

DocuMate 162

Service Manual



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1. INTRODUCTION

1.1 General Notes for Servicing

1.2 General Description

This manual is intended to be used by the maintenance engineers. It describes areas to be maintained, the detailed installation, the disassembly of Auto Document Feeder, and the component replacement procedures as well as the main trouble shooting guides.

Please take your time to read this manual thoroughly to obtain comprehensive knowledge about the DocuMate 162 before serving the unit.

1.1 General notes for servicing

- (1) Before trying to disassemble the DocuMate 162, make sure the power supply cord of the DocuMate 162 is disconnected from the power outlet. Under any circumstance, do not remove or install the connectors on the DocuMate 162 with the power supply turned ON.
- (2) Use caution not to drop small parts or screws inside the unit when disassembling and reassembling. If left inside, they might cause the malfunction of the unit.
- (3) Do not pull the connector cable when disconnecting it. Hold the connector.
- (4) When carrying the scanning head unit, put it in an anti-static bag.
- (5) Keep the document table glass surface always clean. If contaminated, use a dry clean cloth for cleaning.
- (6) Use caution not to injure your fingers or hands when disassembling or reassembling the unit.

1.2 General Description

The DocuMate 162 which features small footprint and fast scan rate is the perfect companion at your desktop. The build-in automatic document feeder allows 50 sheets of documents to be scanned continuously at one time and achieves fast scan rate of 25 pages per minute.

2. SPECIFICATION

2.1 Basic Specifications

Product Name:	DocuMate 162
Type:	Sheetfed duplex scanner
Optical Resolution:	600 dpi
Color Depth:	48-bit Color (input) 24-bit Color (output) single pass color (R, G, B)
Image Type:	B&W Gray Color
ADF Scan Speed: (NONE Channel at 200dpi B&W A4 size)	25 pages per minute
Scan Area:	ADF: minimum: 3.5" x 2" (88 x 50 mm) ADF: maximum: 8.5"x 14" (215 x 355 mm)
Paper Size:	ADF Max.: 8.5" x 14" (Legal) ADF min.: 3.5" x 2"
Paper Thickness:	16 – 28 lbs/0.002" ~ 0.006"
Paper Input (ADF):	up to 50 sheets
Physical Dimension: HxWxD	156 mm x 308 mm x 145 mm
Weight:	2.2 kgs
Interface:	USB 2.0
Power Source:	100~240Vac, 50/60 Hz (input) 24V, 2.0A (output)
Power Consumption:	≤ 30 Watts (operation) < 6 Watts (standby)
Lamp Life	15,000 hours
ADF Pad Life	50,000 scans(at Xerox 4024 DP 20 lb. Paper)
Temperature	10°C to 35°C
Humidity	10-85%RH
Storage Temperature	-40°C→65°C

3. UNPACKING, INSTALLATION, AND TRANSPORTATION

- | |
|---|
| <ul style="list-style-type: none">3.1 Precautions of Installation3.2 Unpacking Procedure3.3 Installation3.4 Placing the Original3.5 Transportation |
|---|

3.1 **Precautions of Installation**

Pay attention to the following matters before unpacking and installation.

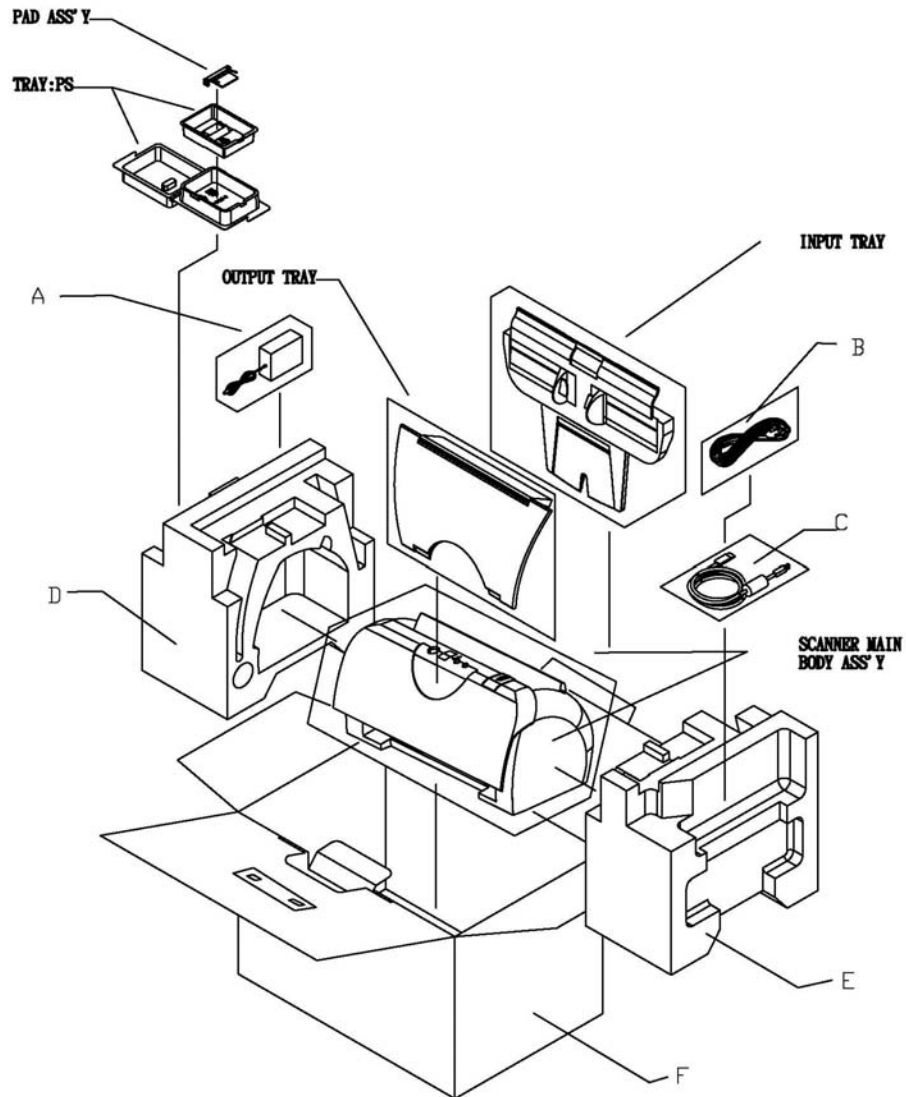
- Do not install in a place where vibration may occur.
- Keep the DocuMate 162 out of direct sunlight. Do not install near a heat source.
- Do not place the DocuMate 162 around materials which shut off the circulation of air.
- Do not install in a humid or dusty place.
- Use care not to scratch the glass surface of the DocuMate 162 or the document holding pad with a clip or staple.
- Do not use the wall socket with connecting devices which may generate noise, for example, air-conditioner, etc.
- Use a suitable AC power source.
- Place the DocuMate 162 on a level surface.

3.2 **Unpacking Procedure**

Unpack the DocuMate 162 according to the following procedure.

- Remove the packing material.
- Remove the DocuMate 162 from the shipping container.
- Remove the DocuMate 162 from the PVC bag.
- Check the items by referring to Figure 3.1.
- For any missing items, please contact your nearest dealer or distributor.

Note: Keep all the packing material in case you may need to return the DocuMate 162.



- A. Adapter
- B. AC Power Cord
- C. USB Cable
- D. EPS Foam
- E. EPS Foam
- F. Carton

Figure 3.1 Package Contents

4. THEORY OF OPERATION

- 4.1 Introduction
- 4.2 Main Control Unit

4.1 Introduction

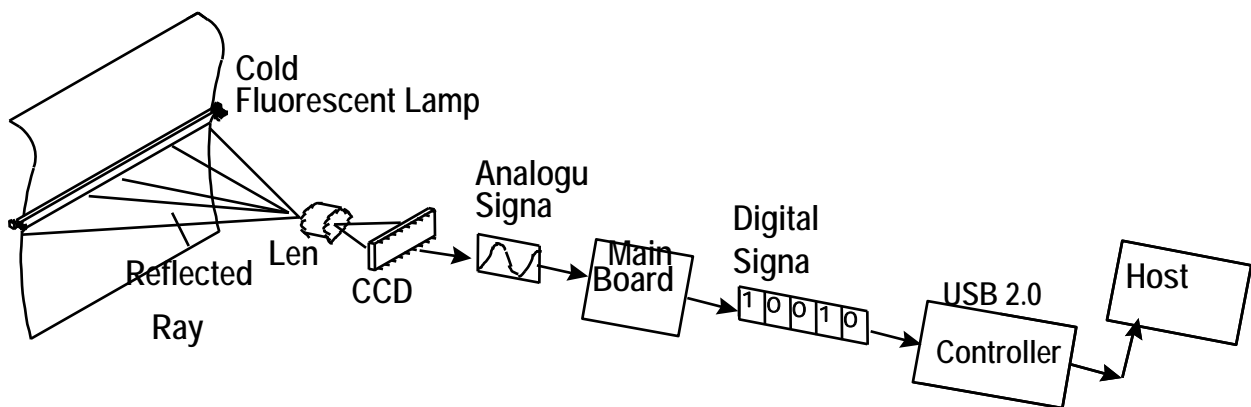


Figure 4.1 Theory of Operation

The reflected rays of your original as shown in the above Figure 4.1 pass through the lens and create an image on the CCD (Charged Coupled Device). Then, according to the different light intensity perceived by the CCD, the CCD will transfer these data into a series of analog signals to the main board, where the signals are turned into digital signals. The digital signals flows to the USB 2.0 Controller to transfer to a host computer.

