

Product: 2005 Konica Minolta bizhub 162/210, Fax Kit (FK-505),DF-502,DF-605,AD
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KONICA MINOLTA

SERVICE MANUAL

FIELD SERVICE

bizhub 162

bizhub 210

Sample of manual. Download All 660 pages at:

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2005.04

KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. Ver. 1.0

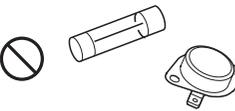
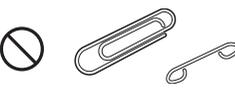
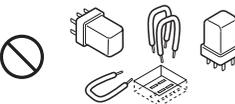
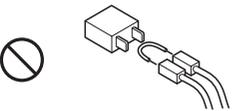
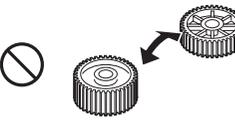
SAFETY WARNINGS

[1] MODIFICATIONS NOT AUTHORIZED BY KONICA MINOLTA BUSINESS TECHNOLOGIES, INC.

KONICA MINOLTA brand products are renowned for their high reliability. This reliability is achieved through high-quality design and a solid service network. Product design is a highly complicated and delicate process where numerous mechanical, physical, and electrical aspects have to be taken into consideration, with the aim of arriving at proper tolerances and safety factors. For this reason, unauthorized modifications involve a high risk of degradation in performance and safety. Such modifications are therefore strictly prohibited. The points listed below are not exhaustive, but they illustrate the reasoning behind this policy.

Prohibited Actions

⚠ DANGER

<ul style="list-style-type: none"> Using any cables or power cord not specified by KMBT. 	
<ul style="list-style-type: none"> Using any fuse or thermostat not specified by KMBT. Safety will not be assured, leading to a risk of fire and injury. 	
<ul style="list-style-type: none"> Disabling fuse functions or bridging fuse terminals with wire, metal clips, solder or similar object. 	
<ul style="list-style-type: none"> Disabling relay functions (such as wedging paper between relay contacts) 	
<ul style="list-style-type: none"> Disabling safety functions (interlocks, safety circuits, etc.) Safety will not be assured, leading to a risk of fire and injury. 	
<ul style="list-style-type: none"> Making any modification to the product unless instructed by KMBT 	
<ul style="list-style-type: none"> Using parts not specified by KMBT 	

[2] POWER PLUG SELECTION

In some countries or areas, the power plug provided with the product may not fit wall outlet used in the area. In that case, it is obligation of customer engineer (hereafter called the CE) to attach appropriate power plug or power cord set in order to connect the product to the supply.

Power Cord Set or Power Plug

WARNING

- Use power supply cord set which meets the following criteria:
 - provided with a plug having configuration intended for the connection to wall outlet appropriate for the product's rated voltage and current, and
 - the plug has pin/terminal(s) for grounding, and
 - provided with three-conductor cable having enough current capacity, and
 - the cord set meets regulatory requirements for the area.

Use of inadequate cord set leads to fire or electric shock.
- Attach power plug which meets the following criteria:
 - having configuration intended for the connection to wall outlet appropriate for the product's rated voltage and current, and
 - the plug has pin/terminal(s) for grounding, and
 - meets regulatory requirements for the area.

Use of inadequate cord set leads to the product connecting to inadequate power supply (voltage, current capacity, grounding), and may result in fire or electric shock.
- Conductors in the power cable must be connected to terminals of the plug according to the following order:
 - Black or Brown: L (line)
 - White or Light Blue: N (neutral)
 - Green/Yellow: PE (earth)

Wrong connection may cancel safeguards within the product, and results in fire or electric shock.



[3] CHECKPOINTS WHEN PERFORMING ON-SITE SERVICE

KONICA MINOLTA brand products are extensively tested before shipping, to ensure that all applicable safety standards are met, in order to protect the customer and customer engineer (hereafter called the CE) from the risk of injury. However, in daily use, any electrical equipment may be subject to parts wear and eventual failure. In order to maintain safety and reliability, the CE must perform regular safety checks.

1. Power Supply

Connection to Power Supply

WARNING

- Check that mains voltage is as specified.

Connection to wrong voltage supply may result in fire or electric shock.



- Connect power plug directly into wall outlet having same configuration as the plug.

Use of an adapter leads to the product connecting to inadequate power supply (voltage, current capacity, grounding), and may result in fire or electric shock.

If proper wall outlet is not available, advice the customer to contact qualified electrician for the installation.



- Plug the power cord into the dedicated wall outlet with a capacity greater than the maximum power consumption.

If excessive current flows in the wall outlet, fire may result.



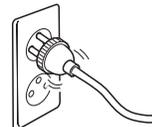
- If two or more power cords can be plugged into the wall outlet, the total load must not exceed the rating of the wall outlet.

If excessive current flows in the wall outlet, fire may result.



- Make sure the power cord is plugged in the wall outlet securely.

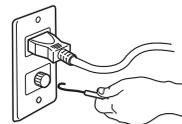
Contact problems may lead to increased resistance, overheating, and the risk of fire.



- Check whether the product is grounded properly.

If current leakage occurs in an ungrounded product, you may suffer electric shock while operating the product.

Connect power plug to grounded wall outlet.



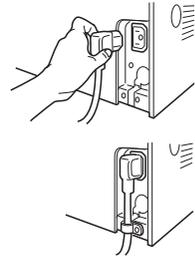
Power Plug and Cord

WARNING

- When using the power cord set (inlet type) that came with this product, make sure the connector is securely inserted in the inlet of the product.

