unit".)

2) Remove the BASE UNIT. (Refer to steps 4) ~ 9) in Section 5-9 "Upper Unit, Guide P ASSY (Sheet Guide) and Base Unit".)

3) Remove the GUIDE A ASSY from the BASE UNIT (Refer to steps 3) and 4) in Section 5-11-1 "Guide A ASSY".)

4) Remove the BW MOTOR. (Refer to step 4) in Section 5-11-7 "BW Motor".)

5) Remove a gear cover screw (solid circle in the photo below), and remove the gear cover.

Gear cover
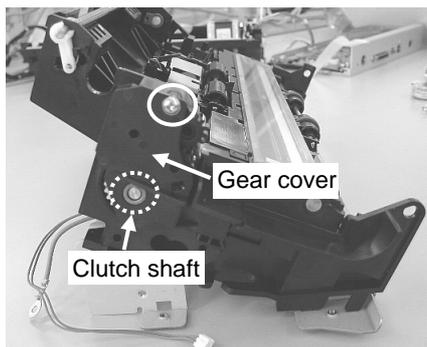
Clutch shaft

6) Remove two gears (large and small, solid square in the photo on the left below). Pull out the CLUTCH shaft (with gear, dotted square in the photo on the left below). Lift up the CLUTCH (photo on the right below) diagonally toward right and pull the CLUTCH out of the BASE UNIT hole.

Large gear

Small gear

Clutch shaft (with gear)

Clutch

7) Pull the connector of the CLUTCH cable (blue) out of the hole (circle in the photo below) on the bottom of the BASE UNIT.

FG cable

Clutch cable (blue)

Note: To pull out the connector of the CLUTCH cable (blue) easily, pull out the FG cable of the US SENSOR LOWER first.

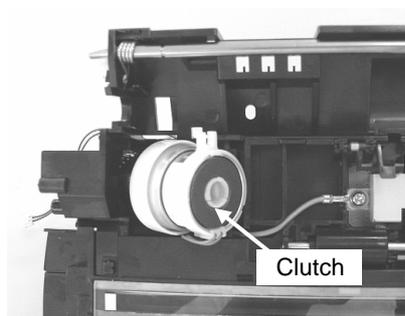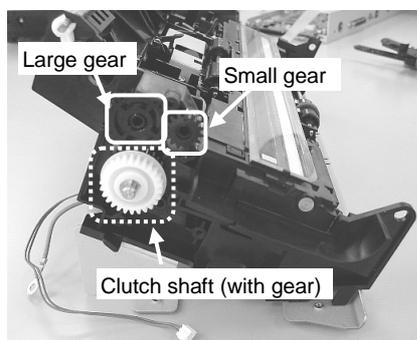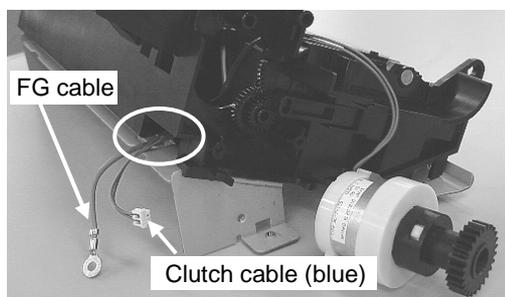| 09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	**fi-6000NS, fi-6010N Network Scanner**		
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<Installation>

1) Follow the removing procedure in reverse.
2) Pay attention to the following points.
   1. Attach the gear at the left edge of the flat part of the CLUTCH shaft (with gear)
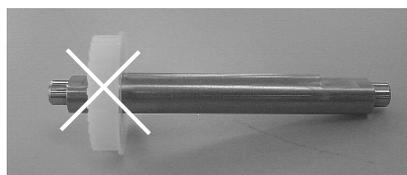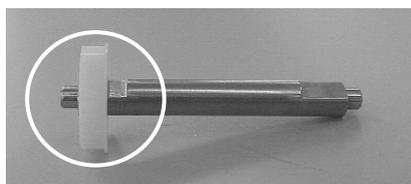
2. Align the CLUTCH shaft (with gear) with the flat part of the CLUTCH hole.

Align with the flat part of the Clutch hole.
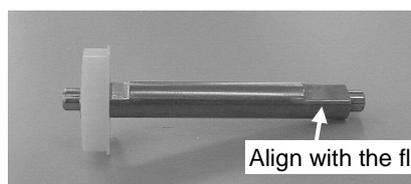
3. Take the CLUTCH claw out of the BASE UNIT hole.

Clutch claw

Take the Clutch claw out
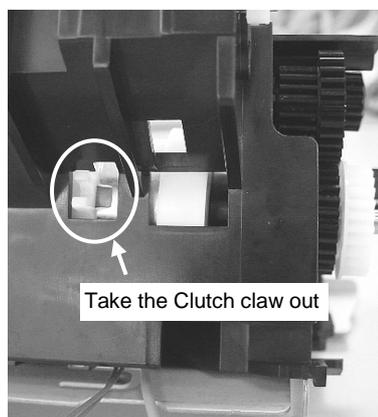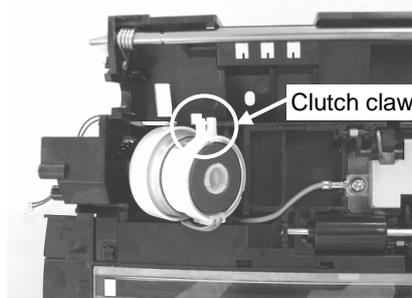
Note: To let the connector of the CLUTCH cable (blue) into the hole under the CLUTCH (circle in the photo below) easily, pull out the FG cable of the US SENSOR LOWER first.

Clutch cable (blue)

FG cable

Rubber (not pasted)
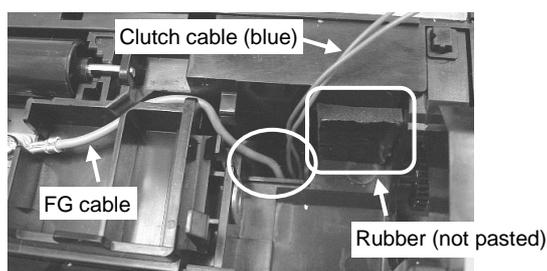
4. Insert the large gear into the gear shaft as shown in the photo below, and push it until its tip bumps the bottom.


Insert into gear shaft

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NewFEIMAS

5-12   CONTROL PCA

⬀ **NOTICE**

   Refer to Section 3-17 for the part number of the replacement part.

<Removal>

1) Remove the PCB UNIT. (Refer to Section 5-8 "PCB Unit".)

2) Remove three screws that fix the CONTROL PCA and three screws that fix the connectors to take out the CONTROL PCA.

Screws (Remove from back)

CN2

Screws

<Installation>
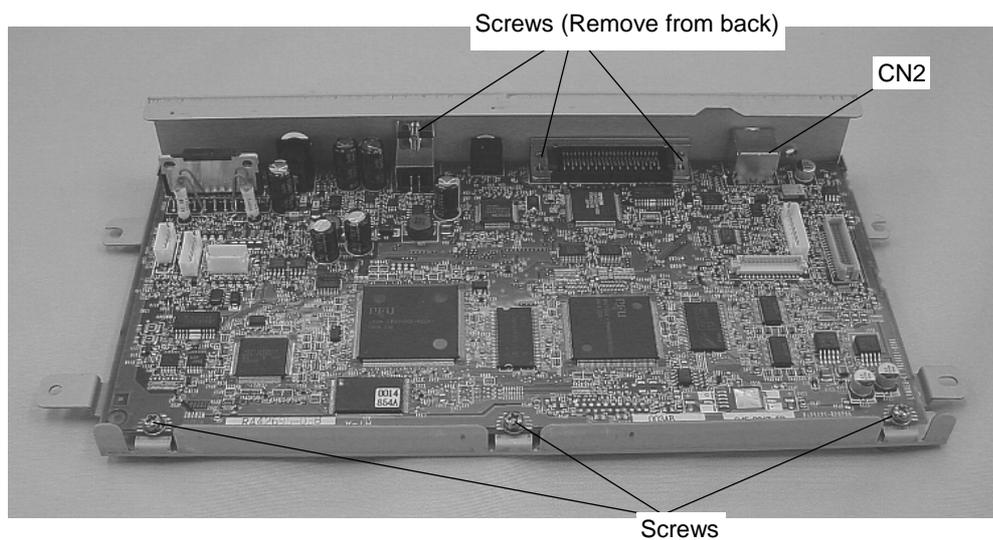
Follow the removing procedure in reverse.

When connecting the connectors, align and gently insert the cable to avoid bending connector pins.

5-13   (Reserved)

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NewFEIMAS

5-14   LCD UNIT

NOTICE

Refer to Section 3-29 for the part number of the replacement part.

<Removal>

Removing the scanner section

1)   Referring to Section 5-6, remove the scanner section.

Removing the LCD UNIT

2)   Loosen three screws of three covers, and remove three covers.

- After removing three covers, disconnect four connectors, and then remove four cables from the clamps.
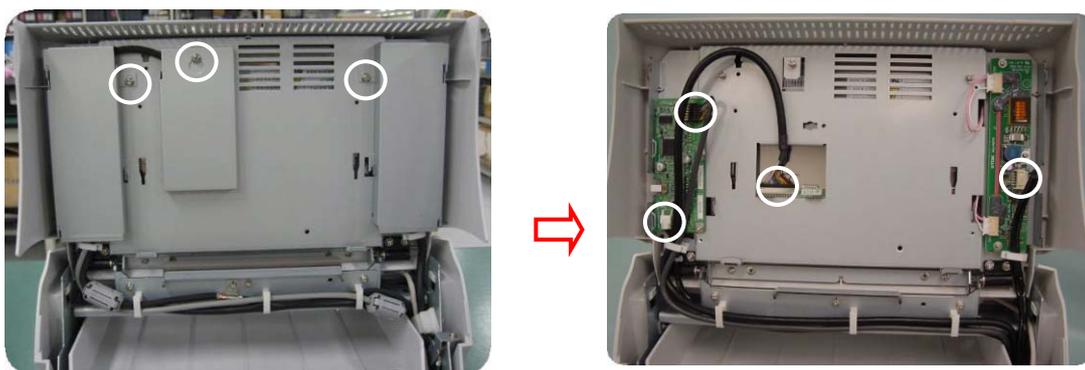
3)   Remove three screws of the fixing bracket for the LCD UNIT, and remove the LCD UNIT.

LCD UNIT

<Installation>
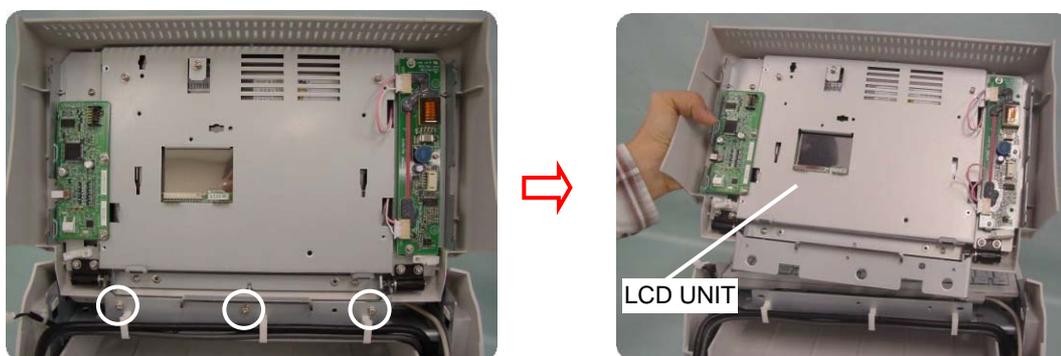
Follow the removing procedure in reverse.

Note: Be careful not to pinch your finger when closing the LCD cover.
      Do not press the Touch panel when returning the LCD cover. Doing so may damage the Touch panel.
      After the LCD is returned to its original position, check that the LCD cover is completely closed. If it is not
      closed completely, paper jams or feeding errors may occur.

After the replacement, calibrate the screen described in Section 6-3-6, and clear "LCD Running Time" by referring to Section 6-3-2-6.

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NewFEIMAS

5-15   (Reference) LCD

✎ **NOTICE**

- LCD is not a maintenance part. Replacement procedure is described here for your reference.

- Refer to Section 3-30 for the part number of the replacement part.

<Removal>

Removing the scanner section

1)   Referring to Section 5-6, remove the scanner section.

Removing the LCD UNIT

2)   Referring to steps 2) and 3) of Section 5-14 "LCD Unit", remove the LCD UNIT.

INVERTER

TSC PCA

Removing the TSC PCA

3)   Referring to step 2) of Section 5-16 "TSC PCA", remove the TSC PCA.

Removing the INVERTER

4)   Referring to step 2) of Section 5-17 "Inverter", remove the INVERTER.

Removing the LCD

5)   Remove eight screws and then the LCD Metal ASSY.

LCD Metal ASSY

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6) Turn over the LCD metal ASSY, remove four screws and then the LCD.

LCD

<Installation>
Follow the removing procedure in reverse.

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5-16   TSC PCA

◢ **NOTICE**

Refer to Section 3-32 for the part number of the replacement part.

<Removal>

Removing the scanner section

1)   Referring to Section 5-6, remove the scanner section.

Removing the TSC PCA

2)   Loosen a screw on the TSC PCA cover, and remove the cover.

Remove the following to remove the TSC PCA.

- Cable connectors (2 pc.)

- Flat cable (1 pc.)

- Screws (2 pc.)

TSC PCA
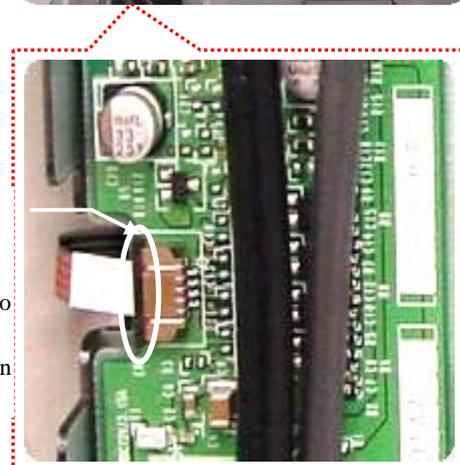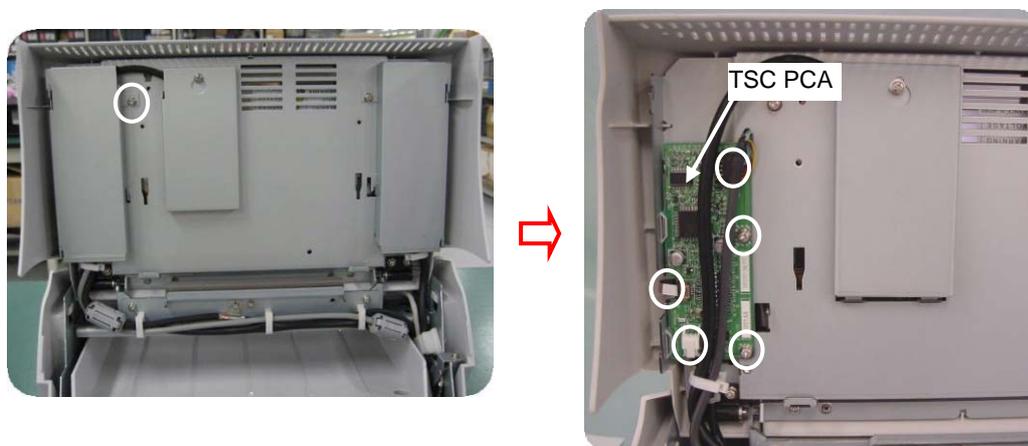
Note: Do not remove the cable stopper (black).

<How to remove the flat cable>

1. Pull out the flat cable stopper 1   1.5mm to the left.

2. Raise the flat cable stopper to the front, then remove the flat cable.

<Installation>

Follow the removing procedure in reverse.

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NewFEIMAS

5-17   INVERTER

⚐ **NOTICE**

Refer to Section 3-31 for the part number of the replacement part.

<Removal>

Removing the scanner section

1)   Referring to Section 5-6, remove the scanner section.

Removing the INVERTER

2)   Loosen a screw on the INVERTER cover, and remove the cover.

Remove the following to remove the INVERTER.

- Cable connectors (3 pc.)

- Screws (3 pc.)

INVERTER Cover

INVERTER

<Installation>

Follow the removing procedure in reverse.

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NewFEIMAS

5-18 KB UNIT

NOTICE

Refer to Section 3-27 for the part number of the replacement part.

<Removal>

Removing the scanner section
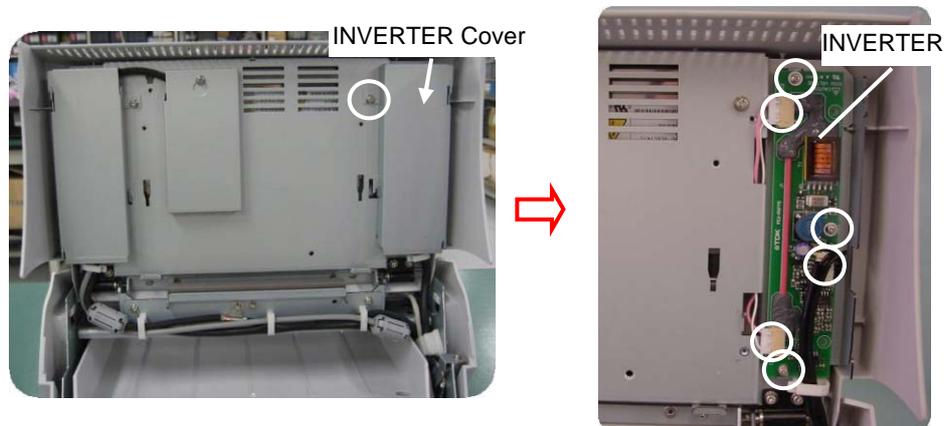
1) Referring to Section 5-6, remove the scanner section.

Removing the STACK COVER

2) Referring to step (2) of Section 5-20 "Fan Unit", remove the STACK COVER.

07

Removing the KB UNIT

3-a) If the KB-USB-CABLE is mounted,

Disconnect the KB cable from the KB-USB-CABLE (circle below), and then disconnect the KB-USB-CABLE from the USB connector at the back of the scanner.

KB cable

KB-USB-CABLE

3-b) If the KB-USB-CABLE is NOT mounted,

Disconnect the KB cable from the USB connector (circle below) at the back of the scanner.

