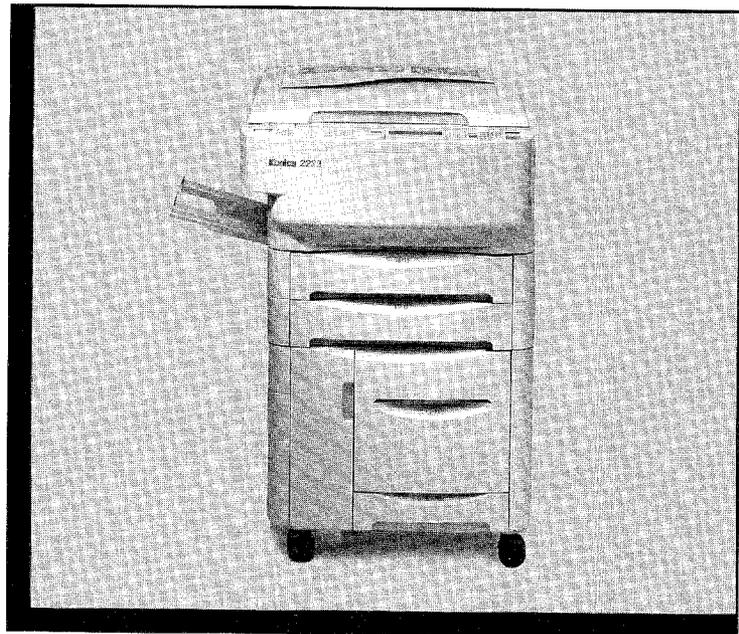




Product: 1997-1998 Konica Model 2223/1216 Printer Service Repair Workshop Manual
File Download: <https://www.arepairmanual.com/downloads/1997-1998-konica-mod-el-2223-1216-printer-service-repair-workshop-manual/>

Model 2223



SERVICE MANUAL

Important Notice

In response to a great number of requests from branch and dealer field technicians, Konica's Corporate publishing Services Department has configured this manual so that a quick reference guide (QRG) can be pulled directly from this book.

Configuring the manual in this way eliminates the need to duplicate the same information in both the service manual and a separate QRG. Once the QRG has been removed, the size of the manual will be significantly reduced allowing it to be stored in a smaller binder. An added benefit is that only one book must be updated when revisions are issued.

The table below outlines the procedure for pulling the QRG.

Section	Remove pages
Front matter	Remove the cover located at the rear of the manual. Note that the table of contents, Revision History, and safety sections have been stapled to the cover.
1	1-1 ~ 1-4
2	2-1 ~2-12
3	3-1
4	All
5	All
6	All

P-6-18
6-13-15
5-2

2223
SERVICE MANUAL

JUNE 1997

IMPORTANT NOTICE

Because of the possible hazards to an inexperienced person servicing this equipment, as well as the risk of damage to the equipment, Konica Business Machines U.S.A., Inc., strongly recommends that all servicing be performed by Konica-trained service technicians only.

Changes may have been made to this equipment to improve its performance after this service manual was printed. Accordingly, Konica Business Machines U.S.A., Inc., makes no representations or warranties, either expressed or implied, that the information contained in this service manual is complete or accurate. It is understood that the user of this manual must assume all risks or personal injury and/or damage to the equipment while servicing the equipment for which this service manual is intended.

Corporate Publications Department

CONTENTS

REVISION HISTORY	vii
SAFETY PRECAUTIONS	ix
SAFETY CIRCUITS	xi
DIFFERENCES BETWEEN 1120 AND 2223	xiii

MAIN BODY

SYSTEM OUTLINE	1-1
PRODUCT CONFIGURATOR	1-2
PRODUCT SPECIFICATIONS	1-3
Type	1-3
Functions	1-3
Copy Paper	1-3
Options	1-3
Particulars of Machine	1-3
Maintenance	1-3
Copy Materials	1-3
Machine Operating Environment	1-3
CENTER-CROSS SECTION	1-5
DRIVE SYSTEM DRAWINGS	1-6
Main/Drum Drive	1-6
Optics Drive	1-7
Lens Unit Drive	1-7
EXTERNAL SECTION	1-8
Construction	1-8
Disassembly and Assembly	1-8
DRIVE SECTION	1-9
Construction	1-9
Mechanism	1-9
Disassembly and Assembly	1-9
Main (M1) Control	1-12
Drum Drive (M6) Control	1-12
OPTICS SECTION	1-13
Construction	1-13
Mechanism	1-13
Disassembly and Assembly	1-14
Optics Drive (M2) Control	1-29
Lens Drive (M3) Control	1-31
Exposure Lamp Control	1-33
AES Control	1-35
APS Control	1-36
Radiation solenoid (SD6) control	1-37
DRUM CARRIAGE UNIT	1-38
Construction	1-38
Mechanism	1-38
Disassembly and Assembly	1-39
CEL Control	1-42
PCL Control	1-44
Separation Claw Control	1-44
CORONA UNIT	1-45
Construction	1-45
Mechanism	1-45
Disassembly and Assembly	1-46
Charging, Transfer/Separation Control	1-47
DEVELOPING SECTION	1-49
Construction	1-49

Mechanism	1-49
Disassembly and Assembly	1-50
Developing Bias Control	1-52
Toner Density Control	1-53
TONER SUPPLY UNIT	1-54
Construction	1-54
Mechanism	1-54
Toner Level Detection Control	1-55
CLEANING UNIT/TONER COLLECTING UNIT	1-56
Construction	1-56
Mechanism	1-56
Disassembly and Assembly	1-56
PAPER FEED SECTION	1-58
Construction	1-58
Mechanism	1-58
Disassembly and Assembly	1-59
Paper Feed Control	1-63
Paper Size Detection Control	1-64
PAPER CONVEYANCE SECTION	1-65
Construction	1-65
Mechanism	1-65
Disassembly and Assembly	1-65
FUSING UNIT	1-67
Construction	1-67
Mechanism	1-67
Disassembly and Assembly	1-68
Fusing Temperature Control	1-75
OTHER CONTROL	1-77
Parts that Remain ON when the Main Switch Is Turned OFF	1-77
Parts that Operate when the Main Switch Is Turned ON	1-77
Operation Panel Control	1-78
Counter Control	1-80
Cooling Fan Control	1-81
Option Control	1-81

DIAGRAMS

ELECTRICAL PARTS LAYOUT DRAWING	2-1
CONNECTOR LAYOUT DRAWING	2-4
OVERALL WIRING DIAGRAM	2-7
2223 OPTION WIRING DIAGRAM	2-12
CONTROL BOARD CIRCUIT DIAGRAM (1/7)	2-13
CONTROL BOARD CIRCUIT DIAGRAM (2/7)	2-14
CONTROL BOARD CIRCUIT DIAGRAM (3/7)	2-15
CONTROL BOARD CIRCUIT DIAGRAM (4/7)	2-16
CONTROL BOARD CIRCUIT DIAGRAM (5/7)	2-17
CONTROL BOARD CIRCUIT DIAGRAM (6/7)	2-18
CONTROL BOARD CIRCUIT DIAGRAM (7/7)	2-19
POWER SUPPLY BOARD CIRCUIT DIAGRAM (1/2)	2-20
POWER SUPPLY BOARD CIRCUIT DIAGRAM (2/2)	2-21
LEFT OPERATION BOARD CIRCUIT DIAGRAM	2-22
RIGHT OPERATION BOARD CIRCUIT DIAGRAM ...	2-23
CHARGE ELIMINATION LED CIRCUIT DIAGRAM ..	2-24
CHARGE CORRECTION CIRCUIT DIAGRAM	2-25
PCL CIRCUIT DIAGRAM	2-25