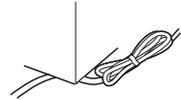
When securing measure is provided, secure the cord with the fixture properly.

If the power cord (inlet type) is not connected to the product securely, a contact problem may lead to increased resistance, overheating, and risk of fire.



- Check whether the power cord is not stepped on or pinched by a table and so on.

Overheating may occur there, leading to a risk of fire.



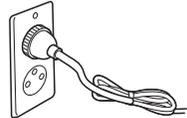
- Check whether the power cord is damaged. Check whether the sheath is damaged.

If the power plug, cord, or sheath is damaged, replace with a new power cord (with plug and connector on each end) specified by KMBT. Using the damaged power cord may result in fire or electric shock.



- Do not bundle or tie the power cord.

Overheating may occur there, leading to a risk of fire.



- Check whether dust is collected around the power plug and wall outlet.

Using the power plug and wall outlet without removing dust may result in fire.



- Do not insert the power plug into the wall outlet with a wet hand.

The risk of electric shock exists.



- When unplugging the power cord, grasp the plug, not the cable.

The cable may be broken, leading to a risk of fire and electric shock.

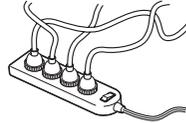


Wiring

WARNING

- Never use multi-plug adapters to plug multiple power cords in the same outlet.

If used, the risk of fire exists.



- When an extension cord is required, use a specified one. Current that can flow in the extension cord is limited, so using a too long extension cord may result in fire.

Do not use an extension cable reel with the cable taken up. Fire may result.



2. Installation Requirements

Prohibited Installation Places

WARNING

- Do not place the product near flammable materials or volatile materials that may catch fire.

A risk of fire exists.



- Do not place the product in a place exposed to water such as rain.

A risk of fire and electric shock exists.

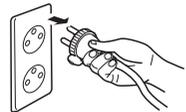


When not Using the Product for a long time

WARNING

- When the product is not used over an extended period of time (holidays, etc.), switch it off and unplug the power cord.

Dust collected around the power plug and outlet may cause fire.



Ventilation

⚠ CAUTION

- The product generates ozone gas during operation, but it will not be harmful to the human body.

If a bad smell of ozone is present in the following cases, ventilate the room.

- When the product is used in a poorly ventilated room
- When taking a lot of copies
- When using multiple products at the same time



Stability

⚠ CAUTION

- Be sure to lock the caster stoppers.

In the case of an earthquake and so on, the product may slide, leading to a injury.



Inspection before Servicing

⚠ CAUTION

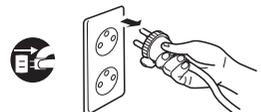
- Before conducting an inspection, read all relevant documentation (service manual, technical notices, etc.) and proceed with the inspection following the prescribed procedure, using only the prescribed tools. Do not make any adjustment not described in the documentation.

If the prescribed procedure or tool is not used, the product may break and a risk of injury or fire exists.



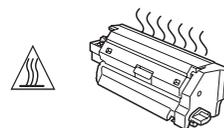
- Before conducting an inspection, be sure to disconnect the power plugs from the product and options.

When the power plug is inserted in the wall outlet, some units are still powered even if the POWER switch is turned OFF. A risk of electric shock exists.



- The area around the fixing unit is hot.

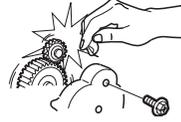
You may get burnt.



Work Performed with the Product Powered On

WARNING

- Take every care when making adjustments or performing an operation check with the product powered.
If you make adjustments or perform an operation check with the external cover detached, you may touch live or high-voltage parts or you may be caught in moving gears or the timing belt, leading to a risk of injury.
- Take every care when servicing with the external cover detached.
High-voltage exists around the drum unit. A risk of electric shock exists.



Safety Checkpoints

WARNING

- Check the exterior and frame for edges, burrs, and other damage.
The user or CE may be injured.
- Do not allow any metal parts such as clips, staples, and screws to fall into the product.
They can short internal circuits and cause electric shock or fire.
- Check wiring for squeezing and any other damage.
Current can leak, leading to a risk of electric shock or fire.
- Carefully remove all toner remnants and dust from electrical parts and electrode units such as a charging corona unit.
Current can leak, leading to a risk of product trouble or fire.
- Check high-voltage cables and sheaths for any damage.
Current can leak, leading to a risk of electric shock or fire.



Safety Checkpoints

WARNING

- Check electrode units such as a charging corona unit for deterioration and sign of leakage.

Current can leak, leading to a risk of trouble or fire.



- Before disassembling or adjusting the write unit (P/H unit) incorporating a laser, make sure that the power cord has been disconnected.

The laser light can enter your eye, leading to a risk of loss of eyesight.



- Do not remove the cover of the write unit. Do not supply power with the write unit shifted from the specified mounting position.

The laser light can enter your eye, leading to a risk of loss of eyesight.



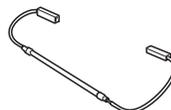
- When replacing a lithium battery, replace it with a new lithium battery specified in the Parts Guide Manual. Dispose of the used lithium battery using the method specified by local authority.

Improper replacement can cause explosion.



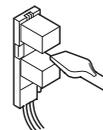
- After replacing a part to which AC voltage is applied (e.g., optical lamp and fixing lamp), be sure to check the installation state.