4.2 Main control unit

4.2.1 System diagram

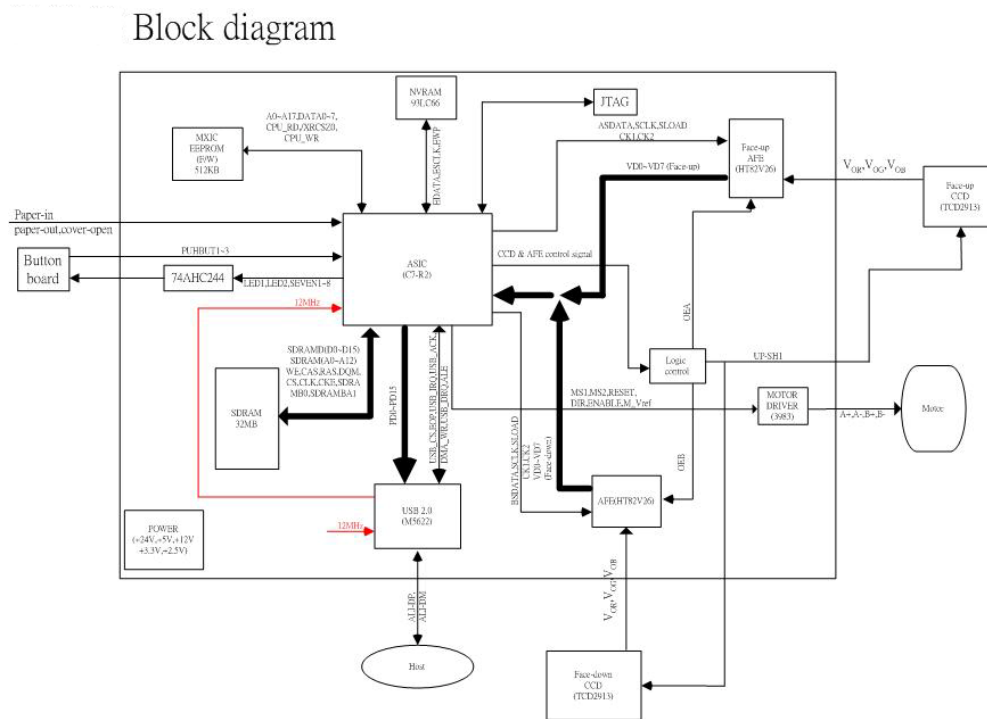


Figure 4.2 DocuMate 162 System block diagram

4.2.2 Main control circuit

This scanner is controlled by the tensilica 32 bits CPU. The CPU is configured with a 512-KB external ROM program area, a 32-MB external SDRAM work area, 2 timer / counters, 3 external interrupts.

Address Maps:

- ROM program area:

0000	512KB Program
7FFFF	

- External SDRAM working area:

00	32MB
1FFFFFF	Internal Registers

4.2.3 Video circuit:

The video circuit of this DocuMate 162 includes: 1. CCD driving circuit, 2. CCD signal processing circuit.

1. CCD Driving Circuit

The CCD driving circuit is used to generate correct signals to the CCD, so that the CCD may generate the correct image data.

Signals for CCD:

Pin Assignment for CCD cable (Lower Optical)

Pin No.	Name	Function
1	VCC_5V	CCD Power
2	DGND	Digital Ground
3	VCC_5V	CCD Power
4	DN_SH	Face down CCD RGD Channel Shift Gate
5	PH1-ASIC	CCD Clock Phase
6	PH2-ASIC	CCD Clock Phase
7	CP-ASIC	Clamp Gate
8	RS-ASIC	CCD Reset Gate
9	SW1	Switch Gate
10	SW2	Switch Gate
11	BVINR	Signal Output(Red)
12	AGND2	Analog Ground
13	BVING	Signal Output (Green)
14	AGND2	Analog Ground
15	BVINB	Signal Output (Blue)
16	AGND2	Analog Ground
17	VCC-12V	CCD Power
18	AGND2	Analog Ground

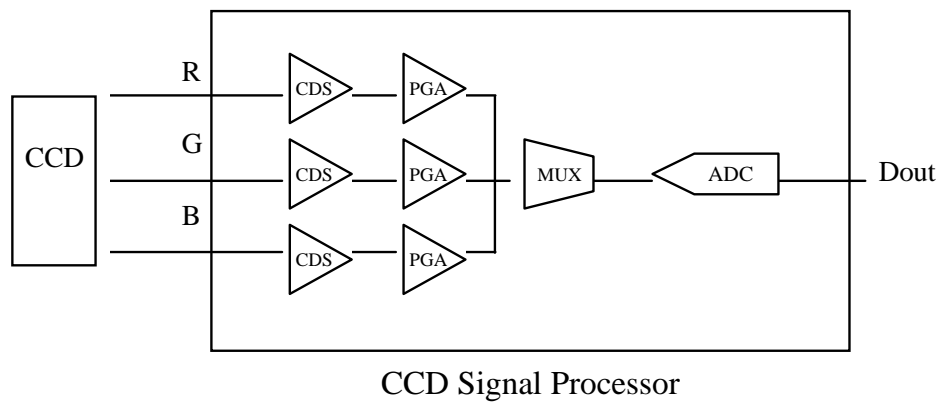
Pin Assignment for CCD cable 1 (Upper Optical)

Pin No.	Name	Function
1	VCC_12V	CCD Power
2	VCC_12V	CCD Power
3	AGND1	Analog Ground
4	AGND1	Analog Ground
5	SW1	Switch Gate
6	VP_SH	CCD RGB Channel Shift Gate
7	PH 1-ASIC	CCD Clock Phase
8	PH 2-ASIC	CCD Clock Phase
9	RS-ASIC	CCD Reset Gate
10	CP-ASIC	Clamp Gate
11	SW2	Switch Gate
12	DGND	Digital Ground
13	VCC_5V	CCD Power
14	VCC_5V	CCD Power

Pin Assignment for CCD cable 2 (Upper Optical)

Pin No.	Name	Function
1	AGND1	Analog Ground
2	AVINB	Signal Output (Blue)
3	AGND1	Analog Ground
4	AVING	Signal Output (Green)
5	AGND1	Analog Ground
6	AVINR	Signal Output (Red)

2. CCD signal processing circuit



The CCD signal processor includes all the necessary circuitry to perform three-channel conditioning and sampling. The signal chain consists of three-channel correlated double sampling (CDS) and programmable gain adjustment of the CCD output (PGA) is a 8 bit analog to digital connector (ADC) quantizes the analog signal.

4.2.4 LED and Push Button Module Circuit

The circuit for the LED and Push Button modules shows the function of the entire scanner including the Error LED (Red), the Ready LED (Blue) and the Push Button.

Pin assignment of LED module

Pin No.	Name	Function
1	VCC_5V_S	Power Supply
2	DGND	Digital Ground
3	Button 1	Function Select
4	LED R	LED Red Light
5	LED B	LED Blue Light
6	Button 2	Simplex
7	Seven 1	Seven segment display
8	Seven 2	Seven segment display
9	Seven 3	Seven segment display
10	Seven 4	Seven segment display
11	Seven 5	Seven segment display
12	Seven 6	Seven segment display
13	Seven 7	Seven segment display
14	Seven 8	Seven segment display
15	Button 3	Duplex

4.2.5 Sensor input

Photo_Sensor

The sensor input includes paper in/out sensor.

Paper In/Out sensor

The paper position is detected by photo sensor. The photo transistor transmission to the photo sensor receiver circuit is shown below.

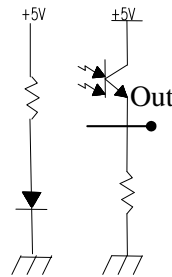
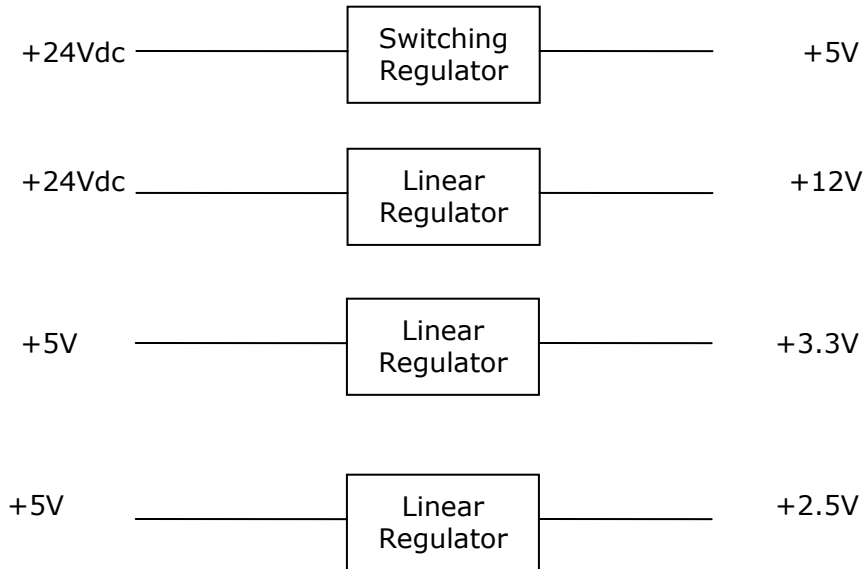


Figure 4.3 Paper in/out sensor

The paper in/out sensor is detected when the paper passes between the LED and the photo transistor.

4.2.6 Sub power supply circuit

The sub power supply circuit is provided for the internal analog circuit. Input is 24V and output is Vcc and +5Va. The circuit configuration is shown below:



The sub power supply is used for: A/D, and logic circuits.

4.2.7 Power supply

In this system, there is only one type of power supply. Please see Table 4.1 for details.

Table 4.1 Power Adapter

Type Characteristic	Wall-mount
Input voltage range	100-240V
Input current (at the rated input/output)	1A type or less
Input frequency	50-60Hz
Max. in-rush current(@full load, cold start)	70A
Output voltage	+24Vdc
Min. load current	0.0A
Max. load current	2A
Total power (at full load)	48W

5. PROBLEM SOLVING

5.1 Diagnostics

5.2 Troubleshooting

This chapter supplies two paths for dealing with operational problems. The first relies on the DocuMate 162's internal diagnostics. The second uses troubleshooting flowcharts and tables to isolate the problem. In many cases, the internal diagnostics will help you to locate the source of the problem quickly. Use these diagnostics first. If the diagnostics do not locate the source of the problem, refer to Section 5.2 **Troubleshooting**.

