

SERVICE MANUAL

FIELD SERVICE

magicolor[®] 2500W magicolor[®] 2530 DL magicolor[®] 2550 magicolor[®] 2550DN

2006.08 KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. Ver. 1.0

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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 " \triangle DANGER", " \triangle WARNING", and " \triangle 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:



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.

F	Prohibited Actions		
•	Using any cables or power cord not specified by KMBT.	\bigcirc	
•	Using any fuse or thermostat not specified by KMBT. Safety will not be assured, leading to a risk of fire and injury.	\bigcirc	
•	Disabling fuse functions or bridging fuse terminals with wire, metal clips, solder or similar object.	\bigcirc	Ø,
•	Disabling relay functions (such as wedging paper between relay contacts)	\bigcirc	
•	Disabling safety functions (interlocks, safety circuits, etc.) Safety will not be assured, leading to a risk of fire and injury.	\bigcirc	(Jacob) Maria
•	Making any modification to the product unless instructed by KMBT	\bigcirc	
•	Using parts not specified by KMBT	\bigcirc	

[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.



[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



Power Plug and Cord		
 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. 	0	
 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. 	\bigcirc	
 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. 	0	0
 Do not bundle or tie the power cord. Overheating may occur there, leading to a risk of fire. 	\bigcirc	
 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. 	0	
 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. 	0	

Wiring

• 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

• 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

• 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

- 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

 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

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

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.

S	Safety Checkpoints		
•	Check the exterior and frame for edges, burrs, and other damage. The user or CE may be injured.	0	
•	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.	\bigcirc	Ø,
•	Check wiring for squeezing and any other damage. Current can leak, leading to a risk of electric shock or fire.	0	
•	Carefully remove all toner remnants and dust from electri- cal parts and electrode units such as a charging corona unit. Current can leak, leading to a risk of product trouble or fire.	0	
•	Check high-voltage cables and sheaths for any damage. Current can leak, leading to a risk of electric shock or fire.		

Safety Checkpoints 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 evesight. 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 eve. leading to a risk of loss of evesight. 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

 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

 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

• 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

$\underline{\wedge}\,\text{CAUTION}$

- 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 μW	
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 lasersäteilylle.

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.

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

VARO!

 Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättomälle lasersäteilylle. Älä katso säteeseen.

VARNING!

 Osynlig laserstråining när denna del är öppnad och spärren är urkopplad. Betrakta ej stråien.

Norway

ADVERSEL

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

halvle	eder laser
Maksimal effekt till laserdiode	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.





⚠̀ 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

- 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 section="" service=""></field>	
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 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 combin	ation 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
A1	Long edge feeding	A4
~~	Short edge feeding	A4S
A3	Short edge feeding	A3



SERVICE MANUAL

FIELD SERVICE

magicolor[®] 2500W magicolor[®] 2530 DL magicolor[®] 2550 magicolor[®] 2550DN Main Unit

2006.08 KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. Ver. 1.0

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

A number within **A** 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

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General

1. System configuration

A. magicolor 2500W



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



[3] Lower Feeder Unit

*: Option only of magicolor 2530 DL/magicolor 2550

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

General

2. Product specifications

A. Type

pe 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 cond	uctor)		
Photoconductor cleaning	Blade cleaning system			
Peoplution	magicolor 2500W/ magicolor 2530 DL	2400 dpi x 600 dpi, 1200 dpi x 600 dpi or 600 dpi x 600 dpi		
Resolution	magicolor 2550/ magicolor 2550DN	600 dpi x 600 dpi x 4 bit or 600 dpi x 600 dpi x 1 bit		
	magicolor 2500W	One-way system (Tray 1: 200 sheets)		
Media feeding system	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	ransfer 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)				

Warm-up time	magicolor 2500W/	110 V/120 V area	Average 45 seconds			
(at ambient tempera-	magicolor 2530 DL	220 V to 240 V area	Average 49 seconds			
and rated source	magicolor 2550/	110 V/120 V area	Average 52 seconds			
voltage)	magicolor 2550DN	220 V to 240 V area	Average 55 seconds			
	Plain paper	Plain paper 126.78 mm/second				
Process speed	Thick stock	63.39 mm/second				
	OHP film	42.26 mm/second				
	magicalar 2500W	Full color	1-sided: 23 seconds			
	magicolor 2500W	Monochrome	1-sided: 14 seconds			
	magicalor 2530 DI	Full color	1-sided: 21 seconds 2-sided: 33 seconds			
First-Page-Out Time (Plain paper)		Monochrome	1-sided: 12 seconds 2-sided: 24 seconds			
	magicolor 2550/	Full color	1-sided: 22 seconds 2-sided: 35 seconds			
	magicolor 2550DN	Monochrome	1-sided: 13 seconds 2-sided: 26 seconds			
	magicolor 2500W	Full color	1-sided: 5 pages/minute			
		Monochrome	1-sided: 20 pages/minute			
Print speed (Plain paper)	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	 Plain Paper (60 to 90 Transparencies Thick stock (91 to 163 Postcards Envelopes Letterhead Label stock Glossy stock 	g/m² / 16 to 24 lb) 3 g/m² / 25 to 40 lb)				
	Plain paper and letterhe	ad	:200 sheets			
Tray capacities	Transparencies, thick st and glossy stock Envelopes	ock, postcards, labels st	ock, :50 sheets :10 sheets			
Hard Disk	Option (magicolor 2550, 40 GB	magicolor 2550DN only)			
Lower Feeder Unit:	Only plain paper and re (16 to 24 lb) can be loa	ecycled paper weighir ded.	ng 60 to 90 g/m ²			
Duplex Option:	Only plain paper and re (16 to 24 lb) can be fed	ecycled paper weighir I through the unit.	ng 60 to 90 g/m ²			
For details, see the s	service manual for each	n option.				

B. Functions

C. Maintenance

Machina Durahility	200,000 prints or E vegere, which ever comes first
Machine Durability	1200.000 prints of 5 years, whichever comes first
	······································

D. Machine specifications

Power requirements	voltage:	AC 110 to 127 V AC 220 to 240 V		
r ower requirements	Frequency:	50/60 Hz ± 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 standt During printin	by :35 dB (A) or less g :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	Orignal ASIC
Standard memory	32 MB
Interface	USB 2.0 compliant
Printer languege	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 languege	PageScope Raster Languege (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.



Blank Page

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
4		Toner cartridge (Y/M/C) ⁻¹	1,500		٠	
1		Toner cartridge (Y/M/C/K) ^{'2}	4,500		•	
		Processing section Drum cartridge	Monochrome 45,000 (MP ⁺³)			
0	Processing section		Monochrome 10,000 (1P/J ^{·4})			
2			Full Color 11,250 (MP [·] 3)		•	
			Full Color 7,500 (1P/J ⁻⁴)			
3		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

3.1.2 Parts to be replaced by service engineers (FRUs)

No	Classification	Part name	Number of prints	Clean	Replace	Description
	Image transfer section	nage Transfer belt unit ansfer ection	Monochrome 135,000 (MP ^{*1})			
			Monochrome 45,000 (1P/J [•] 2)	•		
1			Full color 33,700 (MP ^{*1})		●	
			Full color 22,500 (1P/J ⁻²)			
				Standard mode ⁻³ 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) *1	1	1,500		P13	
		High-Capacity Toner cartridge (Y/M/C/K) ^{•2}	1	4,500		F. 13	
2			1	Monochrome 45,000 (MP 3)			
	Processing section	Drum cartridge		Monochrome 10,000 (1P/J ⁻ 4)		P.17	
				Full Color 11,250 (MP [·] ³)			
				Full Color 7,500 (1P/J ⁻ 4)			
3	Image transfer section	Transfer belt unit	1	Monochrome 135,000 (MP 3)			
				Monochrome 45,000 (1P/J ⁻⁴)			
				Full Color 33,700 (MP [•] 3)		P.19	
				Full Color 22,500 (1P/J ⁻ 4)			
				Standard Mode ⁺⁵ 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

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	The number of printed pages compared with the	1,200 prints	1,500 prints *1
C,M,Y,K *	dot counter value, whichever reaches the life specifications value, is detected.	3,600 prints	4,500 prints ^{*2}

*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.



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[1]

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Maintenance



- 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



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





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.

e

A. Removal procedure (1) magicolor 2500W

- 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.
- Open the front cover [1] and make sure that the specific toner cartridge to be replaced is in the front.
- 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
- Check the color of the toner cartridge to be replaced on the control panel.
- 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.
- Open the front cover [1] and make sure that the specific toner cartridge to be replaced is in the front.
- 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

- Check the color of the toner cartridge to be replaced on the control panel.
- 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.
- Open the front cover [1] and make sure that the specific toner cartridge to be replaced is in the front.

magicolor 2500W magicolor 2530 DL magicolor 2550/2550DN



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

3. Periodic check

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.

magicolor 2500W magicolor 2530 DL magicolor 2550/2550DN

3.4.4 Drum cartridge





A. Replacement procedure

- 1. Open the top cover.
- 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.
- 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.

- 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

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





 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.

Maintenance

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.





- 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

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

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



- З. 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.)

🕰 Command Prompt	
Microsoft Windows 2000 [Version 5.00.2195] (C) Copyright 1985-2000 Microsoft Corp.	
C:\>flashupdate -r 150.17.87.24 vxworks.z	
	_
	4138fs2539

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 : I	P address of the machine

: Firmware data file name

Command Prompt

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

0 - 40	-
agicolo agicolo color 2	Microsoft Windows 2000 [Version 5.00.2195] (C) Copyright 1985-2000 Microsoft Corp.
ma magic	C:\>flashupdate -r 150.17.87.24 vxworks.z flashupdate v0.7
2	(c) 2001, 2002 Minolta Systems Laboratory, California, USA StartwSA OK
	id received (002)
	id received (00.30)
	sending raw flash image
	aone receivea
	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
e	erase progress 66
ano	erase progress 73
en	
aint	nnoanam nnoanace 86
Ma	program progress 88
	program progress 100

flashupdate v0.7	
(c) 2001, 2002 Minolta Systems Laboratory, San Jose,	
California, USA	
na receivea (Juliau)	
sending raw tlash image	
erase progress o	
erase progress o	
erase progress 13	
erase progress 20	
erase progress 20	
crase progress 46	
crase progress 40	
erase progress 60	
erase progress 66	
erase progress 73	
program programs 96	
program progress 93	
program progress 100	
done received	
flash undate done	
C:\>	
413	3fs2540e0

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

- 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.
- Holding down the Menu Select key and ▲ key on the control panel at the same time, turn ON the printer's power switch.
- 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.
- Type "copy /b XXXXX.sys lpt1:" and then press the Enter key (XXXXXX is the firmware data file name).



