



KONICA MINOLTA

## SERVICE MANUAL

FIELD SERVICE

**magicolor<sup>®</sup> 2500W**  
**magicolor<sup>®</sup> 2530 DL**  
**magicolor<sup>®</sup> 2550**  
**magicolor<sup>®</sup> 2550DN**

2006.08

KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. Ver. 1.0

# FIELD SERVICE TOTAL CONTENTS

SAFETY AND IMPORTANT WARNING ITEMS .....	S-1
IMPORTANT NOTICE .....	S-1
DESCRIPTION ITEMS FOR DANGER, WARNING AND CAUTION .....	S-1
SAFETY WARNINGS .....	S-2
WARNING INDICATIONS ON THE MACHINE .....	S-19
MEASURES TO TAKE IN CASE OF AN ACCIDENT .....	S-21
Composition of the service manual .....	C-1
Notation of the service manual .....	C-2

## magicolor 2500W/magicolor 2530 DL/magicolor 2550 magicolor 2550DN Main Unit

General .....	1
Maintenance .....	7
Adjustment/Setting.....	71
Troubleshooting.....	133
Appendix.....	179

## Lower Feeder Unit

General .....	1
Maintenance .....	3
Troubleshooting.....	11

## Duplex Option

General .....	1
Maintenance .....	3
Troubleshooting.....	15



## SAFETY AND IMPORTANT WARNING ITEMS

Read carefully the Safety and Important Warning Items described below to understand them before doing service work.

### IMPORTANT NOTICE

Because of possible hazards to an inexperienced person servicing this product as well as the risk of damage to the product, KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. (hereafter called the KMBT) strongly recommends that all servicing be performed only by KMBT-trained service technicians.

Changes may have been made to this product to improve its performance after this Service Manual was printed. Accordingly, KMBT does not warrant, either explicitly or implicitly, that the information contained in this Service Manual is complete and accurate.

The user of this Service Manual must assume all risks of personal injury and/or damage to the product while servicing the product for which this Service Manual is intended.




Therefore, this Service Manual must be carefully read before doing service work both in the course of technical training and even after that, for performing maintenance and control of the product properly.

Keep this Service Manual also for future service.













### DESCRIPTION ITEMS FOR DANGER, WARNING AND CAUTION

In this Service Manual, each of three expressions “⚠ DANGER”, “⚠ WARNING”, and “⚠ CAUTION” is defined as follows together with a symbol mark to be used in a limited meaning.

When servicing the product, the relevant works (disassembling, reassembling, adjustment, repair, maintenance, etc.) need to be conducted with utmost care.

-  **DANGER:** Action having a high possibility of suffering death or serious injury
-  **WARNING:** Action having a possibility of suffering death or serious injury
-  **CAUTION:** Action having a possibility of suffering a slight wound, medium trouble, and property damage

Symbols used for safety and important warning items are defined as follows:

	:Precaution when servicing the product.		General precaution		Electric hazard		High temperature
	:Prohibition when servicing the product.		General prohibition		Do not touch with wet hand		Do not disassemble
	:Direction when servicing the product.		General instruction		Unplug		Ground/Earth



## 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.

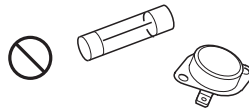
#### Prohibited Actions

##### DANGER

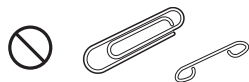
- Using any cables or power cord not specified by KMBT.



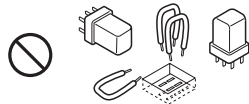
- Using any fuse or thermostat not specified by KMBT. Safety will not be assured, leading to a risk of fire and injury.



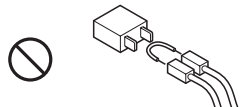
- Disabling fuse functions or bridging fuse terminals with wire, metal clips, solder or similar object.



- Disabling relay functions (such as wedging paper between relay contacts)



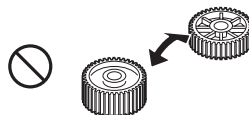
- Disabling safety functions (interlocks, safety circuits, etc.) Safety will not be assured, leading to a risk of fire and injury.



- Making any modification to the product unless instructed by KMBT



- 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.



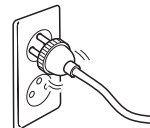
- Plug the power cord into the dedicated wall outlet with a capacity greater than the maximum power consumption.  
If excessive current flows in the wall outlet, fire may result.



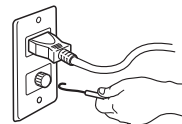
- If two or more power cords can be plugged into the wall outlet, the total load must not exceed the rating of the wall outlet.  
If excessive current flows in the wall outlet, fire may result.



- 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.



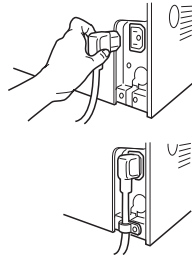
## Power Plug and Cord

### 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.

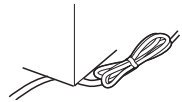
When securing measure is provided, secure the cord with the fixture properly.

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.



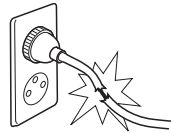
- Check whether the power cord is not stepped on or pinched by a table and so on.

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



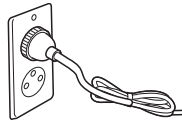
- Check whether the power cord is damaged. Check whether the sheath is damaged.

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.



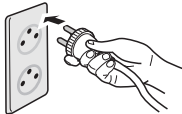
- Do not bundle or tie the power cord.

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.



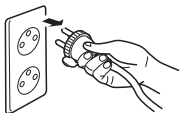
- Do not insert the power plug into the wall outlet with a wet hand.

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.

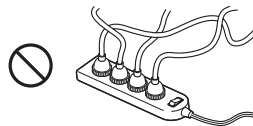


## Wiring

### **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.

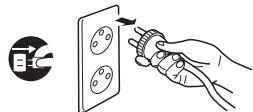


### When not Using the Product for a long time

### **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.



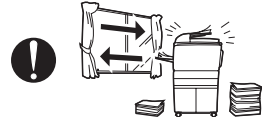
## Ventilation

### ⚠ 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.

- a. When the product is used in a poorly ventilated room
- b. When taking a lot of copies
- c. 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.

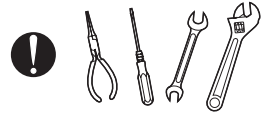


## Inspection before Servicing

### ⚠ CAUTION

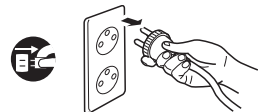
- Before conducting an inspection, read all relevant documentation (service manual, technical notices, etc.) and proceed with the inspection following the prescribed procedure, using only the prescribed tools. Do not make any adjustment not described in the documentation.

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



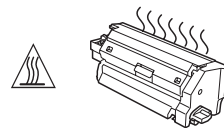
- Before conducting an inspection, be sure to disconnect the power plugs from the product and options.

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.

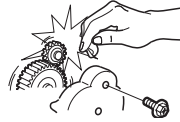


## Work Performed with the Product Powered On

### 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

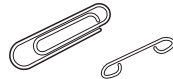
- Check the exterior and frame for edges, burrs, and other damage.

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.



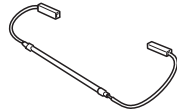
- When replacing a lithium battery, replace it with a new lithium battery specified in the Parts Guide Manual. Dispose of the used lithium battery using the method specified by local authority.

Improper replacement can cause explosion.



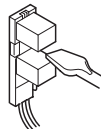
- After replacing a part to which AC voltage is applied (e.g., optical lamp and fixing lamp), be sure to check the installation state.

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.)

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.



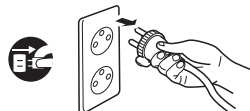
- Never throw the used cartridge and toner into fire.  
You may be burned due to dust explosion.



## 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



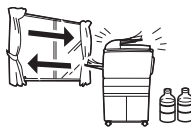
### CAUTION

- 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

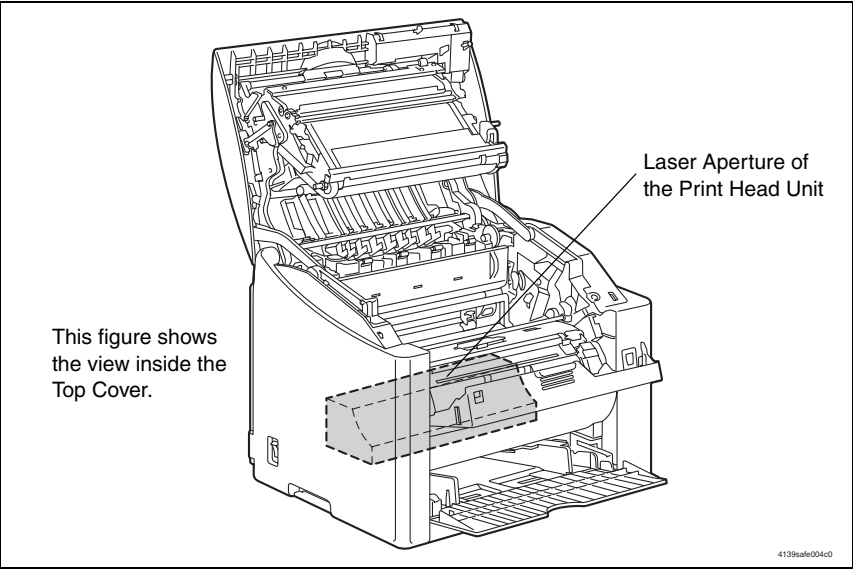
- This is a digital machine certified as a Class 1 laser product. There is no possibility of danger from a laser, provided the machine is serviced according to the instruction in this manual.

4.1 Internal Laser Radiation

semiconductor laser	
Maximum power of the laser diode	10 mW
Maximum average radiation power (*)	7.5 $\mu$ W
Wavelength	775-800 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	10 mW
Wavelength	775-800 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	10 mW
Wavelength	775-800 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	10 mW
bølgelængden	775-800 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	10 mW
aallonpituus	775-800 nm

**VARNING!**

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

halvledarlaser	
Den maximala effekten för laserdioden	10 mW
våglängden	775-800 nm

**VARO!**

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

**VARNING!**

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

## Norway

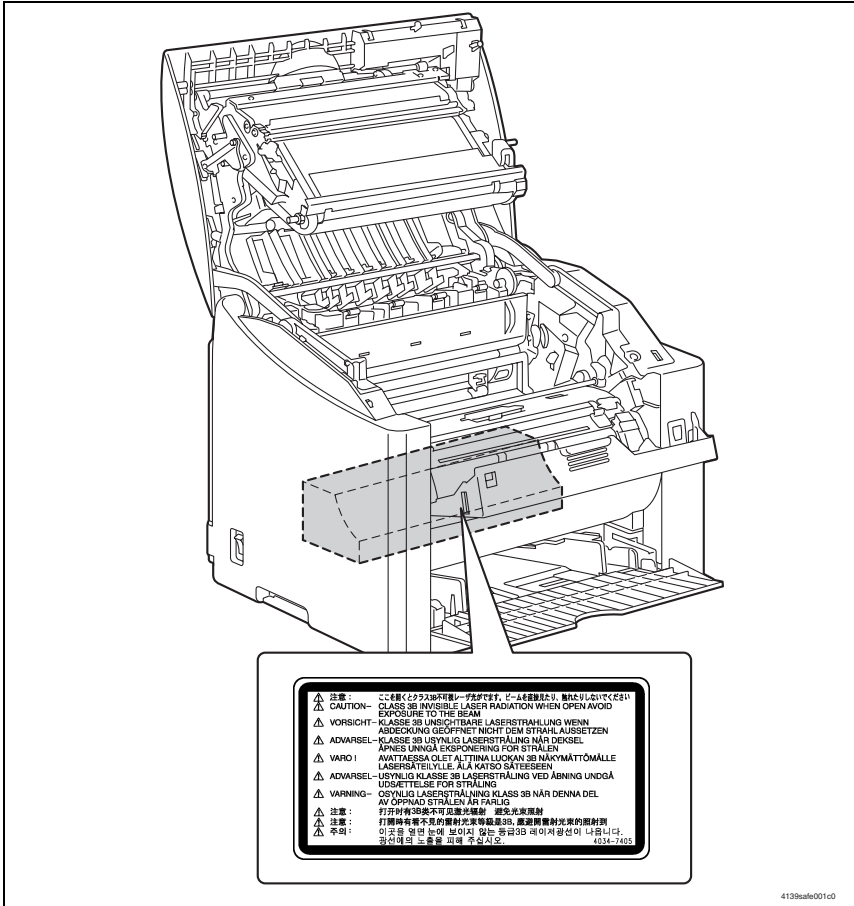
**ADVERSEL**

- 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	10 mW
bølgelengde	775-800 nm

## 4.2 Laser Safety Label

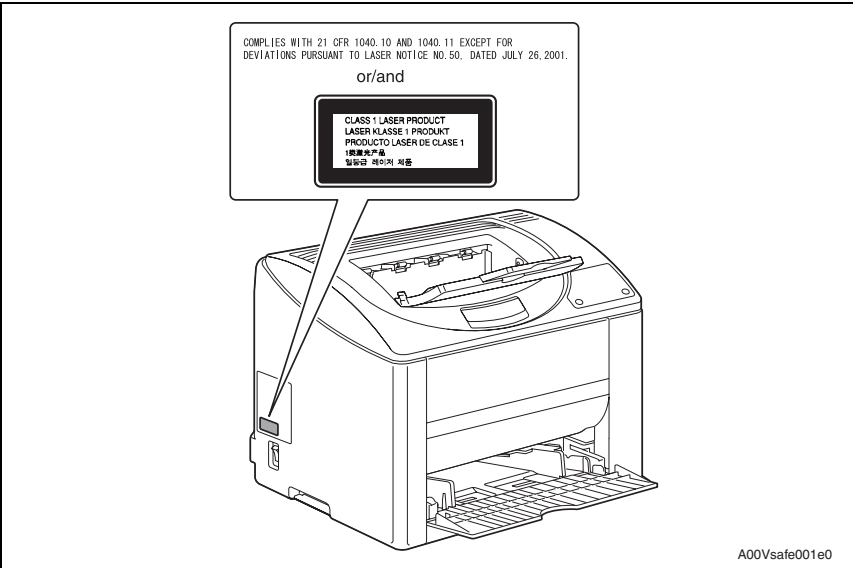
- A laser safety label is attached to the inside of the machine as shown below.



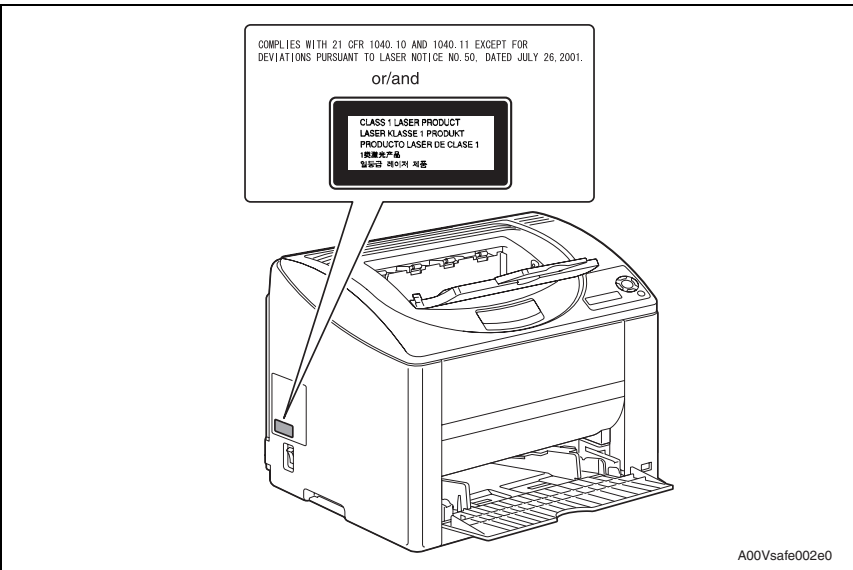
### 4.3 Laser Caution Label

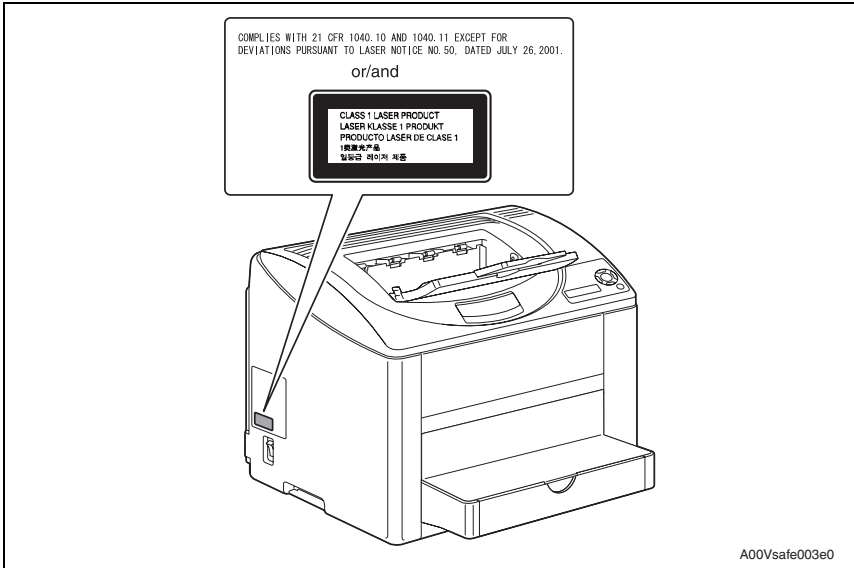
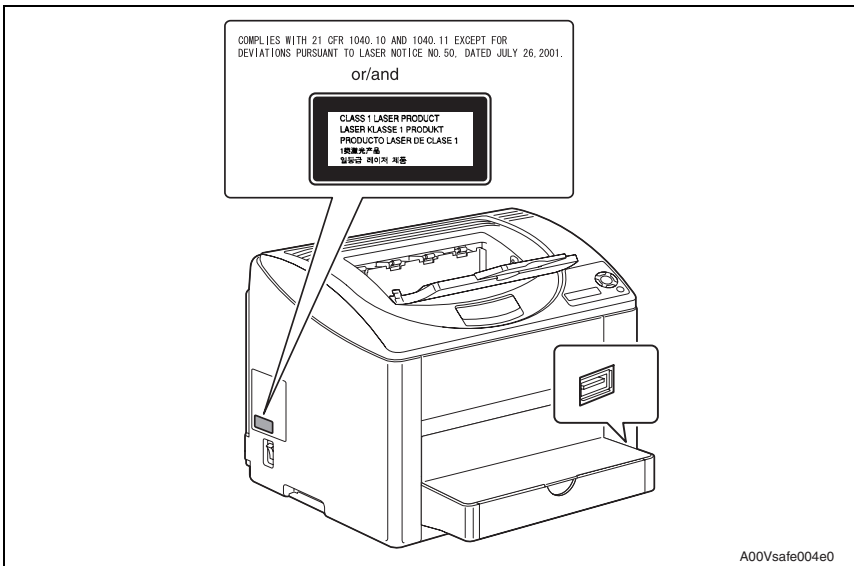
- A laser caution label is attached to the outside of the machine as shown below.

#### A. magicolor 2500W



#### B. magicolor 2530 DL



**C. magicolor 2550****D. magicolor 2550DN**



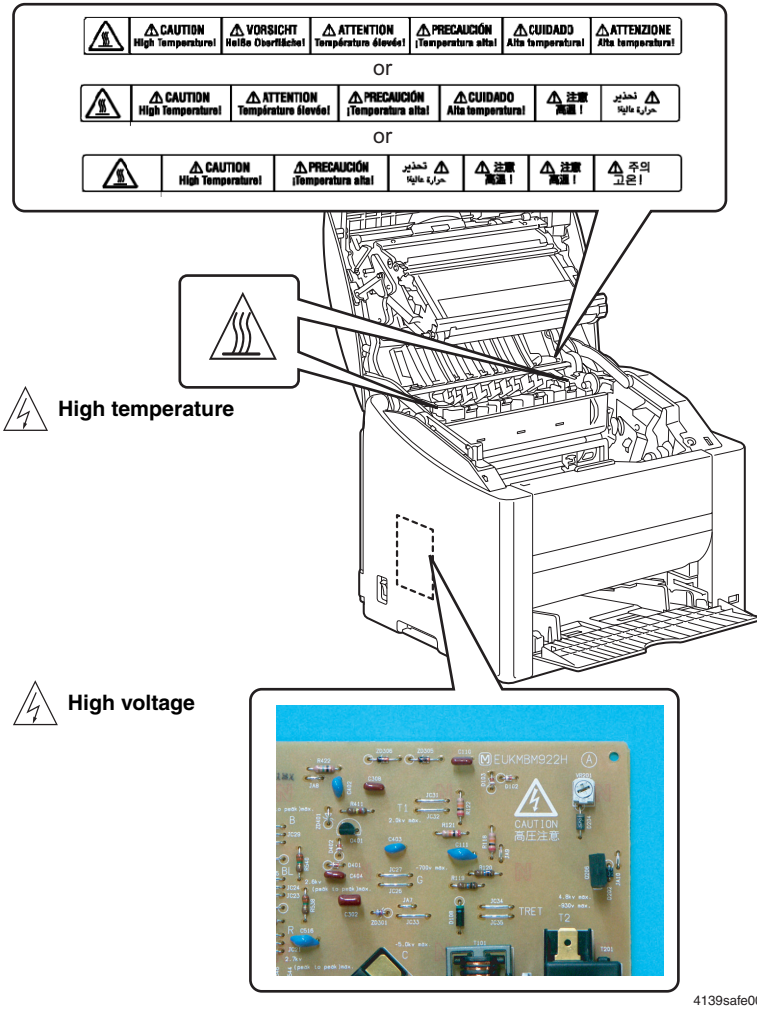
#### **4.4 PRECAUTIONS FOR HANDLING THE LASER EQUIPMENT**

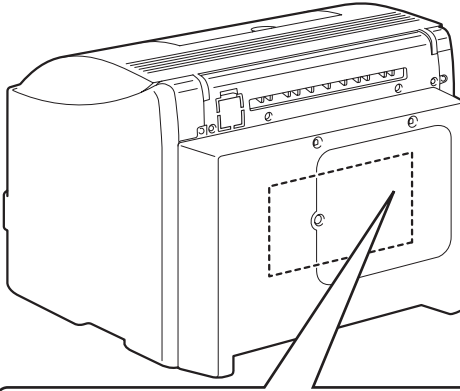
- When laser protective goggles are to be used, select ones with a lens conforming to the above specifications.
- When a disassembly job needs to be performed in the laser beam path, such as when working around the printerhead and PC Drum, be sure first to turn the printer OFF.
- If the job requires 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.

## WARNING INDICATIONS ON THE MACHINE

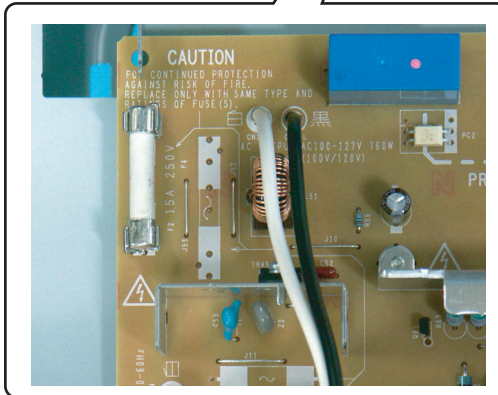
Caution labels shown are attached in some areas on/in the machine.

When accessing these areas for maintenance, repair, or adjustment, special care should be taken to avoid burns and electric shock.





**High voltage**



4139safe010c0



**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.

## **MEASURES TO TAKE IN CASE OF AN ACCIDENT**

1. If an accident has occurred, the distributor who has been notified first must immediately take emergency measures to provide relief to affected persons and to prevent further damage.
2. If a report of a serious accident has been received from a customer, an on-site evaluation must be carried out quickly and KMBT must be notified.
3. To determine the cause of the accident, conditions and materials must be recorded through direct on-site checks, in accordance with instructions issued by KMBT.
4. For reports and measures concerning serious accidents, follow the regulations specified by every distributor.

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# Composition of the service manual

This service manual consists of Theory of Operation section and Field Service section to explain the main machine and its corresponding options.

Theory of Operation section gives, as information for the CE to get a full understanding of the product, a rough outline of the object and role of each function, the relationship between the electrical system and the mechanical system, and the timing of operation of each part.

Field Service section gives, as information required by the CE at the site (or at the customer's premise), a rough outline of the service schedule and its details, maintenance steps, the object and role of each adjustment, error codes and supplementary information.

The basic configuration of each section is as follows. However some options may not be applied to the following configuration.

## <Theory of Operation section>

OUTLINE:	Explanation of system configuration, product specifications, unit configuration, and media path
COMPOSITION/OPERATION:	Explanation of configuration of each unit, operating system, and control system

## <Field service section>

GENERAL:	Explanation of system configuration, and product specifications
MAINTENANCE:	Explanation of service schedule, maintenance steps, service tools, removal/reinstallation methods of major parts, and firmware version up method etc.
ADJUSTMENT/SETTING:	Explanation of utility mode, service mode, and mechanical adjustment etc.
TROUBLESHOOTING:	Explanation of lists of jam codes and error codes, and their countermeasures etc.
APPENDIX:	Parts layout drawings, connector layout drawings, timing chart, overall layout drawing are attached.

# Notation of the service manual

## A. Product name

In this manual, each of the products is described as follows:

- |   |                              |
|---|------------------------------|
| (1) IC board:   | Standard printer             |
| (2) magicolor 2500W/magicolor 2530 DL<br>magicolor 2550/magicolor 2550DN: | Main body                    |
| (3) Microsoft Windows 95:   | Windows 95                   |
| Microsoft Windows 98:   | Windows 98                   |
| Microsoft Windows Me:   | Windows Me                   |
| Microsoft Windows NT 4.0:   | Windows NT 4.0 or Windows NT |
| Microsoft Windows 2000:   | Windows 2000                 |
| Microsoft Windows XP:   | Windows XP                   |

When the description is made in combination of the OS's mentioned above:

Windows 95/98/Me  
Windows NT 4.0/2000  
Windows NT/2000/XP  
Windows 95/98/Me/ NT/2000/XP

## B. Brand name

The company names and product names mentioned in this manual are the brand name or the registered trademark of each company.

## C. Feeding direction

- When the long side of the media is parallel with the feeding direction, it is called short edge feeding. The feeding direction which is perpendicular to the short edge feeding is called the long edge feeding.
- Short edge feeding will be identified with [S (abbreviation for Short edge feeding)] on the media size. No specific notation is added for the long edge feeding.

When the size has only the short edge feeding with no long edge feeding, [S] will not be added to the media size.

<Sample notation>

Media size	Feeding direction	Notation
A4	Long edge feeding	A4
	Short edge feeding	A4S
A3	Short edge feeding	A3



KONICA MINOLTA

## SERVICE MANUAL

FIELD SERVICE

---

# **magicolor<sup>®</sup> 2500W** **magicolor<sup>®</sup> 2530 DL** **magicolor<sup>®</sup> 2550** **magicolor<sup>®</sup> 2550DN** **Main Unit**







# Revision history

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.

2006/08	1.0	—	Issue of the first edition
Date	Service manual Ver.	Revision mark	Descriptions of revision

CONTENTS

magicolor 2500W/magicolor 2530 DL/magicolor 2550  
magicolor 2550DN Main Unit

General

1. System configuration..... 1

2. Product specifications ..... 2

Maintenance

3. Periodic check ..... 7

3.1 Maintenance items..... 7

3.1.1 Parts to be replaced by users (CRUs) ..... 7

3.1.2 Parts to be replaced by service engineers (FRUs) ..... 8

3.2 Maintenance parts ..... 9

3.3 Concept of parts life..... 10

3.4 Maintenance procedure (Periodic parts check) ..... 11

3.4.1 Pick-up roller ..... 11

3.4.2 PH window ..... 13

3.4.3 Toner Cartridge (C/M/Y/K) ..... 13

3.4.4 Drum cartridge ..... 17

3.4.5 2nd transfer roller ..... 18

3.4.6 Transfer belt unit..... 19

3.4.7 Fusing unit ..... 20

4. Firmware upgrade ..... 23

4.1 Image processing board (IPB) firmware upgrading (magicolor 2530 DL)..... 23

4.1.1 Upgrading procedure ..... 23

4.2 Image processing board (IPB) firmware upgrading (magicolor 2550/  
magicolor 2550DN)..... 25

4.2.1 Upgrading procedure ..... 25

5. Other ..... 29

5.1 Disassembly/adjustment prohibited items ..... 29

5.2 Disassembly/assembly list (other parts) ..... 30

5.3 Disassembly/assembly procedure ..... 31

5.3.1 Rear panel ..... 31

5.3.2 Rear cover..... 31

5.3.3 Left cover ..... 32

5.3.4 Right cover ..... 33

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

General

Maintenance

Adjustment / Setting

Troubleshooting

Appendix

5.3.5	Paper take-up cover.....	33
5.3.6	Front cover.....	33
5.3.7	Control panel .....	34
5.3.8	USB board (USB) .....	35
5.3.9	Image processing board (IPB) .....	36
5.3.10	Printer control board (PRCB).....	40
5.3.11	DC power supply (DCPU) .....	43
5.3.12	High voltage unit (HV).....	46
5.3.13	PH unit.....	47
5.3.14	Paper pick-up unit.....	58
5.3.15	Main motor (M1) .....	59
5.3.16	Power supply cooling fan motor (FM1) .....	59
5.3.17	Ventilation fan motor (FM2).....	61
5.3.18	Fusing motor (M4) .....	61
5.3.19	Developing motor (M3) .....	62
5.3.20	Rack motor (M2) .....	63
5.3.21	Tray1 paper pick-up solenoid (SD1).....	63
5.3.22	Registration roller solenoid (SD2) .....	64
5.3.23	Pressure/retraction solenoid/cleaning blade (SD3).....	65
5.3.24	Pressure/retraction solenoid /2nd image transfer (SD4).....	65
5.3.25	Temperature/humidity sensor (TEM/HUMS) .....	65
5.3.26	Separation pad .....	66
5.3.27	IDC Sensor (IDC).....	67
5.3.28	Torque limiter .....	68
5.3.29	Hard disk kit (Option) .....	69

## Adjustment/Setting

6.	How to use the adjustment section .....	71
7.	Description of the control panel (magicolor 2500W) .....	72
7.1	Control panel display .....	72
7.1.1	LED Indicator .....	72
7.1.2	List of status messages .....	73
7.1.3	Cancel key .....	74
7.2	Service support tools.....	75
7.2.1	Details of service support tools.....	75
7.2.2	Compatible OS .....	75
7.2.3	High altitude support.....	75
7.2.4	White spots/void areas in high-density areas .....	76

7.2.5	Consumables expected life display .....	76
7.2.6	Consumables counter reset .....	77
8.	Description of the control panel (magicolor 2530 DL) .....	80
8.1	Control panel display .....	80
8.1.1	Basic screen .....	80
8.1.2	Warning screen .....	80
8.1.3	Error display .....	80
8.1.4	Caution display .....	80
8.2	List of control panel messages .....	81
8.2.1	Normal state messages .....	81
8.2.2	Caution messages .....	81
8.2.3	Minor error messages .....	81
8.2.4	Error messages .....	82
8.2.5	Serious error messages .....	82
8.2.6	Malfunction messages .....	83
8.3	Canceling a print job .....	83
9.	MENU (magicolor 2530 DL) .....	84
9.1	List of MENU functions .....	84
9.2	SPECIAL PAGES .....	86
9.2.1	PRINT CONFIG PAGE .....	86
9.2.2	PRINT TEST PAGES .....	86
9.2.3	PRINT MENU MAP .....	86
9.3	LANGUAGE .....	86
9.4	ENGINE .....	87
9.4.1	REPLACE TONER .....	87
9.4.2	TONER EMPTY .....	87
9.4.3	ENERGY SAVER .....	88
9.4.4	AUTO CONTINUE .....	88
9.4.5	TRAY CHAINING .....	88
9.4.6	SERVICE .....	88
9.5	NETWORK .....	92
9.5.1	DHCP:XX / BOOTP:XX .....	92
9.5.2	IP ADDRESS .....	92
9.5.3	SUBNET MASK .....	92
9.5.4	GATEWAY .....	92
9.5.5	MAC ADDRESS .....	93
9.5.6	HTTP .....	93
9.5.7	SNMP .....	93

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

General

Maintenance

Adjustment / Setting

Troubleshooting

Appendix

9.5.8	FORCED MODES .....	93
9.6	CONSUMABLE USAGE .....	94
9.6.1	BLACK TONER .....	94
9.6.2	CYAN TONER .....	94
9.6.3	MAGENTA TONER .....	94
9.6.4	YELLOW TONER .....	94
9.6.5	DRUM CARTRIDGE .....	94
9.7	DIRECT PRINT .....	94
9.7.1	IMAGE QUALITY .....	94
9.7.2	PAPER SIZE .....	95
9.7.3	MEDIA TYPE .....	95
9.7.4	LAYOUT .....	95
9.7.5	BRIGHTNESS .....	95
9.7.6	SHARPNESS .....	96
9.7.7	AUTO ROTATE .....	96
10.	Description of the control panel (magicolor 2550/magicolor 2550DN) .....	97
10.1	Control panel display .....	97
10.1.1	Basic screen .....	97
10.1.2	Caution display .....	97
10.1.3	Error display .....	97
10.1.4	Malfunction screen .....	98
10.2	List of control panel messages .....	99
10.2.1	Standard status messages .....	99
10.2.2	Caution messages .....	99
10.2.3	Error messages .....	100
10.2.4	Malfunction messages .....	101
10.3	Cancelling a print job .....	101
11.	MENU (magicolor 2550/magicolor 2550DN) .....	102
11.1	List of MENU functions .....	102
11.2	PROOF/PRINT MENU .....	104
11.2.1	Entering the password .....	104
11.3	PRINT MENU .....	105
11.3.1	MENU MAP .....	105
11.3.2	CONFIGURATION .....	105
11.3.3	STATISTICS PAGE .....	105
11.3.4	FONT LIST .....	105
11.3.5	DIRECTORY LIST .....	106
11.3.6	DEMO .....	106

11.4	PAPER MENU .....	106
11.4.1	INPUT TRAY .....	106
11.4.2	DUPLEX.....	109
11.4.3	ORIENTATION .....	109
11.4.4	PAGE RECOVERY .....	109
11.5	QUALITY MENU .....	109
11.5.1	REPLACE TONER.....	109
11.5.2	TONER OUT ACTION.....	110
11.5.3	AIDC .....	110
11.5.4	DENSITY CONTROL .....	110
11.6	CAMERA DIRECT .....	111
11.6.1	PAPER SOURCE .....	111
11.6.2	LAYOUT .....	111
11.6.3	PAPER MARGIN .....	111
11.7	INTERFACE MENU .....	112
11.7.1	ETHERNET .....	112
11.7.2	USB.....	114
11.7.3	PARALLEL .....	115
11.7.4	ACTIVE I/F .....	115
11.8	SYSTEM DEFAULT MENU .....	115
11.8.1	PRINT QUALITY .....	115
11.8.2	COLOR MODE .....	115
11.8.3	EMULATIONS .....	116
11.8.4	STARTUP OPTIONS.....	117
11.8.5	DATE & TIME .....	118
11.8.6	ENERGY SAVER .....	118
11.8.7	ENERGY SAVER MGT .....	118
11.8.8	SECURITY .....	119
11.8.9	CAPTURE PRT JOB.....	119
11.8.10	FORMAT .....	119
11.8.11	RESTORE/SAVE .....	120
11.9	LANGUAGE .....	120
11.10	ENVIRONMENT MENU.....	121
11.10.1	ALTITUDE SETUP .....	121
11.10.2	TRANSFER VOLTAGE.....	122
11.10.3	DUPLEX DENSITY .....	122
12.	Service mode (magicolor 2500W) .....	123
12.1	Service mode entry procedure .....	123

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

General

Maintenance

Adjustment / Setting

Troubleshooting

Appendix

12.1.1	Toner cartridge removal mode .....	123
13.	SERVICE PERSON mode (magicolor 2530 DL).....	124
13.1	SERVICE PERSON mode entry procedure .....	124
13.2	List of service mode menu functions .....	124
13.3	Settings/adjustments in Service/Service person mode functions.....	125
13.3.1	RESTORE FACTORY DEFAULT.....	125
13.3.2	SERVICE PERSON SRU USAGE .....	128
13.3.3	RESET CONTROLLER .....	128
13.3.4	RESET COUNTER TRANSFER BELT .....	128
13.3.5	RESET COUNTER FUSER UNIT .....	128
13.3.6	RESET COUNTER TRANSFER ROLLER .....	128
14.	SERVICE MENU (magicolor 2550/magicolor 2550DN) .....	129
14.1	SERVICE MENU entry procedure .....	129
14.2	List of SERVICE MENU Functions .....	129
14.3	Settings/adjustments in SERVICE MENU functions.....	130
14.3.1	SRU .....	130

## Troubleshooting

15.	Jam display .....	133
15.1	Misfeed display .....	133
15.2	Misfeed display resetting procedure .....	135
15.3	Sensor layout.....	135
15.3.1	For magicolor 2530 DL/magicolor 2550/magicolor 2550DN (mounted with the Lower Feeder Unit and Duplex Option) .....	135
15.4	Solution .....	136
15.4.1	Initial check items .....	136
15.4.2	Misfeed at media feed section .....	136
15.4.3	Misfeed at 2nd transfer section .....	137
15.4.4	Misfeed at fusing section .....	138
15.4.5	Misfeed at exit section .....	139
15.4.6	Undefined misfeed .....	139
16.	Error codes .....	140
16.1	Trouble code.....	140
16.1.1	Indication of the error indicator (magicolor 2500W).....	140
16.1.2	Indication of the LCD display (magicolor 2530 DL).....	141
16.1.3	Indication of the LCD display (magicolor 2550/magicolor 2550DN) .....	141
16.1.4	Trouble code list.....	141
16.2	How to reset .....	144
16.3	Solution .....	145

16.3.1	04: Printer control board malfunction .....	145
16.3.2	05: Flash ROM malfunction.....	145
16.3.3	08: Main motor malfunction.....	146
16.3.4	0B: Ventilation fan motor malfunction.....	146
16.3.5	0C: Power supply cooling fan motor malfunction .....	147
16.3.6	10: Polygon motor malfunction.....	147
16.3.7	12: Laser malfunction.....	148
16.3.8	14: 2nd image transfer pressure/retraction failure.....	148
16.3.9	15: Cleaning blade pressure/retraction failure .....	149
16.3.10	16: Transfer belt rotation failure.....	150
16.3.11	17: Rack rotation failure .....	150
16.3.12	18: Heating roller warm-up failure .....	151
16.3.13	19: Abnormally low heating roller temperature .....	151
16.3.14	1A: Abnormally high heating roller temperature.....	151
16.3.15	1B: Faulty thermistor .....	151
16.3.16	21: Faulty OHP sensor .....	151
16.3.17	24: Faulty fusing thermistor resistor.....	152
17.	Power supply errors.....	153
17.1	Machine is not energized at all (PU operation check) .....	153
17.2	Control panel indicators do not light .....	153
17.3	Fusing heaters do not operate.....	154
18.	Miscellaneous errors .....	155
18.1	List of miscellaneous malfunctions .....	155
18.1.1	Fatal error engine I/F.....	155
18.2	ROM error.....	156
18.2.1	SDRAM error .....	156
18.3	Fatal error EEPROM.....	157
18.3.1	Fatal error data decompression .....	157
18.4	Fatal error non-supported engine .....	158
18.5	Fatal error IDC sensor .....	158
18.6	Controller internal error.....	159
18.7	Fatal error DBE.....	159
18.7.1	Fatal error video transfer .....	159
18.8	Fatal print spooler error .....	160
19.	Image quality problems .....	161
19.1	Solution.....	161
19.1.1	White lines in FD, white bands in FD, colored lines in FD, and colored bands in FD.....	161

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

General

Maintenance

Adjustment / Setting

Troubleshooting

Appendix



19.1.2	White lines in CD, white bands in CD, colored lines in CD, and colored bands in CD .....	162
19.1.3	Uneven density in FD.....	163
19.1.4	Uneven density in CD .....	164
19.1.5	Low image density .....	165
19.1.6	Gradation reproduction failure .....	166
19.1.7	Foggy background .....	167
19.1.8	Poor color reproduction.....	168
19.1.9	Void areas, white spots .....	169
19.1.10	Colored spots.....	170
19.1.11	Blurred image .....	171
19.1.12	Blank copy, black copy .....	172
19.1.13	Incorrect color image registration .....	173
19.1.14	Poor fusing performance, offset.....	174
19.1.15	Brush effect, blurred image.....	175
19.1.16	Back marking .....	176
19.1.17	Uneven pitch.....	177

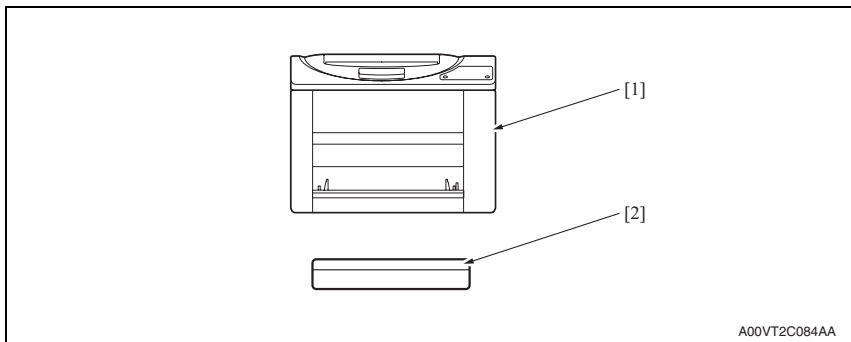
## Appendix

20.	Parts layout drawing.....	179
20.1	Main unit.....	179
20.2	Lower Feeder Unit (option).....	183
20.3	Duplex Option (option).....	184
21.	Connector layout drawing .....	185
22.	Timing chart .....	186

# General

## 1. System configuration

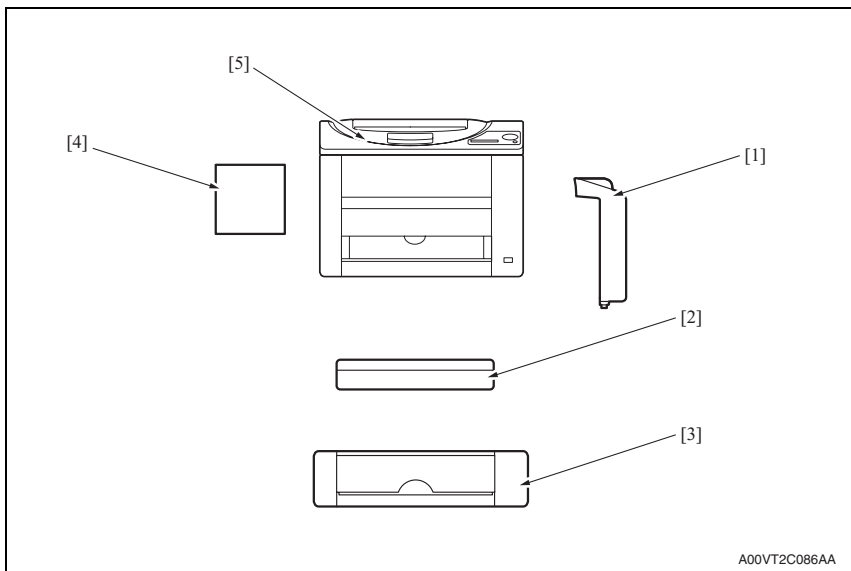
### A. magicolor 2500W



[1] Main unit

[2] Dust cover

### B. magicolor 2530 DL/magicolor 2550/magicolor 2550DN



[1] Duplex Option \*

[4] Hard Disk Kit \*\*

[2] Dust Cover

[5] Main Unit

[3] Lower Feeder Unit

\*: Option only of magicolor 2530 DL/magicolor 2550

\*\*: Option only of magicolor 2550/magicolor 2550DN

2. Product specifications

A. Type

Type	Desktop full-color laser beam printer	
Printing system	Semiconductor laser and electrostatic image transfer to plain paper	
Exposure system	2 laser diodes and polygon mirror	
Pc drum type	OPC (organic photo conductor)	
Photoconductor cleaning	Blade cleaning system	
Resolution	magicolor 2500W/ magicolor 2530 DL	2400 dpi x 600 dpi, 1200 dpi x 600 dpi or 600 dpi x 600 dpi
	magicolor 2550/ magicolor 2550DN	600 dpi x 600 dpi x 4 bit or 600 dpi x 600 dpi x 1 bit
Media feeding system	magicolor 2500W	One-way system (Tray 1: 200 sheets)
	magicolor 2530 DL/ magicolor 2550/ magicolor 2550DN	One-way system (Tray 1: 200 sheets) * Expandable to a two-way system by adding an optional Lower Feeder Unit.
Developing system	Single-element developing system	
Charging system	DC comb electrode Scorotron system	
Image transfer system	Intermediate transfer belt system	
Media separating system	Curvature separation + Charge-neutralizing system	
Fusing system	Roller fusing	
Media exit system	Face down (Output Tray capacity: 200 sheets)	

**B. Functions**

Warm-up time (at ambient temperature of 23°C/73.4°F and rated source voltage)	magicolor 2500W/ magicolor 2530 DL	110 V/120 V area	Average 45 seconds
		220 V to 240 V area	Average 49 seconds
	magicolor 2550/ magicolor 2550DN	110 V/120 V area	Average 52 seconds
		220 V to 240 V area	Average 55 seconds
Process speed	Plain paper	126.78 mm/second	
	Thick stock	63.39 mm/second	
	OHP film	42.26 mm/second	
First-Page-Out Time (Plain paper)	magicolor 2500W	Full color	1-sided: 23 seconds
		Monochrome	1-sided: 14 seconds
	magicolor 2530 DL	Full color	1-sided: 21 seconds 2-sided: 33 seconds
		Monochrome	1-sided: 12 seconds 2-sided: 24 seconds
	magicolor 2550/ magicolor 2550DN	Full color	1-sided: 22 seconds 2-sided: 35 seconds
		Monochrome	1-sided: 13 seconds 2-sided: 26 seconds
Print speed (Plain paper)	magicolor 2500W	Full color	1-sided: 5 pages/minute
		Monochrome	1-sided: 20 pages/minute
	magicolor 2530 DL/ magicolor 2550/ magicolor 2550DN	Full color	1-sided: 5 pages/minute 2-sided: 5 pages/minute
		Monochrome	1-sided: 20 pages/minute 2-sided: 11.4 pages/minute
Custom media sizes	Media width: 92 to 216 mm (3.6" to 8.5")		
	Media length: 148 to 356 mm (5.9" to 14")		
Media types	<ul style="list-style-type: none"><li>• Plain Paper (60 to 90 g/m<sup>2</sup> / 16 to 24 lb)</li><li>• Transparencies</li><li>• Thick stock (91 to 163 g/m<sup>2</sup> / 25 to 40 lb)</li><li>• Postcards</li><li>• Envelopes</li><li>• Letterhead</li><li>• Label stock</li><li>• Glossy stock</li></ul>		
Tray capacities	Plain paper and letterhead		:200 sheets
	Transparencies, thick stock, postcards, labels stock, and glossy stock		:50 sheets
	Envelopes		:10 sheets
Hard Disk	Option (magicolor 2550/magicolor 2550DN only) 40 GB		

Lower Feeder Unit: Only plain paper and recycled paper weighing 60 to 90 g/m<sup>2</sup> (16 to 24 lb) can be loaded.

Duplex Option: Only plain paper and recycled paper weighing 60 to 90 g/m<sup>2</sup> (16 to 24 lb) can be fed through the unit.

[For details, see the service manual for each option.](#)

**C. Maintenance**

Machine Durability	200,000 prints or 5 years, whichever comes first
--------------------	--

**D. Machine specifications**

Power requirements	voltage:	AC 110 to 127 V AC 220 to 240 V
	Frequency:	50/60 Hz $\pm$ 3 Hz
Max power consumption	1100 W	
Dimensions	430 mm (W) x 395 mm (D) x 349 mm (H) 16.9 inch (W) x 15.6 inch (D) x 13.7 inch (H)	
Weight	Approximately 20.4 kg (44.9 lb) (including the Dust Cover)	
Operating noise	During standby : 35 dB (A) or less During printing : 52 dB (A) or less	

**E. Operating environment**

Temperature	10° to 35° C / 50° to 95° F (with a fluctuation of 10° C / 18° F or less per hour)
Humidity	15% to 85% (with a fluctuation of 20% or less per hour)

**F. Controller****(1) magicolor 2500W**

CPU	Original ASIC
Standard memory	32 MB
Interface	USB 2.0 compliant
Printer language	GDI
OS compatibility	Windows 98SE, Me, 2000, XP and 2003 Server

**(2) magicolor 2530 DL**

CPU	TAK pro800 130MHz
Standard memory	64 MB
Interfaces	USB 2.0 compliant, 10Base-T/100Base-TX (IEEE 802.3) Ethernet, Camera direct print port
Printer language	PageScope Raster Language (GDI)
OS compatibility	Windows 98SE/NT4.0/Me/2000/Server 2003/XP, Mac OS X10.2 or later, Linux Red Hat 8.0 or later/SuSE 8.1 or later

(3) magicolor 2550/magicolor 2550DN

CPU	freescale MPC8220i (300 MHz)
Standard memory	128 MB: magicolor 2550 256 MB: magicolor 2550DN
Interfaces	USB 2.0 compliant, 10Base-T/ 100Base-TX (IEEE 802.3) Ethernet, Parallel, Camera direct print port (magicolor 2550DN only)
Printer language	PostScript 3 / PCL 6
OS compatibility	Windows 98SE/Me/NT4.0 (SP6 or later)/2000 (SP4 or later)/XP (SP1 or later)/ Server 2003 Mac OS 9 (9.1 or later)/Mac OS X (10.2 or later) Mac OS X Server (10.2 or later) RedHat Linux 9.0.1, SuSE Linux 8.2

NOTE

- These specifications are subject to change without notice.

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

General

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# Maintenance

## 3. Periodic check

### 3.1 Maintenance items

#### 3.1.1 Parts to be replaced by users (CRUs)

No	Classification	Part name	Number of prints	Clean	Replace	Description
1	Processing section	Toner cartridge (Y/M/C) *1	1,500		●	
		Toner cartridge (Y/M/C/K) *2	4,500		●	
2		Drum cartridge	Monochrome 45,000 (MP *3)		●	
			Monochrome 10,000 (1P/J *4)			
			Full Color 11,250 (MP *3)			
			Full Color 7,500 (1P/J *4)			
3		PH window	When a malfunction occurs	●		
4	Tray1 media pick-up section	Pick-up roller	When a malfunction occurs	●		

- \*1 : Four (Y,M,C,K) toner cartridges are set into a machine destined only for North America.
- \*2 : The toner cartridges shipped with the magicolor 2500W/magicolor 2530 DL have a life expectancy of 1,500 printed pages.  
The toner cartridges shipped with the magicolor 2550/magicolor 2550DN have a life expectancy of 4,500 printed pages.
- \*3 : Continuous printing
- \*4 : 1 page/job

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

Maintenance



magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

Maintenance

3.1.2      **Parts to be replaced by service engineers (FRUs)**

No	Classification	Part name	Number of prints	Clean	Replace	Description
1	Image transfer section	Transfer belt unit	Monochrome 135,000 (MP <sup>*1</sup> )		●	
			Monochrome 45,000 (1P/J <sup>*2</sup> )			
			Full color 33,700 (MP <sup>*1</sup> )			
			Full color 22,500 (1P/J <sup>*2</sup> )			
			Standard mode <sup>*3</sup> 36,800			
2		2nd transfer roller	120,000		●	
3	Fusing section	Fusing unit	120,000		●	

\*1 : Continuous printing  
\*2 : 1 page/job  
\*3 : Printed under the following conditions;  
monochrome = 3 pages/job; color = 2 pages/job; monochrome-to-color ratio = 2/3

3.2 Maintenance parts

- To ensure that the machine produces good prints and to extend its service life, it is recommended that the maintenance jobs described in this schedule be carried out as instructed.
- Replace with reference to the numeric values displayed on the Life Counter.
- Maintenance conditions are based on A4S or LetterS, Standard mode, and Preheat OFF.