5.1 Diagnostics

The DocuMate 162 has internal diagnostics to help you determine the cause of operational problems. Some of the diagnostics function with the scanner online, while others are part of a separate offline diagnostics feature.

5.1.1 Online diagnostics

Determine operational problems by observing the display panel Error, Ready ,and Check LEDs. With the scanner online and operating normally, the Ready LED is on and the Error LED is off. Any other Error LED indicates a problem, as shown in the following table.

Ready LED	Blue LED On
Check LED	Blue LED Blinking
Error LED Indication	RED LED Blinking (Group Error)

Table 5.1 Online diagnostics

If the ADF cover is open, close it. For the group errors, see the flowcharts later in this section.

5.1.2 Offline diagnostics

To run the offline diagnostics, and turn the power back on. When you first turn the scanner back on, the Power light will blink, indicating that the diagnostics are in progress. Observe the front panel Error LED closely. In a short time, the Error LED indicates the results of the offline diagnostics as explained in the table below.

Power LED (Green)	Error LED (RED)	Error Indication
ON (No blinking)	OFF	OK (Ready)
OFF	6	Light check failure
OFF	8	Paper jam
OFF	12	ADF Light check failure
OFF	15	Cover open error

Table 5.2 Offline diagnostics results

For SRAM & DRAM error, refer to Main Control PCBA Replacement in Chapter 4. For the Group 2 error, see the flowchart in the following section.

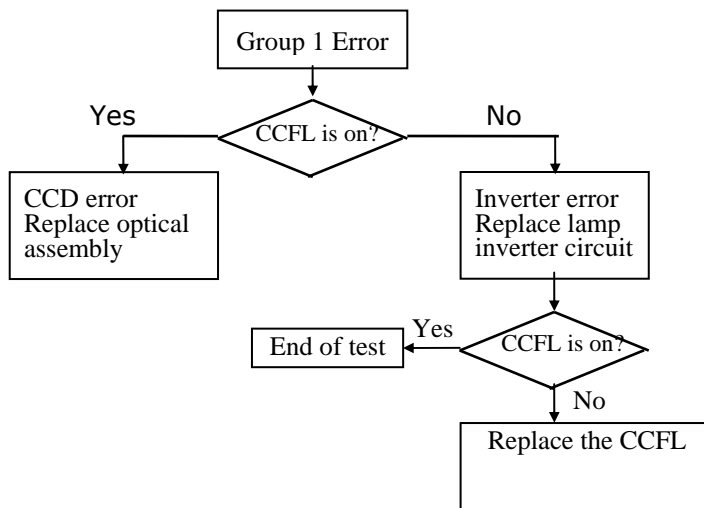
To return the scanner to online operation, turn off the scanner, turn the scanner back on.

5.1.3 Diagnostic flowcharts

Use the flowcharts that follow to determine the exact problem when either the online or offline diagnostics indicate a group error. Refer to Chapter 4 for parts replacement.

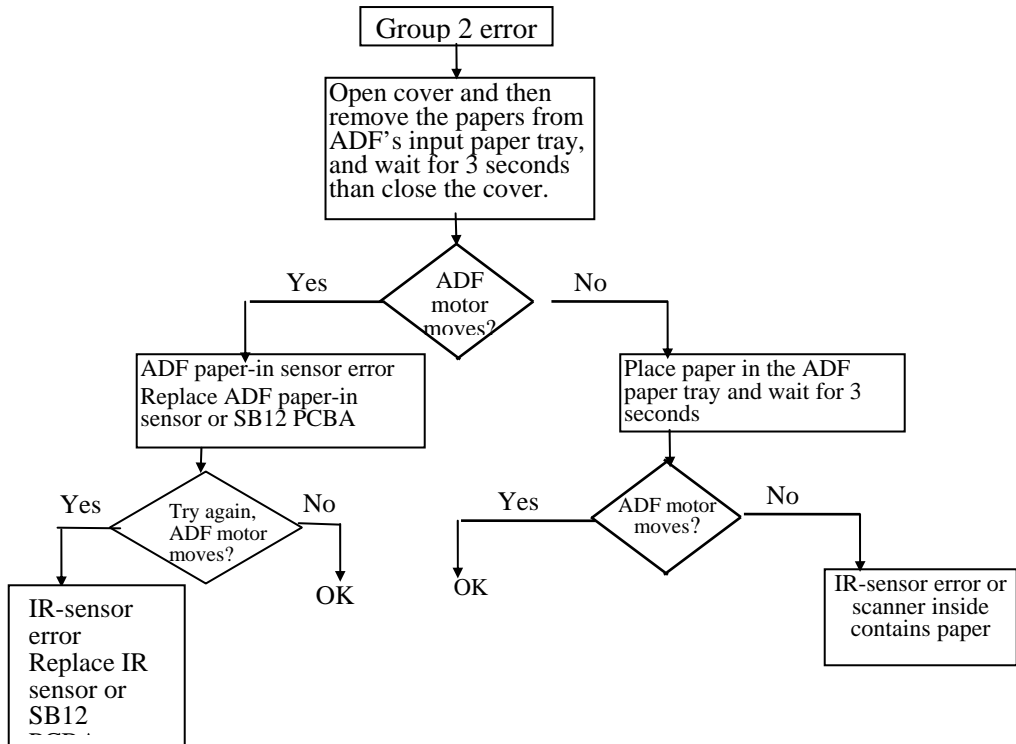
5.1.3.1 Group 1 error flowchart (CCFL assembly)

This flowchart applies when the Error LED shows number 6.



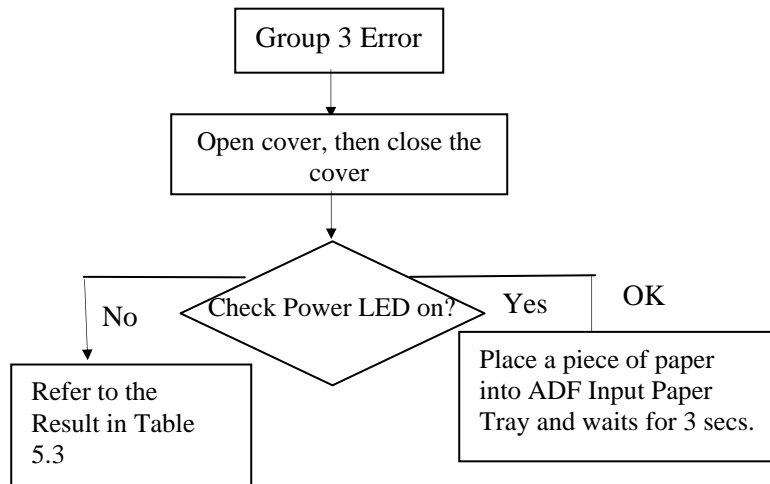
5.1.3.2 Group 2 error flowchart (paper in ADF paper tray)

This flowchart applies when the Ready LED is off and Error LED shows number 8 with the scanner online, and there is paper in the ADF paper tray.



5.1.3.3 Group 3 error flowchart (no paper in ADF paper tray)

This flowchart applies when the Power LED is off and Error LED shows number 10 with the scanner online, and there is no paper in the ADF paper tray.



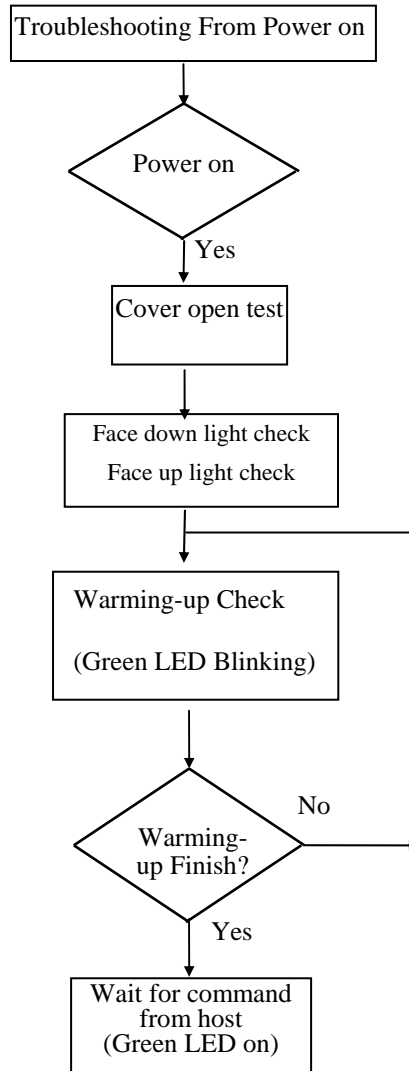
5.2 Troubleshooting

Refer first to the applicable troubleshooting flowchart in the following three sections. The flowcharts refer you to the appropriate table for detailed troubleshooting.

