

magicolor[®] 2300 SERIES

Service Manual



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SAFETY

1. SAFETY PRECAUTIONS FOR INSPECTION AND SERVICE

- When performing inspection and service procedures, observe the following precautions to prevent accidents and ensure utmost safety.
- * Depending on the model, some of the precautions listed below do not apply.
- · Different markings are used to denote specific meanings as detailed below.

⚠ WARNING

 Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

⚠ CAUTION

- Indicates a potentially hazardous situation whech, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsave practices.
- The following graphic symbols are used to give instructions that need to be observed.



Used to call the service technician attention to what is graphically represented inside the marking (including a warning).



Used to prohibit the service technician from doing what is graphically represented inside the marking.



Used to instruct the service technician to do what is graphically represented inside the marking.

1-1. Warning

riangle Warning

1. Always observe precautions.



- Parts requiring special attention in this product include a label containing the mark shown on the left plus precautionary notes. Be sure to observe the precautions.
- Be sure to observe the "Safety Information" given in the user documentation.
- 2. Before starting the procedures, be sure to unplug the power cord.



- This product contains a high-voltage unit and a circuit with a large current capacity that may cause an electric shock or burn.
- · The product also contains parts that can jerk suddenly and cause injury.
- If this product uses a laser, laser beam leakage may cause eye damage or blindness.

↑ WARNING

3. Do not throw toner or the toner bottle into a fire.



 Do not throw toner or the Toner Bottle (Imaging Cartridge, Toner Cartridge) into a fire. Toner expelled from the fire may cause burns.

4. Use the specified parts.



- For replacement parts, always use the genuine parts specified in the manufacturer's parts manual. Installing a wrong or unauthorized part could cause dielectric breakdown, overload, or undermine safety devices resulting in possible electric shock or fire.
- Replace a blown electrical fuse or thermal fuse with its corresponding genuine
 part specified in the manufacturer's parts manual. Installing a fuse of a different
 make or rating could lead to a possible fire. If a thermal fuse blows frequently,
 the temperature control system may have a problem and action must be taken
 to eliminate the cause of the problem.

5. Handle the power cord with care and never use a multiple outlet.



- Do not break, crush or otherwise damage the power cord. Placing a heavy object on the power cord, or pulling or bending it may damage it, resulting in a possible fire or electric shock.
- Do not use a multiple outlet to which any other appliance or machine is connected.
- · Be sure the power outlet meets or exceeds the specified capacity.

6. Be careful with the high-voltage parts.



A part marked with the symbol shown on the left carries a high voltage. Touching it could result in an electric shock or burn. Be sure to unplug the power cord before servicing this part or the parts near it.

7. Do not work with wet hands.



 Do not unplug or plug in the power cord, or perform any kind of service or inspection with wet hands. Doing so could result in an electric shock.

8. Do not touch a high-temperature part.



- A part marked with the symbol shown on the left and other parts such as the exposure lamp and fusing roller can be very hot while the machine is energized. Touching them may result in a burn.
- Wait until these parts have cooled down before replacing them or any surrounding parts.

⚠ WARNING

9. Maintain a Grounded Connection at all times.



 Connect the power cord to an electrical outlet that is equipped with a grounding terminal.

10. Do not remodel the product.



 Modifying this product in a manner not authorized by the manufacturer may result in a fire or electric shock. If this product uses a laser, laser beam leakage may cause eye damage or blindness.

11. Restore all parts and harnesses to their original positions.



- To promote safety and prevent product damage, make sure the harnesses are returned to their original positions and properly secured in their clamps and saddles in order to avoid hot parts, high-voltage parts, sharp edges, or being crushed.
- To promote safety, make sure that all tubing and other insulating materials are returned to their original positions. Make sure that floating components mounted on the circuit boards are at their correct distance and position off the boards.