AES SENSOR CIRCUIT DIAGRAM	2-26	Initial Tray Setting for APS Canceling	6-4
TONER DENSITY SENSOR CIRCUIT DIAGRAM	2-26	Auto Tray Selection	6-4
TIMING CHART		Auto Start Button Function Selection	6-4
TIMING CHART (8.5X11, 1:1, 2 sheets)	3-1	Energy Star initial mode selection	6-4
JAM LISTS		Auto Button Function / Auto Function Setting when an Original is placed in the ADF and ADF is opened.	6-5
JAM LISTS	4-1	Key Counter Operation Specification	6-5
Paper Jams	4-1	Initial Mode Setting	6-5
Alarms	4-5	AMS Mode Priority Setting	6-6
Main Body Abnormality	4-8	User's Bias Shift Selection	6-6
ADJUSTMENT		Mixed Original Function Selection	6-6
HOW TO USE THIS SECTION	5-1	Auto Shut OFF Timer Setting	6-6
ADJUSTMENTS WHEN REPLACING PARTS	5-1	Odd Number of Original Count Mode Selection	6-6
ADJUSTMENTS WITH THE P BUTTON	5-3	Priority of Original / Transfer Sheet Selection	6-7
P Function List	5-3	Whole image selection for bypass and universal tray.	6-7
P Function Operating Procedures	5-3	Master key code setting	6-7
Checking and Resetting the PM Counter	5-3	Internal Heater Setting	6-7
Checking and Resetting the Developing Bias Shift	5-4	LCT Paper Size Selection	6-7
Checking and Resetting the Drum Counter	5-4	Switching the Size Selection/Cassette Selection ...	6-8
Checking the Copy Counter/Total Counter	5-4	Immediate Stop Mode Setting	6-8
Checking the ROM Version	5-4	COPY Quantity Setting Limit Selection	6-8
OTHER ADJUSTMENT	5-5	25 Mode Address Map	6-9
Light Distribution Adjustment	5-5	47 MODE	6-12
Center Adjustment	5-6	Setting the 47 Mode	6-12
Distortion Adjustment	5-6	Checking Separation Claw Clearance	6-12
Focus Adjustment	5-7	Adjusting L Detection (Toner Density)	6-13
LCT Size Selection	5-8	AES Adjustment	6-13
Adjusting ADU gear timing	5-8	Input/Output Check List	6-14
Adjusting nip roller elevating cam timing	5-9	36 MODE	6-17
Adjusting the ADU changeover gate position	5-9	Setting Procedures	6-17
Adjusting paper skew	5-10	Running Test Mode	6-17
VARIOUS LISTS	5-11	Light Intensity Adjustment	6-18
TP	5-11	Lead Edge Timing Adjustment	6-18
Standard Value for Each Part	5-11	Vertical Magnification Adjustment	6-19
DIAGNOSTICS		Horizontal Magnification Adjustment	6-19
25 MODE	6-1	Lead Edge Erasure Width Adjustment	6-20
Setting procedures	6-1	Trailing Edge Erasure Width Adjustment	6-21
Auto start original Selection	6-1	Hp to Original Lead Edge Distance Adjustment ...	6-21
Counter Selection	6-1	SERVICE	
Message Language Selection	6-1	SERVICE SCHEDULE	7-1
Preferential Paper Size Selection	6-1	Service Schedule	7-1
Original turn back selection	6-2	Maintenance Items	7-2
Auto Low power mode Time Setting	6-2	Periodic Check Service Items	7-7
Auto shut OFF mode selection	6-2	COPY MATERIALS	7-11
Auto Start Release Time Selection	6-2	Toner Kit	7-11
ADF Frame Erase Selection	6-2	PM Parts Kit	7-11
PM Cycle Specification	6-2	Maintenance Kit	7-12
Minimum Original Size Detection Selection	6-3	SERVICE MATERIALS	7-13
Sorter Initial Mode Setting	6-3	SPECIAL TOOLS	7-14
Clearing Fusing Failures	6-3	INSTALLATION	
Auto Reset Setting	6-3	INSTALLATION	8-1
Clearing Current Leakage / Main Relay Failure	6-3	Installation requirements	8-1
Double Count Specification for 11x17 Copies	6-3		

Installation space	8-2
Weight	8-2
Accessory parts	8-2
Installation procedure	8-2
How to rest the PM counter	8-6
Toner density adjustment (L detection adjustment)	8-6
How to set the paper tray	8-6

INDEX

INDEX	9-1
-------------	-----

BULLETINS

This page left blank intentionally.

REVISION HISTORY

MODEL 2223

June 1997

At the time of release of this service manual, no **TECHNICAL BULLETINS** have been issued for this model.

The following **SAFETY BULLETINS** have been issued which either apply specifically to this model or address general safety. In addition to the safety bulletins, review the Safety Precautions section of this manual.

<u>BULLETIN #</u>	<u>TITLE</u>	<u>DATE</u>
11	Isopropyl Alcohol	Incorporated 1st edition
14	Sharp Edges (All Models)	Incorporated 1st edition
17A	Policy on Unauthorized Modifications (All Models)	Incorporated 1st edition
45	Installation Environment (All Models)	Incorporated 1st edition

This page left blank intentionally.

SAFETY PRECAUTIONS

Installation Environment

Safety considerations usually are directed toward machine design and the possibility of human error. In addition, the environment in which a machine is operated must not be overlooked as a potential safety hazard.

Most electrical equipment is safe when installed in a normal environment. However, if the environment is different from what most people consider to be normal, it is conceivable that the combination of the machine and the room air could present a hazardous combination. This is because heat (such as from fusing units) and electrical arcs (which can occur inside switches) have the ability to ignite flammable substances, including air.

When installing a machine, check to see if there is anything nearby which suggests that a potential hazard might exist. For example, a laboratory might use organic compounds which, when they evaporate, make the room air volatile. Potentially dangerous conditions might be seen or smelled. *The presence of substances such as cleaners, paint thinners, gasoline, alcohol, solvents, explosives, or similar items should be cause for concern.*

If conditions such as these exist, take appropriate action, such as one of the following suggestions.

- Determine that the environment is controlled (such as through the use of an exhaust hood) so that an offending substance or its fumes cannot reach the machine.
- Remove the offending substance.
- Install the machine in a different location.

The specific remedy will vary from site to site, but the principles remain the same. To avoid the risk of injury or damage, be alert for changes in the environment when performing subsequent service on any machine, and take appropriate action.

Unauthorized Modifications

Konica has gained a reputation for manufacturing reliable products. This has been attained by the combination of outstanding design and knowledgeable service forces.

The design of the equipment is extremely important. It is the design process that determines tolerances and

safety margins for mechanical, electrical, and electronic aspects. It is not reasonable to expect individuals not involved in product engineering to know what effect may be caused by altering any aspect of the machine's design. Such changes have the potential of degrading product performance and reducing safety margins.

For these reasons, *installation of any modification not specifically authorized by Konica Business Machines U.S.A., Inc., is strictly prohibited.*

The following list of prohibited actions is not all-inclusive, but demonstrates the intent of this policy.

- Using an extension cord or any unauthorized power cord adapter.
- Installing any fuse whose rating and physical size differs from that originally installed.
- Using wire, paper clips, solder, etc., to replace or eliminate any fuse (including temperature fuses).
- Removing (except for replacement) any air filter.
- Defeating the operation of relays by any means (such as wedging paper between contacts).
- Causing the machine to operate in a fashion other than as it was designed.
- Making any change which might have a chance of defeating built-in safety features.
- Using any unspecified replacement parts.

General Safety Guidelines

This machine has been examined in accordance with the laws pertaining to various product safety regulations prior to leaving the manufacturing facility to protect the operators and service personnel from injury. However, as with any operating device, components will break down through the wear-and-tear of everyday use, as will additional safety discrepancies be discovered. For this reason, it is important that the technician periodically performs safety checks on the machine to maintain optimum reliability and safety.

The following checks, not all-inclusive, should be made during each service call:

CAUTION: Avoid injury. Ensure that the machine is disconnected from its power source before continuing.

- Look for sharp edges, burrs, and damage on all external covers and the machine frame.
- Inspect all cover hinges for wear (loose or broken).
- Inspect cables for wear, frays, or pinched areas.
- Ensure that the power cord insulation is not damaged (no exposed electrical conductors).
- Ensure that the power cord is properly mounted to the frame by cord clamps.
- Check the continuity from the round lug (GND) of the power cord to the frame of the machine – ensure continuity. An improperly grounded machine can cause an electrically-charged machine frame.

Safeguards During Service Calls

Confirm that all screws, parts, and wiring which are removed during maintenance are installed in their original positions.

- When disconnecting connectors, do not pull the wiring, particularly on AC line wiring and high voltage parts.
- Do not route the power cord where it is likely to be stepped on or crushed.
- Carefully remove all toner and dirt adhering to any electrical units or electrodes.
- After part replacement or repair work, route the wiring in such a way that it does not contact any burrs or sharp edges.
- Do not make any adjustments outside of the specified range.

Applying Isopropyl Alcohol

Care should be exercised when using isopropyl alcohol, due to its flammability. When using alcohol to clean parts, observe the following precautions:

- Remove power from the equipment.
- Use alcohol in small quantities to avoid spillage or puddling. Any spillage should be cleaned up with rags and disposed of properly.
- Be sure that there is adequate ventilation.
- Allow a surface which has been in contact with alcohol to dry for a few minutes to ensure that the alcohol has evaporated completely before applying power or installing covers.