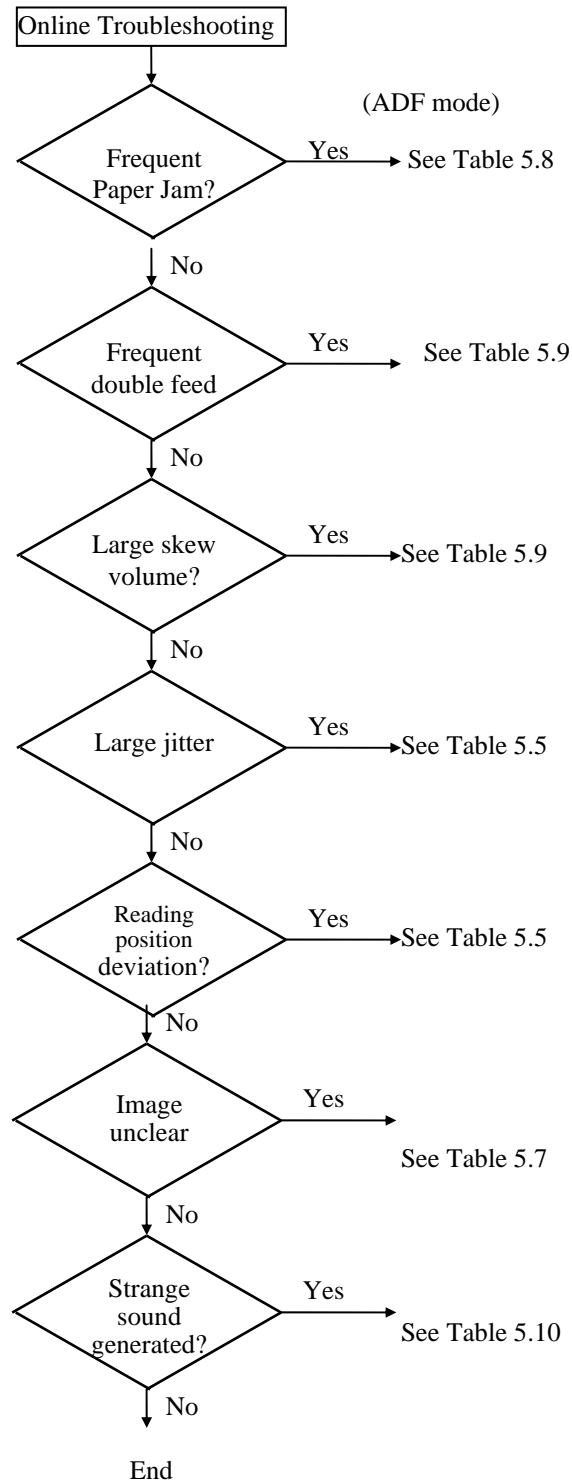
5.2.1 Flowcharts

This section provides the following troubleshooting flowcharts:

- Troubleshooting from power on to scanner ready
- Online troubleshooting (ADF operation)

5.2.1.1 Troubleshooting flowchart: power on to scanner ready.

5.2.1.2 Troubleshooting flowchart: online ADF operation



5.2.2 Tables

The tables in this section provide detailed troubleshooting information.

5.2.2.1 Reading is not performed

Cause	Relevant Unit	Check Method	Maintenance Method	Remark
ADF cover open	ADF cover	Visual check	Close the ADF cover.	None

Table 5.3

5.2.2.2 Image does not appear

Cause	Relevant Unit	Check Method	Maintenance Method	Remark
ADF cover open	ADF cover	Visual check	Close the ADF cover	None
Power supply-main control board connection failure	None	Visual check	Connect the connector.	None
Power supply fails.	Power supply	Tester check (+24V, GND)	Replace the power supply.	None
Lamp failure	Lamp	Visual check	Replace the lamp.	None
Inverter failure	Inverter	Visual check	Replace the inverter.	None
CCD board-main control board connection failure	None	Visual check	Connect the connector.	None
CCD board fails.	CCD Board	Visual check	Replace the optical unit.	None

Table 5.4

5.2.2.3 Large jitter

Cause	Relevant Unit	Check Method	Maintenance Method	Remark
Power supply-main control board connection failure	None	Visual check	Connect the connector.	None
Power supply fails	Power supply	Tester check (+24V, GND)	Replace the power supply.	None
Motor-main control PCBA connection failure	None	Visual check	Connect the connector.	None
Motor failure	Motor	Visual check	Replace the motor.	None

Table 5.5

5.2.2.4 Reading position deviation

Cause	Relevant Unit	Check Method	Maintenance Method	Remark
Power supply-main control board connection failure	None	Visual check	Connect the connector.	None
Power supply fails	Power supply	Tester check (+24V, GND)	Replace the power supply.	None
Motor- main control PCBA connection failure	None	Visual check	Connect the connector.	None
Motor failure	Motor	Visual check	Replace the motor	None

Table 5.6

5.2.2.5 Image unclear

Cause	Relevant Unit	Check Method	Maintenance Method	Remark
Lamp too dark	Lamp	Visual check	Replace with a new lamp.	None
Dirt on calibration reference plate	Calibration reference plate	Visual check	Clean the glass with isopropyl alcohol.	None
Dirt on calibration reference plate	Calibration reference plate	Visual check	Clean the calibration reference plate with isopropyl alcohol.	None
Dirt on the mirrors	Mirrors	Visual check	Clean the mirrors with isopropyl alcohol.	None
Dirt on the lens	Lens	Visual check	Clean the lens with isopropyl alcohol.	None

Table 5.7**5.2.2.6 Frequent paper jam**

Cause	Relevant Unit	Check Method	Maintenance Method	Remark
Paper setting failure	Operation error	Is the paper correctly set in the paper chute?	Teach users to properly position the paper.	None
Paper failure	operation error	Is the specified paper used?	None	None
Pad assembly failure	Pad assembly	Check the pad assembly for wear and tear	Replace the pad assembly/ touch spring unit.	None

Table 5.8

5.2.2.7 Frequent double feed and skew

Cause	Relevant Unit	Check Method	Maintenance Method	Remark
Paper setting failure	Operation error	Is the paper correctly set in the paper chute?	Teach users to properly position the paper	None
Paper failure	Operation error	Is the specified paper used	None	None
Pad assembly failure	Pad assembly	Check the pad assembly for wear and tear.	Replace the pad assembly/ touch spring unit.	None

Table 5.9

5.2.2.8 Strange sound generated (ADF)

Cause	Relevant Unit	Check Method	Maintenance Method	Remark
Paper setting failure	Operation error	Is the paper correctly set in the paper chute?	Teach users to properly position the paper	None
paper failure	Operation error	Is the specified paper used?	None	None

Table 5.10

6. DISASSEMBLY

- 6.1 Service Tools
- 6.2 Cleaning the ADF
- 6.3 Cleaning the Glass
- 6.3 Procedure for Disassembly and Reassembly

6.1 Service Tool

Table 6.1 describes the maintenance tools necessary for the maintenance of this equipment.

No.	Name	Description
1	Minus screwdriver	Idler pulley module screw
2	Philips screwdriver (magnetic)	Nominal No.2 M3, M4
3	Alcohol (Isopropyl 91% >)	Cleaning
4	Digital voltmeter	With 0.01 V range
5	Oscilloscope	100 MHz or more with external sweep

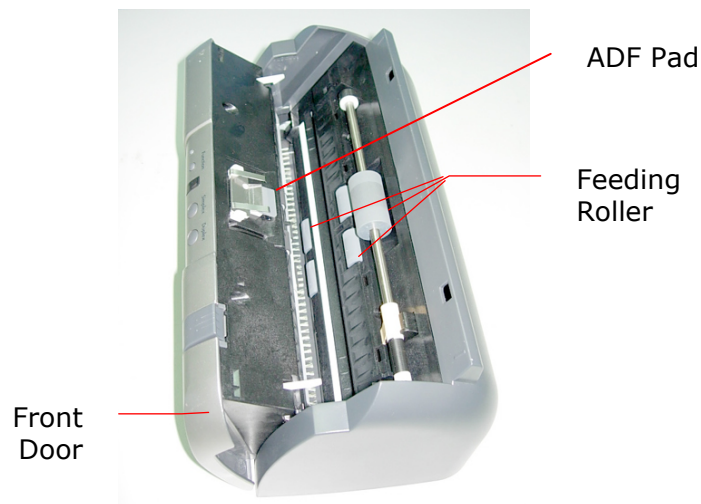
Table 6.1 Maintenance tools

6.2 Cleaning the ADF

From time to time the ADF pad and feeding rollers may become contaminated with ink, toner particles or paper dust. In this case the scanner may not feed documents smoothly. If this occurs please follow the cleaning procedures to return your machine to its original state.

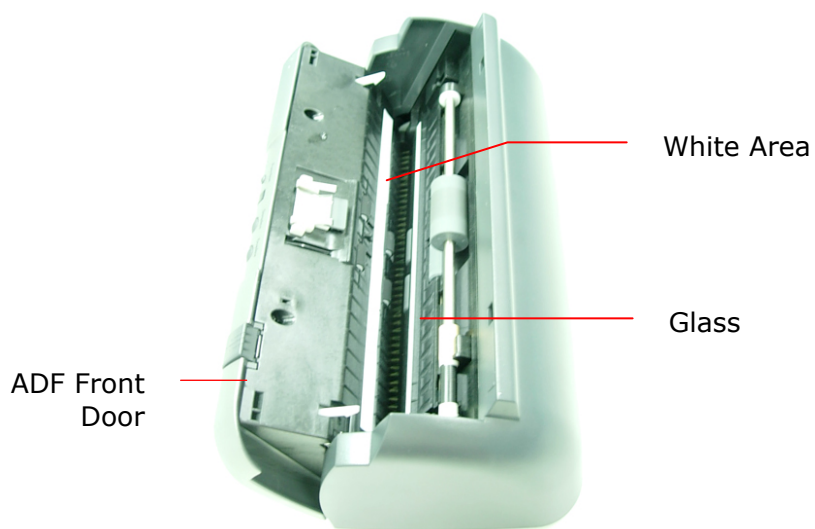
The Cleaning Procedures

1. Soak a cotton swab with some isopropyl alcohol. (95%).
2. Press the ADF release button. Open the front door to the left. Wipe the upper feeding roller by moving the swab from side to side. Rotate the roller forward with your finger and repeat the cleaning steps above until the entire roller is cleaned.
3. Wipe the end of the pad. Be careful not to damage the pick springs.
4. Close the scanner front door. Your scanner is now ready for use.



6.3 Cleaning the Glass

1. Press the ADF Release button. Open the front door to the left.
2. Wet a cotton swab with some isopropyl alcohol. (95%)
3. Wipe the glass and the white area as illustrated in below by moving the swab from side to side to rid the dust or dirt.



6.4 Procedure for disassembly and reassembly

6.4.1 Notes on disassembly

- (1) Clean the disassembly and assembly location.
- (2) Disconnect the power cable and remove the AC plug from the outlet before disassembly and assembly.
- (3) Follow the disassembly and assembly procedures. Never loosen the screws of parts that must not be disassembled.
- (4) Store the disassembled parts in a clean place to avoid loss.
- (5) After replacement, check the contacts and spare part mounting.
- (6) Assemble the parts in reverse order of disassembly procedure.