1-2. Caution

A CAUTION

1. Precautions for Service Jobs.



- A star washer and spring washer, if used originally, must be reinstalled. Omitting them may result in contact failure which could cause an electric shock or fire.
- When reassembling parts, make sure that the correct screws (size, type) are
 used in the correct places. Using the wrong screw could lead to stripped
 threads, poorly secured parts, poor insulating or grounding, and result in a malfunction, electric shock or injury.
- Take great care to avoid personal injury from possible burrs and sharp edges on the parts, frames and chassis of the product.
- When moving the product or removing an option, use care not to injure your back or allow your hands to be caught in mechanisms.

A CAUTION

2. Precautions for Servicing with Covers and Parts Removed.



- Wherever feasible, keep all parts and covers mounted when energizing the product.
- If energizing the product with a cover removed is absolutely unavoidable, do
 not touch any exposed live parts and use care not to allow your clothing to be
 caught in the moving parts. Never leave a product in this condition unattended.
- Never place disassembled parts or a container of liquid on the product. Parts falling into, or the liquid spilling inside, the mechanism could result in an electric shock or fire.



- · Never use a flammable spray near the product. This could result in a fire.
- Make sure the power cord is unplugged before removing or installing circuit boards or plugging in or unplugging connectors.
- Always use the interlock switch actuating jig to actuate an interlock switch when a cover is opened or removed. The use of folded paper or some other object may damage the interlock switch mechanism, possibly resulting in an electric shock, injury or blindness.

3. Precautions for the Working Environment.



- The product must be placed on a flat, level surface that is stable and secure.
- Never place this product or its parts on an unsteady or tilting workbench when servicing.
- Provide good ventilation at regular intervals if a service job must be done in a confined space for a long period of time.
- · Avoid dusty locations and places exposed to oil or steam.
- Avoid working positions that may block the ventilation ports of the product.

4. Precautions for Handling Batteries. (Lithium, Nickel-Cadmium, etc.)



- Replace a rundown battery with the same type as specified in the manufacturer's parts manual.
- Before installing a new battery, make sure of the correct polarity of the installation or the battery could burst.
- Dispose of used batteries according to the local regulations. Never dispose of them at the user's premises or attempt to try to discharge one.

5. Precautions for the Laser Beam. (Only for Products Employing a Laser)



- Removing the cover marked with the caution label could lead to possible exposure to the laser beam, resulting in eye damage or blindness. Be sure to unplug the power cord before removing this cover.
- If removing this cover while the power is ON is unavoidable, be sure to wear protective laser goggles that meet specifications.
- Make sure that no one enters the room when the machine is in this condition.
- When handling the laser unit, observe the "Precautions for Handling Laser Equipment."

6. Precautions for storing the toner or imaging cartridge.



Be sure to keep the toner or imaging cartridge out of the reach of children.
 Licking the imaging cartridge or ingesting its contents is harmful to your health.

1-3. Used Batteries Precautions

ALL Areas

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.

Dispose of used batteries according to the manufacturer's instructions.

Germany

VORSICHT!

Explosionsgefahr bei unsachgemäßem Austausch der Batterie.

Ersatz nur durch denselben oder einen vom Hersteller empfohlenen gleichwertigen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

France

ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie.

Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.

Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

Denmark

ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

Finland, Sweden

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.

Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.

Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

VARNING

Explosionsfara vid felaktigt batteribyte.

Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.

Kassera använt batteri enligt fabrikantens instruktion.

Norway

ADVARSEL

Eksplosjonsfare ved feilaktig skifte av batteri.

Benytt samme batteritype eller en tilsvarende type anbefalt av apparatfabrikanten.

Brukte batterier kasseres i henhold til fabrikantens instruksjoner.

1-4. Other Precautions

- · When handling circuit boards, observe the "HANDLING of PWBs".
- The PC Drum is a very delicate component. Observe the precautions given in "HAN-DLING OF THE PC DRUM" because mishandling may result in serious image problems.
- Note that replacement of a circuit board may call for readjustments or resetting of particular items, or software installation.