No	Classifi- cation	Part name	Quantity	Actual durable cycle	Description	Ref. page in this manual
1		Standard-Capacity Toner cartridge (Y/M/C) <sup>*1</sup>	1	1,500		P.13
		High-Capacity Toner cartridge (Y/M/C/K) <sup>*2</sup>	1	4,500		
2	Processing section	Drum cartridge	1	Monochrome 45,000 (MP <sup>*3</sup> )		P.17
				Monochrome 10,000 (1P/J <sup>*4</sup> )		
				Full Color 11,250 (MP <sup>*3</sup> )		
				Full Color 7,500 (1P/J <sup>*4</sup> )		
3	Image transfer section	Transfer belt unit	1	Monochrome 135,000 (MP <sup>*3</sup> )		P.19
				Monochrome 45,000 (1P/J <sup>*4</sup> )		
				Full Color 33,700 (MP <sup>*3</sup> )		
				Full Color 22,500 (1P/J <sup>*4</sup> )		
				Standard Mode <sup>*5</sup> 36,800		
4		2nd transfer roller	1	120,000		P.18
5	Fusing section	Fusing unit	1	120,000		P.20

- \*1 : Four (Y,M,C,K) toner cartridges are set into a machine destined only for North America.
- \*2 : The toner cartridges shipped with the magicolor 2500W/magicolor 2530 DL have a life expectancy of 1,500 printed pages.  
The toner cartridges shipped with the magicolor 2550/magicolor 2550DN have a life expectancy of 4,500 printed pages.
- \*3 : Continuous printing
- \*4 : 1 page/job
- \*5 : Printed under the following conditions;  
monochrome = 3 pages/job; color = 2 pages/job; monochrome-to-color ratio = 2/3

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

Maintenance

### 3.3 Concept of parts life

	Description	Near Life Value	Life Value
Drum cartridge	The period of time during which the Main Motor is energized is counted.	36,000 prints	45,000 prints
Fusing unit	The number of printed pages is counted.	-	120,000 prints
2nd transfer roller	The number of printed pages is counted.	-	120,000 prints
Transfer belt unit	The period of time during which the Main Motor is rotated and the number of printed pages are both counted.	-	135,000 prints
Toner cartridge C,M,Y,K *	The number of printed pages compared with the dot counter value, whichever reaches the life specifications value, is detected.	1,200 prints	1,500 prints * <sup>1</sup>
		3,600 prints	4,500 prints * <sup>2</sup>

\*1: Standard-Capacity toner cartridges (Y,M,C), High-Capacity toner cartridges (Y,M,C,K).

\*2: In the Status Display menu you can specify whether to continue or stop printing when there is a toner empty condition.

#### A. Conditions for life specifications values

- The life specification values represent the number of pages printed or figures equivalent to it when the given conditions (see the table below) are met. They may be more or less depending on the machine operating conditions of each individual user.

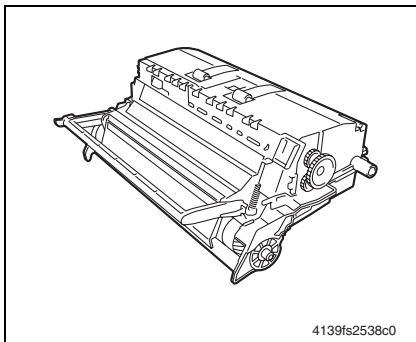
Item	Description
Print condition	Monochrome: 3 consecutive prints; color: 2 consecutive prints
Media size	A4S or LetterS
Color ratio	Black to Color = 2 to 3
Image density	C/W ratio = 5% for each color

### 3.4 Maintenance procedure (Periodic parts check)

#### NOTE

- The alcohol referred to in the following procedures is isopropyl alcohol.

#### 3.4.1 Pick-up roller



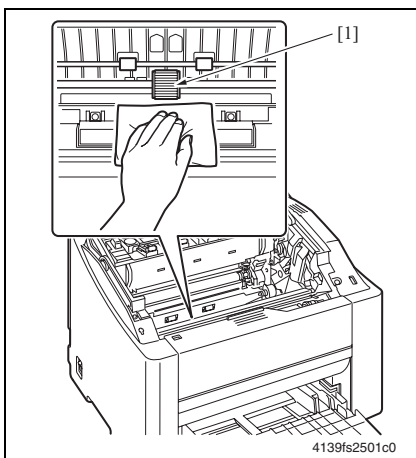
#### A. Cleaning procedure

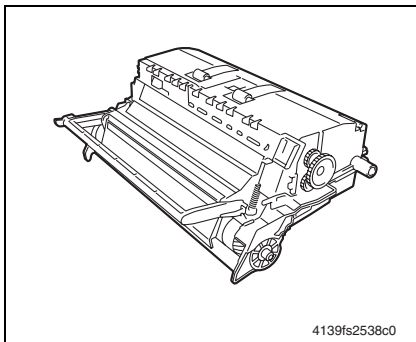
1. Open the top cover.
2. Remove the drum cartridge.

See P.17

#### NOTE

- Position the removed drum cartridge as shown in the illustration at the left.
  - Be sure to keep the drum cartridge horizontal and place it where it will not become dirty.
  - Do not leave the drum cartridge removed for more than 15 minutes, and do not place the removed drum cartridge in a location where it will be exposed to direct light (such as sunlight).
3. Using a soft cloth dampened with alcohol, wipe the pick-up roller [1] clean of dirt.



**B. Removal procedure**

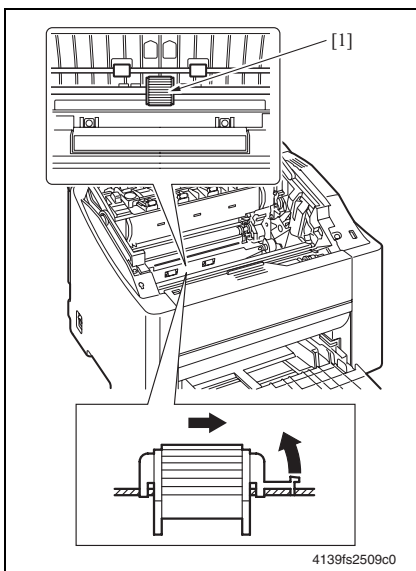
1. Open the top cover.
2. Remove the drum cartridge.

[See P.17](#)

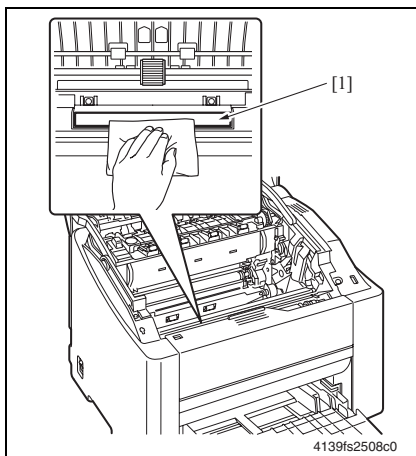
**NOTE**

- Position the removed drum cartridge as shown in the illustration at the left.
- Be sure to keep the drum cartridge horizontal and place it where it will not become dirty.
- Do not leave the drum cartridge removed for more than 15 minutes, and do not place the removed drum cartridge in a location where it will be exposed to direct light (such as sunlight).

3. Remove the pick-up roller [1].



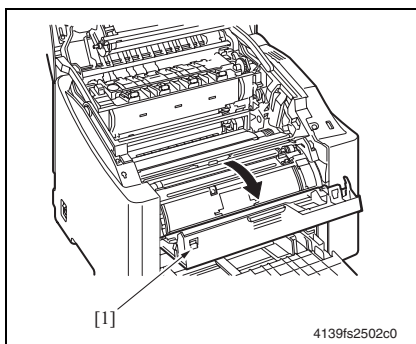
### 3.4.2 PH window



#### A. Cleaning procedure

1. Open the top cover.
  2. Remove the drum cartridge.
- See P.17
3. Using a soft cloth dampened with alcohol, wipe the PH window [1] clean of dirt.

### 3.4.3 Toner Cartridge (C/M/Y/K)



#### A. Removal procedure

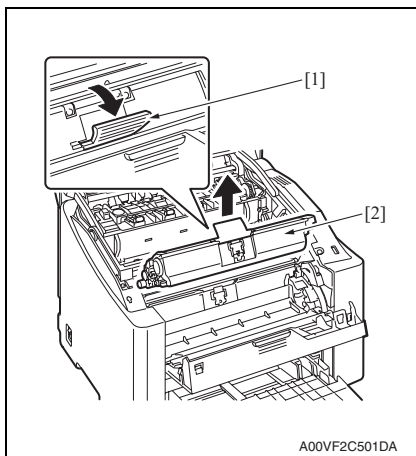
##### (1) magicolor 2500W

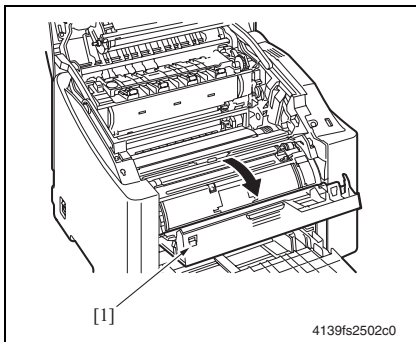
1. Check the color of the toner cartridge to be replaced on the control panel.
2. Press the Rotate Toner key and select the color of the toner cartridge to be replaced.
3. Open the top cover.
4. Open the front cover [1] and make sure that the specific toner cartridge to be replaced is in the front.
5. Hold onto the handle [1] of the toner cartridge, pull it and remove the toner cartridge [2].

#### NOTE

- When all four toner cartridges need to be removed manually, select the "Toner cartridge removal mode" in the service mode.

See P.123



**(2) magicolor 2530 DL**

1. Check the color of the toner cartridge to be replaced on the control panel.
2. Select [ENGINE] → [REPLACE TONER] from the menu and select the toner cartridge of the specific color of toner to be replaced.

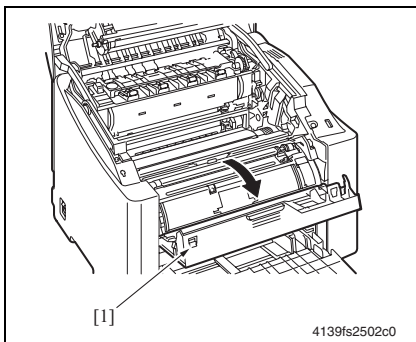
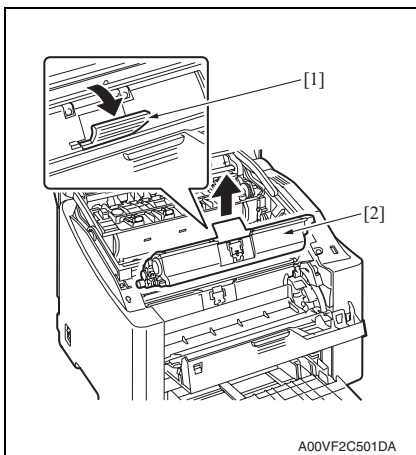
See P.87

3. Open the top cover.
4. Open the front cover [1] and make sure that the specific toner cartridge to be replaced is in the front.
5. Hold onto the handle [1] of the toner cartridge, pull it and remove the toner cartridge [2].

**NOTE**

- When all four toner cartridges need to be removed manually, select [ENGINE] → [ENGINE SERVICE] → [REMOVE ALL TONER].

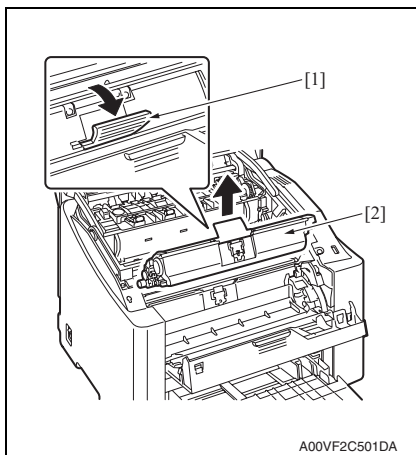
See P.89

**(3) magicolor 2550/magicolor 2550DN**

1. Check the color of the toner cartridge to be replaced on the control panel.
2. Select [QUALITY MENU] → [REPLACE TONER] from the menu and select the toner cartridge of the specific color of toner to be replaced.

See P.109

3. Open the top cover.
4. Open the front cover [1] and make sure that the specific toner cartridge to be replaced is in the front.

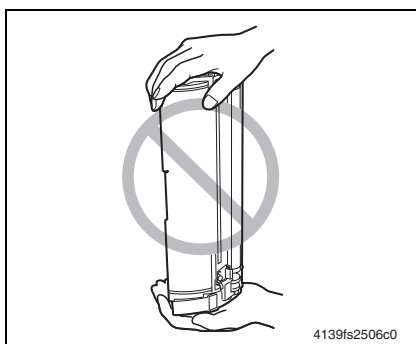


5. Hold onto the handle [1] of the toner cartridge, pull it and remove the toner cartridge [2].

#### NOTE

- When all toner cartridges need to be removed and replaced manually, select [SERVICE MENU] → [SRU] → [REMOVE ALL].

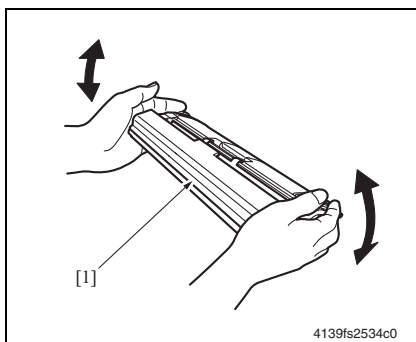
See P.130



#### B. Reinstallation procedure

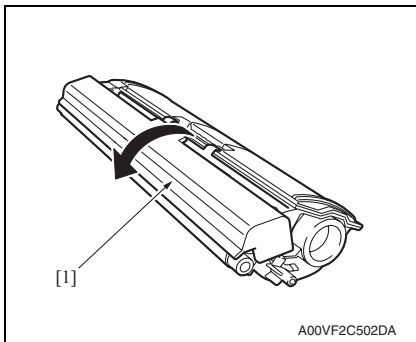
##### NOTE

- Do not let the toner cartridge stand upright or keep it in that upright position.

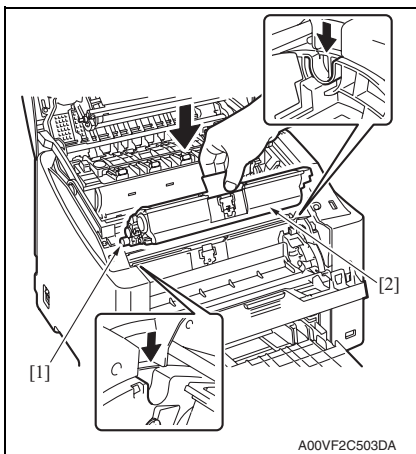


1. Prepare a new toner cartridge.
2. Shake the toner cartridge [1] a few times to distribute the toner.

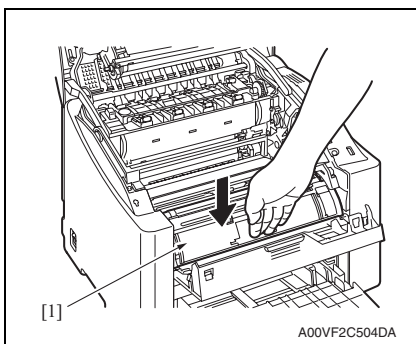




3. Remove the protective cover [1].

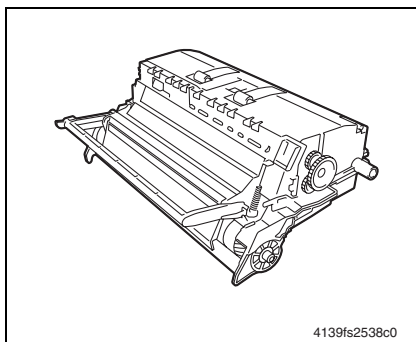
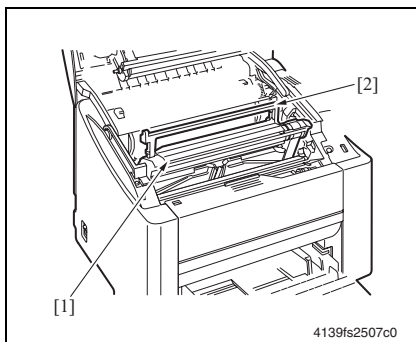


4. Aligning the shaft [1] on both sides of the toner cartridge with the rails in the machine, install the toner cartridge [2].



5. Press down on the toner cartridge [1] until it snaps into place.
6. Close the front cover.
7. Close the top cover.
8. Press Cancel key.

### 3.4.4 Drum cartridge



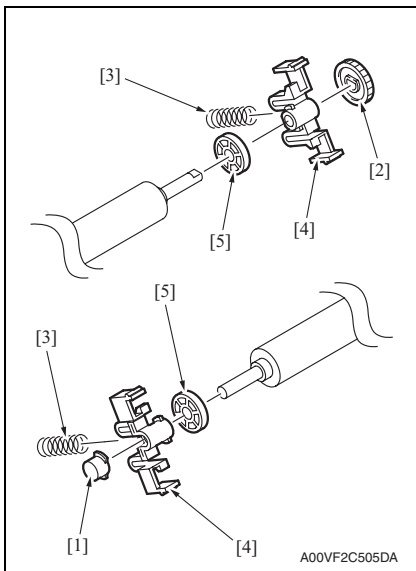
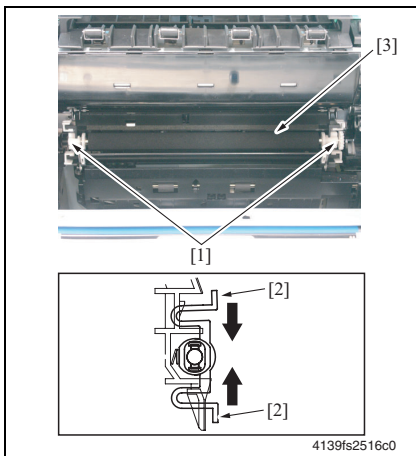
#### A. Replacement procedure

1. Open the top cover.
2. Hold onto the handle [2] of the drum cartridge [1] and slowly lift the drum cartridge out of the machine.

#### NOTE

- Position the removed drum cartridge as shown in the illustration at the left.
  - Be sure to keep the drum cartridge horizontal and place it where it will not become dirty.
  - Do not leave the drum cartridge removed for more than 15 minutes, and do not place the removed drum cartridge in a location where it will be exposed to direct light (such as sunlight).
3. To reinstall, reverse the order of removal.

### 3.4.5 2nd transfer roller



#### A. Replacement procedure

1. Open the top cover.
2. Remove the drum cartridge.

See P.17

3. Remove the 2nd transfer roller assy [3] as follows. While pushing the levers [2] of the holders [1] located on both sides, pull the holders [1] to the front.

#### NOTE

- Use care not to lose the two springs of the 2nd transfer roller assy. They can easily come off.

4. Remove the conductive material [1], gear [2], two springs [3], two holders [4], and two collars [5].
5. To reinstall, reverse the order of removal.

#### NOTE

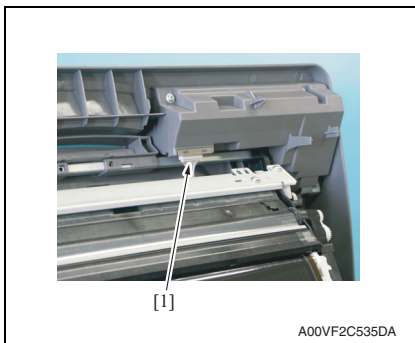
- When the 2nd transfer roller is replaced with a new one, it is necessary to reset the maintenance counter.

For magicolor 2500W: See P.77

For magicolor 2530 DL: See P.128

For magicolor 2550/magicolor 2550DN: See P.130

### 3.4.6 Transfer belt unit

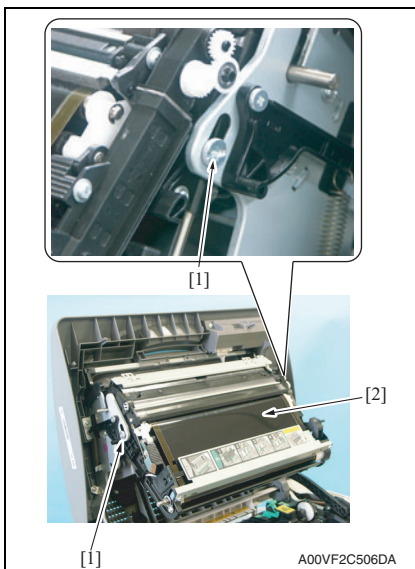


#### A. Replacement procedure

1. Open the top cover.
2. Disconnect the connector [1].

#### Precaution for reconnecting the connector

- Make sure that the connector is connected in the correct direction.



3. Remove two shoulder screws [1] and then remove the transfer belt unit [2].

#### NOTE

- When replacing the transfer belt unit, use care not to touch the surface of the belt. A scratchy or dirty belt could result in image problems.
- 4. To reinstall, reverse the order of removal.

#### Precaution for replacing the transfer belt unit

- After replacing the transfer belt unit, from the Status Display menu, select [Printer] → [Power On Test] and execute image stabilization control function.

#### NOTE

- When the transfer belt unit is replaced with a new one, it is necessary to reset the maintenance counter.

For magicolor 2500W: See P.78

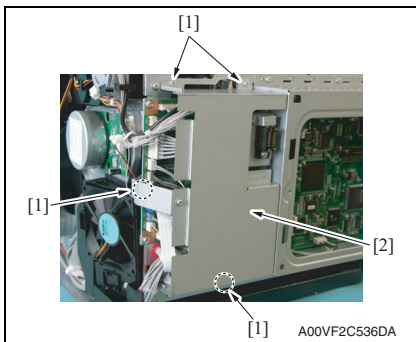
For magicolor 2530 DL: See P.128

For magicolor 2550/magicolor 2550DN: See P.130

### 3.4.7 Fusing unit

#### ⚠ CAUTION

- Before replacing the fusing unit, ensure that it has had time to cool down.



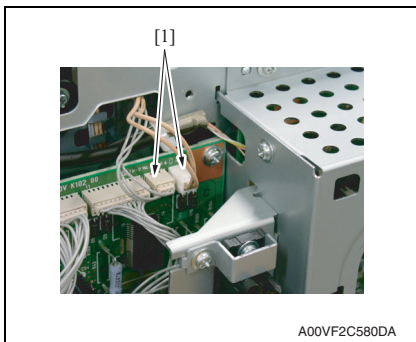
#### A. Replacement procedure

1. Remove the rear cover.  
[See P.31](#)
2. Remove the left cover.  
[See P.32](#)
3. Remove the right cover.  
[See P.33](#)
4. Remove four screws [1] and remove the printer control board protective shield [2].

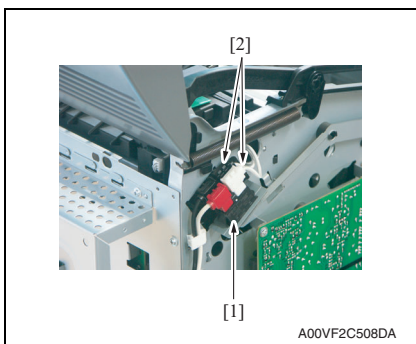
#### NOTE

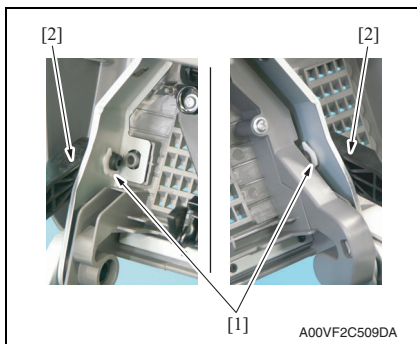
- Only the magicolor 2550/magicolor 2550DN requires removing the right cover and printer control board protective shield [2].

5. Disconnect two connectors (PJ6A, PJ7A) [1] from the printer control board.



6. Disconnect the two connectors [2] (black and white) of the fusing safety switch [1].

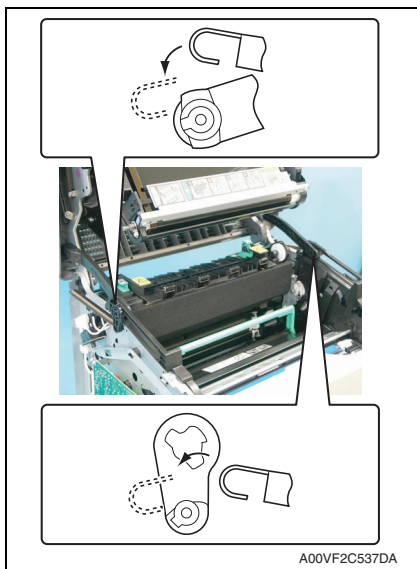




7. Remove the transfer belt unit.

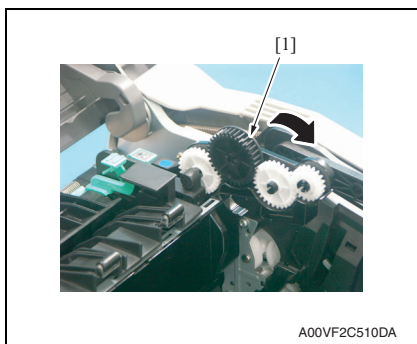
See P.19

8. Snap off two C-rings [1] of the upper cover [2] and unhook the two fulcrum pins of the upper cover.



#### NOTE

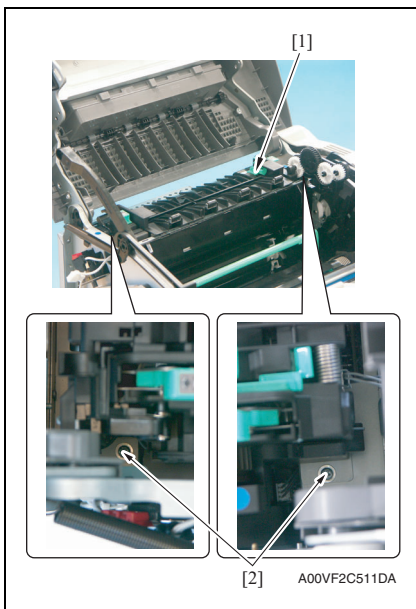
- When the fulcrum pins of the upper cover are unhooked, the springs of the upper cover can be unhooked. If the springs are unhooked, make sure to reinstall them in the correct direction. See the illustration on the left.



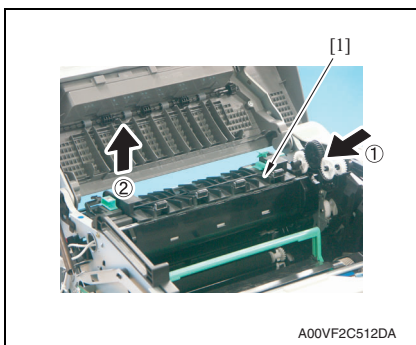
9. Swing open the fusing unit gear cover [1].

#### NOTE

- Only for magicolor 2530 DL, magicolor 2550 and magicolor 2550DN.



10. Remove two screws [2] from the fusing unit [1].



11. Remove the fusing unit [1].

12. To reinstall, reverse the order of removal.

#### Precaution for reinstalling the fusing unit

- Make sure that the docking gear shaft of the fusing unit fits in the hole of the fusing frame.
- When reinstalling the left cover after reinstalling the fusing unit, make sure that the harness of the fusing unit is located below the rib of the left cover.

See P.32

4. Firmware upgrade

4.1 Image processing board (IPB) firmware upgrading (magicolor 2530 DL)

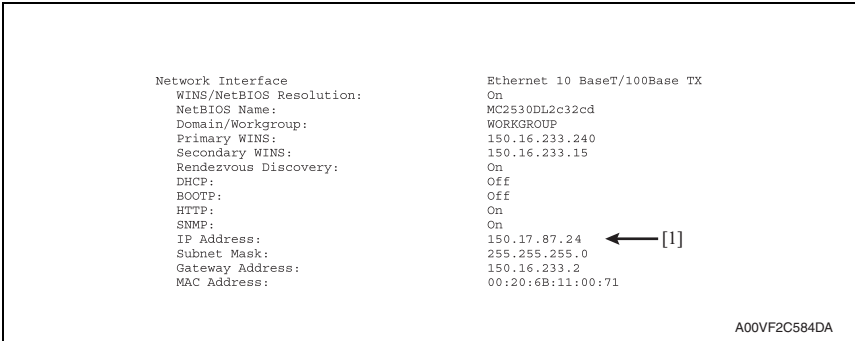
NOTE

- The following upgrading procedure applies only to the magicolor 2530 DL.

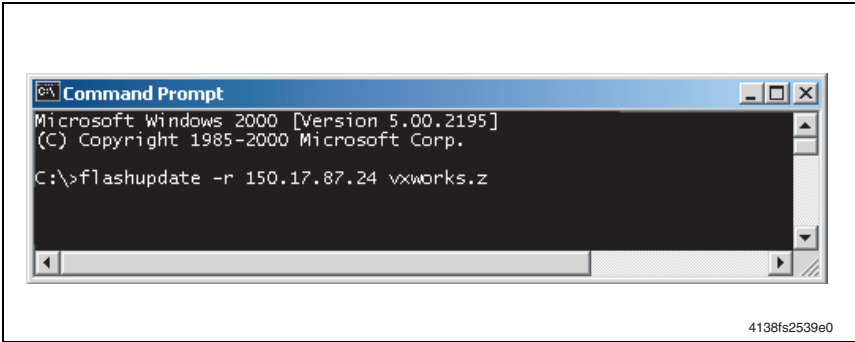
4.1.1 Upgrading procedure

1. Connect the machine to the PC using an Ethernet cable. (The printer should be ON.)
2. In the Menu, select [SPECIAL PAGES] → [PRINT CONFIG PAGE] and execute the function. Then, check the IP address [1] of the machine.

See P.86



3. Copy the firmware data and upgrading program to any directory on the PC.
4. Start the Command Prompt and go to the directory in which the firmware data is stored.
5. Execute the “flashupdate” command to start the transfer of firmware data.  
(The screen shown below indicates that the firmware data resides on the C drive.)

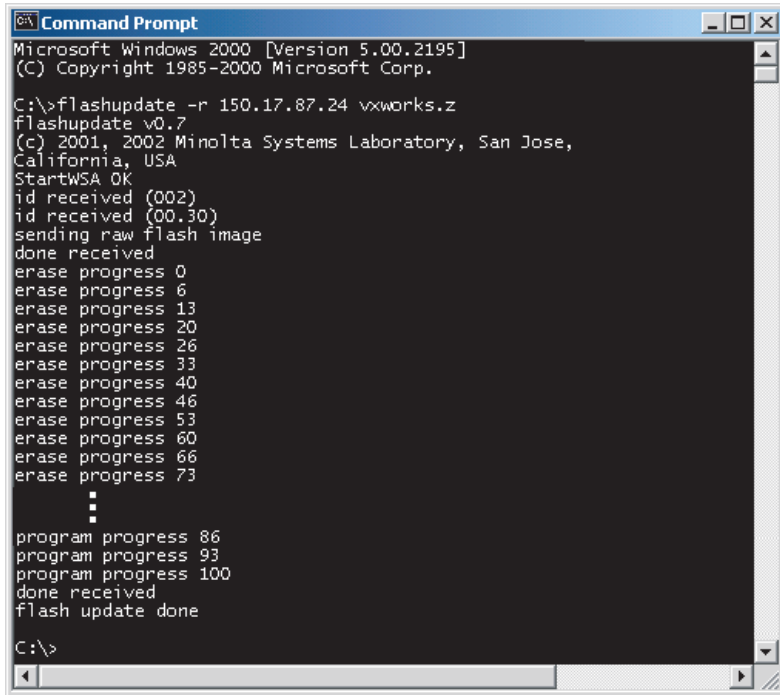


Data to be upgraded	Command
Application	flashupdate -r XXX.XXX.XXX.XXX *****.z
BOOT	flashupdate -b XXX.XXX.XXX.XXX *****.flt

XXX.XXX.XXX.XXX : IP address of the machine  
\*\*\*\*\* : Firmware data file name



6. Check with the Command Prompt display on the progress of upgrading procedure.



```
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

C:\>flashupdate -r 150.17.87.24 vxworks.z
flashupdate v0.7
(c) 2001, 2002 Minolta Systems Laboratory, San Jose,
California, USA
StartWSA OK
id received (002)
id received (00.30)
sending raw flash image
done received
erase progress 0
erase progress 6
erase progress 13
erase progress 20
erase progress 26
erase progress 33
erase progress 40
erase progress 46
erase progress 53
erase progress 60
erase progress 66
erase progress 73
:
:
program progress 86
program progress 93
program progress 100
done received
flash update done

C:\>
```

4138fs2540e0

**NOTE**

- **NEVER** turn OFF and ON the printer's power switch until the message "flash update done" appears on the Command Prompt display.

7. After the firmware upgrading procedure has been completed, turn the printer OFF and then ON again.
8. Check that the controller firmware version number has been upgraded.

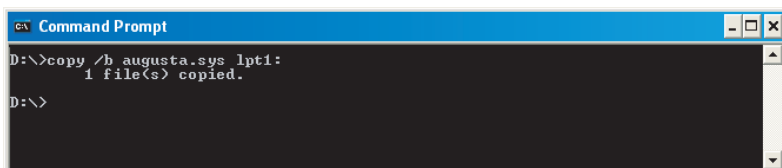
[See P.89](#)

## 4.2 Image processing board (IPB) firmware upgrading (magicolor 2550/magicolor 2550DN)

### 4.2.1 Upgrading procedure

#### A. Parallel connections

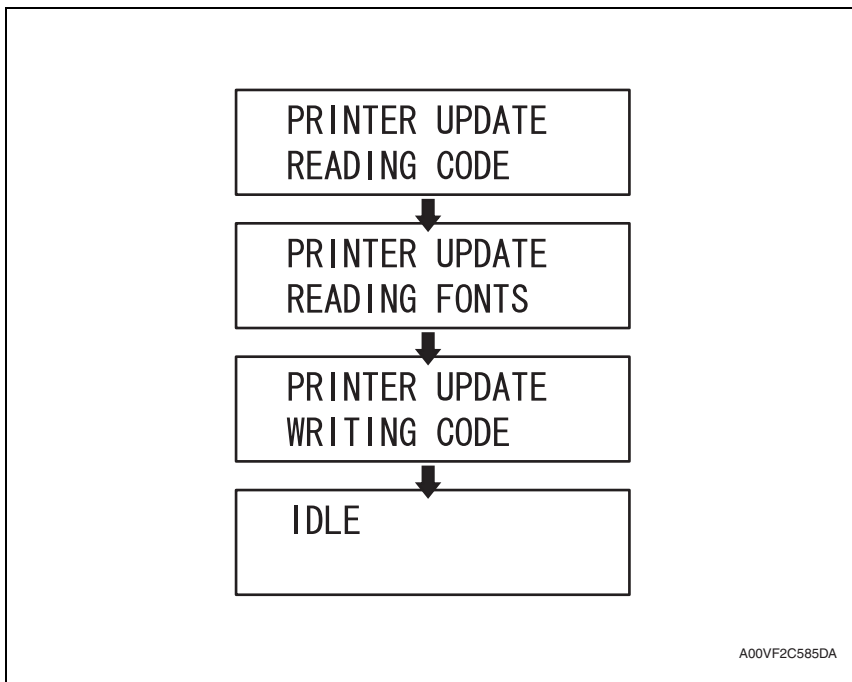
1. Connect the machine to the PC using an IEEE 1284 cable. (The printer should be OFF.)
2. Copy the firmware data (XXXXXX.sys) to any directory on the PC.
3. Holding down the Menu Select key and ▲ key on the control panel at the same time, turn ON the printer's power switch.
4. To select YES or NO for each of the items shown below, use the ◀ or ▶ key. Then press the Menu Select key.
  - [UPDATE PRINTER]: YES
  - [REPLACE CODE]: YES
  - [REPLACE ALL FONT]: NO
  - [REPLACE SYS FONT]: NO
  - [UPDATE NOW]: YES
5. Make sure that the message "SEND DATA NOW" appears on the control panel.
6. Start the Command Prompt and go to the directory in which the firmware data is stored.
7. Type "copy /b XXXXXX.sys lpt1:" and then press the Enter key (XXXXXX is the firmware data file name).



```
Command Prompt
D:\>copy /b augusta.sys lpt1:
        1 file(s) copied.
D:\>
```

4139F2E508DA

8. Check the message on the control panel and make sure that [IDLE] is displayed.

**NOTE**

**Do not turn the printer's power switch OFF while the firmware is upgrading.**

9. Print a Configuration Page ([PRINT MENU] → [CONFIGURATION]) and check the firmware version to verify the upgrade.

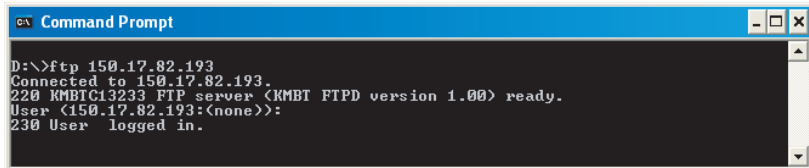
[See P.105](#)

**B. Network connections**

1. Connect the machine to the PC using an Ethernet cable.
2. In the Menu, select [PRINT MENU] → [CONFIGURATION] and execute the function. Then, check the IP address [1] of the machine.

See P.105

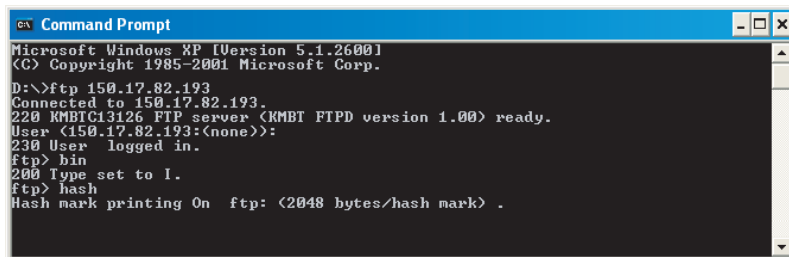
3. Copy the firmware data (XXXXX.ps) and upgrading program to any directory on the PC.
4. Start the Command Prompt and go to the directory in which the firmware data is stored.
5. Specify the IP address of the machine to start FTP.
6. Check the user name and then press the Enter key to go to the next step.



```
GA Command Prompt
D:\>ftp 150.17.82.193
Connected to 150.17.82.193.
220 KMBTC13233 FTP server (KMBT FTPD version 1.00) ready.
User (150.17.82.193:(none)):
230 User logged in.
```

4139F2E510DA

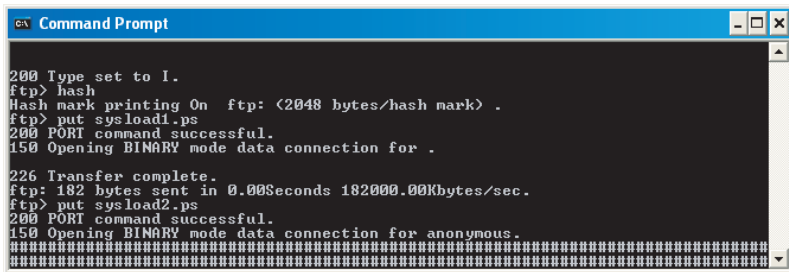
7. Using the "bin" command, set the file transfer mode to the binary transfer.
8. Type the hash command.



```
GA Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
D:\>ftp 150.17.82.193
Connected to 150.17.82.193.
220 KMBTC13126 FTP server (KMBT FTPD version 1.00) ready.
User (150.17.82.193:(none)):
230 User logged in.
ftp> bin
200 Type set to I.
ftp> hash
Hash mark printing On ftp: (2048 bytes/hash mark) .
```

4139F2E511DA

9. Type "put XXXXX.ps" and press the Enter key.  
If there are two or more firmware data files involved, repeat the same steps (XXXXXX is the firmware data file name).



```
C:\> Command Prompt

200 Type set to I.
ftp> hash
Hash mark printing On ftp: <2048 bytes/hash mark> .
ftp> put sysload1.ps
200 PORT command successful.
150 Opening BINARY mode data connection for .
226 Transfer complete.
ftp: 182 bytes sent in 0.00Seconds 182000.00Kbytes/sec.
ftp> put sysload2.ps
200 PORT command successful.
150 Opening BINARY mode data connection for anonymous.
#####
```

4139F2E512DA

**NOTE**

**Do not turn the printer's power switch OFF while the firmware is upgrading.**

10. After the firmware upgrading procedure has been completed, the printer should reboot automatically.
11. Print a Configuration Page ([PRINT MENU] → [CONFIGURATION]) and check the firm-ware version to verify the upgrade.

[See P.105](#)

## 5. Other

### 5.1 Disassembly/adjustment prohibited items

#### A. Black-painted screws

- Do not remove or loosen any of the black-painted screws in the field. Any of such screws that has been removed calls for readjustment at reinstallation.

#### B. Red-painted screws

- Do not remove or loosen any of the red-painted screws in the field. It should also be noted that, when two or more screws are used for a single part, only one representative screw may be marked with the red paint.

#### C. Variable Resistors on Board

##### NOTE

- Do not turn the variable resistors on boards for which no adjusting instructions are given in Adjustment/Setting.

#### D. Removal of PWBs

##### CAUTION

- When removing a circuit board or other electrical component, refer to “SAFETY AND IMPORTANT WARNING ITEMS” and follow the corresponding removal procedures.
- The removal procedures given in the following omit the removal of connectors and screws securing the circuit board support or circuit board.
- Where it is absolutely necessary to touch the ICs and other electrical components on the board, be sure to ground your body.

## 5.2 Disassembly/assembly list (other parts)

No	Section	Part name	Ref. Page
1	Exterior parts	Front cover	<a href="#">P.33</a>
2		Right cover	<a href="#">P.33</a>
3		Left cover	<a href="#">P.32</a>
4		Rear cover	<a href="#">P.31</a>
5		Rear panel <*1>	<a href="#">P.31</a>
6		Paper take-up cover	<a href="#">P.33</a>
7	Boards and etc.	Image processing board	<a href="#">P.36</a>
8		Printer control board	<a href="#">P.40</a>
9		DC power supply	<a href="#">P.43</a>
10		High voltage unit	<a href="#">P.46</a>
11		Control panel	<a href="#">P.34</a>
12		USB board <*2>	<a href="#">P.35</a>
13	Units	PH unit	<a href="#">P.47</a>
14		Paper pick-up unit	<a href="#">P.58</a>
15	Other parts	Main motor	<a href="#">P.59</a>
16		Developing motor	<a href="#">P.62</a>
17		Rack motor	<a href="#">P.63</a>
18		Power supply cooling fan motor	<a href="#">P.59</a>
19		Ventilation fan motor	<a href="#">P.61</a>
20		Fusing motor	<a href="#">P.61</a>
21		Tray1 paper pick-up solenoid	<a href="#">P.63</a>
22		Registration roller solenoid	<a href="#">P.64</a>
23		Pressure/retraction solenoid /cleaning blade	<a href="#">P.65</a>
24		Pressure/retraction solenoid /2nd image transfer	<a href="#">P.65</a>
25		Temperature/humidity sensor	<a href="#">P.65</a>
26		Separation pad	<a href="#">P.66</a>
27		IDC sensor	<a href="#">P.67</a>
28		Torque limiter	<a href="#">P.68</a>
29		Hard disk kit <*3>	<a href="#">P.69</a>

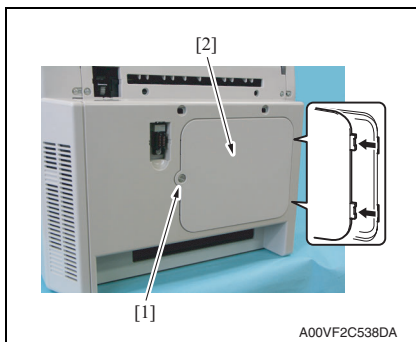
<\*1>: magicolor 2530 DL/magicolor 2550/magicolor 2550DN only

<\*2>: magicolor 2530 DL/magicolor 2550DN only

<\*3>: magicolor 2550/magicolor 2550DN only

## 5.3 Disassembly/assembly procedure

### 5.3.1 Rear panel

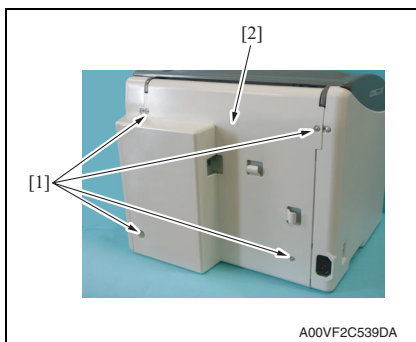


1. Remove the screw [1] and the rear panel [2].

#### NOTE

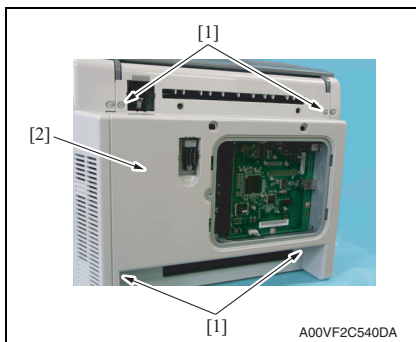
- Only for **magicolor 2530 DL**, **magicolor 2550** and **magicolor 2550DN**.

### 5.3.2 Rear cover



#### (1) **magicolor 2500W**

1. Remove four screws [1] and the rear cover [2].



#### (2) **magicolor 2530 DL/magicolor 2550/magicolor 2550DN**

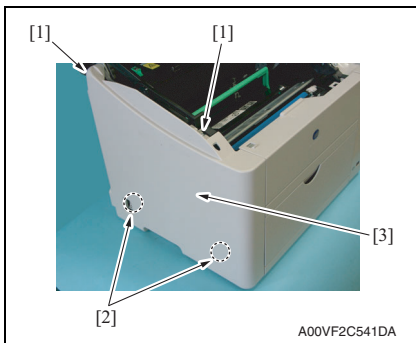
1. Remove the rear panel.

See P.31

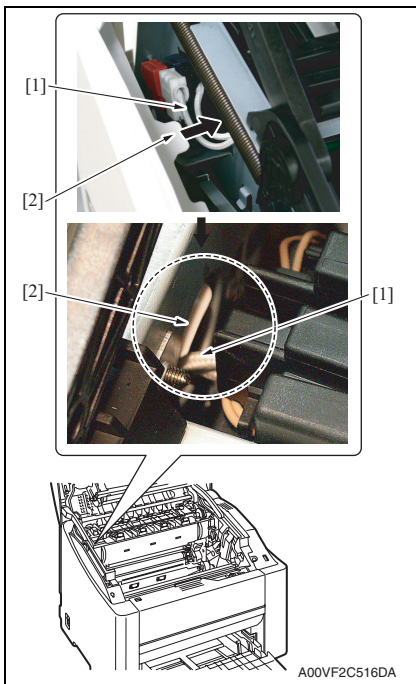
2. Remove four screws [1] and the rear cover [2].



## 5.3.3 Left cover



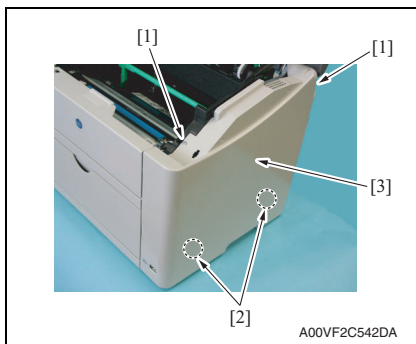
1. Open the top cover.
2. Remove two screws [1].
3. Unlock two tabs [2] and remove the left cover [3].



**CAUTION**

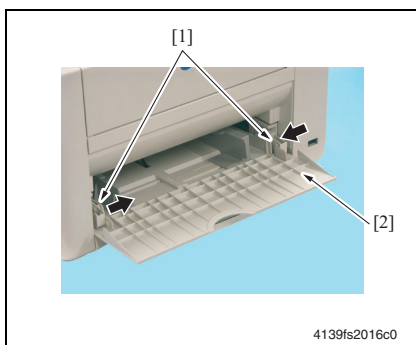
- When installing the left cover, make sure that the harness [1] of the fusing unit is located below the rib [2] of the left cover. And after installing the left cover, make sure that the harness [1] of the fusing unit is located below the rib [2] of the left cover at the location shown on the left.
- Use care not to break the tabs during removal and reinstallation of the left cover.

### 5.3.4 Right cover



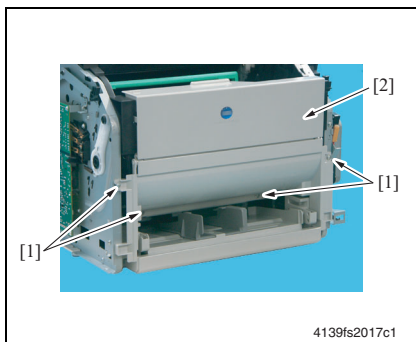
1. Open the top cover.
2. Remove two screws [1].
3. Unlock two tabs [2] and remove the right cover [3].

### 5.3.5 Paper take-up cover



1. Open the paper take-up cover.
2. Push in the right and left holders [1] and remove the paper take-up cover [2].

### 5.3.6 Front cover

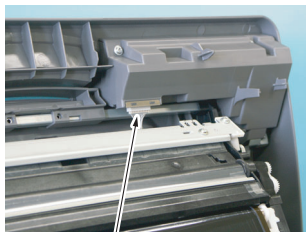


1. Open the top cover.
2. Remove the right cover.  
[See P.33](#)
3. Remove the left cover.  
[See P.32](#)
4. Remove the paper take-up cover.  
[See P.33](#)
5. Remove four screws [1] and the front cover [2].

#### NOTE

- When removing and reinstalling the front cover, use care not to touch the developing roller of the toner cartridge.

### 5.3.7 Control panel



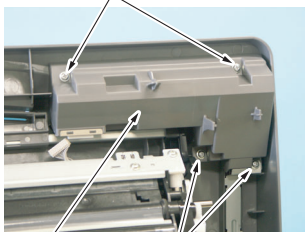
[1]

A00VF2C535DA

1. Open the top cover.
2. Disconnect the connector [1].

**Precaution for reconnecting the connector**

- **Make sure that the connector is connected in the correct direction.**

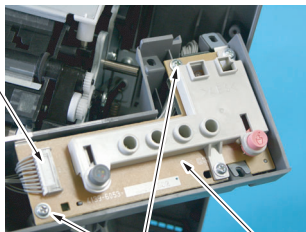


[2]

[1]

A00VF2C543DA

3. Remove four screws [1] and the control panel protective cover [2].



[2]

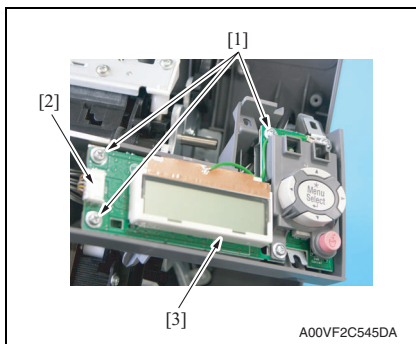
[1]

[3]

A00VF2C544DA

• **For magicolor 2500W**

4. Remove two screws [1] and disconnect the connector [2] and remove the control panel [3].



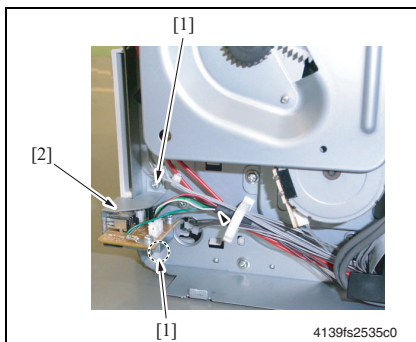
• **For magicolor 2530 DL/magicolor 2550/magicolor 2550DN**

4. Remove three screws [1] and disconnect the connector [2] and remove the control panel [3].

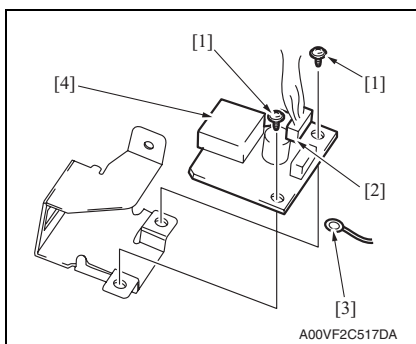
### 5.3.8 USB board (USB)

#### NOTE

- The USB board is mounted only on the magicolor 2530 DL and magicolor 2550DN.

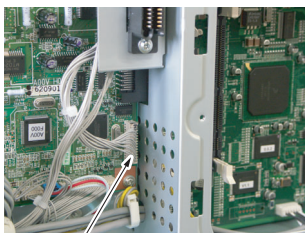


1. Remove the right cover.  
[See P.33](#)
2. Remove two screws [1] and the USB board assy [2].



3. Remove two screws [1], disconnect the connector [2], remove the earth cable [3], and remove the USB board [4].

### 5.3.9 Image processing board (IPB)



[1]

A00VF2C550DA

#### (1) magicolor 2530 DL

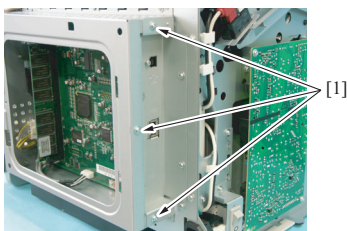
1. Remove the rear cover.

See P.31

2. Remove the left cover.

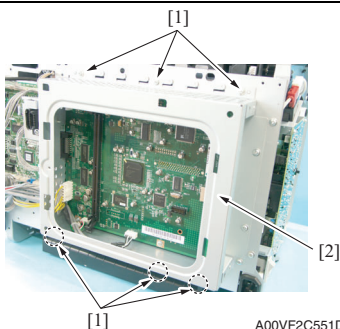
See P.32

3. Disconnect the connector (PJ21) [1].



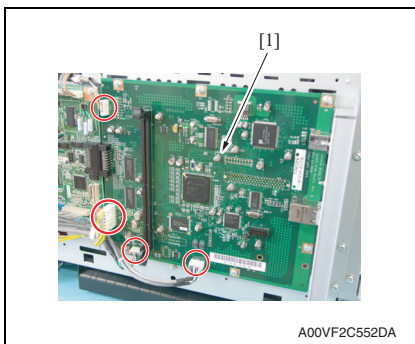
A00VF2C549DA

4. Remove three screws [1].

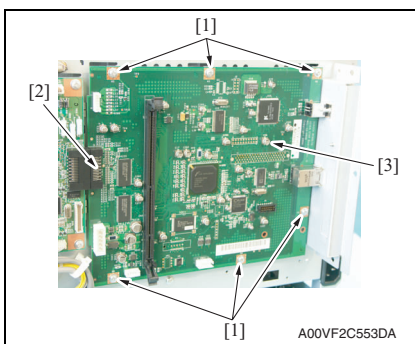


A00VF2C551DA

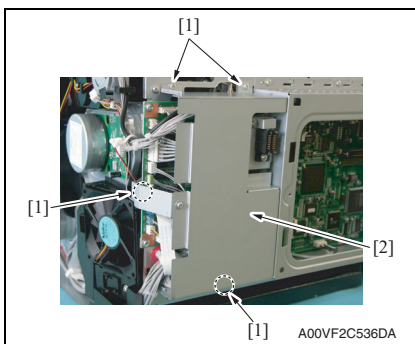
5. Remove six screws [1] and remove the image processing board protective shield [2].