A risk of fire exists.



- Check the interlock switch and actuator for loosening and check whether the interlock functions properly.

If the interlock does not function, you may receive an electric shock or be injured when you insert your hand in the product (e.g., for clearing paper jam).



- Make sure the wiring cannot come into contact with sharp edges, burrs, or other pointed parts.

Current can leak, leading to a risk of electric shock or fire.



Safety Checkpoints

WARNING

- Make sure that all screws, components, wiring, connectors, etc. that were removed for safety check and maintenance have been reinstalled in the original location. (Pay special attention to forgotten connectors, pinched cables, forgotten screws, etc.)



× pcs?



A risk of product trouble, electric shock, and fire exists.

Handling of Consumables

WARNING

- Toner and developer are not harmful substances, but care must be taken not to breathe excessive amounts or let the substances come into contact with eyes, etc. It may be stimulative.

If the substances get in the eye, rinse with plenty of water immediately. When symptoms are noticeable, consult a physician.



- Never throw the used cartridge and toner into fire.
You may be burned due to dust explosion.



Handling of Service Materials

CAUTION

- Unplug the power cord from the wall outlet.

Drum cleaner (isopropyl alcohol) and roller cleaner (acetone-based) are highly flammable and must be handled with care. A risk of fire exists.



- Do not replace the cover or turn the product ON before any solvent remnants on the cleaned parts have fully evaporated.

A risk of fire exists.



Handling of Service Materials

CAUTION

- Use only a small amount of cleaner at a time and take care not to spill any liquid. If this happens, immediately wipe it off.

A risk of fire exists.



- When using any solvent, ventilate the room well.
Breathing large quantities of organic solvents can lead to discomfort.



[4] Laser Safety

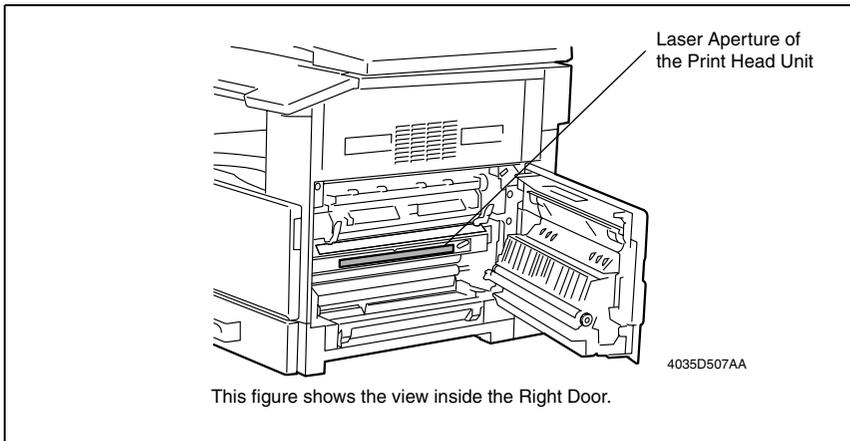
- This is a digital machine certified as a Class 1 laser product. There is no possibility of danger from a laser, provided the machine is serviced according to the instruction in this manual.

4.1 Internal Laser Radiation

semiconductor laser	
Maximum power of the laser diode	5 mW
Maximum average radiation power (*)	6.32 μ W
Wavelength	770-795 nm

*at laser aperture of the Print Head Unit

- This product employs a Class 3b laser diode that emits an invisible laser beam. The laser diode and the scanning polygon mirror are incorporated in the print head unit.
- The print head unit is NOT A FIELD SERVICEABLE ITEM. Therefore, the print head unit should not be opened under any circumstances.



**U.S.A., Canada
(CDRH Regulation)**

- This machine is certified as a Class 1 Laser product under Radiation Performance Standard according to the Food, Drug and Cosmetic Act of 1990. Compliance is mandatory for Laser products marketed in the United States and is reported to the Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration of the U.S. Department of Health and Human Services (DHHS). This means that the device does not produce hazardous laser radiation.
- The label shown on page S-16 indicates compliance with the CDRH regulations and must be attached to laser products marketed in the United States.

CAUTION

- **Use of controls, adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.**

semiconductor laser	
Maximum power of the laser diode	5 mW
Wavelength	770-795 nm

All Areas

CAUTION

- **Use of controls, adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.**

semiconductor laser	
Maximum power of the laser diode	5 mW
Wavelength	770-795 nm

Denmark

ADVARSEL

- **Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. Klasse 1 laser produkt der opfylder IEC60825-1 sikkerheds kravene.**

halvlederlaser	
Laserdiodens højeste styrke	5 mW
bølgelængden	770-795 nm

Finland, Sweden

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT
VAROITUS!

- Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle laser säteilylle.

puolijohdelaser	
Laserdiodin suurin teho	5 mW
aallonpituus	770-795 nm

WARNING!

- Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

halvledarlasar	
Den maximala effekten för laserdioden	5 mW
våglängden	770-795 nm

VARO!

- Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle laser säteilylle. Älä katso säteeseen.

WARNING!

- Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

Norway

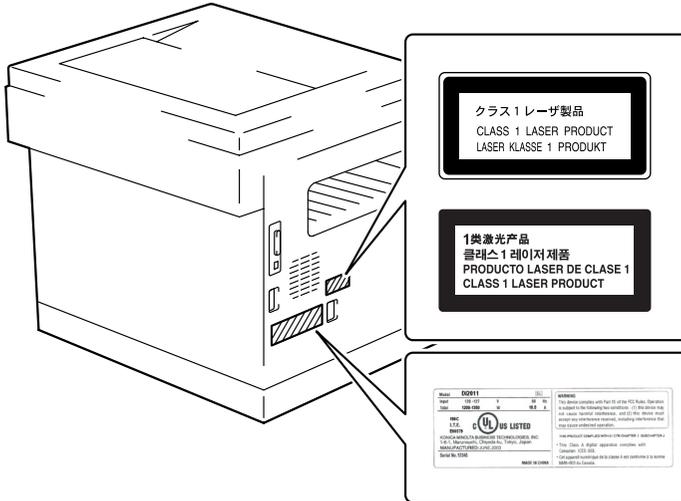
ADVERSEL

- Dersom apparatet brukes på annen måte enn spesifisert i denne bruksanvisning, kan brukeren utsettes for usynlig laserstrålning, som overskrider grensen for laser klass 1.

halvleder laser	
Maksimal effekt till laserdioden	5 mW
bølgelengde	770-795 nm

4.2 Laser Safety Label

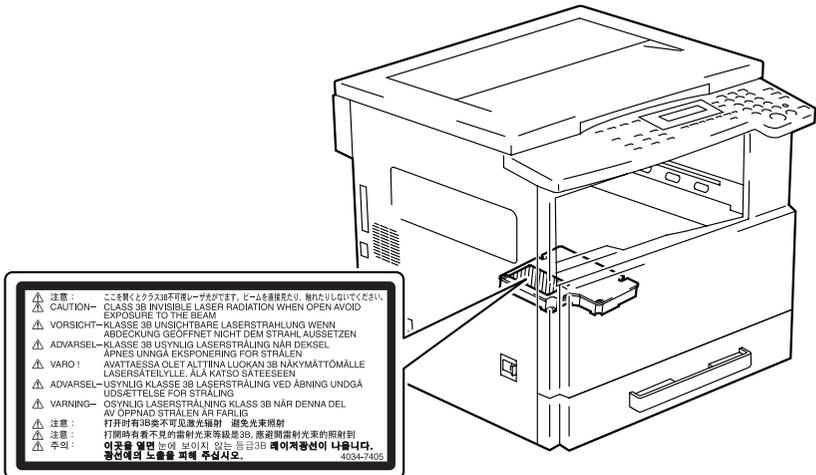
- A laser safety label is attached to the inside of the machine as shown below.



4035D510CA

4.3 Laser Caution Label

- A laser caution label is attached to the outside of the machine as shown below.



4035D509AA

4.4 PRECAUTIONS FOR HANDLING THE LASER EQUIPMENT

- When laser protective goggles are to be used, select ones with a lens conforming to the above specifications.
- When a disassembly job needs to be performed in the laser beam path, such as when working around the printerhead and PC Drum, be sure first to turn the printer OFF.
- If the job requires that the printer be left ON, take off your watch and ring and wear laser protective goggles.
- A highly reflective tool can be dangerous if it is brought into the laser beam path. Use utmost care when handling tools on the user's premises.
- The Print Head is not to be disassembled or adjusted in the field. Replace the Unit or Assembly including the Control Board. Therefore, remove the Laser Diode, and do not perform Control Board trimmer adjustment.

4.5 OTHER PRECAUTIONS

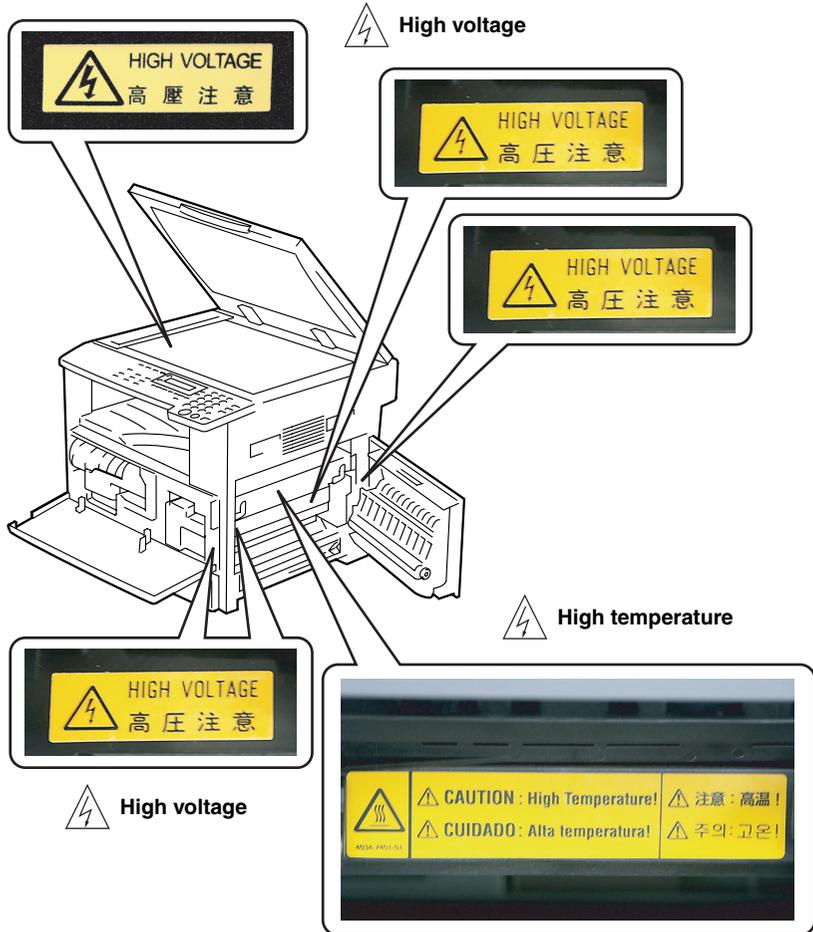
<p>CAUTION</p> <p>Double pole / neutral fusing</p>