1-5. Precautions for Service

- When performing inspection and service procedures, observe the following precautions to prevent mishandling of the machine and its parts.
- * Depending on the model, some of the precautions given in the following do not apply.

1. Precautions Before Service

- When the user is using a word processor or personal computer from a wall outlet of the same line, take necessary steps to prevent the circuit breaker from opening due to overloads.
- Never disturb the LAN by breaking or making a network connection, altering termination, installing or removing networking hardware or software, or shutting down networked devices without the knowledge and express permission of the network administrator or the shop supervisor.

2. How to Use this Book

DIS/REASSEMBLY, ADJUSTMENT

• To reassemble the product, reverse the order of disassembly unless otherwise specified.

TROUBLESHOOTING

- If a component on a PWB or any other functional unit including a motor is defective, the
 text only instructs you to replace the whole PWB or functional unit and does not give troubleshooting procedures applicable within the defective unit.
- All troubleshooting procedures contained herein assume that there are no breaks in the harnesses and cords and all connectors are plugged into the right positions.
- · The procedures preclude possible malfunctions due to noise and other external causes.

3. Precautions for Service

- Keep all disassembled parts in good order and keep tools under control so that none will be lost or damaged.
- After completing a service job, perform a safety check. Make sure that all parts, wiring and screws are returned to their original positions.
- Do not pull out the toner hopper while the toner bottle is turning. This could result in a damaged motor or locking mechanism.
- If the product is to be run with the front door open, make sure that the toner hopper is in the locked position.
- Do not use an air gun or vacuum cleaner for cleaning the ATDC Sensor and other sensors, as they can cause electrostatic damage. Use a blower brush and cloth. If a unit containing these sensors is to be cleaned, first remove the sensors from the unit.

4. Precautions for Dis/Reassembly

- Be sure to unplug the printer from the outlet before attempting to service the printer.
- The basic rule is not to operate the printer anytime during disassembly. If it is absolutely
 necessary to run the printer with its covers removed, use care not to allow your clothing
 to be caught in revolving parts such as the timing belt and gears.
- Before attempting to replace parts and unplug connectors, make sure that the power cord of the printer has been unplugged from the wall outlet.
- Be sure to use the Interlock Switch Actuating Jig whenever it is necessary to actuate the Interlock Switch with the covers left open or removed.
- While the product is energized, do not unplug or plug connectors into the circuit boards or harnesses.
- · Never use flammable sprays near the printer.
- A used battery should be disposed of according to the local regulations and never be discarded casually or left unattended at the user's premises.
- When reassembling parts, make sure that the correct screws (size, type) and toothed washer are used in the correct places.

5. Precautions for Circuit Inspection

- Never create a closed circuit across connector pins except those specified in the text and on the printed circuit.
- When creating a closed circuit and measuring a voltage across connector pins specified in the text, be sure to use the GND wire.

6. Handling of PWBs

During Transportation/Storage

- During transportation or when in storage, new P.W. Boards must not be indiscriminately removed from their protective conductive bags.
- Do not store or place P.W. Boards in a location exposed to direct sunlight and high temperature.
- When it becomes absolutely necessary to remove a Board from its conductive bag or case, always place it on its conductive mat in an area as free as possible from static electricity.
- Do not touch the pins of the ICs with your bare hands.
- · Protect the PWBs from any external force so that they are not bent or damaged.

During Inspection/Replacement

- Avoid checking the IC directly with a multimeter; use connectors on the Board.
- · Never create a closed circuit across IC pins with a metal tool.
- Before unplugging connectors from the P.W. Boards, make sure that the power cord has been unplugged from the outlet.
- When removing a Board from its conductive bag or conductive case, do not touch the pins of the ICs or the printed pattern. Place it in position by holding only the edges of the Board.
- When touching the PWB, wear a wrist strap and connect its cord to a securely grounded place whenever possible. If you cannot wear a wrist strap, touch a metal part to discharge static electricity before touching the PWB.
- Note that replacement of a PWB may call for readjustments or resetting of particular items

7. Handling of Other Parts

 The magnet roller generates a strong magnetic field. Do not bring it near a watch, floppy disk, magnetic card, or CRT.