Summary

It is the responsibility of every technician to use professional skills when servicing Konica products. There are no short cuts to high-quality service. Each machine must be thoroughly inspected with respect to safety considerations as part of every routine service call. The operability of the machine, and more importantly, the safety of those who operate or service the machine, are directly dependent upon the conscientious effort of each and every technician.

Remember...when performing service calls, use good judgement (have a watchful eye) to identify safety hazards or potential safety hazards that may be present, and correct these problem areas as they are identified – the safety of those who operate the copier as well as those who service the copier depend on it!

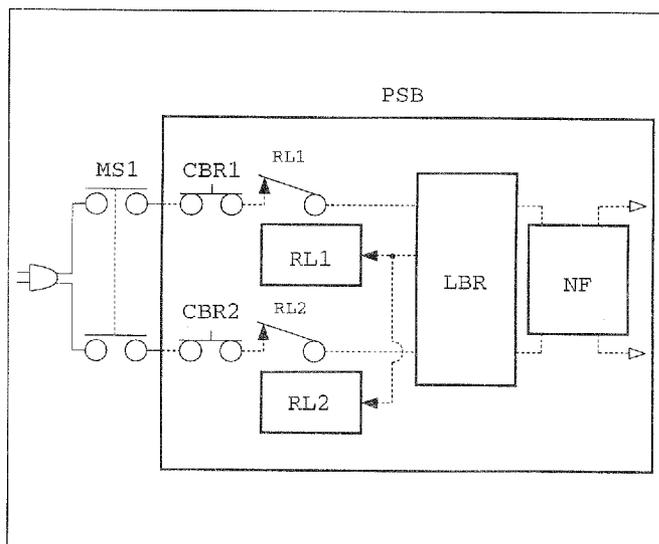
SAFETY CIRCUITS

The electrical circuit of this machine contains the following safety circuits to prevent an accident from occurring in the event of an abnormality.

- [1] Overall safety circuit protector
- [2] Exposure lamp (L1) overheating protection circuit
- [3] Fusing heater lamp (L2) overheating protection circuit

The following explanations are provided to prevent service engineers from unintentionally disabling the safety circuits.

Overall Safety Circuit Protector



1. Protection function provided by circuit breaker (CBR)

This function breaks the AC line instantaneously in the event that there is excessive current flow due to a short between the AC lines.

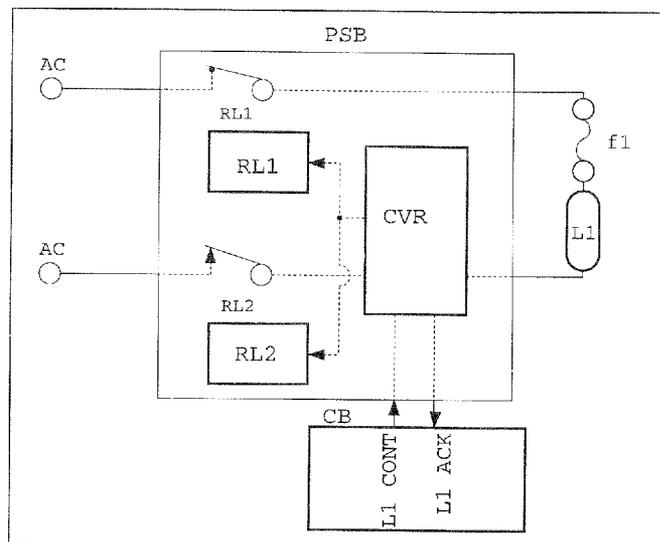
Note: The function of CBR must not be deactivated under any circumstances.

2. Protection function provided by current leakage detecting circuit (LBR)

This function turns the main relays (RL1 and RL2) OFF and breaks the AC line instantaneously in the event that leakage current flows due to a ground short in one side of the AC line.

Note: The function of LBR must not be deactivated under any circumstances.

Exposure Lamp (L1) Overheating Protection Circuit



1. Protection function provided by software

When the L1 CONT signal output from the protection function by software on the control board (CB) becomes [L], L1 lights. Simultaneously, the L1 ACK signal, which indicates that L1 is lit, is output from the CVR on the power supply board (PSB) to the CB.

The CB monitors both the L1 CONT and L1 ACK signals. If they differ from each other, the main relays (RL1 and RL2) will be turned OFF and power to L1 will be cut OFF.

Note: The function of RL1 and RL2 must not be deactivated under any circumstances.

2. Protection function using hardware timer circuit (HT)

If L1 remains lit for more than approximately 15 ± 5 seconds because of some abnormality, the hardware timer on the CVR in the PSB will operate, forcibly cutting off RL1 and RL2.

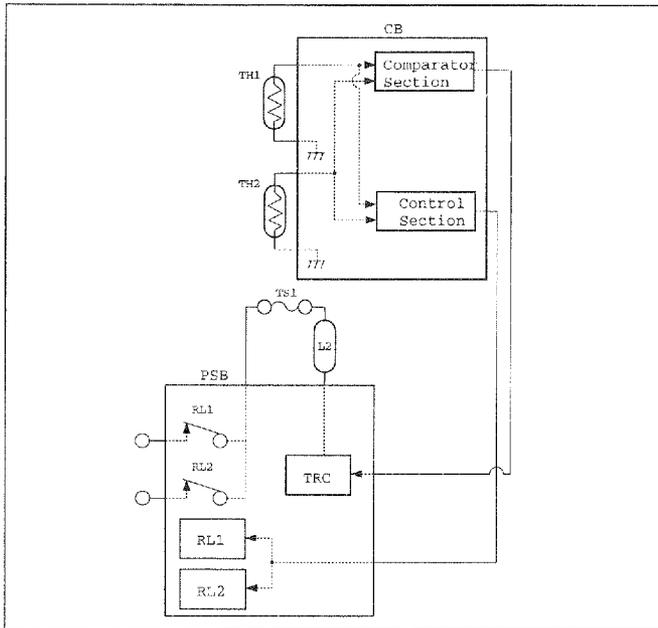
Note: The function of RL1 and RL2 must not be deactivated under any circumstances.

3. Protection function using optics temperature fuse (f1)

If the temperature in the vicinity of f1 rises above 336°F, f1 will blow, cutting off the flow of current to L1.

Note: Do not use a piece of wire in place of f1 under any circumstances.

Fusing Heater Lamp (L2) Overheating Protection Circuit



1. Protection function provided by software

This function turns OFF fusing heater lamp (L2), the main relays (RL1, and RL2) in the event that the output voltage from fusing temperature sensor 1 (TH1), read by the control board (CB), is abnormal.

Note: Periodically check the surfaces of TH1 and TH2 that contact the roller and replace them if they are abnormal. The function of RL1 and RL2 must not be deactivated under any circumstances.

2. Protection function provided by hardware

This function uses a comparator circuit which compares the output voltage of TH1 and fusing temperature sensor 2 (TH2) with the abnormal judgment reference value. It disconnects L2, RL1, and RL2 from the circuit in the event that the output voltage of TH1 or TH2 exceeds the reference value.

Note: Check the surfaces of TH1 and TH2 that contact the roller periodically and replace them if they are abnormal. The function of RL1 and RL2 must not be deactivated under any circumstances.

3. Protection function using thermostat (TS1)

If the surface temperature of the upper fusing roller exceeds a specified value, TS1 will blow, directly cutting off the flow of current to L2.

Note: Do not use a piece of wire in place of TS1 under any circumstances.

DIFFERENCES BETWEEN 1120 AND 2223

This machine has been designed based on the Konica 1120 machine. The main differences between the Konica 1120 and the Konica 2223 are listed below.