KB cable

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4)   Remove the KB cable from the clamp.
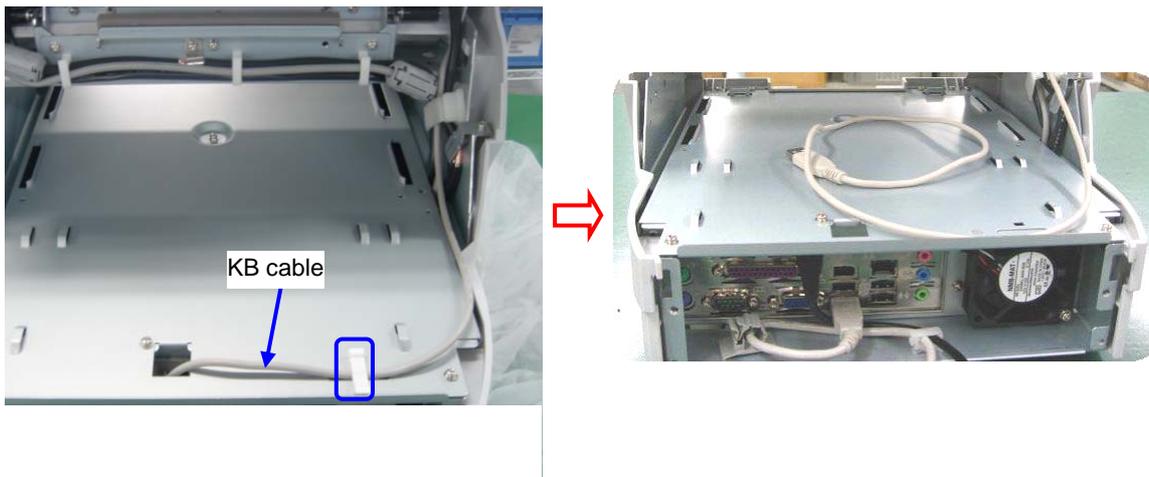
KB cable

5)   Remove two screws on the fixing bracket of the KB UNIT.
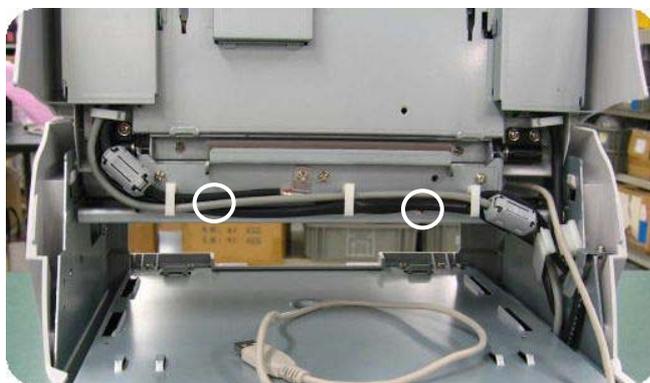
6)   Bump the KB UNIT against the front of the scanner, and raise the KB UNIT to remove it.
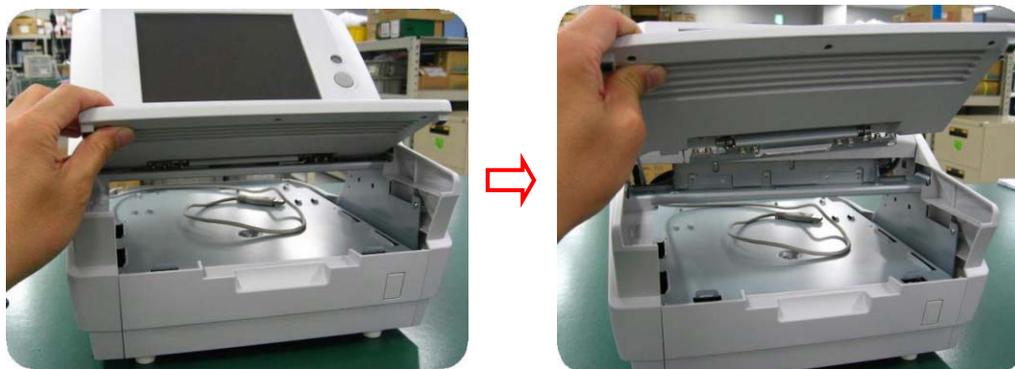
07
6)   If the KB-USB-CABLE is included in the KB UNIT, remove the KB-USB-CABLE from the device.

<Installation>
Follow the removing procedure in reverse.
07
If the new KB UNIT is PA03544-C921 (KB-USB-CABLE is included in KB UNIT):
- Install the new KB UNIT with the new KB-USB-CABLE.

If the new KB UNIT is PA03544-C929 (KB-USB-CABLE is NOT included in KB UNIT):
- Install the new KB UNIT.

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5-19 KB

⚠ **NOTICE**

Refer to Section 3-28 for the part number of the replacement part.

<Removal>

Removing the scanner section

1) Referring to Section 5-6, remove the scanner section.

Removing the KB UNIT

2) Referring to steps 2) ~ 4) of Section 5-18 "KB Unit", remove the KB UNIT.

Removing the KB

3) Remove four screws on the hinge plates to remove the hinge plates.
   - KB does not include the hinge plates

<Installation>
Follow the removing procedure in reverse.

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NewFEIMAS

5-20   FAN UNIT

⚠️ **NOTICE**

Refer to Section 3-26 for the part number of the replacement part.

The Fan Unit is located at rear of the scanner.

<Removal>

Removing the scanner section

1)   Referring to Section 5-6, remove the scanner section.

Removing the STACK COVER

2)   Remove two screws on the STACK COVER and pull the KB cable out of the hole of the PC TOP COVER.

      - After removing two screws, slide the STACK COVER to the rear of the scanner to remove.

STACK COVER

PC TOP COVER

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NewFEIMAS (vertical, left margin)

Removing the PC TOP COVER

3)   Remove three screws on PC TOP COVER at the rear of the scanner and four screws on it at the front of the scanner.

Front side
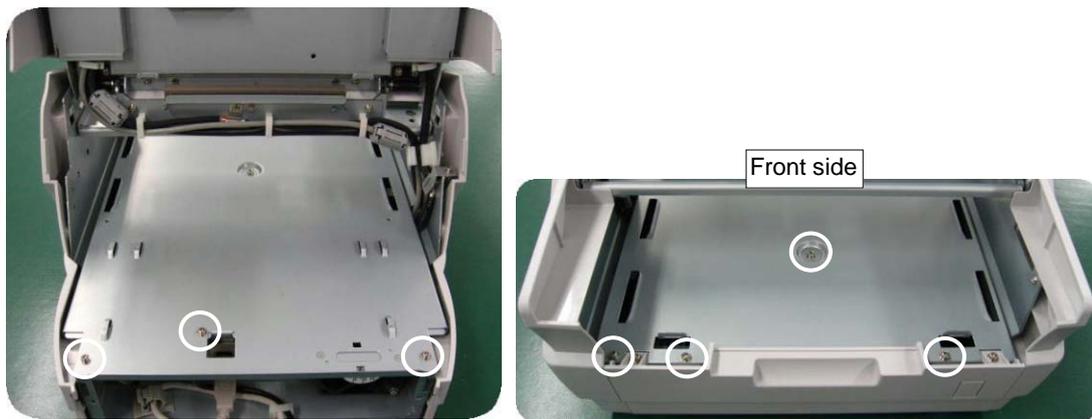
4)   Draw out the PC TOP COVER toward the rear of the scanner to remove.

PC TOP COVER

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Removing the FAN UNIT

5)   Remove two screws on the FAN UNIT, and then remove the FAN UNIT.

       - Remove the FAN UNIT cable (black/white/red) from the clamp.

       - Disconnect the FAN UNIT cable (black/white/red) from a connector at the front of the scanner.

FAN UNIT

Connector

<Installation>

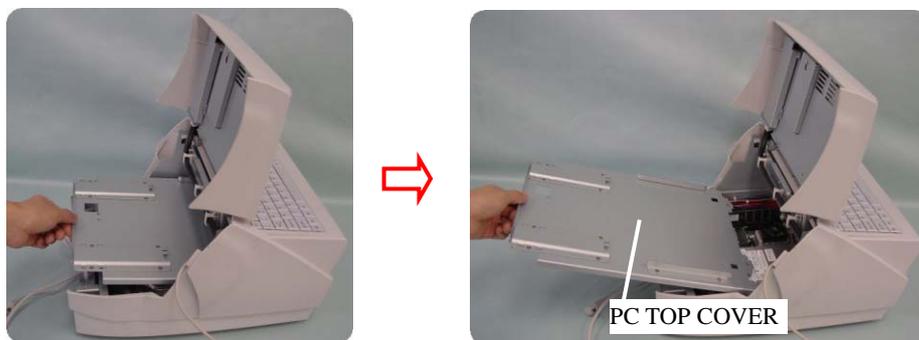Follow the removing procedure in reverse.

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NewFEIMAS

5-21   DCIN PCA

⬛ **NOTICE**

Refer to Section 3-25 for the part number of the replacement part.

The DCIN PCA is located at rear of the scanner.

<Removal>

Removing the scanner section

1)   Referring to Section 5-6, remove the scanner section.

Removing the STACK COVER

2)   Referring to step 2) of Section 5-20 "Fan Unit", remove the STACK COVER.

Removing the PC TOP COVER

3)   Referring to step 3) of Section 5-20 "Fan Unit", remove the PC TOP COVER.

Removing the DCIN PCA

4)   Remove a DC CONNECTOR on the DCIN PCA and two screws, and then remove the DCIN PCA.

- Disconnect the DCIN PCA cable (black/red) from a connector.

- Remove two screws from the bracket of the DCIN PCA, and then remove the bracket.

DCIN PCA

<Installation>
Follow the removing procedure in reverse.

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NewFEIMAS

5-22　HDD UNIT

◢ **NOTICE**

Refer to Section 3-24 for the part number of the replacement part.

<Removal>

Write down LCD usage time.

Referring to Section 6-3-8 "LCD Usage Time," take a note of the current LCD usage time.

Backup HDD data.

Ask the user to backup the user information. (If the data is to be saved by logging in with Maintenance Mode, refer to Appendix 2-6 "User Data Store."

Removing the scanner section

1)　Referring to Section 5-6, remove the scanner section.

Removing the STACK COVER

2)　Referring to step 2) of Section 5-20 "Fan Unit", remove the STACK COVER.

Removing the PC TOP COVER

3)　Referring to step 3) of Section 5-20 "Fan Unit", remove the PC TOP COVER.

Removing the HDD UNIT

4)　Remove two screws on the HDD UNIT.

　　- Draw out the HDD UNIT obliquely upward of the rear of the scanner.

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5)   Disconnect two connectors of the HDD UNIT.

6)   Remove four screws at the rear of the HDD UNIT and remove the METAL.

- HDD does not include the METAL.

<Installation>
Follow the removing procedure in reverse.

Note: Set the written down LCD usage time. (Refer to Section 6-3-8.)

Note: Perform the LCD calibration. (Refer to Section 6-3-9.)

Note: Let the user restore the user data. (To restore the data by logging in with Maintenance Mode, refer to Appendix 2-6 "User Data Store."
If the User data cannot be restored, ask the user to configure the system setting.

NewFEIMAS

5-23 MEMORY

⚠️ **NOTICE**

Refer to Section 3-23 for the part number of the replacement part.

<Removal>

Removing the scanner section

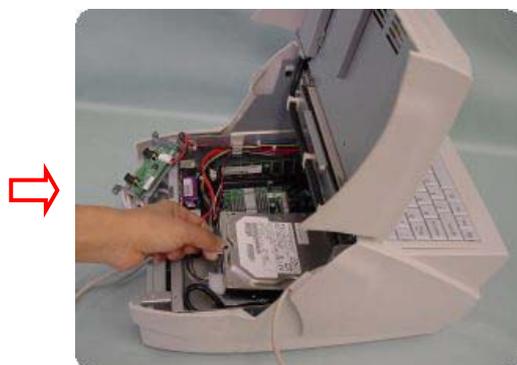1)   Referring to Section 5-6, remove the scanner section.

Removing the STACK COVER

2)   Referring to step 2) of Section 5-20 "Fan Unit", remove the STACK COVER.

Removing the PC TOP COVER

3)   Referring to step 3) of Section 5-20 "Fan Unit", remove the PC TOP COVER.

Removing the MEMORY

4)   Unlock the levers (locks) at both edges of the MEMORY (outer slot) and remove the MEMORY (outer slot).

<Installation>
Follow the removing procedure in reverse.

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NewFEIMAS

5-24 DC-DC MODULE

⚠ **NOTICE**

Refer to Section 3-21 for the part number of the replacement part.

The DC-DC MODULE is located at the front of the scanner.

<Removal>

Removing the scanner section

1) Referring to Section 5-6, remove the scanner section.

Removing the KB UNIT

2) Referring to steps 2) ~ 4) of Section 5-18 "KB Unit", remove the KB UNIT.
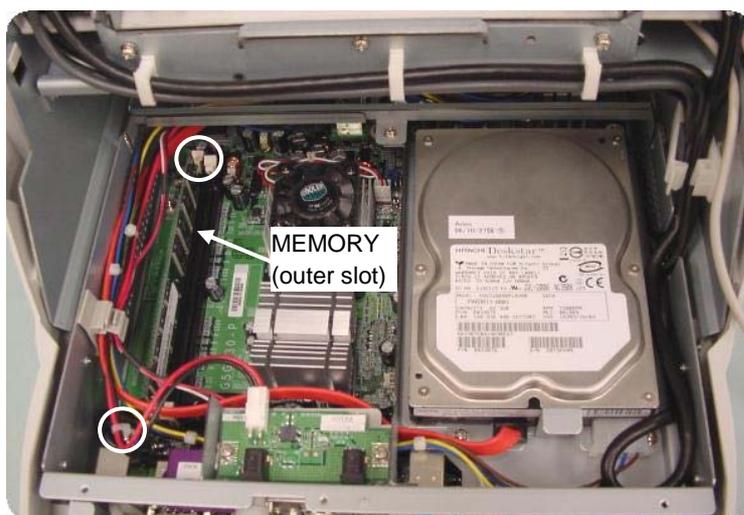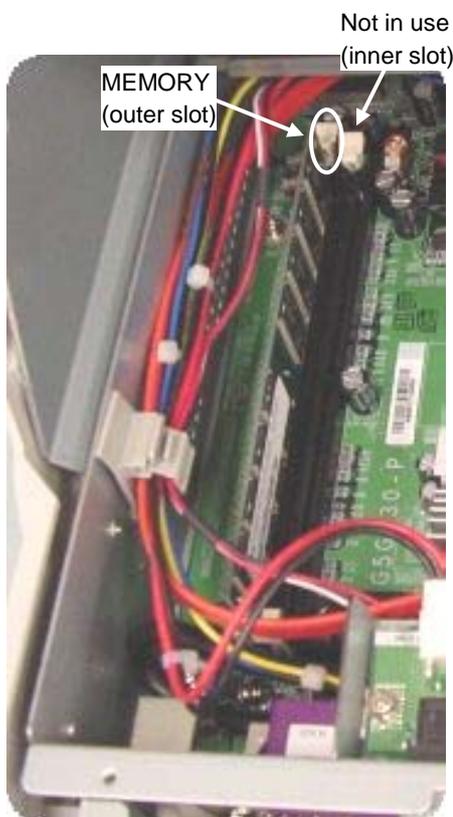
Removing the STACK COVER

3) Referring to step 2) of Section 5-20 "Fan Unit", remove the STACK COVER.

Removing the PC TOP COVER

4) Referring to step 3) of Section 5-20 "Fan Unit", remove the PC TOP COVER.

Removing the DC-DC MODULE

5) Remove four screws on the DC-DC MODULE, and disconnect the DC-DC MODULE cable from two connectors.

DC-DC MODULE

<Installation>
Follow the removing procedure in reverse.

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5-25 MB UNIT

⚠ **NOTICE**

    Refer to Section 3-22 for the part number of the replacement part.

<Removal>

Removing the scanner section

1)   Referring to Section 5-6, remove the scanner section.

Removing the LCD UNIT

2)   Referring to steps 6) and 7) of Section 5-14 "LCD Unit", remove the LCD UNIT.

Removing the KB UNIT

3)   Referring to steps 2) ~ 4) of Section 5-18 "KB Unit", remove the KB UNIT.
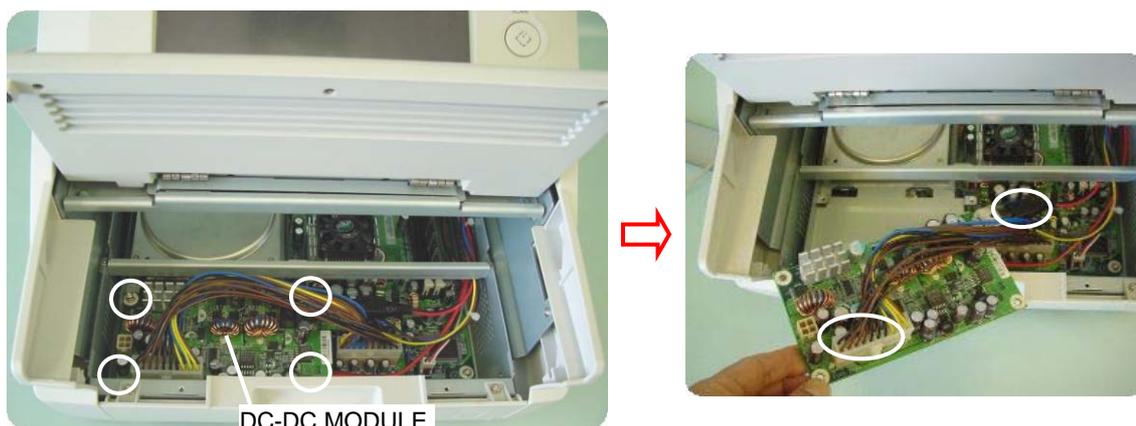
Removing the STACK COVER

4)   Referring to step 2) of Section 5-20 "Fan Unit", remove the STACK COVER.

Removing the PC TOP COVER

5)   Referring to step 3) of Section 5-20 "Fan Unit", remove the PC TOP COVER.

Removing the DCIN PCA

6)   Referring to step 4) of Section 5-21 "DCIN PCA", remove the DCIN PCA.

Removing the HD UNIT

7)   Referring to step 4) of Section 5-22 "HDD Unit", remove the HDD UNIT.

Removing the DC-DC MODULE

8)   Referring to step 4) of Section 5-24 "DC-DC Module", remove the DC-DC MODULE.

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NewFEIMAS

Removing the HDD BASE

9) Remove three screws the HDD BASE.

- Draw out the HDD BASE obliquely upward to the rear of the scanner.

HDD BASE
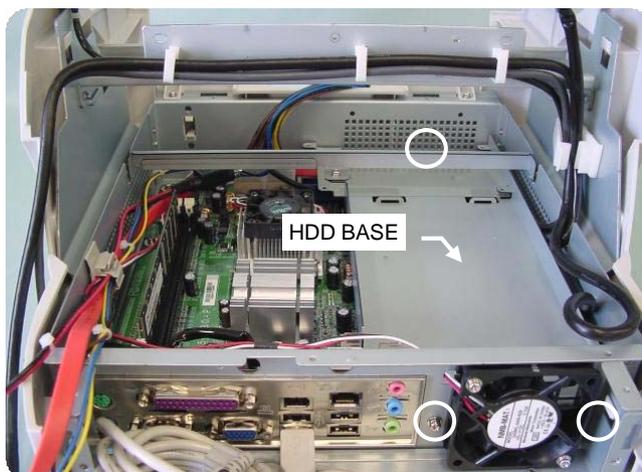
USB cable

10) Disconnect the USB cable at the backside of the scanner.

11) Remove three screws at the rear of the MB UNIT.

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12) Remove five screws at the front of the MB UNIT.

13) Disconnect three connectors of the cables at the front side of the scanner.

SATA1
(HDD UNIT)

SATA2
(Not in use)

DC-DC
MODULE

FAN UNIT

14) Disconnect two connectors of the cables at the rear side of the scanner.

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NewFEIMAS

15) Disconnect three connectors (solid squares) of the cables at the left side of the scanner.
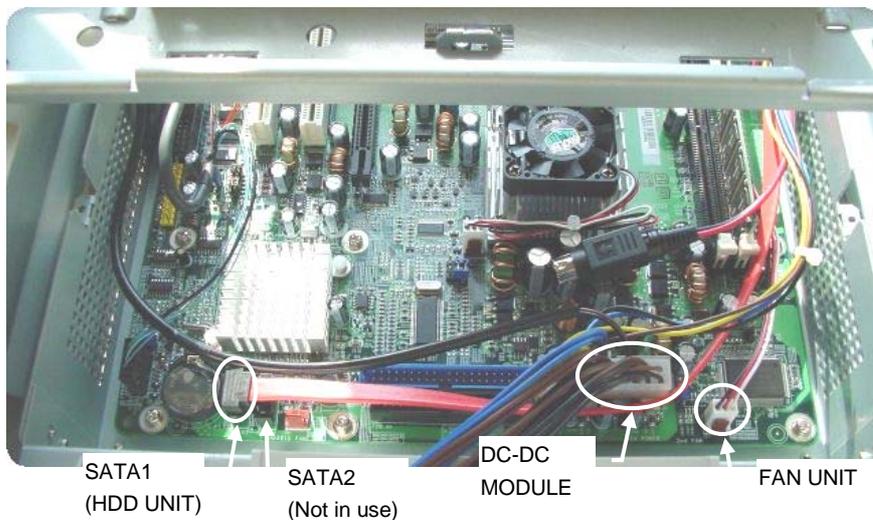

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16) Draw out the MB UNIT.

<Installation>

Follow the removing procedure in reverse.

Note: Check the cable tag and silk of the mother board before connecting the COM3 cable.

Note: Connect the HDD cable to SATA1 (See dotted square above). Do not be confused with SATA2 which shapes the same as SATA1.

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5-26   PC BOX UNIT

⟋ **NOTICE**

Refer to Section 3-20 for the part number of the replacement part.

The PC BOX UNIT includes the SIDE COVER L and SIDE COVER R.

<Removal>

Removing the scanner section

1)   Referring to Section 5-6, remove the scanner section.

Removing the LCD UNIT

2)   Referring to steps 6) and 7) of Section 5-14 "LCD Unit", remove the LCD UNIT.