6. Disconnect all connectors from the image processing board [1].

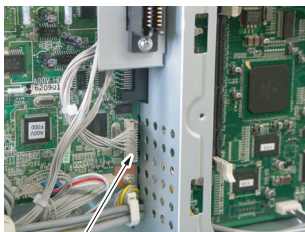


7. Remove six screws [1].
8. Disconnect the connector (CN10) [2] connected to the printer control board and remove the image processing board [3].



## (2) magicolor 2550/magicolor 2550DN

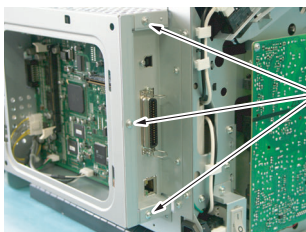
1. Remove the rear cover.  
[See P.31](#)
2. Remove the left cover.  
[See P.32](#)
3. Remove the right cover.  
[See P.33](#)
4. Remove four screws [1] and remove the printer control board protective shield [2].



[1]

A00VF2C550DA

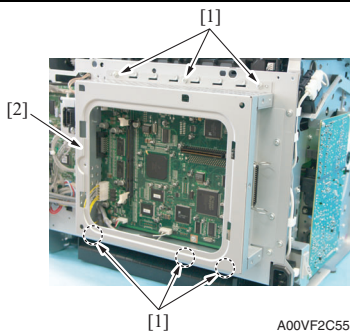
5. Disconnect the connector (PJ21) [1].



[1]

A00VF2C554DA

6. Remove three screws [1].



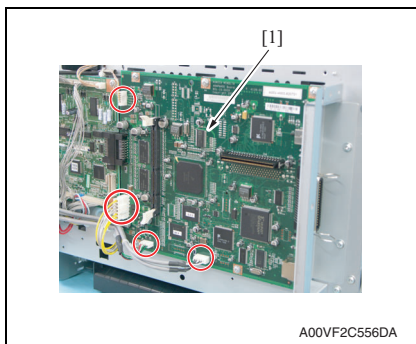
[1]

[2]

[1]

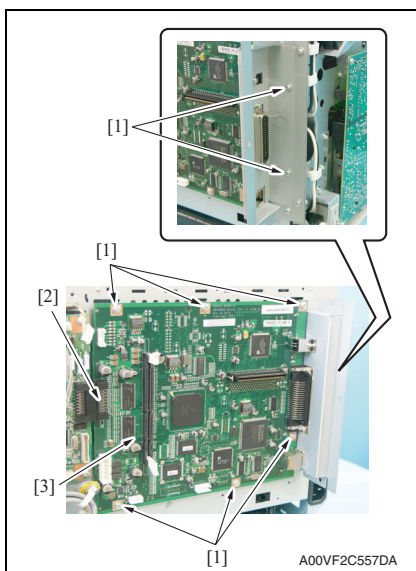
A00VF2C555DA

7. Remove six screws [1] and remove the image processing board protective shield [2].



A00VF2C556DA

8. Disconnect all connectors from the image processing board [1].

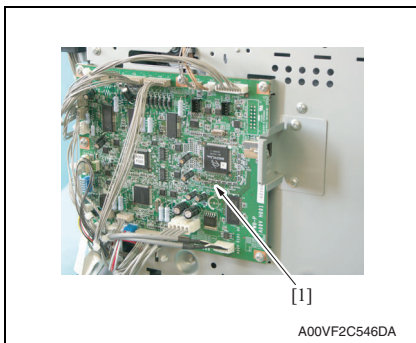


A00VF2C557DA

9. Remove eight screws [1].
10. Disconnect the connector (CN8) [2] connected to the printer control board and remove the image processing board [3].

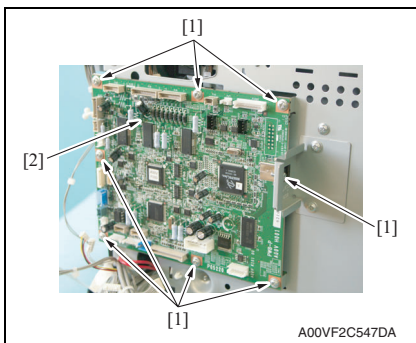


### 5.3.10 Printer control board (PRCB)



#### (1) magicolor 2500W

1. Remove the rear cover.  
[See P.31](#)
2. Remove the right cover.  
[See P.33](#)
3. Disconnect all connectors from the printer control board [1].

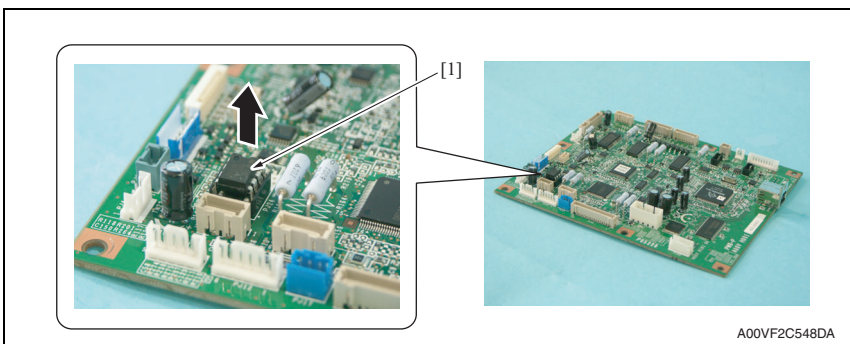


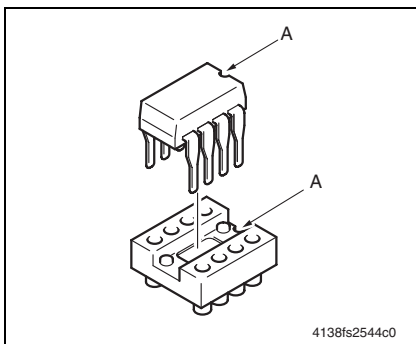
4. Remove eight screws [1] and remove the printer control board [2].

5. Remove parameter chip (PJ24) [1] from the printer control board.

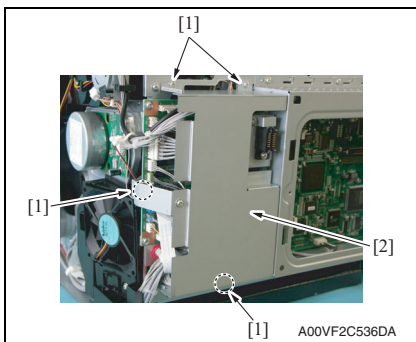
#### NOTE

- When the printer control board (PRCB) has been replaced, be sure to remount parameter chip (PJ24). Remove parameter chip (PJ24) from the old printer control board and mount it on the new printer control board.



**NOTE**

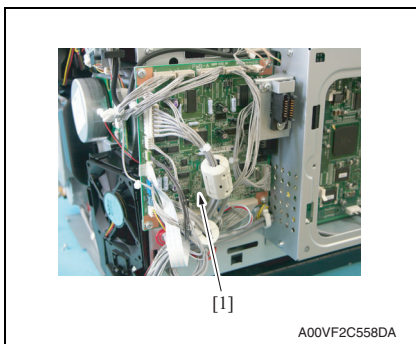
- When mounting parameter chip (PJ24), align the notches (indicated by "A" in the illustration).

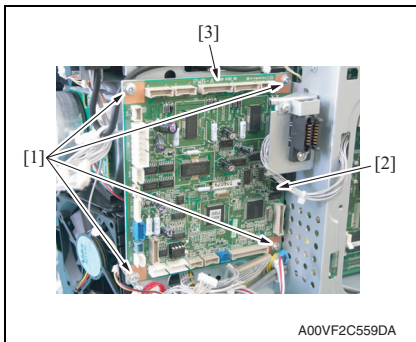
**(2) magicolor 2530 DL/magicolor 2550/magicolor 2550DN**

1. Remove the rear cover.
2. Remove the right cover.
3. Remove four screws [1] and remove the printer control board protective shield [2].

**NOTE**

- Only the magicolor 2550 and magicolor 2550DN requires removing the right cover and printer control board protective shield [2].



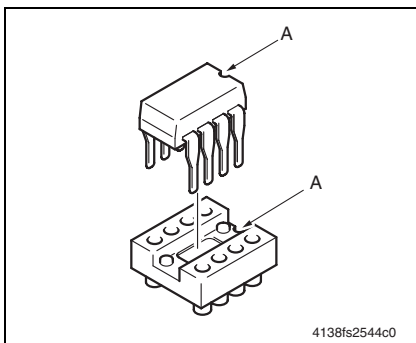
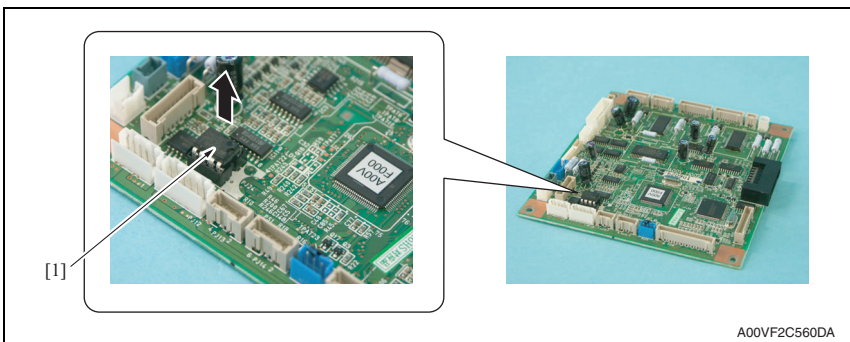


5. Remove four screws [1].
6. Disconnect the connector (PJ1) [2] connected to the image processing board and remove the printer control board [3].

7. Remove parameter chip (PJ24) [1] from the printer control board.

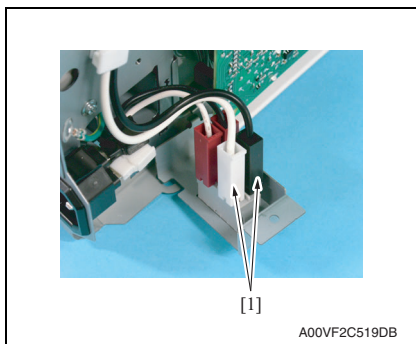
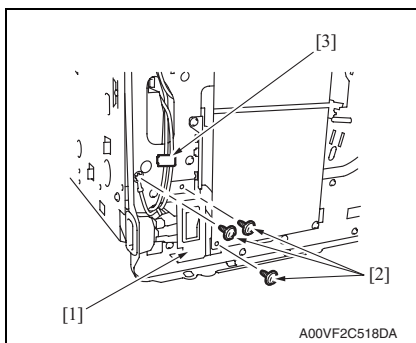
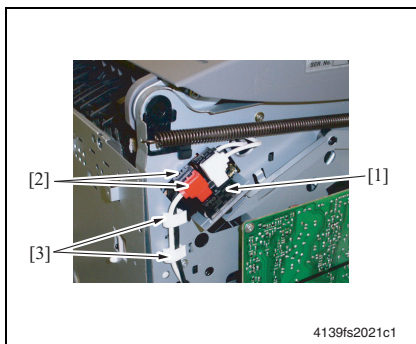
**NOTE**

- When the printer control board (PRCB) has been replaced, be sure to remount parameter chip (PJ24). Remove parameter chip (PJ24) from the old printer control board and mount it on the new printer control board.

**NOTE**

- When mounting parameter chip (PJ24), align the notches (indicated by "A" in the illustration).

### 5.3.11 DC power supply (DCPU)



1. Remove the printer control board.

See P.40

2. Remove the image processing board.

See P.36

#### NOTE

- Only the magicolor 2530 DL, magicolor 2550 and magicolor 2550DN requires removing the image processing board.

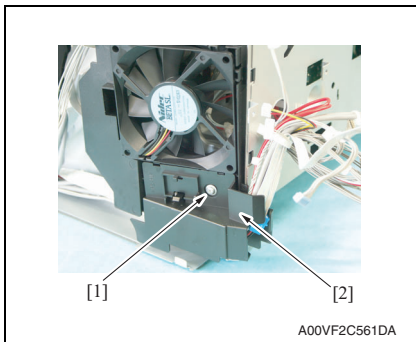
3. Disconnect the two connectors [2] (red and black) of the fusing safety switch [1] and remove the wire from the two wiring saddles [3].

4. Remove three screws [2] from the power switch assy [1] and remove the wire from the wiring saddle [3].

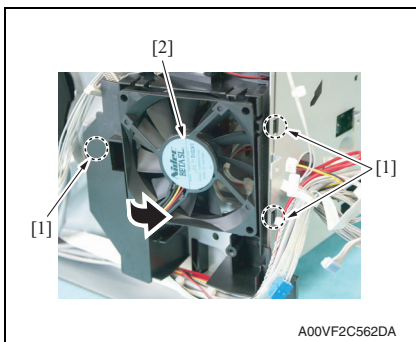
#### NOTE

- One of the two screws is used to secure the power switch assy to the high voltage unit.

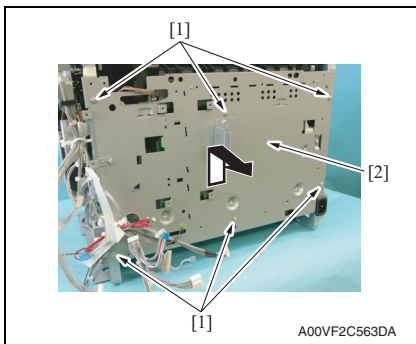
5. Disconnect two connectors [1] of the power switch.



6. Remove a screw [1] and remove the power supply cooling fan motor cover [2].



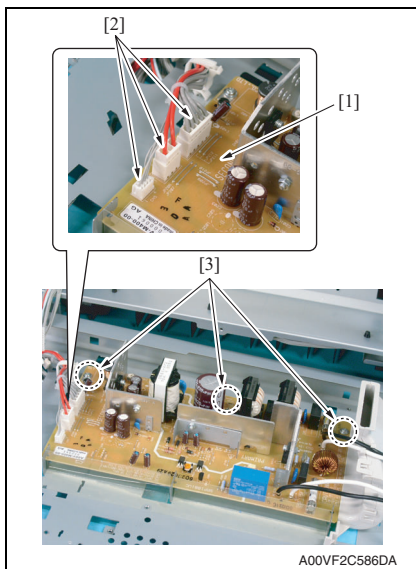
7. Unlock three tabs [1] and remove the power supply cooling fan motor assy [2].



8. Remove six screws [1] and pull the DC power supply assy [2] to the front as shown on the left.

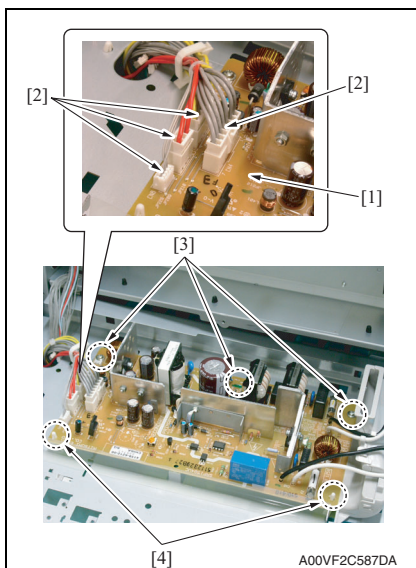
**CAUTION**

- Do not pull the DC power supply assy hard, as a number of harnesses are connected to it.



- **For magicolor 2500W**

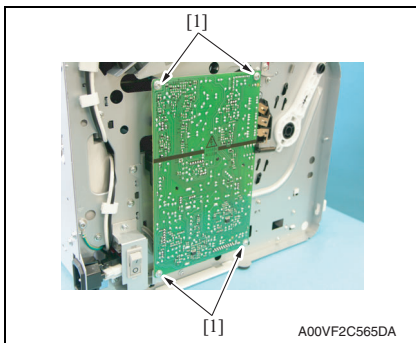
9. Disconnect three connectors [2] from the DC power supply [1].
10. Remove three screws [3] and the DC power supply [1].



- **For magicolor 2530 DL/magicolor 2550/magicolor 2550DN**

9. Disconnect four connectors [2] from the DC power supply [1].
10. Remove three screws [3], two PWBs holders [4] and the DC power supply [1].

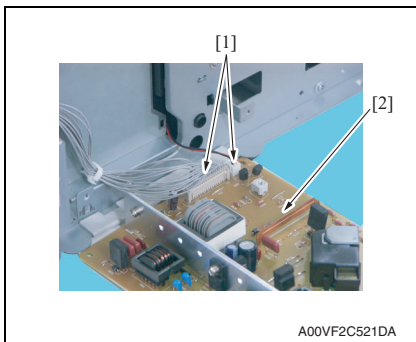
### 5.3.12 High voltage unit (HV)



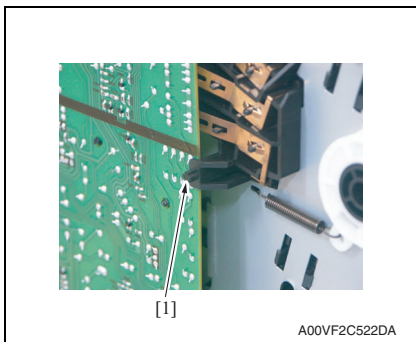
1. Remove the left cover.

[See P.32](#)

2. Remove four screws [1].



3. Disconnect two connectors [1] and remove the high voltage unit [2].



#### Precautions for reinstallation of the high voltage unit

- Make sure that the high voltage unit fits into the tab [1] at the location shown on the left.
- During the reinstallation procedure, make sure that the high voltage terminal is not deformed or left loose.

5.3.13 PH unit

<div><div>!</div><div>NOTE</div></div>	
<div>!</div>	<div><div>• Do not replace the PH unit while the machine is turned ON. The laser beam that may be emitted can blind you.</div></div>
<div><div>⊘</div></div>	<div><div>• Do not attempt to disassemble or adjust the PH unit. The laser beam that may be emitted can blind you.</div></div>

(1) magicolor 2500W

1. Remove the rear cover.

See P.31

2. Remove the right cover.

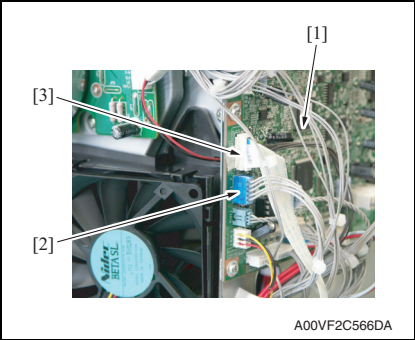
See P.33

3. Remove the left cover.

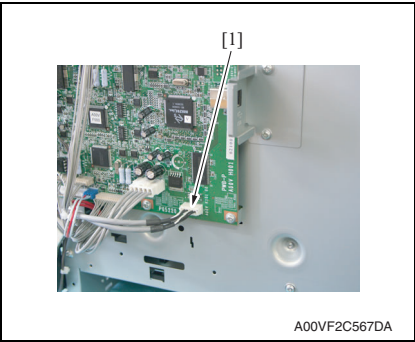
See P.32

4. Remove the front cover.

See P.33



5. Disconnect the connector (PJ20) [2] and the flat cable (PJ19) [3] from the printer control board [1].

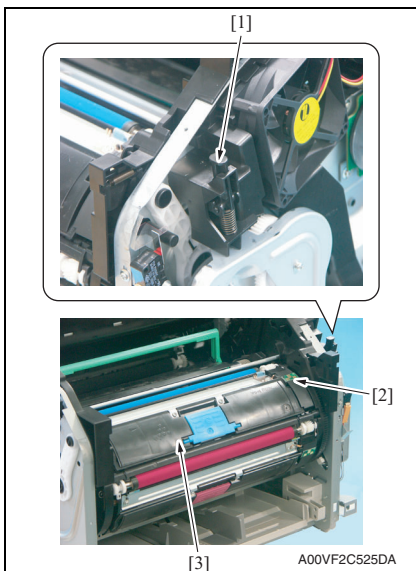


6. Disconnect the connector (PJ306) [1] from the printer control board.

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

Maintenance

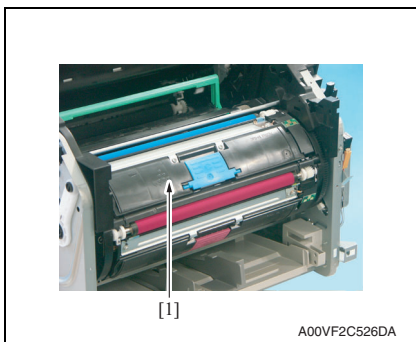




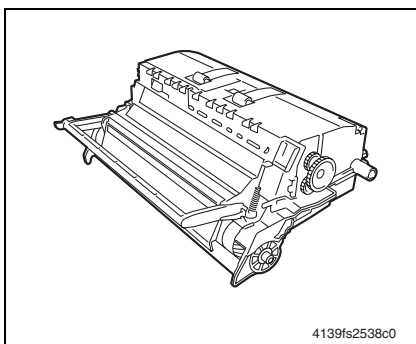
7. Press the rack release lever [1] and then rotate the rack [2] so that the toner cartridge [3] is moved to a position, at which the toner cartridge can be easily removed.

**NOTE**

- When rotating the rack, use care not to touch the developing roller.



8. Hold onto the handle, pull it and remove the toner cartridge [1].
9. Repeat steps 7 and 8 to remove all toner cartridges.

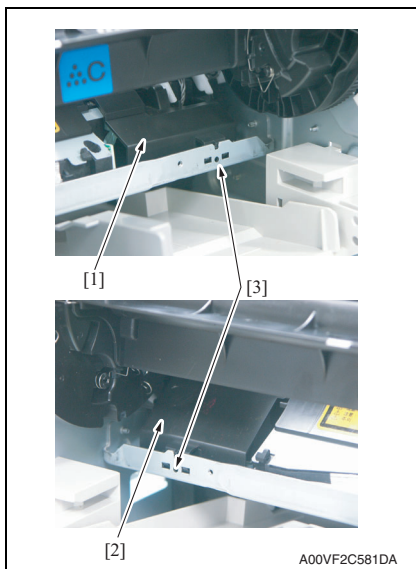


10. Remove the drum cartridge.

[See P.17](#)

**NOTE**

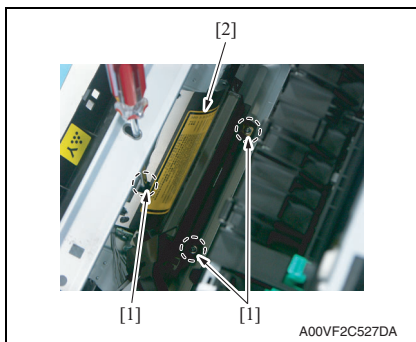
- Position the removed drum cartridge as shown in the illustration at the left.
- Be sure to keep the drum cartridge horizontal and place it where it will not become dirty.
- Do not leave the drum cartridge removed for more than 15 minutes, and do not place the removed drum cartridge in a location where it will be exposed to direct light (such as sunlight).



11. Remove the PH unit cover/right [1], left [2].

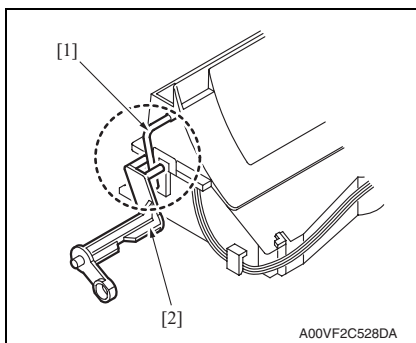
**CAUTION**

- Through the hole [3] at the location shown on the left, push the tab of the PH unit cover and remove the PH unit cover.
- Note the connector connected to the PH unit cover/right. Use care not to pull the unit with an excessive force, so you don't break the wire.



12. Press the rack release lever and turn the rack so that the screw on the PH unit can be accessed through the hole in the machine frame.

13. Remove three screws [1] and the PH unit [2].



**Precautions for reinstallation of the PH unit**

- When reinstalling the PH unit, make sure that you insert the lever [1] of the PH shutter into the lever of the machine [2].

**(2) magicolor 2530 DL**

1. Remove the rear cover.

See P.31

2. Remove the right cover.

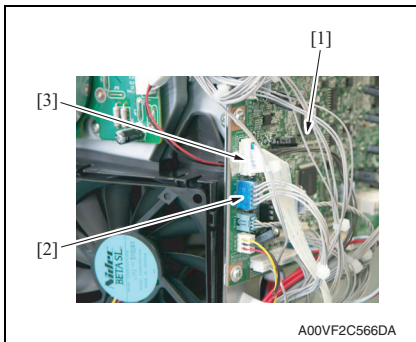
See P.33

3. Remove the left cover.

See P.32

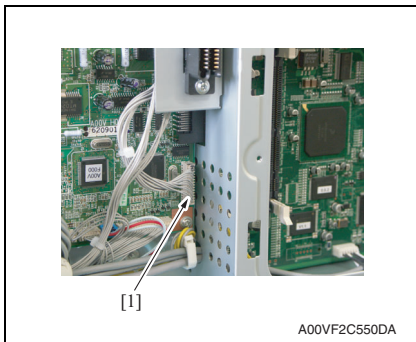
4. Remove the front cover.

See P.33



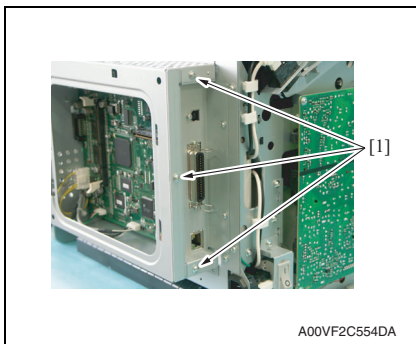
A00VF2C566DA

5. Disconnect the connector (PJ20) [2] and the flat cable (PJ19) [3] from the printer control board [1].



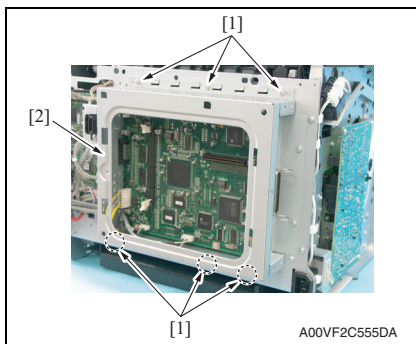
A00VF2C550DA

6. Disconnect the connector (PJ21) [1].

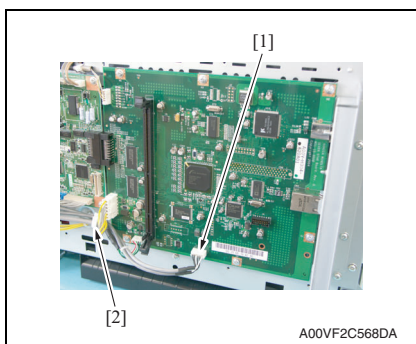


A00VF2C554DA

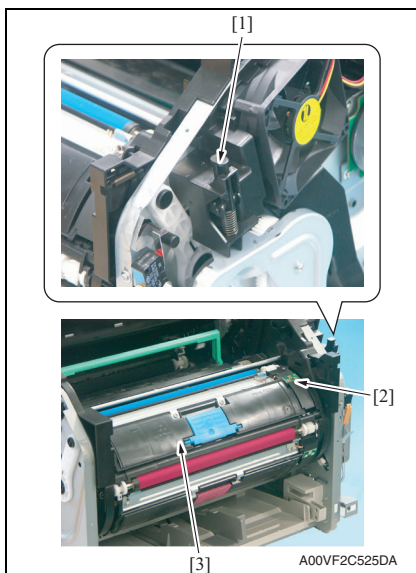
7. Remove three screws [1].



8. Remove six screws [1] and remove the image processing board protective shield [2].



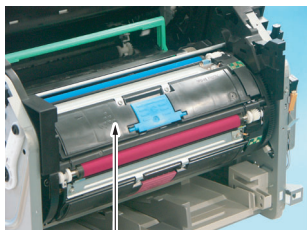
9. Disconnect the connector (CN11) [1] from the image processing board.
10. Remove the wire saddle [2].



11. Press the rack release lever [1] and then rotate the rack [2] so that the toner cartridge [3] is moved to a position, at which the toner cartridge can be easily removed.

#### NOTE

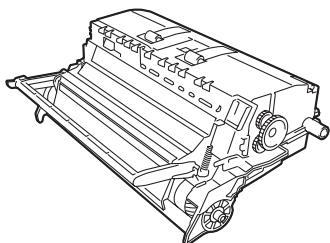
- When rotating the rack, use care not to touch the developing roller.



[1]

A00VF2C526DA

12. Hold onto the handle, pull it and remove the toner cartridge [1].
13. Repeat steps 11 and 12 to remove all toner cartridges.



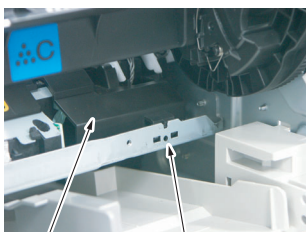
4139fs2538c0

14. Remove the drum cartridge.

See P.17

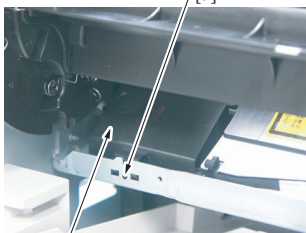
**NOTE**

- Position the removed drum cartridge as shown in the illustration at the left.
- Be sure to keep the drum cartridge horizontal and place it where it will not become dirty.
- Do not leave the drum cartridge removed for more than 15 minutes, and do not place the removed drum cartridge in a location where it will be exposed to direct light (such as sunlight).



[1]

[3]



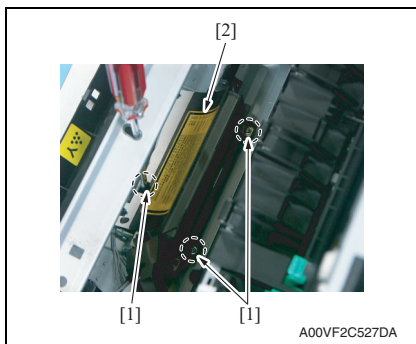
[2]

A00VF2C581DA

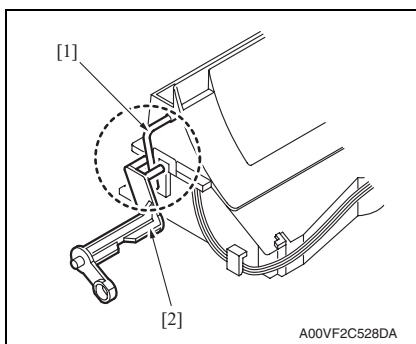
15. Remove the PH unit cover/right [1], left [2].

**CAUTION**

- Through the hole [3] at the location shown on the left, push the tab of the PH unit cover and remove the PH unit cover.
- Note the connector connected to the PH unit cover/right. Use care not to pull the unit with an excessive force, so you don't break the wire.



16. Press the rack release lever and turn the rack so that the screw on the PH unit can be accessed through the hole in the machine frame.
17. Remove three screws [1] and the PH unit [2].



#### Precautions for reinstallation of the PH unit

- When reinstalling the PH unit, make sure that you insert the lever [1] of the PH shutter into the lever of the machine [2].

**(3) magicolor 2550/magicolor 2550DN**

1. Remove the rear cover.

See P.31

2. Remove the right cover.

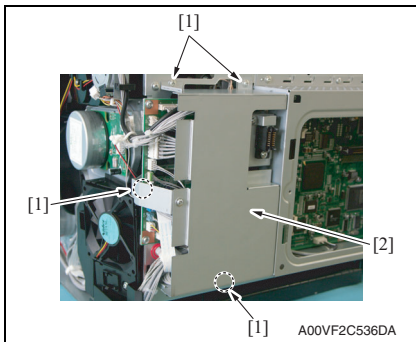
See P.33

3. Remove the left cover.

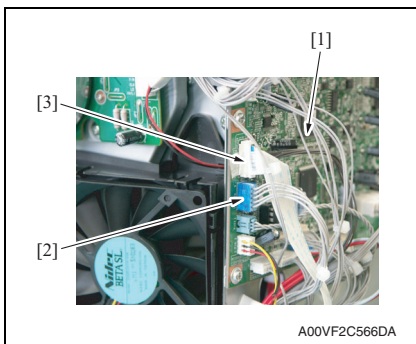
See P.32

4. Remove the front cover.

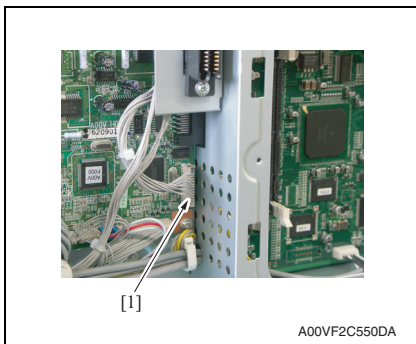
See P.33



5. Remove four screws [1] and remove the printer control board protective shield [2].

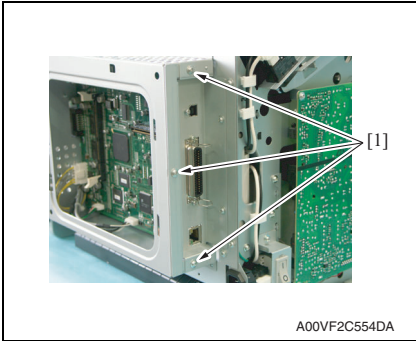


6. Disconnect the connector (PJ20) [2] and the flat cable (PJ19) [3] from the printer control board [1].

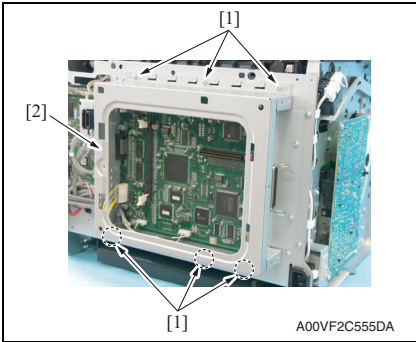


7. Disconnect the connector (PJ21) [1].

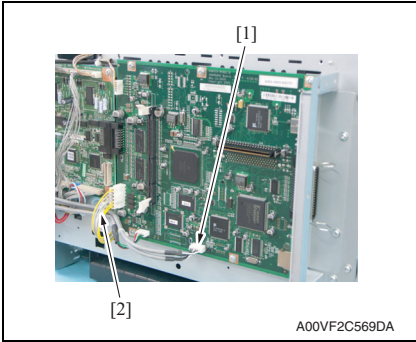




8. Remove three screws [1].

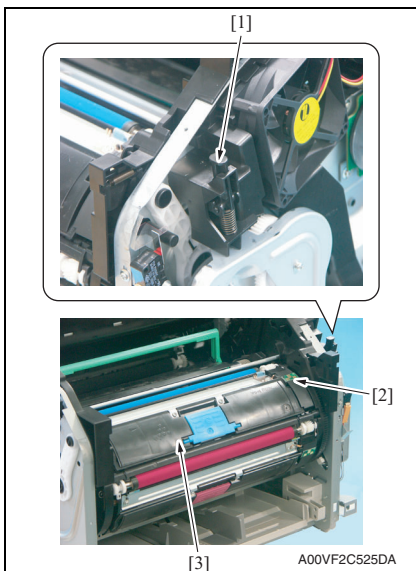


9. Remove six screws [1] and remove the image processing board protective shield [2].



10. Disconnect the connector (CN9) [1] from the image processing board.  
11. Remove the wire saddle [2].

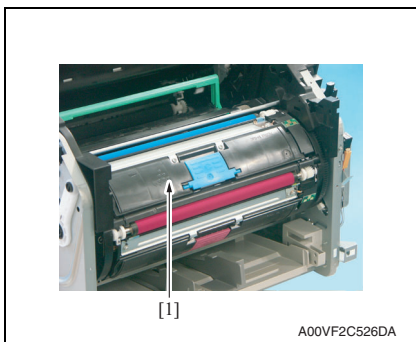




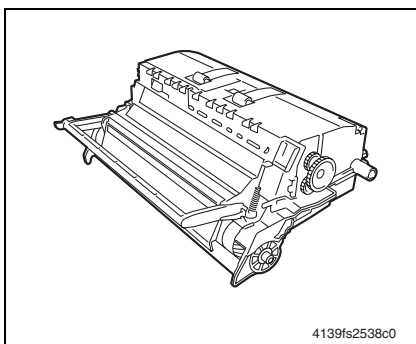
12. Press the rack release lever [1] and then rotate the rack [2] so that the toner cartridge [3] is moved to a position, at which the toner cartridge can be easily removed.

**NOTE**

- When rotating the rack, use care not to touch the developing roller.



13. Hold onto the handle, pull it and remove the toner cartridge [1].
14. Repeat steps 12 and 13 to remove all toner cartridges.

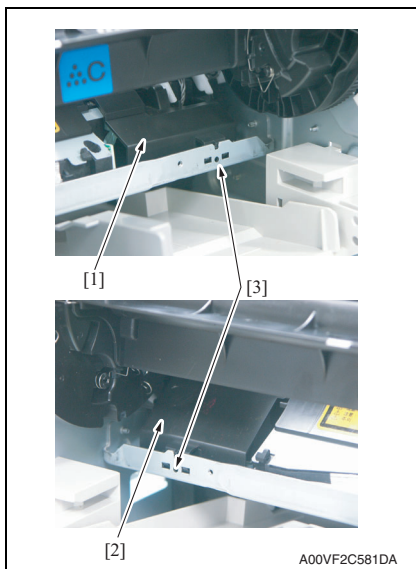


15. Remove the drum cartridge.

See P.17

**NOTE**

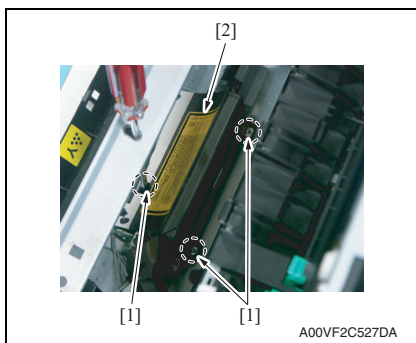
- Position the removed drum cartridge as shown in the illustration at the left.
- Be sure to keep the drum cartridge horizontal and place it where it will not become dirty.
- Do not leave the drum cartridge removed for more than 15 minutes, and do not place the removed drum cartridge in a location where it will be exposed to direct light (such as sunlight).



16. Remove the PH unit cover/right [1], left [2].

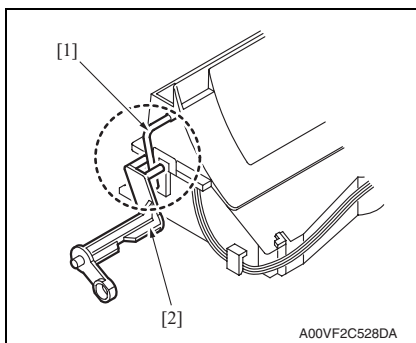
**CAUTION**

- Through the hole [3] at the location shown on the left, push the tab of the PH unit cover and remove the PH unit cover.
- Note the connector connected to the PH unit cover/right. Use care not to pull the unit with an excessive force, so you don't break the wire.



17. Press the rack release lever and turn the rack so that the screw on the PH unit can be accessed through the hole in the machine frame.

18. Remove three screws [1] and the PH unit [2].



**Precautions for reinstallation of the PH unit**

- When reinstalling the PH unit, make sure that you insert the lever [1] of the PH shutter into the lever of the machine [2].

**5.3.14 Paper pick-up unit**

1. Remove the rear cover.

[See P.31](#)

2. Remove the right cover.

[See P.33](#)

3. Remove the left cover.

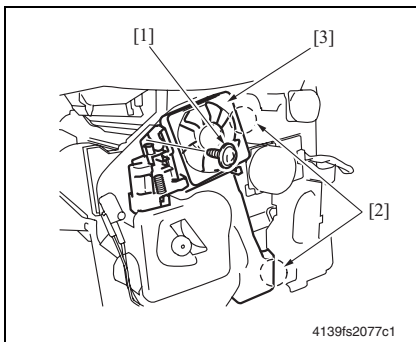
[See P.32](#)

4. Remove the high voltage unit and shield.

[See the removal procedure steps 1 to 2 of "Tray1 paper pick-up solenoid" on p.63](#)

5. Remove the rack drive Assy.

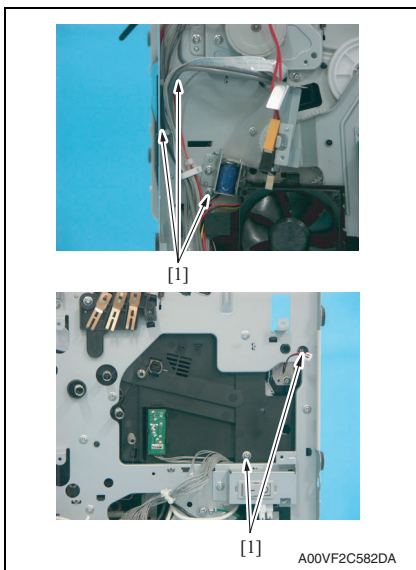
[See the removal procedure steps 1 to 3 of "Developing motor" on p.62](#)



6. Remove the ventilation fan motor.

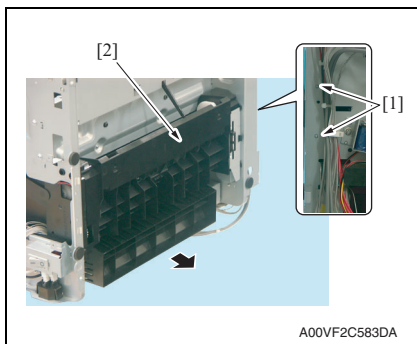
[See P.61](#)

7. Remove the screw [1], unlock two tabs [2] and remove the ventilation fan duct [3].



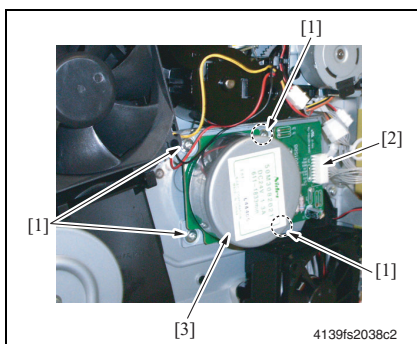
8. Lay the main body of the printer on its back.

9. Remove five screws [1].



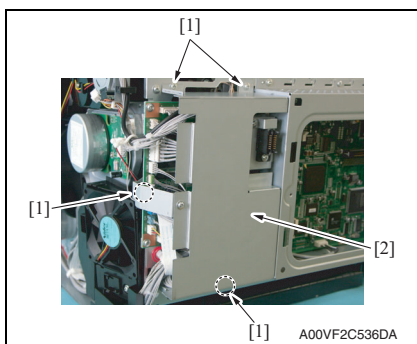
10. Unhook two dowels [1] and remove the paper pick-up unit [2].

### 5.3.15 Main motor (M1)



1. Remove the right cover.  
[See P.33](#)
2. Disconnect the connector [2], remove four screws [1] and main motor [3].

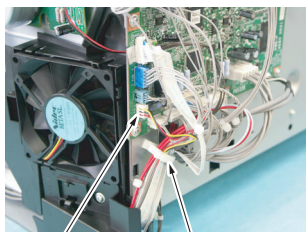
### 5.3.16 Power supply cooling fan motor (FM1)



1. Remove the right cover.  
[See P.33](#)
2. Remove four screws [1] and remove the printer control board protective shield [2].

#### NOTE

- Only the magicolor 2550 and magicolor 2550DN requires removing the printer control board protective shield [2].

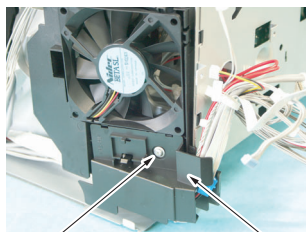


[1]

[2]

A00VF2C570DA

3. Disconnect the connector (PJ4) [1] from the printer control board.
4. Remove the wire saddle [2].

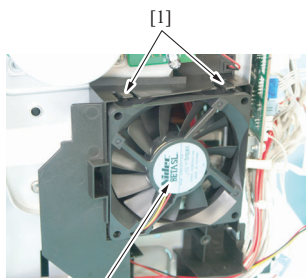


[1]

[2]

A00VF2C561DA

5. Remove a screw [1] and remove the power supply cooling fan motor cover [2].

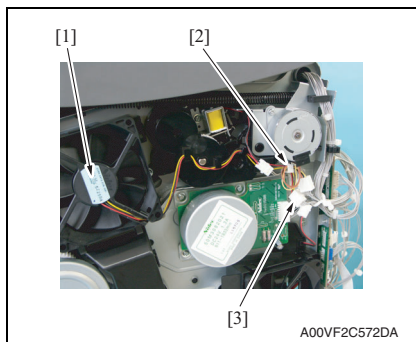


[1]

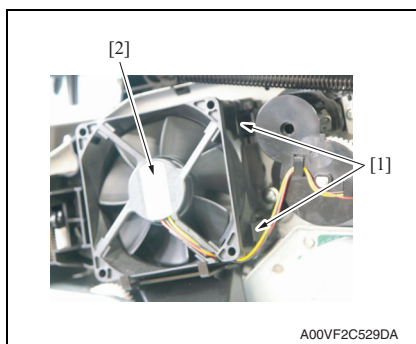
[2]

A00VF2C571DA

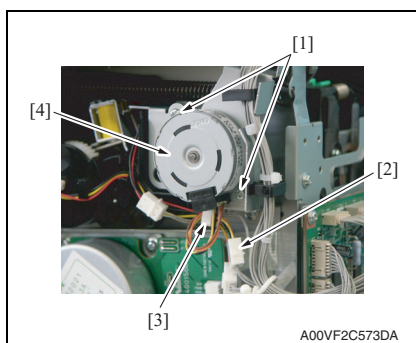
6. Unlock tabs [1] and remove the power supply cooling fan motor [2].

**5.3.17 Ventilation fan motor (FM2)**

1. Remove the right cover.  
[See P.33](#)
2. Disconnect the connector [2] of the ventilation fan motor [1] and remove the harness from the wiring saddle [3].

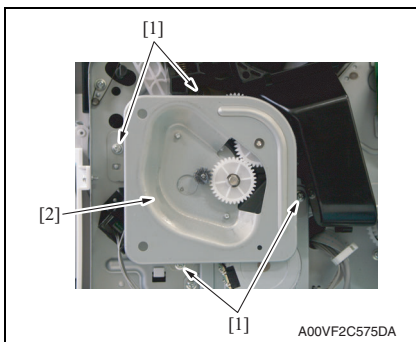
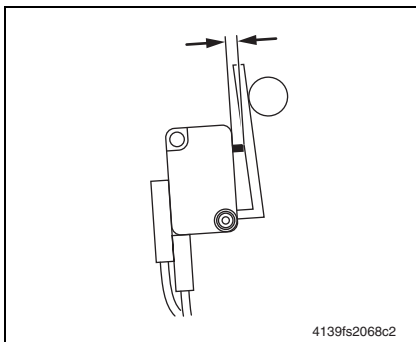
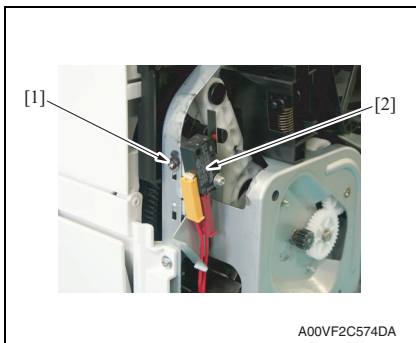


3. Unlock tabs [1] and remove the ventilation fan motor [2].

**5.3.18 Fusing motor (M4)**

1. Remove the right cover.  
[See P.33](#)
2. Remove two screws [1] and the connector [2].
3. Remove the harness from the wiring saddle [3] and then remove the fusing motor [4].

## 5.3.19 Developing motor (M3)



1. Remove the right cover.

See P.33

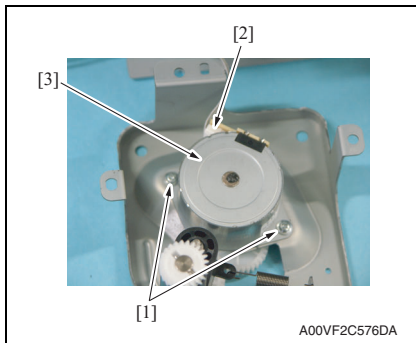
2. Remove the screw [1] and the safety switch assy [2].

#### Precautions for reinstallation of the safety switch assy

- Check that the switch is actuated with the front cover and the upper cover closed.
- Make sure that the distance between the switch lever and switch case (with the switch in the actuated position) falls within the specified range.

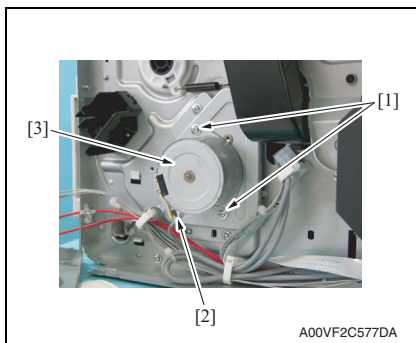
Specifications: 0.1 to 1.0 mm

3. Remove four screws [1] and the rack drive assy [2].



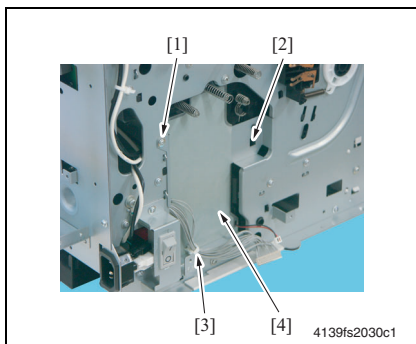
4. Remove two screws [1], disconnect the connector [2], and remove the developing motor [3].

### 5.3.20 Rack motor (M2)



1. Remove the rack drive assy.  
[See the removal procedure steps 1 to 3 of "Developing motor" on p.62.](#)
2. Remove two screws [1], disconnect the connector [2], and remove the rack motor [3].

### 5.3.21 Tray1 paper pick-up solenoid (SD1)



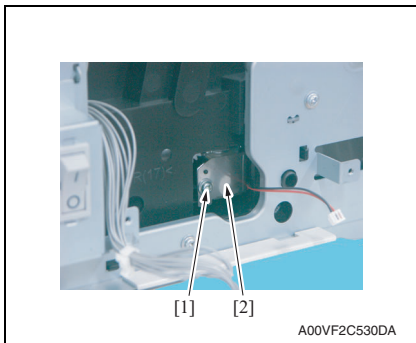
1. Remove the high voltage unit.  
[See P.46](#)
2. Remove one screw [1], unlock the tab [2], and remove the wiring saddle [3]. Then, remove the shield [4].



#### CAUTION

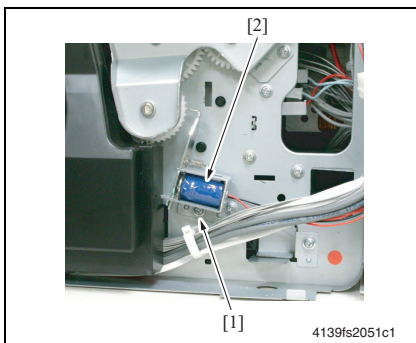
- When reinstalling the shield, make sure that no part of the harness is wedged in the mechanism.



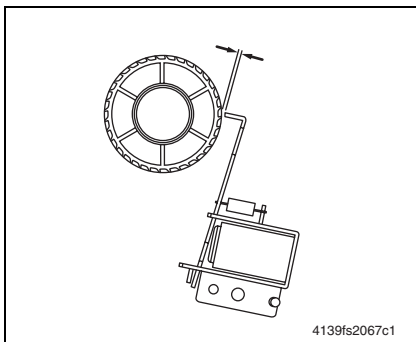


3. Remove the screw [1] and the tray1 paper pick-up solenoid [2].

### 5.3.22 Registration roller solenoid (SD2)

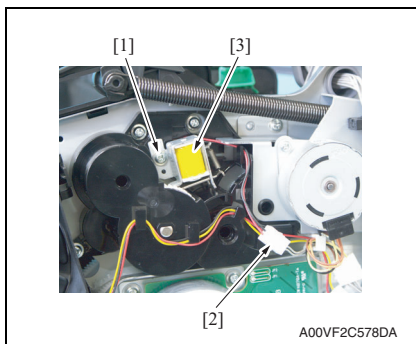


1. Remove the right cover.  
[See P.33](#)
2. Remove the power supply cooling fan motor assy.  
[See the removal procedure steps 6 to 7 of "DC power supply" on p.43](#)
3. Disconnect the connector, remove the screw [1], and remove the registration roller solenoid [2].