<p>ATTENTION</p> <p>Double pôle / fusible sur le neutre.</p>

- * A fuse is installed in each of both L and N lines of the power source of this machine. If the machine is brought to a stop as a result of the fuse on the N line having been blown for some reason, there is still the power source voltage being applied to the primary circuit of the machine. To prevent an electric shock, be sure to unplug the power cord of the machine before attempting to service the machine.

WARNING INDICATIONS ON THE MACHINE

Caution labels shown are attached in some areas on/in the machine. When accessing these areas for maintenance, repair, or adjustment, special care should be taken to avoid burns and electric shock.



4034PJ501DA

⚠ CAUTION:

- You may be burned or injured if you touch any area that you are advised not to touch by any caution label. Do not remove caution labels. If any caution label has come off or become dirty and therefore the caution cannot be read, contact our Service Office.



KONICA MINOLTA

SERVICE MANUAL

FIELD SERVICE

bizhub 162

bizhub 210

Main Unit

After publication of this service manual, the parts and mechanism may be subject to change for improvement of their performance.

Therefore, the descriptions given in this service manual may not coincide with the actual machine.

When any change has been made to the descriptions in the service manual, a revised version will be issued with a revision mark added as required.

Revision mark:

- To indicate clearly a section revised, show  to the left of the revised section.
A number within  represents the number of times the revision has been made.
- To indicate clearly a section revised, show  in the lower outside section of the corresponding page.
A number within  represents the number of times the revision has been made.

NOTE

Revision marks shown in a page are restricted only to the latest ones with the old ones deleted.

- When a page revised in Ver. 2.0 has been changed in Ver. 3.0:
The revision marks for Ver. 3.0 only are shown with those for Ver. 2.0 deleted.
- When a page revised in Ver. 2.0 has not been changed in Ver. 3.0:
The revision marks for Ver. 2.0 are left as they are.

2005/04	1.0	—	Issue of the first edition
Date	Service manual Ver.	Revision mark	Descriptions of revision

CONTENTS

General

1.	System configuration.....	1
1.1	bizhub 210.....	1
1.2	bizhub 162.....	2
2.	Product specification.....	3
2.1	Copier.....	3
2.2	Fax Kit (FK-505): (Option).....	6

Maintenance

3.	Periodical check.....	7
3.1	Maintenance parts.....	7
3.1.1	Replacement parts.....	7
3.1.2	Cleaning parts.....	8
3.2	Concept of parts life.....	9
3.3	Maintenance procedure (Periodical check parts).....	10
3.3.1	Replacing the Separation Roller Assy and Feed Roller.....	10
3.3.2	Replacing the Paper Dust Remover Assy.....	11
3.3.3	Replacing the Imaging Unit (IU).....	11
3.3.4	Disassembly of the IU.....	12
3.3.5	Replacing the PC Drum.....	13
3.3.6	Replacing the Ozone Filter.....	14
3.3.7	Replacing the PC Drum Charge Corona Assy.....	14
3.3.8	Replacing the Cleaning Blade.....	14
3.3.9	Cleaning of the PC Drum Paper Separator Fingers.....	15
3.3.10	Cleaning of the Ds Collars.....	15
3.3.11	Cleaning of the Developer Scattering Prevention Plate.....	15
3.3.12	Replacing the Developer.....	16
3.3.13	Cleaning of the Pre-Image Transfer Guide Plate.....	16
3.3.14	Replacing the ATDC Sensor.....	17
3.3.15	Application of Toner.....	17
3.3.16	Replacing the Image Transfer Roller Assy.....	18
3.3.17	Replacing the Fusing Unit.....	19
3.3.18	Cleaning of the Original Glass and Original Scanning Glass.....	19
4.	Service tool.....	20
4.1	CE Tool list.....	20
5.	Firmware upgrade.....	21