8. Handling of the Imaging Cartridge

During Transportation/Storage

- The storage temperature is in the range between –20 °C and +40 °C.
- In summer, avoid leaving the Imaging Cartridge in a car for a long time.

Handling

• Store the Imaging Cartridge in a place that is not exposed to direct sunlight.

Precautionary Information on the PC Drum Inside the Imaging Cartridge

- Use care not to contaminate the surface of the PC Drum with oil-base solvent, fingerprints, and other foreign matter.
- Do not scratch the surface of the PC Drum.
- Do not attempt to wipe clean the surface of the PC Drum.

1-6. Safety information

(1) Laser Safety

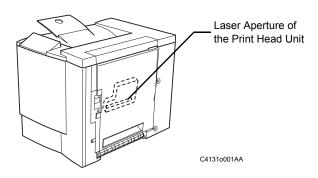
 This is a digital machine certified as a class 1 laser product. There is no possibility of danger from a laser, provided the machine is serviced according to the instruction in this manual.

(2) Internal Laser Radiation

semiconductor laser		
Maximum average radiation power(*) 4.68 μW		
Wavelength	770-795 nm	

^{*:}Laser power in surface of the PC Drum

- 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 SERVICE ITEM. Therefore, the print head unit should not be opened under any circumstances.



This figure shows the view inside the Top Cover with the Toner Cartridge and the Drum Cartridge removed.

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

- This machine is certified as a Class I 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 to page 13 indicates compliance with the CDRH regulations and must be attached to laser products marketed in the United States.

CAUTION

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

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

All Areas

CAUTION

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

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

Denmark

ADVARSEL

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

halvlederlaser		
Laserdiodens højeste styrke 5 mW		
bølgelængden	770-795 nm	

Finland, Sweden

LUOKAN 1 LASERLAITE KLASS 1 LASER APPARAT

VAROITUS!

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

puolijohdelaser		
Laserdiodin suurin teho 5 mW		
aallonpituus	770-795 nm	

VARNING!

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

halvledarlaser		
Den maximala effekten för laserdioden 5 mW		
våglängden	770-795 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

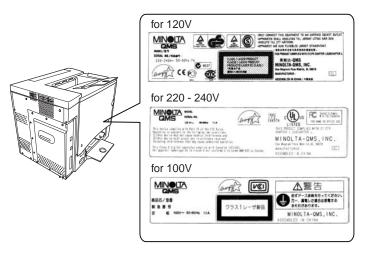
ADVERSEL

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

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

1-7. Laser Safety Label

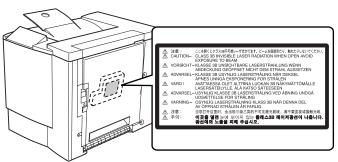
• A laser safety label is attached to the outside of the machine as shown below.



4131o003AA

1-8. Laser Caution Label

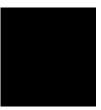
• A laser caution label is attached to the inside of the machine as shown below.



C4131s005AA

1-9. 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 premise.