6.4.2 Removing the Input Tray

1. Move forward the ADF release button.
2. Open the Front Door to the left.
3. Hold two sides of the Input Tray as indicated to remove it.



ADF Release Button



Input Tray

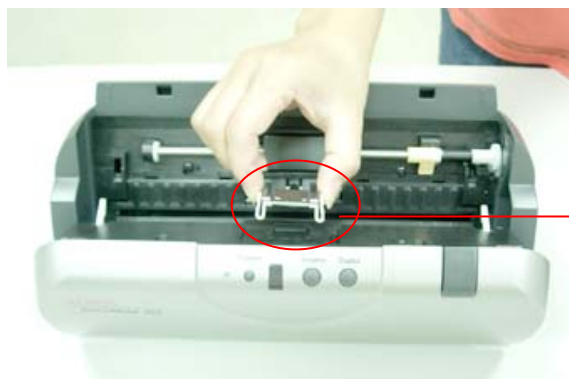
Front Door

6.4.3 Removing the ADF Snap-in Pad

1. Move forward the ADF release button.
2. Open the Front Door to the left.
3. Use your fingers to hold two sides of the ADF Snap-in Pad to remove it.



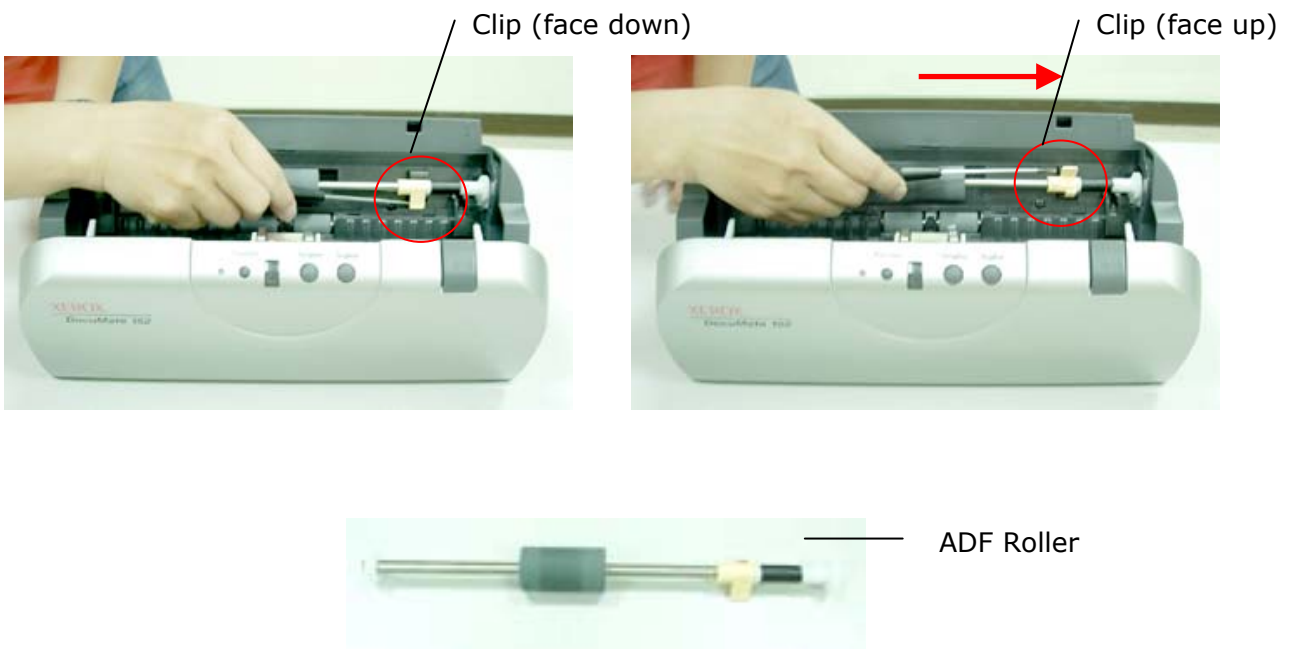
ADF Release Button



ADF Snap-in Pad

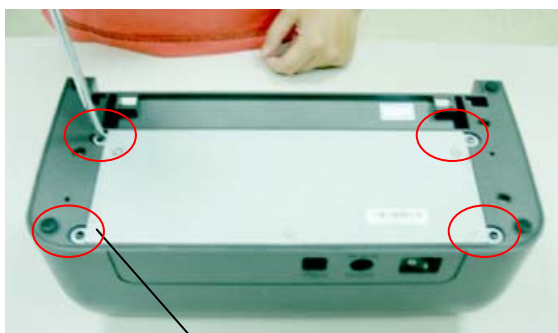
6.4.4 Removing the ADF Roller

1. Move forward the ADF release button and open the Front Door to the left as described in section 6.4.4.
2. Move the yellow clip of the ADF roller face up with a flat screw driver as indicated.
3. Hold and press the roller in the arrow direction as indicated to remove the roller.



6.4.5 Removing the Main Board

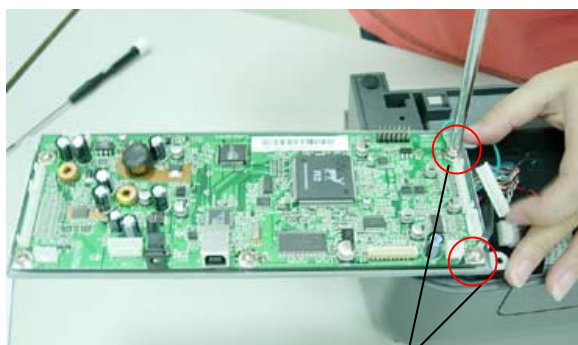
1. Remove the Input Tray as described in preceding section (sec. 6.4.2).
2. Turn over the scanner. Remove four fixing screws of the main board.
3. Raise the main board cover and disconnect all cables. The main board is removed.



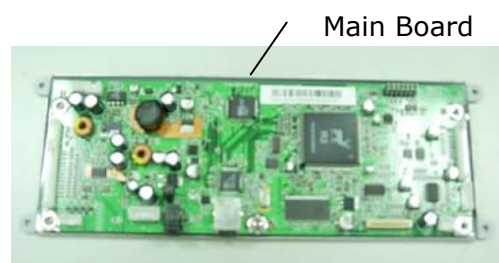
Fixing Screws (M3x6) x 4



Main Board



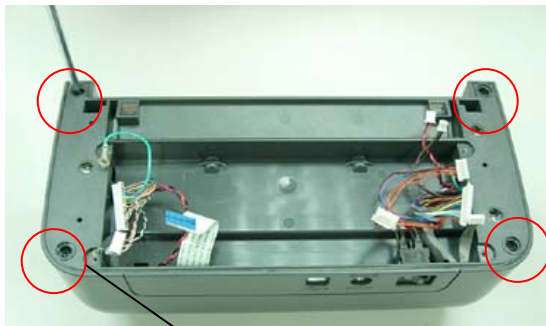
Fixing Screw (M3x6) x 2



Main Board

6.4.6 Removing the Upper Housing

1. Remove the Input Tray as described in preceding sec. 6.4.2.
2. Remove the Main Board as described in preceding section 6.4.5.
3. Turn over the scanner as illustrated. Remove four rubber stands on the corners and then remove the fixing screws.
4. Turn over the scanner to its normal position and hold the power switch to gently remove the Upper Housing as indicated and then lift it up.