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.

 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.
- In the Menu, select [PRINT MENU] → [CONFIGURATION] and execute the function. Then, check the IP address [1] of the machine.

See P.105

- Copy the firmware data (XXXXX.ps) and upgrading program to any directory on the PC.
- 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.



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



magicolor 2500W magicolor 2530 DL magicolor 2550/2550DN 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).

<u>c:</u> (Command Prompt _ 🗖	×
		•
200	Type set to I.	
ftp)	> hash	
Hasr ftn)	h mark printing on itp: (2048 bytes/hash mark) . > mut susloadi ne	
200	PORI 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	PORI command successful.	
130 11111		
		-

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] \rightarrow [CONFIGURATION]) and check the firmware version to verify the upgrade.

See P.105

Г

5. Other

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

- 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	y/assembly	/ list ((other part	s)
---	-------------	------------	----------	-------------	----

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

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

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

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

magicolor 2500W magicolor 2530 DL magicolor 2550/2550DN

5.3 Disassembly/assembly procedure

5.3.1 Rear panel



5.3.2 Rear cover





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

NOTE

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

(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].

• 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.

magicolor 2500W magicolor 2530 DL nagicolor 2550/2550D

5.3.4 Right cover



5.3.5 Paper take-up cover



5.3.6 Front cover



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

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

magicolor 2500W nagicolor 2530 DI

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

- For magicolor 2500W
- Remove two screws [1] and disconnect the connector [2] and remove the control panel [3].

magicolor 2500W magicolor 2530 DL magicolor 2550/2550DN



- For magicolor 2530 DL/magicolor 2550/magicolor 2550DN
- 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]. olor 2530 DI

aicolor 2500W
5.3.9 Image processing board (IPB)







- (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].

4. Remove three screws [1].

 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].
- 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].







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

6. Remove three screws [1].

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



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

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

icolor 2500M color 2530 D or 2550/255(

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.





 (2) magicolor 2530 DL/magicolor 2550/magicolor 2550DN
 1. Remove the rear cover.
 See P.31
 2. Remove the right cover.
 See P.33
 3. Remove four screws [1] and remute printer control board protoction

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

· When mounting parameter chip

by "A" in the illustration).

(PJ24), align the notches (indicated

NOTE

NOTE

- Only the magicolor 2550 and magicolor 2550DN requires removing the right cover and printer control board protective shield [2].
- Disconnect all connectors and flat cables from the printer control board [1].







Maintenance



- 5. Remove four screws [1].
- 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. $\ensuremath{\textbf{NOTE}}$

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







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

 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.
- $\underline{\wedge}$ 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].

2550/255

dicolor

- 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

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

(1) magicolor 2500W

- Remove the rear cover.
 See P.31
 Remove the right cover.
- See P.33 *3.* Remove the left cover.
- See P.32
- 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.







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].

- 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.

2550/2550

olor 2530

- 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].

magicolor 2500W magicolor 2530 DL magicolor 2550/2550DN

(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



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

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





7. Remove three screws [1].







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

- Disconnect the connector (CN11) [1] from the image processing board.
 Demonst the wire coddle [0]
- 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.







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

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

magicolor 2550/2550m

magicolor 2500V





- 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]. agicolor 2530 DL color 2550/2550E

magicolor 2500W

magicolor 2500W magicolor 2530 DL magicolor 2550/2550DN

(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].

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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].

- 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. Other

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].





5.3.15 Main motor (M1)



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

Maintenance

5.3.16 Power supply cooling fan motor (FM1)



1. Remove the right cover.

1. Remove the right cover.

2. Disconnect the connector [2], remove four screws [1] and main

See P.33

See P.33

motor [3].

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].







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

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

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

5.3.17 Ventilation fan motor (FM2)





5.3.18 Fusing motor (M4)



1. Remove the right cover.

See P.33

 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]. magicolor 2500W nagicolor 2530 DI vicolor 2550/2550

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)



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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].



5.3.20 Rack motor (M2)



5.3.21 Tray1 paper pick-up solenoid (SD1)



the connector [2], and remove the developing motor [3].

olor 2530 DI 2550/255(

4. Remove two screws [1], disconnect

1. Remove the rack drive assy. See the removal procedure steps 1 to 3 2. Remove two screws [1], disconnect the connector [2], and remove the

1. Remove the high voltage unit. See P.46

of "Developing motor" on p.62.

rack motor [3].

- 2. Remove one screw [1], unlock the tab [2], and remove the wiring saddle [3]. Then, remove the shield [4].
- When reinstalling the shield, make • sure that no part of the harness is wedged in the mechanism.



5.3.22 Registration roller solenoid (SD2)





- Field Service Ver. 1.0 Aug. 2006
- 3. Remove the screw [1] and the tray1 paper pick-up solenoid [2].

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

 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 ± 0.2 mm

5.3.23 Pressure/retraction solenoid/cleaning blade (SD3)



1. Remove the right cover.

See P.33

 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].

nagicolor 2500W nagicolor 2530 DI





5.3.26 Separation pad



- *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].

A. Removal procedure

1. Remove the paper pick-up unit.

See P.58

2. Unlock tabs [1] and remove the separation pad [2].



IDC Sensor (IDC) 5.3.27





- 3. Unhook the spring [1].

Maintenance

olor 2530 DI or 2550/2550 ilcolor 2500W

- 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 pickup clutch. These slots are for adjusting the position of the pickup 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.

 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.

 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
- 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.

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 is 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?

- 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.
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.



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

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).
ON	ON	Canceling a job.
Rapid blinking	ON	Toner cartridge change mode
Panid blinking	OFF	Warming up.
Rapid billiking	OIT	Calibrating.
Plinking	OFF	Processing data.
Dilitking	OIT	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.
		 No media (during printer standby)
OFF	Blinking	 A media jam has occurred.
011		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	•	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.		
Use	•	When an image problem (uneven density) occurs in an environment of low atmo- spheric pressure at high altitudes.		
Setting /procedure	•	The available settin	ng options are as follows.	
		Setting options	Developing bias value	
		Default	No offset	
		-1(Lower)	100 V	
		High Altitude	200 V	
		+1(Higher)	300 V	
	1. 2. 3. 4. 5. 6.	Connect the printe Execute the "High, Click [Show Status Click [High Altitude Click [Show Status Turn the power sw	er to the PC. Altitude_for2500W(E).exe" service support tool. s] to check the current setting. e], [-1], or [+1] to make the appropriate setting. s] again to make sure that the setting has been co vitch OFF and then ON again.	prrectly changed.

magicolor 2500W magicolor 2530 DL agicolor 2550/2550DN

7.2.4 White spots/void areas in high-density areas

Function	 Adjusts image characteristics according to user requirements for each type of media by varying the second transfer voltage.
Use	 When an image problem (void areas, white spots) occurs due to the characteristics of the type of media being used. To give preference to the image quality of fine line drawing :[Void Area+1], [Void Area+2]
	To give preference to the image quality of solid images
	:[White Spot+1], [White Spot+2]
Setting	1. Connect the printer to the PC.
/procedure	Execute the "LineDrawEffect_for2500W(E).exe" service support tool.
	Select the type of media for which adjustments are to be made.
	Click [Show Status] to check the current setting.
	Click to select either [Void Area+1] or [White Spot+1].
	6. Click [Show Status] again to make sure that the setting has been correctly changed.
	Execute a test print and check for the correct image.
	 If good effects are not obtained, change the setting to either [Void Area+2] or [White Spot+2].
	9. Turn the power switch OFF and then ON again.

7.2.5 Consumables expected life display

Function	 Displays the expected remaining life (as a percentage) of the 2nd trans transfer belt unit, and fusing unit. 	sfer roller,
Use	 For checking the remaining life of the 2nd transfer roller, transfer belt u unit. 	nit, and fusing
Setting	1. Connect the printer to the PC.	
/procedure	2. Execute the "CounterDisplay_for2500W(E).exe" service support tool.	
	CounterDispla y_for2500W(E). exe	A00VF3E506DA
	3. Check the counter for each consumable.	
	😂 CounterDisplay_for2500W(E).exe	
	Residual Rate	
	Transfer Belt : 100 % 2nd Transfer Roller : 94 % Fuser Unit : 100 %	
	End	A00VE3E505DA

7.2.6 Consumables counter reset

A. 2nd transfer roller



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B. Transfer belt unit



C. Fusing unit



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

Control panel display 8.1

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.



4139F4E503DA

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	A media jam has occurred at the specified location.			
PUT MEDIA: TRAY 1 "MEDIA"	 The type of the media set in the printer driver differs from that of the media loaded in the specified tray. 			
PUT MEDIA: TRAY X "SIZE"	 The size of the media set in the printer driver differs from that of the media loaded in the specified tray. The specified tray has run out of media while media was being fed from it. 			
DRAWER OPEN TRAY 2	Tray 2 is not installed or is not correctly adjusted.			

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

8.2.5 Serious error messages

Message	Description			
ERROR AIDC SENSOR	The AIDC Sensor has developed a malfunction of some sort.			
ILLEGAL ERROR DUPLEX	• A 2-sided print cycle has been run using a type or size of media not appropriate for 2-sided printing.			
ERROR MEMORY OVER- FLOW	 The volume of data to be printed exceeds the permissible amount of data to be processed by the machine memory. 			
ERROR VIDEO UNDERRUN	The volume of data to be printed exceeds the permissible amount of data to be transferred in the machine.			
COVER OPEN FRONT	The front cover of the machine is open.			
COVER OPEN DUPLEX	The duplex option door is open.			
DRUM CARTRIDGE NOT ATTACHED	The drum cartridge is not installed.			
FUSER NOT ATTACHED	The fusing unit is not installed.			
WASTE BOTTLE NOT ATTACHED	The waste toner box is not installed.			
X TONER NOT INSTALLED	The specified color toner cartridge is not installed properly.			
DRUM CARTRIDGE END OF LIFE	The drum cartridge has reached its service life due to the waste toner box being full.			
TONER LIFE END XXXX	The specified color toner cartridge has run out (only when ENGINE/TONER EMPTY is set to STOP).			
TONER LIFE END XXXX (with the error indicator lit up steadily)	 The specified color toner cartridge has run out completely or exceeded its service life. 			
TRAY 2 NOT ATTACHED	The specified tray is not installed, but it is set in the printer driver.			
DUPLEX OPTION NOT ATTACHED	 The duplex option is not installed, but 2-sided printing is specified in the printer driver. 			