Removing the KB UNIT

3)   Referring to steps 2) ~ 4) of Section 5-18 "KB Unit", remove the KB UNIT.

Removing the STACK COVER

4)   Referring to step 2) of Section 5-20 "Fan Unit", remove the STACK COVER.

* The remaining part is the PC BOX UNIT.

<Installation>

Follow the removing procedure in reverse.

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Chapter 6 Adjustment/Settings

6-1 Maintenance mode

The scanner supports built-in Maintenance mode that allows users to check scanner's performance and settings. This section gives the description of Maintenance mode.

6-1-1 Activating the Maintenance mode

1) How to activate the Maintenance mode

1) Referring to Section 5-6, remove the scanner section from the device.
2) Connect the power cable to the scanner. (Do not connect the AC cable to a power outlet yet.)
3) Open the ADF. While pressing the Scan button, insert the power cable into a power outlet.
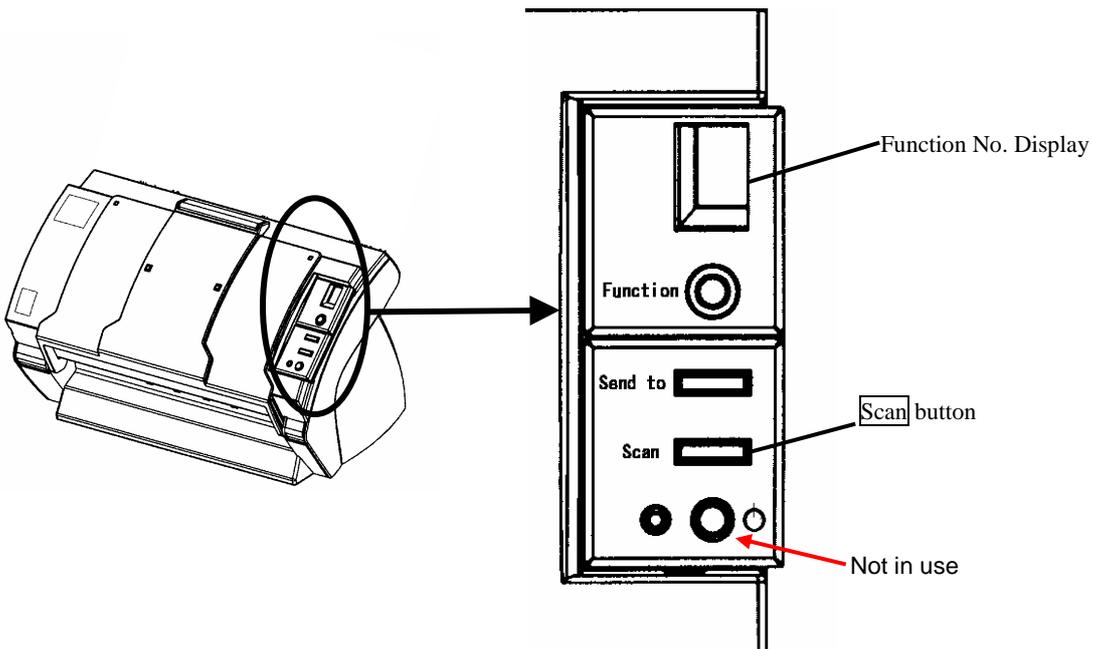
4) Keep pressing the Scan button until "-" is displayed on the Function Number Display.

When Maintenance mode is activated normally after the initial processing, the following display appears.
Screen T04

Function No. Display	Power LED	Scanner status
	ON	Maintenance mode #1 selected

2) How to exit the Maintenance mode
Pull out the AC cable.

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3) Test/adjustment items of the Maintenance mode

The following lists test/adjustment items #1 ~ #7 that are supported by the scanner.

Mode 1: Paper transportation / Sensor / Background changeover test

Mode 2: Main scanning/Sub-scanning magnification adjustment

Mode 3: Offset adjustment

Mode 4: White level adjustment

Mode 5: Consumables counter display and reset

Mode 6: Miscellaneous information display

Mode 7: EEPROM data restore

4) Changing Maintenance mode

To change Maintenance modes (#1 ~ #7), press the Function button on the activation screen for Maintenance mode.
The display changes as follows. Mode #1 is the default mode.

Maintenance mode No.	Display			Maintenance mode	Related section
	Function No. Display	Power LED	Status transition		
#1		ON		Paper feeding / Sensor / Background changeover test	6-1-2
#2		ON		Main-scanning/ Sub-scanning magnification adjustment	6-1-3
#3		ON		Offset adjustment	6-1-4
#4		ON		White level adjustment	6-1-5
#5		ON		Consumables counter display and reset	6-1-6
#6		ON		Miscellaneous information display	6-1-7
#7		ON		EEPROM data restore	6-1-8
#8		ON		(Reserved) Press Function button to return to #1.	

4) Starting the Maintenance mode

Select one Maintenance mode and press Scan button. The scanner activates the selected Maintenance mode.

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6-1-2   Maintenance mode #1: Paper feeding / Sensor / Background changeover test

This mode tests the ADF/FB paper feeding operation at the specified speed, checks each sensor status (ON/OFF) of the ADF sensors, and tests background changeover.

[How to start]

1) From screen T04, press the Function (or   ) button to select ▢ (Maintenance mode #1) and press the Scan button. The selection screen for scanning speed/sensor/Background changeover test appears. A number is shown on the Function No. Display indicating the selected scanning speed or test mode as follows.

Function No. Display	Scanning speed/test mode	Remarks
0	Monochrome 400 dpi	Default
1	Monochrome 300 dpi	
2	Monochrome 240 dpi	
3	Monochrome 200 dpi	
4	Monochrome 100 dpi	
5	Monochrome 150 dpi	
6	Monochrome 600 dpi	
7	Sensor test	
8	Background changeover test	

<Paper feeding test>

2) Select a scanning speed from 0 to 6 (this varies depending on the scanning resolution) from 0 ~ 6 by pressing the Function button.

3) To test the continuous feeding operation, press the Scan button. The ADF operation is started if any paper on the ADF paper chute (Chute unit) (Hopper empty sensor = Sensor EM ON).
To test the one-sheet feeding operation, while pressing the Send to button, press the Scan button, which switches to the one-sheet feeding operation mode.   Then let go of the Send to button, then the Scan button in order. The ADF operation is started if any paper on the ADF paper chute (Chute unit) (Hopper empty sensor = Sensor EM ON).

4)   Select whether imprinting is necessary or not by pressing the Function button.
Screen T11

Function No. display	Scanner status
▟	"-" lights without blinking. NO imprinting (default)

Screen T12

Function No. display	Scanner status
▛	"P" lights without blinking. Imprinting

<Available buttons at Screen T11 and T12>
Function button: Switches between Screens T11 and T12 every press.
Send to button: Terminates this mode and returns to Screen T04.

5)   Press the Scan button. The ADF operation is started if any paper on the ADF paper chute (Chute unit) (Hopper empty sensor = Sensor EM ON).

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<Sensor test>

2) By pressing the Scan button while "7" is shown on the display, the scanner enters Sensor test mode.

The following table shows how the sensor status is displayed while the sensor test is in progress.

Function No. Display	Description *2	Display
1 2 □ 4 5 3 7 6	1: Reserved	
	2: indicates Hopper empty sensor status	Illuminates when the sensor is ON (Paper is loaded on the ADF chute)
	3: indicates PICK sensor status	Illuminates when the sensor is ON (Paper is detected)
	4: indicates TOP sensor status	Illuminates when the sensor is ON (Paper is detected)
	5: indicates Cover Open Sensor status	Illuminates when the sensor is OFF (Cover is open) *1
	6: Reserved	
	7: indicates Multi feed sensor (US Sensor) status	Illuminates when the sensor is ON (Paper is detected) *2

*1: This sensor test should be conducted by opening/closing the ADF cover. If the Cover open sensor is pressed by anything while the ADF cover is open, the Multi feed sensor (US Sensor) turns ON, causing position "7" to light as well.

*2: The confirmation of US sensor is available only when the document is fed by pressing the Function button as described below. You cannot confirm US sensor by just inserting document (no feeding) between US sensors.

During the sensor test, you can check the sensor status (ON/OFF) when the document passes through the ADF by the following procedure:

1. Press the Function button. The ADF Motor starts to rotate.

2. Set the document into the ADF paper chute (Chute unit).

<Background changeover test>

2) By pressing the Scan button while "8" is shown on the display, the scanner starts Background changeover test.

The testing is confirmed by opening the ADF.

[How to end]

Press the Send to button. The test stops and the Maintenance mode selection Screen T04 appears. The ADF continuous feeding operation is also terminated when no more paper on the ADF paper chute (Chute unit).

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6-1-3   Maintenance mode #2: Main scanning / Sub-scanning magnification adjustment

In this mode, the magnification correction values for main/sub scanning are automatically calculated to satisfy the following adjustment value.

Adjustment value
Main scanning: Within   ±1.0%
Sub scanning: Within   ±1.0% (Without stop and start during scanning)
    :   Within   ±2.0% (With stop and start during scanning)

NOTICE

Before this adjustment, please prepare the Test sheet described in Figure 6-1-3.
If Main-scanning magnification (ADF front or back) is adjusted, then run Offset adjustment (ADF front or back) described in Section 6-1-4.

[How to start]

1) From screen T04, Press the Function (or   ) button to select (Maintenance mode #2) and press the Scan button. A number is shown on the Function No. Display indicating the magnification to be adjusted as follows:

Function No. Display	Magnification to be adjusted	Remarks
0	ADF sub- scanning magnification adjustment	Default
1	ADF main scanning magnification adjustment (front)	
2	ADF main scanning magnification adjustment (back)	

2) Select the magnification you want to change by pressing Function button.

3) Set the Test sheet on the ADF paper chute (Chute Unit), and adjust the side guide to the width of the test sheet.

   Press Scan button to start the adjustment.

[How to end]

Press Send to button during operation. The operation stops and the Maintenance mode selection screen (T04) appears.

[Display after adjustment]

After the magnification adjustment, the following display appears depending on its terminated status.

1) When the magnification adjustment is terminated normally

Screen T21

Function No. Display	Scanner status
	Displays "o" without blinking.

<Available buttons at screen T21>
Function button: Displays screen T22 to write the correction value into EEPROM.

Send to button: Terminates this mode and returns to screen T04.

Screen T22

Function No. Display	Scanner status
	"o" (lower half) blinks.

<Available buttons at screen T22>
Scan + Function button: Starts writing the magnification correction value into EEPROM. During writing operation, screen T23 displayed, and when it finishes, screen T24 appears.

Send to button: Terminates this mode and returns to screen T04.

Screen T23

Function No. Display	Scanner status
	"L" lights without blinking.

Note: While screen T23 is displayed, no button can function.

Screen T24

Function No. Display	Scanner status
	"o" (upper half) lights without blinking.

<Available buttons at screen T24>
Send to button: Terminates this mode and returns to screen T04.

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2) When the magnification adjustment is terminated abnormally

Screen T25

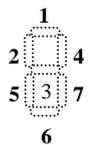| Function No. Display	Scanner status
	Displays "c" without blinking. .

Note: The major reason of abnormal termination is incorrect setting of the test sheet. Set the test sheet correctly and try the magnification adjustment again.

<Available buttons at screen T25>

Function button: Displays error information (screen T26)

Send to button: Terminates this mode and returns to screen T04.

Screen T26

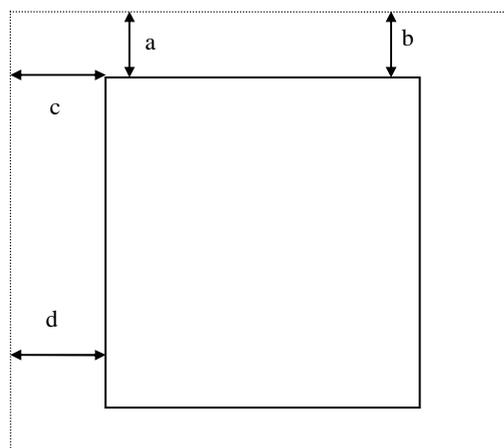| Function No. Display	Description	Adjustment mode (*1) 0	Adjustment mode (*1) 1,2	Remarks
1 2 4 5 3 7 6	1: cannot detect the leading edge of the document	√		
	2: cannot detect the left edge of the document		√	
	4: cannot detect the right edge of the document		√	
	5: Excessive skew A		√	
	6: cannot detect the trailing edge of the document	√		
	7: Excessive skew B		√	

(*1)   0 : ADF sub scanning magnification adjustment
     1,2: ADF front/back main scanning magnification adjustment

Skew A and B are calculated as follows:
        Skew A = a – b
   Skew B = c – d

<Available button at screen T26>
Send to button: Terminates this mode and returns to screen T04.

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[Test sheet]

Use the test sheet for the magnification/offset adjustment that meets the following specification.
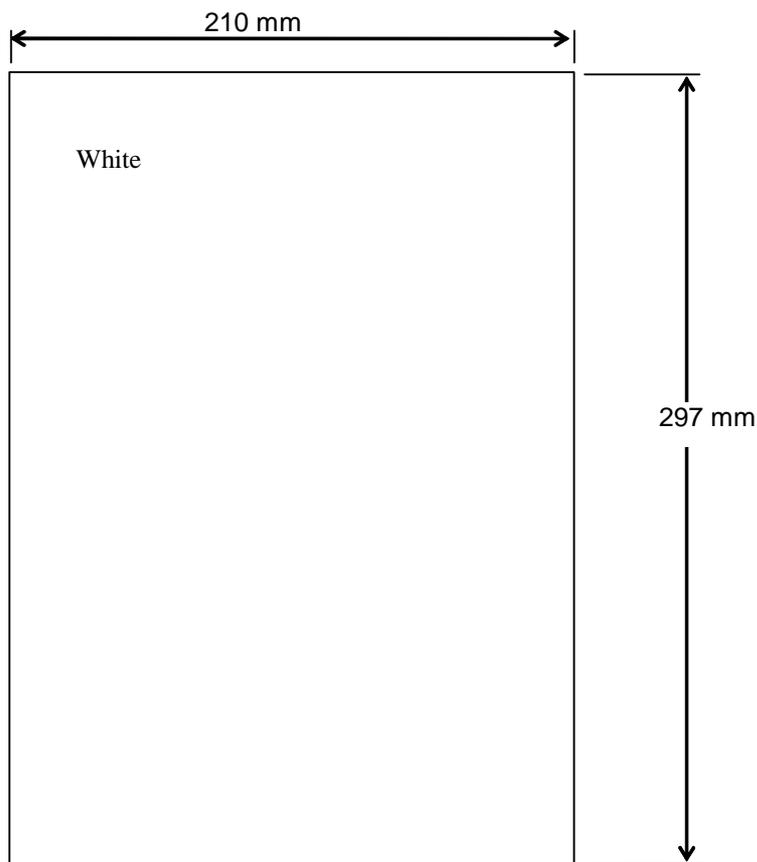
Use Normal A4 office paper.
(White level adjustment sheet can
also be used.)

Figure 6-1-3 Test sheet for the magnification/offset adjustment

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6-1-4   Maintenance mode #3: Offset adjustment

In this mode, the offset correction values for main/sub scanning are automatically calculated to satisfy the following offset values:

Offset value
Main scanning: The largest offset of A6 or larger size of document shall be: ± 24 dot
Sub-scanning: The largest offset of A6 or larger size of document shall be: ± 33 dot

✎ NOTICE

Before this adjustment, please prepare the Test sheet described in Figure 6-1-3.
Also, before adjusting offset (ADF front or back), run Main-scanning magnification adjustment (ADF front or back) by referring to Section 6-1-3.

[How to start]
1) From screen T04, Press the Function (or) button to select ⊟ (Maintenance mode #3) and press the Scan button. A number is shown on the Function No. Display indicating the location of the offset to be adjusted.

Function No. Display	Offset to be adjusted	Remarks
0	ADF front	Default
1	ADF back	

2) Change the selection by pressing Function button.

3) Set the test sheet (see Figure 6-1-3) on the ADF paper chute (Chute Unit), and adjust the side guide to the width of the test sheet.

   Press Scan button to start the adjustment operation.

[How to end]

Press Send to button during operation. The operation stops and the Maintenance mode selection screen (T04) appears.

[Display after adjustment]

After the offset adjustment, the following display appears depending on its terminated status.

1) When the offset adjustment is terminated normally

Screen T31

Function No. Display	Scanner status
	Displays "o" without blinking. The adjustment has terminated normally.

<Available buttons at screen T31>
Function button: Displays screen T32 to write the correction value into EEPROM.

Send to button: Terminates this mode and return to screen T04.

Screen T32

Function No. Display	Scanner status
	"o" (lower half) blinks. Confirming whether the correction value shall be written in EEPROM or not.

<Available buttons at screen T32>
Scan + Function button: Start writing the offset correction value into EEPROM. During writing operation, screen T33 displayed, and when it finishes, screen T34 appears.

Send to button: Terminates this mode and returns to screen T04.

Screen T33

Function No. Display	Scanner status
	"L" lights without blinking. Correction value is being written in EEPROM.

Note: While screen T33 is displayed, no button can function.

Screen T34

Function No. Display	Scanner status
	"o" (upper half) lights without blinking. The value has been written normally.

<Available buttons at screen T34>
Send to button: Terminates this mode and returns to screen T04

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2) When the offset adjustment is terminated abnormally

Screen T35

| Function No. Display	Scanner status
	Displays "c" without blinking. The adjustment has terminated abnormally.

Note: The major reason of abnormal termination is incorrect setting of the test sheet. Set the test sheet correctly and try the magnification adjustment again.

<Available buttons at screen T35>

Function button: Displays error information (screen T36)

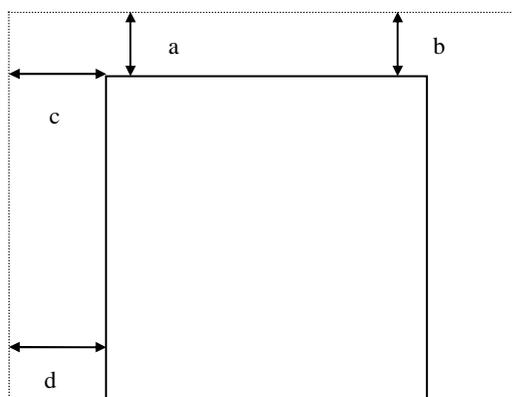Send to button: Terminates this mode and returns to screen T04.

Screen T36
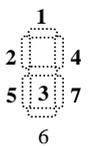
Function No. Display	Description	Adjustment mode (*1) 0	1,2	Remarks
1 2 **4** 5 **3** 7 6	1: cannot detect the leading edge of the document (black detection failed)	√	√	
	2: cannot detect the left edge of the document (black detection failed)	√	√	
	3: cannot detect the leading edge of the document (white detection failed)	√	√	
	4: Excessive skew A	√	√	
	5: cannot detect the left edge of the document (white detection failed)	√	√	
	7: Excessive skew B	√	√	

(*1)   0 : ADF front
       1,2: ADF back

Skew A and B are calculated by the following expression.

Skew A = a – b
Skew B = c – d

<Available buttons at screen T36>
Send to button: Terminates this mode and returns to screen T04.

[Test sheet]
Use the same sheet as used for the magnification adjustment. See Section 6-1-3.

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6-1-5   Maintenance mode #4: White level adjustment

In this mode, the white level correction values for main/sub scanning are automatically adjusted.

✎ NOTICE

Before this adjustment, please prepare the Test sheet described in Section 5-4.

[How to start]

1) From screen T04, press the Function (or   ) button to select ⬚(Maintenance mode #4) and press the Scan button.   A number is shown on the Function No. Display indicating the location of the white level to be adjusted.

Function No. Display	White level to be adjusted	Remarks
0	ADF front	Default
1	ADF back	

2) Change the selection by pressing Function button.

3) Set the adjustment test sheet on the ADF paper chute (Chute Unit) and adjust the side guide to the width of the test   sheet. Either side of the adjustment test sheet can be used. Press Scan button to start the adjustment operation.

Note: The adjustment starts approx. 10 seconds after pressing Scan button to make the light intensity becomes stable.

[How to end]

Press Send to button during operation. The operation stops and the Maintenance mode selection screen (T04) appears.

Note: After reading the white level adjustment sheet, it takes approx. 10 seconds for the scanner to calculate the level adjustment and close adjustment.

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[Display after adjustment]

After the white level adjustment, the following display appears depending on its terminated status.