GENERAL

1. Product Specifications

(1) Printer

(1) Printer	Dealton full color locar beam printer		
Туре	Desktop full-color laser beam printer		
Printing method	Electrophotographic (two-part imaging cartridge)		
Exposure method	Laser diode and polygon mirror scanning		
Print resolution	600 dpi (dots/inch)		
Media sizes	A5T, B5T, A4, Letter, Legal		
Media types	Plain paper (16-24 lb bond, 60-90 g/m2), recycled paper, overhead projector transparencies, letterheads, envelopes (Monarch, Com-10, DL, C5, C6, Chokei -3, Chokei -4), label sheets, thick paper (91-163 g/m2), government-standard postcards, postcard sheets, Japanese postcard, and return postcards		
First-page print time	Black-and-white printing: 14 sec.		
i iist-page piiit tiille	Color printing: 25 sec.		
Multi-page print speed	Black-and-white printing: 16 pages/min. (for A4- or Letter-size pages)		
	Color printing: 4 pages/min. (for A4- or Letter-size pages)		
Warm-up time	Within 180 seconds (at a room temperature of 23 °C and at the rated voltage)		
System speed	101.78 mm/sec.		
	1-way system (maximum 2-way); Expandable to 2-way system by installing the optional 2nd paper cassette		
Paper feed-in method	Manual feed tray (200 sheets of plain paper)		
	2nd paper cassette (500 sheets of plain paper) (2300 DL & 2350 only)		
Paper feed-out method	Face-down (tray capacity: 200 sheets)		
Drum-charging method	Comb electrode scorotron charger		
Developing method	Single-element developing system		
Image transfer method	Transport image transfer system		
PC drum	OPC (Organic Photoconductor)		
PC drum cleaning method	Blade system		
Paper separation method	Curvature separation + charge-neutralizing system		
Fusing method	Heated roller fusing system		
Dimensions	14.02 in.(356 mm) (W) x 19.69 in.(500 mm) (D) x 15.43 in. (392 mm) (H)		
Weight	55.1 lbs(25 kg) (without drum cartridge and toner cartridges)		
Weight (consumables)	62.4 lbs (28.3 kg) (including drum cartridge and toner cartridges)		
Rated power supply voltage	100 V / 120V / 220-240 V		
Frequency	50/60 Hz		
Maximum naura assessed ()	1100 W or less (100/120 V)		
Maximum power consumption	1100 W or less (220-240 V)		
	During stand-by: 39 dB (A) or less		
Operating noise	During printing: 54 dB (A) or less (color printing) 54 dB (A) or less (black-and-white printing)		

Operating environment	50-95° F (10-35°C)		
Operating environment	15 - 85%		
Drum cartridge life	45,000 pages (black/white ratio=5%)		
Toner cartridge life (purchased separately)	4,500 pages (black/white ratio=5%)		
	1,500 pages (black/white ratio=5%)		
Toner cartridge life (enclosed	Black: 1,500 pages (black/white ratio=5%)		
cartridge)	Color: 1,500 pages (color/white ratio for each color=5%)		
Ontions	Second paper cassette (2300 DL & 2350 only)		
Options	Duplex unit		

(2) Second paper cassette (Option)

Name	Second paper cassette (2300 DL & 2350 only)		
Paper	Plain paper (16 to 24 lbs.; 60-90 g/m2), recycled paper (16 to 24 lbs., 60-90 g/m2)		
Media sizes	A4, Letter		
Paper cassette capacity	500 sheets		
Paper separation mechanism	Paper separator system		
Power source	Supplied by main unit (DC24 V ±10%)		
Drive source	Supplied by main unit		
Dimensions	15 in. (380 mm) (W) x 20.1 in. (511 mm) (D) x 6.9 in. (176 mm) (H) (including the height of the right-side door)		
Weight	11.7 lbs. (5.3 kg)		

(3) Duplex unit

Name	Duplex unit		
Paper	Plain paper (16 to 24 lbs.; 60-90 g/m2)		
Media sizes	A4, Letter		
	Color printing: 2.0 pages/min. (A4- or Letter-size pages)		
Print speed (double-sided printing)	Black-and-white printing: 5.0 pages/min. (A4- or Letter-size pages)		
Document feeding capacity	A4/Letter: 2 pages (including the paper path of the paper feed- out section)		
Paper transfer baseline	Center baseline		
Power source	Supplied by main unit (DC24 V ±10%)		
Drive source	Supplied by main unit		
Dimensions	3.8 in. (97 mm) (W) x 13.4 in. (340 mm) (D) x 13 in. (330 mm) (H) (including the height of the right-side door)		
Weight	4.4 lbs. (2.0 kg)		

(4) Controller magicolor 2300DL (PWB-P)