Product Specifications

Type	1120	2223	Reasons
Specifications	1. Copy speed 20 sheets 8.5x11 11 sheets 11x17	23 sheets 8.5x11 12 sheets 11x17	CPM change
	2. First copy time 6.5 seconds 8.5x11	5.8 seconds 8.5x11	CPM change
	3. Photograph mode Not used	Used	To improve function
	4. Energy conservation Pre-heat mode	Power save mode	To respond to Energy Star
	5. Binding margin shift Life-size only	Life-size and reduction	To improve function
	6. Platen auto start Not used	Used	To improve function
	7. Options (1) ADF DF-204 (2) Sorter ST-102, ST-210 (3) Drawer base unit DB-205A (two PFU) DB-205B (three PFU) (4) Stand	DF-204, DF-308 ST-103, ST-104, ST-216 DB-307 (LCT+PFU+ADU) DB-607 (LCT+PFU) DB-107 (ADU) Stand	To fill up options
	8. Maintenance Maintenance: Every 30,000 copies	Every 45,000 copies	To improve serviceability CMP change
	9. Copy materials Drum: Common with 1015 Developer: Exclusively for 1120 Toner: Exclusively for 1120	Common with 1015, 1120 Exclusively for 2223 Exclusively for 2223	CMP change

Mechanism

Type	1120	2223	Reasons
Operation section	1. Operation panel LED indication	LCD panel	To improve operationability
Drive section	1. Drive method Whole main motor drive	Separated driving into main motor and drum motor	Adoption of drum drive motor to improve material durability and stability
Optics section	1. Optics mirrors (1st to 4th mirrors) Sensitization mirror	hypersensitization mirror	To improve function
	2. Inside cooling Exhaust cooling by cooling fan	Exhaust cooling by radiation shutter and cooling fan	
Drum unit section	Auxiliary separation Separation claws: 3	Separation claws: 5	To improve separation performance
Fusing section	1. Cleaning roller Driven by upper fusing roller	Independent driven cleaning roller	To improve cleaning performance
	2. Sensor cleaning blade Material: Heat resisting rubber	Material:PFA resin	To respond to market technology

Electrical Control

Type	1120	2223	Reasons
Drive section	1. Drum drive Common drive to paper feed/ developing/fusing	Newly added exclusive drum developing drive motor	To improve developer and drum durability
Optics section	1. Optics motor DC brushless motor	DC pulse motor	To improve image quality To simplify control circuit
	2. Optics brake PS/optics overrun PS Used	Not used	By pulse motor adoption
	3. Main body cooling fan	Exclusive	To improve performance
	4. Radiation solenoid Not used	Newly added	To prevent machine inside temperature from rising
Operation section	1. Operation board	Exclusive (Right board/left board)	To respond to functional expansion
Paper feed section	1. Resist solenoid	Exclusive	To improve performance
Drum carriage unit	1. PCL board	Exclusive	To respond to higher CPM
	2. Charge correction board	Exclusive	To respond to photograph mode
Fusing section	1. Fusing sensor 1	Exclusive	To improve performance

Electrical Control (continued)

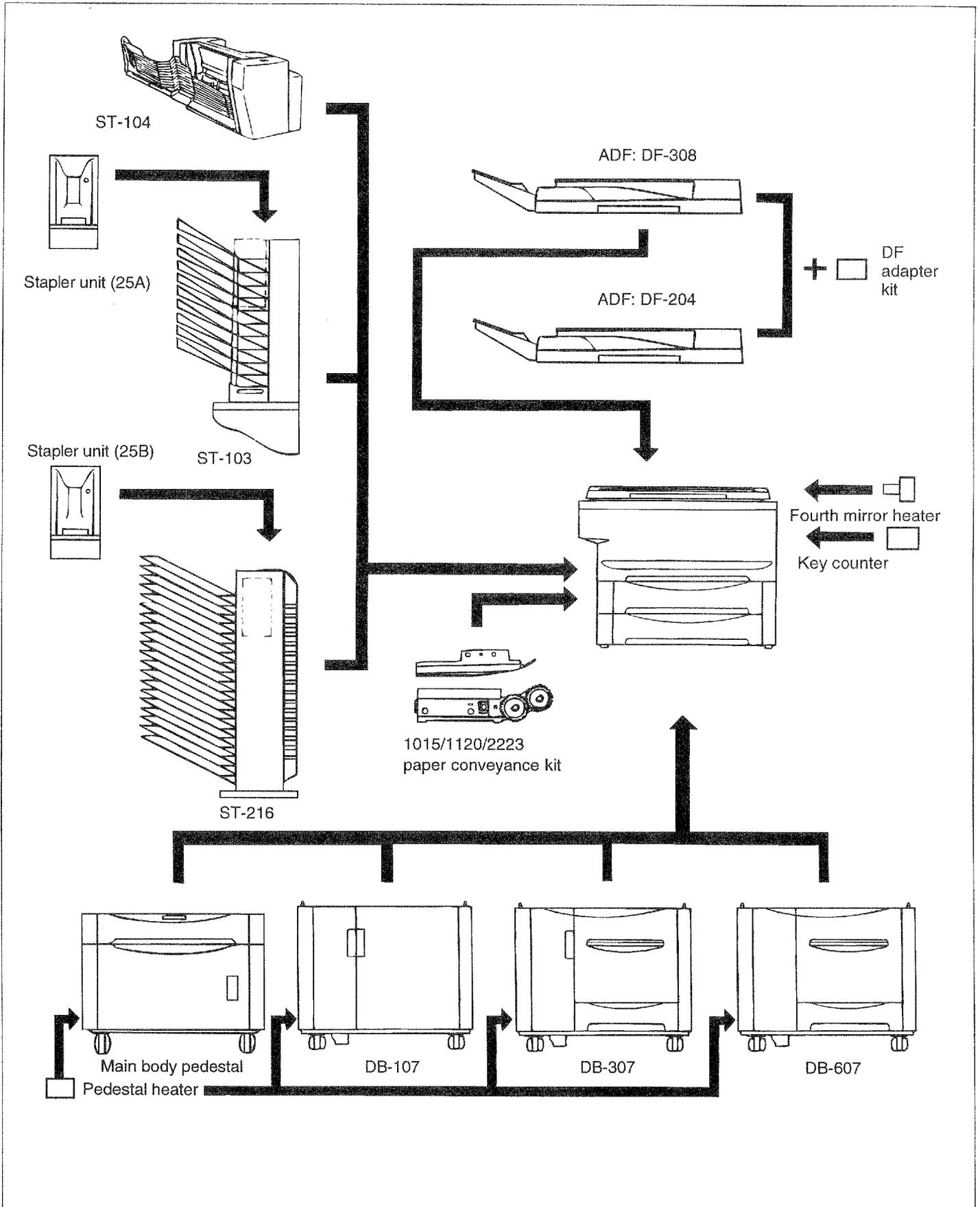
Others	1. High voltage power supply	Exclusive	To respond to higher CPM
	2. Power supply board	Exclusive	To respond to higher CPM and functional expansion (ADU)
	3. Control board	Exclusive	To respond to higher CPM To respond to functional expansion
	4. ROM1/ROM2	Exclusive	To respond to higher CPM To respond to functional expansion

This page left blank intentionally.

Replace this page with the
tab divider printed:

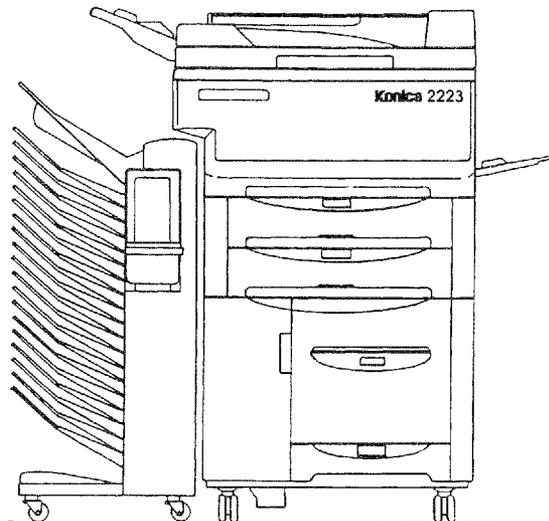
MAIN BODY

SYSTEM OUTLINE



Machine and Accessories

Item Description	Item Number
2223 Copier	947-220
ADF (DF-204)	947-116
ADF Kit (DF-204)	947-120
RADF (DF-308M)	947-219
Drawer Base w/ ADU (DB-107)	947-221
Drawer Base w/ LCT & PFU (DB-607)	947-222
Drawer Base w/ LCT & PFU & ADU (DB-307)	947-223
Plain Base	947-142
Sorter Mounting Kit (ST-216)*	947-224
10 Bin Sorter (ST-103)	947-145
Staple Kit (ST-103)	947-356
10 Bin Stapler Sorter (ST-104)	947-147
20 Bin Sorter (ST-216)	947-491
Staple Kit (ST-216)	947-369
Weekly Timer (WT-102)	947-535
User's Manual*	Part Number OP-02-2223



Key Counter

Type	Service Parts		Item No.
	Receptacle	Holder	
Standard	Part No. U021-0020	Part No. 006011960	944-907
Xerox Compatible	U050-0120	Not Required	943-102