Fixing Screws (M3x8) x 4



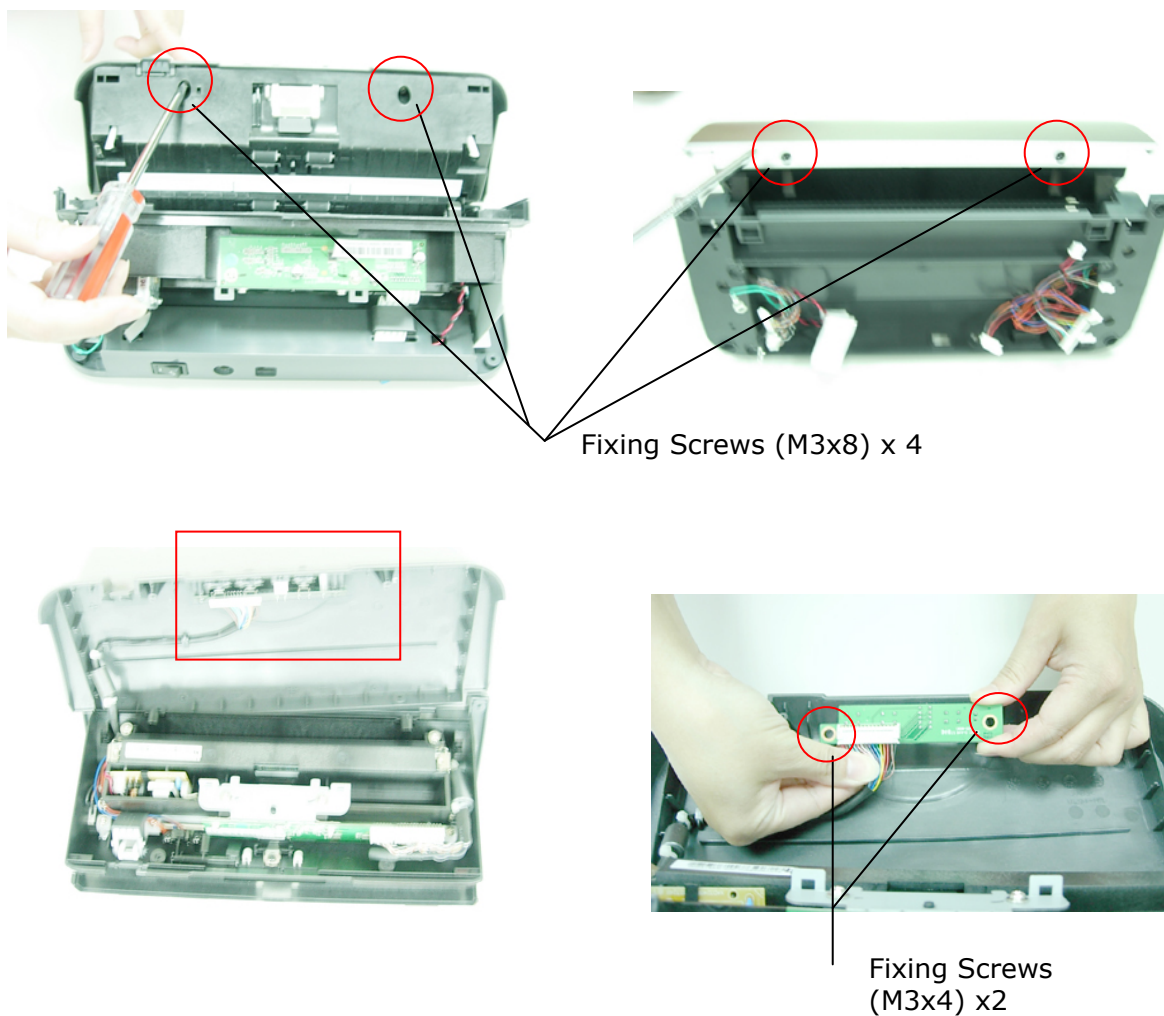
Upper Housing



Upper Housing

6.4.7 Removing the Button Panel PCBA

1. Remove fixing screws of the ADF unit.
2. Turn the scanner over to remove the fixing screw (M3x8) of the front cover.
3. Open the Front Cover to reveal its bottom.
4. Disconnect the Panel PCBA cable and the fixing screws (M3x4) as illustrated.
5. Remove the Button Panel PCBA.

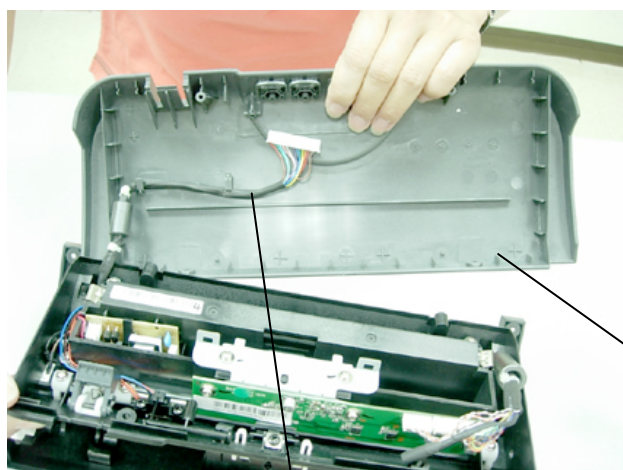




Button Panel PCBA

6.4.8 Removing the Front Cover

1. Remove Button Panel PCBA as described in 6.4.7.
2. Remove the Button Panel cable from the Front Cover.
3. Remove the Front Cover.



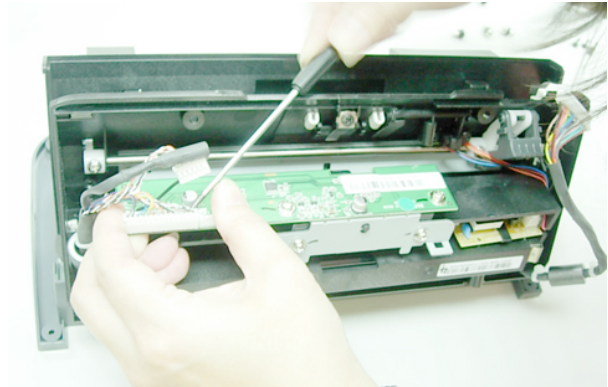
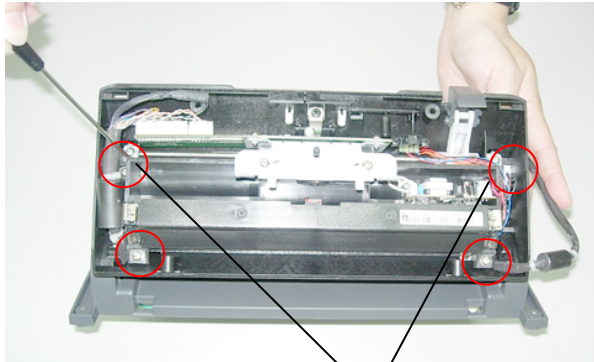
Button Panel Cable



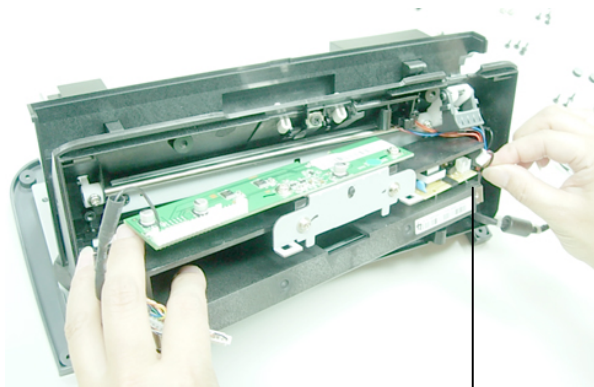
Front Cover

6.4.9 Removing the Optical Chassis (Upper)

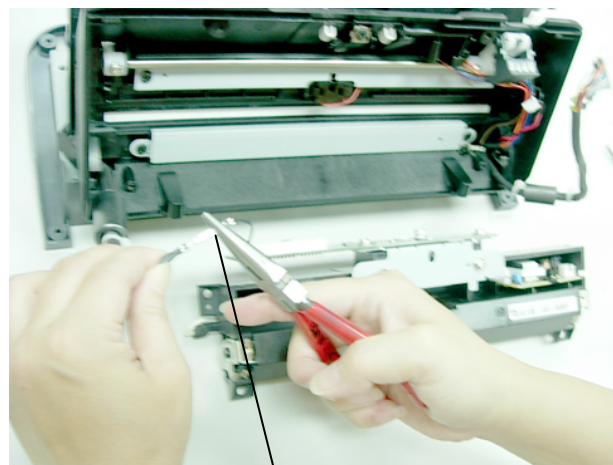
1. Remove fixing screws of the upper optical chassis.
2. Disconnect all cables (with a flat screw driver or a pair of pliers).



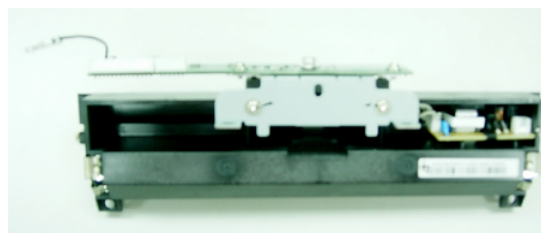
Fixing Screws (M3x6) x 4 pcs



Inverter Cable



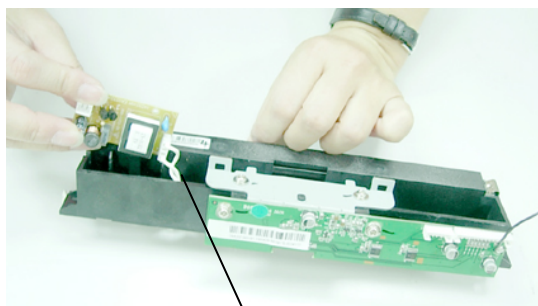
Ground Wire



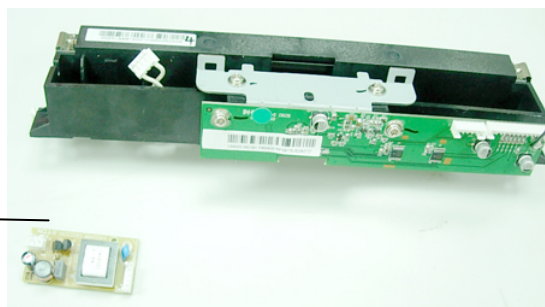
Optical Chassis (Upper)

6.4.10 Removing the Inverter (Upper)

1. Remove the Upper Optical Chassis as described in 6.3.9.
2. Disconnect the inverter cable.



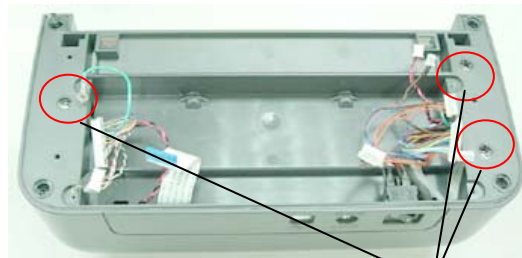
Inverter Cable



Inverter

6.4.11 Removing Paper Guide (Lower)

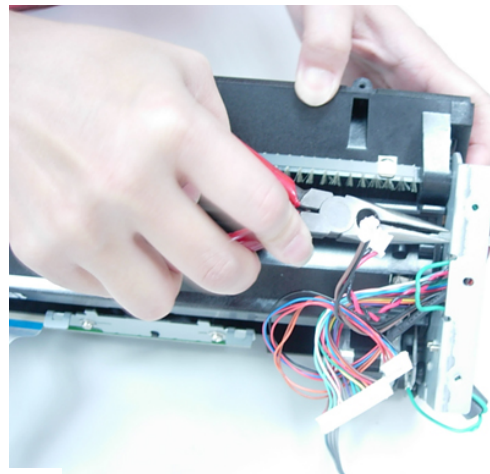
1. Turn over the scanner.
2. Remove three fixing screws as illustrated.
3. Open the bottom cover and remove the lower chassis assembly as illustrated.
4. Disconnect all cables pull the cables out of the metal board.
5. Remove four fixing screws of the lower chassis.
6. Remove the Lower Paper Guide.