Message	Description		
SIZE/TYPE ERROR DUPLEX	The media size or type loaded in the machine is not appropriate for 2-sided printing.		
SIZE/TYPE ERROR	 The correct media size or type is not loaded in, or being fed through, the machine. 		

* 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	A fault has occurred in the controller.		
ERROR ENGINE INTERFACE	There is a connection fault between the printer control board (PRCB) and the image processing board (IPB).		
ERROR COMMUNICATION	A communications error has occurred in the USB or Ethernet interface.		
FATAL ERROR CODE: XXX	The engine or controller is faulty.		

* 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.
- 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 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.		



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	
	LANGUAGE SET FRENCH	
	LANGUAGE SET GERMAN	
	LANGUAGE SET ITALIAN	D 96
	LANGUAGE SET PORTUGUESE	F.00
	LANGUAGE SET SPANISH	
	LANGUAGE SET CZECH	
	LANGUAGE SET JAPANESE	

		MENU		Ref. page
ENGINE	REPLACE TONER			P.87
	TONER EMPTY			P.87
	ENERGY SAVER 1			P.88
	AUTO CONTINUE			P.88
	TRAY CHAINING *2			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 *3		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			
	HTTP:XX			P.93
	SNMP:XX			P.93
	FORCED MODES			P.93
CONSUMABLE	BLACK TONER			P.94
USAGE	CYAN TONER			P.94
	MAGENTA TONER			P.94
	YELLOW TONER	YELLOW TONER		
	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

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 languaThe default setting va	ige of the control pa iries according to the	nel display. e voltage of the prin	ter.
Setting/ procedure	 The default setting is ENGLISH (110V and 220V printers) or JAPANESE (100V printers). 			
	"English" Portuguese	FRENCH SPANISH	GERMAN CZECH	ITALIAN "JAPANESE"

9.4 ENGINE

9.4.1 REPLACE TONER

A. REPLACE TONER/(color)

Function	 Moves a specific color toner cartridge to the appropriate position to allow it to be replaced.
Use	 To allow a toner cartridge to be replaced.
Setting /procedure	 Select [ENGINE REPLACE TONER] and the specific color of toner to be replaced. 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. Open the top cover and replace the toner cartridge. Close the top cover. The initial screen will then reappear.

B. REPLACE TONER ALL

Function	 Moves each toner cartridge to the appropriate position, one by one, to allow all of the toner cartridges to be replaced with new ones.
Use	 To allow all of the toner cartridges to be replaced.
Setting /procedure	 Select [REPLACE TONER ALL]. 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. Open the top cover and replace the toner cartridge. Close the top cover. Then, the message [OPEN DOOR/REPLACE TONER K] appears on the display. Repeating the same steps, replace all toner cartridges with new ones. NOTE The toner cartridges are to be replaced in the order of C → K → Y → M. Close the top cover. The initial screen will then reappear.

9.4.2 TONER EMPTY

Function	 Specifies whether to stop or continue printing when a toner empty condition is detected.
Use	To permit printing upon a toner empty condition.
Setting	The default setting is STOP.
/procedure	"STOP" CONTINUE
	 When [STOP] is selected The print cycle is stopped when the toner consumption rate becomes 0%. The message shown on the control panel reads [TONER LIFE END.] Only the orange LED stays lit up steadily. When [CONTINUE] is selected A print cycle can be carried out even when the toner consumption rate becomes 0%. The message shown on the control panel reads [TONER LIFE END.] Both the green and orange LEDs blink. The print cycle is stopped after 6K printed pages have been produced. The message shown on the control panel reads [TONER LIFE END.] Only the orange LED stays lit up steadily.

9.4.3 ENERGY SAVER

Function	 Sets the amount of time after the last job was printed or the last key operated before the machine enters energy saver mode. Energy saver mode is automatically canceled when any of the following operations is performed: The machine is restarted. A print job is received. Any key on the control panel is pressed. The front cover or top cover is opened and closed.
Use	 To change the amount of time before the machine enters energy saver mode.
Setting /procedure	The default setting is 30 MINUTES. 15 MINUTES "30 MINUTES" 60 MINUTES 120 MINUTES * * Displayed only on the model for the Americas.
	NOTE This menu is displayed only on 110V models when ENGINE/SERVICE/ ENERGY SAVER is set to ON.

9.4.4 AUTO CONTINUE

Function	 Enables or disables printing when the size of the media loaded in the tray does not match that of the print data. 	
Use	 To print data on the media loaded in match that of the print data. 	the tray if the media loaded in the tray does not
Setting /procedure	The setting can be changed during pThe default setting is ON.	printing.
	"ON"	OFF

9.4.5 TRAY CHAINING

Function	 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. The setting is enabled when the optional Lower Feeder Unit is installed. 	
Use	 To continue printing from a second tray when the first tray runs out of media. 	
Setting/proce- dure	The setting can be changed during printing.The default setting is ON.	
	"ON" OFF	

9.4.6 SERVICE

A. TOTAL FACE COUNT

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

B. COLOR FACE COUNT

Function	Displays the total number of pages printed in color.
Use	 To identify the total number of color pages printed.

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	 To help determine whether the controller firmware needs to be upgraded. To identify the controller firmware version when the image processing board is replaced.

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	 To calibrate the engine when there are print image quality problems. To calibrate the engine when the transfer belt unit and transfer roller are replaced with new ones.
Setting /procedure	 Select [COLOR CALIBRATION] and press the Menu Select key. The color calibration is executed and, when it is completed, the initial screen reappears.

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	 Select [REMOVE ALL TONER]. 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. Open the top cover and remove the toner cartridge. Close the top cover. then, the message [OPEN DOOR/REMOVE TONER K] appears on the display. Repeating the same steps, remove the remaining toner cartridges. NOTE The toner cartridges are to be removed in the order of C → K → Y → M. Close the top cover. the initial screen will then reappear.

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.	
procedure	"ON"	OFF

I. RESTORE USER DEFAULT

Function	 Resets the [ENERGY SAVER], [AUTO CONTINUE], [TRAY CHAINING], [DUPLEX DENSITY], [ALTITUDE SETUP] and [TRANSFER VOLTAGE] values to their factory default settings. Resets the administrator password to its factory default setting.
Use	 To reset the [ENERGY SAVER], [AUTO CONTINUE], [TRAY CHAINING], [DUPLEX DENSITY], [ALTITUDE SETUP], and [TRANSFER VOLTAGE] menus and adminis- trator password to their factory default settings.
Setting /procedure	 Select [RESTORE USER DEFAULT] and press the Menu Select key. This initializes the setting values of the functions involved are reset to their factory default values, and the Engine/Service menu reappears.

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	 The default setting is 0. With [RESTORE USER DEFAULT] selected, hold down the ▼ key for 2 seconds or more. Select [DUPLEX DENSITY] using the ◀ or ► key and press the Menu Select key. In [DUPLEX DENSITY] selected, press the ◀ or ► key as necessary to select the appropriate density level value. Press the Menu Select key to accept the new density level setting. NOTE This setting is available only when a Duplex Option is installed.
Adjustment range	• -3 to +3

K. ALTITUDE SETUP

Function	 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. 			
Use	 To adjust the developing bias when an image problem (uneven density) occurs in an environment of low atmospheric pressure at high altitudes. 			
Setting /procedure	 The default setting is 0. 1. With [RESTORE USER DEFAULT] selected, hold down the ▼ key for 2 seconds or more. 2. Select [ALTITUDE SETUP] using the ◄ or ► key and press the Menu Select key. 3. In [ALTITUDE SETUP], press the ◄ or ► key as necessary to select the appropriate altitude setting value. 			
	Setting value Developing bias value			
	0 No offset			
	1 100 V			
	2 200 V			
	3 300 V			
	 4. Press the Menu Select key to accept the new setting. NOTE After changing this setting, be sure to run [COLOR CALIBRATION] ([ENGINE] → [SERVICE]). 			
Adjustment range	• 0 to 3			

L. TRANSFER VOLTAGE

Function	 Adjusts image characteristics according to user requirements for each type of media by varying the second transfer voltage. 			
Use	 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. If white spots occur, decrease the 2nd transfer voltage (adjust in the minus direction). If void areas occurs, increase the 2nd transfer voltage (adjust in the plus direction). 			
Setting /procedure	 The default setting is 0. 1. With [RESTORE USER DEFAULT] selected, hold down the ▼ key for 2 seconds or more. 2. Select [TRANSFER VOLTAGE] using the ◄ or ► key and press the Menu Select key. 3. In [TRANSFER VOLTAGE], press the ◄ or ► key as necessary to select the appropriate voltage value. 			
	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		
	4. Press the Menu Select key to accept the new voltage setting.			
Adjustment range	• -3 to +3			

9.5 NETWORK

9.5.1 DHCP:XX / BOOTP:XX

Function	 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. BOOTP : Automatically acquires an IP address from BOOTP and specifies whether 	
	to load other network information.	
Use	 To automatically acquire an IP address and load other network information. 	
Setting /procedure	 Turn "ON" either [DHCP] or [BOOTP] or "OFF" both. The default setting is [DHCP]: ON / [BOOTP]: OFF. 	
	"DHCP:ON / BOOTP:OFF" DHCP:OFF / BOOTP:ON DHCP:OFF / BOOTP:OFF	

9.5.2 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.
	NOTE ● Before manually setting the IP address, turn OFF DHCP and BOOTP in the [NETWORK] → [DHCP:XX/BOOTP:XX] menu.