Supplies

Item Description	Item Number
Toner	947-225
Developer	947-226
Drum*	947-124
Cleaning Roller	947-218
Staples (ST-104)	947-139
Staples ST-103 / 216	947-381

Power Requirements: 115VAC 4.2A 60Hz

* Sorter Mounting Kit required when using ST-216 Sorter with Plain base

PM Kit Item Number 947-434

<i>(All maintenance items are supplied with unit)</i>	
Cleaning Blade	Optics Filter
Cleaning Web	Toner Filter
Charging Wire	Discharge Wire
Charging Control Plate	Dust Bag

PRODUCT SPECIFICATIONS

Type

Type: Desk top type
Copying method: Indirect static method
Original table system: Fixed type
Photo sensitivity material: OPC
Sensitive method: Direct irradiation method
Paper feeding method: Two stacked trays (250 sheetsx2, 20 lb.)
 Multi bypass feed (50 sheets, 20 lb.)
 DB-307 (1000 sheets/LCT+250sheets/PFU, 20 lb.)
 (Option)
 DB-607 (1000 sheets/LCT+250 sheets/PFU, 20 lb.)
 (Option)

Functions

Kinds of originals: Sheets, books, solids
Original size: 11x17 maximum
Copy size: 11x17-5.5x8.5
Magnification
Fixed magnification: x1.00, x0.71, x0.82, x0.86, x1.15, x1.22, x1.41
Special ratio magnification: 1mode
Zoom magnification: x50% to x200% (1% step)
Warmup time: Approx. 65 sec. (68°F, rated voltage)
First copy time:

	Unit:seconds	
Size	8.5x11	
Manual/AES mode	5.8	

Continuous copy speed:

	Unit: copy/minute at life size	
Size	8.5x11	11x17
Copying speed	23	12

Continuous copies: 1 to 99
Special functions: Auto reset
 Auto shut off
 Book copy
 Image shift/ reduction shift
 Frame erase/fold erase
 OHP interleave
 Photograph mode
 Auto copy
 Pre-heat function

Copy Paper

Ordinary paper: High quality paper (16 lb. to 24 lb.)
Special paper: Transparencies (specified)
 Labels
 Blue print master to be deleted
 High quality paper (13 lb. to 16 lb.)
 High quality paper (24 lb. to 35 lb.)

Cautions:

When using special papers:
 • Do not use two-sided copying.
 • Always feed them using the multi bypass feed tray.
 (The feed, conveyance, and copy image performance of special papers may sometimes be inferior to that of ordinary paper (16 lb. to 24 lb.).)

Options

ADF: DF-204, DF-308
 Sorter: ST-103, ST-104, ST-216
 Stapler unit: 25A, 25B
 Stand
 Drawer base unit: DB-307 (ADU+LCT+PFU)
 DB-107 (ADU)
 DB-607 (LCT+PFU)
 1015/1120/2223 paper conveyance kit (for necessary sorter)
 DF Adapter kit (for necessary DF-204 and DF-308)
 Key counter kit
 Fourth mirror heater
 Pedestal heater

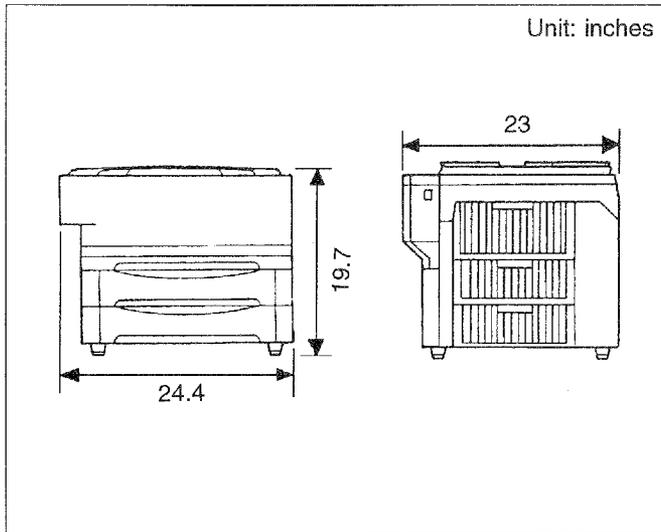
Specifications

Power requirements: 120 VAC +/- 10%, 20 A, 60 Hz +/- 2.5Hz

Power consumption: 1.3 kW

Weight: Approximately 110 lb.