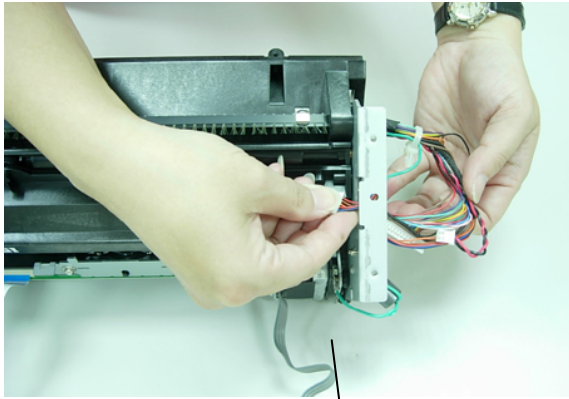


Fixing Screws

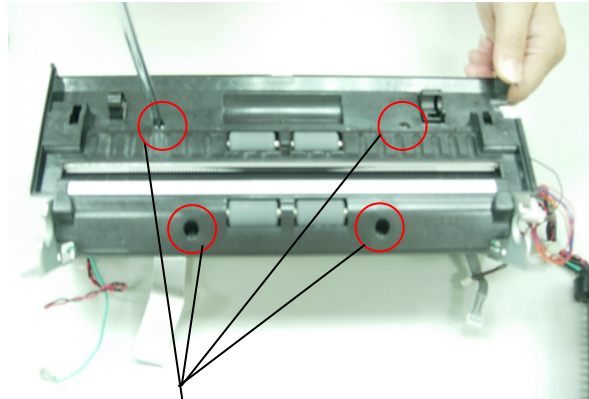


Lower Chassis Assy





Pull the cables out of the metal board.



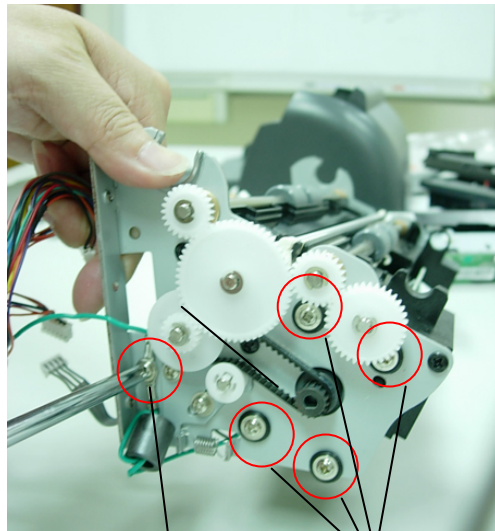
Fixing Screws
(M3x6) x 4



Paper Guide, Lower

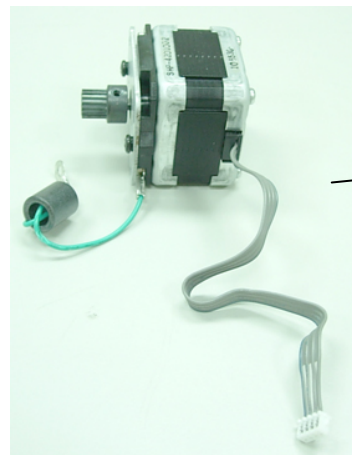
6.4.12 Removing the Motor (Lower)

1. Remove the Lower Chassis as described in sec. 6.3.11.
2. Remove the fixing screw for ground wire as illustrated.
3. Remove four the fixing screws of the motor.