9.5.3 SUBNET MASK

Function	Sets the subnet mask of the printer used on the network.
Use	To enter the printer's subnet mask.
Setting /procedure	 Enter the subnet mask using the ▲, ▼, ◀, and ▶ arrow keys. The default setting is 255.255.255.0.
	 NOTE Before manually setting the subnet mask, turn OFF DHCP and BOOTP in the [NETWORK] → [DHCP:XX/BOOTP:XX] menu.

9.5.4 GATEWAY

Function	 Sets the gateway address of the printer used on the network.
Use	To enter the printer's gateway address.
Setting/ procedure	 Enter the gateway address using the ▲, ▼, ◀, and ▶ arrow keys. The default setting is 192.168.1.1.
	NOTE • Before manually setting the gateway address, turn OFF DHCP and BOOTP in the [NETWORK] \rightarrow [DHCP:XX/BOOTP:XX] menu.

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 We col or not. 	b Connection and to use the IPP proto-
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. 	
	"ON"	OFF

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. 		
	"ON"	OFF	

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. 		
	100M/FULL/ON 100M/FULL/OF 100M/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		

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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	 Sets the output resolution for camera direct photo printing. 		
Use	 To change the output resolution for camera direct photo printing. The output resolution for each setting is as follows. DRAFT : 600 dpi x 600 dpi NORMAL : 600 dpi x 1200 dpi FINE : 600 dpi x 2400 dpi NOTE 		printing.
	 To select NORMAL and FIN be installed. Only DRAFT r 	IE mode, an additional 12 node is available with the	8 MB of memory needs to printer's base memory.
Setting /procedure	 The default setting is DRAFT 		
	"DRAFT"	NORMAL	FINE

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	The default setting is A4 or LETTER.		
procedure	"LETTER" "A4" PHOTO SIZE 4X6 A4 4-UP L SIZE NOTE • LETTER is the defaul for all other regions.	A5 STATEMEN PHOTO SIZE 10X15 A4 2-UP 10X15 t setting for the Americas, a	NT J-POSTCARD LTR 2-UP 4X6 nd A4 is the default setting

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	The default setting is PLAIN PAPER.	
/procedure	"PLAIN PAPER" THICK STOCK GLOSSY POSTCARD LABELS	

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 came sheet. 	era direct photo printin	g images to be printed on each
Setting /procedure	 The default setting is 1-UP. 		
	"1-UP" 1 2	2-UP 2	1 3-UP 2 3
	4-UP 1 2 6	12 S-UP 34 56	12 8-UP 56 78

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	The default setting is OFF.		
/procedure	ON	"OFF"	

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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	The default setting is OFF.	
/procedure	ON	"OFF"

9.7.7 AUTO ROTATE

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

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.



Adjustment / Setting

10.1.4 Malfunction screen

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

SERVICE CALL XX

4139F3E504DA

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. NOTE Appears when [QUALITY MENU] → [TONER OUT ACTION] is set to [CONTINUE].
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
	 The media size set in the printer driver is different from the size media loaded in Tray1.
PAPER MISMATCH	NOTE • Appears when [PAPER MENU] → [INPUT TRAY] → [AUTO CONTINUE] is set to [OFF].

10.2.3 Error messages

Message	Description		
AIDC ERROR	The AIDC sensor has developed a malfunction of some sort.		
DISK ERROR	The hard disk is full or damaged.		
DISK FULL	The hard disk is full.		
DUPLEX UNIT PANEL OPEN	The duplex option cover is open.		
	 The specified color of toner cartridge is empty. 		
REPLACE X TONER	NOTE ● This message appears when [QUALITY MENU] → [TONER OUT ACTION] is set to [STOP].		
FIRMWARE UPDATE FOMAT ERROR	An error occurred while the firmware was being initialized.		
FIRMWARE UPDATE INVALID IMAGE	The downloaded system image is corrupted or the version is incorrect.		
MAIN UNIT COVER OPEN	The front cover of the machine is open.		
OPC DRUM MISSING	The drum cartridge is not installed.		
PAPER JAM XXXX	A media jam has occurred at the specified location.		
PUT "SIZE" "TYPE" IN ANY TRAY	 The media type set in the printer driver is different from the type of media loaded into the specified tray. 		
PUT "SIZE" "TYPE" IN TRAY 1	 The media size set from the printer driver is different from the size of media loaded in Tray 1. NOTE This message appears when [PAPER MENU] → [INPUT TRAY] → [TRAY 1 MODE] is set to [CASSETTE]. 		
PUT "SIZE" "TYPE" IN TRAY 2	 The media size set from the printer driver is different from the size of media loaded in Tray 2. NOTE This message appears when [PAPER MENU] → [INPUT TRAY] → [AUTO CONTINUE] is set to [OFF]. 		
REPLACE OPC DRUM	The drum cartridge is empty.		
X TONER MISSING	The specified color of toner cartridge is not installed.		

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.
- 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 "			P.104	
PRINT MENU	MENU MAP	MENU MAP		
	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 *2		P.107
		CUSTOM SIZE		P.107
		AUTO CONTINUE		P.108
		TRAY CHAINING *2		P.108
		MAP *2	MODE	P.108
			LOGICAL TRAY 0-9	P.108
	DUPLEX "3			P.109
	ORIENTATION			P.109
	PAGE RECOVERY	PAGE RECOVERY		
QUALITY MENU	REPLACE TONER	BLACK		
		CYAN		P.109
		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 *5	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	P.113
		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 11		P.119	
	FORMAT	FORMAT FLASH		P.119
		FORMAT DISK *1		P.120
	RESTORE/SAVE	RESTORE FACTOR	(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.
- 1. 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.
- 3. Press the ▲ and ▼ keys to increase or decrease the second digit of the password.
- 4. 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] \rightarrow [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] \rightarrow [PCL] and press the Menu Select key.

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. NOTE 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 • The default setting is AUTO.		
/procedure	"AUTO" CASSETTE	

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	 The default setting the default setting the default setting the media sizes av 	for North America is L for all other regions is ailable are as follows.	ETTER. A4.	
	LETTER	LEGAL	EXECTIVE	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



(2) MEDIA TYPE

Function	 Specifies the settin 	g for the type of m	edia loaded in Tray 1.	
Use	 To specify the type 	of media loaded in	n Tray 1.	
Setting /procedure	The default setting	IS PLAIN PAPER.		
	"PLAIN PAPER" LABEL	THICK POSTCARD	TRANSPARENCY ENVELOPE	LETTERHEAD GLOSSY

C. TRAY 2

(1) MEDIA SIZE

Function	Specifies the size of the media loaded in Tray 2.		
Use	 To specify the size of the media loaded in Tray 2. 		
Setting /procedure	 The default setting for North America is LETTER. The default setting for all other regions is A4. 		
	LETTER NOTE • This setting is available only when a	A4 In optional Lower Feeder Unit is installed.	

(2) MEDIA TYPE

Function	Specifies the setting for the type of media loaded in Tray 2.		
Use	To specify the type of media loaded in Tray 2.		
Setting /procedure	The default setting is PLAIN PAPER. PLAIN PAPER LETTERHEAD		
	NOTE This setting is available only when an optional Lower Feeder Unit is installed. 		

D. CUSTOM

(1) WIDTH

Function	Specifies the width of the custom-sized media in Tray 1.
Use	 To specify the width of the custom-sized media in Tray 1.
Setting /procedure	 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)]. The default setting is 92.0 mm (3.62 in.).
	92.0 to 216.0 mm (3.62 to 8.50 in.)

(2) LENGTH

Function	Specifies the length of the custom-sized media in Tray 1.
Use	 To specify the length of the custom-sized media in Tray 1.
Setting /procedure	 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)]. The default setting is 148.0 mm (5.83 in.).
	148.0 to 356.0 mm (5.83 to 14.02 in.)

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E. AUTO CONTINUE

Function	 Enables or disables printing when the size of the media loaded in the tray does not match that of the print data. 	
Use	 To print data on the media loaded in match that of the print data. 	n the tray of the media loaded in the tray does not
Setting /procedure	 The default setting is OFF. 	
	"OFF"	ON

F. TRAY CHAINING

Function	 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.
Use	 To allow media to be pulled from another tray when the media in the first tray runs out.
Setting	The default setting is YES.
/procedure	"YES" NO
	NOTE This setting is available only when an optional Lower Feeder Unit is installed.

G. MAP (1) MODE

Function	 Selects whether or not the Tray Mapping function is used. 	
Use	 To specify whether trays are mapped. 	
Setting /procedure	The default setting is ON.	
procedure	"ON"	OFF

(2) LOGICAL TRAY 0-9

Function	Specifies whether jobs received from printed using Tray 1 or Tray 2.	m another manufacturer's printer driver are
Use	To specify the media source for prin	t jobs using another manufacturer's printer driver.
Setting /procedure	 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. 	
	PHYSICAL TRAY 1	PHYSICAL TRAY 2

11.4.2 DUPLEX

Function	 Selects whether or not the duplex print function is used. 	
Use	To use the duplex print function.	
	OFF SHORT EDGE LONG EDGE	 Duplex printing is not possible. The pages will be printed on both sides of the media for short- edge binding. The pages will be printed on both sides of the media for long- edge binding.
Setting	The default settin	j is OFF.
/procedure	"OFF"	SHORT EDGE LONG EDGE
	NOTE This setting is a 	vailable only when a Duplex Option is installed.

11.4.3 ORIENTATION

Function	Specifies the orientation of the media.	
Use	To change the orientation of the media.	
Setting	 The default setting is PORTRAIT. 	
/procedure	"PORTRAIT"	LANDSCAPE

11.4.4 PAGE RECOVERY

Function	 Selects whether or not the page is printed again after recovering from a media misfeed. 	
Use	 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. 	
Setting /procedure	The default setting is ON. "ON" OFF	

11.5 QUALITY MENU

11.5.1 REPLACE TONER

A. BLACK/CYAN/MAGENTA/YELLOW

Function	 Moves the specified color of toner cartridge into replacement position, so it can be replaced.
Use	 To replace the specified color of toner cartridge.
Setting /procedure	 Select [QUALITY MENU] → [REPLACE TONER] and the specific color of toner to be replaced. 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. Open the top cover and replace the toner cartridge. Close the top cover. The initial screen will then reappear.