Machine dimensions



Maintenance

Maintenance: Every 45,000 copies

Copy Materials

Drum: OPC drum (f60)
Common with Konica 1015,1120

Developer: Exclusive for 2223

Toner: Exclusive for 2223

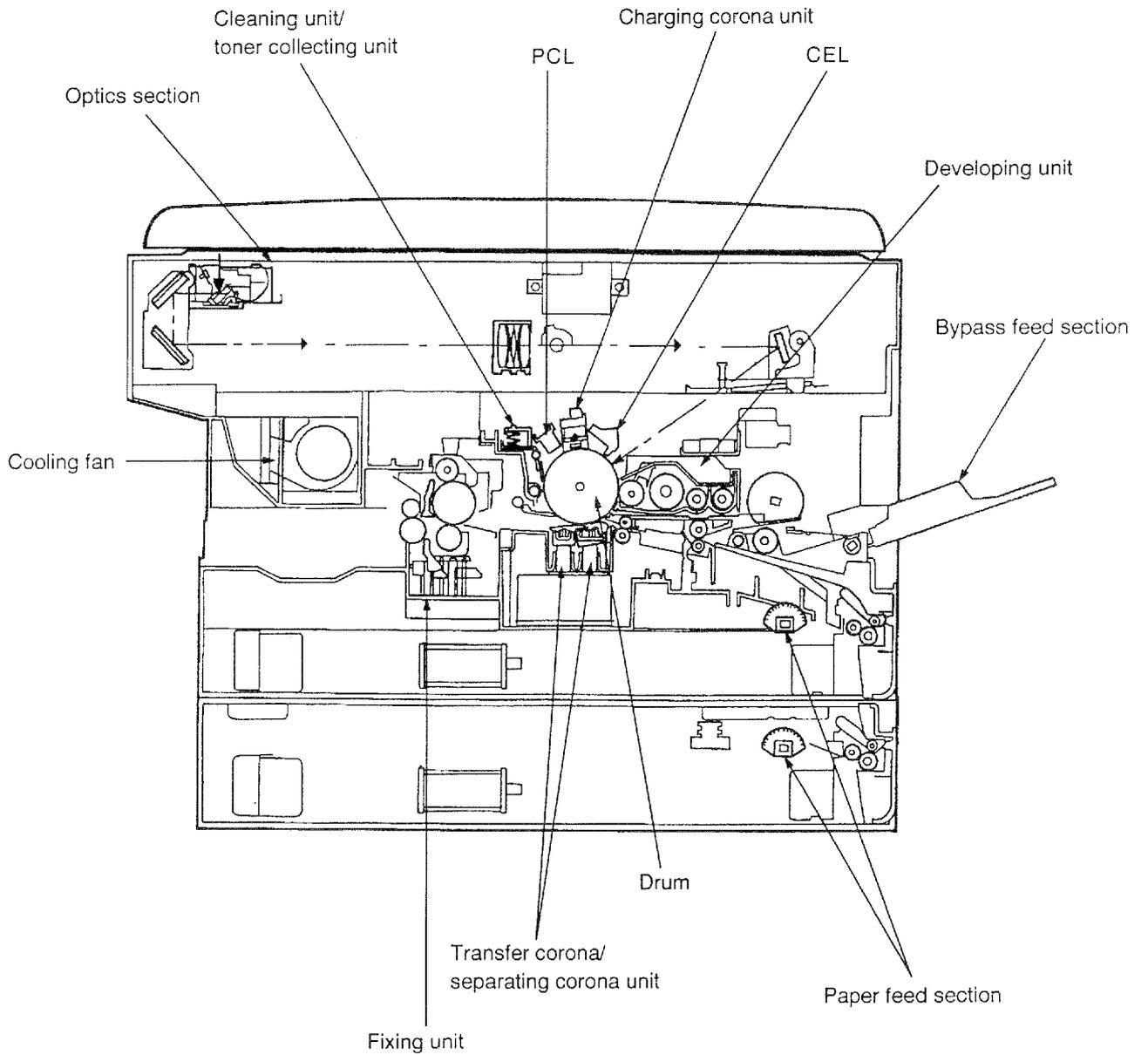
Machine Operating Environment

Temperature: 50°F to 91°F

Humidity: 10% to 80% RH

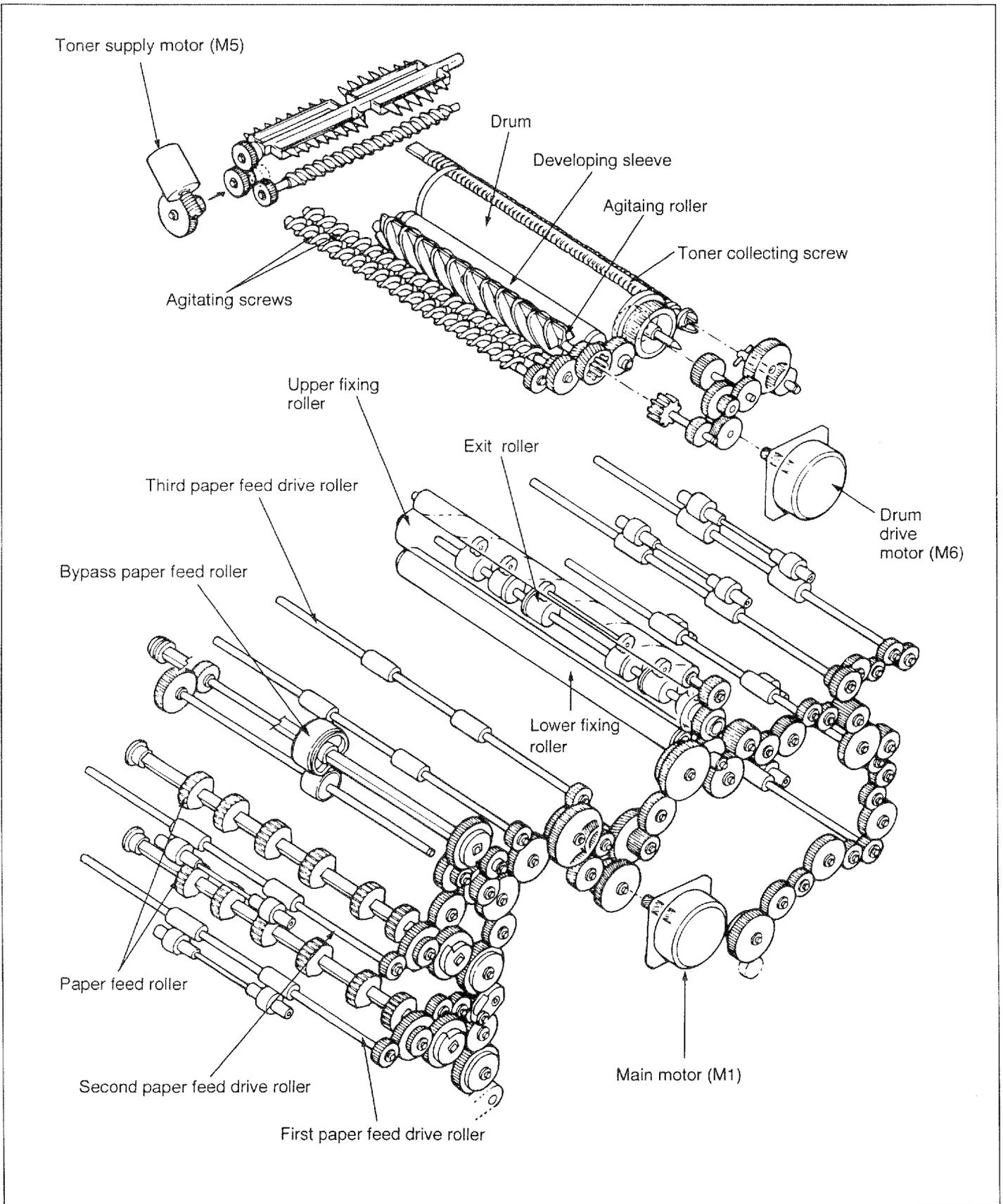
Note: These specifications are subject to change without notice.