CPU	D8405 200MHz
Memory configuration	Standard ROM: 4MB
Memory configuration	Standard RAM: 32MB
	Ethernet (10/100BASE-TX, RJ-45)
Standard I/F	IEEE1284 (Compatible/Nibble/ECP/EPP)
	USB Type B connector
Natural protocol	TCP/IP
Network protocol	DHCP, ARP/ICMP, BOOTP, SLP, IPP, HTTP, SNMP, LPR
	RAW Port Printing (9100)
Network print service	IPP1.0 (http://Printer IP address/ipp.cgi)
	LPD (Queue Name: lp, LP, default, DEFAULT)
Resolution	600 x 600 dpi, 1200 x 600 dpi, 2400 x 600 dpi
Printer Driver	OS: Windows 95/98/Me, Windows NT4.0, Windows 2000, Windows XP
Compatible clients:	
PC	IBM PC or compatible
CPU	CPU clock of 300 MHz or more recommended
	Minimum 36 MB
Hard disk free space	20 MB: Printer drive/Status display
	16 MB: Image processing area
RAM	At least 16 MB (Windows 95/98/NT4.0)
	At least 32 MB (Windows Me)
	At least 64 MB (Windows 2000 Professional)
	At least 128 MB (Windows XP Home Edition/Professional)
Browser	Either of the following browsers is required to use PageScope Light.
	Netscape Navigator Ver. 4.7 or later
	Internet Explorer ver5.0

(5) Controller magicolor 2350 (PWB-P)

CPU	IBM Mercury, Power PC 405, 200 Mhz processor core SOC, system bus speed of 100 Mhz		
Memory configuration	Boot ROM (512KB); 12MB Flash ROM (supports up to 24MB)		
	128 MB standard, upgreadeable to 384 MB via 1 DIMM slot		
Standard I/F	Ethernet (10/100BASE-TX, RJ-45)		
	IEEE1284 (Compatible/Nibble/ECP/EPP)		
	USB 1.1		
Optional I/F	Dongle (803.11b & Bluetooth) via parallel		
Optional Hard Disk	IDE Hard Disk Kit (includes daughterboard, hard disk and TOD clock); IDE Hard Disk Kit (without hard disk) for third party hard disks.		
Resident Emulations	PostScript 3, PCL 5, XL, PDF v. 1.3 (requires optional hard disk), Line printer		
Fonts	137 PostScript fonts, 90 PCL fonts (80 scalable & 10 bitmap)		
System Software	Upgradable via FLASH at initial release, later upgradeable via Mask ROM.		
Resolution	600 x 600 dpi, 1200 x 600 dpi, 2400 x 600 dpi		
Printer Driver	OS: Windows 95/98/Me, Windows NT4.0, Windows 2000, Windows XP		

(6) Controller magicolor 2300W (PWB-P)

CPU	N1-chip (Naltec original ASIC)	
Memory configuration	64 KB (In ASIC)	
	Standard RAM: 32MB	
Standard I/F	IEEE1284 (Compatible/Nibble/ECP)	
	USB Type B connector	
Resolution	600 x 600 dpi, 1200 x 600 dpi	
Printer Driver	OS: Windows 95/98/Me, Windows 2000, Windows XP	
Compatible clients:		
PC	IBM PC or compatible	
CPU	CPU clock of 300 MHz or more recommended	
Hard disk free space	Minimum 256 MB	
	128 MB: Printer drive/Status display	
	128 MB: Image processing area	
RAM	At least 16 MB (Windows 95/98)	
	At least 32 MB (Windows Me)	
	At least 64 MB (Windows 2000 Professional)	
	At least 128 MB (Windows XP Home Edition/Professional)	

2. Installation Precautions

2-1. Installation environment

To ensure safety and prevent possible malfunctions, install the unit in a location that meets the following requirements.