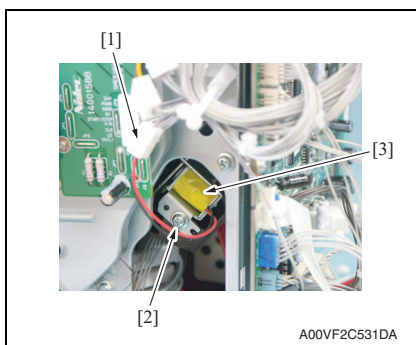


#### Precaution for reinstallation

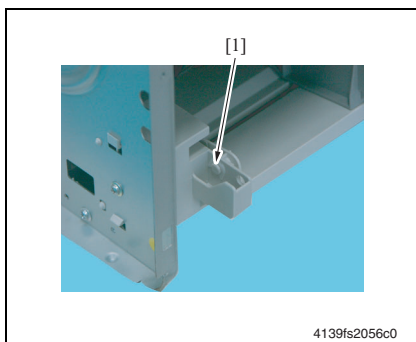
- Reinstall the solenoid so that the clearance between the gear of the registration roller clutch and flapper falls within the specified range.  
**Specifications:  $1.0 \pm 0.2$  mm**

**5.3.23 Pressure/retraction solenoid/cleaning blade (SD3)**

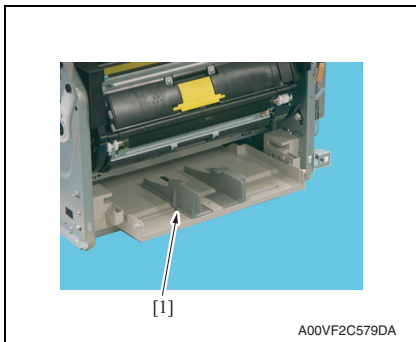
1. Remove the right cover.  
[See P.33](#)
2. Remove the screw [1], disconnect the connector [2], and remove the pressure/retraction solenoid/cleaning blade [3].

**5.3.24 Pressure/retraction solenoid /2nd image transfer (SD4)**

1. Remove the right cover.  
[See P.33](#)
2. Remove the power supply cooling fan motor assy.  
[See the removal procedure steps 6 to 7 of "DC power supply" on p.43](#)
3. Disconnect the connector [1] from the pressure/retraction solenoid /2nd image transfer.
4. Remove the mylar sheet.
5. Remove the screw [2] and the pressure/retraction solenoid /2nd image transfer [3].

**5.3.25 Temperature/humidity sensor (TEM/HUMS)**

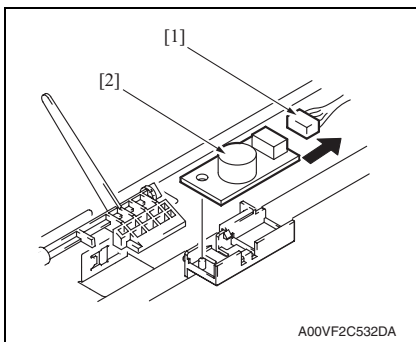
1. Remove the front cover.  
[See P.33](#)
2. Remove the C-clip [1].



3. Remove the tray1 [1].

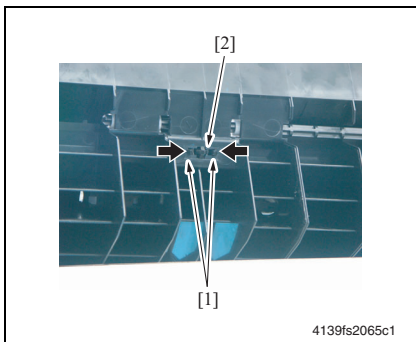
**NOTE**

- Use care not to lose the two springs.
- Be careful not to damage the actuator of the tray1 paper empty sensor.



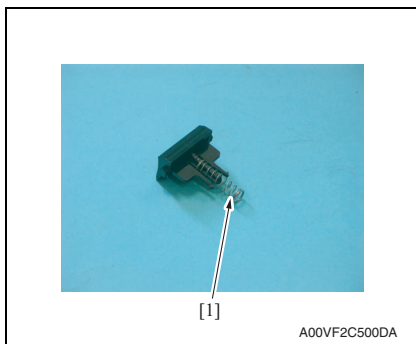
4. Disconnect the connector [1] and remove the temperature/humidity sensor [2].

### 5.3.26 Separation pad



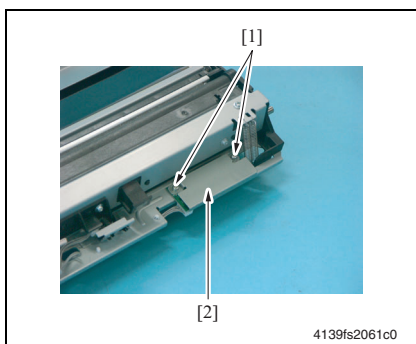
**A. Removal procedure**

1. Remove the paper pick-up unit.  
[See P.58](#)
2. Unlock tabs [1] and remove the separation pad [2].

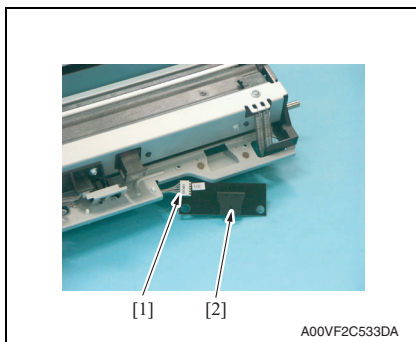


3. Unhook the spring [1].

### 5.3.27 IDC Sensor (IDC)

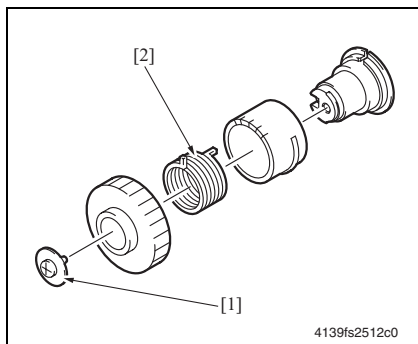


1. Remove the transfer belt unit.  
[See P.19](#)
2. Remove two screws [1] and the IDC sensor protective cover [2].



3. Disconnect the connector [1] and remove the IDC Sensor [2].

## 5.3.28 Torque limiter

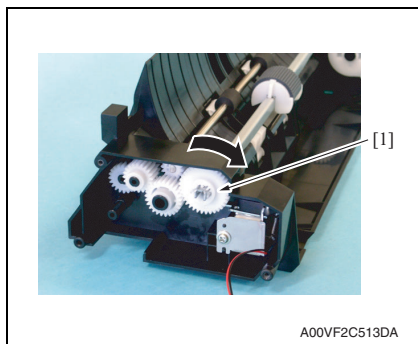
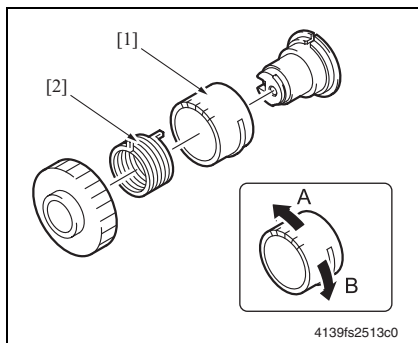
**A. Removal procedure**

1. Remove the paper pick-up unit.  
[See P.58](#)
2. Remove the screw [1] and the paper pick-up clutch.
3. Disassemble the paper pick-up clutch and remove the torque limiter [2].

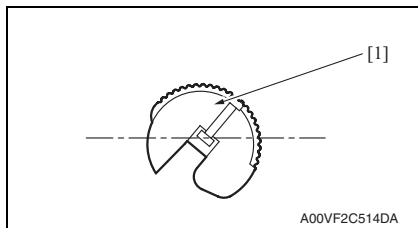
**B. Reinstallation procedure**  
**NOTE**

- There are five slots provided in the coupling gear [1] of the paper pick-up clutch. These slots are for adjusting the position of the pick-up roller.

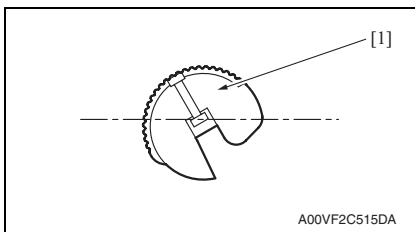
When the torque limiter [2] is reinstalled, it is necessary to adjust the position of the coupling gear [1] and torque limiter [2] so that any paper take-up failure can be prevented.



1. Install the paper pick-up clutch [1].
2. Turn the paper pick-up clutch [1] in the direction of the arrow shown on the left until it is engaged with the solenoid and stopped.



3. If the pick-up roller [1] tilts in the clockwise direction, turn the coupling gear of the paper pick-up clutch in the direction of A and reassemble the paper pick-up clutch.

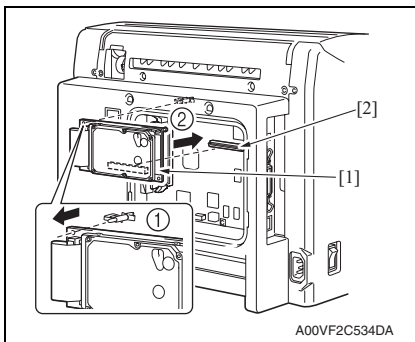


4. If the pick-up roller [1] tilts in the counterclockwise direction, turn the coupling gear of the paper pick-up clutch in the direction of B and reassemble the paper pick-up clutch.

### 5.3.29 Hard disk kit (Option)

#### NOTE

- The hard disk kit can be mounted only on the magicolor 2550 and magicolor 2550DN.



1. Remove the rear panel.  
[See P.31](#)
2. Pull out and remove the hard disk [1].

#### NOTE

- Do not remove the hard disk with great force, as connector [2] is connected to it.

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

Maintenance

Blank Page

# Adjustment/Setting

## 6. How to use the adjustment section

- This section contains detailed information on the adjustment items and procedures for this machine.
- Throughout this section, the default settings are indicated by boldface.

### Advance checks

Before attempting to solve the customer's problem, the following advance checks must be made:

- Does the power supply voltage meet the specifications?
- Is the power supply properly grounded?
- Does the machine share a power supply with any other machine that draws a large current intermittently (for example, an elevator or air conditioner that generates electrical noise)?
- Is the installation site level and environmentally appropriate (for example, away from high temperatures, high humidity, direct sunlight, direct ventilation, etc.)?
- Does the original have a problem that may cause a defective image?
- Is the density properly selected?
- Is the correct media being used for printing?
- Are the units, parts, and supplies used for printing (developer, PC drum, etc.) properly replenished and replaced when they reach the end of their useful service life?
- Is there an adequate supply of toner in the toner cartridges?



### CAUTION

- **Unplug the machine's power cord before starting a service job procedure.**
- **If it is unavoidably necessary to service the machine with its power turned ON, use the utmost care not to get caught in the scanner cables or gears of the Exposure Unit.**
- **Use special care when handling the fusing unit, which can be extremely hot.**
- **The Developing Unit has a strong magnetic field. Keep watches and measuring instruments away from it.**
- **Take care not to damage the PC drum with a tool or similar device.**
- **Do not touch IC pins with your bare hands.**

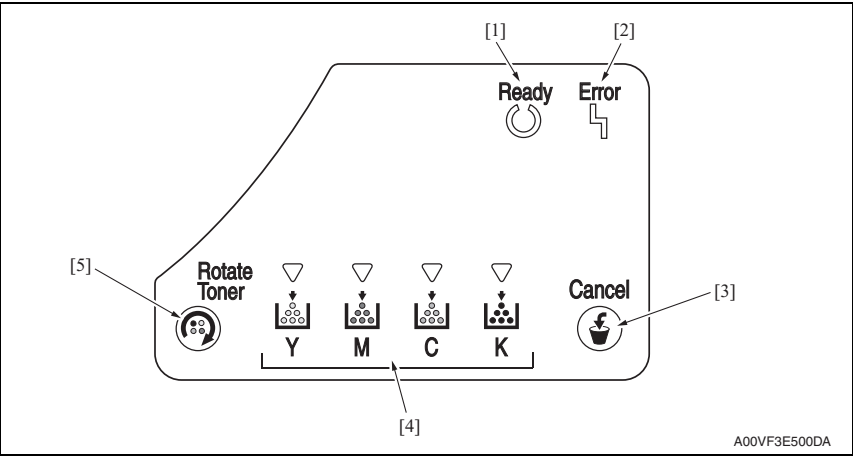


magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

# 7. Description of the control panel (magicolor 2500W)

## 7.1 Control panel display

- The control panel contains six LED indicators and two keys, the Rotate Toner key and the Cancel key.



[1] Ready indicator

[2] Error indicator

[3] Cancel key

[4] Toner indicators

[5] Rotate Toner key

### 7.1.1 LED Indicator

- Each of the LED indicators provides five different types of signals. A specific printer condition is indicated by the combination of these signal types.

Signal	Description
OFF	• OFF at all times
ON	• ON at all times
Slow blinking	• 1 blink every 2 seconds
Blinking	• 1 blink per second
Rapid blinking	• 2 blinks per second

Adjustment / Setting

### 7.1.2 List of status messages

- The combinations of ON, OFF, and/or blinking states of the Ready indicator, Error indicator, and toner indicators represent specific conditions of the printer.

#### A. Normal state messages

Ready indicator (green)	Error indicator (orange)	Description
OFF	OFF	• Power OFF.
ON	OFF	• Ready to print.
ON	ON	• Initializing (power ON). • Canceling a job.
Rapid blinking	ON	• Toner cartridge change mode
Rapid blinking	OFF	• Warming up. • Calibrating.
Blinking	OFF	• Processing data. • Printing.
Slow blinking	OFF	• Energy Saver mode.

#### B. Caution messages

Ready indicator (green)	Error indicator (orange)	Toner indicators	Description
OFF	OFF	Slow blinking	• The toner cartridge will soon run out.
OFF	OFF	ON	• The toner cartridge is empty.
ON	Rapid blinking	Rapid blinking	• The toner cartridge is not a genuine KONICA MINOLTA toner cartridge or not the correct type.
ON	Slow blinking	-	• The drum cartridge will soon run out.
ON	Blinking	-	• The drum cartridge is empty.

#### C. Error messages

Ready indicator (green)	Error indicator (orange)	Description
Blinking	Blinking	• Communication error. A communication error of some kind has occurred in the USB interface. • Video under-run.
OFF	Blinking	• No media (during printer standby) • A media jam has occurred. • A toner cartridge or the drum cartridge is not installed properly.
OFF	ON	• The front cover or top cover is open.
Rapid blinking alternately		• No media (during a print cycle) • Media is not loaded in the tray specified by the printer driver. • Media of the size specified by the printer driver is not loaded in the tray. • Media size error

**D. Malfunction messages**

Ready indicator (green)	Error indicator (orange)	Description
OFF	Rapid blinking	• A malfunction has occurred.

**7.1.3 Cancel key**

- The Cancel key can be used to cancel a print job. It also allows that specific print job to be resumed after the error has been eliminated.

**A. Cancelling a print job**

- The currently processing print job can be canceled.
1. While data is being processed or printed (the green Ready indicator is blinking), hold down the Cancel key for more than 5 seconds.
  2. Release the Cancel key after both indicators light up. The current print job has now been cancelled.

**B. Continuing a print job after an error message**

The print job can be resumed after an error of any of the following types has been eliminated:

- When there is no more media in the tray
  - When media of a different format than that set in the printer driver was fed into the printer
1. Check that one of the above errors has occurred.
  2. Perform the remedial action according to the error.
  3. Press the Cancel key to reinitiate media feeding.
  4. The print job continues.

7.2 Service support tools

7.2.1 Details of service support tools

- The following is a list of the different types of service support tools.

No.	Name	Ref. page
1	High altitude support	P.75
2	White spots/void areas on high density areas	P.76
3	Consumables expected life display	P.76
4	Consumables counter reset	P.77

7.2.2 Compatible OS

- Windows XP, 2000, 98SE

NOTE

- Before using the service support tools on Windows 98SE, the DLL file (msvbvm60.dll) must be copied to the “C:\Windows\System32” directory.

7.2.3 High altitude support


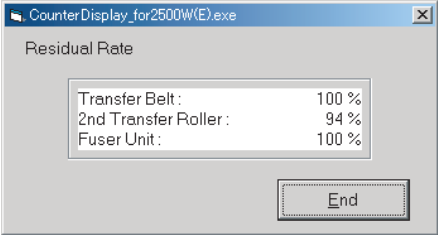
Function	<ul style="list-style-type: none"><li>• Optimizes the image by varying the output value of the developing bias when an image problem occurs as affected by the atmospheric pressure at high altitudes.</li></ul>										
Use	<ul style="list-style-type: none"><li>• When an image problem (uneven density) occurs in an environment of low atmospheric pressure at high altitudes.</li></ul>										
Setting /procedure	<div><ul style="list-style-type: none"><li>• The available setting options are as follows.</li></ul><table><tr><th>Setting options</th><th>Developing bias value</th></tr><tr><td>Default</td><td>No offset</td></tr><tr><td>-1(Lower)</td><td>100 V</td></tr><tr><td>High Altitude</td><td>200 V</td></tr><tr><td>+1(Higher)</td><td>300 V</td></tr></table><div><div>1. Connect the printer to the PC.</div><div>2. Execute the “HighAltitude_for2500W(E).exe” service support tool.</div><div>3. Click [Show Status] to check the current setting.</div><div>4. Click [High Altitude], [-1], or [+1] to make the appropriate setting.</div><div>5. Click [Show Status] again to make sure that the setting has been correctly changed.</div><div>6. Turn the power switch OFF and then ON again.</div></div></div>	Setting options	Developing bias value	Default	No offset	-1(Lower)	100 V	High Altitude	200 V	+1(Higher)	300 V
Setting options	Developing bias value										
Default	No offset										
-1(Lower)	100 V										
High Altitude	200 V										
+1(Higher)	300 V										

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

7.2.4 White spots/void areas in high-density areas

Function	<ul style="list-style-type: none"><li>Adjusts image characteristics according to user requirements for each type of media by varying the second transfer voltage.</li></ul>
Use	<ul style="list-style-type: none"><li>When an image problem (void areas, white spots) occurs due to the characteristics of the type of media being used.<ul style="list-style-type: none"><li>To give preference to the image quality of fine line drawing :[Void Area+1], [Void Area+2]</li><li>To give preference to the image quality of solid images :[White Spot+1], [White Spot+2]</li></ul></li></ul>
Setting /procedure	<ol style="list-style-type: none"><li>Connect the printer to the PC.</li><li>Execute the "LineDrawEffect_for2500W(E).exe" service support tool.</li><li>Select the type of media for which adjustments are to be made.</li><li>Click [Show Status] to check the current setting.</li><li>Click to select either [Void Area+1] or [White Spot+1].</li><li>Click [Show Status] again to make sure that the setting has been correctly changed.</li><li>Execute a test print and check for the correct image.</li><li>If good effects are not obtained, change the setting to either [Void Area+2] or [White Spot+2].</li><li>Turn the power switch OFF and then ON again.</li></ol>


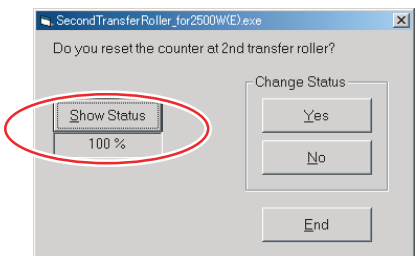
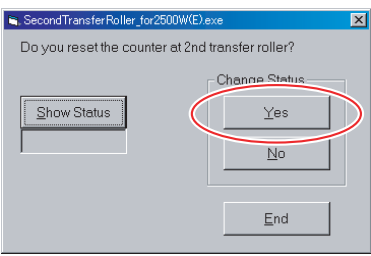
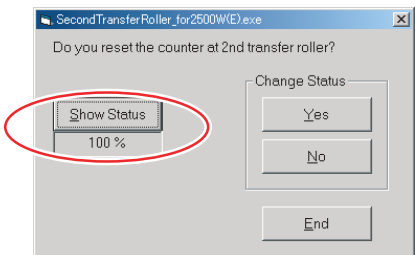
7.2.5 Consumables expected life display

Function	<ul style="list-style-type: none"><li>Displays the expected remaining life (as a percentage) of the 2nd transfer roller, transfer belt unit, and fusing unit.</li></ul>
Use	<ul style="list-style-type: none"><li>For checking the remaining life of the 2nd transfer roller, transfer belt unit, and fusing unit.</li></ul>
Setting /procedure	<ol style="list-style-type: none"><li>Connect the printer to the PC.</li><li>Execute the "CounterDisplay_for2500W(E).exe" service support tool.<div><div>A00VF3E506DA</div></div></li><li>Check the counter for each consumable.<div><div>A00VF3E505DA</div></div></li></ol>

Adjustment / Setting

## 7.2.6 Consumables counter reset


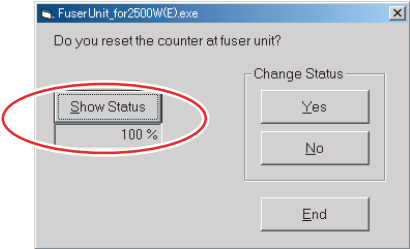
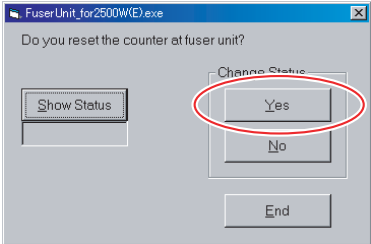
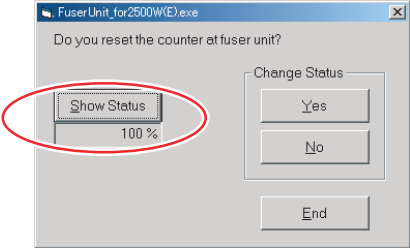
### A. 2nd transfer roller

Function	<ul style="list-style-type: none"> <li>Resets the counter for the 2nd transfer roller.</li> </ul>
Use	<ul style="list-style-type: none"> <li>When the 2nd transfer roller has been replaced with a new one.</li> </ul>
Setting /procedure	<p>1. Connect the printer to the PC.</p> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li><b>At this time, make sure that the top cover of the printer is open.</b></li> </ul> <p>2. Execute the "SecondTransferRoller_for2500W(E).exe" service support tool.</p>  <p style="text-align: right;">A00VF3E503DA</p> <p>3. Click [Show Status] to check the current counter reading.</p>  <p style="text-align: right;">A00VF3E504DA</p> <p>4. Click [Yes] to reset the counter.</p>  <p style="text-align: right;">A00VF3E507DA</p> <p>* To quit the function without resetting the counter, click [No] or [End].</p> <p>5. Click [Show Status] again to make sure that the counter has been correctly reset.</p>  <p style="text-align: right;">A00VF3E504DA</p> <p>6. Close the top cover of the printer.</p>

**B. Transfer belt unit**

Function	<ul style="list-style-type: none"> <li>Resets the counter for the transfer belt unit.</li> </ul>
Use	<ul style="list-style-type: none"> <li>When the transfer belt unit has been replaced with a new one.</li> </ul>
Setting /procedure	<p>1. Connect the printer to the PC.</p> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li><b>At this time, make sure that the top cover of the printer is open.</b></li> </ul> <p>2. Execute the "TransferBelt_for2500W(E).exe" service support tool.</p> <div data-bbox="535 320 684 451" data-label="Image"> </div> <p style="text-align: right;">A00VF3E508DA</p> <p>3. Click [Show Status] to check the current counter reading.</p> <div data-bbox="372 509 773 758" data-label="Image"> </div> <p style="text-align: right;">A00VF3E509DA</p> <p>4. Click [Yes] to reset the counter.</p> <div data-bbox="422 818 790 1064" data-label="Image"> </div> <p style="text-align: right;">A00VF3E510DA</p> <p>* To quit the function without resetting the counter, click [No] or [End].</p> <p>5. Click [Show Status] again to make sure that the counter has been correctly reset.</p> <div data-bbox="372 1155 773 1402" data-label="Image"> </div> <p style="text-align: right;">A00VF3E509DA</p> <p>6. Close the top cover of the printer.</p>

C. Fusing unit

Function	<ul style="list-style-type: none"><li>Resets the counter for the fusing unit.</li></ul>
Use	<ul style="list-style-type: none"><li>When the fusing unit has been replaced with a new one.</li></ul>
Setting /procedure	<div><div>1. Connect the printer to the PC.</div><div><b>NOTE</b><ul style="list-style-type: none"><li>At this time, make sure that the top cover of the printer is open.</li></ul></div><div>2. Execute the "FuserUnit_for2500W(E).exe" service support tool.</div><div></div><div>A00VF3E511DA</div><div>3. Click [Show Status] to check the current counter reading.</div><div></div><div>A00VF3E512DA</div><div>4. Click [Yes] to reset the counter.</div><div></div><div>A00VF3E513DA</div><div>* To quit the function without resetting the counter, click [No] or [End].</div><div>5. Click [Show Status] again to make sure that the counter has been correctly reset.</div><div></div><div>A00VF3E512DA</div><div>6. Close the top cover of the printer.</div></div>

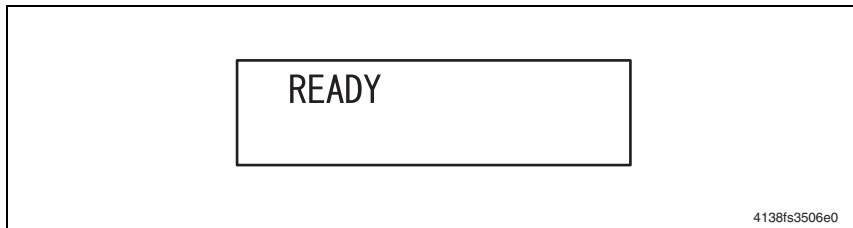


## 8. Description of the control panel (magicolor 2530 DL)

### 8.1 Control panel display

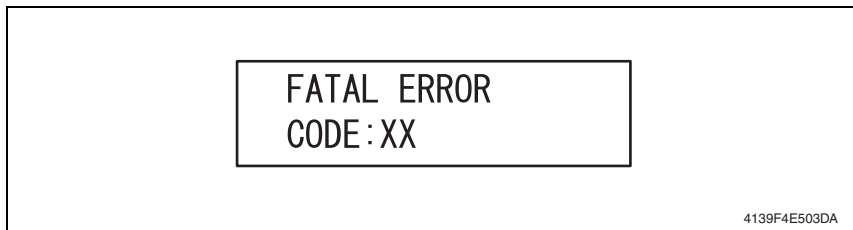
#### 8.1.1 Basic screen

- The basic screen is the initialization screen that displays when warmup is complete or when you exit from the configuration menu.



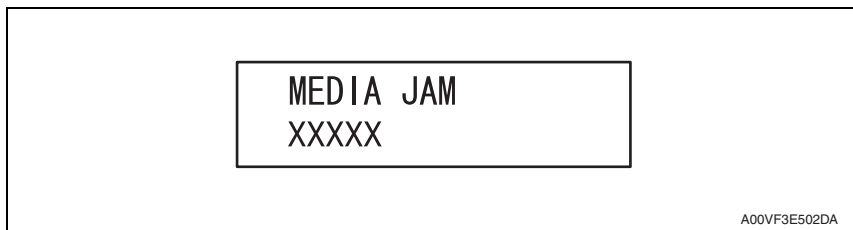
#### 8.1.2 Warning screen

- This screen appears when a malfunction occurs that can be taken care of by the user.



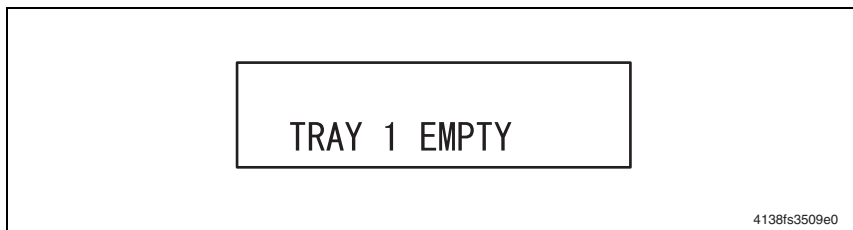
#### 8.1.3 Error display

- This display appears when an error occurs that requires a service technician.



#### 8.1.4 Caution display

- A caution display appears when an event occurs that requires user intervention, but does not interrupt printing.



## 8.2 List of control panel messages

### 8.2.1 Normal state messages

- Normal state messages are displayed on the upper line of the LCD.

Message	Description
READY	• Ready to print.
PROCESSING	• Processing data.
PRINTING	• Printing.
WARMING UP	• Warming up.
CALIBRATING	• Calibrating.
ENERGY SAVER	• Energy saver mode.
CANCELLING JOB	• Canceling a job.
IMAGING	• An image for direct print is being rendered.

### 8.2.2 Caution messages

- Caution messages are displayed on the lower line of the LCD.

Message	Description
SIZE MISMATCH	• The correct size media is not loaded in any of the trays (only when [AUTO CONTINUE] is set to ON).
DRUM LOW	• The drum cartridge will soon run out.
X TONER LOW	• The specified color toner cartridge will soon run out.
TRAY 2 EMPTY	• No media in Tray 2 (only when an optional Lower Feeder Unit is installed).
TRAY 1 EMPTY	• No media in Tray 1.

- \* The higher the message in the above list, the higher the priority.

### 8.2.3 Minor error messages

Message	Description
INCORRECT CARTRIDGE XX	• The toner cartridge is not a genuine KONICA MINOLTA toner cartridge or not the correct type.
DRUM CARTRIDGE END OF LIFE	• The drum cartridge is empty.
TONER EMPTY X	• The specified color toner cartridge is empty.

- \* The higher the message in the above list, the higher the priority.

**8.2.4 Error messages**

Message	Description
MEDIA JAM XXXX	<ul style="list-style-type: none"> <li>A media jam has occurred at the specified location.</li> </ul>
PUT MEDIA: TRAY 1 "MEDIA"	<ul style="list-style-type: none"> <li>The type of the media set in the printer driver differs from that of the media loaded in the specified tray.</li> </ul>
PUT MEDIA: TRAY X "SIZE"	<ul style="list-style-type: none"> <li>The size of the media set in the printer driver differs from that of the media loaded in the specified tray.</li> <li>The specified tray has run out of media while media was being fed from it.</li> </ul>
DRAWER OPEN TRAY 2	<ul style="list-style-type: none"> <li>Tray 2 is not installed or is not correctly adjusted.</li> </ul>

\* The higher the message in the above list, the higher the priority.

**8.2.5 Serious error messages**

Message	Description
ERROR AIDC SENSOR	<ul style="list-style-type: none"> <li>The AIDC Sensor has developed a malfunction of some sort.</li> </ul>
ILLEGAL ERROR DUPLEX	<ul style="list-style-type: none"> <li>A 2-sided print cycle has been run using a type or size of media not appropriate for 2-sided printing.</li> </ul>
ERROR MEMORY OVER- FLOW	<ul style="list-style-type: none"> <li>The volume of data to be printed exceeds the permissible amount of data to be processed by the machine memory.</li> </ul>
ERROR VIDEO UNDERRUN	<ul style="list-style-type: none"> <li>The volume of data to be printed exceeds the permissible amount of data to be transferred in the machine.</li> </ul>
COVER OPEN FRONT	<ul style="list-style-type: none"> <li>The front cover of the machine is open.</li> </ul>
COVER OPEN DUPLEX	<ul style="list-style-type: none"> <li>The duplex option door is open.</li> </ul>
DRUM CARTRIDGE NOT ATTACHED	<ul style="list-style-type: none"> <li>The drum cartridge is not installed.</li> </ul>
FUSER NOT ATTACHED	<ul style="list-style-type: none"> <li>The fusing unit is not installed.</li> </ul>
WASTE BOTTLE NOT ATTACHED	<ul style="list-style-type: none"> <li>The waste toner box is not installed.</li> </ul>
X TONER NOT INSTALLED	<ul style="list-style-type: none"> <li>The specified color toner cartridge is not installed properly.</li> </ul>
DRUM CARTRIDGE END OF LIFE	<ul style="list-style-type: none"> <li>The drum cartridge has reached its service life due to the waste toner box being full.</li> </ul>
TONER LIFE END XXXX	<ul style="list-style-type: none"> <li>The specified color toner cartridge has run out (only when ENGINE/TONER EMPTY is set to STOP).</li> </ul>
TONER LIFE END XXXX (with the error indicator lit up steadily)	<ul style="list-style-type: none"> <li>The specified color toner cartridge has run out completely or exceeded its service life.</li> </ul>
TRAY 2 NOT ATTACHED	<ul style="list-style-type: none"> <li>The specified tray is not installed, but it is set in the printer driver.</li> </ul>
DUPLEX OPTION NOT ATTACHED	<ul style="list-style-type: none"> <li>The duplex option is not installed, but 2-sided printing is specified in the printer driver.</li> </ul>

Message	Description
SIZE/TYPE ERROR DUPLEX	<ul style="list-style-type: none"> <li>The media size or type loaded in the machine is not appropriate for 2-sided printing.</li> </ul>
SIZE/TYPE ERROR	<ul style="list-style-type: none"> <li>The correct media size or type is not loaded in, or being fed through, the machine.</li> </ul>

\* The higher the message in the above list, the higher the priority.

### 8.2.6 Malfunction messages

For details of malfunction messages and troubleshooting procedures, see "Troubleshooting".

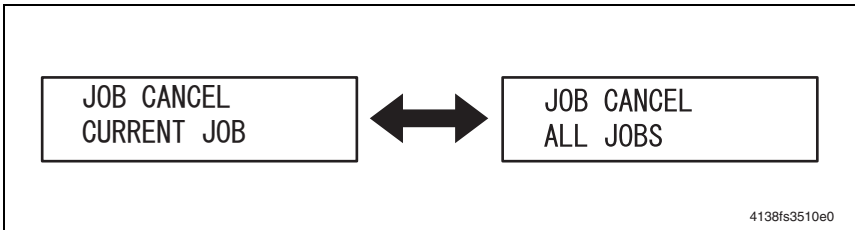
Message	Description
ERROR CONTROLLER	<ul style="list-style-type: none"> <li>A fault has occurred in the controller.</li> </ul>
ERROR ENGINE INTERFACE	<ul style="list-style-type: none"> <li>There is a connection fault between the printer control board (PRCB) and the image processing board (IPB).</li> </ul>
ERROR COMMUNICATION	<ul style="list-style-type: none"> <li>A communications error has occurred in the USB or Ethernet interface.</li> </ul>
FATAL ERROR CODE: XXX	<ul style="list-style-type: none"> <li>The engine or controller is faulty.</li> </ul>

\* The higher the message in the above list, the higher the priority.

## 8.3 Canceling a print job

- A print job being processed or printed can be canceled by pressing the Cancel key.
- If the Cancel key is pressed while a print job is being printed, a message appears on the control panel.
  - Select the job to be canceled by using the right or left arrow key and then press the Menu Select key.

Panel display	Description
JOB CANCEL CURRENT JOB	Cancels the job being currently printed.
JOB CANCEL ALL JOBS	Cancels all jobs the machine has so far received but has not yet finished printing.



magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

9. MENU (magicolor 2530 DL)

9.1 List of MENU functions

- \*1: Displayed only on 110V models if [ENERGY SAVER] in the ENGINE/SERVICE/ENERGY SAVER menu is set to ON.
- \*2: Displays only if an optional Lower Feeder Unit is installed.
- \*3: Displayed only on 110V models.

MENU		Ref. page
SPECIAL PAGES	PRINT CONFIG PAGE	P.86
	PRINT TEST PAGES	P.86
	PRINT MENU MAP	P.86
LANGUAGE	LANGUAGE SET ENGLISH	P.86
	LANGUAGE SET FRENCH	
	LANGUAGE SET GERMAN	
	LANGUAGE SET ITALIAN	
	LANGUAGE SET PORTUGUESE	
	LANGUAGE SET SPANISH	
	LANGUAGE SET CZECH	
	LANGUAGE SET JAPANESE	

Adjustment / Setting

MENU			Ref. page
ENGINE	REPLACE TONER		P.87
	TONER EMPTY		P.87
	ENERGY SAVER <sup>*1</sup>		P.88
	AUTO CONTINUE		P.88
	TRAY CHAINING <sup>*2</sup>		P.88
	SERVICE	TOTAL FACE COUNT	P.88
		COLOR FACE COUNT	P.88
		BW FACE COUNT	P.89
		CONTROLLER VER.	P.89
		ENGINE VER.	P.89
		COLOR CALIBRATION	P.89
		REMOVE ALL TONER	P.89
		ENERGY SAVER <sup>*3</sup>	P.90
		RESTORE USER DEFAULT	P.90
		DUPLEX DENSITY	P.90
		ALTITUDE SETUP	P.91
		TRANSFER VOLTAGE	P.91
NETWORK	DHCP:XX BOOTP:XX		P.92
	IP ADDRESS		P.92
	SUBNET MASK		P.92
	GATEWAY		P.92
	MAC ADDRESS		P.93
	HTTP:XX		P.93
	SNMP:XX		P.93
	FORCED MODES		P.93
CONSUMABLE USAGE	BLACK TONER		P.94
	CYAN TONER		P.94
	MAGENTA TONER		P.94
	YELLOW TONER		P.94
	DRUM CARTRIDGE		P.94
DIRECT PRINT	IMAGE QUALITY		P.94
	PAPER SIZE		P.95
	MEDIA TYPE		P.95
	LAYOUT		P.95
	BRIGHTNESS		P.95
	SHARPNESS		P.96
	AUTO ROTATE		P.96

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

Adjustment / Setting

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

9.2 SPECIAL PAGES

9.2.1 PRINT CONFIG PAGE

Function	• Prints a configuration page.
Use	• To check configuration of the machine. The following items can be checked: Consumables information Number of pages printed to date Installed options Amount of memory installed Firmware version Network settings Engine settings
Setting /procedure	Select [PRINT CONFIG PAGE] and press the Menu Select key.

9.2.2 PRINT TEST PAGES

Function	• Prints a test page.
Use	• To test printing.
Setting /procedure	• Select [PRINT TEST PAGE] and press the Menu Select key.

9.2.3 PRINT MENU MAP

Function	• Prints a menu map.
Use	• To check the available menu settings.
Setting /procedure	• Select [PRINT MENU MAP] and press the Menu Select key.

9.3 LANGUAGE

Function	• Sets the language of the control panel display.
Use	• To change the language of the control panel display. • The default setting varies according to the voltage of the printer.
Setting/ procedure	• The default setting is ENGLISH (110V and 220V printers) or JAPANESE (100V printers). <div>“ENGLISH”      FRENCH      GERMAN      ITALIAN PORTUGUESE    SPANISH    CZECH      “JAPANESE”</div>

Adjustment / Setting

## 9.4 ENGINE

### 9.4.1 REPLACE TONER

#### A. REPLACE TONER/(color)

Function	<ul style="list-style-type: none"> <li>Moves a specific color toner cartridge to the appropriate position to allow it to be replaced.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To allow a toner cartridge to be replaced.</li> </ul>
Setting /procedure	<ol style="list-style-type: none"> <li>Select [ENGINE REPLACE TONER] and the specific color of toner to be replaced.</li> <li>The rack rotates to bring the specified color toner cartridge to the replacement position. When the rack has stopped moving, the message [OPEN DOOR/REPLACE TONER (color)] appears on the display.</li> <li>Open the top cover and replace the toner cartridge.</li> <li>Close the top cover. The initial screen will then reappear.</li> </ol>

#### B. REPLACE TONER ALL

Function	<ul style="list-style-type: none"> <li>Moves each toner cartridge to the appropriate position, one by one, to allow all of the toner cartridges to be replaced with new ones.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To allow all of the toner cartridges to be replaced.</li> </ul>
Setting /procedure	<ol style="list-style-type: none"> <li>Select [REPLACE TONER ALL].</li> <li>The rack rotates to bring the first color toner cartridge to the replacement position. When the rack has finished moving, the message [OPEN DOOR/REPLACE TONER C] appears on the display.</li> <li>Open the top cover and replace the toner cartridge.</li> <li>Close the top cover. Then, the message [OPEN DOOR/REPLACE TONER K] appears on the display.</li> <li>Repeating the same steps, replace all toner cartridges with new ones.</li> </ol> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>The toner cartridges are to be replaced in the order of <b>C → K → Y → M</b>.</li> </ul> <ol style="list-style-type: none"> <li>Close the top cover. The initial screen will then reappear.</li> </ol>

### 9.4.2 TONER EMPTY

Function	<ul style="list-style-type: none"> <li>Specifies whether to stop or continue printing when a toner empty condition is detected.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To permit printing upon a toner empty condition.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is STOP.</li> </ul> <div style="display: flex; justify-content: space-around; margin: 10px 0;"> <span>"STOP"</span> <span>CONTINUE</span> </div> <ul style="list-style-type: none"> <li>When [STOP] is selected                     <ul style="list-style-type: none"> <li>The print cycle is stopped when the toner consumption rate becomes 0%.</li> <li>The message shown on the control panel reads [TONER LIFE END.]</li> <li>Only the orange LED stays lit up steadily.</li> </ul> </li> <li>When [CONTINUE] is selected                     <ul style="list-style-type: none"> <li>A print cycle can be carried out even when the toner consumption rate becomes 0%.</li> <li>The message shown on the control panel reads [TONER LIFE END.]</li> <li>Both the green and orange LEDs blink.</li> <li>The print cycle is stopped after 6K printed pages have been produced.</li> <li>The message shown on the control panel reads [TONER LIFE END.]</li> <li>Only the orange LED stays lit up steadily.</li> </ul> </li> </ul>



**9.4.3 ENERGY SAVER**

Function	<ul style="list-style-type: none"> <li>Sets the amount of time after the last job was printed or the last key operated before the machine enters energy saver mode.</li> <li>Energy saver mode is automatically canceled when any of the following operations is performed: <ul style="list-style-type: none"> <li>The machine is restarted.</li> <li>A print job is received.</li> <li>Any key on the control panel is pressed.</li> <li>The front cover or top cover is opened and closed.</li> </ul> </li> </ul>
Use	<ul style="list-style-type: none"> <li>To change the amount of time before the machine enters energy saver mode.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is 30 MINUTES.</li> </ul> <p>15 MINUTES      "30 MINUTES"      60 MINUTES      120 MINUTES *</p> <p>* Displayed only on the model for the Americas.</p> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li><b>This menu is displayed only on 110V models when ENGINE/SERVICE/ ENERGY SAVER is set to ON.</b></li> </ul>

**9.4.4 AUTO CONTINUE**

Function	<ul style="list-style-type: none"> <li>Enables or disables printing when the size of the media loaded in the tray does not match that of the print data.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To print data on the media loaded in the tray if the media loaded in the tray does not match that of the print data.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The setting can be changed during printing.</li> <li>The default setting is ON.</li> </ul> <p>"ON"      OFF</p>

**9.4.5 TRAY CHAINING**

Function	<ul style="list-style-type: none"> <li>Allows a print cycle to continue without interruption when the current tray runs out of media during the print cycle by automatically reselecting Tray 2, in which the media of the same size and the same type is loaded.</li> <li>The setting is enabled when the optional Lower Feeder Unit is installed.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To continue printing from a second tray when the first tray runs out of media.</li> </ul>
Setting/procedure	<ul style="list-style-type: none"> <li>The setting can be changed during printing.</li> <li>The default setting is ON.</li> </ul> <p>"ON"      OFF</p>

**9.4.6 SERVICE****A. TOTAL FACE COUNT**

Function	<ul style="list-style-type: none"> <li>Displays the total number of pages printed to date.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To identify the total number of printed pages.</li> </ul>

**B. COLOR FACE COUNT**

Function	<ul style="list-style-type: none"> <li>Displays the total number of pages printed in color.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To identify the total number of color pages printed.</li> </ul>

**C. BW FACE COUNT**

Function	• Displays the total number of monochrome pages printed to date.
Use	• To identify the total number of monochrome pages printed.

**D. CONTROLLER VER.**

Function	• Displays the version of the controller firmware currently installed.
Use	<ul style="list-style-type: none"> <li>• To help determine whether the controller firmware needs to be upgraded.</li> <li>• To identify the controller firmware version when the image processing board is replaced.</li> </ul>

**E. ENGINE VER.**

Function	• Displays the version of printer engine firmware currently installed.
Use	• To identify the printer engine firmware version when the printer control board is replaced.

**F. COLOR CALIBRATION**

Function	• Executes color calibration.
Use	<ul style="list-style-type: none"> <li>• To calibrate the engine when there are print image quality problems.</li> <li>• To calibrate the engine when the transfer belt unit and transfer roller are replaced with new ones.</li> </ul>
Setting /procedure	<ol style="list-style-type: none"> <li>1. Select [COLOR CALIBRATION] and press the Menu Select key.</li> <li>2. The color calibration is executed and, when it is completed, the initial screen reappears.</li> </ol>

**G. REMOVE ALL TONER**

Function	• Moves each color toner cartridge to the appropriate replacement position, one by one, to allow all of the toner cartridges to be removed.
Use	• To allow all of the toner cartridges to be removed.
Setting /procedure	<ol style="list-style-type: none"> <li>1. Select [REMOVE ALL TONER].</li> <li>2. The rack rotates to bring the first color toner cartridge to the replacement position. When the rack stops moving, the message [OPEN DOOR/REMOVE TONER C] appears on the display.</li> <li>3. Open the top cover and remove the toner cartridge.</li> <li>4. Close the top cover. then, the message [OPEN DOOR/REMOVE TONER K] appears on the display.</li> <li>5. Repeating the same steps, remove the remaining toner cartridges.</li> </ol> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>• <b>The toner cartridges are to be removed in the order of C → K → Y → M.</b></li> </ul> <ol style="list-style-type: none"> <li>6. Close the top cover. the initial screen will then reappear.</li> </ol>

**H. ENERGY SAVER****NOTE**

- This menu is displayed only on 110V models.

Function	• Selects whether to use energy saver or not.
Use	• To enable or disable energy saver.
Setting /procedure	• The default setting is ON. "ON" OFF

**I. RESTORE USER DEFAULT**

Function	<ul style="list-style-type: none"> <li>• Resets the [ENERGY SAVER], [AUTO CONTINUE], [TRAY CHAINING], [DUPLEX DENSITY], [ALTITUDE SETUP] and [TRANSFER VOLTAGE] values to their factory default settings.</li> <li>• Resets the administrator password to its factory default setting.</li> </ul>
Use	• To reset the [ENERGY SAVER], [AUTO CONTINUE], [TRAY CHAINING], [DUPLEX DENSITY], [ALTITUDE SETUP], and [TRANSFER VOLTAGE] menus and administrator password to their factory default settings.
Setting /procedure	<ol style="list-style-type: none"> <li>1. Select [RESTORE USER DEFAULT] and press the Menu Select key.</li> <li>2. This initializes the setting values of the functions involved are reset to their factory default values, and the Engine/Service menu reappears.</li> </ol>

**J. DUPLEX DENSITY**

Function	• Adjusts the T/C ratio control level when a faulty image density occurs due to changes in weather or environment.
Use	• To adjust the T/C ratio changes to compensate for changes in the user's operating environment during 2-sided printing.
Setting /procedure	<ul style="list-style-type: none"> <li>• The default setting is 0.</li> <li>1. With [RESTORE USER DEFAULT] selected, hold down the ▼ key for 2 seconds or more.</li> <li>2. Select [DUPLEX DENSITY] using the ◀ or ▶ key and press the Menu Select key.</li> <li>3. In [DUPLEX DENSITY] selected, press the ◀ or ▶ key as necessary to select the appropriate density level value.</li> <li>4. Press the Menu Select key to accept the new density level setting.</li> </ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>• This setting is available only when a Duplex Option is installed.</li> </ul>
Adjustment range	• -3 to +3

K. ALTITUDE SETUP

Function	<ul style="list-style-type: none"><li>Optimizes the image by varying the output value of the developing bias when an image problem occurs as affected by the atmospheric pressure in high altitudes.</li></ul>										
Use	<ul style="list-style-type: none"><li>To adjust the developing bias when an image problem (uneven density) occurs in an environment of low atmospheric pressure at high altitudes.</li></ul>										
Setting /procedure	<ul style="list-style-type: none"><li>The default setting is 0.</li><li>1. With [RESTORE USER DEFAULT] selected, hold down the ▼ key for 2 seconds or more.</li><li>2. Select [ALTITUDE SETUP] using the ◀ or ▶ key and press the Menu Select key.</li><li>3. In [ALTITUDE SETUP], press the ◀ or ▶ key as necessary to select the appropriate altitude setting value.</li></ul> <table><tr><th>Setting value</th><th>Developing bias value</th></tr><tr><td>0</td><td>No offset</td></tr><tr><td>1</td><td>100 V</td></tr><tr><td>2</td><td>200 V</td></tr><tr><td>3</td><td>300 V</td></tr></table> <ul style="list-style-type: none"><li>4. Press the Menu Select key to accept the new setting.</li></ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"><li>After changing this setting, be sure to run [COLOR CALIBRATION] ([ENGINE] → [SERVICE]).</li></ul>	Setting value	Developing bias value	0	No offset	1	100 V	2	200 V	3	300 V
Setting value	Developing bias value										
0	No offset										
1	100 V										
2	200 V										
3	300 V										
Adjustment range	<ul style="list-style-type: none"><li>0 to 3</li></ul>										

L. TRANSFER VOLTAGE

Function	<ul style="list-style-type: none"><li>• Adjusts image characteristics according to user requirements for each type of media by varying the second transfer voltage.</li></ul>																				
Use	<ul style="list-style-type: none"><li>• To adjust the second transfer voltage when an image problem (void areas, white spots) occurs due to the characteristics of the type of media being used.<ul style="list-style-type: none"><li>If white spots occur, decrease the 2nd transfer voltage (adjust in the minus direction).</li><li>If void areas occurs, increase the 2nd transfer voltage (adjust in the plus direction).</li></ul></li></ul>																				
Setting /procedure	<ul style="list-style-type: none"><li>• The default setting is 0.</li><li>1. With [RESTORE USER DEFAULT] selected, hold down the ▼ key for 2 seconds or more.</li><li>2. Select [TRANSFER VOLTAGE] using the ◀ or ▶ key and press the Menu Select key.</li><li>3. In [TRANSFER VOLTAGE], press the ◀ or ▶ key as necessary to select the appropriate voltage value.</li></ul> <table><tr><th>Setting value</th><th>Voltage value</th><th>Setting value</th><th>Voltage value</th></tr><tr><td>-3</td><td>-600 V</td><td>+1</td><td>+200 V</td></tr><tr><td>-2</td><td>-400 V</td><td>+2</td><td>+400 V</td></tr><tr><td>-1</td><td>-200 V</td><td>+3</td><td>+600 V</td></tr><tr><td>0</td><td>0 V</td><td></td><td></td></tr></table> <ul style="list-style-type: none"><li>4. Press the Menu Select key to accept the new voltage setting.</li></ul>	Setting value	Voltage value	Setting value	Voltage value	-3	-600 V	+1	+200 V	-2	-400 V	+2	+400 V	-1	-200 V	+3	+600 V	0	0 V		
Setting value	Voltage value	Setting value	Voltage value																		
-3	-600 V	+1	+200 V																		
-2	-400 V	+2	+400 V																		
-1	-200 V	+3	+600 V																		
0	0 V																				
Adjustment range	<ul style="list-style-type: none"><li>• -3 to +3</li></ul>																				

## 9.5 NETWORK

### 9.5.1 DHCP:XX / BOOTP:XX

Function	<ul style="list-style-type: none"> <li>DHCP : Automatically acquires an IP address from the DHCP server, if there is one in the network, and specifies whether to load other network information.</li> <li>BOOTP : Automatically acquires an IP address from BOOTP and specifies whether to load other network information.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To automatically acquire an IP address and load other network information.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>Turn "ON" either [DHCP] or [BOOTP] or "OFF" both.</li> <li>The default setting is [DHCP]: ON / [BOOTP]: OFF.</li> </ul> <p>"DHCP:ON / BOOTP:OFF"   DHCP:OFF / BOOTP:ON   DHCP:OFF / BOOTP:OFF</p>

### 9.5.2 IP ADDRESS

Function	<ul style="list-style-type: none"> <li>Sets the IP address of the printer on the network.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To enter the printer's IP address.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>Enter the IP address using the ▲, ▼, ◀, and ▶ arrow keys.</li> <li>The default setting is 192.168.1.2.</li> </ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>Before manually setting the IP address, turn OFF DHCP and BOOTP in the [NETWORK] → [DHCP:XX/BOOTP:XX] menu.</li> </ul>

### 9.5.3 SUBNET MASK

Function	<ul style="list-style-type: none"> <li>Sets the subnet mask of the printer used on the network.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To enter the printer's subnet mask.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>Enter the subnet mask using the ▲, ▼, ◀, and ▶ arrow keys.</li> <li>The default setting is 255.255.255.0.</li> </ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>Before manually setting the subnet mask, turn OFF DHCP and BOOTP in the [NETWORK] → [DHCP:XX/BOOTP:XX] menu.</li> </ul>

### 9.5.4 GATEWAY

Function	<ul style="list-style-type: none"> <li>Sets the gateway address of the printer used on the network.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To enter the printer's gateway address.</li> </ul>
Setting/ procedure	<ul style="list-style-type: none"> <li>Enter the gateway address using the ▲, ▼, ◀, and ▶ arrow keys.</li> <li>The default setting is 192.168.1.1.</li> </ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>Before manually setting the gateway address, turn OFF DHCP and BOOTP in the [NETWORK] → [DHCP:XX/BOOTP:XX] menu.</li> </ul>

9.5.5 MAC ADDRESS

Function	• Displays the ethernet hardware address of the printer.
Use	• To display the printer's ethernet hardware address.
Setting /procedure	• The address is displayed only and cannot be altered.