1) When the white level adjustment is terminated normally

Screen T41

Function No. Display	Scanner status
	Displays "o" without blinking. The adjustment has terminated normally.

<Available buttons at screen T41>
Function button: Displays screen T42 to write the correction value into EEPROM.
Send to button: Terminates this mode and returns to screen T04.

Screen T42

Function No. Display	Scanner status
	"o" (lower half) blinks. Confirming whether the correction value shall be written in EEPROM or not.

<Available buttons at screen T42>
Scan + Function button: Start writing the white level correction value into EEPROM. During writing operation, screen T43 displayed, and when it finishes, screen T44 appears
Send to button   : Terminates this mode and returns to screen T04.

Screen T43

Function No. Display	Scanner status
	"L" lights without blinking. Correction value is being written in EEPROM.

Note: While screen T43 is displayed, no button can function.

Screen T44

Function No. Display	Scanner status
	"o" (upper half) lights without blinking. The value has written normally.

<Available buttons at screen T44>
Send to button: Terminates this mode and returns to screen T04.

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2) When the white level adjustment is terminated abnormally

Screen T45

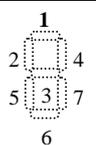| Function No. Display	Scanner status
	Displays "c". The adjustment has terminated abnormally.

Note: The major reason of abnormal termination is incorrect setting of the test sheet. Set the test sheet correctly and try the magnification adjustment again.

<Available buttons at screen T45>

Function button: Displays error information (screen T46)

Send to button: Terminates this mode and returns to screen T04.

Screen T46

Function No. Display	Description	Countermeasure when abnormal termination frequently occurs
1 2 4 5 **3** 7 6	1: media error The tested sheet may not be a specified one. Please confirm the test sheet is good.	It seems Lamp or Optical Unit is faulty. Replace defective parts.

<Available buttons at screen T46>
Send to button: Terminates this mode and return to screen T04.

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6-1-6   Maintenance mode #5: Consumable counter display and reset

In this mode, the following consumable counter is displayed and reset:
- Pick counter (Abrasion counter for Pick roller)
- Pad counter (Abrasion counter for Pad ASSY)

[How to operate]

1) From screen T04, press the Function (or   ) button to select ⬚ (Maintenance mode #5) and press the Scan button. A number is shown on the Function No. Display indicating the counters as follows.

Function No. Display	White level to be adjusted	Remarks
0	Pick counter (Abrasion counter for Pick roller)	Default
1	Pad counter (Abrasion counter for Pad ASSY)	
2	(Reserved)	

2) Change the selection by pressing Function button.

3) The counter is displayed as follows when pressing Scan button.

Counter	Display
Pick counter (Abrasion counter for Pick roller)	The counter displays 8 digits in total, 1 number at a time, from left digit to right digit. (If the counter has not reached 8 digits yet, 0 is added to blank digits.) The symbol "-" is displayed before the first number, indicating the counter display starts. The counter displays "0" until it reaches 500, and increases in 10 increments after 500. eg. When the counter is "16,245", "-00016245" is displayed in the following order: "-" → "0" → "0" → "0" → "1" →"6" → "2" → "4" → "0"
Pad counter (Abrasion counter for Pad ASSY)	See above

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4) The following buttons are available during counter display.

Function button: Displays screen T51 to reset the counter.
Send to button: Terminates this mode and returns to screen T04.

Screen T51

Function No. Display	Scanner status
	"o" (lower half) blinks. Confirming whether the counter shall be reset or not.

<Available buttons at screen T51>
Scan + Function button: Starts resetting the displayed counter value to 0. During writing operation, screen T52 displayed, and
when it finishes, screen T53 appears.

Note: After reset, the counter value below 500 remains without being reset and that value will be the initial value of the
internal counter, but this is not an error.
eg.) When "52,168" is reset, 168 remains and the internal counter will start counting from 168, while Function
No. Display shows 0.

Send to button: Terminates this mode and returns to screen T04.

Screen T52

Function No. Display	Scanner status
	"L" lights without blinking. The counter is being reset.

Note: While screen T52 is displayed, no button can function.

Screen T53

Function No. Display	Scanner status
	"o" (upper half) lights without blinking. Counter reset has done.

<Available buttons at screen T53>
Send to button: Terminates this mode and returns to screen T04.

6-1-7   Maintenance mode #6: Miscellaneous information display

In this mode, the following information counter is displayed:
- Firmware version number
- Starting date of the scanner *
- The accumulated number of paper that have been scanned by ADF

*: This indicates the date when the scanner is activated by the driver first. This information is only available if the driver supports this function.

[How to start]

1) Selects Maintenance mode #6 in screen T04 and press Scan button. A number appears on the Function No. Display indicating the information.

Function No. Display	Display	Remarks
0	Firmware version	Default
1	Starting date of the scanner	
2	The accumulated number of paper scanned by ADF	

2) Change the selection by pressing Function button.
3) The information is displayed as follows when pressing Scan button.

Information	Display
Firmware version number	The firmware version number is displayed in 4 digits from left digits to right digits, following the symbol "-". eg. When the scanner version is "A00" (*1), "A" is converted to "01" (*2), so the scanner displays "-0100" in the following order: "-" → "0" → "1" → "0" → "0" "A" is converted to "01" (*2)
Starting date	Starting date of the scanner is displayed in 6 digits, 2 digits for "Year (Christian calendar)", 2 digits for "Month", and 2 digits for "Date", following the symbol "-". You cannot reset the date. eg. When the starting date is January 31st, 2002, "020131" is displayed in the following order: "-" → "0" → "2" → 0 → "1" → "3" → "1"
The accumulated number of paper scanned by ADF	The accumulated number of paper scanned by ADF is displayed in 8 digits from left digits to right digits, following the symbol "-". (If the counter does not reach 8 digits, 0 is added to blank digits.) The counter displays "0" until it reaches 500, and increases in 10 increments after 500. You cannot reset this counter. eg. When the accumulated number is "16,245", "00016240" is displayed in the following order: "-" → "0" → "0" → "0" → "1" → "6" → "2" → "4" → "0"

*1: The firmware version is normally expressed by an alphabet, such as A, B or C. However, if the firmware is a beta version, two digits are added after alphabet character, such as A01, A02 or A03. So the firmware version like A00, B00 or C00 means this is an official version.

*2: As the Function No. Display cannot display alphabet, alphabet is expressed by two digits as follows:

A	B	C	----------	J	K	L
01	02	03	-----------	10	11	**12**

[How to end]
Press Send to button. The display returns to screen T04.

6-1-8   Maintenance mode #7: EEPROM data restore

When replacing the Panel PCA, the EEPROM data on the Panel PCA shall be moved to the flash memory of the Control PCA. In this mode, the data is restored from the Control PCA to the Panel PCA.

[How to start]
1) Selects Maintenance mode #7 in screen T04 and press Scan button. The following display appears.

Screen T71

Function No. Display	Scanner status
	"o" (lower half) blinks. Confirming whether the data shall be restored or not.

<Available buttons at screen T71>
Scan + Function button: Returns the data from the Control PCA to the EEPROM on the Panel PCA. During restoring operation, screen T72 is displayed.
Send to button: Terminates this mode and returns to screen T04.

Screen T72

Function No. Display	Scanner status
	"L" lights without blinking. The data is being restored.

Note: While screen T72 is displayed, no button can function.

[Display of the result]

1) When the data restore terminated normally, the following display appears.

Screen T73

Function No. Display	Scanner status
	Displays "o" (upper half) without blinking. The data has restored normally.

<Available buttons at screen T73>
Send to button: Terminates this mode and returns to screen T04.

2)   When no data exists in the Control PCA, the following display appears.

Screen T74

Function No. Display	Scanner status
	Displays "c" without blinking. No data exists in the Control PCA.

<Available buttons at screen T74>
Send to button: Terminates this mode and returns to screen T04.

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6-2   Saving EEPROM data

The EEPROM data on the Panel PCA can be saved on the flash memory of the Control PCA. This operation is needed before replacing the Panel PCA. Since this operation is taken when the Panel PCA is malfunctioning, save data by following the procedure below without using the operator panel.

✎ NOTICE

- Do not conduct this procedure unless the Panel PCA is malfunctioning.
- The Panel PCA from which the data was saved to the Control PCA cannot be used again.
- Make sure to prepare a new Panel PCA before saving the EEPROM data.

[How to save EEPROM data on the Control PCA]
1)   Connect the AC adapter and AC cable to the scanner. (Do not connect the AC cable to a power outlet yet.)
2)   Open the ADF. While pressing the TOP sensor lever and lifting up the Hopper empty sensor lever, insert the AC cable into a power outlet. "P" → " H " are displayed.
3)   Leave your fingers from TOP sensor and Hopper empty sensor lever. Then press TOP sensor lever two times, so that the time interval between pressing and removing is more than 1 second.
4)   Close the ADF. "L" is displayed when the Function No. Display is working normally.
5)   After more than 5 seconds elapse, open the ADF.

When the EEPROM data is successfully saved, the Lamp of ADF front blinks 3 times and "o" (upper half) is displayed on the Function No. Display.
In case that the EEPROM data is not successfully saved, the Lamp does not blink and "c" is displayed on the Function No. Display.

✎ NOTICE

 If EEPROM data is saved successfully, scanner writes some information on the Panel PCA which disables the usage of the Panel PCA. So this Panel PCA cannot be used. The replacement of the Panel PCA is required. If the Panel PCA is not replaced, "E6" always appear on the panel at power on.

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6-3　Maintenance Program

6-3-1　Functions

After replacing the maintenance parts, perform adjustment and operation test of the device.

No.	Test Item	Function	Reference section
1	Touch Panel	Checks if there is no displacement on the touch panel by pressing arbitrary coordinates to invert.	6-3-3
2	LAN	Performs communication test with the specified device by ping.	6-3-4
3	DISPLAY	Checks dead pixels on the display, screen flickering, and center display with RGB/display/pattern display.	6-3-5
4	SCAN Switch	Checks ON/OFF of the [SCAN] button.	6-3-6
5	SCANNER	Checks the functions of the scanner section. Cleans the rollers.	6-3-7
6	LCD Usage Time	Clears LCD RAS log information.	6-3-8
7	Calibrating the touch panel	Calibrates the LCD.	6-3-9

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6-3-2   Starting Maintenance Program

1) When the power is off or the scanner is in the Stand-by mode, press the Startup button.
   → The "Login" screen appears.
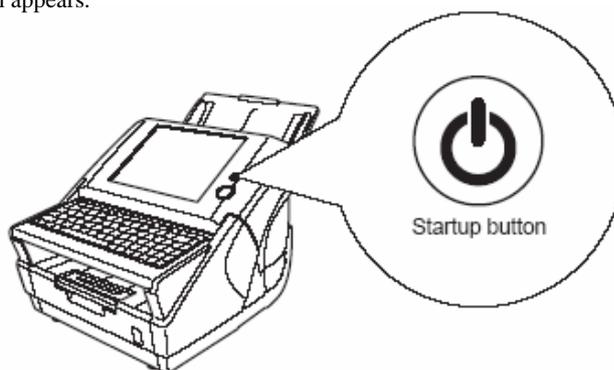
2) Log in with Maintenance mode. The user name and the password are as follows:

Model name	Login mode	User name	Password
fi-6000NS	Maintenance Mode	fi-maintenance	fi-scanner6-maintenance
fi-6010N			

   - Enter the user name and the password, and then press the [Login] button.

   → "Menu" screen appears.

[Notes When Logging in with Maintenance Mode]
If you logged in with Maintenance mode, the screen (program) can be switched by pressing the [Alt + TAB] keys.
When activating the Maintenance Program or when the screen that you want to see is hidden during operation, this switching function is effective.
Switching the screen can log off without exiting the Maintenance Program, but be sure to exit the Maintenance Program before logging off.
On fi-6010N, [Alt + TAB] keys becomes invalid.
On fi-6000NS, once the device enters the Maintenance mode, [Alt + TAB] keys is valid even after logoff. If you performed the Maintenance operation, restart the device.

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3) Select the [Diagnosis] on the top menu.
➔ "TP Main" screen appears.

NewFEIMAS (vertical left margin text)

Maintenance Test Program - Pattern settings V2.0L12

Select a test target.

Test Log

Touch Panel   LAN   DISPLAY   SCAN Switch   SCANNER

LCD Usage Time

End(F1)   Run
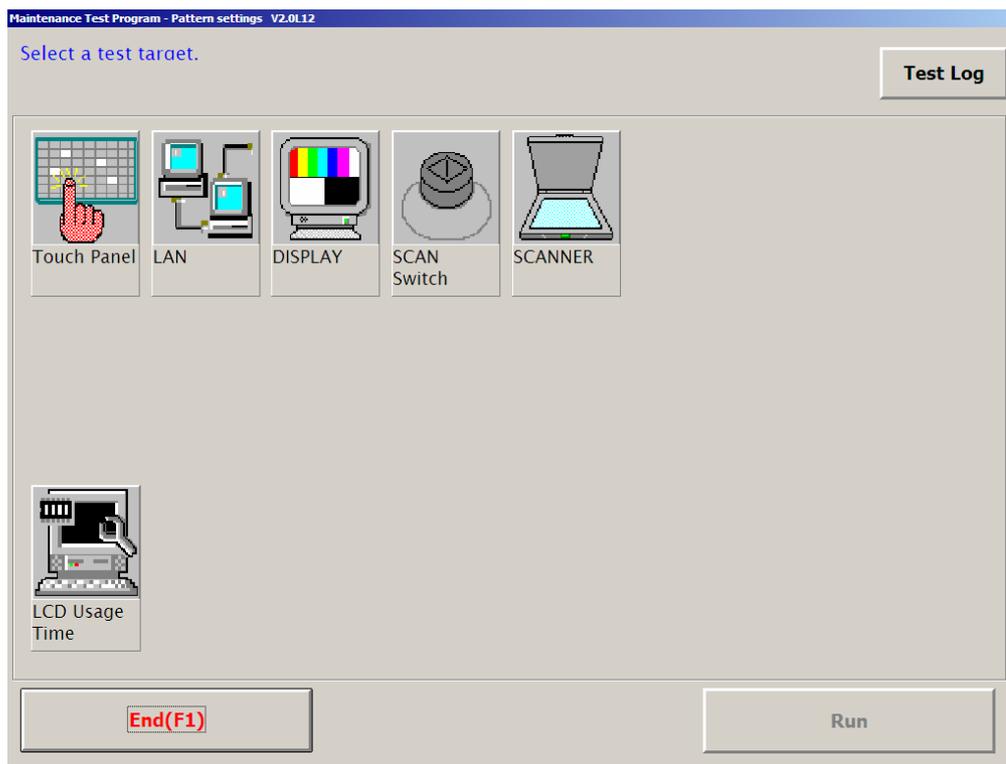
4) Press the desired test item button on the "TP Main" screen, and then press the [Run] button.

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6-3-3   Touch Panel

On the "TP Main" screen, press the [Touch Panel] button, and then the [Run] button.

Press an arbitrary cell and confirm that the color of the cell inverts. The cells that are inverted before touched are measures of pressed positions.

Notes:
1. Look in the panel from the center of LCD to minimize parallax error at pressing the cells.
2. Especially confirm the cells at the four corners, as the position error of the touch panel may appear there.
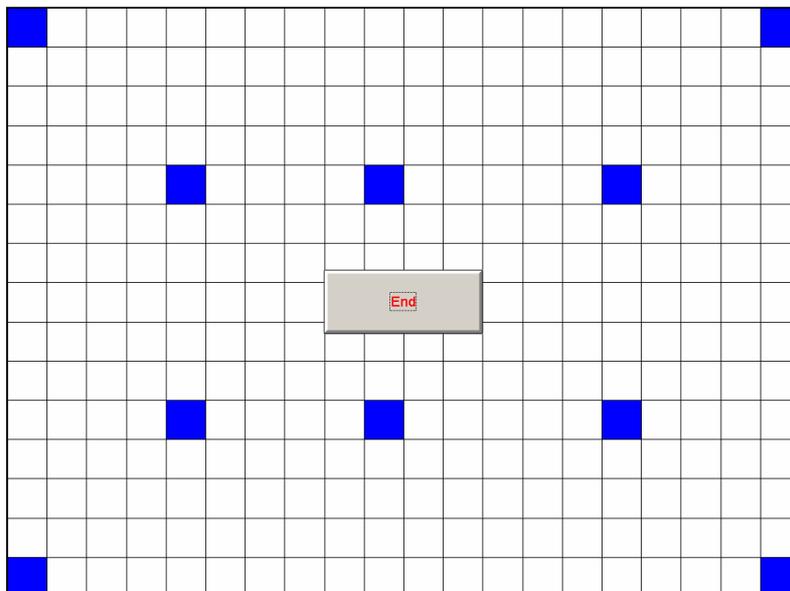
➔ XY-coordinate of the pressed position is displayed above the [End] button.

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6-3-4   LAN

On the "TP Main" screen, press the [LAN] button, and then the [Run] button.
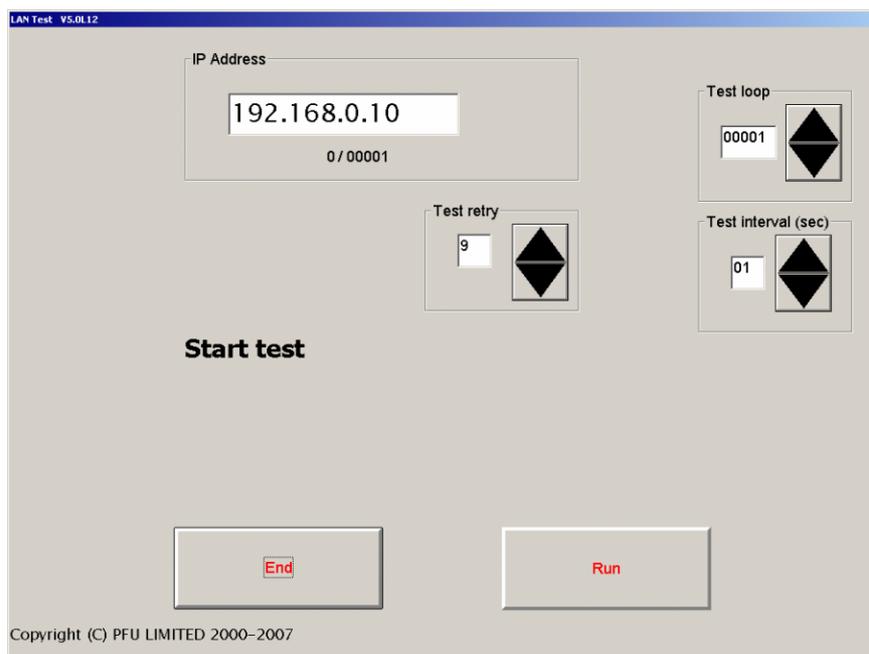
Enter the IP address of which LAN connection you want to check, press the [Run] button to ping.

Note 1: The IP address to be connected shall be in xxx.xxx.xxx.xxx format.
(Do NOT omit left side "0" in three digits, such as "0" and "10".)
Note 2: The number of internal "Retry" at communication error can be set between 0 and 9.

Error messages during ping are as follows. (Internal program name: PtLan.exe)

Error code	Message	Remarks
8000	Communication error!! Please check the connection, and power supply IP address=xxxx (NNNNNNNNNNNN)	
8100	ICMP function cannot be found. IP address = xxxx (NNNNNNNNNNNN)	
8201	Socket initialization error. IP address = xxxx (NNNNNNNNNNNN)	The error message from Winsock is shown in "NNNNNNNNNNNN" area in the message. xxxx: IP address
8202	Test target information could not be acquired. IP address = xxxx (NNNNNNNNNNNN)	
8900	Test error IP address = xxxx (NNNNNNNNNNNN)	

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6-3-5 DISPLAY

On the "TP Main" screen, press the [DISPLAY] button, and then the [Run] button.

First screen, (1) Cross hatching, appears. Every time the touch panel or the [Enter] key is pressed or mouse is clicked, the test pattern proceeds from (2) to (15) in sequence. After displaying all test patterns on the screen, this test program completes.
If the [F1] key is pressed during the test program, this test program is forcibly terminated.

Check the followings in each test pattern:
(1) ~ (2): Display position – Align the position when the display position is not in center.
(3) ~ (5): Screen flickering – If the displayed pattern is uneven, this LCD needs to be replaced.
(6) ~ (10): Dead pixels on the display – If many bright points exist on the solidly shaded area, this LCD need to be replaced.