Screw for
ground
wire

Fixing screws (M3x3.5) x 4

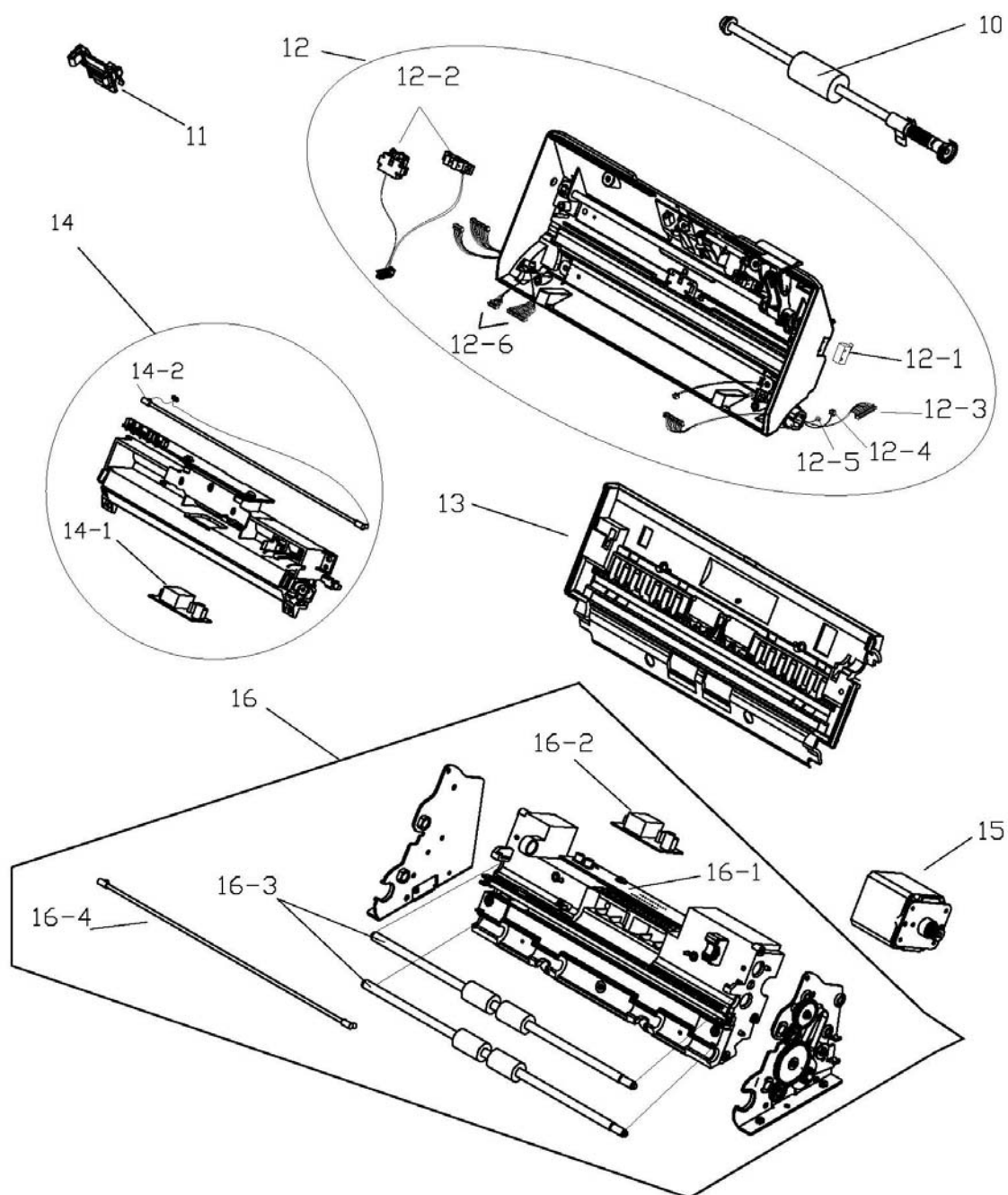


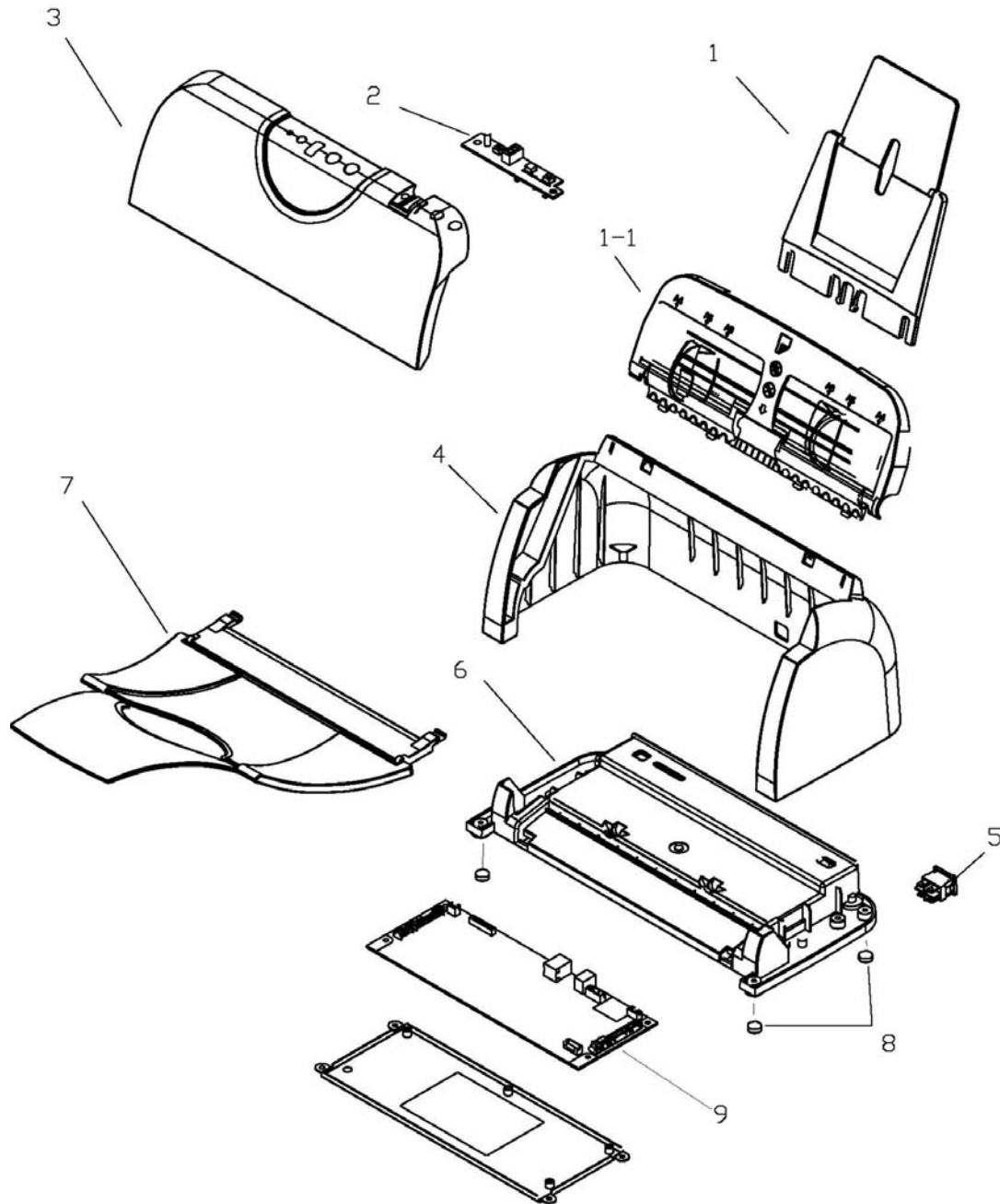
Motor

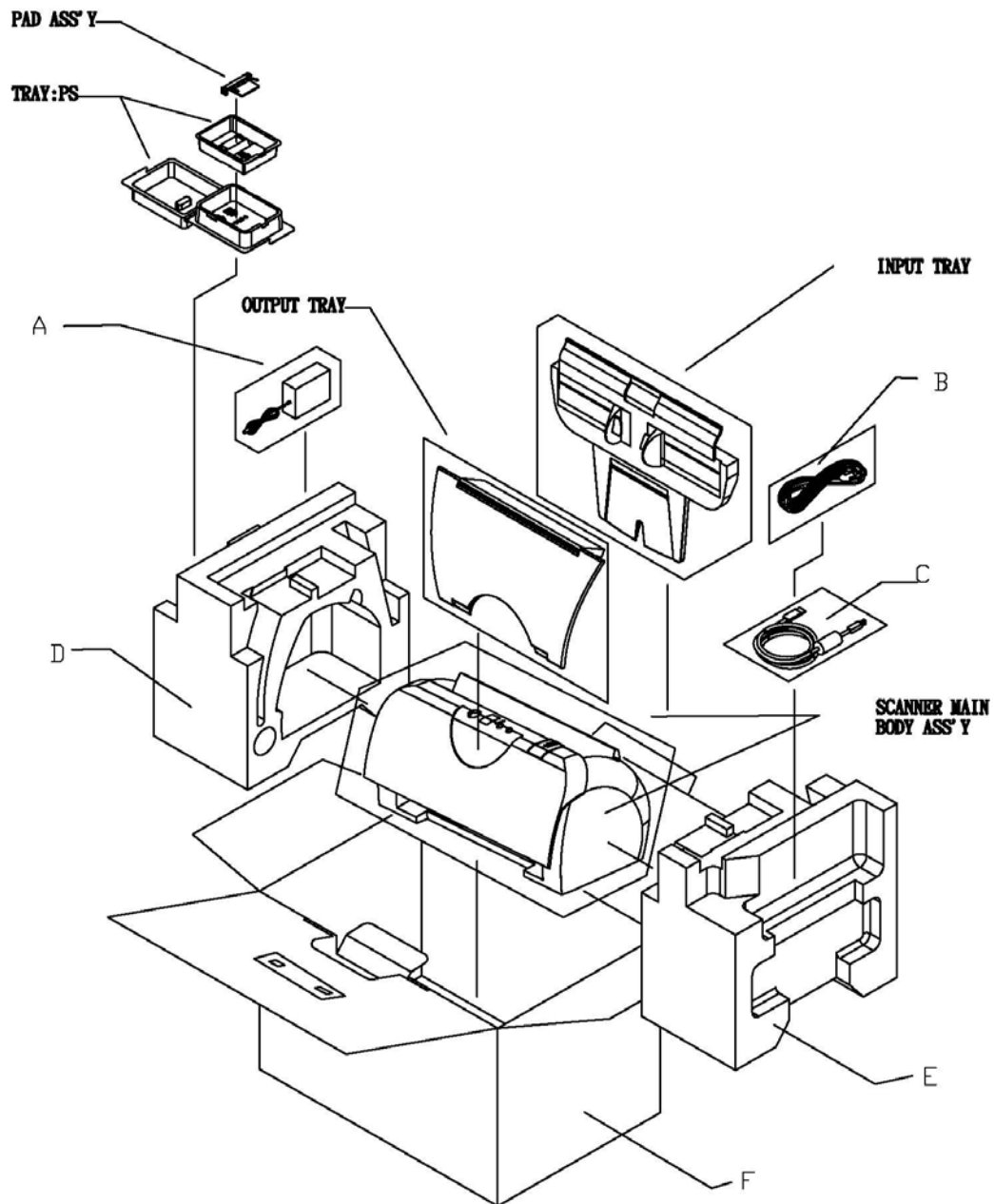
7. PARTS

7.1 Spare Part Diagram/Table

7.1 Spare part diagram







**XEROX DocuMate 162
SERVICE PARTS TABLE**

VISIONEER P/N	DESCRIPTION
65-0503-000	S-PARTS: ASS'Y, EXTEND, DM162, RoHS
65-0504-000	S-PARTS: ASS'Y, INPUT TRAY, W/O Extend, DM162, RoHS
65-0505-000	S-PARTS: PCBA, LBAB7, DM162, RoHS
65-0506-000	S-PARTS: ASS'Y, FRONT COVER, DM162, RoHS
65-0507-000	S-PARTS: HOUSING, UPPER, ABS, 2.St, 306x144x136.5, 0 12-0079-OG, BLACK, DM162, RoHS
65-0508-000	S-PARTS: ASS'Y, POWER S/W, DWA003, SP, P=2.5mm, L=50mm, W/TUBE, DM162, RoHS
65-0509-000	S-PARTS: HOUSING, BOTTOM, ABS, 2.St, 300x137.5x53, 012-0079-0, BLACK, DM162, RoHS
65-0510-000	S-PARTS: ASS'Y, OUTPUT TRAY, DM162, RoHS
65-0511-000	S-PARTS1: RUBBERSTAND, SILICON, 60, 10.7x5.5, DM162, RoHS
65-0512-000	S-PARTS: PCBA, MBA38B, W/FW (259-0207-1), DM162, RoHS
65-0513-000	S-PARTS: ASS'Y, ADF ROLLER, DM162, RoHS
65-0514-000	S-PARTS: ASS'Y, PAD, DM162, RoHS
65-0515-000	S-PARTS: ASS'Y, PAPER GUIDE, UPPER, DM162, RoHS
65-0516-000	S-PARTS: ASS'Y, SWITCH, SWITCH+2PHOUSING, DW-2P235, WIRE: L=235mm, DM162, RoHS
65-0517-000	S-PARTS: ASS'Y SENSOR, L/P SENSOR+PHOTOS ENSOR/6P, L=430/345mm, FI-23FF-AV21, DM 162, RoHS
65-0518-000	S-PARTS: CABLE, 1SP, L=360mm, 28AWG, DW201536, W/TUBE, W/CORE, DM162, RoHS
65-0519-000	S-PARTS: CABLE, INVERTER, 2P, L=200mm, 24AWG, DW-C1101, DM162, RoHS
65-0520-000	S-PARTS: CABLE, GROUNDING, L= 120mm, 22AWG, CS
65-0521-000	S-PARTS: CABLE, 6P+14P, P=2.0mm, L=290/270mm, UL1571 #28AWG, H007-411, WITUBE, 80 C , DM162, RoHS
65-0522-000	S-PARTS: ASS'Y, PAPER GUIDE, LOWER, W/GLASS, DM162, ROHS
65-0523-000	S-PARTS: ASS'Y, OPTICAL, FACEUP, DM162, RoHS
65-0524-000	S-PARTS: INVERTER, 24V, 6mA, 3SKHz, XAD324SR, TDK, DM162, RoHS
65-0525-000	S-PARTS: CCFL, 92. 6x250x1, X= 0.329(SR-3), Y=0.342(SR-3), FCF-1026002505-01, DM162, RoHS
65-0526-000	S-PARTS: ASS'Y, MOTOR, W/EMI CORE, DM162, RoHS
65-0527-000	S-PARTS: ASS'Y, OPTICAL, FACE DOWN, W/PLATE & DAMPER, DM162, RoHS
65-0528-000	S-PARTS: ASS'Y, OPTICAL, FACE DOWN, W/O INVERTER, DM162, RoHS
65-0529-000	S-PARTS: INVERTER, 24V, 6mA, 35KHz, XAD324SR, TDK, DM162 RoHS
65-0530-000	S-PARTS: ROLLER, FEED, p14.6, EPDM, 266.1, DM162, RoHS
65-0531-000	S-PARTS: CCFL, p2.6x250x1, X=0.329(SR-3), Y=0.342(SR-3), FCF-1026002505-01, DM162, RoHS
65-0532-000	S-PARTS: ADAPTER, DESK-TOP, IEC 320-C6, 3P, 100~240Vac, 24Vdc, 2A, 48W, HEG42-240200-7L(A) LF, HITRON, CLASS I, ENERGY STAR, DM162, RoHS
65-0182-000	S-PARTS: AC POWER CORD, EUR.(CEE), 2P+G.BASE, 16A/250V, L=1800mm, 3C*0.75mm2, BLACK, PG8B9CIJGOA-05B, RoHS, FI-SO1SC
65-0181-000	S-PARTS: AC POWER CORD: US, 3P, 10A/125V, L= 1800mm, 3C*18AWG, BLACK, PH8B2EDJFOA-05B, RoHS, FI-SO1SC
65-0183-000	S-PARTS: AC POWER CORD, UK (BS/PSB), 3P, 3A/250V, L= 1800mm, 3C*0.75mm2, BLACK, PG8B9X3JG0A~05B, RoHS
65-0533-000	S-PARTS: USB 2.0 CABLE, L= 1850mm, C041-370448-A, 28AWG, W/CORE, PANTONE 432C (BLACK), RoHS
65-0184-000	FOAM, EPS, L: 240x225x130mm, 62.5, RoHS
65-0186-000	FOAM, EPS, R: 240x225x130mm, RoHS
65-0534-000	COLOR BOX: 405x252x255, A/F, DM162, RoHS