9.5.6 HTTP

Function	• Specifies whether to access PageScope Web Connection and to use the IPP protocol or not.
Use	• To specify whether to use IPP and access PageScope Web Connection.
Setting /procedure	• The machine must be restarted after the setting has been changed. • The default setting is ON. <div>“ON” OFF</div>

9.5.7 SNMP

Function	• Specifies whether to use the SNMP protocol or not.
Use	• To specify whether to use SNMP.
Setting /procedure	• The machine must be restarted after the setting has been changed. • The default setting is ON. <div>“ON” OFF</div>

9.5.8 FORCED MODES

Function	• Sets the network speed, duplex mode, and negotiation of the printer if it is connected to the network via a network hub.
Use	• To set the printer's network speed, duplex mode, and negotiation. • The default setting of [AUTO/AUTO/ON] usually presents no problem. If special settings are made for a network hub in the printer setup environment, however, the settings must be changed to match those on the network side.
Setting /procedure	• Settings Network speed (SPEED): AUTO, 100Mbps, 10Mbps Duplex mode (DUP): AUTO, Full-duplex mode, Half-duplex mode Negotiation (NEG.): ON, OFF • The default setting is AUTO/AUTO/ON. <div>“AUTO/AUTO/ON”    AUTO/FULL/ON    AUTO/HALF/ON    100M/AUTO/ON 100M/FULL/ON    100M/FULL/OFF    100M/HALF/ON    100M/HALF/OFF 10M/AUTO/ON    10M/FULL/ON    10M/FULL/OFF    10M/HALF/ON 10M/HALF/OFF</div>

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magicolor 2530 DL  
magicolor 2550/2550DN

Adjustment / Setting

## 9.6 CONSUMABLE USAGE

### 9.6.1 BLACK TONER

Function	• Displays the remaining life of the toner cartridge (K) as a percentage.
Use	• To monitor the amount of life remaining in the toner cartridge (K).

### 9.6.2 CYAN TONER

Function	• Displays the remaining life of the toner cartridge (C) as a percentage.
Use	• To monitor the amount of life remaining in the toner cartridge (C).

### 9.6.3 MAGENTA TONER

Function	• Displays the remaining life of the toner cartridge (M) as a percentage.
Use	• To monitor the amount of life remaining in the toner cartridge (M).

### 9.6.4 YELLOW TONER

Function	• Displays the remaining life of the toner cartridge (Y) as a percentage.
Use	• To monitor the amount of life remaining in the toner cartridge (Y).

### 9.6.5 DRUM CARTRIDGE

Function	• Displays the remaining life of the drum cartridge as a percentage.
Use	• To monitor the amount of life remaining in the drum cartridge.

## 9.7 DIRECT PRINT

### 9.7.1 IMAGE QUALITY

Function	<ul style="list-style-type: none"><li>• Sets the output resolution for camera direct photo printing.</li></ul>
Use	<ul style="list-style-type: none"><li>• To change the output resolution for camera direct photo printing.</li><li>• The output resolution for each setting is as follows.<div>DRAFT : 600 dpi x 600 dpi</div><div>NORMAL : 600 dpi x 1200 dpi</div><div>FINE : 600 dpi x 2400 dpi</div></li></ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"><li>• <b>To select NORMAL and FINE mode, an additional 128 MB of memory needs to be installed. Only DRAFT mode is available with the printer's base memory.</b></li></ul>
Setting /procedure	<ul style="list-style-type: none"><li>• The default setting is DRAFT.</li></ul> <div><div>"DRAFT"</div><div>NORMAL</div><div>FINE</div></div>

9.7.2 PAPER SIZE

Function	• sets the media size for camera direct photo printing.
Use	• To change the media size for camera direct photo printing.
Setting /procedure	<div>• The default setting is A4 or LETTER.</div> <div>“LETTER”   “A4”                      A5                      STATEMENT                      J-POSTCARD</div> <div>PHOTO SIZE 4X6                      PHOTO SIZE 10X15                      LTR 2-UP 4X6</div> <div>A4 4-UP L SIZE                      A4 2-UP 10X15</div> <div><b>NOTE</b></div> <div>• <b>LETTER is the default setting for the Americas, and A4 is the default setting for all other regions.</b></div>

9.7.3 MEDIA TYPE

Function	• Sets the type of media for camera direct photo printing.
Use	• To change the media type for camera direct photo printing.
Setting /procedure	<div>• The default setting is PLAIN PAPER.</div> <div>“PLAIN PAPER”   THICK STOCK   GLOSSY   POSTCARD   LABELS</div>

9.7.4 LAYOUT

Function	• Sets the number of images printed on one page for camera direct photo printing.
Use	• To specify the number of camera direct photo printing images to be printed on each sheet.
Setting /procedure	<div>• The default setting is 1-UP.</div> <div><div>“1-UP”   <div>1</div></div><div>2-UP   <div>1</div><div>2</div></div><div>3-UP   <div>1</div><div>2</div><div>3</div></div><div>4-UP   <div>1</div><div>2</div><div>3</div><div>4</div></div><div>6-UP   <div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div></div><div>8-UP   <div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div>

9.7.5 BRIGHTNESS

Function	• Changes the color density of the printed image for camera direct photo printing.
Use	• To make a camera direct photo printing image brighter.
Setting /procedure	<div>• The default setting is OFF.</div> <div>ON                      “OFF”</div>



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magicolor 2550/2550DN

9.7.6 SHARPNESS

Function	• Changes sharpness of the printed image for camera direct photo printing.
Use	• To make a printed camera direct photo printing image look sharper by emphasizing its outlines.
Setting /procedure	• The default setting is OFF. ON "OFF"

9.7.7 AUTO ROTATE

Function	• Rotates the image 90 degree in the clockwise direction for camera direct photo printing.
Use	• To print the camera direct photo printing image in portrait format.
Setting /procedure	• The default setting is OFF. ON "OFF"
<b>NOTE</b> • This option is available only when [DIRECT PRINT] → [LAYOUT] is set to [1-UP] or [4-UP].	

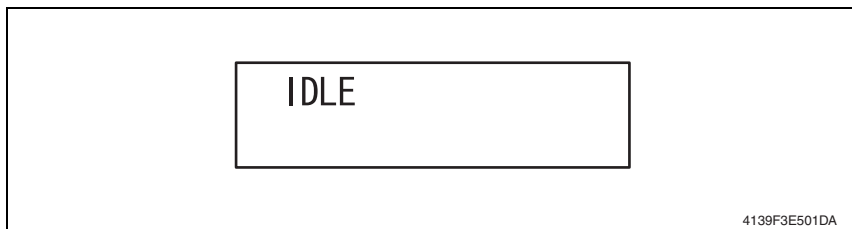
Adjustment / Setting

## 10. Description of the control panel (magicolor 2550/magicolor 2550DN)

### 10.1 Control panel display

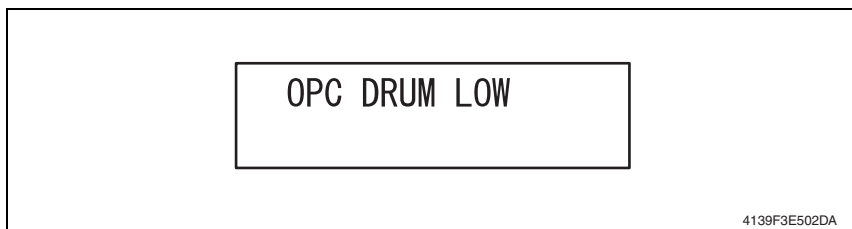
#### 10.1.1 Basic screen

- The basic screen is the initialization screen that displays when warmup is complete or when you exit from the configuration menu.



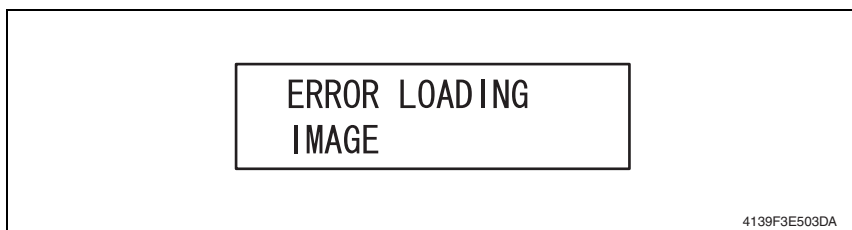
#### 10.1.2 Caution display

- A caution display appears when an event occurs that requires user intervention, but does not affect printing.



#### 10.1.3 Error display

- This display appears when an error occurs that can be taken care of by the user.



**10.1.4    Malfunction screen**

- This screen appears when a malfunction occurs that requires a service technician.



## 10.2 List of control panel messages

### 10.2.1 Standard status messages

- Normal state messages are displayed on the upper line of the LCD.

Message	Description
IDLE	• Ready to print.
PROCESSING	• Processing data.
PRINTING	• Printing.
WARMING UP	• Warming up.
CALIBRATING	• Calibrating. Whenever you replace a toner cartridge or reboot the printer after making an environmental change, the printer automatically pauses to do an automatic image density control (AIDC) cycle. This process is provided to make reliable printer operation with optimum output quality possible.
ENERGY SAVER	• Energy saver mode.
CANCELLING JOB	• Canceling a job.
COPYING (XXX/XXX)	• The machine is copying with the collating function.
PRINTING (XXX/XXX)	• The machine is printing with the collating function.
FIRMWARE UPDATE WRITING IMAGE	• The firmware is being updated.
INITIALIZING	• The printer is being initialized.
MAGICOLOR 2550 STARTING SYSTEM	• The printer is starting up.

### 10.2.2 Caution messages

Message	Description
CANNOT ROTATE CARTRIDGE	• A problem occurred while the toner cartridge carousel was rotating.
DISK NEAR FULL	• The hard disk is nearly full.
X EMPTY	• The specified color of toner cartridge is empty.  <b>NOTE</b> • <b>Appears when [QUALITY MENU] → [TONER OUT ACTION] is set to [CONTINUE].</b>
X INCORRECT	• The specified color of toner cartridge is not a genuine KONICAMINOLTA toner cartridge or not the correct type.
X TONER LOW	• The specified color of toner cartridge is low and should be replaced within 200 pages at 5% coverage of Letter/A4 pages.
OPC DRUM LOW	• The drum cartridge will soon run out.
OPC DRUM OUT	• The drum cartridge is empty.
TRAY 2 OPEN (When the Ready indicator is lit)	• Tray 2 is not installed or not fully inserted into the printer.
MEDIA MISMATCH	• The media type set in the printer driver is different from the type of media loaded.

Message	Description
PAPER MISMATCH	<ul style="list-style-type: none"> <li>The media size set in the printer driver is different from the size media loaded in Tray1.</li> </ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li><b>Appears when [PAPER MENU] → [INPUT TRAY] → [AUTO CONTINUE] is set to [OFF].</b></li> </ul>

### 10.2.3 Error messages

Message	Description
AIDC ERROR	<ul style="list-style-type: none"> <li>The AIDC sensor has developed a malfunction of some sort.</li> </ul>
DISK ERROR	<ul style="list-style-type: none"> <li>The hard disk is full or damaged.</li> </ul>
DISK FULL	<ul style="list-style-type: none"> <li>The hard disk is full.</li> </ul>
DUPLEX UNIT PANEL OPEN	<ul style="list-style-type: none"> <li>The duplex option cover is open.</li> </ul>
REPLACE X TONER	<ul style="list-style-type: none"> <li>The specified color of toner cartridge is empty.</li> </ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li><b>This message appears when [QUALITY MENU] → [TONER OUT ACTION] is set to [STOP].</b></li> </ul>
FIRMWARE UPDATE FOMAT ERROR	<ul style="list-style-type: none"> <li>An error occurred while the firmware was being initialized.</li> </ul>
FIRMWARE UPDATE INVALID IMAGE	<ul style="list-style-type: none"> <li>The downloaded system image is corrupted or the version is incorrect.</li> </ul>
MAIN UNIT COVER OPEN	<ul style="list-style-type: none"> <li>The front cover of the machine is open.</li> </ul>
OPC DRUM MISSING	<ul style="list-style-type: none"> <li>The drum cartridge is not installed.</li> </ul>
PAPER JAM XXXX	<ul style="list-style-type: none"> <li>A media jam has occurred at the specified location.</li> </ul>
PUT "SIZE" "TYPE" IN ANY TRAY	<ul style="list-style-type: none"> <li>The media type set in the printer driver is different from the type of media loaded into the specified tray.</li> </ul>
PUT "SIZE" "TYPE" IN TRAY 1	<ul style="list-style-type: none"> <li>The media size set from the printer driver is different from the size of media loaded in Tray 1.</li> </ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li><b>This message appears when [PAPER MENU] → [INPUT TRAY] → [TRAY 1 MODE] is set to [CASSETTE].</b></li> </ul>
PUT "SIZE" "TYPE" IN TRAY 2	<ul style="list-style-type: none"> <li>The media size set from the printer driver is different from the size of media loaded in Tray 2.</li> </ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li><b>This message appears when [PAPER MENU] → [INPUT TRAY] → [AUTO CONTINUE] is set to [OFF].</b></li> </ul>
REPLACE OPC DRUM	<ul style="list-style-type: none"> <li>The drum cartridge is empty.</li> </ul>
X TONER MISSING	<ul style="list-style-type: none"> <li>The specified color of toner cartridge is not installed.</li> </ul>

10.2.4 Malfunction messages

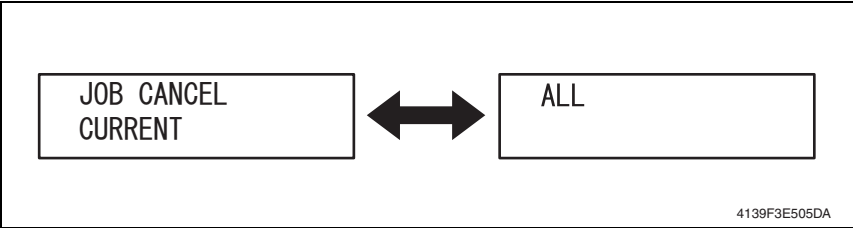
For details of malfunction messages and troubleshooting procedures, see “Troubleshooting”.

Message	Description
FIRMWARE UPDATE WRITING ERROR	• Data cannot be written since the flash memory is damaged.
SERVICE CALL XX	• The engine or controller is faulty.

10.3 Cancelling a print job

- A print job being processed or printed can be cancelled by pressing the Cancel key.
1. If the Cancel key is pressed while a print job is being printed, a message appears on the control panel.
  2. Select the job to be cancelled using the right or left arrow key and press the Menu Select key.

Panel display	Description
JOB CANCEL CURRENT	Cancels the job being currently printed.
ALL	Cancels all jobs the machine has so far received but has not yet finished printing.



11. MENU (magicolor 2550/magicolor 2550DN)

11.1 List of MENU functions

- \*1: This setting is available only when an optional Hard Disk is installed.  
\*2: This setting is available only when an optional Lower Feeder Unit is installed.  
\*3: This setting is available only when a Duplex Option is installed.  
\*4: This menu item appears only on 110 V units.  
\*5: This menu item appears only on magicolor 2550DN.

MENU				Ref. page
PROOF/PRINT MENU <sup>*1</sup>				P.104
PRINT MENU	MENU MAP		P.105	
	CONFIGURATION		P.105	
	STATISTICS PAGE		P.105	
	FONT LIST	POSTSCRIPT		P.105
		PCL		P.105
	DIRECTORY LIST		P.106	
	DEMO		P.106	
PAPER MENU	INPUT TRAY	TRAY 1 MODE		P.106
		TRAY 1		P.106
		TRAY 2 <sup>*2</sup>		P.107
		CUSTOM SIZE		P.107
		AUTO CONTINUE		P.108
		TRAY CHAINING <sup>*2</sup>		P.108
		MAP <sup>*2</sup>	MODE	P.108
			LOGICAL TRAY 0-9	P.108
	DUPLEX <sup>*3</sup>			P.109
	ORIENTATION			P.109
	PAGE RECOVERY			P.109
	QUALITY MENU	REPLACE TONER	BLACK	
CYAN				
MAGENTA				
YELLOW				
TONER OUT ACTION			P.110	
AIDC		REQUEST AIDC		P.110
		MODE		P.110
DENSITY CONTROL		BLACK		P.110
		CYAN		
		MAGENTA		
		YELLOW		
CAMERA DIRECT <sup>*5</sup>	PAPER SOURCE			P.111
	LAYOUT			P.111
	PAPER MARGINE			P.111

MENU				Ref. page
INTERFACE MENU	ETHERNET	TCP/IP	ENABLE	P.112
			DHCP/BOOTP	P.112
			IP ADDRESS	P.112
			DEFAULT ROUTER	P.112
			SUBNET MASK	P.112
			ENABLE HTTP	P.113
			ENABLE AUTO IP	P.113
			IPX/SPX	FRAME TYPE
		ETHERTALK	NAME	P.113
			NAME2	P.113
			NETZONE	P.114
			NETZONE2	P.114
	ETHERNET SPEED		P.114	
	PS PROTOCOL		P.114	
	USB	ENABLE	P.114	
JOB TIMEOUT		P.115		
PARALLEL	JOB TIMEOUT	P.115		
ACTIVE I/F			P.115	
SYSTEM DEFAULT	PRINT QUALITY			P.115
	COLOR MODE			P.115
	EMULATIONS	DEFAULT		P.116
		AUTO DEFAULT		P.116
		POSTSCRIPT		P.116
		PCL		P.116
	STARTUP OPTIONS	START PAGE		P.117
		SYSSTART *1		P.118
	DATE & TIME *1			P.118
	ENERGY SAVER			P.118
	ENERGY SAVER MGT *4			P.118
	SECURITY	CONFIG		P.119
	CAPTURE PRT JOB *1			P.119
	FORMAT	FORMAT FLASH		P.119
		FORMAT DISK *1		P.120
	RESTORE/SAVE	RESTORE FACTORY		P.120
		SAVE CUSTOM		P.120
		RESTORE CUSTOM		P.120
SERVICE MENU				P.129
LANGUAGE				P.120
ENVIRONMENT MENU				P.121

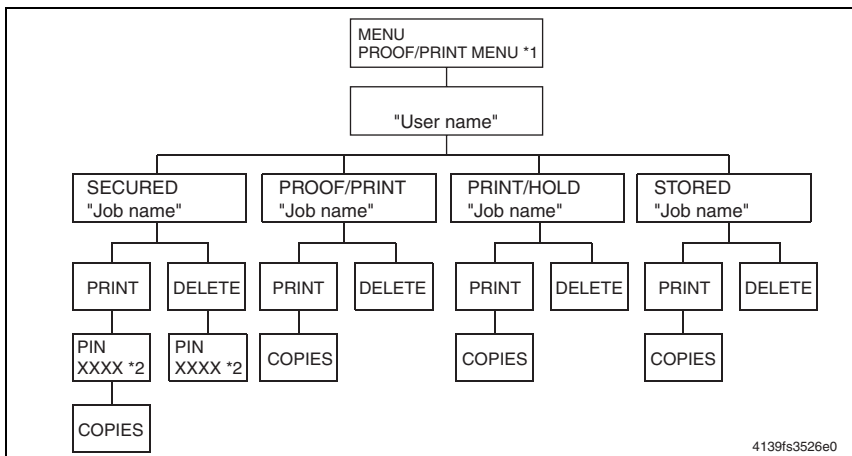


## 11.2 PROOF/PRINT MENU

- With this menu item, print jobs that were set to be saved on the hard disk by using Job Retention on the Basic tab of the printer driver can be printed or deleted.

### NOTE

- This setting is available only when an optional hard disk drive is installed.**
- Job Name limited to 16 characters.**



\*1: If no jobs have been stored on the hard disk, NO STORED JOBS appears.

\*2: In order to print or delete a secured job, enter the four-digit password specified from the printer driver. For details on entering the password, refer to "Entering the password."

### 11.2.1 Entering the password

- In order to print or delete a secured job, the four-digit password specified from the printer driver must be entered. Follow the procedure described below.
  - Press the ▲ and ▼ keys to increase or decrease the first digit of the password.
  - Press the ► key to move the cursor to the next digit.
  - Press the ▲ and ▼ keys to increase or decrease the second digit of the password.
  - Continue these steps until all four digits of the password are specified.
  - Press the Menu Select key.  
The PRINT/DELETE selection screen appears.

### NOTE

- If an incorrect password is entered, INVALID ENTRY appears and the screen for entering the password appears again.**

## 11.3 PRINT MENU

### 11.3.1 MENU MAP

Function	• Prints the menu map.
Use	• To check the available menu settings.
Setting /procedure	• Select [MENU MAP] and press the Menu Select key.

### 11.3.2 CONFIGURATION

Function	• Prints the configuration page.
Use	• To check configuration of the machine. The following items can be checked: Printer Information Printer Interfaces INSTALLED OPTIONS PAPER SETTINGS
Setting /procedure	• Select [CONFIGURATION] and press the Menu Select key.

### 11.3.3 STATISTICS PAGE

Function	• Prints the statistics page.
Use	• To check the consumable status and the usage of the machine, such as the number of pages printed.
Setting /procedure	• Select [STATISTICS PAGE] and press the Menu Select key.

### 11.3.4 FONT LIST

#### A. POSTSCRIPT

Function	• Prints a list of PostScript fonts.
Use	• To check the available PostScript fonts.
Setting /procedure	• Select [FONT LIST] → [POSTSCRIPT] and press the Menu Select key.

#### B. PCL

Function	• Prints a PCL fonts.
Use	• To check the available PCL fonts.
Setting /procedure	• Select [FONT LIST] → [PCL] and press the Menu Select key.

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magicolor 2550/2550DN

11.3.5 DIRECTORY LIST

Function	• Prints a directory list of the hard disk and flash.
Use	• To check the files saved on the hard disk and in flash.
Setting /procedure	• Select [DIRECTORY LIST] and press the Menu Select key.  <b>NOTE</b> • If the hard disk drive is not installed, only the flash directory list is printed.

11.3.6 DEMO

Function	• Prints the demo page.
Use	• To print a demo page.
Setting /procedure	• Select [DEMO] and press the Menu Select key.

11.4 PAPER MENU

11.4.1 INPUT TRAY

A. TRAY 1 MODE

Function	• When printing from Tray 1, selects whether the media size and media type set in the printer driver or the [MEDIA SIZE] and [MEDIA TYPE] settings set by selecting [PAPER MENU] → [INPUT TRAY] → [TRAY 1] in the control panel have priority.
Use	• If [AUTO] is selected, to specify that the printer driver settings have priority during printing. • If [CASSETTE] is selected, to specify that printing is performed when the printer driver settings and the control panel settings are all the same.
Setting /procedure	• The default setting is AUTO. <div><div>AUTO</div><div>CASSETTE</div></div>

B. TRAY 1

(1) MEDIA SIZE

Function	• Specifies the size of the media loaded in Tray 1.																															
Use	• To specify the size of the media loaded in Tray 1.																															
Setting /procedure	<div>• The default setting for North America is LETTER. The default setting for all other regions is A4.</div> <div>• The media sizes available are as follows.</div> <table><tr><td>LETTER</td><td>LEGAL</td><td>EXECUTIVE</td><td>A4</td></tr><tr><td>A5</td><td>B5(JIS)</td><td>GOVT LETTER</td><td>STATEMENT</td></tr><tr><td>FOLIO</td><td>SP FOLIO</td><td>UK QUARTO</td><td>FOOLSCAP</td></tr><tr><td>GOVT LEGAL</td><td>16K</td><td>KAI 16</td><td>32K</td></tr><tr><td>ENV C5</td><td>ENV C6</td><td>ENV DL</td><td>ENV MONARCH</td></tr><tr><td>ENV CHOU#3</td><td>ENV CHOU#4</td><td>B5(ISO)</td><td>ENV #10</td></tr><tr><td>ENV YOU#4</td><td>JPOST</td><td>JPOST-D</td><td>CUSTOM</td></tr></table>				LETTER	LEGAL	EXECUTIVE	A4	A5	B5(JIS)	GOVT LETTER	STATEMENT	FOLIO	SP FOLIO	UK QUARTO	FOOLSCAP	GOVT LEGAL	16K	KAI 16	32K	ENV C5	ENV C6	ENV DL	ENV MONARCH	ENV CHOU#3	ENV CHOU#4	B5(ISO)	ENV #10	ENV YOU#4	JPOST	JPOST-D	CUSTOM
LETTER	LEGAL	EXECUTIVE	A4																													
A5	B5(JIS)	GOVT LETTER	STATEMENT																													
FOLIO	SP FOLIO	UK QUARTO	FOOLSCAP																													
GOVT LEGAL	16K	KAI 16	32K																													
ENV C5	ENV C6	ENV DL	ENV MONARCH																													
ENV CHOU#3	ENV CHOU#4	B5(ISO)	ENV #10																													
ENV YOU#4	JPOST	JPOST-D	CUSTOM																													

Adjustment / Setting

**(2) MEDIA TYPE**

Function	• Specifies the setting for the type of media loaded in Tray 1.			
Use	• To specify the type of media loaded in Tray 1.			
Setting /procedure	• The default setting is PLAIN PAPER.  <div style="display: flex; justify-content: space-around;"> <div>“PLAIN PAPER” LABEL</div> <div>THICK POSTCARD</div> <div>TRANSPARENCY ENVELOPE</div> <div>LETTERHEAD GLOSSY</div> </div>			

### C. TRAY 2

**(1) MEDIA SIZE**

Function	<ul style="list-style-type: none"> <li>Specifies the size of the media loaded in Tray 2.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To specify the size of the media loaded in Tray 2.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting for North America is LETTER. The default setting for all other regions is A4.</li> </ul> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span>LETTER</span> <span>A4</span> </div> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li><b>This setting is available only when an optional Lower Feeder Unit is installed.</b></li> </ul>

**(2) MEDIA TYPE**

Function	<ul style="list-style-type: none"> <li>Specifies the setting for the type of media loaded in Tray 2.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To specify the type of media loaded in Tray 2.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is PLAIN PAPER.</li> </ul> <div style="text-align: center;">             PLAIN PAPER                      LETTERHEAD           </div> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li><b>This setting is available only when an optional Lower Feeder Unit is installed.</b></li> </ul>

#### D. CUSTOM

**(1) WIDTH**

Function	<ul style="list-style-type: none"> <li>Specifies the width of the custom-sized media in Tray 1.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To specify the width of the custom-sized media in Tray 1.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>On the model for North America, the settings appear in inches and the menu item appears as [WIDTH(IN)]. On the models for all other regions, the settings appear in millimeters and the menu item appears as [WIDTH(MM)].</li> <li>The default setting is 92.0 mm (3.62 in.).</li> </ul> <p style="text-align: center;">92.0 to 216.0 mm (3.62 to 8.50 in.)</p>

**(2) LENGTH**

Function	<ul style="list-style-type: none"> <li>Specifies the length of the custom-sized media in Tray 1.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To specify the length of the custom-sized media in Tray 1.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>On the model for North America, the settings appear in inches and the menu item appears as [LENGTH(IN)]. On the models for all other regions, the settings appear in millimeters and the menu item appears as [LENGTH(MM)].</li> <li>The default setting is 148.0 mm (5.83 in.).</li> </ul> <p style="text-align: center;">148.0 to 356.0 mm (5.83 to 14.02 in.)</p>

**E. AUTO CONTINUE**

Function	<ul style="list-style-type: none"> <li>Enables or disables printing when the size of the media loaded in the tray does not match that of the print data.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To print data on the media loaded in the tray of the media loaded in the tray does not match that of the print data.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is OFF.</li> </ul> <div> <div>"OFF"</div> <div>ON</div> </div>

**F. TRAY CHAINING**

Function	<ul style="list-style-type: none"> <li>Allows a print cycle to continue without interruption when the current tray runs out of media during the print cycle by automatically reselecting another tray, in which the media of the same size and the same type is loaded.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To allow media to be pulled from another tray when the media in the first tray runs out.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is YES.</li> </ul> <div> <div>"YES"</div> <div>NO</div> </div> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li><b>This setting is available only when an optional Lower Feeder Unit is installed.</b></li> </ul>

**G. MAP****(1) MODE**

Function	<ul style="list-style-type: none"> <li>Selects whether or not the Tray Mapping function is used.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To specify whether trays are mapped.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is ON.</li> </ul> <div> <div>"ON"</div> <div>OFF</div> </div>

**(2) LOGICAL TRAY 0-9**

Function	<ul style="list-style-type: none"> <li>Specifies whether jobs received from another manufacturer's printer driver are printed using Tray 1 or Tray 2.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To specify the media source for print jobs using another manufacturer's printer driver.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>Only the default for LOGICAL TRAY 2 is PHYSICAL TRAY 2. PHYSICAL TRAY 1 is the default for all trays other than LOGICAL TRAY 2.</li> </ul> <div> <div>PHYSICAL TRAY 1</div> <div>PHYSICAL TRAY 2</div> </div>

11.4.2     **DUPLEX**

Function	<ul style="list-style-type: none"><li>• Selects whether or not the duplex print function is used.</li></ul>
Use	<ul style="list-style-type: none"><li>• To use the duplex print function.        OFF               : Duplex printing is not possible.       SHORT EDGE   : The pages will be printed on both sides of the media for short-edge binding.       LONG EDGE    : The pages will be printed on both sides of the media for long-edge binding.</li></ul>
Setting /procedure	<ul style="list-style-type: none"><li>• The default setting is OFF.        "OFF"                         SHORT EDGE                 LONG EDGE  <b>NOTE</b><ul style="list-style-type: none"><li>• <b>This setting is available only when a Duplex Option is installed.</b></li></ul></li></ul>

11.4.3     **ORIENTATION**

Function	<ul style="list-style-type: none"><li>• Specifies the orientation of the media.</li></ul>
Use	<ul style="list-style-type: none"><li>• To change the orientation of the media.</li></ul>
Setting /procedure	<ul style="list-style-type: none"><li>• The default setting is PORTRAIT.                                "PORTRAIT"                         LANDSCAPE</li></ul>

11.4.4     **PAGE RECOVERY**

Function	<ul style="list-style-type: none"><li>• Selects whether or not the page is printed again after recovering from a media misfeed.</li></ul>
Use	<ul style="list-style-type: none"><li>• To specify the point from which printing should continue after a media misfeed.        ON     : The page that was misfeed is printed again.       OFF    : Printing continues with the next page without reprinting the misfed page.</li></ul>
Setting /procedure	<ul style="list-style-type: none"><li>• The default setting is ON.                                "ON"                                 OFF</li></ul>

11.5     **QUALITY MENU**

11.5.1     **REPLACE TONER**

**A. BLACK/CYAN/MAGENTA/YELLOW**

Function	<ul style="list-style-type: none"><li>• Moves the specified color of toner cartridge into replacement position, so it can be replaced.</li></ul>
Use	<ul style="list-style-type: none"><li>• To replace the specified color of toner cartridge.</li></ul>
Setting /procedure	<ol style="list-style-type: none"><li>1. Select [QUALITY MENU] → [REPLACE TONER] and the specific color of toner to be replaced.</li><li>2. The rack rotates to bring the specified color of toner cartridge to the replacement position. When the rack stops moving, the message [OPEN DOOR AND REPLACE (color) TONER] appears on the display.</li><li>3. Open the top cover and replace the toner cartridge.</li><li>4. Close the top cover. The initial screen will then reappear.</li></ol>

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magicolor 2550/2550DN

11.5.2 TONER OUT ACTION

Function	<ul style="list-style-type: none"><li>Specifies whether to stop or continue printing when a toner empty condition is detected.</li></ul>
Use	<ul style="list-style-type: none"><li>To select to permit printing upon a toner empty condition.</li></ul>
Setting /procedure	<ul style="list-style-type: none"><li>The default setting is STOP.</li></ul> <div>“STOP”CONTINUE</div> <p><b>NOTE</b></p> <ul style="list-style-type: none"><li>When cartridge reaches 6K, printer will stop printing irrespective of [TONER OUT ACTION] set to [STOP] or [CONTINUE].</li></ul>

11.5.3 AIDC

A. REQUEST AIDC

Function	<ul style="list-style-type: none"><li>Executes image adjustments.</li></ul>
Use	<ul style="list-style-type: none"><li>To calibrate the engine when there are print image quality problems.</li><li>To calibrate the engine when the transfer belt unit and transfer roller are replaced with new ones.</li></ul>
Setting /procedure	<ul style="list-style-type: none"><li>The default setting is NO.</li></ul> <div>YES“NO”</div> <ul style="list-style-type: none"><li>If YES is selected, image adjustments are performed.</li></ul>

B. MODE

Function	<ul style="list-style-type: none"><li>Applies the image adjustments</li></ul>
Use	<ul style="list-style-type: none"><li>If ON is selected, to apply the image adjustments.</li><li>If OFF is selected, to not apply image adjustments.</li></ul>
Setting /procedure	<ul style="list-style-type: none"><li>The default setting is ON.</li></ul> <div>“ON”OFF</div>

Adjustment / Setting

11.5.4 DENSITY CONTROL

A. BLACK/CYAN/MAGENTA/YELLOW

Function	<ul style="list-style-type: none"><li>Adjusts the density of the toner to one of five levels.</li></ul>
Use	<ul style="list-style-type: none"><li>To vary the density of the printed image.</li></ul>
Setting /procedure	<ul style="list-style-type: none"><li>The default setting is 3.</li></ul> <div>1 to 5</div>

11.6 CAMERA DIRECT

NOTE

- This menu item appears for magicolor 2550DN only.

11.6.1 PAPER SOURCE

Function	<ul style="list-style-type: none"><li>• The tray that is used can be specified.</li></ul>
Use	
Setting /procedure	<ul style="list-style-type: none"><li>• The default setting is TRAY1.</li></ul> <div>"TRAY1"TRAY2</div> <p><b>NOTE</b></p> <ul style="list-style-type: none"><li>• This setting is available only when an optional Lower Feeder Unit is installed.</li></ul>

11.6.2 LAYOUT

Function	<ul style="list-style-type: none"><li>• Sets the number of images printed on one page for camera direct photo printing.</li></ul>
Use	<ul style="list-style-type: none"><li>• To specify the number of camera direct photo printing images to be printed on each sheet.</li></ul>
Setting /procedure	<ul style="list-style-type: none"><li>• The default setting is 1-UP.</li></ul> <div><div>"1-UP"1</div><div>2-UP12</div><div>3-UP123</div><div>4-UP1234</div><div>6-UP123456</div><div>8-UP12345678</div></div>

11.6.3 PAPER MARGIN

Function	<ul style="list-style-type: none"><li>• Specify the media margin size.</li></ul>
Use	
Setting /procedure	<ul style="list-style-type: none"><li>• The default setting is STANDARD.</li></ul> <div>"STANDARD"MINIMUM</div>



# 11.7 INTERFACE MENU

## 11.7.1 ETHERNET

### A. TCP/IP

#### (1) ENABLE

Function	• Sets whether to enable or disable TCP/IP.
Use	• To disable TCP/IP.
Setting /procedure	• The default setting is YES. "YES" NO

#### (2) DHCP/BOOTP

Function	• Automatically acquires an IP address from the DHCP or BOOTP server, if there is one in the network, and specifies whether to load other network information.
Use	• To automatically acquire an IP address and load other network information.
Setting /procedure	• The default setting is YES. "YES" NO

#### (3) IP ADDRESS

Function	• Sets the IP address of the printer on the network.
Use	• To enter the printer's IP address.
Setting /procedure	• Enter the [IP ADDRESS] using the ▲, ▼, ◀, and ▶ arrow keys. • The default setting is "192.168.1.2."  <b>NOTE</b> • <b>When the printer's IP address is set manually, DHCP/BOOTP is automatically set to OFF.</b>

#### (4) DEFAULT ROUTER

Function	• Sets the IP address of the router if one is on the network.
Use	• To enter the IP address of the router.
Setting /procedure	• Enter the IP address using the ▲, ▼, ◀, and ▶ arrow keys. • The default setting is "000.000.000.000".

#### (5) SUBNET MASK

Function	• Sets the subnet mask of the printer used on the network.
Use	• To enter the printer subnet mask.
Setting /procedure	• Enter the subnet mask using the ▲, ▼, ◀, and ▶ arrow keys. • The default setting is "000.000.000.000".

## (6) ENABLE HTTP

Function	• Specifies whether or not HTTP is used.
Use	• To specify whether HTTP is used.  ON : the Web page provided in the printer by the built-in HTTP server is enabled. OFF: the Web page cannot be used.
Setting /procedure	• The machine must be restarted after the setting has been changed. • The default setting is YES.  “YES” NO

**(7) ENABLE AUTO IP**

Function	<ul style="list-style-type: none"> <li>• Selects whether or not the IP address is automatically acquired when DHCP/BOOTP, PING, and ARP are not functioning or when there is no response.</li> </ul>
Use	<ul style="list-style-type: none"> <li>• To automatically acquire an IP address when DHCP/BOOTP, PING, and ARP are not functioning or when there is no response.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>• The default setting is NO.</li> </ul>
	<div style="display: flex; justify-content: space-around;"> <span>YES</span> <span>"NO"</span> </div>

### B. IPX/SPX

**(1) FRAME TYPE**

Function	• Sets the Ethernet frame type.				
Use	• To specify the Ethernet frame type for transmission.				
Setting /procedure	• The default setting is Auto.				
	“Auto”	802.2	802.3	ETHER II	SNAP

### C. ETHERTALK

**(1) NAME**

Function	<ul style="list-style-type: none"> <li>Specifies the first part of the name of the printer on the Macintosh EtherTalk (AppleTalk) network, so it can be "found."</li> </ul>
Use	<ul style="list-style-type: none"> <li>To set the Printer name displayed on the Macintosh EtherTalk (AppleTalk) network.</li> <li>The printer name can contain a maximum of 16 characters.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is magicolor 2550.</li> </ul>

**(2) NAME 2**

Function	<ul style="list-style-type: none"> <li>Specifies the second part of the name of the printer on the Macintosh EtherTalk (AppleTalk) network, so it can be “found.”</li> </ul>
Use	<ul style="list-style-type: none"> <li>To set the Printer name displayed on the Macintosh EtherTalk (AppleTalk) network.</li> <li>The printer name can contain a maximum of 16 characters.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is NULL.</li> </ul>

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magicolor 2530 DL  
magicolor 2550/2550DN

(3) NETZONE

Function	• Specifies the first part of the Macintosh EtherTalk zone name.
Use	• To set the Zone name on Macintosh EtherTalk (AppleTalk) network where the printer is located. • The zone name can contain a maximum of 16 characters.
Setting /procedure	• The default setting is *.

(4) NETZONE 2

Function	• Specifies the second part of the Macintosh EtherTalk zone name.
Use	• To set the Zone name connected with Macintosh EtherTalk (AppleTalk) network where the printer is located. • The zone name can contain a maximum of 16 characters.
Setting /procedure	• The default setting is NULL.

D. ETHERNET SPEED

Function	• Specifies the transmission speed for the network and the transmission method for bi-directional transmission.
Use	• To set the specific network speed and the transmission method.
Setting /procedure	• The default setting is Auto. <div>“Auto”                      100 Full Duplex                      100 Half Duplex 10 Full Duplex              10 Half Duplex</div> <b>NOTE</b> • <b>Make sure to turn the power switch OFF and ON again after changing the network speed.</b>

Adjustment / Setting

E. PS PROTOCOL

Function	• Selects whether PostScript jobs are received in the binary format or the quoted format.
Use	• To transmit PostScript data in quoted format.
Setting /procedure	• The default setting is BINARY. <div>“BINARY”                      QUOTED BINARY</div>

11.7.2 USB

A. ENABLE

Function	• Specifies whether to enable or disable USB.
Use	• To disable USB.
Setting /procedure	• The default setting is YES. <div>“YES”                      NO</div>

## B. JOB TIMEOUT

Function	<ul style="list-style-type: none"> <li>Specifies the length of time until the print job being received is timed out when the USB interface is being used.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To set the amount of time before a print job sent to the USB interface times out.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is 60 (seconds).</li> </ul> <p style="text-align: right;">0 to 999</p>

### 11.7.3 PARALLEL

## A. JOB TIMEOUT

Function	<ul style="list-style-type: none"> <li>Specifies the length of time until the print job being received is timed out when the parallel interface is being used.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To set the amount of time before a print job sent to the parallel interface times out.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is 30 (seconds).</li> </ul> <p style="text-align: right;">0 to 999</p>

### 11.7.4 ACTIVE I/F

Function	<ul style="list-style-type: none"> <li>Sets the interface to be used.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To set the interface to be used.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is ETHERNET.</li> </ul> <p style="text-align: center;">"ETHERNET"                      PARALLEL</p> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>Only one I/F will work at any given time between [ETHERNET] and [PARALLEL]. Printer will reboot automatically if active I/F is changed.</li> </ul>

## 11.8 SYSTEM DEFAULT MENU

### 11.8.1 PRINT QUALITY

Function	<ul style="list-style-type: none"> <li>Selects the image quality for prints.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To change the image quality setting.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is HIGH.</li> </ul> <p style="text-align: center;">"HIGH"                      STANDARD</p>

### 11.8.2 COLOR MODE

Function	<ul style="list-style-type: none"> <li>Specifies whether printing is in full color or grayscale.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To select color or grayscale printing.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is COLOR.</li> </ul> <p style="text-align: center;">"COLOR"                      GRAYSCALE</p>

11.8.3 EMULATIONS

A. DEFAULT

Function	• Specifies the printer control language.
Use	• To change the printer control language. • If [AUTOMATIC] is selected, the printer automatically selects the printer control language from the data stream.
Setting /procedure	• The default setting is AUTOMATIC. "AUTOMATIC" POSTSCRIPT PCL5 PCL XL HEX DUMP PDF

B. AUTO DEFAULT

Function	• Selects the printer description language when it cannot be identified from the data.
Use	• To set the printer control language to be used when it cannot be automatically identified from the print job.
Setting /procedure	• The default setting is PCL5. "PCL5" POSTSCRIPT

C. POSTSCRIPT

(1) ERROR PAGE

Function	• Sets whether or not an error page is printed when a PostScript error occurs.
Use	• To specify whether an error page should be printed if a PostScript error occurs.
Setting /procedure	• The default setting is ON. "ON" OFF

D. PCL

(1) LINE TERMINATION

Function	• Sets the CR/LF mapping for line termination in the PCL language.
Use	• To change the CR/LF mapping.
Setting /procedure	• The default setting is CR=CR LF=CRLF. "CR=CR LF=CRLF" CR=CR LF=LF CR=CRLF LF=LF CR=CRLF LF=CRLF

(2) FONT

<PITCH SIZE>

Function	• Sets the font pitch size in the PCL language when not specified by the printer driver.
Use	• To set the font pitch size in the PCL language when it cannot be specified by the printer driver during printing from Windows DOS, etc.
Setting /procedure	• The default setting is 1000. 44 to 9999

## &lt;FONT NUMBER&gt;

Function	<ul style="list-style-type: none"> <li>Sets the font in the PCL language when not specified by the printer driver.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To use when the printer driver cannot specify the font during printing from Windows DOS, etc. The font numbers that appear correspond to the PCL font list. <a href="#">See P.105.</a></li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is 0.</li> </ul> <p style="text-align: right;">0 to 32767</p>

<POINT SIZE>

Function	• Sets the font size in the PCL language when not specified by the printer driver.
Use	• To set the font size in the PCL language when it cannot be specified by the printer driver during printing from Windows DOS, etc.
Setting /procedure	• The default setting is 1200.  400 to 99975

<SYMBOL SET>

Function	<ul style="list-style-type: none"> <li>• Sets the font symbol set in the PCL language when not specified by the printer driver.</li> </ul>
Use	<ul style="list-style-type: none"> <li>• To use when the font symbol set cannot be specified by the printer driver during printing from Windows DOS, etc.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>• The default setting is PC8.</li> <li>• The font symbol set available for setting are as follows.  “PC8”, DESKTOP, ISO4, ISO6, ISO11, ISO15, ISO17, ISO21, ISO60, ISO69,  ISOL1, ISOL2, ISOL5, ISOL6, ISOL9, LEGAL, MATH8, MCTEXT, MSPUBL,  PC775, PC850, PC852, PC8DN, PC8TK, PC1004, PIFONT, PSMATH, PSTEXT,  ROMAN8, WIN30, WINBALT, WINL1, WINL2, WINL5, WIN31J, GB2312,  ARABIC8, HPWARA, PC864ARA, HEBREW7, ISOHEB, HEBREW8, PC862HEB,  ISOCYR, PC866CYR, WINCYR, PC866UKR, GREEK8, WINGRK, PC851GRK,  PC8GRK, ISOGRK</li> </ul>

#### 11.8.4 STARTUP OPTIONS

### A. STATUP PAGE

Function	<ul style="list-style-type: none"> <li>Selects whether or not a startup page is printed when the printer is turned on.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To specify whether a startup page is printed.</li> </ul> <p>YES: The startup page is printed when the printer is turned on.  NO : The startup page is not printed.</p>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is NO.</li> </ul> <p>YES "NO"</p>

## B. SYSSTART

Function	<ul style="list-style-type: none"> <li>• Selects whether or not the PostScript format definitions file is applied when the printer is turned on.</li> </ul>
Use	<ul style="list-style-type: none"> <li>• To specify whether to apply the PostScript format definitions file.   YES: The PostScript format definitions file is applied.  NO : The PostScript format definitions file is not applied.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>• The default setting is NO.</li> </ul> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span>YES</span> <span>"NO"</span> </div> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>• <b>This menu item appears only if an optional hard disk is installed.</b></li> </ul>

### 11.8.5 DATE & TIME

Function	<ul style="list-style-type: none"> <li>• Sets the TOD (time-of-day) clock on the hard disk.</li> </ul>
Use	<ul style="list-style-type: none"> <li>• To adjust the TOD clock on the hard disk.</li> <li>• The settings appear in the following order: year, month, day:hour, minutes, seconds.</li> </ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>• <b>This menu item appears only if an optional hard disk installed.</b></li> </ul>
Setting /procedure	<ol style="list-style-type: none"> <li>1. Select [DATE &amp; TIME].</li> <li>2. Using ▲, ▼, ◀, and ▶ keys, enter the time-of-day, and day, month, and year.</li> <li>3. Accept the date and time setting using the Menu Select key.</li> </ol>

### 11.8.6 ENERGY SAVER

Function	<ul style="list-style-type: none"> <li>Specifies the length of time before the machine enters energy saver mode after the last print is received or the last key operated.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To set the amount of time before the machine enters energy saver mode.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is 30 MINUTES.</li> </ul> <div style="display: flex; justify-content: space-around; align-items: center;"> <span>15 MINUTES</span> <span>"30 MINUTES"</span> <span>1 HOUR</span> <span>2 HOURS *</span> </div> <p>* Displayed only on the model for the 110 V models.</p> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li><b>This setting is available only when [SYSTEM DEFAULT] → [ENERGY SAVER MGT] is set to [ON].</b></li> </ul>

### 11.8.7 ENERGY SAVER MGT

Function	<ul style="list-style-type: none"> <li>Sets whether the printer should go into energy saver mode when not printing or processing a print job and when the control panel is not being used.</li> </ul>
Use	<ul style="list-style-type: none"> <li>To specify whether Energy Saver mode is to be used.</li> </ul>
Setting /procedure	<ul style="list-style-type: none"> <li>The default setting is ON.</li> </ul> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span>“ON”</span> <span>OFF</span> </div> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li><b>This menu item is available only on the 110 V model.</b></li> </ul>

11.8.8 SECURITY

A. CONFIG

(1) ENABLE

Function	• Selects whether or not the menus are protected with a password.
Use	• To protect all menus with a password.
Setting /procedure	• The default setting is OFF. <div>“OFF”<span style="float:right">ON</span></div>

(2) SET PASSWORD

Function	• Sets the password for displaying the menus.
Use	• To set the password for protecting the menus.  <b>NOTE</b> • <b>The specified password is applied only if [SECURITY] → [CONFIG] → [ENABLE] is set to [ON].</b>
Setting /procedure	1. Select [SET PASSWORD]. 2. Enter the 8-digit password. 3. Accept the password setting using the Menu Select key.  <b>NOTE</b> • <b>Default password is set to “SYSADMIN”. If changed, limit password to 16 characters.</b>

11.8.9 CAPTURE PRT JOB

Function	• Selects whether or not received print jobs are saved on the hard disk.
Use	• When an error occurs, to help you analyze the cause of the error according to the print job data. <div>OFF : The print jobs are not saved on the hard disk. ON : The received print jobs are saved on the hard disk without being printed. PRINT : The received print jobs are printed and saved on the hard disk.</div> <b>NOTE</b> <b>This menu item appears only if an optional hard disk is installed.</b>
Setting /procedure	• The default setting is OFF. <div>“OFF”<span style="float:right">ON</span><span style="float:right">PRINT</span></div>

11.8.10 FORMAT

A. FORMAT FLASH

Function	• Selects whether or not to initialize the flash RAM.
Use	• To initialize the flash RAM.
Setting /procedure	• The default setting is NO. <div>“NO”<span style="float:right">YES</span></div> If YES is selected, the flash RAM is initialized.



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magicolor 2550/2550DN

B. FORMAT DISK

Function	• Selects whether or not to initialize the hard disk.		
Use	• Initializes the hard disk.  <b>NOTE</b> • <b>This menu item appears only if an optional hard disk is installed.</b>		
Setting /procedure	• The default setting is NO.  "NO" YES  If [YES] is selected, the hard disk is initialized.		

11.8.11 RESTORE/SAVE

A. RESTORE FACTORY

Function	• Selects whether or not all menu items are reset to their factory default settings.		
Use	• To return the current settings to their factory default settings.		
Setting /procedure	• The default setting is NO.  "NO" YES  <b>NOTE</b> • <b>Printer will auto reboot if [YES] is selected.</b>		

B. SAVE CUSTOM

Function	• Selects whether or not all changed menu settings are saved.		
Use	• To save the custom settings.		
Setting /procedure	• The default setting is NO.  "NO" YES  If [YES] is selected, all changes are saved.		

C. RESTORE CUSTOM

Function	• Selects whether or not menu items are reverted to the previously saved settings.		
Use	• To revert the settings to the previously saved settings.		
Setting /procedure	• The default setting is NO.  "NO" YES  <b>NOTE</b> • <b>Printer will auto reboot if [YES] is selected.</b>		

11.9 LANGUAGE

Function	• Sets the language of the control panel display.			
Use	• To change the language of the control panel display. • The default setting varies according to the applicable marketing area.			
Setting /procedure	ENGLISH CESKY	FRANCAIS DEUTSCH	ESPAÑOL ITALIANO	PORTUGES

Adjustment / Setting

11.10 ENVIRONMENT MENU

<Procedure to enter the ENVIRONMENT MENU>

- 1. Press the ▲ key for more than 3 seconds on [IDLE] screen.
- 2. Press the Menu Select key.
- 3. Press the ◀ key to display [ENVIRONMENT MENU].

11.10.1 ALTITUDE SETUP

Function	<ul style="list-style-type: none"><li>• Optimizes the image by varying the output value of the developing bias when an image problem occurs due to the atmospheric pressure at high altitudes.</li></ul>										
Use	<ul style="list-style-type: none"><li>• To adjust the developing when an image problem (uneven density) occurs in an environment of low atmospheric pressure in places such as at high altitudes.</li></ul>										
Setting /procedure	<ul style="list-style-type: none"><li>• The default setting is 0.</li><li>1. Call the [ENVIRONMENT MENU] to the menu screen.</li><li>2. Select [ALTITUDE SETUP] using the ◀ or ▶ key and press the Menu Select key.</li><li>3. In [ALTITUDE SETUP], press the ▲ or ▼ key as necessary to select the appropriate altitude setting value.</li></ul> <table><tr><th>Setting value</th><th>Developing bias value</th></tr><tr><td>0</td><td>No offset</td></tr><tr><td>1</td><td>100 V</td></tr><tr><td>2</td><td>200 V</td></tr><tr><td>3</td><td>300 V</td></tr></table> <ul style="list-style-type: none"><li>4. Press the Menu Select key to accept the new setting.</li></ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"><li>• <b>After the setting has been changed, be sure to run [REQUEST AIDC (QUALITY MENU)].</b></li></ul>	Setting value	Developing bias value	0	No offset	1	100 V	2	200 V	3	300 V
Setting value	Developing bias value										
0	No offset										
1	100 V										
2	200 V										
3	300 V										
Adjustment range	<ul style="list-style-type: none"><li>• 0 to 3</li></ul>										

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magicolor 2530 DL  
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11.10.2 TRANSFER VOLTAGE

Function	<ul style="list-style-type: none"><li>• Adjusts image characteristics according to user requirements for each type of media by varying the second transfer voltage.</li></ul>																				
Use	<ul style="list-style-type: none"><li>• To adjust the second transfer voltage when an image problem (void areas, white spots) occurs due to the characteristics of the type of media being used.<ul style="list-style-type: none"><li>If white spots occur, decrease the 2nd transfer voltage (adjust in the minus direction).</li><li>If void areas occurs, increase the 2nd transfer voltage (adjust in the plus direction).</li></ul></li></ul>																				
Setting /procedure	<ul style="list-style-type: none"><li>• The default setting is 0.</li><li>1. Call the [ENVIRONMENT MENU] to the menu screen.</li><li>2. Select [TRANSFER VOLTAGE] using the ◀ or ▶ key and press the Menu Select key.</li><li>3. In [TRANSFER VOLTAGE], press the ◀ or ▶ key as necessary to select the appropriate voltage value.</li></ul> <table><tr><td>Setting value</td><td>Voltage value</td><td>Setting value</td><td>Voltage value</td></tr><tr><td>-3</td><td>-600 V</td><td>+1</td><td>+200 V</td></tr><tr><td>-2</td><td>-400 V</td><td>+2</td><td>+400 V</td></tr><tr><td>-1</td><td>-200 V</td><td>+3</td><td>+600 V</td></tr><tr><td>0</td><td>0 V</td><td></td><td></td></tr></table> <ul style="list-style-type: none"><li>4. Press the Menu Select key to accept the new voltage setting.</li></ul>	Setting value	Voltage value	Setting value	Voltage value	-3	-600 V	+1	+200 V	-2	-400 V	+2	+400 V	-1	-200 V	+3	+600 V	0	0 V		
Setting value	Voltage value	Setting value	Voltage value																		
-3	-600 V	+1	+200 V																		
-2	-400 V	+2	+400 V																		
-1	-200 V	+3	+600 V																		
0	0 V																				
Adjustment range	<ul style="list-style-type: none"><li>• -3 to +3</li></ul>																				

11.10.3 DUPLEX DENSITY

Function	<ul style="list-style-type: none"><li>Adjusts the T/C ratio control level when a faulty image density occurs due to changes in weather or environment.</li></ul>
Use	<ul style="list-style-type: none"><li>To adjust the T/C ratio changes to compensate for changes in the user's operating environment during 2-sided printing.</li></ul>
Setting /procedure	<ul style="list-style-type: none"><li>The default setting is 0.</li><li>1. Call the [ENVIRONMENT MENU] to the menu screen.</li><li>2. Select [DUPLEX DENSITY] using the ◀ or ▶ key and press the Menu Select key.</li><li>3. In [DUPLEX DENSITY] selected, press the ◀ or ▶ key as necessary to select the appropriate density level value.</li><li>4. Press the Menu Select key to accept the new density level setting.</li></ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"><li><b>This menu item appears only if an optional Duplex Unit is installed.</b></li></ul>
Adjustment range	<ul style="list-style-type: none"><li>-3 to +3</li></ul>

Adjustment / Setting

## 12. Service mode (magicolor 2500W)

### 12.1 Service mode entry procedure

#### NOTE

- **Ensure appropriate security for the service mode entry procedure. It should NEVER be given to any unauthorized person.**

#### 12.1.1 Toner cartridge removal mode

- This mode is used for manually removing and/or replacing a specific color of toner cartridge or all four toner cartridges.