(1)   Cross hatching
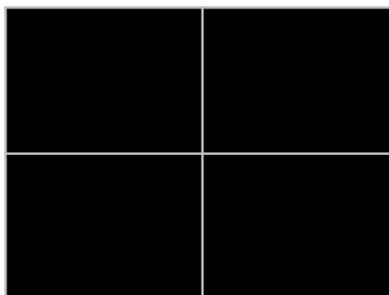
(2)   Cross hatching small
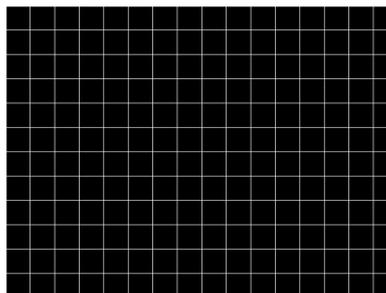
(3)   H character pattern

(4)   Kanji character pattern

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(5)   Focus pattern
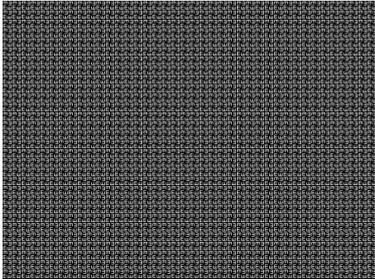
(6)   Full area red
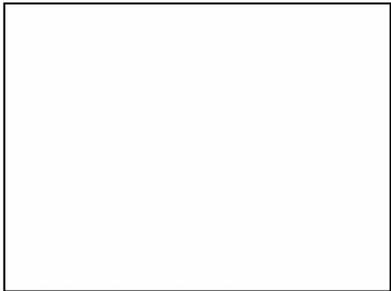

(7)   Full area green

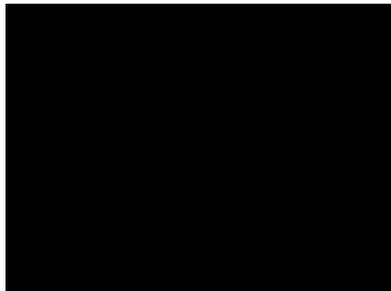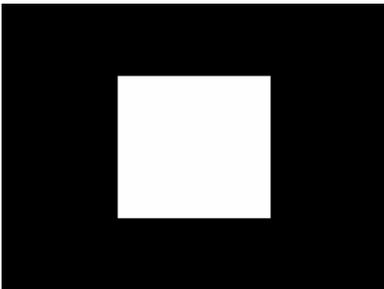
(8)   Full area blue

(9)   Full area white

(10)   Full area black

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(11)   White area in black
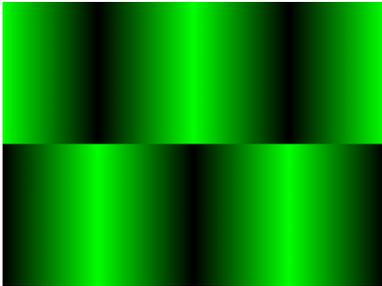

(12)   Upper black lower white
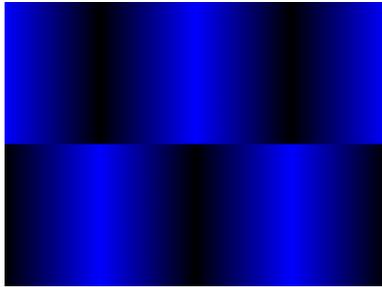

(13)   Gradation Red
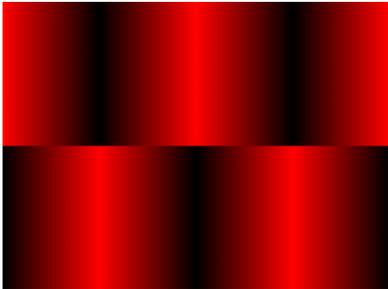
(14)   Gradation Green

(15)   Gradation Blue


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NewFEIMAS

6-3-6   SCAN Switch

On the "TP Main" screen, press the [SCAN Switch] button, and then the [Run] button.
➔ The following screen appears. Confirm that "OFF" is displayed.
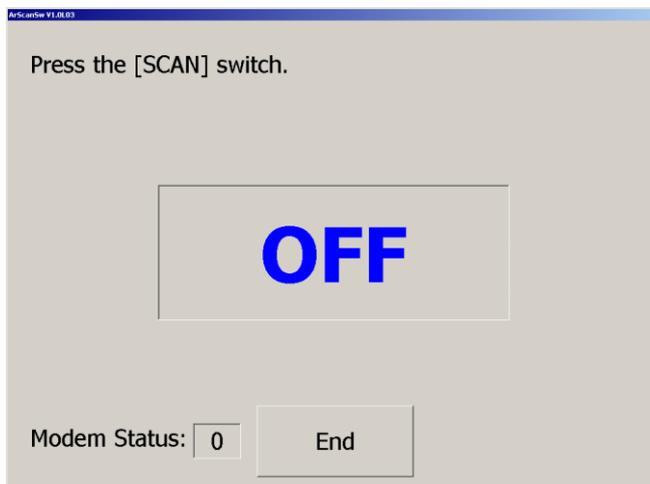
Press the [SCAN] button on the device for more than 0.5 second. The text on window turns from "OFF" to "ON", and the Modem control register value at the lower left of the screen changes.
If the [SCAN] button is pressed less than 0.5 second, OFF/ON display does not change; however, the Modem control register value changes to indicate status of the [SCAN] button.
Press [End] to terminate the test.
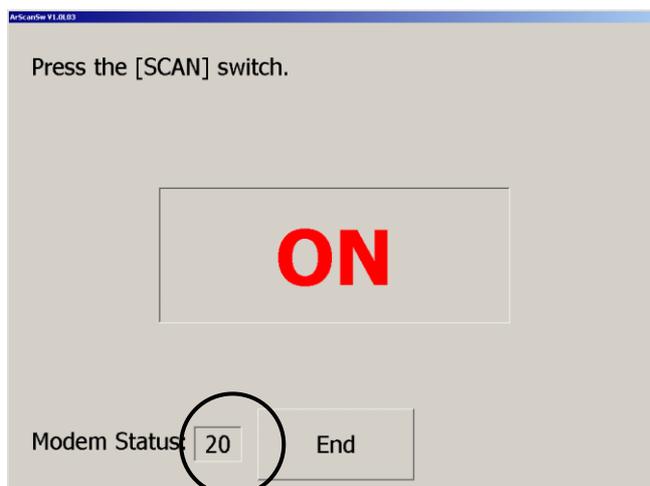
Modem control register value

If an error occurs during testing, following message may appear. (Internal program name: ArScanSw.exe)

Error code	Message	Description
8502	Port Open Error [COM%d]	Error of COM port open. "%d" is COM port number.
8503	Get CommModemStatus Error.	Switch status can not be obtained.

(example)

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6-3-7　SCANNER

On the "TP Main" screen, press the [SCANNER] button, and then the [Run] button.
fi-6010N has new items "Cleaning", "Image Display" and "Paper Feeding." 09

[fi-6000NS]　　　　　　　　　　　　　　　　　　[fi-6010N]
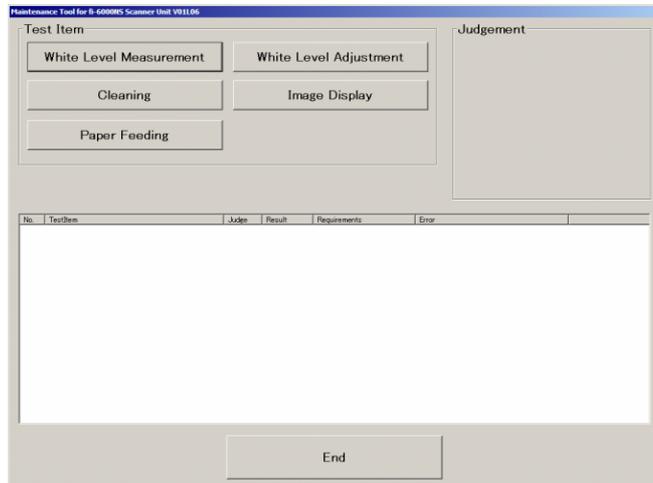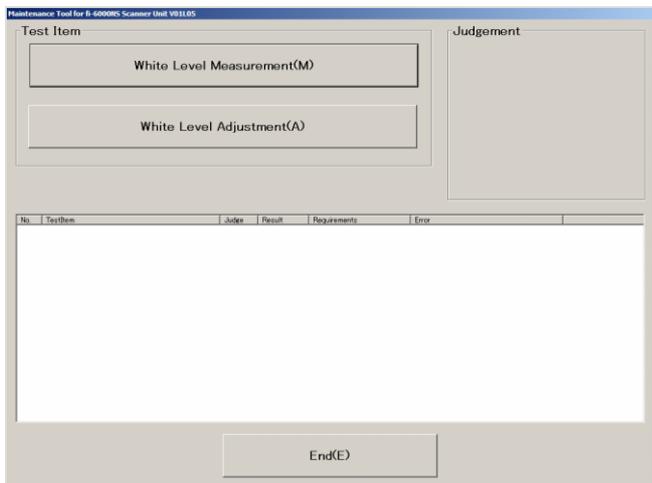
Functions of each button are as follows:

Button name	Function
White Level Measurement (M)	Scans the test chart, and then checks the connection between the PC section and the scanner section, and scanner function. Also checks that scanning is available and the test chart is correctly scanned.
White Level Adjustment (A)	Adjusts the value if the result of White level measurement is "NG" because the measured value is not within the criteria. After adjustment, the same process as "White level measurement" is executed.
Cleaning (fi-6010N only) 09	Rotates the rollers for five seconds with the Top cover open to clean the rollers.
Image Display (fi-6010N only) 09	Scans the A4-sized paper in duplex color, and display the scanned images in the order of front -> Backside.
Paper Feeding (fi-6010N only) 09	Only fi-6010N confirms paper feeding. After this button is pressed, the message to set documents (1 to 50 sheets) appears.

<Measure/Adjust the White Level>
(1) Press the [White Level Measurement (M)] button.
➔ The screen requesting to set a test chart (PA03277-Y123) on the ADF appears.

(2) Set the test chart on the ADF and press the [Yes] button. (If the [No] button is pressed, this test program terminates.)
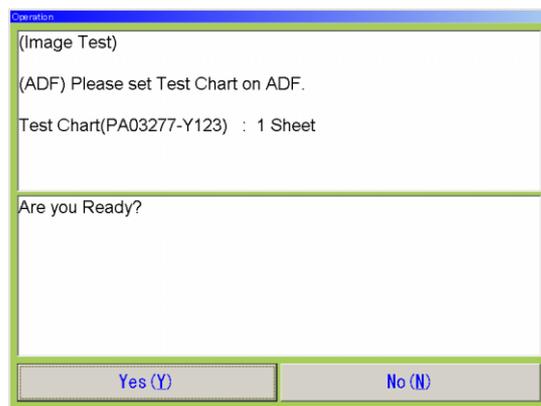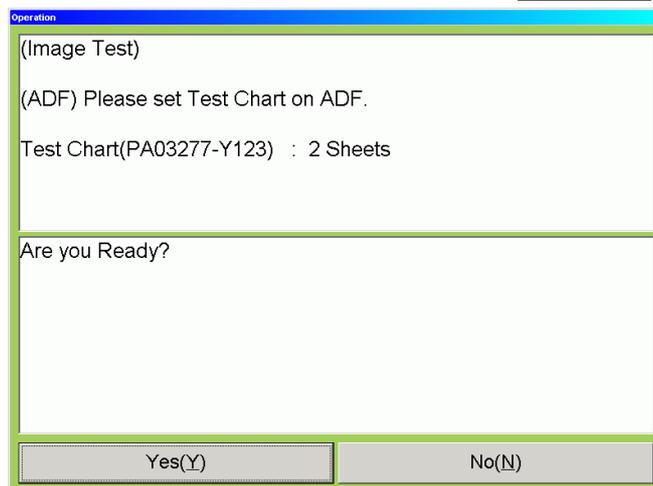
➔ The test chart is scanned and white level is measured. If white level is within the criteria, "OK" is shown in the "Judgment" frame at upper right corner of the screen.

If the result is "NG," perform White level adjustment by referring to step (3) ~ (4).

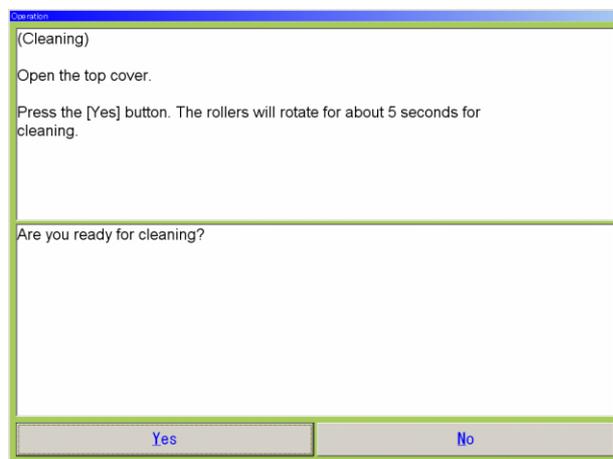| 09 | Oct. 27, 08 | K.Okada | T.Anzai | I.Fujioka | Refer to Revision Record on page 2. | TITLE | fi-6000NS, fi-6010N Network Scanner **Maintenance Manual** |
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(3) Press the [White Level Adjustment (A)] button.
➔ The screen requesting to set two test charts (PA03277-Y123) on the ADF appears.

(4) Set the test charts on the ADF and press the [Yes] button. (If the [No] button is pressed, this test program terminates.)

```
Operation
(Image Test)

(ADF) Please set Test Chart on ADF.

Test Chart(PA03277-Y123)  :  2 Sheets


Are you Ready?



            Yes(Y)                    No(N)
```

➔ Test charts are scanned and white level is adjusted and measured. If White level is within the criteria, "OK" is shown in the "Judgment" frame at upper right corner of the screen.
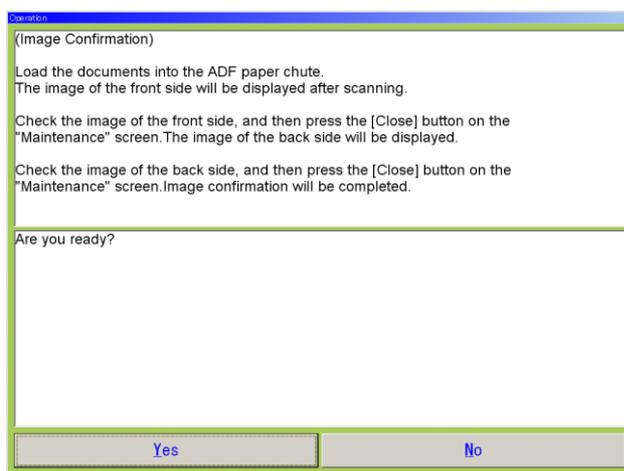
<Cleaning (fi-6010N only)> 09

(1) Press the [Cleaning] button.
➔ The screen requesting to open the Top cover appears.

(2) Open the Top cover, apply a cleaning cloth to the rollers as preparation for cleaning the roller, and press the [Yes] button.
➔ The rollers rotate for five seconds. After rotation, "OK" is shown in the "Judgment frame at upper right corner of the screen.

```
Operation
(Cleaning)

Open the top cover.

Press the [Yes] button. The rollers will rotate for about 5 seconds for
cleaning.



Are you ready for cleaning?




            Yes                       No
```

<Image Display (fi-6010N only)> 09

(1) Press the [Image Display] button.
➔ The screen requesting to set a sheet of document on the ADF appears.

(2) Set a document on the ADF and press the [Yes] button. (If the [No] button is pressed, this test program terminates.)
➔ The document is fed and the scanned image (front side) is displayed.

(3) Check the front side image, then press the [x] button on the right side of the screen or the [ESC] key on the keyboard to terminate the image display.
➔ The backside image is displayed.

```
Operation
(Image Confirmation)

Load the documents into the ADF paper chute.
The image of the front side will be displayed after scanning.

Check the image of the front side, and then press the [Close] button on the
"Maintenance" screen.The image of the back side will be displayed.

Check the image of the back side, and then press the [Close] button on the
"Maintenance" screen.Image confirmation will be completed.

Are you ready?




            Yes                       No
```

(4) Check the backside image, then press the [x] button on the right side of the screen or the [ESC] key on the keyboard to terminate the image display.

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<Paper Feeding (fi-6010N only)> 09

(5) Press the [Paper Feeding] button.
→ The screen requesting to set documents (1 to 50 sheets) on the ADF appears.

(6) Set the documents on the ADF and press the [Yes] button. (If the [No] button is pressed, this test program terminates.)
→ The documents are fed, but the scanned image is not displayed and the screen returns to the item selection screen.

(7) Press the [End (E)] button to return to the "TP Main" screen.
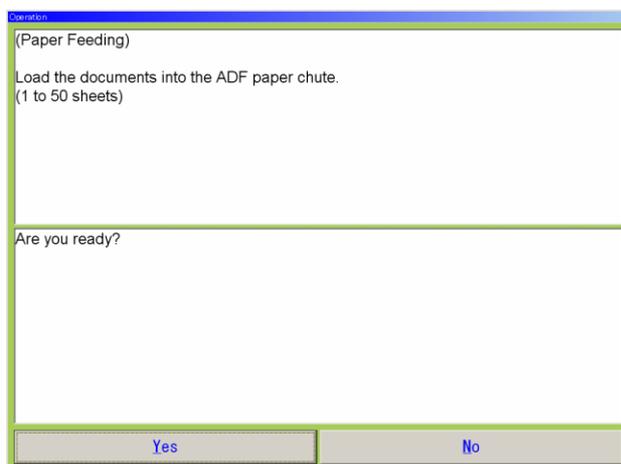
The messages are displayed separated to upper and lower boxes on the screen during this test program.

Message (Upper/ Lower)	Meaning
(Image Test) (ADF) Please set Test Chart on ADF. Test Chart (PA03277-Y123) : 1Sheet	Displayed during white level measurement. Load a sheet of the test chart (PA03277-Y123). Press the [Yes] button to start the test program. Press the [No] button to terminate the test program.
Are you Ready?	
(Image Test) (ADF) Please set Test Chart on ADF. Test Chart (PA03277-Y123) : 2 Sheets	Displayed during white level adjustment. Load two sheets of the test charts (PA03277-Y123). Press the [Yes] button to start the test program. Press the [No] button to terminate the test program.
Are you Ready?	
(Cleaning) Open the top cover. Press the [Yes] button. The rollers will rotate for about 5 seconds for cleaning.	Open the LCD cover and prepare for cleaning. Press the [Yes] button to rotate the rollers for five seconds for cleaning. Press the [No] button to terminate the test program.
Are you ready for cleaning?	
(Image Confirmation) Load the documents into the ADF paper chute. The image of the front side will be displayed after scanning. Check the image of the front side, and then press the [Close] button on the "Maintenance" screen. The image of the back side will be displayed. Check the image of the back side, and then press the [Close] button on the "Maintenance" screen. Image confirmation will be completed.	Load documents on the ADF. Press the [Yes] button to start the test program. Press the [No] button to terminate the test program.
Are you ready?	
(Paper Feeding) Load the documents into the ADF paper chute. (1 to 50 sheets)	Load 1 ~ 50 sheets of documents on the ADF. Press the [[Yes] button to start the test program. Press the [No] button to terminate the test program.
Are you ready?	