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11.5.2 TONER OUT ACTION

Function	 Specifies whether to stop or continue printing when a toner empty condition is detected. 	
Use	To select to permit printing upon a toner empty condition.	
Setting /procedure	 The default setting is STOP. "STOP" 	CONTINUE
	NOTE • When cartridge reaches 6K, printer will stop printing irrespective of [TONER OUT ACTION] set to [STOP] or [CONTINUE].	

11.5.3 AIDC

A. REQUEST AIDC

Function	Executes image adjustments.
Use	 To calibrate the engine when there are print image quality problems. To calibrate the engine when the transfer belt unit and transfer roller are replaced with new ones.
Setting	The default setting is NO.
/procedure	YES "NO"
	 If YES is selected, image adjustments are performed.

B. MODE

Function	Applies the image adjustments	
Use	 If ON is selected, to apply the image adjust If OFF is selected, to not apply image adjust 	nents. tments.
Setting	 The default setting is ON. 	
/procedure	"ON"	OFF

11.5.4 DENSITY CONTROL

A. BLACK/CYAN/MAGENTA/YELLOW

Function	Adjusts the density of the toner to one of five levels.
Use	To vary the density of the printed image.
Setting /procedure	The default setting is 3. 1 to 5

11.6 CAMERA DIRECT

NOTE

This menu item appears for magicolor 2550DN only.

11.6.1 PAPER SOURCE

Function	The trav that is used can be specified		
Use	• The tray that is used can be specified.		
Setting	 The default setting is TRAY1. 		
/procedure	"TRAY1"	TRAY2	
	NOTE This setting is available only when 	an optional Lower Feeder Unit is installed.	

11.6.2 LAYOUT

Function	Sets the number of images	printed on one page for	camera direct photo printing.
Use	 To specify the number of car sheet. 	mera direct photo printi	ng images to be printed on each
Setting /procedure	 The default setting is 1-UP. 		
	"1-UP" 1	2-UP 2	1 3-UP 2 3
	4-UP 1 2 3 4	1 2 6-UP 3 4 5 6	12 34 56 78

11.6.3 PAPER MARGIN

Function	Specify the media margin size	
Use		
Setting	 The default setting is STANDARD. 	
/procedure	"STANDARD"	MINIMUM

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	The default setting is YES.	
procedure	"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	The default setting is YES.	
/procedure	"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."
	NOTE When the printer's IP address is set manually, DHCP/BOOTP is automatically set to OFF.

(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	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.	
Use	 To automatically acquire an IP address when DHCP/BOOTP, PING, and ARP are not functioning or when there is no response. 	
Setting /procedure	The default setting is NO.	
	YES	"NO"

B. IPX/SPX(1) FRAME TYPE

Function	Sets the Ethe	rnet frame type.				
Use	To specify the	e Ethernet frame	type for transm	nission.		
Setting	The default s	etting is Auto.				
/procedure	"Auto"	802.2	802.3	ETHER II	SNAP	

C. ETHERTALK

(1) NAME

Function	 Specifies the first part of the name of the printer on the Macintosh EtherTalk (Apple- Talk) network, so it can be "found."
Use	 To set the Printer name displayed on the Macintosh EtherTalk (AppleTalk) network. The printer name can contain a maximum of 16 characters.
Setting /procedure	The default setting is magicolor 2550.

(2) NAME 2

Function	 Specifies the second part of the name of the printer on the Macintosh EtherTalk (AppleTalk) network, so it can be "found."
Use	 To set the Printer name displayed on the Macintosh EtherTalk (AppleTalk) network. The printer name can contain a maximum of 16 characters.
Setting /procedure	The default setting is NULL.

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(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 "Auto" 10 Full Duplex NOTE Make sure to turn the p work speed. 	o. 100 Full Duplex 10 Half Duplex ower switch OFF and Of	100 Half Duplex N again after changing the net-

E. PS PROTOCOL

Function	 Selects whether PostScript jobs are received in format. 	n the binary format or the quoted
Use	To transmit PostScript data in quoted format.	
Setting	The default setting is BINARY.	
procedure	"BINARY"	QUOTED BINARY

11.7.2 USB

A. ENABLE

Function	Specifies whether to enable or disable USB.	
Use	To disable USB.	
Setting	The default setting is YES.	
procedure	"YES"	NO

B. JOB TIMEOUT

Function	 Specifies the length of time until the print job being received is timed out when the USB interface is being used.
Use	To set the amount of time before a print job sent to the USB interface times out.
Setting /procedure	The default setting is 60 (seconds).
•	0 to 999

11.7.3 PARALLEL

A. JOB TIMEOUT

Function	 Specifies the length of time until the print job being received is timed out when the parallel interface is being used.
Use	To set the amount of time before a print job sent to the parallel interface times out.
Setting	The default setting is 30 (seconds).
procedure	0 to 999

11.7.4 ACTIVE I/F

Function	Sets the interface to be used.		
Use	 To set the interface to be used. 		
Setting	 The default setting is ETHERNET. 		
procedure	"ETHERNET"	PARALLEL	
	NOTE Only one I/F will work at any given t LEL]. Printer will reboot automatical 	ime between [ETHERNET] and [PAR lly if active I/F is changed.	AL-

11.8 SYSTEM DEFAULT MENU

11.8.1 PRINT QUALITY

Function	 Selects the image quality for prints. 	
Use	 To change the image quality setting. 	
Setting	 The default setting is HIGH. 	
/procedure	"HIGH"	STANDARD

11.8.2 COLOR MODE

Function	Specifies whether printing is in full color or grayscale.		
Use	 To select color or grayscale printing. 		
Setting	 The default setting is COLOR. 		
/procedure	"COLOR"	GRAYSCALE	

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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 identi- fied from the print job.		
Setting	ing • The default setting is PCL5.		
/procedure	"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	The default setting is ON.		
procedure	"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	 The default setting is CR=CR LF=CRLF. 		
procedure	"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		

Function	 Sets the font in the PCL language when not specified by the printer driver. 		
Use	 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. See P.105. 		
Setting /procedure	The default setting is 0. 0 to 32767		

<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	The default setting is 1200.	
/procedure	400 to 99975	

<SYMBOL SET>

Function	Sets the font symbol set in the PCL language when not specified by the printer driver.		
Use	 To use when the font symbol set cannot be specified by the printer driver during print- ing from Windows DOS, etc. 		
Setting /procedure	 The default setting is PC8. 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 		

11.8.4 STARTUP OPTIONS

A. STATUP PAGE

Function	Selects whether or not a startup page is printed when the printer is turned on.		
Use	 To specify whether a startup page is printed. 		
	YES: The startup page is printed when the printer is turned on. NO : The startup page is not printed.		
Setting	The default setting is NO.		
/procedure	YES "NO"		

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B. SYSSTART

Function	 Selects whether or not the PostScript format definitions file is applied when the printer is turned on. 		
Use	 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. 		
Setting	The default setting is NO.		
/procedure YES "NO"		"NO"	
	NOTE This menu item appears only if a 	an optional hard disk is installed.	

11.8.5 DATE & TIME

Function	 Sets the TOD (time-of-day) clock on the hard disk. 	
Use	 To adjust the TOD clock on the hard disk. The settings appear in the following order: year, month, day:hour, minutes, seconds NOTE This menu item appears only if an optional hard disk installed. 	
Setting /procedure	 Select [DATE & TIME]. Using ▲, ▼, ◀, and ▶ keys, enter the time-of-day, and day, month, and year. Accept the date and time setting using the Menu Select key. 	

11.8.6 ENERGY SAVER

Function	Specifies the length of time before the machine enters energy saver mode after the last print is received or the last key operated.			
Use	To set the amount of time before the machine enters energy saver mode.			
Setting /procedure	The default setting 15 MINUTES	is 30 MINUTES. "30 MINUTES"	1 HOUR	2 HOURS *
	 * Displayed only on the NOTE • This setting is av MGT] is set to [O 	he model for the 110 railable only when [{ N].	V models. SYSTEM DEFAUL	T] \rightarrow [ENERGY SAVER

11.8.7 ENERGY SAVER MGT

Function	 Sets whether the printer should go into energy saver mode when not printing or pro- cessing a print job and when the control panel is not being used. 		
Use	 To specify whether Energy Saver mode is to be used. 		
Setting /procedure	The default setting is ON. "ON" OFF		
	NOTE This menu item is available only on the 110 V model. 		

Adjustment / Setting

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	The default setting is OFF.	
procedure	"OFF"	ON

(2) SET PASSWORD

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

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. 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. NOTE This menu item appears only if an optional hard disk is installed.		ed.	
Setting /procedure	The default setting is OFF.			
	UFF	UN		

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. "NO" YES		
	If YES is selected, the flash RAM is initialized.		

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B. FORMAT DISK

Function	Selects whether or not to initialize	the hard disk.	
Use	Initializes the hard disk.		
	NOTE This menu item appears only if 	an optional hard disk is installed.	
Setting	The default setting is NO.		
/procedure	"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	
	NOTE • Printer will auto reboot if [YES] is sel	ected.	

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	
	NOTE Printer will auto reboot if [YES] is selected. 		

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	ESPANOL ITALIANO	PORTUGES	

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.