CENTER-CROSS SECTION

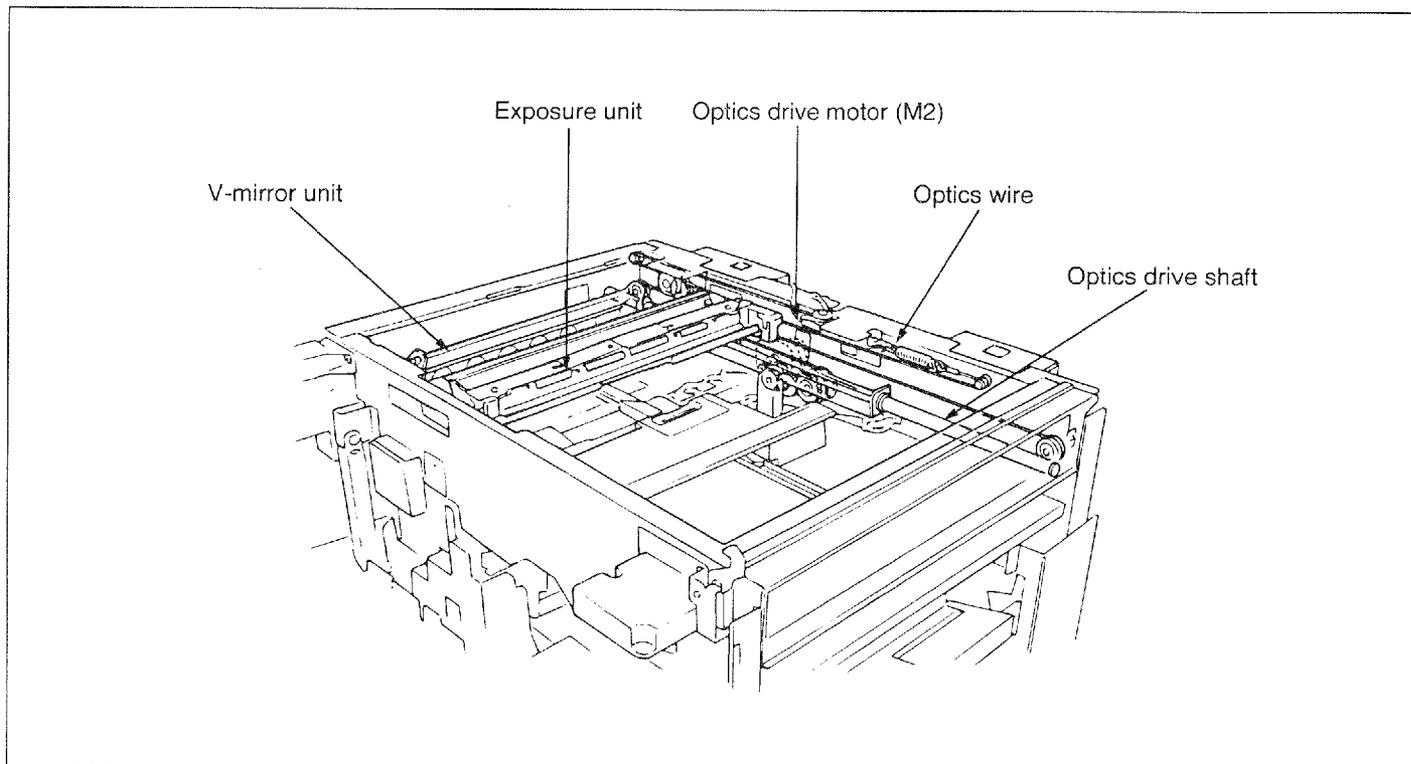


DRIVE SYSTEM DRAWINGS

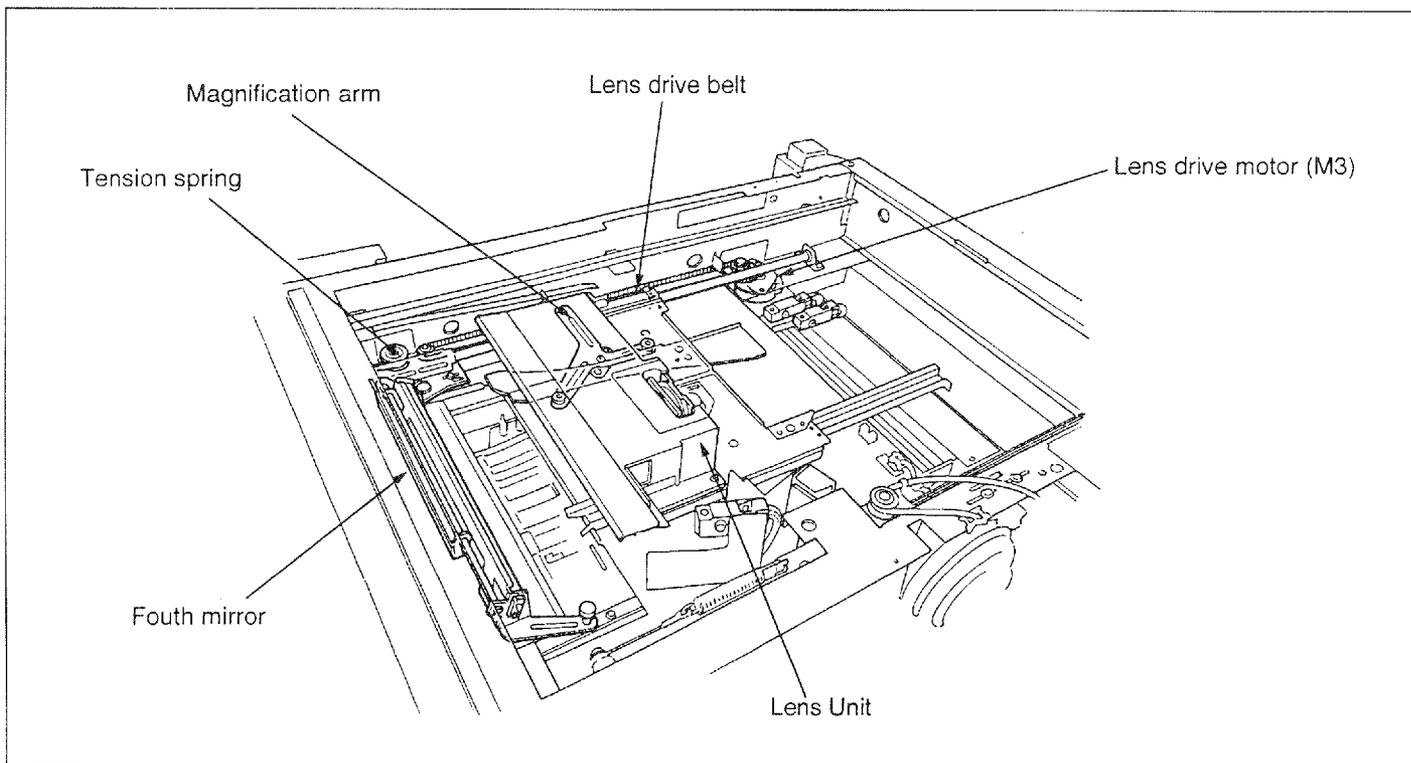
Main/Drum Drive



Optics Drive

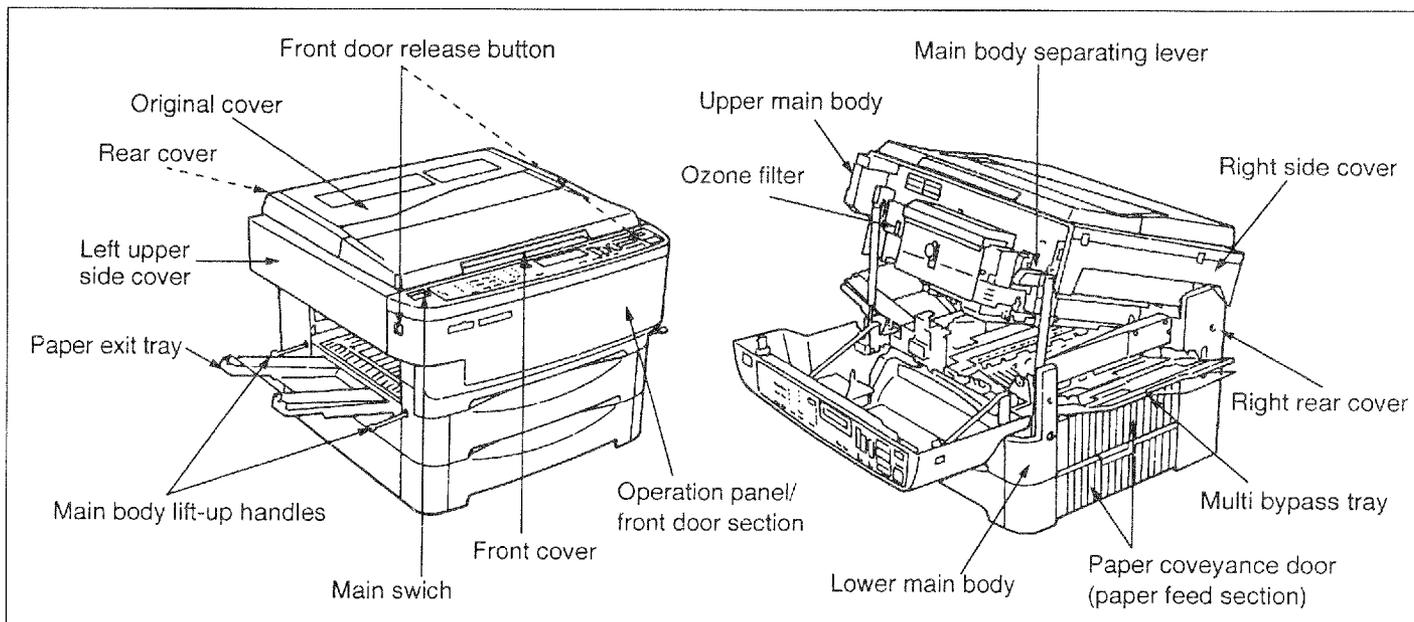


Lens Unit Drive



EXTERNAL SECTION

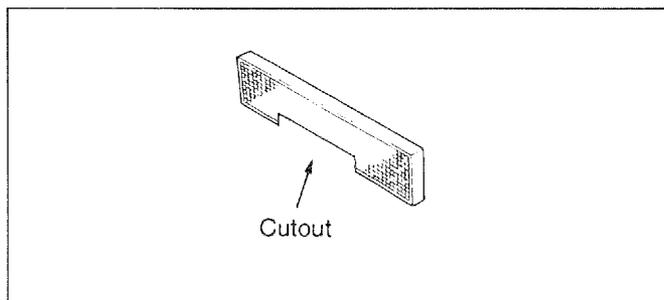
Construction



Disassembly and Assembly

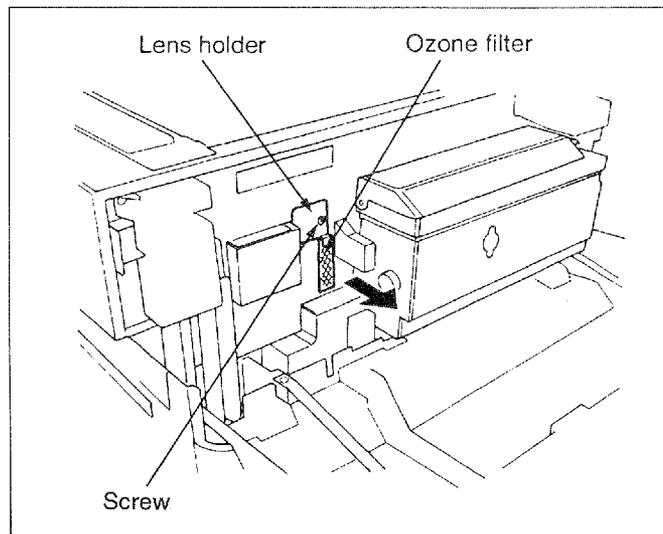
Replacing the ozone filter

Caution: Reinstall the ozone filter, securely with its cutout down.