NewFEIMAS

The error messages that appear during this test program are as shown below. (Internal program name: AMT.exe)

Message (Upper / Lower)	Meaning
Scanner Not Found. Test is Terminated. Error Code = 0x31002001	PC section and Scanner section can not communicate. Confirm the cable connection between PC section and Scanner section.
Paper Empty. Error Code = 0x33838003 Do you Continue a test to set Test Chart?	Test Chart (PA03277-Y123) is not set on ADF before measuring White level. Load the Test Chart on ADF.
Paper Empty. Error Code = 0x33838003 Please Retry a test to set a Test Chart.	Test Chart (PA03277-Y123) is not set on ADF before adjusting White level. Load the Test Charts on ADF.
Paper Jam. Error Code = 0x33838001 Do you Continue a test to set Test Chart?	Paper jam occurs while scanning Test Chart. Clear the paper jam and load Test Chart on ADF again.
Double Feed. Error Code = 0x33838007 Do you Continue a test to set Test Chart?	Multifeed occurs while scanning Test chart. Clear the multifeed and load Test Chart on ADF again.
(Error message) Error Code = 0xXXXXXXXX Do you Continue a test to set Test Chart?	Hardware error message reported by Scanner section is displayed. Disassemble the Scanner section from the device, and troubleshoot it (See Section 5-6). (Error message): Describes the error. 0 XXXXXXXX : 8 digits error code
Test is Over because of Error. Test Item Name Device Name Check Please Retry a test to set a Test Chart.	The scanner installed in this device is not correct (firmware is different). Replace with the correct scanner, in which the correct firmware is installed
Test is Over because of Error. Test Item Name ADF_F White Level Check	White level of R, G or B output in front side scanning does not meet the criteria of White level. Adjust White level.
Test is Over because of Error. Test Item Name ADF_B White Level Check	White level of R, G or B output in backside scanning does not meet the criteria of White level. Adjust White level.
AMT.exe has already started. *1	The test program has already been running.

*1 This message is shown in the format below.

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6-3-8   LCD Usage Time

LCD usage time is retained in the HDD UNIT.

On the "TP Main" screen, press the [LCD Usage Time] button, and then the [Run] button.
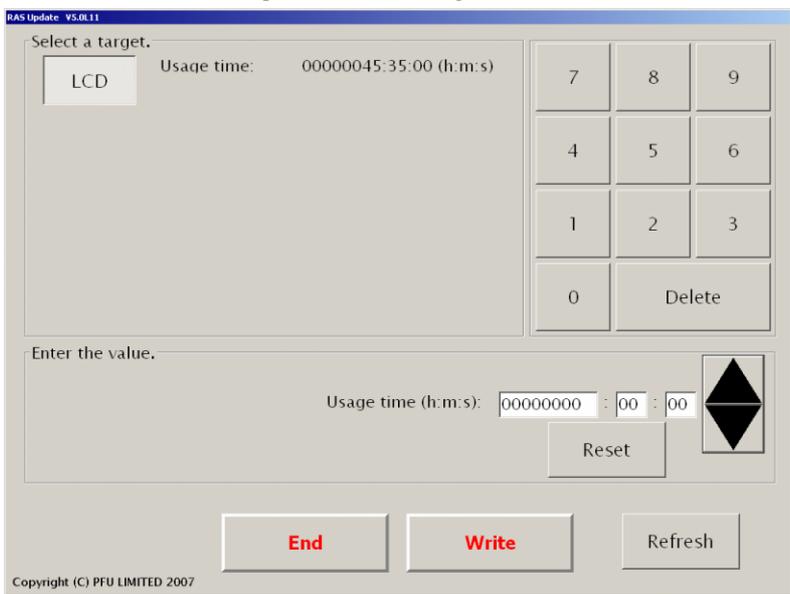

1. After LCD UNIT replacement

Press the [Reset] button, and then the [White] button.

2. After HDD UNIT replacement

(1) Before replacing the HDD UNIT, take a note of the current LCD usage time.

(2) After replacing HDD unit, enter the value by pressing the numeric keys or increment/decrement the value by pressing the ／ buttons, and then press the [Write] button.

➔ The following screen appears. Press the [OK] button.
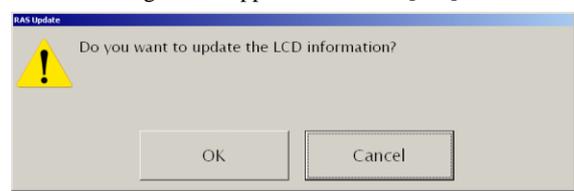
The message is as follows:

Message
Do you want to update the LCD information?

Error messages are as follows:

Message
RAS log read error
An invalid value was entered. Usage time: xxxxxxxx:xx:xx (between 00000000:00:00 and 99999999:59:59 can be specified.)

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6-3-9 Calibrating the Touch Panel

Calibration data is stored in HDD Unit. Conduct this calibration when LCD unit or HDD unit is replaced.

1) When the power is off or the scanner is in the Stand-by mode, press the Startup button.
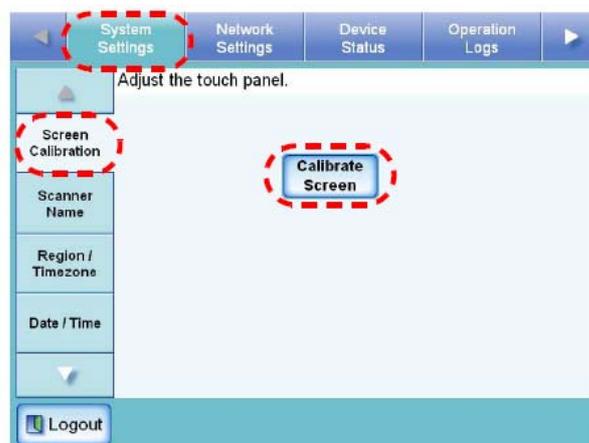   → The "Login" screen appears.
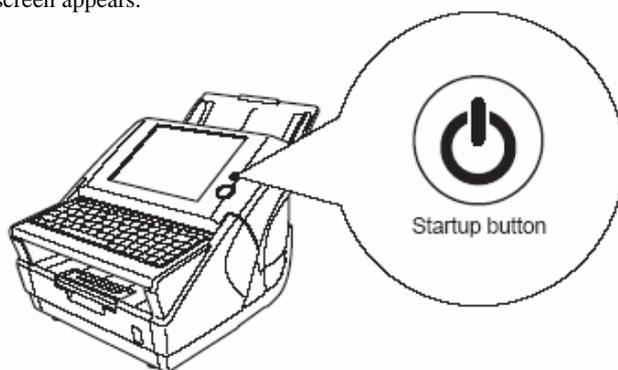
2) Log in with Maintenance mode. The user name and the password are as follows:

Model name	Login mode	User name	Password
fi-6000NS	Maintenance Mode	fi-maintenance	fi-scanner6-maintenance
fi-6010N			

- Enter the user name and the password, and then press the [Login] button.

3) On the "Menu" screen,
   1. Select the [System Settings] tab on the top menu.
   2. Select the [Screen Calibration] tab on the left side menu.
      → The "Screen Calibration" screen appears.
   3. Press the [Calibrate Screen] button.

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➔ A blank calibration screen appears, with a red "+" (adjustment mark) in the top-left corner.

4) Touch the "+" mark with your fingertip.

After being touched, the "+" will move to
the next calibration position. Each time
it stops, touch it again.

+

Please touch the point in the screen.

[Home] Test Screen [Arrow Keys] Move red '+' mark
[Esc] Cancel [Enter] Next Screen
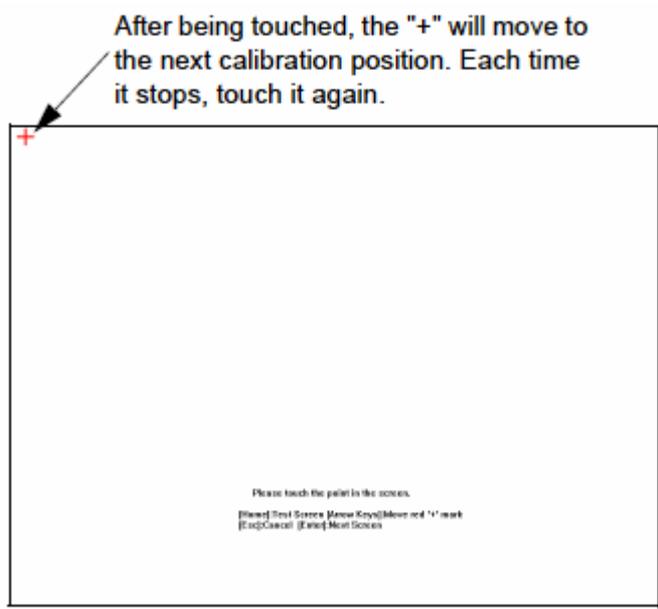
Note: The keyboard may also be used on the calibration screen:
- Press the [Home] key to jump straight to the post-calibration test screen.
- Use the arrow keys to move the "+" to a different calibration point. This allows a bad touch to be redone.
- Press the [Esc] key to stop the calibration process and return to the "Screen Calibration" screen.
- Press the [Enter] key to close the error dialog. (Not normally needed.)

Repeat step (4) until the test screen appears, with the following "Calibration" dialog box:

Calibration

Calib screen   Cursor on/off   CLR screen   Update

5) Trace a line on the screen with your fingertip.
➔ A corresponding line will appear on-screen. If the line does not appear correctly, press the [Calib screen] button to return to Step (4). If the screen becomes cluttered, press the [CLR screen] button to remove all the lines.

Note: Press the [Cursor on/off] button to toggle the mouse cursor between its "visible" and "hidden" states.

6) When you are satisfied with the touch screen response, press the [Update] button.
➔ This saves the current calibration data, completing the calibration process, and returns you to the "Screen Calibration" screen.

Note: If the calibration is not performed carefully, or the [Enter] key is pressed before all the calibration points have been touched, the following error message may appear:
`Parameter Error. Please input, again.`
Press the [Enter] key to dismiss the error dialog, and perform the calibration from step (4) again, being careful to touch each calibration point accurately.

6-4 Scan Test

After scanner cleaning or replacement of consumable parts, perform a scan test.

1) When the power is off or the scanner is in the Stand-by mode, press the Startup button.
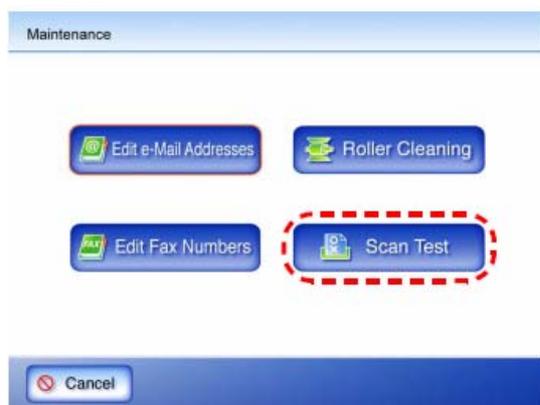→ The "Login" screen appears.
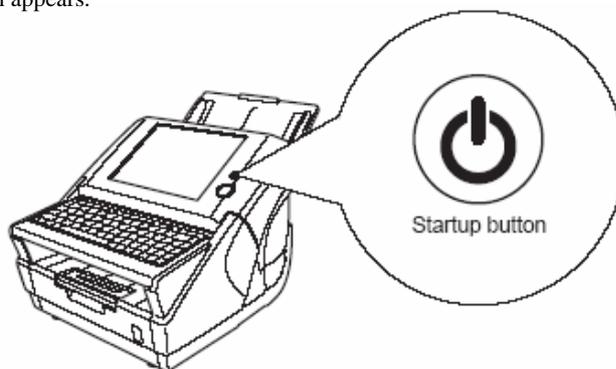
2) Log in User mode. Enter the user name and the password, and then press the [Login] button.
User Name (default): guest
Password (default): guest

3) On the "Main Menu" screen, press the [Maintenance] button.
→ The "Maintenance" screen appears.

4) Press the [Scan Test] button.

→ The scan settings information for the scan test is displayed.

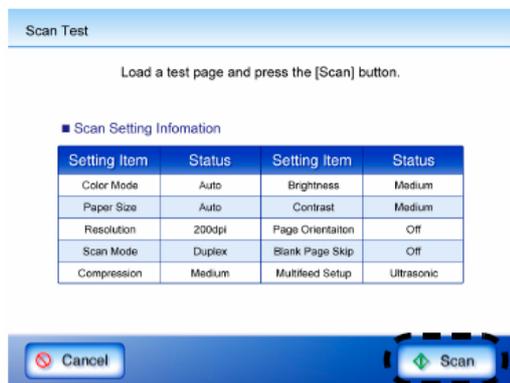| 09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	**fi-6000NS, fi-6010N Network Scanner**		
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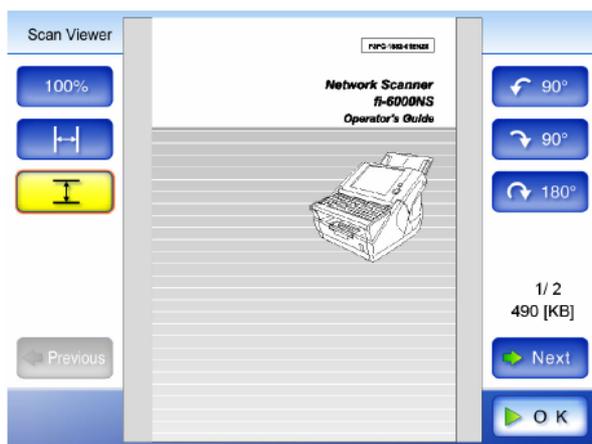5) Load the document for the scan test.

6) Press the [Scan] button.
➔ The scan test starts.
When the scan test has completed, the "Scan Viewer" screen appears.
If the scanner fails to scan correctly, an error message is displayed (Section 4-3).

7) Check the scanned data.

8) Press the [OK] button.
➔ The "Maintenance" screen is shown again.

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6-5   Resetting Admin Password

The default password for Administrator mode is "password." You can change the password.
If you forget the changed password, you will never be able to log on with the Administrator mode. In that case, restore the default password in the following procedure.

1) Log in with Maintenance mode. The user name and the password are as follows:

Model name	Login mode	User name	Password
fi-6000NS	Maintenance Mode	fi-maintenance	fi-scanner6-maintenance
fi-6010N			

2) Select the [System Settings] and [Rest Admin Password] tabs, and press the [Restore] button.

3) When the message asking if you want to restore the default Administrator password appears, press the [Yes] button.
   ➔ The message indicating that the password is being restored appears.
     When the message disappeared and the original screen appears, the restoration is complete.

NewFEIMAS (vertical text, left margin)

6-6 Configurable Item List by Logon user

Top Menu Tab	Left Side Menu Tab	Used to…	Administrator	Maintenance
			Admin	fi-6000NS or scanner
System Diagnosis	Diagnosis Suite	Diagnose the touch panel		A
		Diagnose the LAN functions		A
		Diagnose the display		A
		Diagnose the SCAN switch		A
		Measure / adjust the Scanner (White level measurement / White level adjustment / Paper feeding)		A
		Update the RAS log information (Configure and refer to the LCD usage time)		A
System Settings	Screen Calibration	Calibrate the touch panel	A	A
	Scanner Name	Set the scanner name	A	
	Region / Timezone	Set the region / timezone	A	
	Date / Time	Set the date / time and its format	A	A
	Standby Mode / Automatic logout	Set the time to logout	A	
		Set the time to standby mode	A	
	Admin Password	Change the admin password (Restore default password in Maintenance mode)	A	A
	Multifeed Settings	Set the multfeed detection method	A	A
	Scanner Adjustment	Set the offset and magnification settjings	A	A
Network Settings	IP address (included in "System settings" in Maintenance mode)	Set the DHCP / IP address / Subnet mask / Default gateway	A	A
	DNS Server	Set the prior / alternate DNS	A	
	WINS Server	Set the prior / alternate WINS	A	
	NTP Server	Set the NTP server name or IP address	A	
	LDAP Server	Set the LDAP server and related items	A	
	SMTP Server	Set the SMTP server name and IP address	A	
	FAX Server	Set the FAXS server mail address	A	
	Network Printer	Set the network printer	A	
	Network Folder	Set the network folder	A	
	Alert Notification	Set the destination for alert notifications	A	
	Ping	Check the network connection with a Ping test (server name / IP address)	A	
	Network Status	Check the network operating status [View] MAC address, IP address, Subnet mask, default gateway, DNS server, WINS server [Setting] Link Speed / Duplex Mode	A	
Device Status	System Status	View the system status [View] System version, scanner version, Date of registration Cumulative on time	A	A
	Usage Status	View the status of consumable parts / Clear counter	A	A
Operation Logs	User Log	View / delete the user logs	A	A
	System Log	View / delete the system logs	A	A
Maintenance	Maintenance information	Set the maintenance information output level	A	A

A: Available

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# Chapter 7   Basic Operation and Daily Care

⚠ **CAUTION**

The glass surface of the ADF glass becomes hot during operation of the scanner.

Before you start to clean inner parts of the scanner, turn off its power and unplug the AC Adapter from the outlet.   Wait for at least 15 minutes.

Do not turn off the scanner when you clean the Feed rollers.

7-1   Using the Scanner Buttons

7-1-1   Startup Button

When the scanner is off or in standby mode, pressing the startup button will start the scanner and display the "Login" screen.
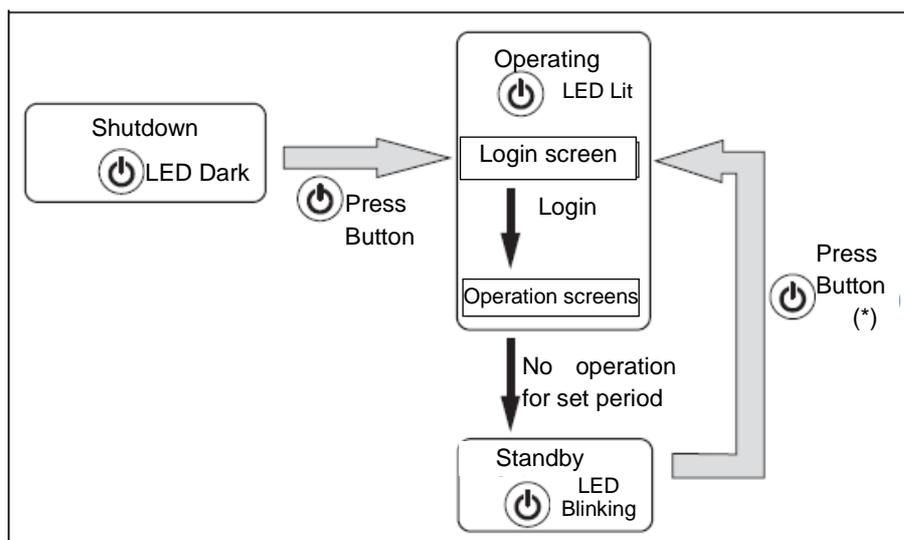
Any of the following operations will open the "Login" screen:
- Pressing the Startup button
- Loading the document in the ADF paper chute
- Closing the top cover
- Pressing a keyboard key

The idle time before standby mode entered can be changed.

Note: When the scanner is starting up or in standby mode, be careful to never hold the startup button down for four seconds, as this will cause the scanner to shutdown. If this happens, saved scanned data may become unusable.

If the startup button is accidentally held down too long, causing the scanner to shutdown, temporally detach the AC adaptor to ensure that the power is completely off.

After turning the power off, wait for at least ten seconds before turning the power back on again.

To shutdown the scanner correctly, press the [Shutdown] button on the "Login" screen.

7-1-2　Scan Button

When the [Scan] button on the touch panel is pressed, it will start the scan.

For certain scan settings, the [Scan] button may also have the following names:

- [Scan&Send] button
- [Scan&Save] button

7-2　Using the LCD Touch Panel

When using the LCD touch panel, buttons only need to be lightly pressed to select them.

Notes:	Do not use a pen or other hard object on the LCD touch panel. The LCD touch panel may be damaged. If the screen is dirty, this may cause the LCD touch panel to malfunction. Clean the screen if it is visibly dirty.

7-3　Using the Keyboard

Selecting buttons or entering text can also be done on the keyboard.

The keyboard can be used in the following ways:

7-3-1　Using the Keyboard: Administrator

Button selection and character entry can be performed with the keyboard only as well.

Key	Function
Tab	Switch focus to the next field or button.
Space	Select the button in focus. However, this cannot be used for the [Download], [Get CSV], and [Backup] buttons.
Enter	Set the contents of the current screen. (Used instead of the [OK] button or [Login] button.)
↑↓	Change the value of the numerical input for the field in focus.
Page Up / Page Down	Scroll up or down the contents on the screen. (Used instead of the scroll buttons.)

Notes:

The keyboard cannot be used to select a top or left side menu button.

Select buttons in the top menu by pressing the touch panel or by using the mouse.

### 7-3-2　Using the Keyboard: Regular User

Key	Function
Tab	Switch focus to the next field or button.
Space	Select the button in focus.
Enter	Set the contents of the current screen. (Used instead of the [OK] button or [Login] button.) (On Search screens, may be used instead of the [Find] button.)
Esc	Return to the previous screen. (On Main Menu, may be used instead of the [Logout] button.)
Alt + F4	Shutdown the scanner. (Used instead of the [Shutdown] button on the "Login" screen.)
↑↓	Scroll up or down between items.
Page Up / Page Down	Scroll up or down the page on the screen.