11.10.1 ALTITUDE SETUP

Function	•	 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. 		
Use	•	To adjust the de ronment of low	eveloping when an image problem (uneven de atmospheric pressure in places such as at hi	ensity) occurs in an envi- gh altitudes.
Setting /procedure	 The default setting is 0. Call the [ENVIRONMENT MENU] to the menu screen. Select [ALTITUDE SETUP] using the ◀ or ▶ key and press the Menu Select In [ALTITUDE SETUP], press the ▲ or ▼ key as necessary to select the appraltitude setting value. 			the Menu Select key. o select the appropriate
		Setting value	Developing bias value	
		0	No offset	
	1 100 V			
		2	200 V	
		3	300 V	
	4. Press the Menu Select key to accept the new setting.			
		OTE After the settin MENU)].	ng has been changed, be sure to run [REQ	UEST AIDC (QUALITY
Adjustment range	•	0 to 3		

11.10.2 TRANSFER VOLTAGE

Function	 Adjusts image characteristics according to user requirements for each type of media by varying the second transfer voltage. 			
Use	 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. If white spots occur, decrease the 2nd transfer voltage (adjust in the minus direction). If void areas occurs, increase the 2nd transfer voltage (adjust in the plus direction). 			
Setting /procedure	 Setting The default setting is 0. Call the [ENVIRONMENT MENU] to the menu screen. Select [TRANSFER VOLTAGE] using the ◄ or ► key and press the Menu S key. In [TRANSFER VOLTAGE], press the ◄ or ► key as necessary to select the priate voltage value. 			ss the Menu Select ry to select the appro-
	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		
	4. Press the Menu Se	lect key to accept the	new voltage setting.	
Adjustment range	• -3 to +3			

11.10.3 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	 The default setting is 0. Call the [ENVIRONMENT MENU] to the menu screen. Select [DUPLEX DENSITY] using the ◄ or ► key and press the Menu Select key. In [DUPLEX DENSITY] selected, press the ◄ or ► key as necessary to select the appropriate density level value. Press the Menu Select key to accept the new density level setting. NOTE This menu item appears only if an optional Duplex Unit is installed.
Adjustment range	• -3 to +3

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.
- With the Cancel key held down, hold down the Rotate Toner key for 10 seconds or longer.
- 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.
- 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.

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

13.3 Settings/adjustments in Service/Service person mode functions

13.3.1 RESTORE FACTORY DEFAULT

Function	Reinitializes the se	ettings to their factor	y defaults.	
Use	 To return the curre Use this as the las a malfunction. The following table NOTE Some items can A. Items that came 	 To return the current settings to the factory default settings. Use this as the last resort before replacing the board when taking remedial steps for a malfunction. The following table lists the items to be reinitialized and their default values. NOTE Some items can be reset after being reinitialized while others cannot be. A. Items that cannot be reset after reinitialization 		
	Ite	em	Factory default value	Ref. page
		Color	0	-
	Counter: Main unit	B/W	0	-
		Total	0	-
		Color	0	-
	Counter: Duplex *1	B/W	0	-
		Total	0	-
	Counter: Tr	ransfer roller	0	-
	Counter: Tra	nsfer belt unit	0	-
	Counter:	Fusing unit	0	-
	*1 When the duplex	option is installed		

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Use

	Item	Factory default value	Ref. p
SPECI PRINT C	AL PAGES/ ONFIG PAGE	NO	P.86
SPECI PRINT	AL PAGES/ TEST PAGES	NO	P.86
SPEC PRINT	IAL PAGES MENU MAP	NO	P.86
LAN	IGUAGE	ENGLISH	P.86
ENERGY (only on the mo	SAVER MGMT del for the Americas)	ON	P.88
ENER	GY SAVER	30 MINUTES	P.88
ENGINE 1	ONER EMPTY	STOP	P.87
AUTO	CONTINUE	ON	P.88
TRAY	CHAINING	ON	P.88
DUPLE	X DENSITY	0	P.90
ALTITU	JDE SETUP	0	P.91
TRANSFER VOLTAGE		0	P.91
IP ADDRESS		192.168.1.2	P.92
SUBNET MASK		255.255.255.0	P.92
GATEWAY		192.168.1.1	P.92
DHCP:XX / BOOTP:XX		DHCP:ON / BOOTP:OFF	P.92
	HTTP	ON	P.93
5	SNMP	ON	P.93
FORC	ED MODES	AUTO/AUTO/ON	P.93
	IMAGE QUALITY	DRAFT	P.94
	PAPER SIZE	A4 or Letter	P.95
	MEDIA TYPE	PLAIN PAPER	P.95
DIRECT PRINT	LAYOUT	1-UP	P.95
	BRIGHTNESS	OFF	P.95
	SHARPNESS	OFF	P.96
	AUTO ROTATE	OFF	P.96

Use					
		Item	Factory default value	Ref. page	
		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	-	
	PageScope	WINS/NetBIOS Resolution	Checked	-	
	Web Connection	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 th	e low-order 6 digits of tl	ne printer MAC address.		
Setting /procedure	1. Take note of the 2. Enter the SERV 3. Select [RESTO	current setting. ICE/SERVICE PERSO RE FACTORY DEFAUL	N mode. T] and press the Menu Select	key.	
	 When the initialization procedure is completed, restart the machine. Make the settings that were valid before initialization once again. 				
	 NOTE The reinitializa up in the parar ever executing After the reinit tridges, 2nd tra with new ones 	tion procedure resets neter chip on the print reinitialization. ialization has been ex ansfer roller, transfer h	the settings and counter va ter control board. Use utmos ecuted, be sure to replace al pelt unit, fusing unit, and dru	lues backed at care when- I toner car- im cartridge	

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	 Enter the SERVICE/SERVICE PERSON mode. Select [SERVICE PERSON SRU USAGE] and press the Menu Select key. 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	 Enter the SERVICE/SERVICE PERSON mode. Select [RESET CONTROLLER] and press the Menu Select key. 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	 Enter the SERVICE/SERVICE PERSON mode. Select [RESET COUNTER TRANSFER BELT UNIT] and press the Menu Select key. 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	 Enter the SERVICE/SERVICE PERSON mode. Select [RESET COUNTER FUSER UNIT] and press the Menu Select key. 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	 Enter the SERVICE/SERVICE PERSON mode. Select [RESET COUNTER TRANSFER ROLLER] and press the Menu Select key. 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.
- 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	 Enter the SERVICE MENU. P.129 Select [SRU] and press the Menu Select key. Select [TRANSFER BELT] and press the Menu Select key. Select [YES] and press the Menu Select key. This resets the counter and the [SERVICE MENU] reappears.

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	 Enter the SERVICE MENU. P.129 Select [SRU] and press the Menu Select key. Select [FUSER UNIT] and press the Menu Select key. Select [YES] and press the Menu Select key. This resets the counter and the [SERVICE MENU] reappears.

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	 Enter the SERVICE MENU. P.129 Select [SRU] and press the Menu Select key. Select [TRANSFER ROLLER] and press the Menu Select key. Select [YES] and press the Menu Select key. This resets the counter and the [SERVICE MENU] reappears. 	

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	 Enter the SERVICE MENU. P.129 Select [SRU] and press the Menu Select key. Select [REMOVE ALL] and press the Menu Select key. 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. Open the top cover and remove the toner cartridge. Close the top cover. Message [CHECKING TONER, PLEASE WAIT] appears. Then, the message [OPEN DOOR/REMOVE TONER K] appears on the display. Repeating the same steps, remove all toner cartridges. NOTE The toner cartridges are to be removed in the order of C → K → Y → M. Close the top cover. The initial screen will then reappear.

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	 Enter the SERVICE MENU. P.129 Select [SRU] and press the Menu Select key. Select [% REMAINING] and press the Menu Select key. Select [TRANSFER BELT], [FUSER UNIT] or [TRANSFER ROLLER] to check the remaining life of each part that is expressed as a percentage. 		



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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

MEDIA JAM TRAY 1

4138fs4505e0

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

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

PAPER	JAM
TRAY	1

4139F4E502DA

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

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)



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 separa- tor 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

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

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

	Action	WIRING DIAGRAM		
Step		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.	-	-	

magicolor 2500W magicolor 2530 DL magicolor 2550/2550DN

15.4.3 Misfeed at 2nd transfer section

A. Detection timing

Туре	Description
Detection of misfeed at 2nd	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.
transfer section	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	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.
section	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.

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

Step		WIRING DIAGRAM	
	Action	Control signal	Location (Electrical component)
1	Initial check items.	-	-
2	Check the PRCB connector for proper connection and cor- rect 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.	-	-

15.4.4 Misfeed at fusing section

A. Detection timing

Туре	Description	
Detection of	The media does not block the exit sensor (PS7) even after the lapse of a predeter- mined period of time after the registration roller solenoid (SD2) has been ener- gized.	
misfeed at fusing section	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.	

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

		WIRING DIAGRAM		
Step	Action	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 cor- rect 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.	-	-	

magicolor 2500W magicolor 2530 DL agicolor 2550/2550DN

15.4.5 Misfeed at exit section

A. Detection timing

Туре	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

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

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

		WIRING DIAGRAM	
Step	Action	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 connec- tion and correct as necessary.	-	-
4	Change IPB.	-	-
5	Change PRCB.	-	-

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.

SINTEA MINULTA magicolor 25000 Ele Display Printer Help Printer Status:	W (USBDD6) - Status Display Printer Status Figure:	
Service Call 18H How to Recover: Call Technical Support.		
- Warning Status:	Plining Status: Job Name: Page Number:	
		A00VF4E501

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.

FATAL ERROR CODE:XX

4139F4E503DA

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.



4139F4E501DA

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 molfunction	 The motor lock signal remains HIGH for a predeter- mined consecutive period of time while the main motor remains energized.
08	Main motor manunction	 The motor lock signal remains LOW for a predeter- mined consecutive period of time while the main motor remains deenergized.
0B	Ventilation fan motor malfunction	 The fan motor lock signal remains HIGH for a predeter- mined 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 predeter- mined consecutive period of time while the power sup- ply cooling fan motor remains energized.
0F	Cooling fan motor malfunction	Duplex Option Service Manual P.21

16. Error codes

magicolor 2500W magicolor 2530 DL magicolor 2550/2550DN

Code	Item	Detection Timing
10	Polygon motor malfunction	 A LOW motor lock signal is not detected even after the lapse of a predetermined period of time after the poly- gon motor has been started.
		 The motor lock signal remains HIGH for a predeter- mined consecutive period of time while the polygon motor remains energized.
12	Laser malfunction	 The SOS signal is not detected within a predetermined period of time after the output of a laser has been started.
		The SOS signal is never detected in the image area.
14	2nd image transfer pressure /retraction failure	 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.
		 The retraction position sensor/2nd image transfer is in the unblocked state even after the lapse of a predeter- mined period of time during predrive.
		 The retraction position sensor/2nd image transfer is not blocked (roller in the retracted position) within a prede- termined period of time after the retraction sequence of the 2nd transfer roller has been started.
		 The retraction position sensor/2nd image transfer is not unblocked (roller in the pressed position) within a pre- determined period of time after the pressure sequence of the 2nd transfer roller has been started.
15	Cleaning blade pressure /retraction failure	 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.
		 The retraction position sensor/cleaning blade is in the blocked state even after the lapse of a predetermined period of time during predrive.
		 The retraction position sensor/cleaning blade is not unblocked (blade in the retracted position) within a pre- determined period of time after the retraction sequence of the cleaning blade has been started.
		 The retraction position sensor/cleaning blade is not blocked (blade in the pressed position) within a prede- termined period of time after the pressure sequence of the cleaning blade has been started.
16	Transfer belt rotation failure	 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.