bizhub 162 bizhub 210	5.1 Preparations for Firmware rewriting	21
	5.1.1 Installing the Driver	21
	5.2 Firmware rewriting	23
	5.2.1 Updating method	23
	5.2.2 Procedure when Upgrading the Firmware has failed	25
6. Other	27	
General	6.1 Disassembly/Adjustment prohibited items	27
	6.2 Disassembly/Assembly/Cleaning list (Other parts)	29
	6.2.1 Disassembly/Assembly parts list	29
	6.2.2 Cleaning parts list	30
	6.3 Disassembly/Assembly procedure	31
	6.3.1 Exterior Parts	31
	6.3.2 Master Board (PWB-A)	33
	6.3.3 Control Board (PWB-C/C)	33
	6.3.4 High Voltage Unit (HV1)	35
	6.3.5 Power Supply Unit (PU1)	35
	6.3.6 Paper Size Detecting Board (PWB-I)	36
	6.3.7 Heater Relay Board (PWB-RY): 200 V area only	37
	6.3.8 Pre-image Transfer Board (PWB-R2)	37
	6.3.9 Manual Bypass	38
	6.3.10 Manual Bypass (Duplex Unit)	38
	6.3.11 Toner Hopper Unit	38
	6.3.12 PH Unit	39
	6.3.13 Disassembly of the Fusing Unit	40
	6.3.14 CCD Unit	43
	6.3.15 Scanner, Exposure Lamp, and Inverter Board (PU2)	44
	6.3.16 Scanner Motor	45
	6.3.17 Scanner Drive Cables	46
	6.3.18 Main Motor	54
	6.3.19 Power Unit Cooling Fan Motor	55
	6.3.20 Fusing Cooling Fan Motor	55
	6.3.21 Paper Size Sensor Assy	56
	6.3.22 Fusing Unit Interlock Switch	57
6.3.23 Inch/Metric Sensor/1 Assy (3rd area Only)	59	
6.3.24 Flickerless Resistor (Only for 200 V area of bizhub 162)	59	
Maintenance	6.4 Cleaning procedure	60
	6.4.1 Separation Roller	60
	6.4.2 Feed Roller	60
Adjustment / Setting		
Troubleshooting		

6.4.3	Upper/Lower Synchronizing Rollers.....	60
6.4.4	Paper Dust Remover.....	61
6.4.5	Bypass Transport Roller/Roll.....	61
6.4.6	Mirrors.....	62
6.4.7	Lens.....	62
6.4.8	CCD Sensor.....	62
6.4.9	Scanner Rails/Bearings.....	63
6.4.10	PH Window.....	63
6.4.11	Pre-Image Transfer Lower Guide Plate.....	63
6.4.12	Charge Neutralizing Plate.....	64
6.5	Option counter.....	64
6.5.1	Installation of the Key Counter.....	64

Adjustment/Setting

7.	How to use the adjustment section.....	67
8.	Utility Mode.....	68
8.1	Utility Mode function tree.....	68
8.2	Utility Mode function setting procedure.....	69
8.2.1	Procedure.....	69
8.2.2	Exiting.....	69
8.2.3	Changing the setting value in Utility Mode functions.....	69
8.3	Setting in the Utility Mode.....	69
8.3.1	MACHINE SETTING.....	69
8.3.2	PAPER SOURCE SETUP.....	70
8.3.3	USER MANAGEMENT.....	71
8.3.4	ADMIN. MANAGEMENT.....	72
8.3.5	COPY SETTING 1.....	73
8.3.6	COPY SETTING 2.....	74
9.	Adjustment item list.....	76
10.	Service Mode.....	79
10.1	Service Mode function setting procedure.....	79
10.1.1	Procedure.....	79
10.1.2	Exiting.....	79
10.1.3	Changing the Setting Value in Service Mode Functions.....	79
10.2	Service Mode function tree.....	80
10.3	Setting in the Service Mode.....	83
10.3.1	SERVICE'S CHOICE.....	83
10.3.2	ADJUST.....	90

10.3.3	COUNTER	97
10.3.4	DISPLAY	101
10.3.5	FUNCTION	102
10.3.6	ADMIN. REGISTRATION.....	105
10.3.7	FIXED ZOOM CHANGE	105
10.3.8	FACTORY TEST	106
10.3.9	CLEAR DATA	107
11.	Security	109
11.1	Security Function Setting Procedure	109
11.1.1	Procedure	109
12.	Mechanical adjustment	110
12.1	Adjustment of the Position of the Scanner and 2nd/3rd Mirrors Carriage	110
12.2	CCD Unit Position Adjustment.....	111
12.3	Adjustment of the Gap between the Doctor Blade and Sleeve Roller (Db Adjustment)	112
12.4	Manual Bypass (for the optional AD-504) CD Registration Adjustment *bizhub 210 only	114