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7-4 Basic Operation of the Scanner

7-4-1 Loading Documents

1) Check the number of document sheets.

2) Fan the documents.
   1. Lightly grip the ends of the document stack in both hands, and flex it back and forth two or three times.
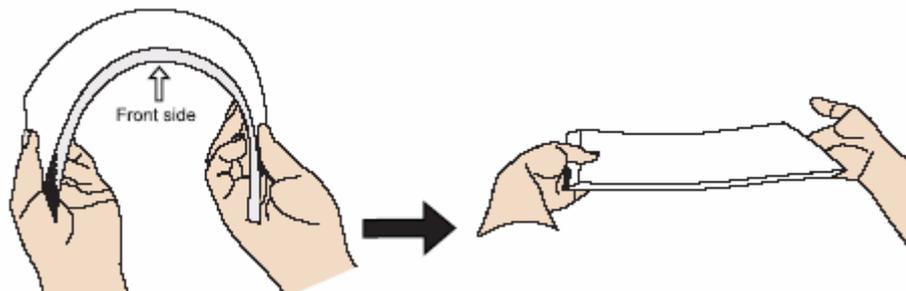
   2. Rotate the document 90 degrees, and fan again.

   3. Align the edges of the document sheets.

3) Load the documents into the ADF paper chute.
   1. Extend the ADF paper chute and adjust the side guides to hold the documents.
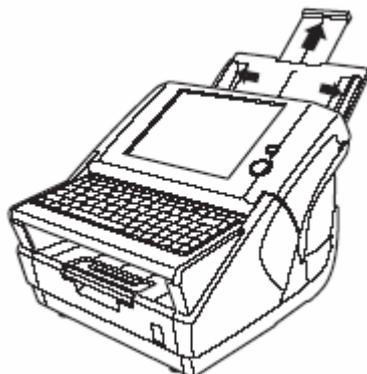
   2. Load the documents face down. If only one side is to be scanned, it should face down in the ADF paper chute.
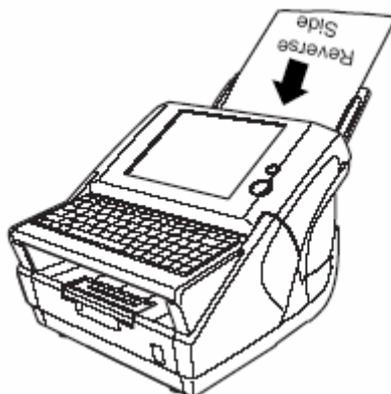
   3. Adjust the side guides to the width of the documents.
   Move the side guides so that they touch both sides of the documents.
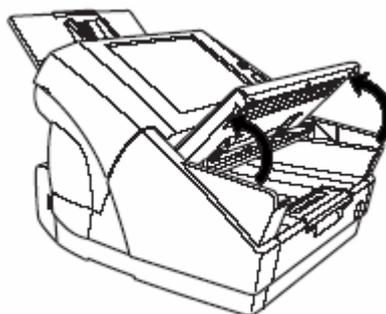   If there is any space between the side guides and the edges of documents, the scanned data may be skewed.

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Notes:
- The output tray holds the document sheets after they have been scanned. It can be pulled out and adjusted to the size of the document being scanned.
  1. Pull out before scanning.
  2. The extension flap of output tray may also be flipped up, as shown in the figure below.
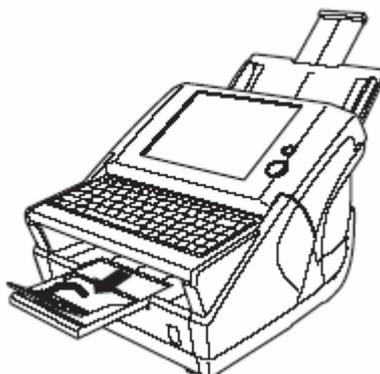
- Small documents may be retrieved by flipping up the keyboard after scanning has completed.

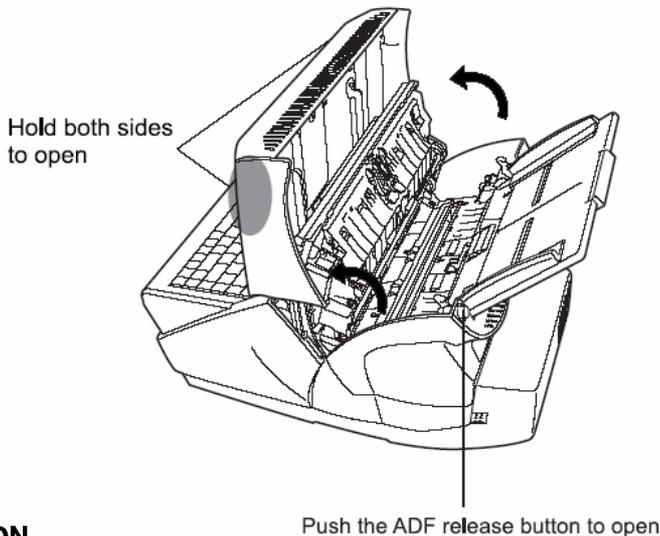| 09	Oct. 27, 08	K.Okada	T.Anzai	I.Fujioka	Refer to Revision Record on page 2.	TITLE	fi-6000NS, fi-6010N Network Scanner **Maintenance Manual**		
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7-5 Daily Care

7-5-1 Cleaning the ADF

The ADF should be cleaned after approximately every 1,000 scanned sheets. However, this criterion varies according to the type of documents scanned. For example, it may be necessary to clean the ADF more frequently when documents with insufficiently fused toner are scanned.

⚠ CAUTION

The glass scanner windows inside the ADF can become hot when the scanner is used.
Before cleaning the inside of the scanner, disconnect the AC adapter from the power outlet, and wait for at least 15 minutes to let the glass scanner windows cool down.
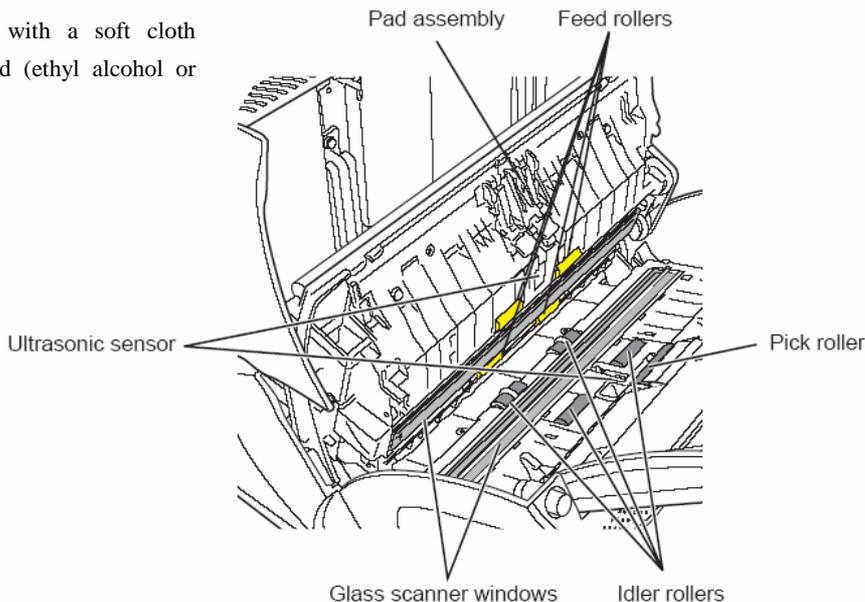
How to clean:

1. Push the ADF release button, then hold both sides of the top cover and lift it open.

Hold both sides to open

Push the ADF release button to open

⚠ CAUTION

Be careful that the top cover does not shut on your fingers.

2. Clean the following parts with a soft cloth moistened with cleaning fluid (ethyl alcohol or isopropyl alcohol).


Pad assembly   Feed rollers

Ultrasonic sensor

Pick roller

Glass scanner windows   Idler rollers

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Note: When cleaning inside the ADF, take care that the cloth does not get snagged by the document sensors and damage them.
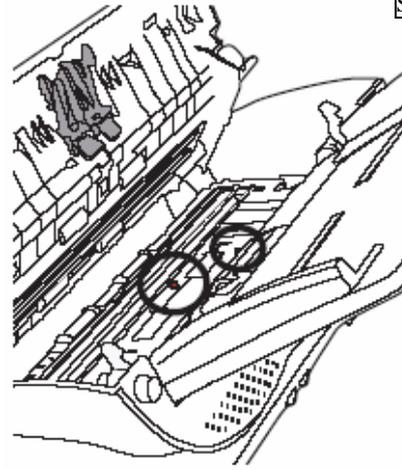

- Pad ASSY

Clean the rubber pads by gently wiping downwards in the direction of the arrows. Take care not to snag and bend the pick springs.

Pick springs

Rubber pads (clean here)
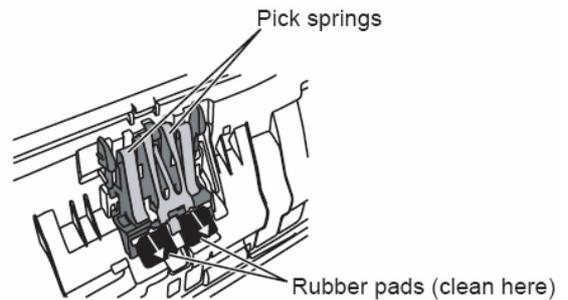
- Feed rollers

Use the following procedure when cleaning the feed rollers.

(1) On the "Main Menu" screen, press the [Maintenance] button.

➔ The "Maintenance" screen appears.

(2) Press the [Roller Cleaning] button.

Maintenance

Edit e-Mail Addresses   Roller Cleaning

Edit Fax Numbers   Scan Test

Cancel
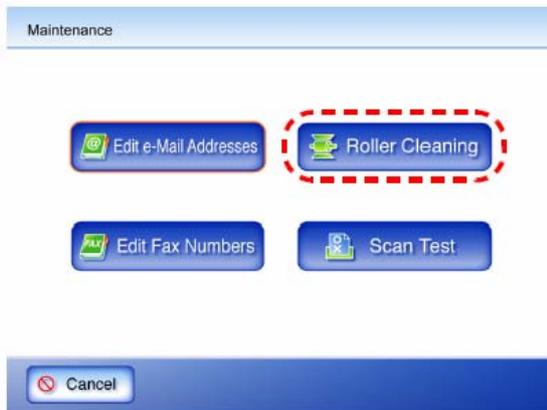
➔ The "Roller Cleaning" screen appears.

(3) Open the top cover.

(4) Lightly press a soft moistened with cleaning fluid against the surface of the feed rollers.

(5) Press the [c] key on the keyboard.

➔ All four feed rollers will advance one step each time the [c] key is pressed.

Lightly press a soft cloth moistened with cleaning fluid against the surface of the rotating rollers to clean them. Pressing the [c] key seven times will turn the roller one complete revolution. The feed rollers should be cleaned carefully and thoroughly, as dirty pick rollers can adversely affect the paper pickup performance.

Note: When cleaning the feed rollers, be careful not to touch the rollers with your fingers while they are rotating.

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- Pick roller

Gently rotate the pick roller as you wipe its surface clean, taking care not to damage the soft rubber. The pick roller should be cleaned carefully and thoroughly, as dirty pick rollers can adversely affect the paper pickup performance. When cleaning the pick roller, also be careful not to damage the black plastic glide strip.

Glide strip
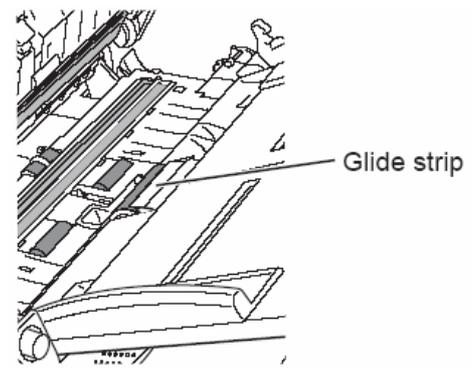
- Idler rollers

Gently rotate the idler rollers as you wipe them clean, taking care not to scratch or ding them, or tear the sponge wheels. The idler rollers should be cleaned carefully and thoroughly, as dirty idler rollers can adversely affect the paper pickup performance.
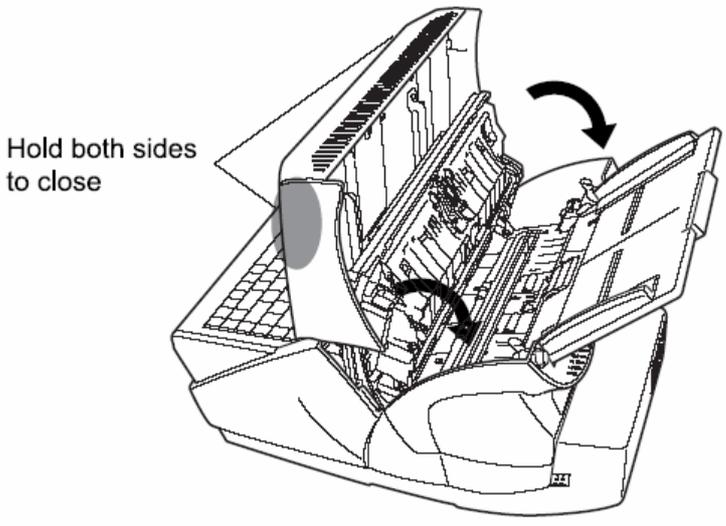
- Glass scanner windows

Clean lightly with a soft cloth moistened with cleaning fluid.

A vertical black line on the scanned data may indicate the glass scanner windows are dirty.

- Ultrasonic sensor

Clean lightly with a soft cloth moistened with cleaning fluid.

3. Holding both sides of the top cover, return it to its original position.

Note: Make sure that the top cover is completely closed. If not completely closed, document jams and feeding errors may occur.
When closing the top cover, do not slam it shut by pushing the touch panel as this may damage it.

Hold both sides to close

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7-5-2 Cleaning the LCD Touch Panel

To prevent the touch panel screen from becoming dirty, it should be regularly cleaned with a soft, dry cloth.
Take care when cleaning the touch panel. It can be easily damaged, and should never be scratched or banged with hard objects.

> Note: Always use a dry (not damp) cloth to clean the screen.
> If dust is allowed to collect and compact around the frame of the screen, it can cause the touch panel to malfunction.

7-5-3 Cleaning the Keyboard

To prevent the keyboard from becoming dirty, it should also be regularly cleaned with a soft, dry cloth.

> Note: Always use a dry (not damp) cloth to clean the keyboard.

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7-6   Replacing the Consumables

7-6-1   Consumables

The scanner has the following consumables which users need to replace at the following intervals when the screen on the right appears.   To check the number of scanned documents, go to Maintenance mode (Section 6-1-6) or the administration screen.

Table 7-6-1

No.	Part name	Specifications	Standard replacement cycle (*)	How to check the number of scanned documents	How to replace
1	Pad ASSY	PA03289-0111	50,000 sheets or one year	See Section 6-1-6., 6-3-8	See Section 7-6-3.
2	Pick roller	PA03289-0001	100,000 sheets or one year		See Section 7-6-4.

* The replacement cycles above are rough guidelines for the case of using A4/Letter woodfree or wood containing paper $64g/m^2$ (17lb). This cycle varies according to the type of the documents scanned, scanner usage, and cleaning frequency.

* When the [Consumable Alert] button becomes orange or red, replace the necessary part.

* Use only the PFU LIMITED parts specified. Do not use consumable parts made by other manufacturers.
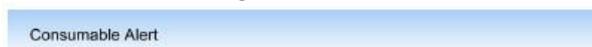
7-6-2   Confirming Replacement Time

1) Press the [Consumable Alert] button.
   ➔ The "Consumable Alert" screen appears.

2) Check which part needs to be replaced and press the [OK] button.
   Parts whose "Usage Counter" value is bigger than the "Replace at" value should be replaced.
   The value of the "Usage Counter" is in units of 500 sheets scanned.

* You can check the consumable status on the screen logged in as a scanner administrator, or on the maintenance screen as well. (Section 7-6-5, 6-3-8).

The "Current Status" fields show the current conditions of the pad assembly or pick roller depending on the total number of pages scanned.

Status color	The number of scanned sheets	Status
Green	Pad ASSY: 0 ~ 44,500 sheets Pick roller: 0 ~ 94,500 sheets	Activating normally
Orange	Pad ASSY: 45,000 ~ 49,500 sheets Pick roller: 95,000 ~ 99,500 sheets	Needs to be replaced very soon.
Red	Pad ASSY: 50,000 sheets ~ Pick roller: 100,000 sheets ~	Replace the consumable.

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7-6-3   Replacing Pad ASSY

Refer to Section 7-6-1 for the specification of the Pad ASSY.

1)   Remove any documents on the ADF paper chute (Chute Unit).

2)   Push the ADF release button, then hold both sides of the top cover and lift it open.

Hold both sides
to open

Push the ADF release button to open
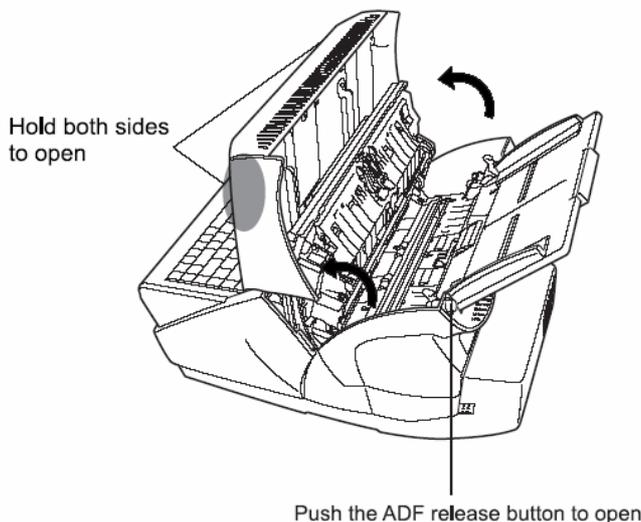
⚠ **CAUTION**

   Be careful that the top cover does not shut on your fingers.

3)   Squeeze the prongs on either side of the Pad ASSY together and pull it upwards and to the front, taking care not to snag the pick springs.

Squeeze prongs together and pull up

4)   Holding the new Pad ASSY by its sides, insert into the pad ASSY socket, taking care not to snag the pick springs.
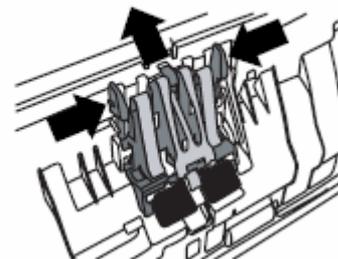
   Note: Make sure that the Pad ASSY is firmly and fully inserted. If it is not correctly attached, document jams and other feeding errors may occur.

5)   Close the top cover.
   You should hear a click when it is returned to its original position.

⚠ **CAUTION**

   Be careful that the top cover does not shut on your fingers.

6)   Reset the Pad ASSY usage counter. (Refer to Section 7-6-5.)

7)   Perform a scan test (Refer to Section 6-4.).

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7-6-4 Replacing Pick roller

Refer to Section 7-6-1 for the specification of the Pick roller.

1) Remove any documents from the ADF paper chute (Chute Unit) and remove the ADF paper chute (Chute Unit).
2) Push the ADF release button, then hold both sides of the top cover and lift it open.

⚠ **CAUTION**

Be careful that the top cover does not shut on your fingers.