magicolor 2500W magicolor 2530 DL magicolor 2550/2550DN

Code	Item	Detection Timing
10	Polygon motor malfunction	 A LOW motor lock signal is not detected even after the lapse of a predetermined period of time after the poly- gon motor has been started.
		 The motor lock signal remains HIGH for a predeter- mined consecutive period of time while the polygon motor remains energized.
12	Laser malfunction	 The SOS signal is not detected within a predetermined period of time after the output of a laser has been started.
		 The SOS signal is never detected in the image area.
14	2nd image transfer pressure /retraction failure	 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.
		 The retraction position sensor/2nd image transfer is in the unblocked state even after the lapse of a predeter- mined period of time during predrive.
		 The retraction position sensor/2nd image transfer is not blocked (roller in the retracted position) within a prede- termined period of time after the retraction sequence of the 2nd transfer roller has been started.
		 The retraction position sensor/2nd image transfer is not unblocked (roller in the pressed position) within a pre- determined period of time after the pressure sequence of the 2nd transfer roller has been started.
15	Cleaning blade pressure /retraction failure	 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.
		 The retraction position sensor/cleaning blade is in the blocked state even after the lapse of a predetermined period of time during predrive.
		 The retraction position sensor/cleaning blade is not unblocked (blade in the retracted position) within a pre- determined period of time after the retraction sequence of the cleaning blade has been started.
		 The retraction position sensor/cleaning blade is not blocked (blade in the pressed position) within a prede- termined period of time after the pressure sequence of the cleaning blade has been started.
16	Transfer belt rotation failure	 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.
Z

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 tem- perature 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 com- pleted.
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 prede- termined 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 con- secutive period of time.
29		
2A	Trouble related to security	Contact the responsible people of KONICA MINOLTA
2B	Trouble related to security	when not returning in power switch OFF/ON.
2C		

16.2 How to reset

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

16.3 Solution

16.3.1 04: Printer control board malfunction

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

16.3.2 05: Flash ROM malfunction

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

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 cou- pling 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)	

	Action	WIRING DIAGRAM		
Step		Control signal	Location (Electrical component)	
1	Check the FM2 connector for proper connection and correct as necessary.	-	-	
2	Check the fan for possible over- load 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.	-	-	

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)	

	Action	WIRING DIAGRAM		
Step		Control signal	Location (Electrical component)	
1	Check the FM1 connector for proper connection and correct as necessary.	-	-	
2	Check the fan for possible over- load 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)	

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

16.3.7 12: Laser malfunction

Relevant electrical parts			
PH Unit Printe		ter control board (PRCB)	
		WIRING DIAGRA	AM
Step	Action	Control signal	Location (Electrical component)
1	Check the cable and connector for proper con- nection 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)	

	Action	WIRING DIAGRAM		
Step		Control signal	Location (Electrical component)	
1	Check the M1 connector for proper connection and cor- rect as necessary.	-	-	
2	Check M1 for proper drive coupling and correct as nec- essary.	-	-	
3	Check the SD4 connector for proper connection and correct as necessary.	-	-	
4	Check the PRCB connector for proper connection and cor- rect 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.	-	-	

magicolor 2500W magicolor 2550/2550DN

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)	

	Action	WIRING DIAGRAM		
Step		Control signal	Location (Electrical component)	
1	Check the M1 connector for proper connection and correct as necessary.	-	-	
2	Check M1 for proper drive cou- pling 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.	-	-	

16.3.10 16: Transfer belt rotation failure

Relevant electrical parts	
Belt positioning sensor (PS4) Image transfer belt unit	Printer control board (PRCB)

	Action	WIRING DIAGRAM		
Step		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)	Printer control board (PRCB)
Rack positioning sensor (PS3)	

	Action	WIRING DIAGRAM		
Step		Control signal	Location (Electrical component)	
1	Check the M2 connector for proper connection and correct as necessary.	-	-	
2	Check M2 for proper drive cou- pling 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.	-	-	

- 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)

		WIRING DIAGRAM	
Step Action		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

3

Change PRCB.

	Relevant electrical parts				
OHP	sensor (PS2)	Printer control board (PRCB)			
		WIRING DIAGRAM			
Step	Action	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)	2500W: C-10 2530 DL: C-9		

2550/2550DN: PRCB PJ12PRCB-6 (ON) 2550/2550DN: C-9

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16.3.17 24: Faulty fusing thermistor resistor

Relevant electrical parts					
Fusing unit Print		ter control board (PRCB)	er control board (PRCB)		
		WIRING DIAGRA	M		
Step	Action	Control signal	Location (Electrical component)		
1	Check the PRCB connector for proper connec- tion and correct as necessary.	-	-		
2	Change fusing unit.	-	-		
3	Change PRCB.	-	-		

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 conduct- ing?	-	NO	Change DCPU.	
	Are DC24 V and DC5 V being applied to	2500W: G-6	NO	Change DCPU.	
3	PJ2PRCB on the printer control board?	2530 DL: G-5 2550/2550DN: G-5	YES	Change PRCB.	

17.2 Control panel indicators do not light

Relevant electrical parts					
Image Contr	e processing board (IPB) ol 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 conduct- ing?	-	NO	Change DCPU.	
	Is PJ302PRCB on PRCB properly con- nected? 2500W: G-10				
3	Is CN12IPB on IPB properly connected?	2530 DL: J-9	NO	Reconnect.	
	Is CN13IPB on IPB properly connected?	2550/2550DN: J-9			
	ls P I10P on control papel properly con-		NO	Reconnect.	
4	nected?	-	YES	Change control panel. Change IPB.	

17.3 Fusing heaters do not operate

Relevant electrical parts				
Safety switch (SW2) DC Fusing unit DC		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 nower source voltage being applied	2500W: J-6	YES	Change the fusing unit.
	to CN2 on DCPU?	2530 DL: J-5 2550/2550DN: J-5	NO	Change DCPU.

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)	

		WIRING DIAGR	λM
Step	Action	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.	-	-

18.2 ROM error

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

18.2.1 SDRAM error

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

Step	Action	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 connec- tion and correct as necessary.	-	-	
3	Check the IPB connector for proper connection and correct as necessary.	-	-	
4	Change PRCB.	-	-	
5	Change IPB.	-	-	

18.3 Fatal error EEPROM

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

		WIRING DIAGRA	M
Step	Action	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 connec- tion 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

more, and turn ON the power switch.

and correct as necessary.

Change IPB.

Check the IPB connector for proper connection

1

2

3

	Relevant electrical parts					
Image	Image processing board (IPB)					
			WIRING DIAGRAM			
Step Action		•	Control signal	Location (Electrical component)		
	Turn OFF the power switch, wait for 10 sec. or					

-

-

-

-

-

18.4 Fatal error non-supported engine

Relevant electrical parts				
Printer	r control board (PRCB)	Imag	e processing board (IPB)	
	Ι			
			WIRING DIAGRA	AM
Step	ep Action		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 connector for proper connection and correct as necessary.	ec-	-	-
4	Check the IPB connector for proper connect and correct as necessary.	ion	-	-
5	Change PRCB.		-	-
6	Change IPB.		-	-

18.5 Fatal error IDC sensor

Relevant electrical parts				
IDC sensor (IDC)	Printer control board (PRCB)			

		WIRING DIAGRAM		
Step	Action	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 connec- tion and correct as necessary.	-	-	
4	IDC sensor check.	-	-	
5	Change IDC.			
6	Change PRCB.	-	-	

18.6 Controller internal error

	Relevant electrical parts					
Image	Image processing board (IPB)					
		WIRING DIAGRAM				
Step Action		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)				

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

18.8 Fatal print spooler error

	Relevant electrical parts					
Image	processing board (IPB)					
	WIRING DIAGRAM					
Step	Action	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 connec- tion, and correct as necessary.	-	-			
3	Change IPB.	-	-			

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



Step	Section	Check item	Result	Action
1		Are there scratches or lines evi- dent on the photo conductor sur- face?	YES	Replace the drum cartridge.
2	Drum cartridge	Is the outside dirty?	YES	Clean.
3		Is the connector or contact termi- nal of the drum cartridge con- nected properly?	NO	Clean the contact terminal or reconnect the connector.
4	PH unit	Is the connector or contact termi- nal of the PH unit connected properly?	NO	Clean the contact terminal or reconnect the connector.
5		Is the window surface dirty?	YES	Clean.
6		Is the transfer belt dirty with fin- gerprints or oil?	YES	Clean.
7	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.
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. \rightarrow Replace the PH unit.

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

A. Typical faulty images



Step	Section	Check item	Result	Action
1		Are there scratches or lines evi- dent on the photo conductor sur- face?	YES	Replace the drum cartridge.
2	Drum cartridge	Is the outside dirty?	YES	Clean.
3		Is the connector or contact termi- nal of the drum cartridge con- nected properly?	NO	Clean the contact terminal or reconnect the connector.
4	Toner cartridge	Is the developing bias contact ter- minal in good contact?	NO	Clean the contact terminal or check the terminal position.
5	PH unit	Is the connector or contact termi- nal 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.

19.1.3 Uneven density in FD

A. Typical faulty images



Step	Section	Check item	Result	Action
1	Drum cartridge	Are there scratches or lines evi- dent on the photo conductor sur- face?	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. \rightarrow Replace the PH Unit. \rightarrow Replace high voltage unit.

19.1.4 Uneven density in CD

A. Typical faulty images



Step	Section	Check item	Result	Action
1	Drum cartridge	Are there scratches or lines evi- dent on the photo conductor sur- face?	YES	Replace the drum cartridge.
2		Is the outside dirty?	YES	Clean.
3		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 fin- gerprints or oil?	YES	Clean.
5	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.
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. \rightarrow Replace high voltage unit.

19.1.5 Low image density

A. Typical faulty images

ABCDE

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.