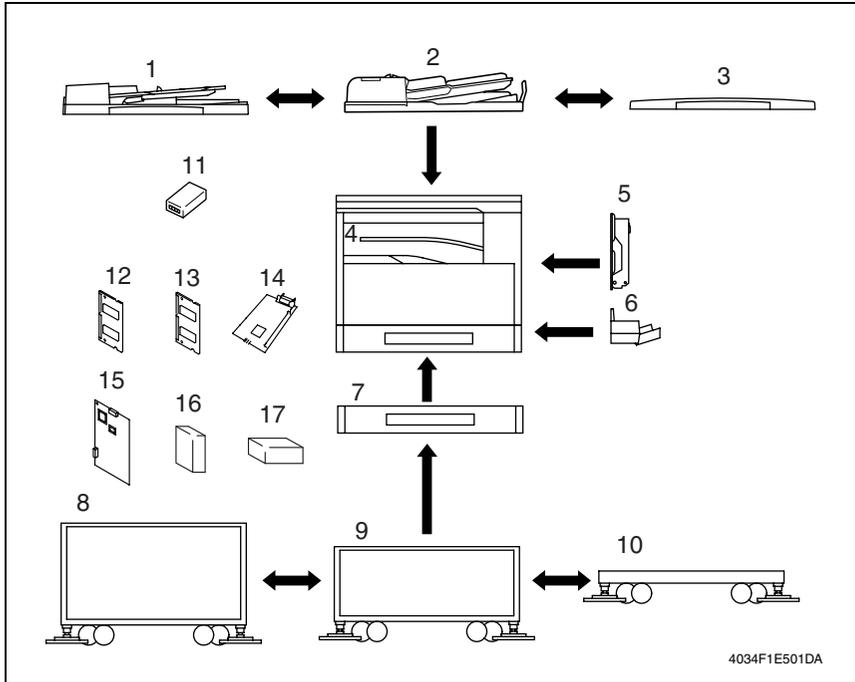
Troubleshooting

13.	Introduction	115
13.1	Electrical Components Check Procedure.....	115
13.1.1	Sensor	115
13.1.2	Switch	116
13.1.3	Solenoid.....	116
13.1.4	Clutch.....	116
13.1.5	Motor.....	117
14.	Jam Display.....	118
14.1	Misfeed Display	118
14.1.1	Display Resetting Procedure	118
14.2	Sensor layout.....	119
14.2.1	System Mounted with DF-502, PF-502 and MB-501.	119
14.3	Solution	120
14.3.1	Initial Check Items	120
14.3.2	Misfeed at the Paper Feed Tray/1 Paper Take-up Section.....	121
14.3.3	Misfeed at the Manual Bypass Paper Take-up Section.....	122
14.3.4	Misfeed at the Multiple Bypass Paper Take-up Section (When the optional Multiple Bypass MB-501 is mounted)	123
14.3.5	Misfeed at the Paper Feed Unit Paper Take-up/Vertical Transport Section (When the optional Paper Feed Unit PF-502 is mounted)	124

14.3.6	Misfeed at the Paper Separating Section.....	125
14.3.7	Misfeed at the Fusing/Exit Section.....	126
14.3.8	Misfeed at the Document Take-up Section (When the optional Automatic Document Feeder DF-502 is mounted).....	127
14.3.9	Misfeed at the Document Transport Section (When the optional Automatic Document Feeder DF-502 is mounted).....	128
14.3.10	Misfeed at the Document Exit Section (When the optional Automatic Document Feeder DF-502 is mounted).....	129
15.	Malfunction code	130
15.1	Trouble code	130
15.1.1	Trouble code list	130
15.2	How to reset.....	134
15.3	Solution.....	135
15.3.1	C0000: Main Motor malfunction	135
15.3.2	C0044: ADF Cooling Fan Failure (When the optional Duplexing Document Feeder DF-605 is mounted).....	136
15.3.3	C0045: Fusing Cooling Fan Motor Malfunction.....	137
15.3.4	C004E: Power Supply Cooling Fan Motor Malfunction	138
15.3.5	C0070: Toner Replenishing Motor Malfunction	139
15.3.6	C0210: Abnormal Image Transfer Voltage	140
15.3.7	C0500: Warm-up Failure	141
15.3.8	C0501: Warm-up Failure 2 (bizhub 210 Only).....	141
15.3.9	C0510: Fusing Failure (Abnormally Low Fusing Temperature).....	141
15.3.10	C0511: Fusing Failure (Abnormally Low Fusing Temperature 2) (bizhub 210 Only).....	141
15.3.11	C0520: Fusing Failure (Abnormally High Fusing Temperature)	141
15.3.12	C0521: Fusing Failure (Abnormally High Fusing Temperature 2) (bizhub 210 Only).....	141
15.3.13	C0650: Faulty Scanner Home Position Sensor	144
15.3.14	C0F32: Faulty ATDC Sensor.....	145
15.3.15	C0F33: Improperly Adjusted ATDC Sensor	145
15.3.16	C1038: Engine Connection Failure	146
15.3.17	C1200: Faulty ASIC/Memory	147
15.3.18	C1300: Polygon Motor Malfunction	148
15.3.19	C13F0: Faulty HSYNC	148
15.3.20	C133B: Communication with Option Error	149
15.3.21	C133D: ROM Check Error	149
15.3.22	C1468: Faulty Parameter Chip.....	149
15.3.23	C14A3: IR Fluorescent Lamp Fault.....	150

	15.4	Miscellaneous Errors.....	151
	15.4.1	Flash ROM Error.....	151
	16.	Power supply trouble.....	152
	16.1	The copier does not turn ON.....	152
	17.	Image quality problem.....	153
	17.1	How to identify problematic part.....	153
	17.1.1	Initial Check Items	153
	17.1.2	Identification of the Faulty System.....	154
	17.2	Solution	155
	17.2.1	Image Reading Section: Blank copy.....	155
	17.2.2	Image Reading Section: black copy.....	156
	17.2.3	Image Reading Section: Low image density.....	157
	17.2.4	Image Reading Section: Foggy background or rough image.....	158
	17.2.5	Image Reading Section: Black streaks or bands.....	159
	17.2.6	Image Reading Section: Black spots	160
	17.2.7	Image Reading Section: Blank streaks or bands.....	161
	17.2.8	Image Reading Section: Uneven image density.....	162
	17.2.9	Image Reading Section: Gradation reproduction failure.....	163
	17.2.10	Image Reading Section: Periodically uneven image.....	164
	17.2.11	Image Reading Section: Moire	165
	17.2.12	Printer Section: Blank copy.....	166
	17.2.13	Printer Section: Black copy.....	167
	17.2.14	Printer Section: Low image density	168
	17.2.15	Printer Section: Foggy background or rough image	169
	17.2.16	Printer Section: Black streaks or bands.....	170
	17.2.17	Printer Section: Black spots.....	171
	17.2.18	Printer Section: Blank streaks or bands.....	172
	17.2.19	Printer Section: Void areas	173
	17.2.20	Printer Section: Smear on back	174
	17.2.21	Printer Section: Uneven image density.....	175
	17.2.22	Printer Section: Gradation reproduction failure.....	176
	17.2.23	Printer Section: Periodically uneven image	177