3) Squeeze the tabs of the sheet guide release catch together with your fingers, and lift the sheet guide plate up and away (right figure).
4) Rotate the left side Pick roller bushing in the direction of the arrow.
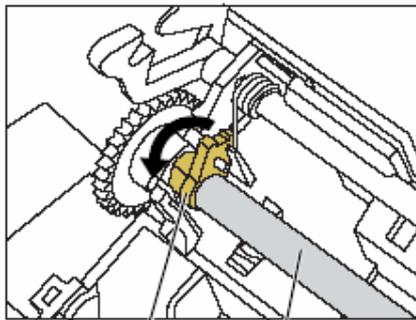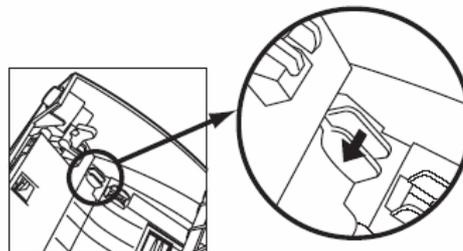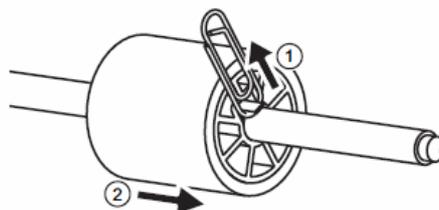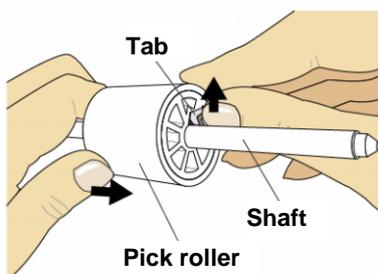

Pick roller bushing   Pick roller shaft

5) Gently lift and slide the pick roller shaft out of the left side of the ADF in the direction of the arrow. Be careful as it is easy to bind the shaft in the right side bushing.

Note: The pick roller bearing may be hard to rotate. Do not try to turn it with your fingernail. Use a paper clip to turn the roller bearing if you cannot rotate it with your fingertip.
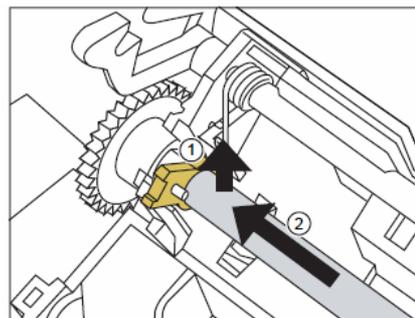

6) Lift up the lock tab and slide the pick roller off the shaft.

Tab
Shaft
Pick roller

Note: Take care if lifting the pick roller lock tab with your fingernail as it may get chipped or broken. If worried, try lifting the tab using a paper clip as shown in the following diagram.

7) Attach the new Pick roller.

Insert the shaft into the new pick roller, aligning the protruding pin on the shaft with the matching notch in the pick roller.

Pin on shaft   Pick roller notch
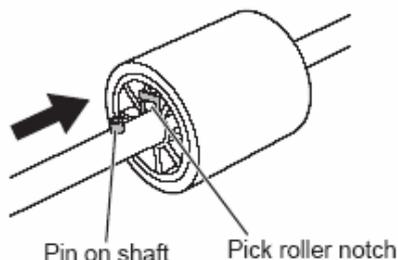
Note: Make sure that the pick roller shaft is fully inserted. If it is not correctly attached, document jams and other feeding errors may occur. You should hear a "click" when the pick roller shaft is inserted correctly. Make sure you hear this noise when inserting the shaft into the pick roller.

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8) Attach the Pick roller to the scanner in reverse procedure for removal.
9) Close the top cover.
  You should hear a click when it is returned to its original position.

⚠ CAUTION
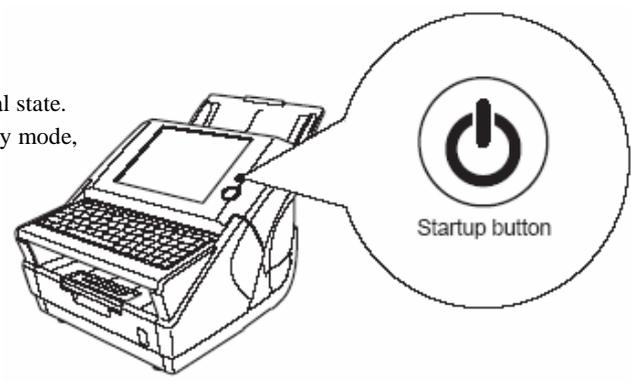
Be careful that the top cover does not shut on you fingers.

10) Attach the ADF paper chute (Chute Unit).
11) Reset the Pick roller usage counter. (Refer to Section 7-6-5.)
12) Perform a scan test. (Refer to Section 6-4.)
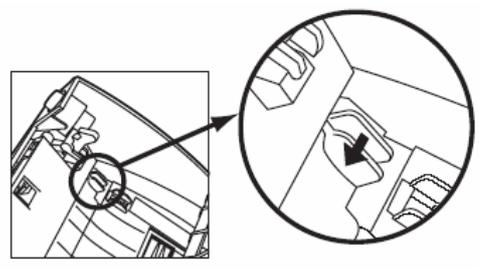
7-6-5   Resetting Consumable Counters

After replacing the consumables, reset the counter to the normal state.
  1) When the power is off or the scanner is in the Stand-by mode,
     press the Startup button.
     → The "Login" screen appears.

2) Log in with Administrator mode or Maintenance mode. The user name and the password are as follows:

Model name	Login mode	User name	Password
fi-6000NS/fi-6010N	Administrator Mode	Admin (Default)	Password (default)
	Maintenance Mode	fi-maintenance	fi-scanner6-maintenance

  - Enter the user name and the password, and then press the [Login] button.

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3) On the administrator's screen, press the [Device Status] button, and then the [Usage Status] button.
➔ The "Usage Status" screen appears.
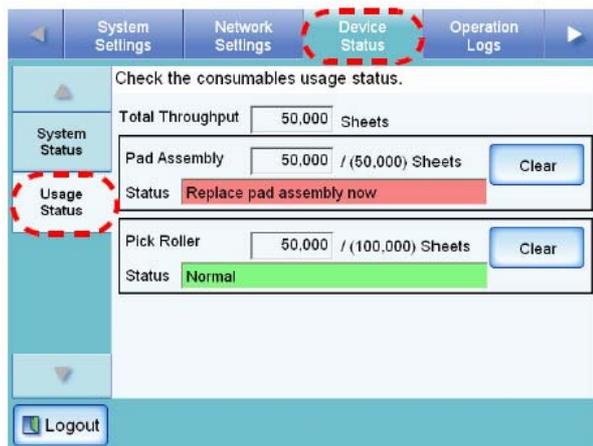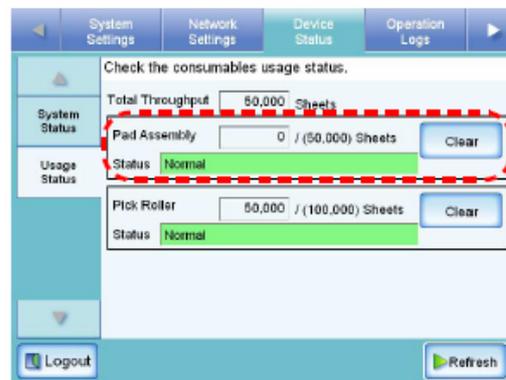

4) Press the [Clear] button for the part replaced.
➔The counter reset confirmation screen appears.

5) Press the [Yes] button.

➔ The counter value is reset to "0", and the "Status" field turns green again.

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Appendix 1 Browsing Setting Information and Logs

1. Giving the Scanner an IP Address

Ask the user when setting the IP address.

(1) Log in with Administrator mode or Maintenance mode. The user name and the password are as follows:

Model name	Login mode	User name	Password
fi-6000NS/fi-6010N	Administrator Mode	Admin (Default)	Password (default)
	Maintenance Mode	fi-maintenance	fi-scanner6-maintenance

- Enter the user ID and password, and then press the [Login] button.
→ "Menu" screen appears.

(2) On the "Menu" screen,
1. Select the [System Settings] tab on the top menu.
2. Select the [IP address] tab on the left side menu.
→ The "IP address" screen appears.

(3) Select whether or not a DHCP is required.

Set the scanner's IP address. This may be done automatically, by pressing the DHCP [On] button. By default, this is set as [On].

The IP address may also be set manually, by pressing the DHCP [Off] button and entering the following numerical addresses:
- IP address
- Subnet mask
- Default gateway

(4) Press the [OK] button.
→ The information entered is set.

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2. Setting Date/Time

Ask the user when setting the date/time.

(1) Log in with Administrator mode or Maintenance mode. The user name and the password are as follows:

Model name	Login mode	User name	Password
fi-6000NS/fi-6010N	Administrator Mode	Admin (Default)	Password (default)
	Maintenance Mode	fi-maintenance	fi-scanner6-maintenance

- Enter the user ID and password, and then press the [Login] button.

(2) On the "Menu" screen,
  1. Select the [System Settings] tab on the top menu.
  2. Select the [Date/Time] tab on the left side menu.
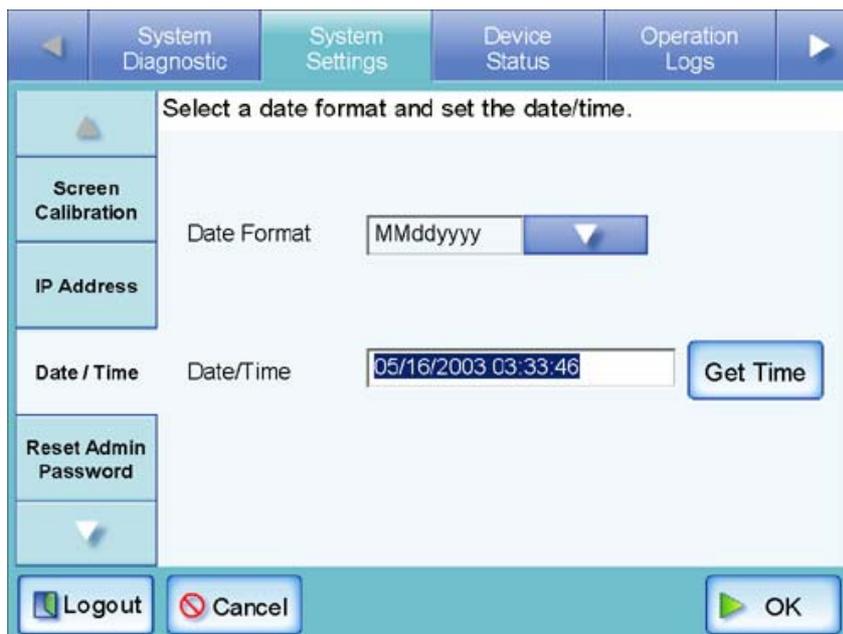
➔ The "Date/Time" screen appears, with a system date/time close to the current date/time shown.

(3) Press the Date Format [List] button.
  ➔ A date format drop down list appears.

(4) Select a date format.
   This date format is applied to the date/time when it is used to name scan data files and the date shown on screens.

(5) Enter the current date and time in the "Date/Time" input field.
   Note: Pressing the [Get Time] button refreshes the current value of the internal system date/time.

(6) Press the [OK] button.
   ➔ The date and time are set.
   Note: An adjustment that advances the system time by 20 minutes or more results in a session timeout and causes the scanner to logout.

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3. System status

Device information for maintenance is shown by this method.

(1) Log in with Administrator mode or Maintenance mode. The user name and the password are as follows:

Model name	Login mode	User name	Password
fi-6000NS/fi-6010N	Administrator Mode	Admin (Default)	Password (default)
	Maintenance Mode	fi-maintenance	fi-scanner6-maintenance

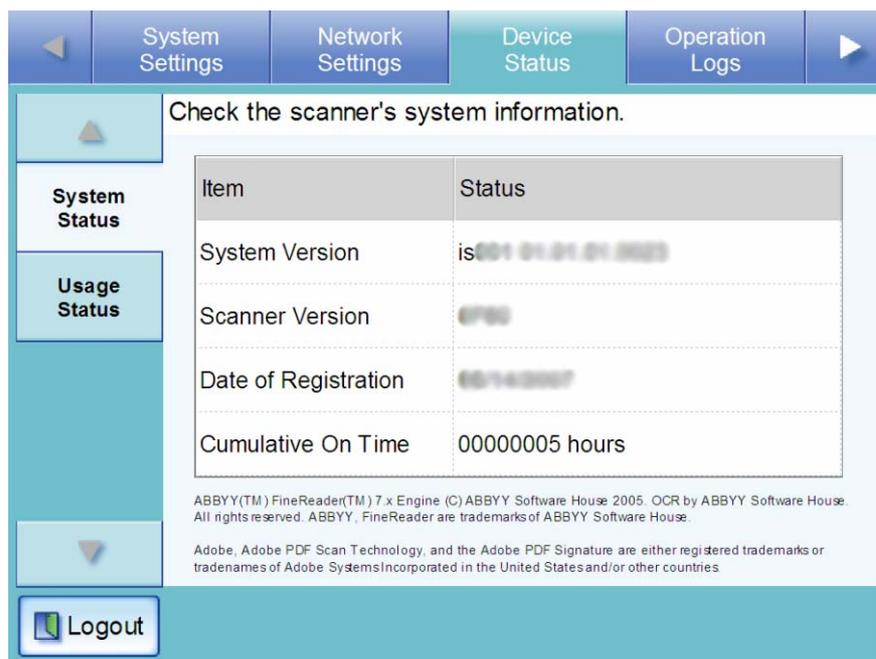- Enter the user ID and password, and then press the [Login] button.
➔ "Menu" screen appears.

(2) On the "Menu" screen,
1. Select the [Device Status] tab on the top menu.
2. Select the [System Status] tab on the left side menu.

The following system status information is available.

Information	Details
System Version	Current scanner system revision number
Scanner Version	Current scanner firmware revision number
Date of Registration	Date on which the scanner was first used
Cumulative On Time	Total elapsed usage time of the scanner

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4. Status of Consumable Parts

Information about the number of documents that have been scanned and the status of the scanner's consumable parts (Pad ASSY and Pick roller) can be viewed. When a user replaces the consumable, the user needs to clear this counter. (Refer to Section 7-6-5.)

(1) Log in with Administrator mode or Maintenance mode. The user name and the password are as follows:

Model name	Login mode	User name	Password
fi-6000NS/fi-6010N	Administrator Mode	Admin (Default)	Password (default)
	Maintenance Mode	fi-maintenance	fi-scanner6-maintenance

- Enter the user ID and password, and then press the [Login] button.
→ "Menu" screen appears.

(2) On the "Menu" screen,
 1. Select the [Device Status] tab on the top menu.
 2. Select the [Usage Status] tab on the left side menu.

→ The "Usage Status" screen appears.

Items	Description
Total Throughput	Total number of sheets scanned by the counter

Pad Assembly	Total number of sheets picked by the Pad ASSY is displayed. Life of the Pad ASSY is 50,000 sheets. Use this count as a reference of preventive maintenance.
	
	- Clear
	  After replacing the Pad ASSY, this counter is cleared by pressing the [Clear] button and then [Yes] button on the next screen.
	- Status
	  Status of the Pad is shown by the following text under the following condition.
	  "Normal" 0 to 44,500 sheets with green ground color
	  "Need to be replaced very soon" 45,000 to 49,500 sheets with orange ground color
	  "Replace pad assembly now" 50,000 sheets or over with red ground color

Pick Roller	Total number of sheets picked by the Pick roller is displayed. Life of the Pick roller is 100,000 sheets. Use this count as a reference of preventive maintenance.
	
	- Clear
	  After replacing the Pick roller, this counter is cleared by pressing the [Clear] button and then [Yes] button on the next screen.
	- Status
	  Status of the Pick roller is shown by the following text under the following condition.
	  "Normal" 0 to 94,500 sheets with green ground color
	  "Need to be replaced very soon" 95,000 to 99,500 sheets with orange ground color
	  "Replace pick roller now" 100,000 sheets or over with red ground color

Appendix 2   Browsing and Analyzing the Logs

1. Outline of Log Information

The device log information represents system logs/user logs that are used for general diagnosis, internal trace information, and TWAIN driver information.

There are two methods for viewing the system logs/user logs; collective download and touch panel operation on the device. To download the information collectively, you can configure the extraction level in advance and change the necessary extraction level (default level is 1).

For collective download, Admin Tool is required to be installed.

[Log Information Level List]

Extraction Level	Extracted Information	Remarks
Unconditional (Must extract	Configuration information	
	System logs	System logs and user logs can be viewed by operating on the touch panel of the device.
	User logs	
	Windows event log	
	Watson log	
	Command execution result	Netstat, tasklist, net start
Level 1	Internal trace information	Minimum trace
Level 2	Internal trace information	Normal trace
	TWAIN driver trace information	Minimum trace
Level 3	Internal trace information	Normal trace
	TWAIN driver trace information	Normal trace
Level 4	Internal trace information	Normal trace
	TWAIN driver trace information	Maximum trace
	Packet capture information	Trace size = 68 byte
Level 5	Internal trace information	Maximum trace
	TWAIN driver trace information	Maximum trace
	Packet capture information	Trace size = Full size

* Packet capture information, that is performed in full size, requires careful handling because it contains private information such as mail addresses.

* Level 5 may deteriorate the performance.

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2. Downloading the Maintenance Information (Collective download)

(1) Log in with Maintenance mode.

Carry out the operation by the Admin Tool via network.

The user name and the password are as follows:

Model name	Login mode	User name	Password
fi-6000NS	Maintenance Mode	fi-maintenance	fi-scanner6-maintenance
fi-6010N			

- Enter the user ID and password, and then press the [Login] button.
➔ "Menu" screen appears.

(2) On the "Menu" screen,
1. Select the [Maintenance] tab on the top menu.
2. Select the [Technical Support] tab on the left side menu.
➔ "Technical Support" screen appears.

(3) Enter the desired "Information output level" for technical support. (The default is Level 1.)
If you want to change the information output level, press the [Set] button after entering the desired level.
The output level is changed after the [Set] button is pressed. (The level of the past logs is not changed.)

Refer to the [Log Information Level List] in Appendix 2-1 for details.
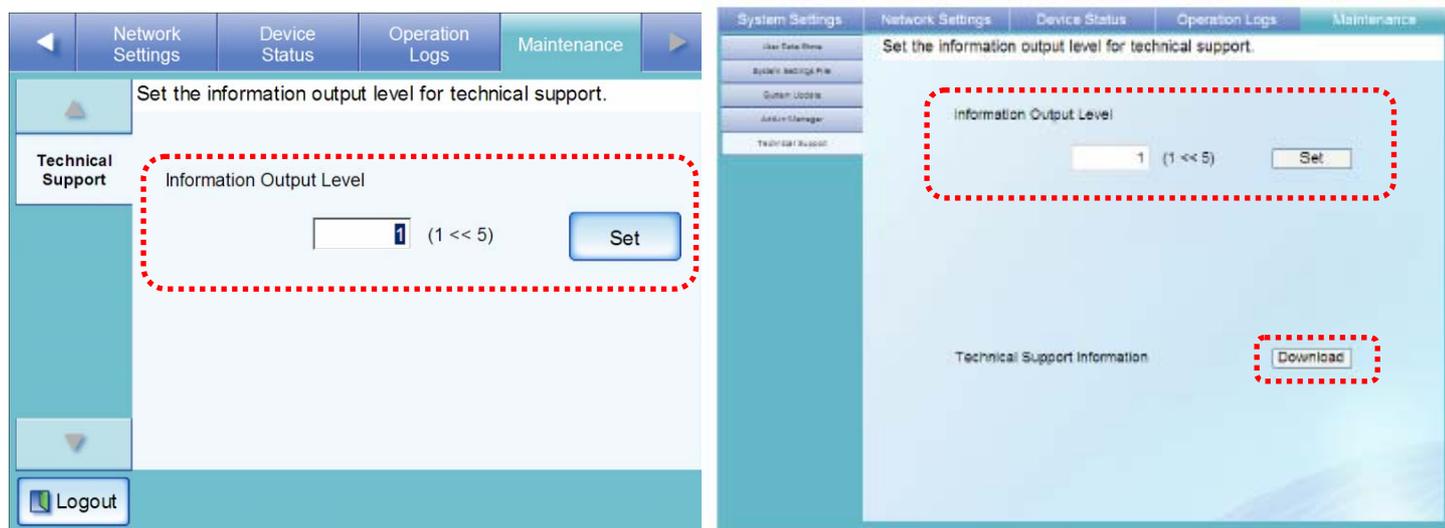
(4) The downloaded files are in Cab format. Use an unzipping program to decompress the files.
The directory configuration after decompression is as shown in the table below.

Configuration / File name			Contents
Technical_Support _Data date	System	System.log	System log
		TraceLog_date	Internal trace (User function)
	AriesLog	(*1)	Internal trace (Administrator function)
	Users	User name / Operation.log	Operation log (User function)
	DrWatson	(*1)	Watson log
	EventLog	Application.csv	Windows event log (CSV format)
		System.csv	
		Others (*1)	
	(*1)		System information, etc.

*1: You do NOT need to be conscious of the contents of the obtained files unless you are the developer.

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