19.1.6 Gradation reproduction failure

A. Typical faulty images



4036fs4048ci	4036fs4049	9c0	

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. \rightarrow Replace the PH unit. \rightarrow Replace the IDC sensor. \rightarrow Replace the high voltage unit.

19.1.7 Foggy background

A. Typical faulty images

ABCD ABCD ABCD ABCD ABCD
4036fs4030c0

Step	Section	Check item	Result	Action
1		Are there scratches or lines evi- dent on the photo conductor sur- face?	YES	Replace the drum cartridge.
2	Drum cartridge	Is the outside dirty?	YES	Clean.
3		Is the connector or contact termi- nal of the drum cartridge con- nected properly?	NO	Clean the contact terminal or reconnect the connector.
4	Toner cartridge	Is the developing bias contact ter- minal in good contact?	NO	Clean the contact terminal or check the terminal position.
5	PH unit	Is the connector or contact termi- nal 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. \rightarrow Replace the PH unit. \rightarrow Replace the IDC sensor.

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.

magicolor 2500W magicolor 2550/2550DN

19.1.9 Void areas, white spots

A. Typical faulty images

Void areas	White spots
ABCDE ABCDE ABCDE ABCDE ABCDE ABCDE	• • • • • • • • •

B. Troubleshooting procedure

Step	Section	Check item	Result	Action
1	Drum cartridge	Are there scratches or lines evi- dent on the photo conductor sur- face?	YES	Replace the drum cartridge.
2		Is the outside dirty?	YES	Clean.
3		Is the transfer belt dirty with fin- gerprints or oil?	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 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



Step	Section	Check item	Result	Action
1		Are the spots in a single color?	NO	Replace the drum cartridge.
2	Drum cartridge	Are there scratches or lines evi- dent on the photo conductor sur- face?	YES	Replace the drum cartridge.
3		Is the Transfer Belt dirty with fin- gerprints or oil?	YES	Clean.
4	Transfer belt unit	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.

19.1.11 Blurred image

A. Typical faulty images

Blurred image	
ABCDE	
ABCDE	
ABCDE	
ABCDE	
403664031c0	

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. \rightarrow Replace the PH unit.

magicolor 2500W magicolor 2530 DL magicolor 2550/2550DN

19.1.12 Blank copy, black copy

A. Typical faulty images

Blank print	Black print	
4036fs4038c0	4036fs4039c0	

Step	Section	Check item	Result	Action
1	Image check	Does a blank print occur?	YES	Check the PH unit connector for proper connection.
2		Is the gear of the drum cartridge drive mechanism installed prop- erly?	NO	Check or correct the drive trans- mitting section or replace the drum cartridge.
3	Drum cartridge	Is the charge corona voltage con- tact or photo conductor ground contact of the drum cartridge con- nected properly?	NO	Check, clean, or correct the con- tact.
4	High voltage unit	Is the connector connected prop- erly?	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.

19.1.13 Incorrect color image registration

A. Typical faulty images



Step	Section	Check item	Result	Action
1	Transfer belt unit	Is the transfer belt dirty with fin- gerprints 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.

19.1.14 Poor fusing performance, offset

A. Typical faulty images

Poor fusing performance	Offset
CF	CF
4008#409+0	

B. Troubleshooting procedure

Step	Section	Check item	Result	Action
1	Media	Does the media being used con- form 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.

magicolor 2500W magicolor 2530 DL magicolor 2550/2550DN



19.1.16 Back marking

A. Typical faulty images



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 fin- gerprints 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. \rightarrow Replace the high voltage unit.

19.1.17 Uneven pitch

A. Typical faulty images

4138	34507c0

Step	Section	Check item	Result	Action
1	Toner cartridge	Is the toner cartridge for each color of toner installed in posi- tion?	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 dam- aged?	YES	Clean or replace the toner car- tridge.
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 mecha- nism 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.



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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)
magicolor 2500W magicolor 2550/2550DN magicolor 2550/2550DN

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



- [1] DC power supply (DCPU)
- [2] USB board (USB) *
- [3] PH unit (PH)

- [4] High voltage unit (HV)
- [5] Image processing board (IPB)
- [6] Printer control board (PRCB)
- *: Only for the magicolor 2530 DL and magicolor 2550DN.

magicolor 2500W magicolor 2530 DL magicolor 2550/2550DN



- [1] Fusing motor (M4)
- [2] Pressure/retraction solenoid /cleaning blade (SD3)
- [3] Main motor (M1)
- [4] Ventilation fan motor (FM2)
- [5] Developing motor (M3)

- [6] Rack motor (M2)
- [7] Registration roller solenoid (SD2)
- [8] Tray1 paper pick-up solenoid (SD1)
- [9] Power supply cooling fan motor (FM1)
- [10] Pressure/retraction solenoid /2nd image transfer (SD4)

magicolor 2500W magicolor 2550/2550DN



- [1] Retraction position sensor /cleaning blade (PS6)
- [2] Safety switch (SW2)
- [3] Rack positioning sensor (PS3)
- [4] Temperature/ humidity sensor (TEM/HUMS)
- [5] Tray1 paper empty sensor (PS9)
- [6] OHP sensor (PS2)
- [7] Power switch (SW1)

- [8] Fusing paper loop sensor (PS8)
- [9] Registration sensor (PS1)
- [10] Belt positioning sensor (PS4)
- [11] Fusing safety switch (SW3)
- [12] Exit sensor (PS7)
- [13] Retraction position sensor /2nd image transfer (PS5)
- [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)

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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



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			

22. Timing chart



magicolor 2500W magicolor 2550/2550DN magicolor 2550/2550DN





SERVICE MANUAL

FIELD SERVICE

Lower Feeder Unit

2006.08 KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. Ver. 1.0

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

A number within **A** 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

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General

1. Product specifications

1.1 Type

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

1.2 Paper type

Paper size	A4S/LetterS
Paper type	 Plain paper: 60 to 90 g/m² (16 to 24 lb) Recycled paper: 60 to 90 g/m² (16 to 24 lb)
Capacity	500 sheets

1.3 Machine specifications

Power requirements	DC 24 V \pm 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.

Field Service Ver. 1.0 Aug. 2006

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Maintenance

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

- 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.

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.



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

3. Other

1. Remove the Lower Feeder Unit from

the main unit. 2. Slide out the tray [1].

3.3.2 Tray

3. Other



3.3.3 Rear cover



3.3.4 Paper pick-up unit



the rear cover [2].

2. Remove four screws [1], and remove

1. Slide out the tray.

See P.6

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)





3.3.6 Paper pick-up solenoid (SD1)



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].

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].



Tray set detecting switch (SW1) 3.3.7



pick-up solenoid [2].

1. Remove the paper pick-up unit.

set detecting switch [3].

2. Unlock two tabs [1], disconnect one connector [2] and remove the tray

See P.6

4. Remove one screw [1] and the paper

Lower Feeder Unit

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Lower Feeder Unit

Lower Feeder Unit

Troubleshooting

4. Jam display

4.1 Misfeed display

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



Display	Misfeed location	Misfeed clearing location	Ref. page
MEDIA JAM TRAY 2	Tray 2 paper feed section	Tray 2	P.13

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



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.	
ls 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

Туре	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 ele	ctrical parts
Registration sensor (PS1)	Printer control board (PRCB)
Paper pick-up solenoid (SD1)	

		WIRING DIAGRAM	
Step	Action	Control signal	Location (Electrical compo- nent)
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.	-	-

Lower Feeder Unit

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SERVICE MANUAL

FIELD SERVICE

Duplex Option

2006.08 KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. Ver. 1.0

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

A number within **A** 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.

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Date	Service manual Ver.	Revision mark	Descriptions of revision

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Duplex Option

General

1. Product specifications

А. Туре

Name	Duplex Option
Туре	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	 Plain paper: 60 to 90 g/m² (16 to 24 lb) Recycled paper: 60 to 90 g/m² (16 to 24 lb)

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) × 153 (D) × 327 (H) mm 14.6 (W) × 6.0 (D) × 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.

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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

- 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.

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].





- Field Service Ver. 1.0 Aug. 2006
- 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

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

3. Other
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].

Duplex Option

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].

[2]

[3]

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[1]

[2]

[1]

[1]

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

Maintenance

Duplex Option

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

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



3.3.5 Transport motor (M1)



3.3.6 Reverse motor (M2)



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

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].

- 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].

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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.

MEDIA JAM DUPLEX LOWER

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Display	Misfeed location	Misfeed clearing location	Ref. page
MEDIA JAM DUPLEX LOWER	Duplex Option reverse drive/storage section		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.



4.4 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

Туре	Description
Detection of mis- feed at Duplex Option reverse drive/storage sec- tion	The transport sensor (PS3) is not unblocked even after the lapse of a predeter- mined 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)	

		WIRING DIAGRAM	N
Step	Action	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

Туре	Description
Detection of mis-	The paper loop sensor (PS1) is not unblocked even after the lapse of a predeter- mined period of time after a duplex paper feed sequence has been started.
feed at Duplex Option paper feed	The paper loop sensor (PS1) is not blocked even after the lapse of a predeter- mined period of time after a duplex paper feed sequence has been started.
section	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)	

		WIRING DIAGRAM	
Step	Action	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.	-	-

Troubleshooting

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.

Pinter Status: Service Call/IBH How to Recover:	Pintel Status Figure	
Call Technical Support.		
-Warning Status:	Printing Status: Job Name: Page Number:	

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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.



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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.



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5.1.4 Trouble code list

Code	Item	Detection Timing
0F	Cooling fan motor malfunction	 The fan motor lock signal remains HIGH for a predeter- mined consecutive period of time while the cooling fan motor remains energized.

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)	

		WIRING DIAGRAM	
Step	Action	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 connec- tion 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	 The Duplex Option is not mounted. A 2-sided print cycle is run using the type and size of paper that are not good for 2-sided printing. 	

6.2 ILLEGAL ERROR DUPLEX

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

		WIRING DIAGRAM	
Step	Action	Control signal	Location (electrical component)
1	Check the printer driver settings.	-	-
2	Check the ADDB connector for proper connec- tion and correct as necessary.	-	-
3	Check the PRCB connector for proper connec- tion 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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