##### A. Procedure

1. Hold down the Cancel key for 10 seconds or longer.
2. With the Cancel key held down, hold down the Rotate Toner key for 10 seconds or longer.
3. When all LED indicators are blinking rapidly, release the Cancel and Rotate Toner keys.
4. Hold down the Rotate Toner key for another 10 seconds or longer.
5. The cyan toner cartridge moves into the proper position, so it can be removed.
6. Remove the cyan toner cartridge, if necessary.
7. Open and close the top cover. Each time you do this, another toner cartridge moves into the proper position, so it can be removed in this order: cyan, black, yellow, magenta.

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## 13. SERVICE PERSON mode (magicolor 2530 DL)

### 13.1 SERVICE PERSON mode entry procedure

**NOTE**

- Ensure appropriate security for the SERVICE PERSON mode entry procedure. It should NEVER be given to any unauthorized person.

**A. Procedure**

1. In the configuration menu, display [ENGINE SERVICE] and press the ▼ key.
2. Using the ► key, display the [TOTAL FACE COUNT] menu.
3. Hold down the Menu Select key and the ▼ key at the same time for 2 seconds or more.
4. When [SERVICE PERSON] displays, press the ▼ key.

**B. Exiting**

- Press the Cancel key.

### 13.2 List of service mode menu functions

MENU		Ref. page
SERVICE SERVICE PERSON	RESTORE FACTORY DEFAULT	P.125
	SERVICE PERSON SRU USAGE	P.128
	RESET CONTROLLER	P.128
	RESET COUNTER TRANSFER BELT	P.128
	RESET COUNTER FUSER UNIT	P.128
	RESET COUNTER TRANSFER ROLLER	P.128

Adjustment / Setting

13.3 Settings/adjustments in Service/Service person mode functions

13.3.1 RESTORE FACTORY DEFAULT

Function	• Reinitializes the settings to their factory defaults.																																						
Use	<ul style="list-style-type: none"><li>• To return the current settings to the factory default settings.</li><li>• Use this as the last resort before replacing the board when taking remedial steps for a malfunction.</li><li>• The following table lists the items to be reinitialized and their default values.</li></ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"><li>• <b>Some items can be reset after being reinitialized while others cannot be.</b></li></ul> <p><b>A. Items that cannot be reset after reinitialization</b></p> <table><tr><th colspan="2">Item</th><th>Factory default value</th><th>Ref. page</th></tr><tr><td rowspan="3">Counter: Main unit</td><td>Color</td><td>0</td><td>-</td></tr><tr><td>B/W</td><td>0</td><td>-</td></tr><tr><td>Total</td><td>0</td><td>-</td></tr><tr><td rowspan="3">Counter: Duplex *1</td><td>Color</td><td>0</td><td>-</td></tr><tr><td>B/W</td><td>0</td><td>-</td></tr><tr><td>Total</td><td>0</td><td>-</td></tr><tr><td colspan="2">Counter: Transfer roller</td><td>0</td><td>-</td></tr><tr><td colspan="2">Counter: Transfer belt unit</td><td>0</td><td>-</td></tr><tr><td colspan="2">Counter: Fusing unit</td><td>0</td><td>-</td></tr></table> <p>*1 When the duplex option is installed</p>			Item		Factory default value	Ref. page	Counter: Main unit	Color	0	-	B/W	0	-	Total	0	-	Counter: Duplex *1	Color	0	-	B/W	0	-	Total	0	-	Counter: Transfer roller		0	-	Counter: Transfer belt unit		0	-	Counter: Fusing unit		0	-
Item		Factory default value	Ref. page																																				
Counter: Main unit	Color	0	-																																				
	B/W	0	-																																				
	Total	0	-																																				
Counter: Duplex *1	Color	0	-																																				
	B/W	0	-																																				
	Total	0	-																																				
Counter: Transfer roller		0	-																																				
Counter: Transfer belt unit		0	-																																				
Counter: Fusing unit		0	-																																				

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

Adjustment / Setting

Use	<b>B. Items that can be reset after reinitialization</b>		
	Item	Factory default value	Ref. page
	SPECIAL PAGES/ PRINT CONFIG PAGE	NO	<a href="#">P.86</a>
	SPECIAL PAGES/ PRINT TEST PAGES	NO	<a href="#">P.86</a>
	SPECIAL PAGES PRINT MENU MAP	NO	<a href="#">P.86</a>
	LANGUAGE	ENGLISH	<a href="#">P.86</a>
	ENERGY SAVER MGMT (only on the model for the Americas)	ON	<a href="#">P.88</a>
	ENERGY SAVER	30 MINUTES	<a href="#">P.88</a>
	ENGINE TONER EMPTY	STOP	<a href="#">P.87</a>
	AUTO CONTINUE	ON	<a href="#">P.88</a>
	TRAY CHAINING	ON	<a href="#">P.88</a>
	DUPLEX DENSITY	0	<a href="#">P.90</a>
	ALTITUDE SETUP	0	<a href="#">P.91</a>
	TRANSFER VOLTAGE	0	<a href="#">P.91</a>
	IP ADDRESS	192.168.1.2	<a href="#">P.92</a>
	SUBNET MASK	255.255.255.0	<a href="#">P.92</a>
	GATEWAY	192.168.1.1	<a href="#">P.92</a>
	DHCP:XX / BOOTP:XX	DHCP:ON / BOOTP:OFF	<a href="#">P.92</a>
	HTTP	ON	<a href="#">P.93</a>
	SNMP	ON	<a href="#">P.93</a>
	FORCED MODES	AUTO/AUTO/ON	<a href="#">P.93</a>
	DIRECT PRINT	IMAGE QUALITY	DRAFT <a href="#">P.94</a>
		PAPER SIZE	A4 or Letter <a href="#">P.95</a>
		MEDIA TYPE	PLAIN PAPER <a href="#">P.95</a>
		LAYOUT	1-UP <a href="#">P.95</a>
		BRIGHTNESS	OFF <a href="#">P.95</a>
		SHARPNESS	OFF <a href="#">P.96</a>
		AUTO ROTATE	OFF <a href="#">P.96</a>

Use

Item	Factory default value	Ref. page	
PageScope Web Connection	Admin. Password	administrator	-
	Refresh Rate	30 seconds	-
	Contact Name	KONICA MINOLTA Customer Support	-
	Contact Information	http://printer. konicaminolta.com/	-
	Product Help URL	http://pagescope.com/	-
	Corporate URL	http://printer. konicaminolta.com/	-
	Supplies and Acces- sories	http://www.q-shop.com/	-
	Online Help URL	http://printer. konicaminolta.com/	-
	Auto IP	DHCP	-
	WINS/NetBIOS Resolution	Checked	-
	NetBIOS Name	MC2530DLXXXXXX *2	-
	Domain/Workgroup	WORKGROUP	-
	Use DHCP for WINS	Checked	-
	Primary WINS	grayed out/disabled	-
	Secondary WINS	grayed out/disabled	-
	Bonjour Service Discovery	Checked	-
	Bonjour Config Printer Name	KONICA MINOLTA magicolor 2530 DL	-
	Bonjour Config Host Name	MC2530DLXXXXXX *2	-
	IPP Config Printer Name	magicolor 2530 DL	-
	IPP Config Printer Location	Blank	-

\*2 XXXXXX are the low-order 6 digits of the printer MAC address.

Setting  
/procedure

1. Take note of the current setting.

2. Enter the SERVICE/SERVICE PERSON mode.

3. Select [RESTORE FACTORY DEFAULT] and press the Menu Select key.

4. When the initialization procedure is completed, restart the machine.

5. Make the settings that were valid before initialization once again.

NOTE

• The reinitialization procedure resets the settings and counter values backed up in the parameter chip on the printer control board. Use utmost care whenever executing reinitialization.

• After the reinitialization has been executed, be sure to replace all toner cartridges, 2nd transfer roller, transfer belt unit, fusing unit, and drum cartridge with new ones.



**13.3.2 SERVICE PERSON SRU USAGE**

Function	• Displays the remaining life of the transfer belt, transfer roller, and fusing unit.
Use	• To check the remaining life of the maintenance service parts.
Setting /procedure	1. Enter the SERVICE/SERVICE PERSON mode. 2. Select [SERVICE PERSON SRU USAGE] and press the Menu Select key. 3. Select the desired unit using the right and left arrow keys.

**13.3.3 RESET CONTROLLER**

Function	• Resets the controller.
Use	• To return the controller to its initial condition.
Setting /procedure	1. Enter the SERVICE/SERVICE PERSON mode. 2. Select [RESET CONTROLLER] and press the Menu Select key. 3. This automatically restarts the machine and the initial screen reappears.

**13.3.4 RESET COUNTER TRANSFER BELT**

Function	• Resets the counter value of the transfer belt unit.
Use	• To reset the transfer belt unit counter after the transfer belt unit is replaced.
Setting /procedure	1. Enter the SERVICE/SERVICE PERSON mode. 2. Select [RESET COUNTER TRANSFER BELT UNIT] and press the Menu Select key. 3. This resets the counter and the ENGINE/SERVICE menu reappears.

**13.3.5 RESET COUNTER FUSER UNIT**

Function	• Resets the counter value of the fusing unit.
Use	• To reset the fusing unit counter after the fusing unit is replaced.
Setting /procedure	1. Enter the SERVICE/SERVICE PERSON mode. 2. Select [RESET COUNTER FUSER UNIT] and press the Menu Select key. 3. This resets the counter and the ENGINE/SERVICE menu reappears.

**13.3.6 RESET COUNTER TRANSFER ROLLER**

Function	• Resets the counter value of the transfer roller.
Use	• To reset the transfer roller counter after the transfer roller is replaced.
Setting /procedure	1. Enter the SERVICE/SERVICE PERSON mode. 2. Select [RESET COUNTER TRANSFER ROLLER] and press the Menu Select key. 3. This resets the counter and the ENGINE/SERVICE menu reappears.

## 14. SERVICE MENU (magicolor 2550/magicolor 2550DN)

### 14.1 SERVICE MENU entry procedure

**NOTE**

- **Ensure appropriate security for the SERVICE MENU entry procedure. It should NEVER be given to any unauthorized person.**

**A. Procedure**

1. Select [SERVICE MENU] and press the Menu Select key.
2. Press the Menu Select key twice. Then, using ▲, ▼, ◀, and ▶ keys, enter the password. (The default password is "KM2550".)
3. Press the Menu Select key and ▶ key.

**B. Exiting**

- Press ▲ key to return to the initial screen.

### 14.2 List of SERVICE MENU Functions

SERVICE MENU			Ref. page
SRU	SERVICE PASSWORD	TRANSFER BELT	P.130
		FUSER UNIT	P.130
		TRANSFER ROLLER	P.130
		REMOVE ALL	P.130
		% REMAINING	P.131

## 14.3 Settings/adjustments in SERVICE MENU functions

### 14.3.1 SRU

#### A. TRANSFER BELT

Function	• Resets the counter value of the transfer belt unit.
Use	• To reset the transfer belt unit counter when the transfer belt unit is replaced.
Setting /procedure	<ol style="list-style-type: none"> <li>1. Enter the SERVICE MENU. <a href="#">P.129</a></li> <li>2. Select [SRU] and press the Menu Select key.</li> <li>3. Select [TRANSFER BELT] and press the Menu Select key.</li> <li>4. Select [YES] and press the Menu Select key.</li> <li>5. This resets the counter and the [SERVICE MENU] reappears.</li> </ol>

#### B. FUSER UNIT

Function	• Resets the counter value of the fusing unit.
Use	• To reset the fusing unit counter when the fusing unit is replaced.
Setting /procedure	<ol style="list-style-type: none"> <li>1. Enter the SERVICE MENU. <a href="#">P.129</a></li> <li>2. Select [SRU] and press the Menu Select key.</li> <li>3. Select [FUSER UNIT] and press the Menu Select key.</li> <li>4. Select [YES] and press the Menu Select key.</li> <li>5. This resets the counter and the [SERVICE MENU] reappears.</li> </ol>

#### C. TRANSFER ROLLER

Function	• Resets the counter value of the transfer roller.
Use	• To reset the transfer roller counter when the transfer roller is replaced.
Setting /procedure	<ol style="list-style-type: none"> <li>1. Enter the SERVICE MENU. <a href="#">P.129</a></li> <li>2. Select [SRU] and press the Menu Select key.</li> <li>3. Select [TRANSFER ROLLER] and press the Menu Select key.</li> <li>4. Select [YES] and press the Menu Select key.</li> <li>5. This resets the counter and the [SERVICE MENU] reappears.</li> </ol>

#### D. REMOVE ALL

Function	• Moves each color toner cartridge to the appropriate replacement position, one by one, to allow all of the toner cartridges to be removed.
Use	• To allow all of the toner cartridges to be removed.
Setting /procedure	<ol style="list-style-type: none"> <li>1. Enter the SERVICE MENU. <a href="#">P.129</a></li> <li>2. Select [SRU] and press the Menu Select key.</li> <li>3. Select [REMOVE ALL] and press the Menu Select key.</li> <li>4. The rack rotates to bring the first color toner cartridge to the replacement position. when the rack stops moving, the message [OPEN DOOR/REMOVE TONER C] appears on the display.</li> <li>5. Open the top cover and remove the toner cartridge.</li> <li>6. Close the top cover. Message [CHECKING TONER, PLEASE WAIT...] appears. Then, the message [OPEN DOOR/REMOVE TONER K] appears on the display.</li> <li>7. Repeating the same steps, remove all toner cartridges.</li> </ol> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>• The toner cartridges are to be removed in the order of C → K → Y → M.</li> </ul> <ol style="list-style-type: none"> <li>8. Close the top cover. The initial screen will then reappear.</li> </ol>

E. % REMAINING

Function	• Displays the remaining life of the transfer belt, transfer roller, and fusing unit.
Use	• To check the remaining life of the maintenance service parts.
Setting /procedure	1. Enter the SERVICE MENU. <a href="#">P.129</a> 2. Select [SRU] and press the Menu Select key. 3. Select [% REMAINING] and press the Menu Select key. 4. Select [TRANSFER BELT], [FUSER UNIT] or [TRANSFER ROLLER] to check the remaining life of each part that is expressed as a percentage.

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

Adjustment / Setting

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

Adjustment / Setting

Blank Page

# Troubleshooting

## 15. Jam display

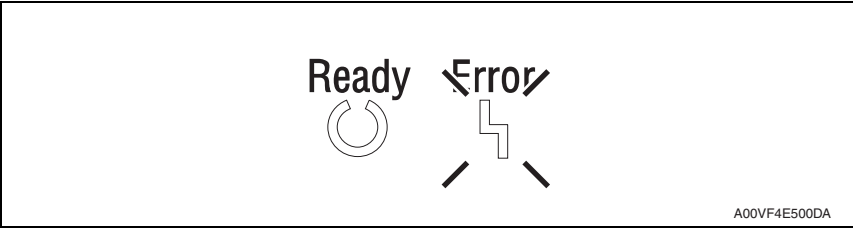
### 15.1 Misfeed display

- When a media misfeed occurs, the printer shows the corresponding media misfeed status by means of the error indicator on the control panel or LCD display.

**A. Indication given by the error indicator (magicolor 2500W)**

- The Error indicator blinks once a second.

See P.72



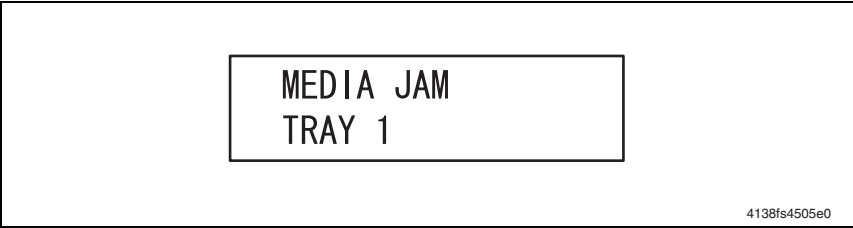
**NOTE**

- Details of the misfeed location are given in the Status Display on the PC connected to the printer.

**B. Indication given by the LCD display (magicolor 2530 DL)**

- When a media misfeed occurs, a message is displayed on the control panel.

See P.81



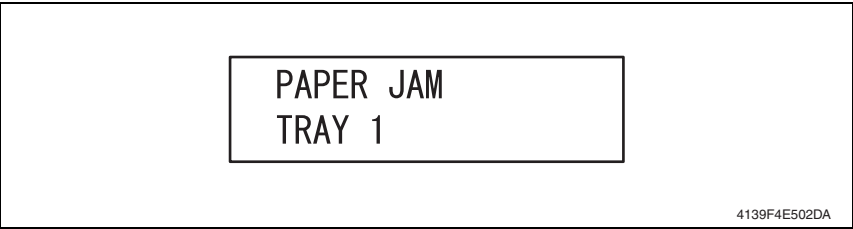
Display (magicolor 2530 DL only)	Misfeed location	Misfeed processing location	Action
MEDIA JAM TRAY 1	Media take-up section	Top cover, front cover	<a href="#">P.136</a>
MEDIA JAM TRANSFER ROLLER	Transfer section	Top cover	<a href="#">P.137</a>
MEDIA JAM FUSER	Fusing section	Top cover	<a href="#">P.138</a>
	Exit section	Top cover	<a href="#">P.139</a>
MEDIA JAM TRAY 2	Lower Feeder Unit media take-up section	Tray 2	<a href="#">Lower Feeder Unit Service Manual P.13</a>
MEDIA JAM DUPLEX LOWER	Duplex Option media feed section	Duplex Option door	<a href="#">Duplex Option Service Manual P.17</a>
MEDIA JAM DUPLEX UPPER	Duplex Option media conveyance section		

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

C. Indication given by the LCD display (magicolor 2550/magicolor 2550DN)

- When a media misfeed occurs a message is displayed on the control panel.

See P.99



Display (magicolor 2550/2550DN only)	Misfeed location	Misfeed processing location	Action
PAPER JAM TRAY 1	Media take-up section	Top cover, front cover	<a href="#">P.136</a>
PAPER JAM TRANSFER	Transfer section	Top cover	<a href="#">P.137</a>
PAPER JAM FUSER	Fusing section	Top cover	<a href="#">P.138</a>
PAPER JAM EXIT	Exit section	Top cover	<a href="#">P.139</a>
PAPER JAM TRAY 2	Lower Feeder Unit media take-up section	Tray 2	<a href="#">Lower Feeder Unit Service Manual P.13</a>
PAPER JAM DUPLEX	Duplex Option media feed/conveyance section	Duplex Option door	<a href="#">Duplex Option Service Manual P.17</a>

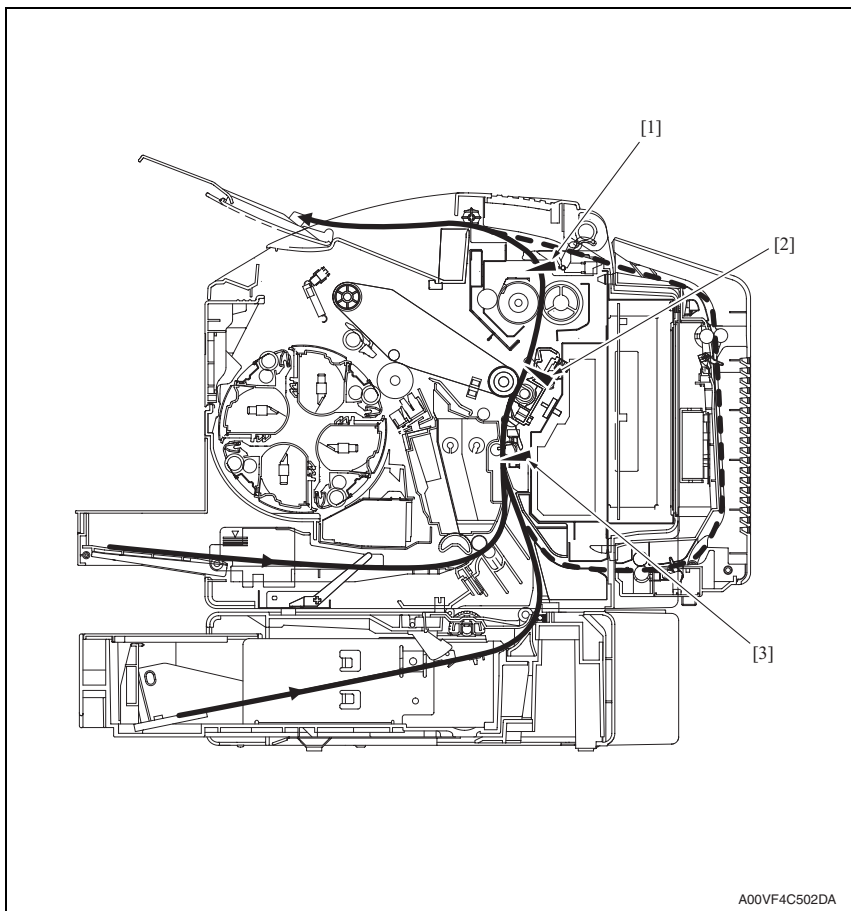
Troubleshooting

## 15.2 Misfeed display resetting procedure

- Open the relevant cover, clear the sheet of misfed media, and close the cover.

## 15.3 Sensor layout

### 15.3.1 For magicolor 2530 DL/magicolor 2550/magicolor 2550DN (mounted with the Lower Feeder Unit and Duplex Option)



- |                              |     |                         |     |
|------------------------------|-----|-------------------------|-----|
| [1] Exit sensor              | PS7 | [3] Registration sensor | PS1 |
| [2] Fusing paper loop sensor | PS8 |                         |     |



15.4 Solution

15.4.1 Initial check items

- When a media misfeed occurs, check the following:

Check Item	Action
Does the media meet product specifications?	Change the media.
Is the media curled, wavy, or damp.	Change the media. Instruct the user in correct media storage.
Is a foreign object present along the media path, or is the media path deformed or worn?	Clean or change the media path.
Are the media separator fingers dirty, deformed, or worn?	Clean or change the defective media separator finger.
Are the rolls/rollers dirty, deformed, or worn?	Clean or change the defective roll/roller.
Are the edge guide and trailing edge stop at the correct position to accommodate media?	Set as necessary.
Are the actuators operational?	Correct or change the defective actuator.

15.4.2 Misfeed at media feed section

A. Detection timing

Type	Description
Detection of misfeed at media feed section	The leading edge of the media does not block the registration sensor (PS1) even after the lapse of a predetermined period of time after the Tray1 media pick-up solenoid has been energized.

B. Action

Relevant electrical parts	
Registration sensor (PS1) Tray1 paper pick-up solenoid (SD1)	Printer control board (PRCB)

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Initial check items.	-	-
2	Check the PRCB connector for proper connection and correct as necessary.	-	-
3	PS1 sensor check.	2500W: PRCB PJ12PRCB-3 (ON) 2530 DL: PRCB PJ12PRCB-3 (ON) 2550/2550DN: PRCB PJ12PRCB-3 (ON)	2500W: C-10 2530 DL: C-9 2550/2550DN: C-9
4	SD1 operation check.	2500W: HV CN2HV-2 (REM) 2530 DL: HV CN2HV-2 (REM) 2550/2550DN: HV CN2HV-2 (REM)	2500W: K-5 2530 DL: K-3 2550/2550DN: K-3
5	Change PRCB.	-	-

15.4.3 Misfeed at 2nd transfer section

A. Detection timing

Type	Description
Detection of misfeed at 2nd transfer section	The media does not unblock the registration sensor (PS1) even after the lapse of a predetermined period of time after the registration roller solenoid (SD2) has been deenergized.
	The fusing paper loop sensor (PS8) is not blocked by the media that has moved past the position, at which the sensor is blocked.
Detection of media left in 2nd transfer section	The registration sensor (PS1) is blocked when the power switch is turned ON, a cover is opened and closed, or a misfeed or malfunction is reset.
	The fusing paper loop sensor (PS8) is blocked when the power switch is turned ON, a cover is opened and closed, or a misfeed or malfunction is reset.

B. Action

Relevant electrical parts	
Registration sensor (PS1) Fusing paper loop sensor (PS8) Registration roller solenoid (SD2)	Printer control board (PRCB)

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Initial check items.	-	-
2	Check the PRCB connector for proper connection and correct as necessary.	-	-
3	PS1 sensor check.	2500W: PRCB PJ12PRCB-3 (ON) 2530 DL: PRCB PJ12PRCB-3 (ON) 2550/2550DN: PRCB PJ12PRCB-3 (ON)	2500W: C-10 2530 DL: C-9 2550/2550DN: C-9
4	PS8 sensor check.	2500W: PRCB PJ14PRCB-6 (ON) 2530 DL: PRCB PJ14PRCB-6 (ON) 2550/2550DN: PRCB PJ14PRCB-6 (ON)	2500W: J-3 2530 DL: J-2 2550/2550DN: J-2
5	SD2 operation check.	2500W: PRCB PJ11PRCB-4 (REM) 2530 DL: PRCB PJ11PRCB-4 (REM) 2550/2550DN: PRCB PJ11PRCB-4 (REM)	2500W: C-11 2530 DL: C-10 2550/2550DN: C-10
6	Change PRCB.	-	-

magcolor 2500W  
magcolor 2530 DL  
magcolor 2550/2550DN

Troubleshooting

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

15.4.4 Misfeed at fusing section

A. Detection timing

Type	Description
Detection of misfeed at fusing section	The media does not block the exit sensor (PS7) even after the lapse of a predetermined period of time after the registration roller solenoid (SD2) has been energized.
	The exit sensor (PS7) is unblocked within a predetermined period of time after it has been blocked by the media.
	The main motor, polygon motor, and rack motor are energized even after the lapse of a predetermined period of time after media information has been created.
Detection of media left in fusing section	The exit sensor (PS7) is blocked when the power switch is turned ON, a cover is opened and closed, or a misfeed or malfunction is reset.

B. Action

Relevant electrical parts	
Exit sensor (PS7)	Printer control board (PRCB)
Registration roller solenoid (SD2)	Image processing board (IPB)

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Initial check items.	-	-
2	Check the IPB connector for proper connection and correct as necessary.	-	-
3	Check the PRCB connector for proper connection and correct as necessary.	-	-
4	PS7 sensor check.	2500W: PRCB PJ6PRCB-3 (ON) 2530 DL: PRCB PJ6PRCB-3 (ON) 2550/2550DN: PRCB PJ6PRCB-3 (ON)	2500W: C-9 2530 DL: C-8 2550/2550DN: C-8
5	SD2 operation check.	2500W: PRCB PJ11PRCB-4 (REM) 2530 DL: PRCB PJ11PRCB-4 (REM) 2550/2550DN: PRCB PJ11PRCB-4 (REM)	2500W: C-11 2530 DL: C-10 2550/2550DN: C-10
6	Change IPB.	-	-
7	Change PRCB.	-	-

Troubleshooting

15.4.5 Misfeed at exit section

A. Detection timing

Type	Description
Detection of misfeed at exit section	The exit sensor (PS7) is not unblocked even after the lapse of a predetermined period of time after it has been blocked by the media.
Detection of media left in exit section	The exit sensor (PS7) is blocked when the power switch is turned ON, a cover is opened and closed, or a misfeed or malfunction is reset.

B. Action

Relevant electrical parts	
Exit sensor (PS7)	Printer control board (PRCB)

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Initial check items.	-	-
2	Check the PRCB connector for proper connection and correct as necessary.	-	-
3	PS7 sensor check.	2500W: PRCB PJ6PRCB-3 (ON) 2530 DL: PRCB PJ6PRCB-3 (ON) 2550/2550DN: PRCB PJ6PRCB-3 (ON)	2500W: C-9 2530 DL: C-8 2550/2550DN: C-8
4	Change PRCB.	-	-

15.4.6 Undefined misfeed

A. Detection timing

Type	Description
Detection of undefined misfeed	Conflicting settings are made in the printer driver.

B. Action

Relevant electrical parts	
Image processing board (IPB)	Printer control board (PRCB)

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check printer driver settings.	-	-
2	Check the IPB connector for proper connection and correct as necessary.	-	-
3	Check the PRCB connector for proper connection and correct as necessary.	-	-
4	Change IPB.	-	-
5	Change PRCB.	-	-

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

Troubleshooting

## 16. Error codes

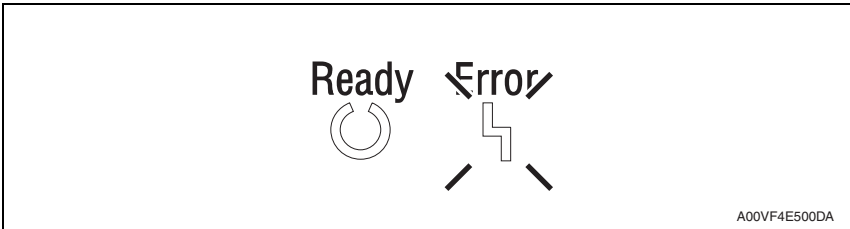
### 16.1 Trouble code

- When a malfunction occurs, the printer shows the corresponding trouble status by means of the Error indicator on the control panel or LCD display.

#### 16.1.1 Indication of the error indicator (magicolor 2500W)

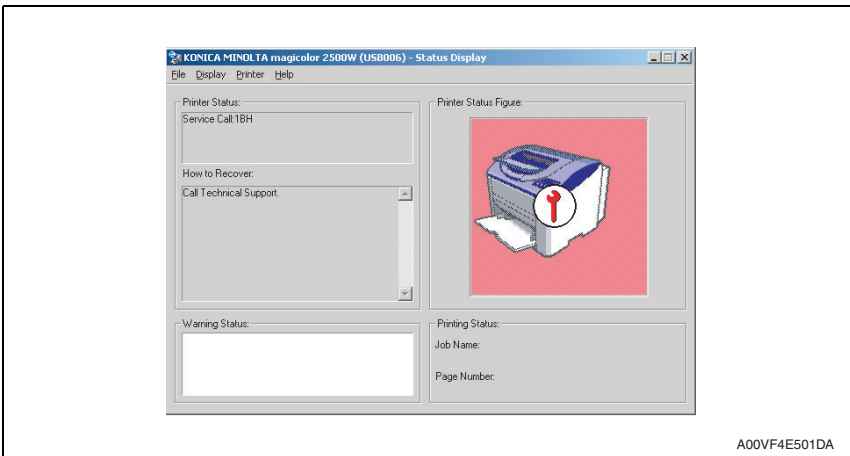
- The CPU circuit of the printer performs a self-diagnostics procedure. If a faulty condition is encountered, the Error indicator blinks twice a second.

See P.72



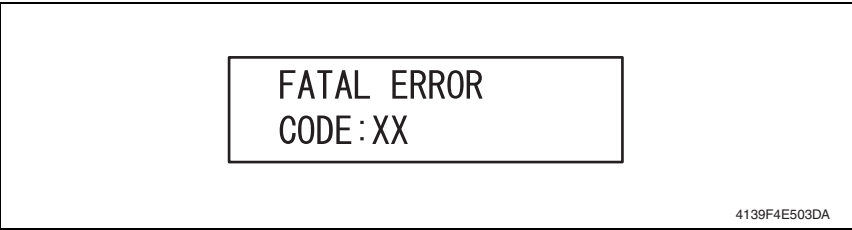
#### A. Check the trouble code

- If trouble status is displayed by the error indicator, the corresponding trouble code can be checked in the Status Display on the PC connected to the printer.



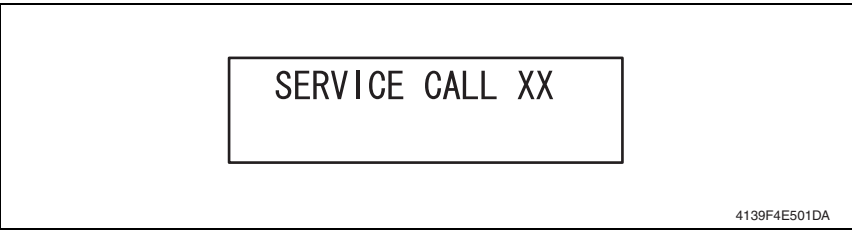
16.1.2 Indication of the LCD display (magicolor 2530 DL)

- The printer's CPU performs a self-diagnostics function that, on detecting a malfunction, gives the corresponding trouble code and maintenance call mark on the control panel.



16.1.3 Indication of the LCD display (magicolor 2550/magicolor 2550DN)

- The printer's CPU performs a self-diagnostics function that, on detecting a malfunction, gives the corresponding trouble code and maintenance call mark on the control panel.



16.1.4 Trouble code list

Code	Item	Detection Timing
04	Printer control board malfunction	• Communications with the M/C expansion IO G/A (IC on the printer control board) are not properly carried out.
05	Flash ROM malfunction	• Firmware upgrading has failed.
08	Main motor malfunction	<ul style="list-style-type: none"><li>• The motor lock signal remains HIGH for a predetermined consecutive period of time while the main motor remains energized.</li><li>• The motor lock signal remains LOW for a predetermined consecutive period of time while the main motor remains deenergized.</li></ul>
0B	Ventilation fan motor malfunction	• The fan motor lock signal remains HIGH for a predetermined consecutive period of time while the ventilation fan motor remains energized.
0C	Power supply cooling fan motor malfunction	• The fan motor lock signal remains HIGH for a predetermined consecutive period of time while the power supply cooling fan motor remains energized.
0F	Cooling fan motor malfunction	<a href="#">Duplex Option Service Manual P.21</a>

Code	Item	Detection Timing
10	Polygon motor malfunction	<ul style="list-style-type: none"> <li>• A LOW motor lock signal is not detected even after the lapse of a predetermined period of time after the polygon motor has been started.</li> </ul>
		<ul style="list-style-type: none"> <li>• The motor lock signal remains HIGH for a predetermined consecutive period of time while the polygon motor remains energized.</li> </ul>
12	Laser malfunction	<ul style="list-style-type: none"> <li>• The SOS signal is not detected within a predetermined period of time after the output of a laser has been started.</li> </ul>
		<ul style="list-style-type: none"> <li>• The SOS signal is never detected in the image area.</li> </ul>
14	2nd image transfer pressure /retraction failure	<ul style="list-style-type: none"> <li>• The state of the retraction position sensor/2nd image transfer is not changed from the unblocked to blocked state even after the lapse of a predetermined period of time during predrive.</li> </ul>
		<ul style="list-style-type: none"> <li>• The retraction position sensor/2nd image transfer is in the unblocked state even after the lapse of a predetermined period of time during predrive.</li> </ul>
		<ul style="list-style-type: none"> <li>• The retraction position sensor/2nd image transfer is not blocked (roller in the retracted position) within a predetermined period of time after the retraction sequence of the 2nd transfer roller has been started.</li> </ul>
		<ul style="list-style-type: none"> <li>• The retraction position sensor/2nd image transfer is not unblocked (roller in the pressed position) within a predetermined period of time after the pressure sequence of the 2nd transfer roller has been started.</li> </ul>
15	Cleaning blade pressure /retraction failure	<ul style="list-style-type: none"> <li>• The state of the retraction position sensor/cleaning blade is not changed from the blocked to unblocked state even after the lapse of a predetermined period of time during predrive.</li> </ul>
		<ul style="list-style-type: none"> <li>• The retraction position sensor/cleaning blade is in the blocked state even after the lapse of a predetermined period of time during predrive.</li> </ul>
		<ul style="list-style-type: none"> <li>• The retraction position sensor/cleaning blade is not unblocked (blade in the retracted position) within a predetermined period of time after the retraction sequence of the cleaning blade has been started.</li> </ul>
		<ul style="list-style-type: none"> <li>• The retraction position sensor/cleaning blade is not blocked (blade in the pressed position) within a predetermined period of time after the pressure sequence of the cleaning blade has been started.</li> </ul>
16	Transfer belt rotation failure	<ul style="list-style-type: none"> <li>• The belt positioning sensor does not detect the transfer belt position detection hole a second time even after the lapse of a predetermined period of time after it has detected one while the transfer belt is rotated.</li> </ul>

Code	Item	Detection Timing
10	Polygon motor malfunction	<ul style="list-style-type: none"> <li>A LOW motor lock signal is not detected even after the lapse of a predetermined period of time after the polygon motor has been started.</li> </ul>
		<ul style="list-style-type: none"> <li>The motor lock signal remains HIGH for a predetermined consecutive period of time while the polygon motor remains energized.</li> </ul>
12	Laser malfunction	<ul style="list-style-type: none"> <li>The SOS signal is not detected within a predetermined period of time after the output of a laser has been started.</li> </ul>
		<ul style="list-style-type: none"> <li>The SOS signal is never detected in the image area.</li> </ul>
14	2nd image transfer pressure /retraction failure	<ul style="list-style-type: none"> <li>The state of the retraction position sensor/2nd image transfer is not changed from the unblocked to blocked state even after the lapse of a predetermined period of time during predrive.</li> </ul>
		<ul style="list-style-type: none"> <li>The retraction position sensor/2nd image transfer is in the unblocked state even after the lapse of a predetermined period of time during predrive.</li> </ul>
		<ul style="list-style-type: none"> <li>The retraction position sensor/2nd image transfer is not blocked (roller in the retracted position) within a predetermined period of time after the retraction sequence of the 2nd transfer roller has been started.</li> </ul>
		<ul style="list-style-type: none"> <li>The retraction position sensor/2nd image transfer is not unblocked (roller in the pressed position) within a predetermined period of time after the pressure sequence of the 2nd transfer roller has been started.</li> </ul>
15	Cleaning blade pressure /retraction failure	<ul style="list-style-type: none"> <li>The state of the retraction position sensor/cleaning blade is not changed from the blocked to unblocked state even after the lapse of a predetermined period of time during predrive.</li> </ul>
		<ul style="list-style-type: none"> <li>The retraction position sensor/cleaning blade is in the blocked state even after the lapse of a predetermined period of time during predrive.</li> </ul>
		<ul style="list-style-type: none"> <li>The retraction position sensor/cleaning blade is not unblocked (blade in the retracted position) within a predetermined period of time after the retraction sequence of the cleaning blade has been started.</li> </ul>
		<ul style="list-style-type: none"> <li>The retraction position sensor/cleaning blade is not blocked (blade in the pressed position) within a predetermined period of time after the pressure sequence of the cleaning blade has been started.</li> </ul>
16	Transfer belt rotation failure	<ul style="list-style-type: none"> <li>The belt positioning sensor does not detect the transfer belt position detection hole a second time even after the lapse of a predetermined period of time after it has detected one while the transfer belt is rotated.</li> </ul>



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Code	Item	Detection Timing
17	Rack rotation failure	• The rack positioning sensor is in the blocked state when the rack motor remains deenergized.
		• The rack positioning sensor is not blocked a second time even after the lapse of a predetermined period of time after it has been blocked once while the rack motor remains energized.
		• The rack positioning sensor is unable to detect the deceleration control position after the lapse of a given period of time after the rack motor has started while the rack motor is turning.
		• The count value of the edge of ON signal of the rack positioning sensor during each developing positions are not a predetermined value while the rack motor is turning.
18	Heating roller warm-up failure	• The thermistor does not detect a predetermined temperature value even after the lapse of a predetermined period of time after the current warm-up cycle has been started and the current warm-up cycle is thus not completed.
19	Abnormally low heating roller temperature	• The temperature detected by the thermistor remains lower than a predetermined value for a predetermined period of time.
1A	Abnormally high heating roller temperature	• The temperature detected by the thermistor is a predetermined value or higher for a predetermined period of time.
1B	Faulty thermistor	• The condition of a temperature rise of less than 1°C extends continuously for a predetermined period of time that begins when the warm-up cycle is started.
21	Faulty OHP sensor	• It is determined that the OHP sensor is faulty through a check made at the end of the predrive.
24	Faulty fusing thermistor resistor	• The heater lamp remains ON for a predetermined consecutive period of time.
29	Trouble related to security	• Contact the responsible people of KONICA MINOLTA when not returning in power switch OFF/ON.
2A		
2B		
2C		

16.2 How to reset

- To reset the printer after a malfunction has occurred, turn the power switch OFF and then ON again.

Troubleshooting

16.3 Solution

16.3.1 04: Printer control board malfunction

Relevant electrical parts			
Printer control board (PRCB)			
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the PRCB connector for proper connection and correct as necessary.	-	-
2	Change PRCB.	-	-

16.3.2 05: Flash ROM malfunction

Relevant electrical parts			
Printer control board (PRCB)			
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the PRCB connector for proper connection and correct as necessary.	-	-
2	Change PRCB.	-	-

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16.3.3 08: Main motor malfunction

Relevant electrical parts			
Main motor (M1)		Printer control board (PRCB) DC power supply (DCPU)	
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the M1 connector for proper connection and correct as necessary.	-	-
2	Check M1 for proper drive coupling and correct as necessary.	-	-
3	Check the PRCB connector for proper connection and correct as necessary.	-	-
4	M1 operation check.	2500W: PRCB PJ8PRCB-5 (REM) PRCB PJ8PRCB-8 (LOCK) 2530 DL: PRCB PJ8PRCB-5(REM) PRCB PJ8PRCB-5(LOCK) 2550/2550DN: PRCB PJ8PRCB-5(REM) PRCB PJ8PRCB-5(LOCK)	2500W: C-7 2530 DL: C-6 2550/2550DN: C-6
5	Change PRCB.	-	-
6	Change DCPU.	-	-

16.3.4 0B: Ventilation fan motor malfunction

Relevant electrical parts			
Ventilation Fan Motor (FM2)		Printer control board (PRCB) DC power supply (DCPU)	
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the FM2 connector for proper connection and correct as necessary.	-	-
2	Check the fan for possible overload and correct as necessary.	-	-
3	Check the PRCB connector for proper connection and correct as necessary.	-	-
4	FM2 operation check.	2500W: PRCB PJ10PRCB-1 (REM) PRCB PJ10PRCB-3 (LOCK) 2530 DL: PRCB PJ10PRCB-1(REM) PRCB PJ8PRCB-3(LOCK) 2550/2550DN: PRCB PJ10PRCB-1(REM) PRCB PJ8PRCB-3(LOCK)	2500W: C-6 2530 DL: C-5 2550/2550DN: C-5
5	Change PRCB.	-	-
6	Change DCPU.	-	-

Troubleshooting

16.3.5 0C: Power supply cooling fan motor malfunction

Relevant electrical parts	
Power supply cooling fan motor (FM1)	Printer control board (PRCB) DC power supply (DCPU)

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the FM1 connector for proper connection and correct as necessary.	-	-
2	Check the fan for possible overload and correct as necessary.	-	-
3	Check the PRCB connector for proper connection and correct as necessary.	-	-
4	FM1 operation check.	2500W: PRCB PJ4PRCB-1 (REM) PRCB PJ4PRCBB-3 (LOCK) 2530 DL: PRCB PJ4PRCB-1 (REM) PRCB PJ4PRCB-3 (LOCK) 2550/2550DN: PRCB PJ4PRCB-1 (REM) PRCB PJ4PRCB-3 (LOCK)	2500W: C-5 2530 DL: C-4 2550/2550DN: C-4
5	Change PRCB.	-	-
6	Change DCPU.	-	-

16.3.6 10: Polygon motor malfunction

Relevant electrical parts	
PH unit	Printer control board (PRCB)

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the cable and connector for proper connection and correct as necessary.	-	-
2	Change PH unit.	-	-
3	Change PRCB.	-	-

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16.3.7 12: Laser malfunction

Relevant electrical parts			
PH Unit		Printer control board (PRCB)	
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the cable and connector for proper connection and correct as necessary.	-	-
2	Change PH unit.	-	-
3	Change PRCB.	-	-

16.3.8 14: 2nd image transfer pressure/retraction failure

Relevant electrical parts	
Retraction position sensor /2nd image transfer (PS5) Pressure/retraction solenoid /2nd image transfer (SD4) Main motor (M1)	Printer control board (PRCB)

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the M1 connector for proper connection and correct as necessary.	-	-
2	Check M1 for proper drive coupling and correct as necessary.	-	-
3	Check the SD4 connector for proper connection and correct as necessary.	-	-
4	Check the PRCB connector for proper connection and correct as necessary.	-	-
5	PS5 sensor check.	2500W: PRCB PJ14PRCB-3 (ON) 2530 DL: PRCB PJ14PRCB-3 (ON) 2550/2550DN: PRCB PJ14PRCB-3 (ON)	2500W: J-4 2530 DL: J-3 2550/2550DN: J-3
6	SD4 operation check.	2500W: PRCB PJ11PRCB-2 (REM) 2530 DL: PRCB PJ11PRCB-2 (REM) 2550/2550DN: PRCB PJ11PRCB-2 (REM)	2500W: C-11 2530 DL: C-10 2550/2550DN: C-10
7	M1 operation check.	2500W: PRCB PJ8PRCB-5 (REM) PRCB PJ8PRCB-8 (LOCK) 2530 DL: PRCB PJ8PRCB-5(REM) PRCB PJ8PRCB-5(LOCK) 2550/2550DN: PRCB PJ8PRCB-5(REM) PRCB PJ8PRCB-5(LOCK)	2500W: C-7 2530 DL: C-6 2550/2550DN: C-6
8	Change PRCB.	-	-

Troubleshooting

16.3.9 15: Cleaning blade pressure/retraction failure

Relevant electrical parts	
Retraction position sensor /cleaning blade (PS6) Pressure/retraction solenoid /cleaning blade (SD3) Main motor (M1)	Printer control board (PRCB)

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the M1 connector for proper connection and correct as necessary.	-	-
2	Check M1 for proper drive coupling and correct as necessary.	-	-
3	Check the SD3 connector for proper connection and correct as necessary.	-	-
4	Check the PRCB connector for proper connection and correct as necessary.	-	-
5	PS6 sensor check.	2500W: PRCB PJ9PRCB-11 (ON) 2530 DL: PRCB PJ9PRCB-11 (ON) 2550/2550DN: PRCB PJ9PRCB-11 (ON)	2500W: C-7 2530 DL: C-6 2550/2550DN: C-6
6	SD3 operation check.	2500W: PRCB PJ10PRCB-5 (REM) 2530 DL: PRCB PJ10PRCB-5 (REM) 2550/2550DN: PRCB PJ10PRCB-5 (REM)	2500W: C-6 2530 DL: C-5 2550/2550DN: C-5
7	M1 operation check.	2500W: PRCB PJ8PRCB-5 (REM) PRCB PJ8PRCB-8 (LOCK) 2530 DL: PRCB PJ8PRCB-5(REM) PRCB PJ8PRCB-5(LOCK) 2550/2550DN: PRCB PJ8PRCB-5(REM) PRCB PJ8PRCB-5(LOCK)	2500W: C-7 2530 DL: C-6 2550/2550DN: C-6
8	Change PRCB.	-	-

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16.3.10 16: Transfer belt rotation failure

Relevant electrical parts			
Belt positioning sensor (PS4) Image transfer belt unit		Printer control board (PRCB)	
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the PRCB connector for proper connection and correct as necessary.	-	-
2	PS4 sensor check.	2500W: PRCB PJ9PRCB-8 (ON) 2530 DL: PRCB PJ9PRCB-8 (ON) 2550/2550DN: PRCB PJ9PRCB-8 (ON)	2500W: C-8 2530 DL: C-6 2550/2550DN: C-6
3	Change transfer belt unit.	-	-
4	Change PRCB.	-	-

16.3.11 17: Rack rotation failure

Relevant electrical parts			
Rack motor (M2) Rack positioning sensor (PS3)		Printer control board (PRCB)	
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the M2 connector for proper connection and correct as necessary.	-	-
2	Check M2 for proper drive coupling and correct as necessary.	-	-
3	Check the PRCB connector for proper connection and correct as necessary.	-	-
4	PS3 sensor check.	2500W: PRCB PJ5PRCB-11 (ON) 2530 DL: PRCB PJ5PRCB-11 (ON) 2550/2550DN: PRCB PJ5PRCB-11 (ON)	2500W: C-8 2530 DL: C-7 2550/2550DN: C-7
5	M2 operation check.	2500W: PRCB PJ5PRCB-1~4 (Pulse Output) 2530 DL: PRCB PJ5PRCB-1~4 (Pulse Output) 2550/2550DN: PRCB PJ5PRCB-1~4 (Pulse Output)	2500W: C-9 2530 DL: C-8 2550/2550DN: C-8
6	Change PRCB.	-	-

Troubleshooting

- 16.3.12 18: Heating roller warm-up failure
- 16.3.13 19: Abnormally low heating roller temperature
- 16.3.14 1A: Abnormally high heating roller temperature
- 16.3.15 1B: Faulty thermistor

Relevant electrical parts	
Fusing unit	Printer control board (PRCB) DC power supply (DCPU)

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the fusing unit for correct installation (whether it is secured in position).	-	-
2	Check the fusing unit, PDCU, and PRCB for proper connection and correct as necessary.	-	-
3	check the lever of the safety switch and correct as necessary.	-	-
4	change the fusing unit.	-	-
5	Change PRCB.	-	-
6	Change PDCU.	-	-

16.3.16 21: Faulty OHP sensor

Relevant electrical parts	
OHP sensor (PS2)	Printer control board (PRCB)

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the PRCB connector for proper connection and correct as necessary.	-	-
2	PS2 sensor check.	2500W: PRCB PJ12PRCB-6 (ON) 2530 DL: PRCB PJ12PRCB-6 (ON) 2550/2550DN: PRCB PJ12PRCB-6 (ON)	2500W: C-10 2530 DL: C-9 2550/2550DN: C-9
3	Change PRCB.	-	-

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16.3.17 24: Faulty fusing thermistor resistor

Relevant electrical parts	
Fusing unit	Printer control board (PRCB)

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the PRCB connector for proper connection and correct as necessary.	-	-
2	Change fusing unit.	-	-
3	Change PRCB.	-	-

Troubleshooting

17. Power supply errors

17.1 Machine is not energized at all (PU operation check)

Relevant electrical parts				
Power switch Printer control board (PRCB)		DC power supply (DCPU)		
Step	Check Item	Location (Electrical component)	Result	Action
1	Is the power source voltage being applied to CN1DCPU1 on DCPU?	J-6	NO	Check wiring from power outlet to PG1 to CN1DCPU1.
2	Are fuses (F1 and F2) on DCPU conducting?	-	NO	Change DCPU.
3	Are DC24 V and DC5 V being applied to PJ2PRCB on the printer control board?	2500W: G-6	NO	Change DCPU.
		2530 DL: G-5 2550/2550DN: G-5	YES	Change PRCB.

17.2 Control panel indicators do not light

Relevant electrical parts				
Image processing board (IPB) Control panel		DC power supply (DCPU)		
Step	Check Item	Location (Electrical component)	Result	Action
1	Is the power source voltage being applied to CN1DCPU1 on DCPU?	J-6	NO	Check wiring from power outlet to PG1 to CN1DCPU1.
2	Are fuses (F1 and F2) on DCPU conducting?	-	NO	Change DCPU.
3	Is PJ302PRCB on PRCB properly connected?	2500W: G-10	NO	Reconnect.
	Is CN12IPB on IPB properly connected?	2530 DL: J-9		
	Is CN13IPB on IPB properly connected?	2550/2550DN: J-9		
4	Is PJ10P on control panel properly connected?	-	NO	Reconnect.
			YES	Change control panel. Change IPB.