Product: 2005 Konica Minolta bizhub 162/210, Fax Kit (FK-505),DF-502,DF-605,AD-504,MB-501,PF-502,JS-503,IC-205,EM-101,EM-102,NC-502,SU-502,DK-701,DK-702,DK-703,DK-704,DK-705,DK-706,DK-707,DK-708,DK-709,DK-710,DK-711,DK-712,DK-713,DK-714,DK-715,DK-716,DK-717,DK-718,DK-719,DK-720,DK-721,DK-722,DK-723,DK-724,DK-725,DK-726,DK-727,DK-728,DK-729,DK-730,DK-731,DK-732,DK-733,DK-734,DK-735,DK-736,DK-737,DK-738,DK-739,DK-740,DK-741,DK-742,DK-743,DK-744,DK-745,DK-746,DK-747,DK-748,DK-749,DK-750,DK-751,DK-752,DK-753,DK-754,DK-755,DK-756,DK-757,DK-758,DK-759,DK-760,DK-761,DK-762,DK-763,DK-764,DK-765,DK-766,DK-767,DK-768,DK-769,DK-770,DK-771,DK-772,DK-773,DK-774,DK-775,DK-776,DK-777,DK-778,DK-779,DK-780,DK-781,DK-782,DK-783,DK-784,DK-785,DK-786,DK-787,DK-788,DK-789,DK-790,DK-791,DK-792,DK-793,DK-794,DK-795,DK-796,DK-797,DK-798,DK-799,DK-800,DK-801,DK-802,DK-803,DK-804,DK-805,DK-806,DK-807,DK-808,DK-809,DK-810,DK-811,DK-812,DK-813,DK-814,DK-815,DK-816,DK-817,DK-818,DK-819,DK-820,DK-821,DK-822,DK-823,DK-824,DK-825,DK-826,DK-827,DK-828,DK-829,DK-830,DK-831,DK-832,DK-833,DK-834,DK-835,DK-836,DK-837,DK-838,DK-839,DK-840,DK-841,DK-842,DK-843,DK-844,DK-845,DK-846,DK-847,DK-848,DK-849,DK-850,DK-851,DK-852,DK-853,DK-854,DK-855,DK-856,DK-857,DK-858,DK-859,DK-860,DK-861,DK-862,DK-863,DK-864,DK-865,DK-866,DK-867,DK-868,DK-869,DK-870,DK-871,DK-872,DK-873,DK-874,DK-875,DK-876,DK-877,DK-878,DK-879,DK-880,DK-881,DK-882,DK-883,DK-884,DK-885,DK-886,DK-887,DK-888,DK-889,DK-890,DK-891,DK-892,DK-893,DK-894,DK-895,DK-896,DK-897,DK-898,DK-899,DK-900,DK-901,DK-902,DK-903,DK-904,DK-905,DK-906,DK-907,DK-908,DK-909,DK-910,DK-911,DK-912,DK-913,DK-914,DK-915,DK-916,DK-917,DK-918,DK-919,DK-920,DK-921,DK-922,DK-923,DK-924,DK-925,DK-926,DK-927,DK-928,DK-929,DK-930,DK-931,DK-932,DK-933,DK-934,DK-935,DK-936,DK-937,DK-938,DK-939,DK-940,DK-941,DK-942,DK-943,DK-944,DK-945,DK-946,DK-947,DK-948,DK-949,DK-950,DK-951,DK-952,DK-953,DK-954,DK-955,DK-956,DK-957,DK-958,DK-959,DK-960,DK-961,DK-962,DK-963,DK-964,DK-965,DK-966,DK-967,DK-968,DK-969,DK-970,DK-971,DK-972,DK-973,DK-974,DK-975,DK-976,DK-977,DK-978,DK-979,DK-980,DK-981,DK-982,DK-983,DK-984,DK-985,DK-986,DK-987,DK-988,DK-989,DK-990,DK-991,DK-992,DK-993,DK-994,DK-995,DK-996,DK-997,DK-998,DK-999,DK-1000



- | | |
|--|---|
| [1] Automatic Document Feeder (DF-502) | [10] Copy Table (DK-703)*3 |
| [2] Duplexing Document Feeder (DF-605) | [11] Key Counter Kit |
| [3] Original Cover Kit (OC-504)*1 | [12] 32MB Memory (EM-101) |
| [4] Job Separator (JS-503) | [13] 64MB Memory (EM-102) |
| [5] Duplex Unit (AD-504) | [14] Printer Controller (IC-205) |
| [6] Multiple Bypass (MB-501) | [15] Network Interface Card (NC-502) |
| [7] Paper Feed Unit (PF-502)*2 | [16] Internet Fax & Network Scan Kit (SU-502) |
| [8] Copy Desk (DK-701)*3 | [17] Fax Kit (FK-505) |
| [9] Copy Desk (DK-702)*3 | [18] Shifting Unit (SF-501) (Illustration none) |

*1: Standard for the Chinese market

*2: One drawer PF-502 is standard for the Chinese market.

*3: 3rd area only

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