Procedure

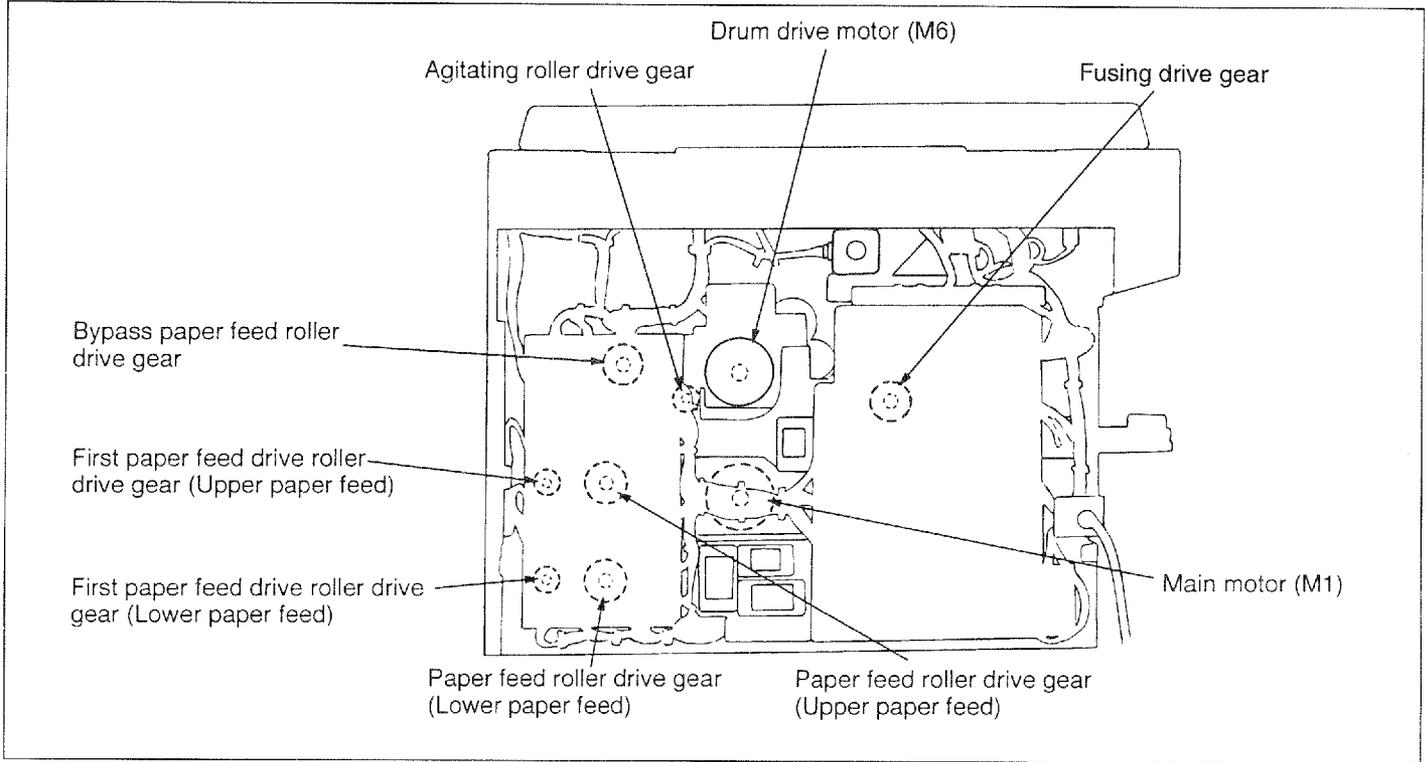
- (1) Press the left and right front door release buttons to open the front door.
- (2) Remove the screw, then remove the lens holder.
- (3) Pull the ozone filter toward you.



- (4) Reinstall the parts by reversing the procedure described above.

DRIVE SECTION

Construction



Mechanism

Mechanism	Method
Main motor	Brushless DC motor, outer rotor type
Drum drive motor	Brushless DC motor, outer rotor type
Developing drive	Gear train
Toner collection drive	Gear train
Fixing and paper exit drive	Gear train
Paper feed drive	Gear train

Disassembly and Assembly

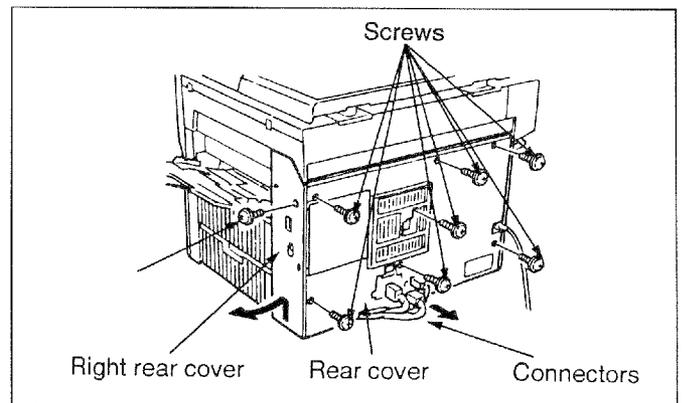
Removing/reinstalling the main motor/drum drive motor

Caution:

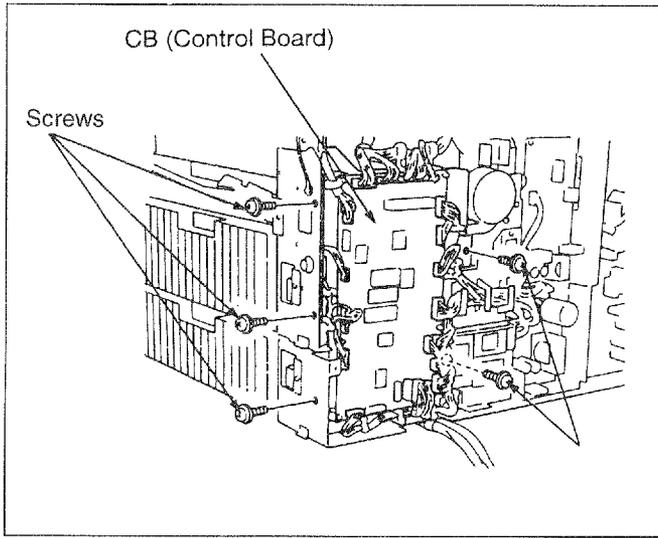
- (1) Turn the power source OFF when working on the driving sections.
- (2) Make sure that all connectors are secure on the control board.

Procedures

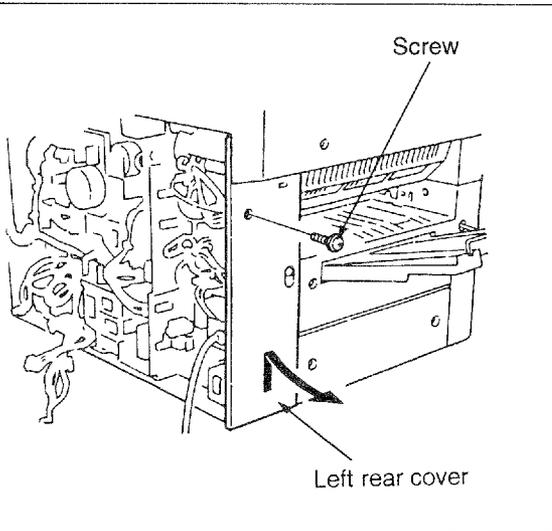
- (1) Disconnect the connectors for ADF, sorter, LCT, ADU, etc.
- (2) Remove the rear cover after removing the 7 screws.
- (3) Remove the screw, then remove the right rear cover by pulling its lower end toward you.



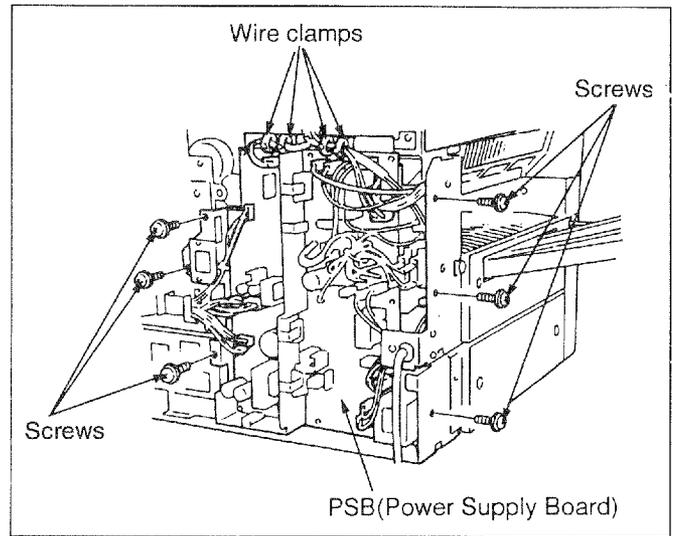
- (4) Disconnect all connectors from the control board (CB).
- (5) Remove the wire from the wire clamping plates (11 pieces).
- (6) Remove the five screws, then remove the CB.



- (7) Remove the screw, release the tab of the left rear cover from the frame, then remove the left rear cover downward.



- (8) Disconnect all connectors from the power supply board (PSB).
- (9) Remove the wires connected to the PSB from the seven wire clamps.
- (10) Remove the six set screws, then remove the PSB.



- (11) Disconnect the connector from the main motor board.