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Troubleshooting

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17.3 Fusing heaters do not operate

Relevant electrical parts				
Safety switch (SW2) Fusing unit		DC power supply (DCPU)		
Step	Check Item	Location (Electrical component)	Result	Action
1	Is the power source voltage being applied to CN1DCPU1 on DCPU? The top cover and front cover should in closed position at this time.	J-6	NO	Check wiring from power outlet to PG1 to CN1DCPU1.
2	Is the power source voltage being applied to CN2 on DCPU?	2500W: J-6 2530 DL: J-5 2550/2550DN: J-5	YES	Change the fusing unit.
			NO	Change DCPU.

Troubleshooting

18. Miscellaneous errors

18.1 List of miscellaneous malfunctions

Message in the Status Display	Description
Fatal error engine i/f	• A communication error of some sort has occurred in the USB inter- face.
ROM error	• A controller ROM error has been detected.
SDRAM error	• An SDRAM read or write error has been detected.
Fatal error EEPROM	• Writing to the parameter chip has failed.
Fatal error data decompression	• Data decompression has failed due to an error in print data.
Fatal Error Non-Supported Engine	• A connection is made to an unsupported engine controller.
Fatal Error IDC sensor	• An error has occurred in the IDC sensor.
Controller internal error	• A control error has been detected in the printer.
Fatal error DBE	• There is an abnormal condition at N4DBE (DBE: Dual Beam Embed- ded) on the image processing board.
Fatal error video transfer	• It failed to write data while transferring printed data.
Fatal print spooler error	• Communication error with the printed data.

18.1.1 Fatal error engine I/F

Relevant electrical parts			
Image processing board (IPB)		Printer control board (PRCB)	
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Turn OFF the power switch, wait for 10 sec. or more, and turn ON the power switch.	-	-
2	Check the USB cable for proper connection and correct as necessary.	-	-
3	Check the IPB connector for proper connection and correct as necessary.	-	-
4	Check the PRCB connector for proper connec- tion and correct as necessary.	-	-
5	Change IPB.	-	-
6	Change PRCB.	-	-

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Troubleshooting

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18.2 ROM error

Relevant electrical parts			
Image processing board (IPB)			
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Turn OFF the power switch, wait for 10 sec. or more, and turn ON the power switch.	-	-
2	Check the IPB connector for proper connection and correct as necessary.	-	-
3	Change IPB.	-	-

18.2.1 SDRAM error

Relevant electrical parts			
Printer control board (PRCB)		Image processing board (IPB)	
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Turn OFF the power switch, wait for 10 sec. or more, and turn ON the power switch.	-	-
2	Check the PRCB connector for proper connection and correct as necessary.	-	-
3	Check the IPB connector for proper connection and correct as necessary.	-	-
4	Change PRCB.	-	-
5	Change IPB.	-	-

Troubleshooting

18.3 Fatal error EEPROM

Relevant electrical parts			
Printer control board (PRCB) Image processing board (IPB)		Parameter chip	
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Turn OFF the power switch, wait for 10 sec. or more, and turn ON the power switch.	-	-
2	Check the PRCB connector for proper connection and correct as necessary.	-	-
3	Check parameter chip (PJ24) on PRCB for proper connection and correct as necessary.	-	-
4	Check the IPB connector for proper connection and correct as necessary.	-	-
5	Change the parameter chip.	-	-
6	Change PRCB.	-	-
7	Change IPB.	-	-

18.3.1 Fatal error data decompression

Relevant electrical parts			
Image processing board (IPB)			
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Turn OFF the power switch, wait for 10 sec. or more, and turn ON the power switch.	-	-
2	Check the IPB connector for proper connection and correct as necessary.	-	-
3	Change IPB.	-	-

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Troubleshooting

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18.4 Fatal error non-supported engine

Relevant electrical parts			
Printer control board (PRCB)		Image processing board (IPB)	
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Turn OFF the power switch, wait for 10 sec. or more, and turn ON the power switch.	-	-
2	Check to see if PRCB is compatible with the printer.	-	-
3	Check the PRCB connector for proper connection and correct as necessary.	-	-
4	Check the IPB connector for proper connection and correct as necessary.	-	-
5	Change PRCB.	-	-
6	Change IPB.	-	-

18.5 Fatal error IDC sensor

Relevant electrical parts			
IDC sensor (IDC)		Printer control board (PRCB)	
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Turn OFF the power switch, wait for 10 sec. or more, and turn ON the power switch.	-	-
2	Check the IDC connector for proper connection and correct as necessary.	-	-
3	Check the PRCB connector for proper connection and correct as necessary.	-	-
4	IDC sensor check.	-	-
5	Change IDC.	-	-
6	Change PRCB.	-	-

Troubleshooting

18.6 Controller internal error

Relevant electrical parts			
Image processing board (IPB)			
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the IPB connector for proper connection and correct as necessary.	-	-
2	Change IPB.	-	-

18.7 Fatal error DBE

Relevant electrical parts			
Image processing board (IPB)			
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Turn OFF the power switch, wait for 10 sec. or more, and turn ON the power switch.	-	-
2	Check the IPB connector for proper connection and correct as necessary.	-	-
3	Change IPB.	-	-

18.7.1 Fatal error video transfer

Relevant electrical parts			
Image processing board (IPB)			
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Turn OFF the power switch, wait for 10 sec. or more, and turn ON the power switch.	-	-
2	Check the IPB connector for proper connection and correct as necessary.	-	-
3	Change IPB.	-	-

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Troubleshooting



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18.8 Fatal print spooler error

Relevant electrical parts			
Image processing board (IPB)			
Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Turn OFF the power switch, wait for 10 sec. or more, and turn ON the power switch.	-	-
2	Check the PC and the printer for proper connection, and correct as necessary.	-	-
3	Change IPB.	-	-

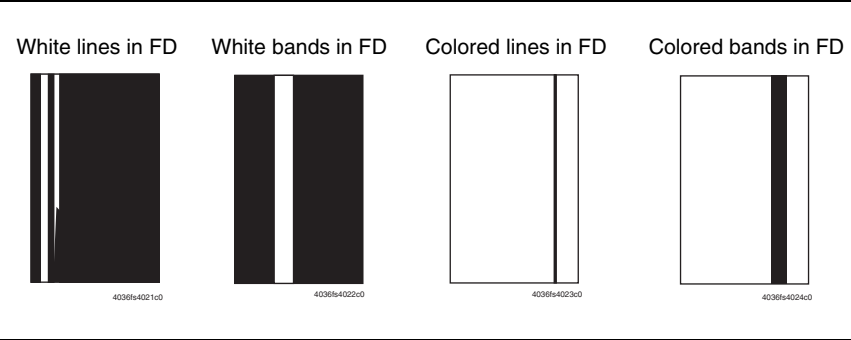
Troubleshooting

19. Image quality problems

19.1 Solution

19.1.1 White lines in FD, white bands in FD, colored lines in FD, and colored bands in FD

A. Typical faulty images



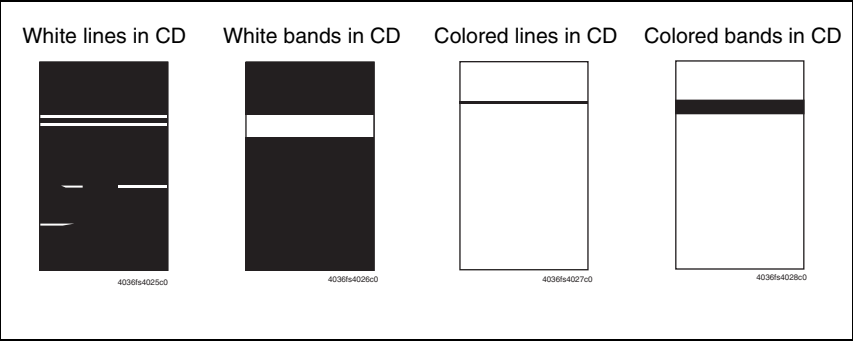
B. Troubleshooting procedure

Step	Section	Check item	Result	Action
1	Drum cartridge	Are there scratches or lines evident on the photo conductor surface?	YES	Replace the drum cartridge.
2		Is the outside dirty?	YES	Clean.
3		Is the connector or contact terminal of the drum cartridge connected properly?	NO	Clean the contact terminal or reconnect the connector.
4	PH unit	Is the connector or contact terminal of the PH unit connected properly?	NO	Clean the contact terminal or reconnect the connector.
5		Is the window surface dirty?	YES	Clean.
6	Transfer belt unit	Is the transfer belt dirty with fingerprints or oil?	YES	Clean.
7		Is the transfer belt dirty or scratched?	YES	Wipe the surface clean of dirt with a soft cloth. Replace the scratched transfer belt with a new transfer belt unit.
8		Is the 2nd transfer roller dirty or scratched?	YES	Replace the 2nd transfer roller.
9	Media path	Is there a foreign object in the media path?	YES	Remove the foreign object.
10	Fusing unit	Is the fusing entrance guide plate dirty or scratched?	YES	Clean. Replace the fusing unit.
11		Is the separation claw dirty?	YES	Replace the fusing unit.
12		Have steps 1 to11 eliminated the problem?	NO	Replace the toner cartridge. → Replace the PH unit.

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

19.1.2 White lines in CD, white bands in CD, colored lines in CD, and colored bands in CD

A. Typical faulty images



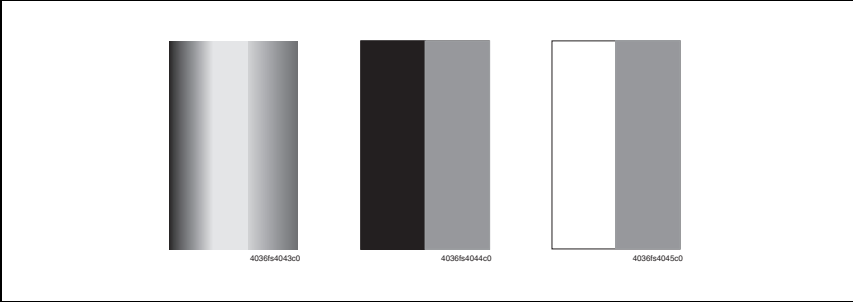
B. Troubleshooting procedure

Step	Section	Check item	Result	Action
1	Drum cartridge	Are there scratches or lines evident on the photo conductor surface?	YES	Replace the drum cartridge.
2		Is the outside dirty?	YES	Clean.
3		Is the connector or contact terminal of the drum cartridge connected properly?	NO	Clean the contact terminal or reconnect the connector.
4	Toner cartridge	Is the developing bias contact terminal in good contact?	NO	Clean the contact terminal or check the terminal position.
5	PH unit	Is the connector or contact terminal of the PH unit connected properly?	NO	Clean the contact terminal or reconnect the connector.
6	Transfer belt unit	Is the transfer belt dirty or scratched?	YES	Wipe the surface clean of dirt with a soft cloth. Replace the scratched transfer belt with a new transfer belt unit.
7		Is the 2nd transfer roller dirty or scratched?	YES	Replace the 2nd transfer roller.
8	Media path	Is there a foreign object in the media path?	YES	Remove the foreign object.
9	Fusing unit	Is the fusing entrance guide plate dirty or scratched?	YES	Clean.
10		Is the separation claw dirty.	YES	Replace the fusing unit.
11		Have steps 1 to 10 eliminated the problem?	NO	Replace the DC power supply.

Troubleshooting

19.1.3 Uneven density in FD

A. Typical faulty images



B. Troubleshooting procedure

Step	Section	Check item	Result	Action
1	Drum cartridge	Are there scratches or lines evident on the photo conductor surface?	YES	Replace the drum cartridge.
2		Is the outside dirty?	YES	Clean.
3	PH unit	Is the window surface dirty?	YES	Clean.
4	Transfer belt unit	Is the transfer belt dirty or scratched?	YES	Wipe the surface clean of dirt with a soft cloth. Replace the scratched transfer belt with a new transfer belt unit.
5		Is the terminal dirty?	YES	Clean.
6		Is the 2nd transfer roller dirty or scratched?	YES	Replace the 2nd transfer roller.
7		Have steps 1 to 6 eliminated the problem?	NO	Replace the toner cartridge. → Replace the PH Unit. → Replace high voltage unit.

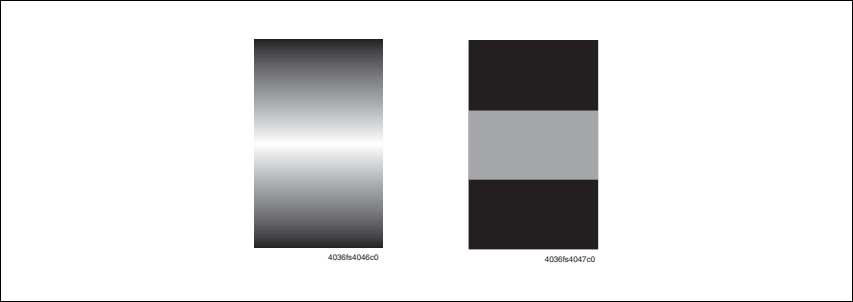
magcolor 2500W  
magcolor 2530 DL  
magcolor 2550/2550DN

Troubleshooting

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

19.1.4 Uneven density in CD

A. Typical faulty images



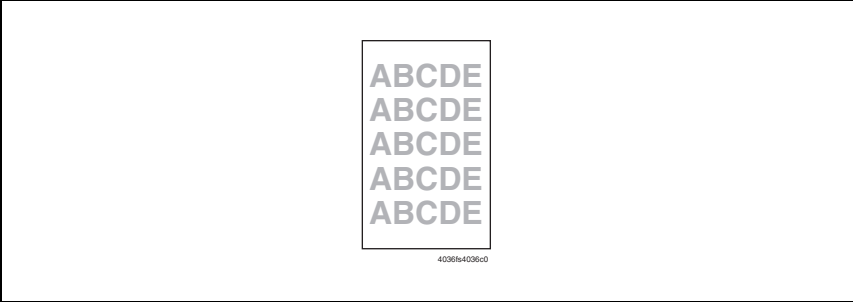
B. Troubleshooting procedure

Step	Section	Check item	Result	Action
1	Drum cartridge	Are there scratches or lines evident on the photo conductor surface?	YES	Replace the drum cartridge.
2		Is the outside dirty?	YES	Clean.
3	Transfer belt unit	Is the contact on the rail of the transfer belt unit in good contact with the mating part?	NO	Check or correct contact.
4		Is the transfer belt dirty with fingerprints or oil?	YES	Clean.
5		Is the transfer belt dirty or scratched?	YES	Wipe the surface clean of dirt with a soft cloth. Replace the scratched transfer belt with a new transfer belt unit.
6		Is the terminal dirty?	YES	Clean.
7		Is the 2nd transfer roller dirty or scratched?	YES	Replace the 2nd transfer roller.
8		Have steps 1 to 7 eliminated the problem?	NO	Replace the toner cartridge. → Replace high voltage unit.

Troubleshooting

19.1.5 Low image density

A. Typical faulty images



B. Troubleshooting procedure

Step	Section	Check item	Result	Action
1	Drum cartridge	Is the outside dirty?	YES	Clean.
2	PH unit	Is the window surface dirty?	YES	Clean.
3	Transfer belt unit	Is the contact on the rail of the transfer belt unit in good contact with the mating part?	NO	Check or correct contact.
4		Is the contact dirty?	YES	Clean.
5	2nd transfer roller	Is the contact dirty?	YES	Clean.
6	Media	Is the media damp?	YES	Replace the media with new media that has just been unwrapped.
7	IDC sensor	Is the sensor dirty?	YES	Clean.
8		Have steps 1 to 7 eliminated the problem?	NO	Replace the toner cartridge. → Replace the transfer belt unit. → Replace the 2nd transfer roller. → Replace the PH unit. → Replace the IDC sensor. → Replace the printer control board. → Replace the high voltage unit.

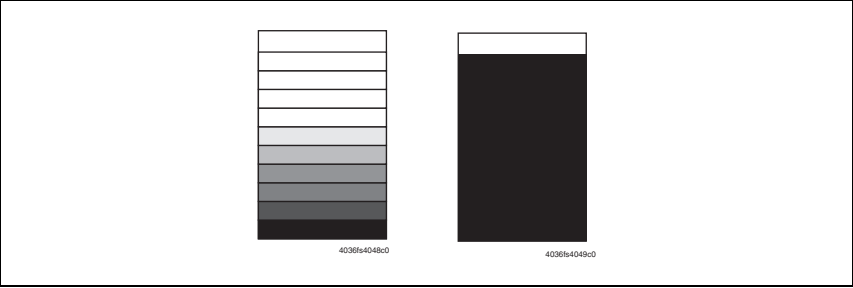
magcolor 2500W  
magcolor 2530 DL  
magcolor 2550/2550DN

Troubleshooting

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

19.1.6 Gradation reproduction failure

A. Typical faulty images



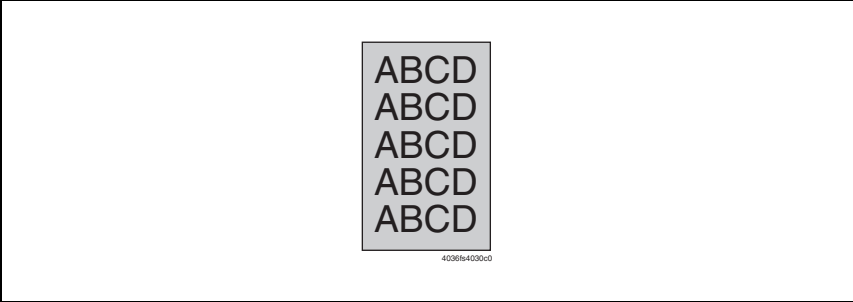
B. Troubleshooting procedure

Step	Section	Check item	Result	Action
1	Drum cartridge	Is the outside dirty?	YES	Clean.
2	PH unit	Is the window surface dirty?	YES	Clean.
3	IDC sensor	Is the sensor dirty?	YES	Clean.
4		Have steps 1 to 3 eliminated the problem?	NO	Replace the toner cartridge. → Replace the PH unit. → Replace the IDC sensor. → Replace the high voltage unit.

Troubleshooting

19.1.7 Foggy background

A. Typical faulty images



B. Troubleshooting procedure

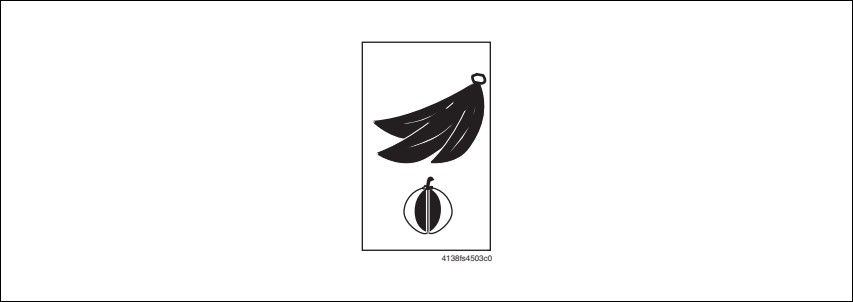
Step	Section	Check item	Result	Action
1	Drum cartridge	Are there scratches or lines evident on the photo conductor surface?	YES	Replace the drum cartridge.
2		Is the outside dirty?	YES	Clean.
3		Is the connector or contact terminal of the drum cartridge connected properly?	NO	Clean the contact terminal or reconnect the connector.
4	Toner cartridge	Is the developing bias contact terminal in good contact?	NO	Clean the contact terminal or check the terminal position.
5	PH unit	Is the connector or contact terminal of the PH unit connected properly?	NO	Clean the contact terminal or reconnect the connector.
6		Is the window surface dirty?	YES	Clean.
7	IDC sensor	Is the sensor dirty?	YES	Clean.
8		Have steps 1 to 7 eliminated the problem?	NO	Replace the toner cartridge. → Replace the PH unit. → Replace the IDC sensor.



magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

19.1.8 Poor color reproduction

A. Typical faulty images



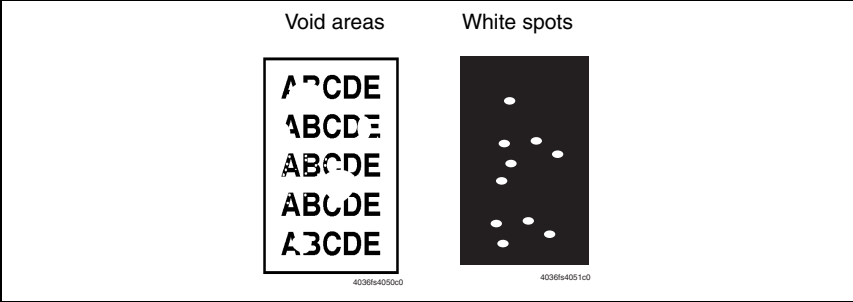
B. Troubleshooting procedure

Step	Section	Check item	Result	Action
1	Media	Is the media damp?	YES	Replace the media with new media that has just been unwrapped.
2	Transfer belt unit	Is the terminal dirty?	YES	Clean.
3	IDC sensor	Is the sensor dirty?	YES	Clean.
4		Have steps 1 to 3 eliminated the problem?	NO	Replace the transfer belt unit. → Replace the IDC sensor. → Replace the printer control board. → Replace the high voltage unit.

Troubleshooting

19.1.9 Void areas, white spots

A. Typical faulty images



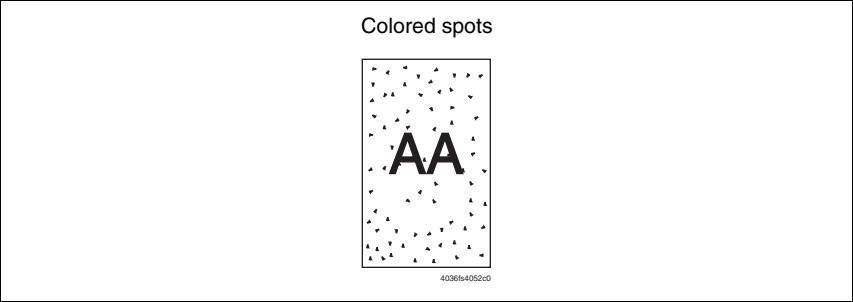
B. Troubleshooting procedure

Step	Section	Check item	Result	Action
1	Drum cartridge	Are there scratches or lines evident on the photo conductor surface?	YES	Replace the drum cartridge.
2		Is the outside dirty?	YES	Clean.
3	Transfer belt unit	Is the transfer belt dirty with fingerprints or oil?	YES	Clean.
4		Is the transfer belt dirty or scratched?	YES	Wipe the surface clean of dirt with a soft cloth. Replace the scratched transfer belt with a new transfer belt unit.
5		Is the 2nd transfer roller dirty or scratched?	YES	Replace the 2nd transfer roller.
6		Is the ground terminal connected properly?	NO	Correct.
7	Media path	Is there a foreign object in the media path?	YES	Remove the foreign object.
8		Is the fusing entrance guide plate dirty or scratched?	YES	Clean or replace.
9		Have steps 1 to 8 eliminated the problem?	NO	Replace the toner cartridge.

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

19.1.10 Colored spots

A. Typical faulty images



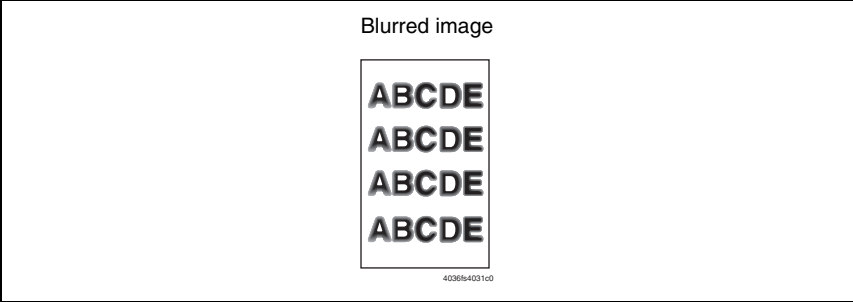
B. Troubleshooting procedure

Step	Section	Check item	Result	Action
1	Drum cartridge	Are the spots in a single color?	NO	Replace the drum cartridge.
2		Are there scratches or lines evident on the photo conductor surface?	YES	Replace the drum cartridge.
3	Transfer belt unit	Is the Transfer Belt dirty with fingerprints or oil?	YES	Clean.
4		Is the transfer belt dirty or scratched?	YES	Wipe the surface clean of dirt with a soft cloth. Change a scratched transfer belt for a transfer belt unit.
5		Is the 2nd transfer roller dirty or scratched?	YES	Replace the 2nd transfer roller.
6	Media path	Is there a foreign object in the media path?	YES	Remove the foreign object.
7	Fusing unit	Is the fusing roller dirty or scratched?	YES	Replace the fusing unit.
8		Have steps 1 to 7 eliminated the problem?	NO	Replace the toner cartridge.

Troubleshooting

19.1.11 Blurred image

A. Typical faulty images



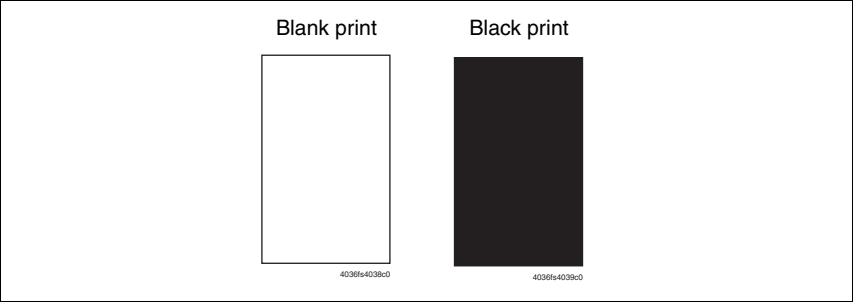
B. Troubleshooting procedure

Step	Section	Check item	Result	Action
1	PH unit	Is the window surface dirty?	YES	Clean.
2	Drum cartridge	Is the outside dirty?	YES	Clean.
3		Have steps 1 to 2 eliminated the problem?	NO	Replace the toner cartridge. → Replace the PH unit.

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

19.1.12 Blank copy, black copy

A. Typical faulty images



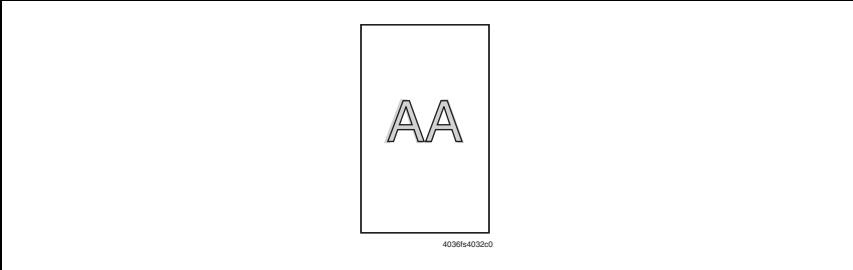
B. Troubleshooting procedure

Step	Section	Check item	Result	Action
1	Image check	Does a blank print occur?	YES	Check the PH unit connector for proper connection.
2	Drum cartridge	Is the gear of the drum cartridge drive mechanism installed properly?	NO	Check or correct the drive transmitting section or replace the drum cartridge.
3		Is the charge corona voltage contact or photo conductor ground contact of the drum cartridge connected properly?	NO	Check, clean, or correct the contact.
4	High voltage unit	Is the connector connected properly?	NO	Reconnect.
5		Have steps 1 to 4 eliminated the problem?	NO	Replace the high voltage unit. → Replace the printer control board. → Replace the PH unit.

Troubleshooting

19.1.13 Incorrect color image registration

A. Typical faulty images



B. Troubleshooting procedure

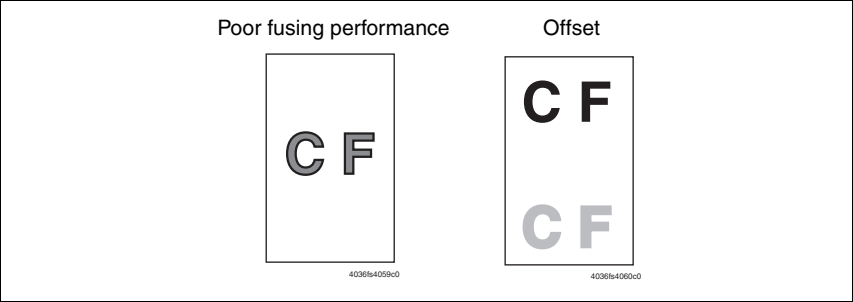
Step	Section	Check item	Result	Action
1	Transfer belt unit	Is the transfer belt dirty with fingerprints or foreign matter?	YES	Clean.
2		Is the transfer belt dirty or scratched?	YES	Wipe the surface clean of dirt with a soft cloth. Replace the scratched transfer belt with a new transfer belt unit.
3		Is the drive coupling to the machine dirty?	YES	Clean.
4		Is the 2nd transfer roller dirty or scratched?	YES	Replace the 2nd transfer roller.
5	Drum cartridge	Is the drum cartridge installed in position?	NO	Reinstall the drum cartridge.
6		Is the photo conductor scratched?	YES	Replace the drum cartridge.
7		Have steps 1 to 6 eliminated the problem?	NO	Replace the PH unit. → Replace the printer control board.

magcolor 2500W  
magcolor 2530 DL  
magcolor 2550/2550DN

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

19.1.14 Poor fusing performance, offset

A. Typical faulty images



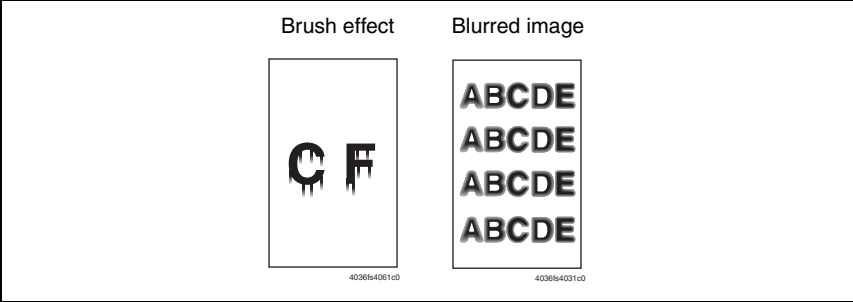
B. Troubleshooting procedure

Step	Section	Check item	Result	Action
1	Media	Does the media being used conform to specifications?	NO	Replace the media.
2	Fusing unit	Are the fuser separator levers in the correct position?	NO	Correct.
3		Have steps 1 to 2 eliminated the problem?	NO	Replace the fusing unit. → Replace the printer control board.

Troubleshooting

19.1.15 Brush effect, blurred image

A. Typical faulty images



B. Troubleshooting procedure

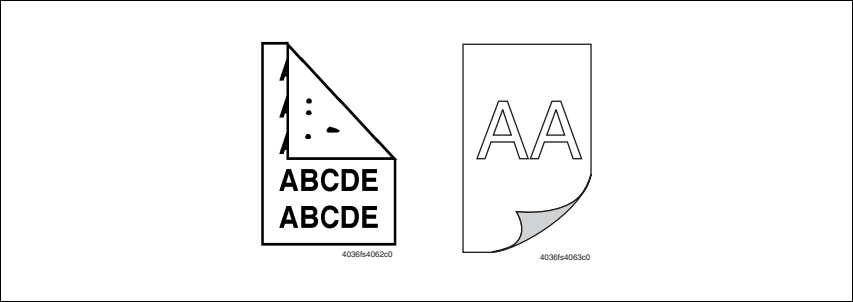
Step	Section	Check item	Result	Action
1	Media	Is the media damp?	YES	Replace the media with new media that has just been unwrapped.
2		Does the media being used conform to specifications?	NO	Replace the media.
3	Drum cartridge	Are there scratches or lines evident on the photo conductor surface?	YES	Replace the drum cartridge.
4	Transfer belt unit	Is the transfer belt dirty with fingerprints or oil?	YES	Clean.
5		Is the transfer belt dirty or scratched?	YES	Wipe the surface clean of dirt with a soft cloth. Replace the scratched transfer belt with a new transfer belt unit.
6	Fusing unit	Is the fusing entrance guide plate dirty?	YES	Clean.
			NO	Replace the fusing unit.



magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

19.1.16 Back marking

A. Typical faulty images



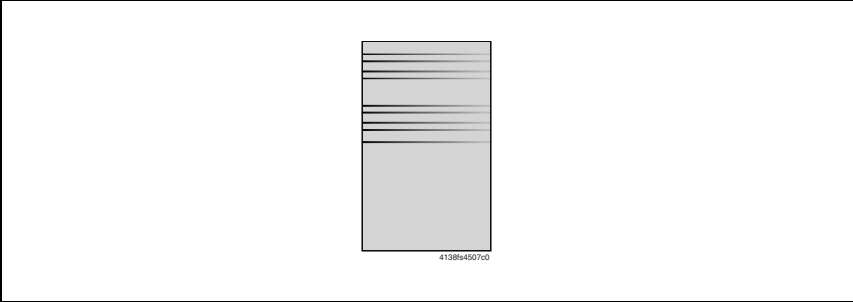
B. Troubleshooting procedure

Step	Section	Check item	Result	Action
1	Media path	Is there a foreign object in the media path?	YES	Remove the foreign object.
2	Fusing unit	Is the fusing entrance guide plate dirty or scratched?	YES	Clean or replace.
3		Is the fusing roller scratched or dirty?	YES	Replace the fusing unit.
4	Transfer belt unit	Is the transfer belt dirty with fingerprints or foreign matter?	YES	Clean.
5		Is the 2nd transfer roller dirty or scratched?	YES	Replace the 2nd transfer roller.
6		Have steps 1 to 5 eliminated the problem?	NO	Replace the transfer belt unit. → Replace the high voltage unit.

Troubleshooting

19.1.17 Uneven pitch

A. Typical faulty images



B. Troubleshooting procedure

Step	Section	Check item	Result	Action
1	Toner cartridge	Is the toner cartridge for each color of toner installed in position?	NO	Reinstall.
2	PH unit	Is the PH unit secured in position with the fixing screw?	NO	Secure it in position.
3	Toner cartridge	Is the drive mechanism of the toner Cartridge dirty or damaged?	YES	Clean or replace the toner cartridge.
4	Drum cartridge	Is the photo conductor dirty, scratched, or worn?	YES	Replace the drum cartridge.
5	2nd transfer roller	Are the 2nd transfer roller and drive mechanism dirty, deformed, or worn?	YES	Replace the 2nd transfer roller.
6	Fusing unit	Are the rollers and drive mechanism of the fusing unit dirty, scratched, deformed, or worn?	YES	Replace the fusing unit.
7		Have steps 1 to 6 eliminated the problem?	NO	Replace the transfer belt unit.

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

Blank Page

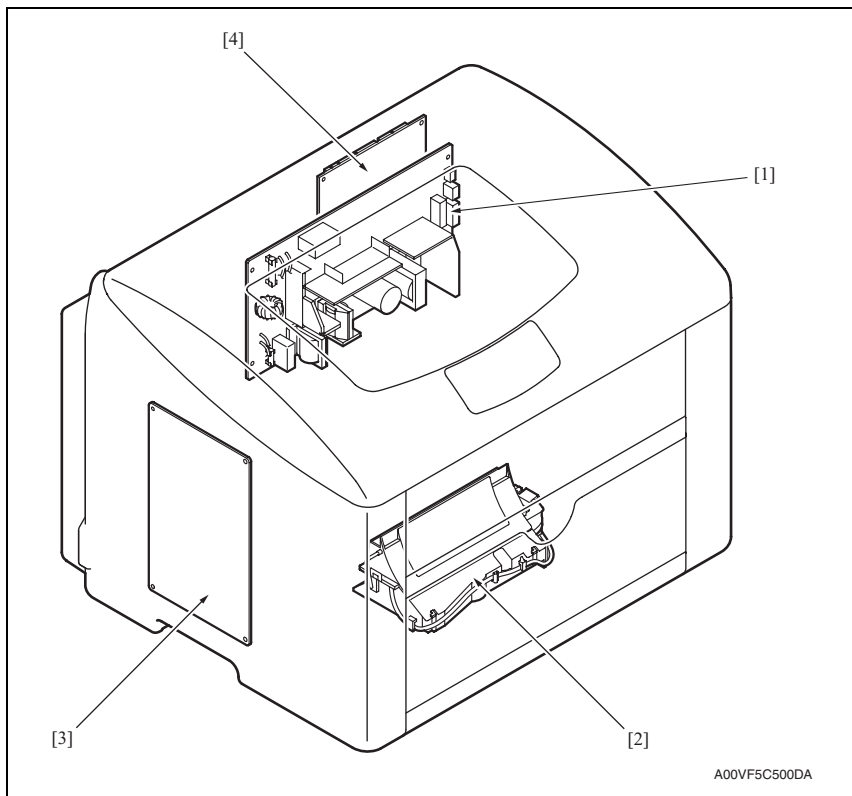
Troubleshooting

# Appendix

## 20. Parts layout drawing

### 20.1 Main unit

#### A. For magicolor 2500W

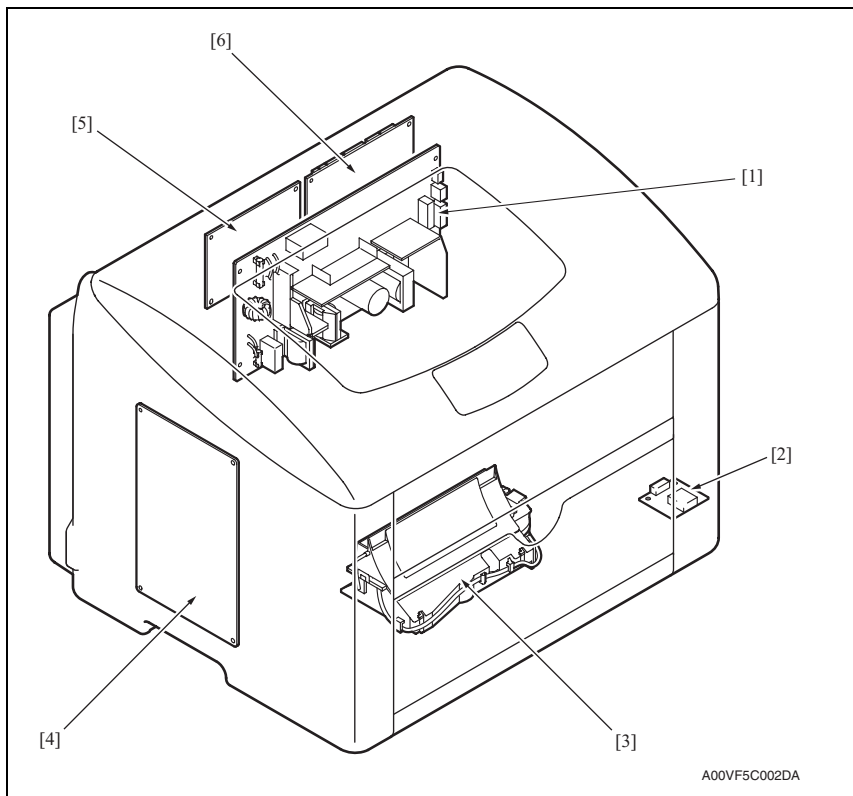


[1] DC power supply (DCPU)

[2] PH unit (PH)

[3] High voltage unit (HV)

[4] Printer control board (PRCB)

**B. For magicolor 2530 DL/magicolor 2550/magicolor 2550DN**

[1] DC power supply (DCPU)

[4] High voltage unit (HV)

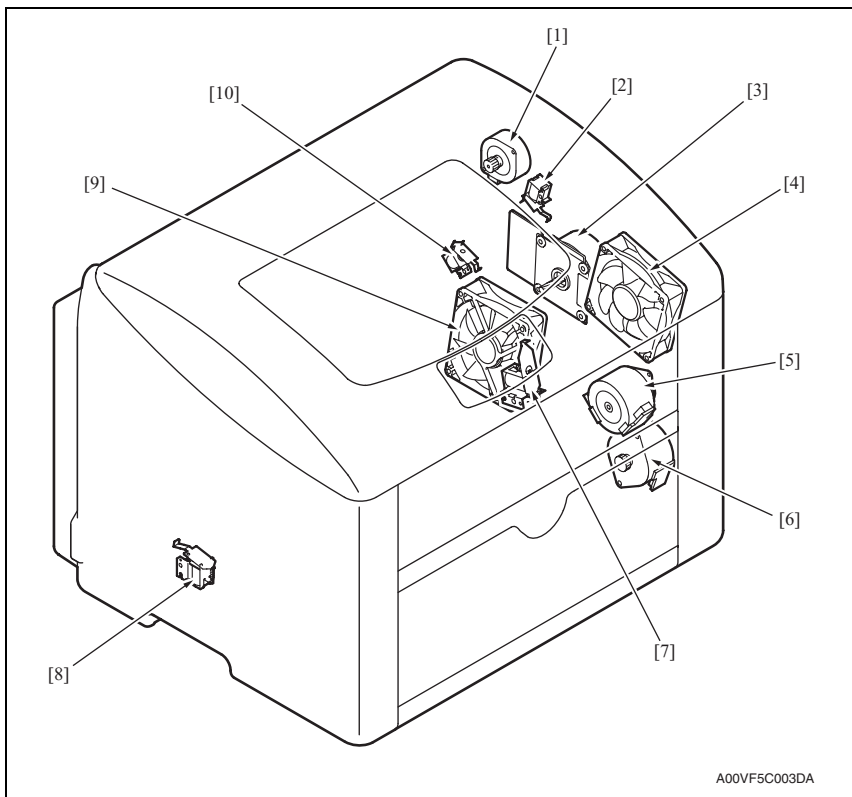
[2] USB board (USB) \*

[5] Image processing board (IPB)

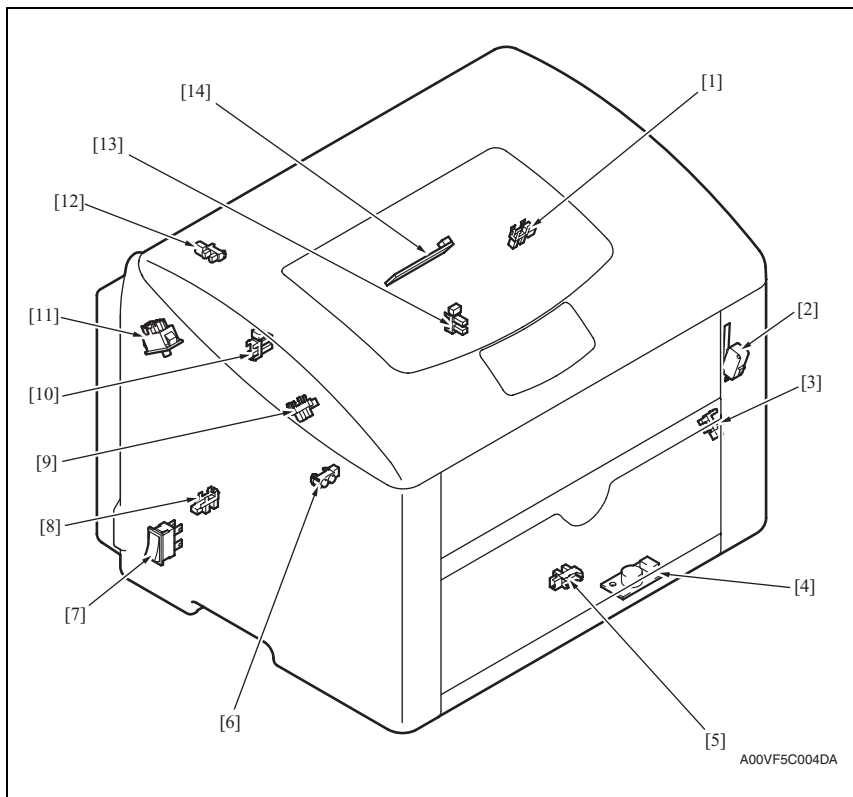
[3] PH unit (PH)

[6] Printer control board (PRCB)

\*: Only for the magicolor 2530 DL and magicolor 2550DN.

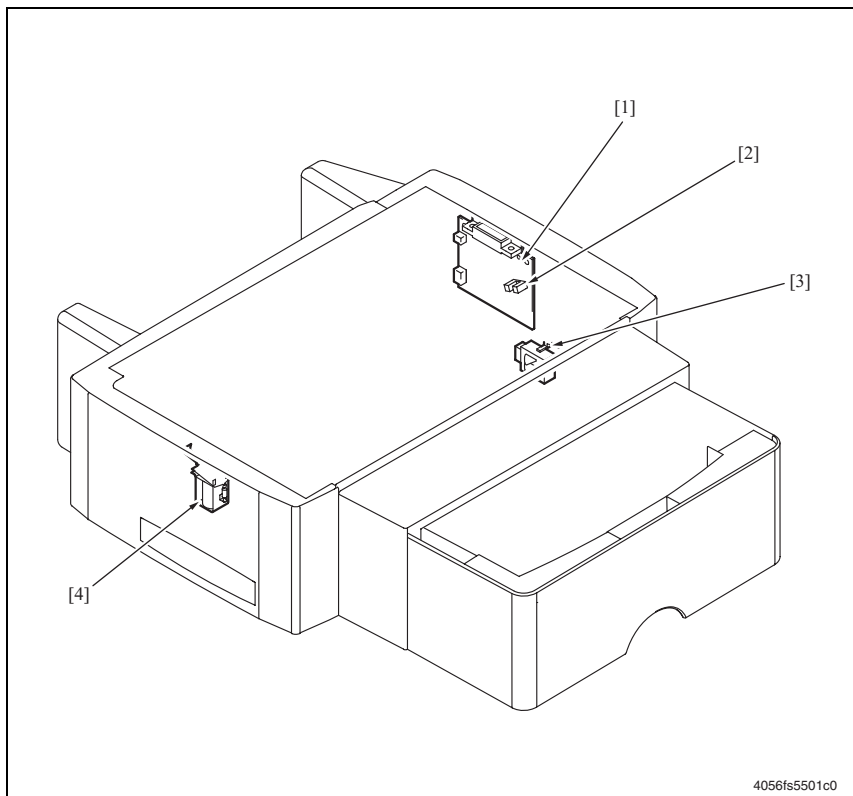


- |  |   |
|--|---|
| [1] Fusing motor (M4)                                  | [6] Rack motor (M2)   |
| [2] Pressure/retraction solenoid /cleaning blade (SD3) | [7] Registration roller solenoid (SD2)                      |
| [3] Main motor (M1)                                    | [8] Tray1 paper pick-up solenoid (SD1)                      |
| [4] Ventilation fan motor (FM2)                        | [9] Power supply cooling fan motor (FM1)                    |
| [5] Developing motor (M3)                              | [10] Pressure/retraction solenoid /2nd image transfer (SD4) |



- |  |   |
|--|---|
| [1] Retraction position sensor /cleaning blade (PS6) | [8] Fusing paper loop sensor (PS8)                        |
| [2] Safety switch (SW2)                              | [9] Registration sensor (PS1)                             |
| [3] Rack positioning sensor (PS3)                    | [10] Belt positioning sensor (PS4)                        |
| [4] Temperature/ humidity sensor (TEM/HUMS)          | [11] Fusing safety switch (SW3)                           |
| [5] Tray1 paper empty sensor (PS9)                   | [12] Exit sensor (PS7)                                    |
| [6] OHP sensor (PS2)                                 | [13] Retraction position sensor /2nd image transfer (PS5) |
| [7] Power switch (SW1)                               | [14] IDC sensor (IDC)                                     |

## 20.2 Lower Feeder Unit (option)



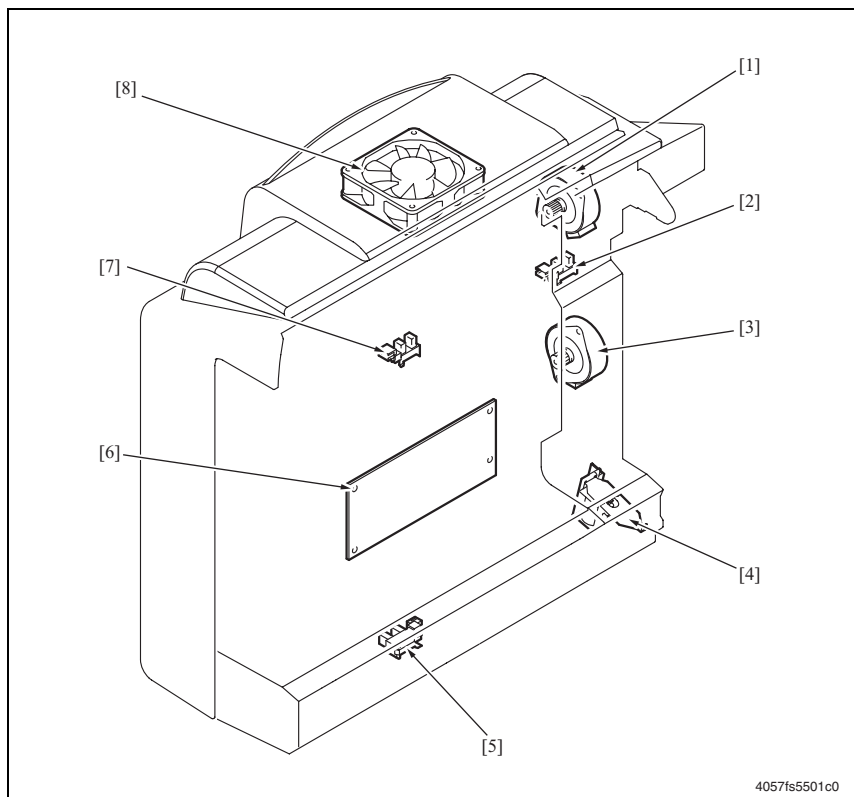
[1] PF drive board (PFDB)

[2] Paper empty sensor (PS1)

[3] Tray set detecting switch (SW1)

[4] Paper pick-up solenoid (SD1)



**20.3 Duplex Option (option)**

- [1] Reverse motor (M2)
- [2] Door sensor (PS2)
- [3] Transport motor (M1)
- [4] Registration solenoid (SD1)

- [5] Paper loop sensor (PS1)
- [6] AD drive board (ADDB)
- [7] Transport sensor (PS3)
- [8] Cooling fan motor (FM1)

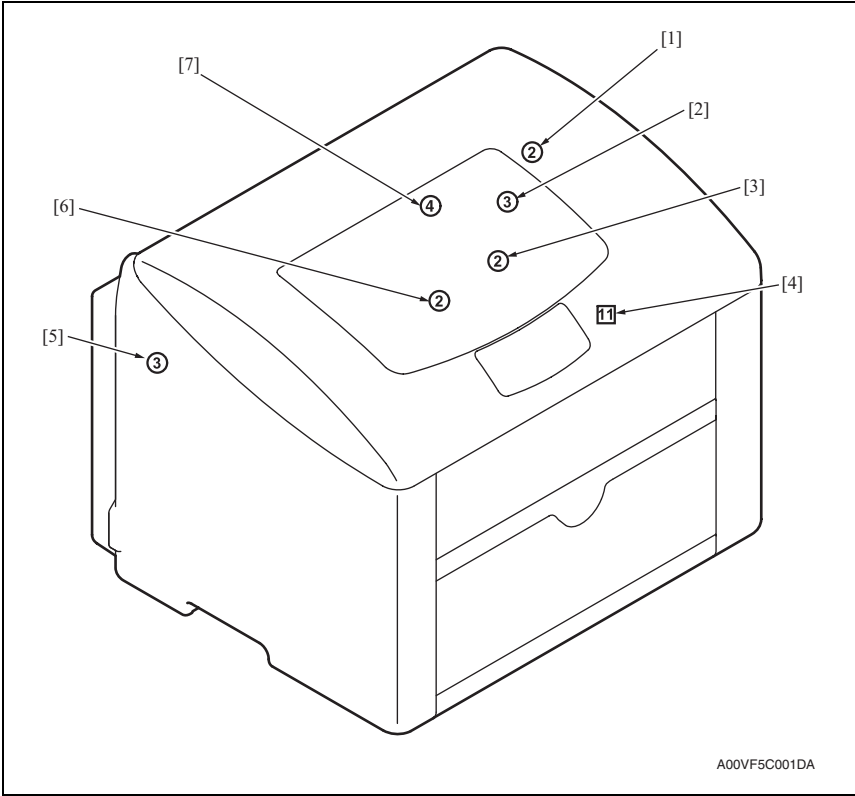
21. Connector layout drawing

Description

Number of Pin

① Possible to confirm by removing external cover.

[1] Not possible to confirm by removing external cover.



A00VF5C001DA

No.	CN No.	Location	No.	CN No.	Location
[1]	CN3	2500W: D-6 2530 DL: D-5 2550/2550DN: D-5	[5]	CN7	2500W: None 2530 DL: C-10~11 2550/2550DN: C-10~11
[2]	CN2	2500W: D-6 2530 DL: D-5 2550/2550DN: D-5	[6]	CN6	2500W: D-11 2530 DL: D-10 2550/2550DN: D-10
[3]	CN5	2500W: D-11 2530 DL: D-10 2550/2550DN: D-10	[7]	CN4	2500W: D-6 2530 DL: D-5 2550/2550DN: D-5
[4]	CN1	2500W: D-7~8 2530 DL: D-6~7 2550/2550DN: D-6~7			

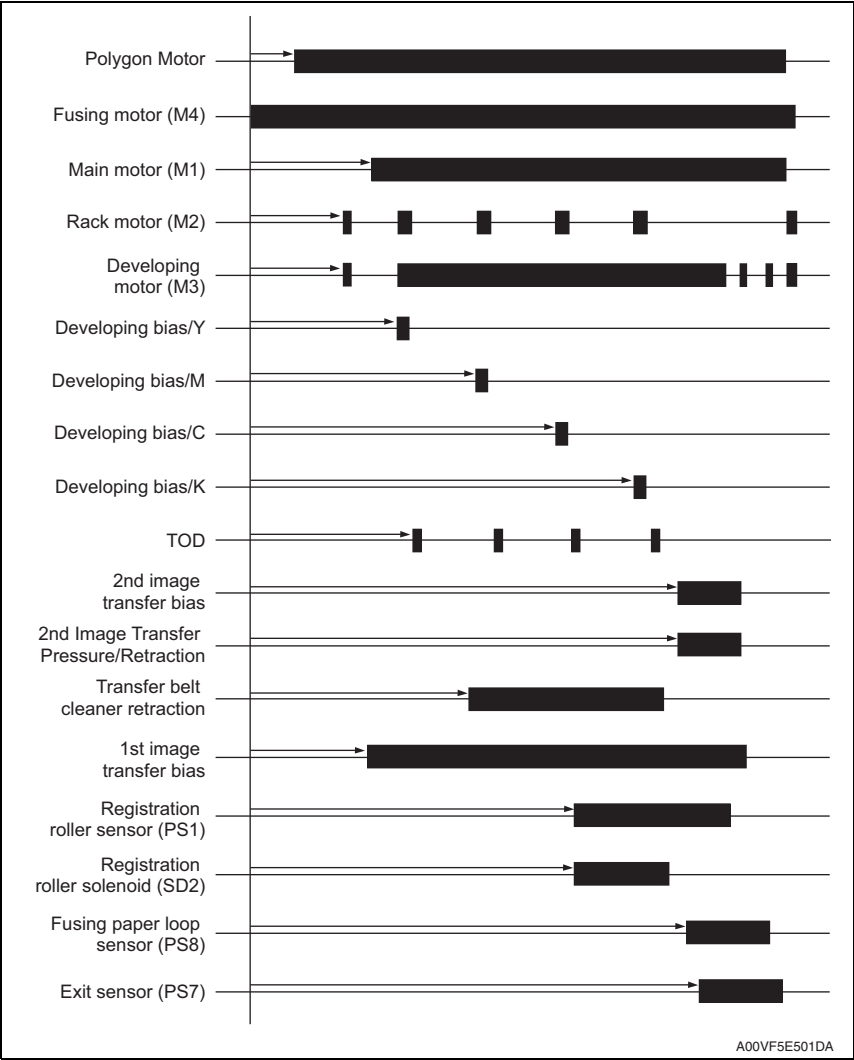
magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

Appendix

magicolor 2500W  
magicolor 2530 DL  
magicolor 2550/2550DN

22. Timing chart

Color A4



Appendix



KONICA MINOLTA

**SERVICE MANUAL**

FIELD SERVICE

---





# Lower Feeder Unit

# Revision history

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.

2006/08	1.0	—	Issue of the first edition
Date	Service manual Ver.	Revision mark	Descriptions of revision

# CONTENTS

## Lower Feeder Unit

### General

1.	Product specifications .....	1
1.1	Type .....	1
1.2	Paper type .....	1
1.3	Machine specifications.....	1
1.4	Operating environment .....	1

### Maintenance

2.	Periodic check .....	3
2.1	Maintenance procedure (Periodic parts check) .....	3
2.1.1	Pick-up roller .....	3
3.	Other .....	4
3.1	Disassembly/adjustment prohibited items .....	4
3.2	Disassembly/Assembly list (Other parts) .....	5
3.3	Disassembly/Assembly procedure.....	5
3.3.1	Lower Feeder Unit.....	5
3.3.2	Tray .....	6
3.3.3	Rear cover.....	6
3.3.4	Paper pick-up unit .....	6
3.3.5	PF drive board (PFDB) .....	8
3.3.6	Paper pick-up solenoid (SD1) .....	8
3.3.7	Tray set detecting switch (SW1).....	9

### Troubleshooting

4.	Jam display .....	11
4.1	Misfeed display .....	11
4.2	Misfeed display resetting procedure .....	11
4.3	Sensor layout.....	12
4.3.1	magicolor 2530 DL/magicolor 2550/magicolor 2550DN (mounted with the Lower Feeder Unit and Duplex Option) .....	12
4.4	Solution.....	13
4.4.1	Initial check items.....	13
4.4.2	Misfeed at Tray 2 paper feed section .....	13

Lower Feeder Unit

General

Maintenance

Troubleshooting

Blank Page

# General

## 1. Product specifications

### 1.1 Type

Name	Add-on 500-sheet paper feed cassette
Type	Front-loading type
Installation	Desk type
Document alignment	Center

### 1.2 Paper type

Paper size	A4S/LetterS
Paper type	<ul style="list-style-type: none"><li>• Plain paper: 60 to 90 g/m<sup>2</sup> (16 to 24 lb)</li><li>• Recycled paper: 60 to 90 g/m<sup>2</sup> (16 to 24 lb)</li></ul>
Capacity	500 sheets

### 1.3 Machine specifications

Power requirements	DC 24 V ± 10 % (supplied from the main unit)
	DC 5 V ± 5 %
Max. power consumption	12 W
Dimensions	430 (W) × 500 (D) × 138 (H) mm 16.9 (W) × 19.6 (H) × 5.4 (D) inch
Weight	Approx. 4.6 kg (10.1 lb)

### 1.4 Operating environment

Temperature	10 to 35° C / 50 to 95° F (with a fluctuation of 10° C / 18° F or less per hour)
Humidity	15 % to 85 % (with a fluctuation of 20 %/h)

**NOTE**

- These specifications are subject to change without notice.



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# Maintenance

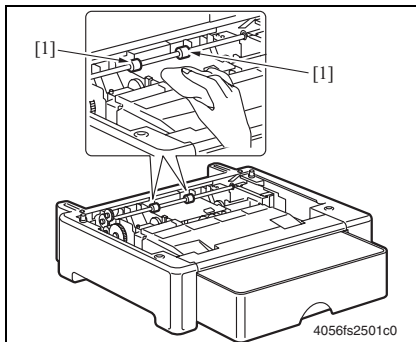
## 2. Periodic check

### 2.1 Maintenance procedure (Periodic parts check)

#### NOTE

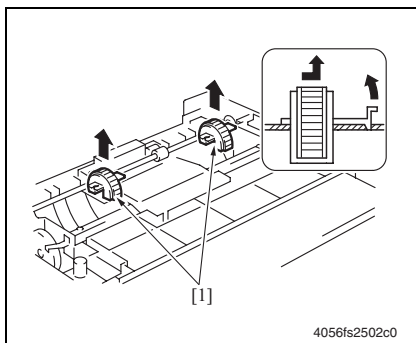
- The alcohol described in the cleaning procedure is isopropyl alcohol.

#### 2.1.1 Pick-up roller



#### A. Cleaning procedure

1. Remove the Lower Feeder Unit from the main unit.
2. Wipe the pick-up roller [1] clean of dirt using a soft cloth dampened with alcohol.



#### B. Removal procedure

1. Remove the Lower Feeder Unit from the main unit.
2. Remove two pick-up rollers [1].

### 3. Other

#### 3.1 Disassembly/adjustment prohibited items

##### A. Black-painted screws

- Do not remove or loosen any of the black-painted screws in the field. Any of such screws that has been removed calls for readjustment at reinstallation.

##### B. Red-painted screws

- Do not remove or loosen any of the red-painted screws in the field. It should also be noted that, when two or more screws are used for a single part, only one representative screw may be marked with the red paint.

##### C. Variable Resistors on Board

###### NOTE

- Do not turn the variable resistors on boards for which no adjusting instructions are given in Adjustment/Setting.

##### D. Removal of PWBs

###### CAUTION

- When removing a circuit board or other electrical component, refer to “SAFETY AND IMPORTANT WARNING ITEMS” and follow the corresponding removal procedures.
- The removal procedures given in the following omit the removal of connectors and screws securing the circuit board support or circuit board.
- Where it is absolutely necessary to touch the ICs and other electrical components on the board, be sure to ground your body.

3.2 Disassembly/Assembly list (Other parts)

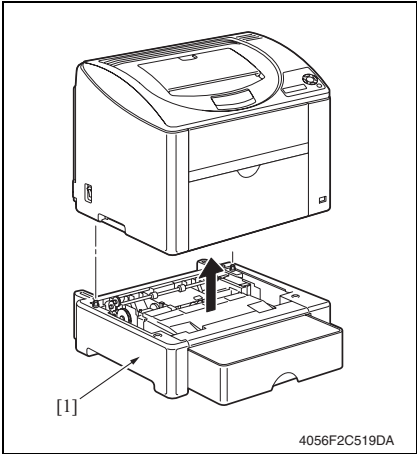
No	Section	Part name	Ref. page
1	-	Lower Feeder Unit	P.5
2	Exterior parts	Tray	P.6
3		Rear cover	P.6
4	Unit	Paper pick-up unit	P.6
5	Board and etc	PF drive board	P.8
6	Others	Paper pick-up solenoid	P.8
7		Tray set detecting switch	P.9

3.3 Disassembly/Assembly procedure

3.3.1 Lower Feeder Unit

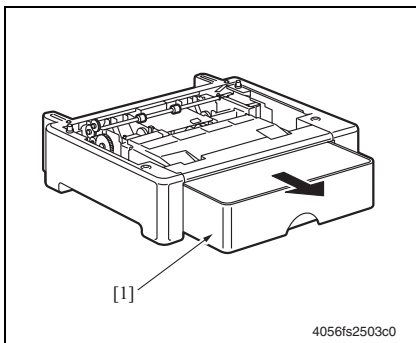
NOTE

- Whenever removing or reinstalling the Lower Feeder Unit, be sure first to unplug the power cord of the printer from the power outlet.



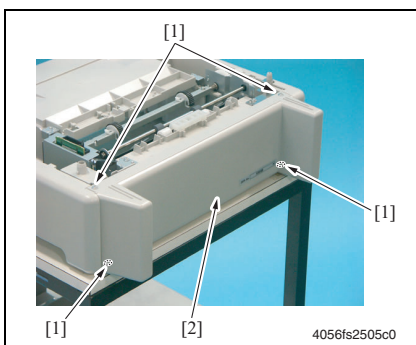
1. Lift the printer main body and then remove the Lower Feeder Unit [1] from the printer.

### 3.3.2 Tray



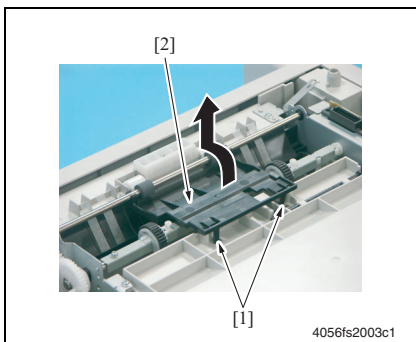
1. Remove the Lower Feeder Unit from the main unit.
2. Slide out the tray [1].

### 3.3.3 Rear cover

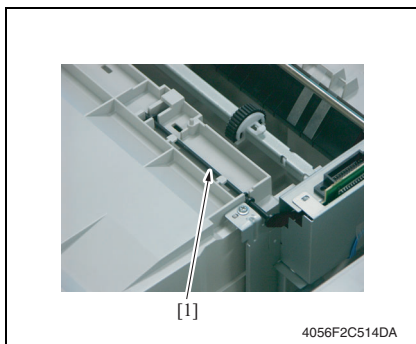


1. Slide out the tray.  
[See P.6](#)
2. Remove four screws [1], and remove the rear cover [2].

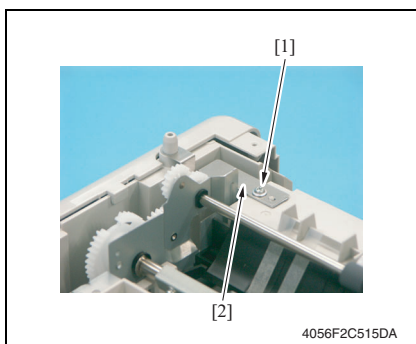
### 3.3.4 Paper pick-up unit



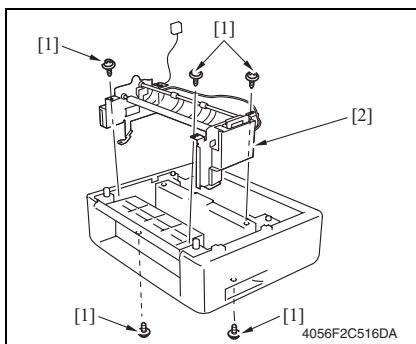
1. Remove the rear cover.  
[See P.6](#)
2. Unlock two tabs [1] and remove the cover [2].



3. Remove the actuator [1].

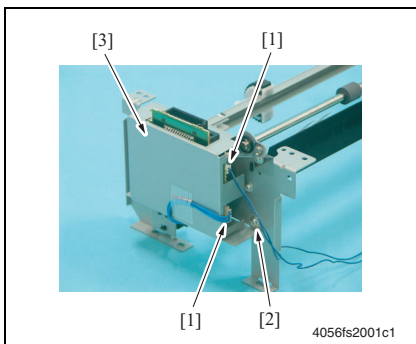


4. Remove one screw [1] and the metal plate [2].

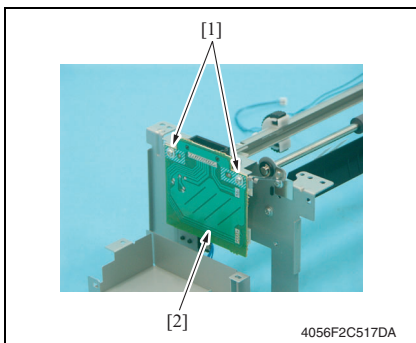


5. Remove five screws [1] and the paper pick-up unit [2].

### 3.3.5 PF drive board (PFDB)

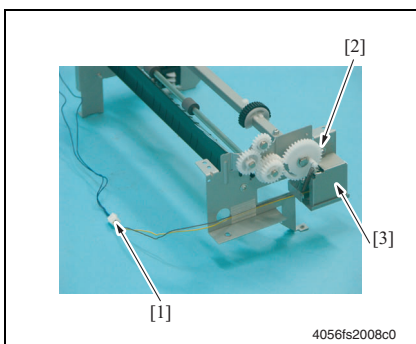


1. Remove the paper pick-up unit.  
[See P.6](#)
2. Disconnect two connectors [1] from the PF drive board.
3. Remove one screw [2] and the PWB protective cover [3].

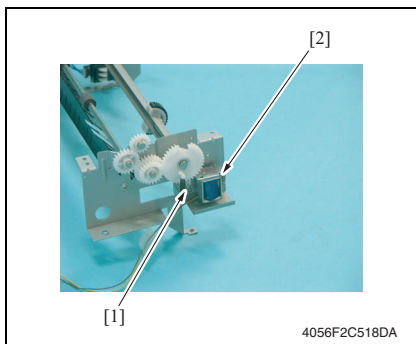


4. Remove two screws [1] and the PF drive board [2].

### 3.3.6 Paper pick-up solenoid (SD1)

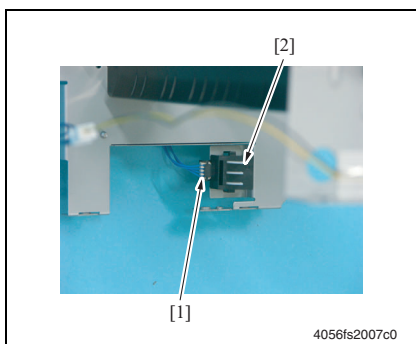


1. Remove the paper pick-up unit.  
[See P.6](#)
2. Disconnect one connector [1].
3. Remove one screw [2] and the protective cover [3].



4. Remove one screw [1] and the paper pick-up solenoid [2].

### 3.3.7 Tray set detecting switch (SW1)



1. Remove the paper pick-up unit.  
[See P.6](#)
2. Unlock two tabs [1], disconnect one connector [2] and remove the tray set detecting switch [3].



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# Troubleshooting

## 4. Jam display

### 4.1 Misfeed display

- When a paper misfeed occurs a message is displayed on the control panel.

MEDIA JAM  
TRAY 2

4537fs4503e0

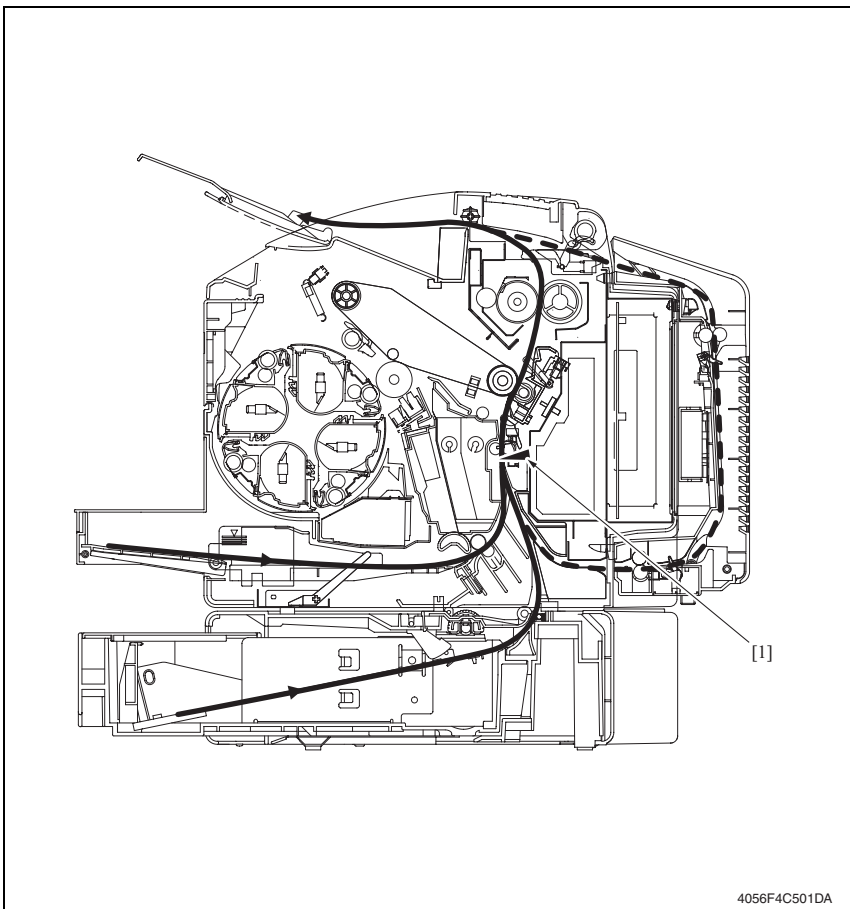
Display	Misfeed location	Misfeed clearing location	Ref. page
MEDIA JAM TRAY 2	Tray 2 paper feed section	Tray 2	<a href="#">P.13</a>

### 4.2 Misfeed display resetting procedure

- Open the relevant door, clear the sheet of misfed paper, and close the door.

## 4.3 Sensor layout

### 4.3.1 magicolor 2530 DL/magicolor 2550/magicolor 2550DN (mounted with the Lower Feeder Unit and Duplex Option)



[1] Registration sensor

PS1

4.4 Solution

4.4.1 Initial check items

- When a paper misfeed occurs, first check the following initial check items.

Check Item	Action
Does the paper meet product specifications?	Change the paper.
Is paper curled, wavy, or damp.	Change the paper. Instruct the user in correct paper storage.
Is a foreign object present along the paper path, or is the paper path deformed or worn?	Clean or change the paper path.
Are the rolls/rollers dirty, deformed, or worn?	Clean or change the defective roll/roller.
Are the edge guide and trailing edge stop at the correct position to accommodate the paper?	Set as necessary.
Are the actuators found operational when checked for correct operation?	Correct or change the defective actuator.

4.4.2 Misfeed at Tray 2 paper feed section

A. Detection timing

Type	Description
Detection of mis-feed at tray 2 paper feed section	The leading edge of the paper does not block the registration sensor (PS1) even after the lapse of a predetermined period of time after the paper pick-up solenoid (SD1) has been energized.

B. Action

Relevant electrical parts	
Registration sensor (PS1) Paper pick-up solenoid (SD1)	Printer control board (PRCB)

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the initial check items.	-	-
2	Check the PRCB connector for proper connection and correct as necessary.	-	-
3	Check the PS1 sensor.	2500W: PRCB PJ12PRCB-3 (ON) 2530 DL: PRCB PJ12PRCB-3 (ON) 2550/2550DN: PRCB PJ12PRCB-3 (ON)	2500W: C-10 2530 DL: C-9 2550/2550DN: C-9
4	Check SD1 for correct operation.	PFDB PJ22PFDB-2 (REM)	F-4
5	Change PRCB.	-	-

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KONICA MINOLTA

**SERVICE MANUAL**

FIELD SERVICE

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# Duplex Option

# Revision history

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.

2006/08	1.0	—	Issue of the first edition
Date	Service manual Ver.	Revision mark	Descriptions of revision

# CONTENTS

## Duplex Option

### General

1. Product specifications ..... 1

### Maintenance

2. Periodic check ..... 3

2.1 Maintenance procedure (Periodic parts check) ..... 3

2.1.1 Transport roller ..... 3

3. Other ..... 4

3.1 Disassembly/adjustment prohibited items ..... 4

3.2 Disassembly/Assembly list (Other parts) ..... 5

3.3 Disassembly/Assembly procedure ..... 5

3.3.1 Duplex Option ..... 5

3.3.2 Right cover ..... 7

3.3.3 AD drive board (ADDB) ..... 8

3.3.4 Cooling fan motor (FM1) ..... 9

3.3.5 Transport motor (M1) ..... 12

3.3.6 Reverse motor (M2) ..... 12

3.3.7 Registration solenoid (SD1) ..... 13

### Troubleshooting

4. Jam display ..... 15

4.1 List of display messages ..... 15

4.2 Misfeed display resetting procedure ..... 15

4.3 Sensor layout ..... 16

4.3.1 magicolor 2530 DL/magicolor 2550/magicolor 2550DN  
(mounted with the Lower Feeder Unit and Duplex Option) ..... 16

4.4 Solution ..... 17

4.4.1 Initial check items ..... 17

4.4.2 Misfeed at Duplex Option reverse drive/storage section ..... 17

4.4.3 Misfeed at Duplex Option paper feed section ..... 18

5. Error codes ..... 19

5.1 Trouble code ..... 19

5.1.1 Indication of the error indicator (magicolor 2500W) ..... 19

5.1.2 Indication of the LCD display (magicolor 2530 DL) ..... 20

Duplex Option

General

Maintenance

Troubleshooting



5.1.3	Indication of the LCD display (magicolor 2550/magicolor 2550DN) .....	20
5.1.4	Trouble code list.....	20
5.2	Solution .....	21
5.2.1	0F: Cooling fan motor malfunction .....	21
6.	Miscellaneous malfunctions .....	22
6.1	List of miscellaneous malfunctions .....	22
6.2	ILLEGAL ERROR DUPLEX.....	22

# General

## 1. Product specifications

### A. Type

Name	Duplex Option
Type	Switchback and circulating duplex unit
Installation	Mounted on the right side door of main unit
Reversing system	Exit roller switchback
Conveyance system	Rubber roller + driven rolls
Document alignment	Center

### B. Paper type

Paper size	A4S/LetterS
Paper type	<ul style="list-style-type: none"> <li>• Plain paper: 60 to 90 g/m<sup>2</sup> (16 to 24 lb)</li> <li>• Recycled paper: 60 to 90 g/m<sup>2</sup> (16 to 24 lb)</li> </ul>

### C. Machine specifications

Power requirements	DC 24 V $\pm$ 10 % (supplied from the main unit)
	DC 5 V $\pm$ 5 % (supplied from the main unit)
Max. power consumption	42 W
Dimensions	370 (W) $\times$ 153 (D) $\times$ 327 (H) mm 14.6 (W) $\times$ 6.0 (D) $\times$ 12.9 (H) inch
Weight	Approx. 2.3 kg (5.1 lb)

### D. Operating environment

Temperature	10 to 35° C / 50 to 95° F (with a fluctuation of 10° C / 18° F or less per hour)
Humidity	15 % to 85 % (with a fluctuation of 20 %/h)

### NOTE

- These specifications are subject to change without notice.

Duplex Option

General

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# Maintenance

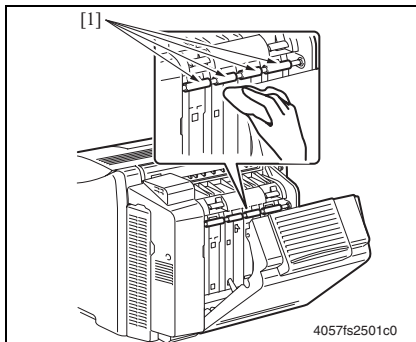
## 2. Periodic check

### 2.1 Maintenance procedure (Periodic parts check)

#### NOTE

- The alcohol described in the cleaning procedure is isopropyl alcohol.

#### 2.1.1 Transport roller



#### A. Cleaning procedure

1. Open the duplex door.
2. Using a soft cloth dampened with alcohol, wipe the transport roller [1] clean of dirt.

### 3. Other

#### 3.1 Disassembly/adjustment prohibited items

##### A. Black-painted screws

- Do not remove or loosen any of the black-painted screws in the field. Any of such screws that has been removed calls for readjustment at reinstallation.

##### B. Red-painted screws

- Do not remove or loosen any of the red-painted screws in the field. It should also be noted that, when two or more screws are used for a single part, only one representative screw may be marked with the red paint.

##### C. Variable Resistors on Board

##### NOTE

- Do not turn the variable resistors on boards for which no adjusting instructions are given in Adjustment/Setting.

##### D. Removal of PWBs



##### CAUTION

- When removing a circuit board or other electrical component, refer to “SAFETY AND IMPORTANT WARNING ITEMS” and follow the corresponding removal procedures.
- The removal procedures given in the following omit the removal of connectors and screws securing the circuit board support or circuit board.
- Where it is absolutely necessary to touch the ICs and other electrical components on the board, be sure to ground your body.

## 3.2 Disassembly/Assembly list (Other parts)

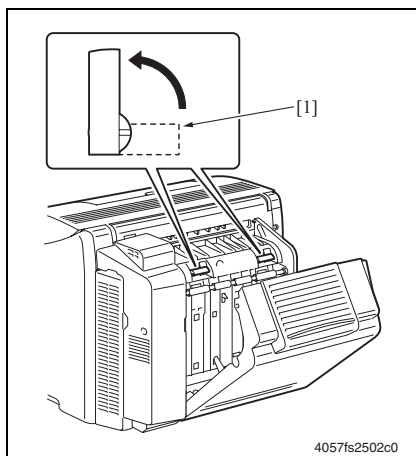
No	Section	Part name	Ref. page
1	-	Duplex Option	P.5
2	Exterior parts	Right cover	P.7
3	Board and etc.	AD drive board	P.8
4	Others	Cooling fan motor	P.9
5		Transport motor	P.12
6		Reverse motor	P.12
7		Registration solenoid	P.13

## 3.3 Disassembly/Assembly procedure

### 3.3.1 Duplex Option

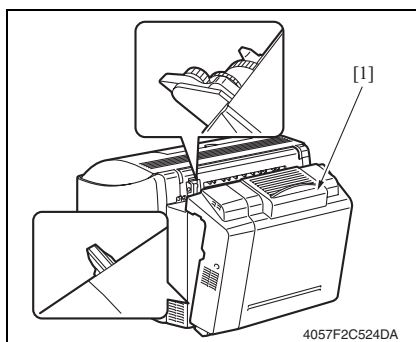
#### NOTE

- Whenever removing or reinstalling the Duplex Option, be sure first to unplug the power cord of the printer from the power outlet.

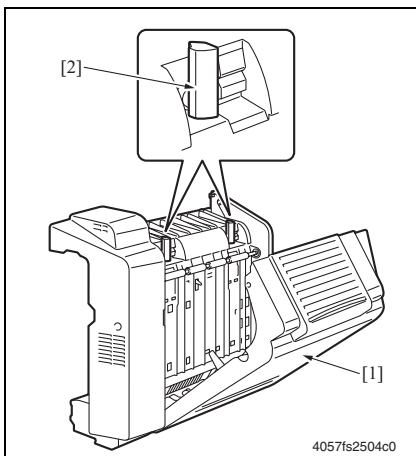


#### A. Removal procedure

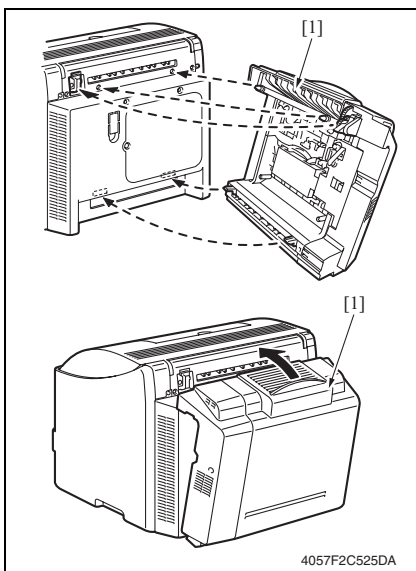
1. Open the Duplex Option door.
2. Turn the two locking knobs [1] to unlock the Duplex Option.



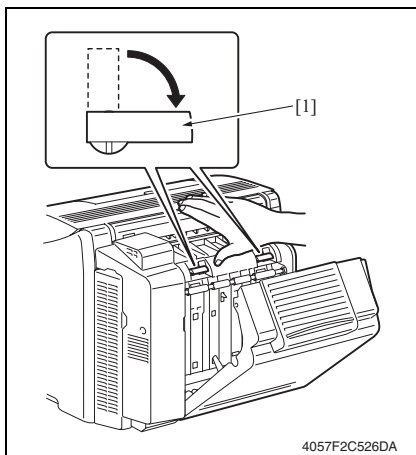
3. Remove the Duplex Option [1].

**B. Reinstall procedure**

1. Open the Duplex Option door [1] and turn the two locking knobs [2] to unlock the Duplex Option.



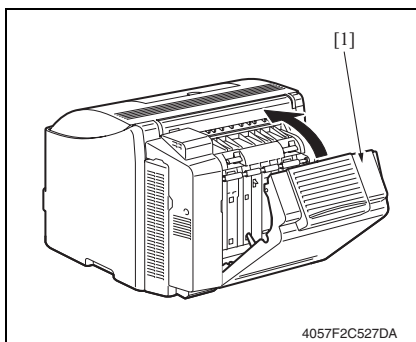
2. Mount the Duplex Option [1] onto the printer main body.



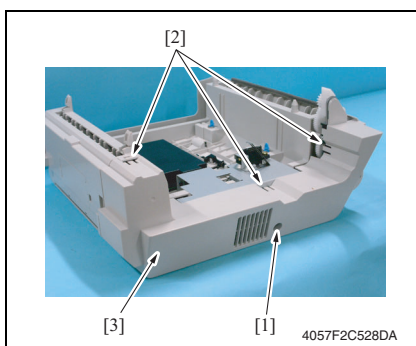
3. Turn the two locking knobs [1] to lock the Duplex Option into position.

**NOTE**

- When locking the Duplex Option into position, be sure to hold the unit with a hand and, at the same time, press it up against the printer main body.

**NOTE**

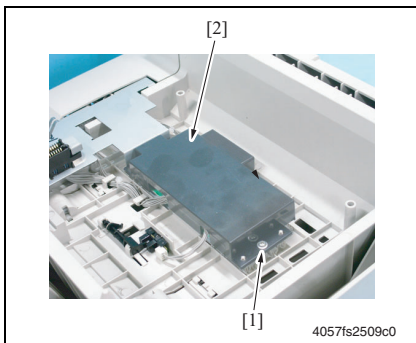
- After the Duplex Option has been locked into position, check that the two locking knobs are in the correct locked position.
4. Close the Duplex Option door [1].

**3.3.2 Right cover**

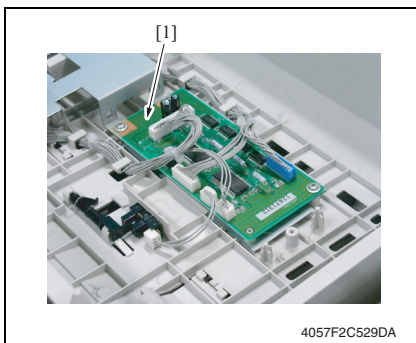
1. Remove one screw [1], unlock three tabs [2] and remove the right cover [3].



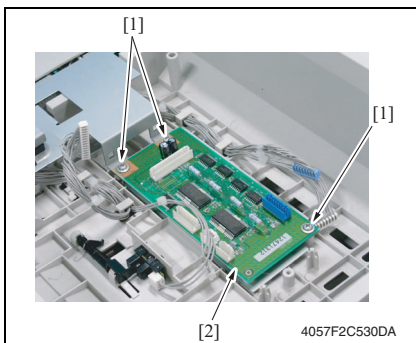
### 3.3.3 AD drive board (ADDB)



1. Remove the right cover.  
[See P.7](#)
2. Remove one screw [1] and the AD drive board cover [2].

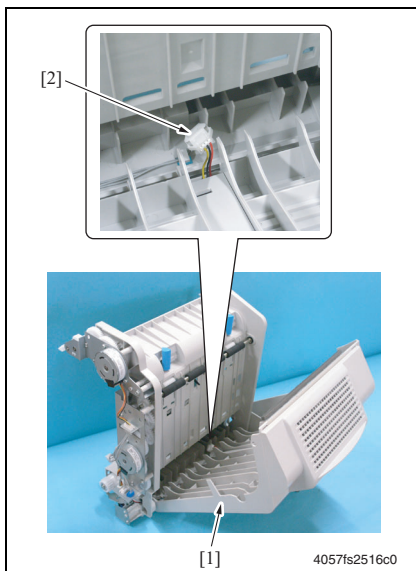


3. Disconnect all connectors from the AD drive board [1].



4. Remove three screws [1] and the AD drive board [2].

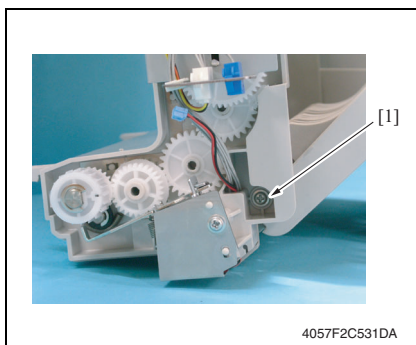
### 3.3.4 Cooling fan motor (FM1)



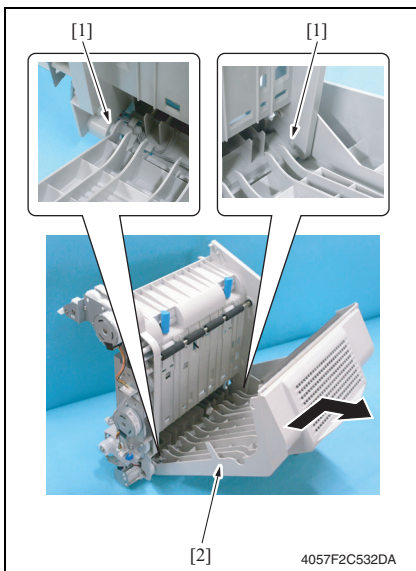
1. Remove the right cover.

See P.7

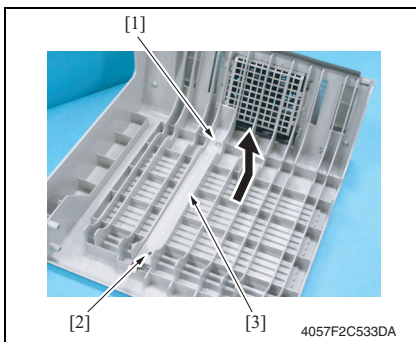
2. Open the Duplex Option door [1] and disconnect the connector [2].



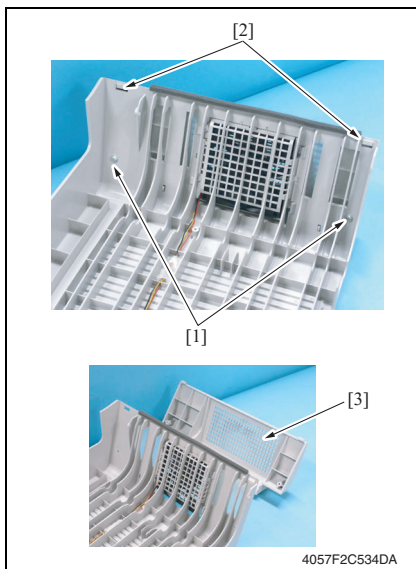
3. Remove one screw [1].



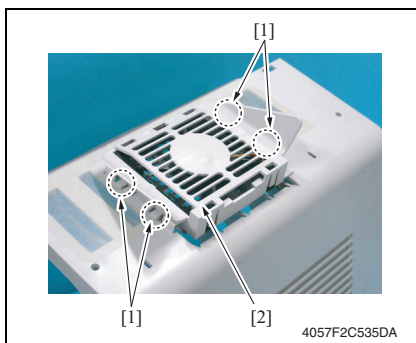
4. Unhook the two dowel pins [1] and remove the Duplex Option door [2].



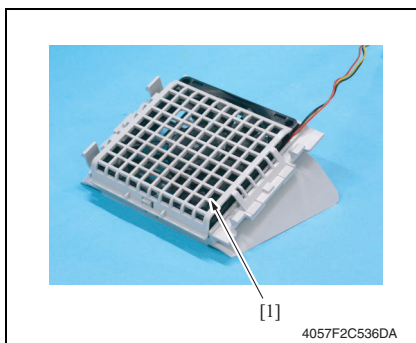
5. Remove one screw [1], unlock one tab [2] and remove the harness cover [3].



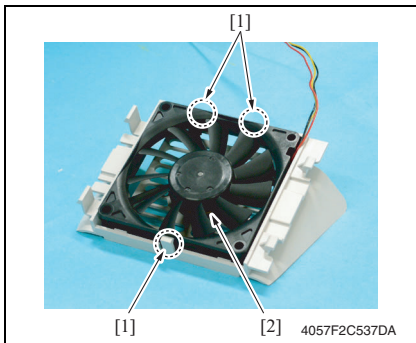
6. Remove two screws [1], unlock two tabs [2] and remove the Duplex Option door upper cover [3].



7. Unlock four tabs [1] and remove the cooling fan motor assy [2].

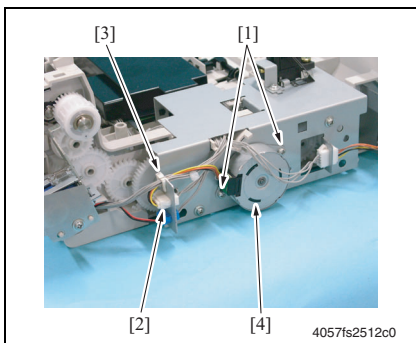


8. Remove the cooling fan motor cover [1].



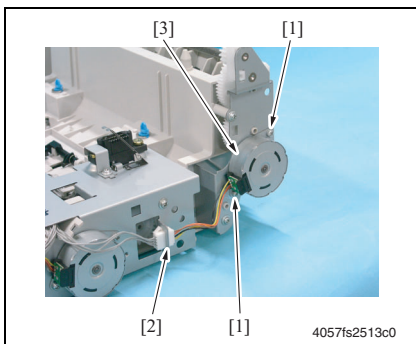
9. Unlock three tabs [1] and remove the cooling fan motor [2].

### 3.3.5 Transport motor (M1)



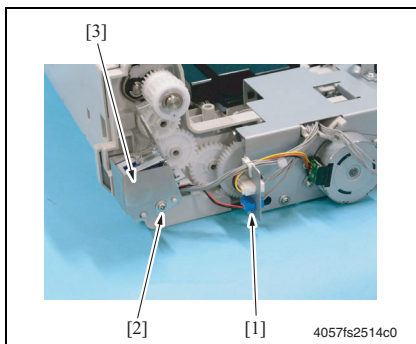
1. Remove the right cover.  
[See P.7](#)
2. Remove two screws [1] and disconnect the connector [2].
3. Remove the harness from the harness holder [3] and then remove the transport motor [4].

### 3.3.6 Reverse motor (M2)

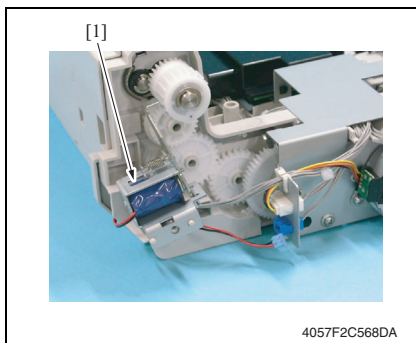


1. Remove the right cover.  
[See P.7](#)
2. Remove two screws [1], disconnect the connector [2], and remove the reverse motor [3].

### 3.3.7 Registration solenoid (SD1)



1. Remove the right cover.  
[See P.7](#)
2. Disconnect the connector [1].
3. Remove one screw [2] and the protective cover [3].



4. Remove the registration solenoid [1].

Duplex Option

Maintenance

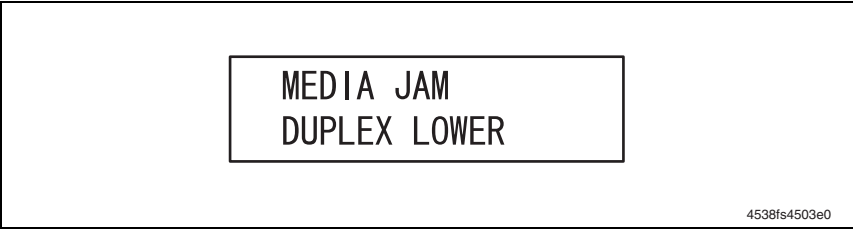
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# Troubleshooting

## 4. Jam display

### 4.1 List of display messages

- When a paper misfeed occurs a message is displayed on the control panel.



Display	Misfeed location	Misfeed clearing location	Ref. page
MEDIA JAM DUPLEX LOWER	Duplex Option reverse drive/storage section	Duplex Option door	P.17
MEDIA JAM DUPLEX UPPER	Duplex Option paper feed section		P.18

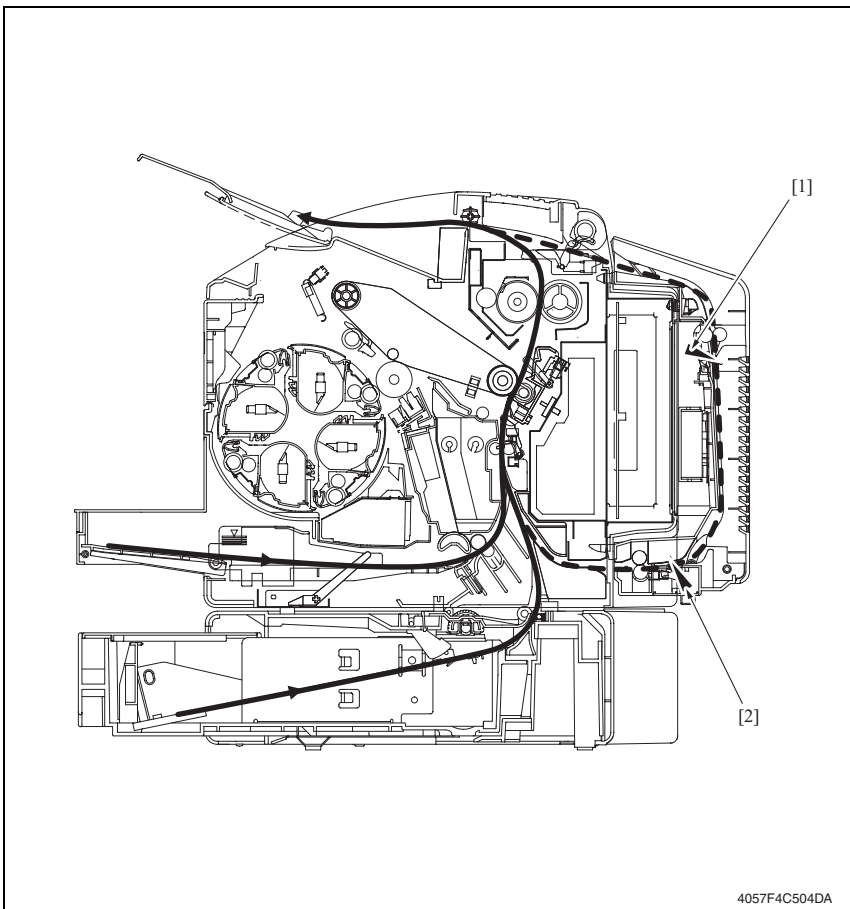
### 4.2 Misfeed display resetting procedure

- Open the relevant door, clear the sheet of misfed paper, and close the door.



## 4.3 Sensor layout

### 4.3.1 magicolor 2530 DL/magicolor 2550/magicolor 2550DN (mounted with the Lower Feeder Unit and Duplex Option)



- |                       |     |
|-----------------------|-----|
| [1] Transport sensor  | PS3 |
| [2] Paper loop sensor | PS1 |

4.4 Solution

4.4.1 Initial check items

- When a paper misfeed occurs, first check the following initial check items.

Check Item	Action
Does the paper meet product specifications?	Change the paper.
Is paper curled, wavy, or damp.	Change the paper. Instruct the user in correct paper storage.
Is a foreign object present along the paper path, or is the paper path deformed or worn?	Clean or change the paper path.
Are the rolls/rollers dirty, deformed, or worn?	Clean or change the defective roll/roller.
Are the edge guide and trailing edge stop at the correct position to accommodate the paper?	Set as necessary.
Are the actuators found operational when checked for correct operation?	Correct or change the defective actuator.

4.4.2 Misfeed at Duplex Option reverse drive/storage section

A. Detection timing

Type	Description
Detection of misfeed at Duplex Option reverse drive/storage section	The transport sensor (PS3) is not unblocked even after the lapse of a predetermined period of time after the reverse motor (M2) has been energized for reverse drive.

B. Action

Relevant electrical parts	
Transport sensor (PS3) Transport motor (M1) Reverse motor (M2)	AD drive board (ADDB) Printer control board (PRCB)

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Initial check items.	-	-
2	Check the PS3 sensor.	ADDB PJ5ADDB-3 (ON)	B-4
3	Check M1 for correct operation.	ADDB PJ2ADDB-1~4 (pulse)	B-4
4	Check M2 for correct operation.	ADDB PJ2ADDB-5~8 (pulse)	B-5
5	Change ADDB.	-	-
6	Change PRCB.	-	-

4.4.3 Misfeed at Duplex Option paper feed section

A. Detection timing

Type	Description
Detection of misfeed at Duplex Option paper feed section	The paper loop sensor (PS1) is not unblocked even after the lapse of a predetermined period of time after a duplex paper feed sequence has been started.
	The paper loop sensor (PS1) is not blocked even after the lapse of a predetermined period of time after a duplex paper feed sequence has been started.
	The transport sensor (PS3) is not blocked even after the lapse of a predetermined period of time after a duplex paper feed sequence has been started.

B. Action

Relevant electrical parts	
Paper loop sensor (PS1) Transport sensor (PS3) Transport motor (M1)	AD drive board (ADDB) Printer control board (PRCB)

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Initial check items.	-	-
2	Check the PS1 sensor.	ADDB PJ3ADDB-3 (ON)	G-4
3	Check the PS3 sensor.	ADDB PJ5ADDB-3 (ON)	B-4
4	Check M1 for correct operation.	ADDB PJ2ADDB-1~4 (pulse)	B-4
5	Change ADDB.	-	-
6	Change PRCB.	-	-

## 5. Error codes

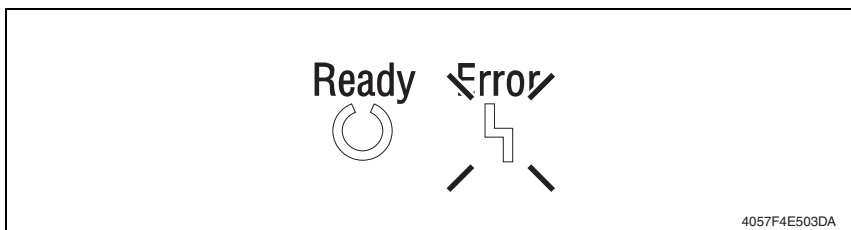
### 5.1 Trouble code

- When a malfunction occurs, the printer shows the corresponding trouble status by means of the Error indicator on the control panel or LCD display.

#### 5.1.1 Indication of the error indicator (magicolor 2500W)

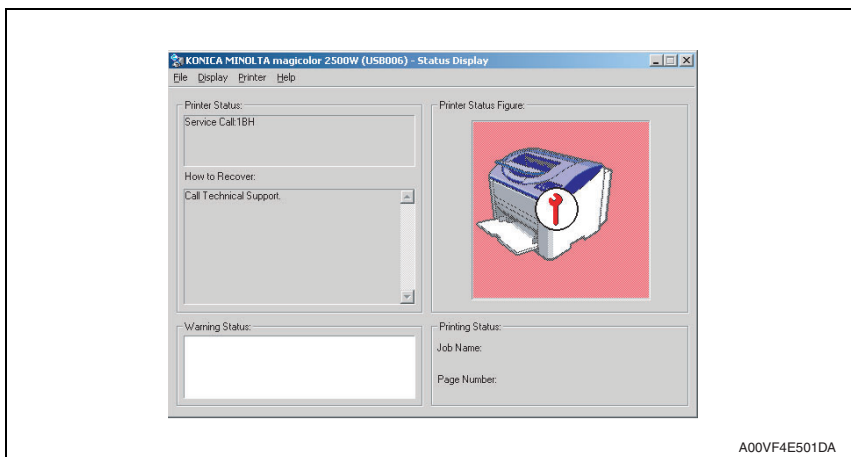
- The CPU circuit of the printer performs a self-diagnostics procedure. If a faulty condition is encountered, the error indicator blinks twice a second.

See P.72



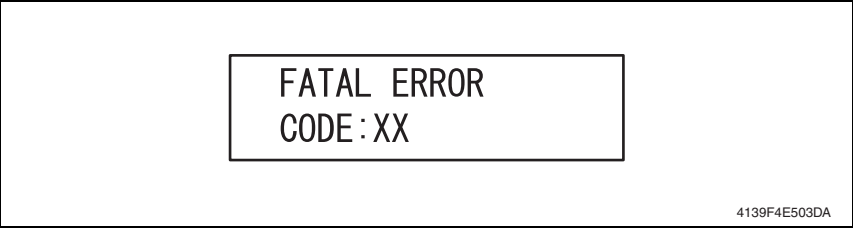
#### A. Check the trouble code

- If trouble status is displayed by the error indicator, the corresponding trouble code can be checked with the Status Display of the PC connected to the printer.



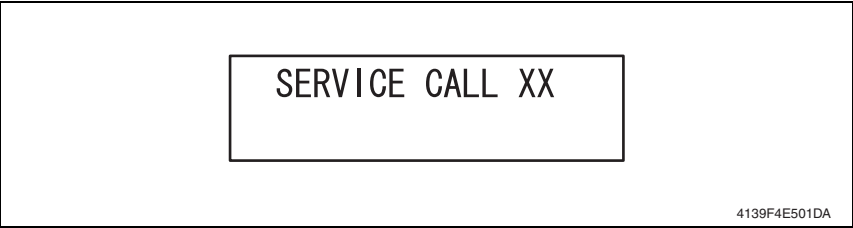
5.1.2 Indication of the LCD display (magicolor 2530 DL)

- The printer's CPU performs a self-diagnostics function that, on detecting a malfunction, gives the corresponding trouble code and maintenance call mark on the control panel.



5.1.3 Indication of the LCD display (magicolor 2550/magicolor 2550DN)

- The printer's CPU performs a self-diagnostics function that, on detecting a malfunction, gives the corresponding trouble code and maintenance call mark on the control panel.



5.1.4 Trouble code list

Code	Item	Detection Timing
0F	Cooling fan motor malfunction	<ul style="list-style-type: none"><li>• The fan motor lock signal remains HIGH for a predetermined consecutive period of time while the cooling fan motor remains energized.</li></ul>

5.2 Solution

5.2.1 0F: Cooling fan motor malfunction

Relevant electrical parts			
Cooling fan motor (FM1)		AD drive board (ADDB) Printer control board (PRCB)	

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical component)
1	Check the FM1 connector for proper connection and correct as necessary.	-	-
2	Check the fan for possible overload and correct as necessary.	-	-
3	Check the ADDB connector for proper connection and correct as necessary.	-	-
4	FM1 operation check.	-	-
5	Change ADDB.	-	-
6	Change PRCB.	-	-

6. Miscellaneous malfunctions

6.1 List of miscellaneous malfunctions

Message	Description
ILLEGAL ERROR DUPLEX	<ul style="list-style-type: none"><li>• The Duplex Option is not mounted.</li><li>• A 2-sided print cycle is run using the type and size of paper that are not good for 2-sided printing.</li></ul>

6.2 ILLEGAL ERROR DUPLEX

Relevant electrical parts	
AD drive board (ADDB)	Printer control board (PRCB) Image processing board (IPB)

Step	Action	WIRING DIAGRAM	
		Control signal	Location (electrical component)
1	Check the printer driver settings.	-	-
2	Check the ADDB connector for proper connection and correct as necessary.	-	-
3	Check the PRCB connector for proper connection and correct as necessary.	-	-
4	Check the IPB connector for proper connection and correct as necessary.	-	-
5	Change ADDB.	-	-
6	Change IPB.	-	-
7	Change PRCB.	-	-



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