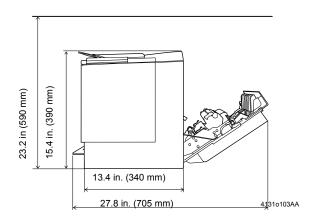
- A location that is not exposed to extremely high or low temperatures and not exposed to extremely high or low humidity.
- · A location that is not exposed to extreme changes in temperature or humidity.
- · A location that is not exposed to direct sunlight.
- A location out of the direct airflow of an air conditioner, heater or ventilation opening.
- A well-ventilated location that is not extremely dusty.
- A stable and level location that is not subjected to undue vibrations.
- · A location that is not near room heaters or any other heat-generating appliances.
- · A location away from volatile, combustible material (such as paint thinner or gasoline).
- A location that is not exposed to water or other liquids and where a short circuit of the unit is not likely.
- · A location that does not put people in the direct airflow of exhaust from the unit.
- · A location where ammonia gases are not generated.

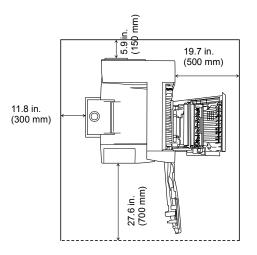
2-2. Installation power supply

- If other electrical equipment are plugged into the same electrical outlet, make sure that the current capacity is not exceeded.
- Use a power source with as little voltage fluctuations as possible.
- Only use an outlet expander or a table tap; never use extension cords.
- Be careful that the unit does not pinch or is not placed on top of power or transmission cords of other electrical equipment.
- · Periodically check that the following conditions are met:
 - *The power supply plug does not feel unusually warm.
 - *The power supply cord is free of cracks and scratches.
 - *The power supply plug is securely inserted into the electrical outlet.
 - *Pressure is not applied to the power supply cord.

2-3. Space requirements

•





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3. Operation Precautions

3-1. Ensuring the optimum performance of this unit

- · Never place heavy objects on the unit or subject it to shocks.
- · Make sure that the power supply plug is securely inserted into the electrical outlet.
- · Never remove secured panels or open doors of the unit while it is printing.
- · Never turn off the unit while it is printing.
- Always provide good ventilation when using the unit for a long period of time within a confined area.
- · Never use combustible sprays near the unit.
- If the unit becomes unusually warm or generates an unusual noise, immediately turn it
 off, and then unplug the power supply cord.
- Never turn on the unit at the same time that the power supply cord is being plugged in.
- · When unplugging the power supply cord, always grasp the plug, not the cord.
- · Never bring magnetized objects near the unit.
- · Never place vases or other containers filled with liquid on the unit.
- Be sure to turn off the unit if it is not to be used for a long period of time or if a power outage occurs.
- Never allow metal objects such as paper clips or staples to fall into the unit or any of its openings.

3-2. Operating environment

In order to ensure proper operation of the unit, make sure that the operating environment meets the following conditions:

- Temperature: 50-95° F (10-35 °C)
- · Humidity: 15-85% Rh
- Temperature fluctuation: ±18° F (10 °C) per hour
- Humidity fluctuation: ±20% Rh per hour

3-3. Power supply requirements

In order to ensure proper operation of the unit, make sure that the power supply meets the following conditions:

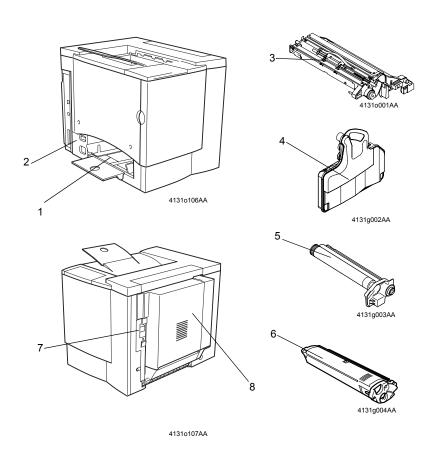
- Voltage fluctuation ±10% of the specified voltage
- Frequency fluctuation ±3 Hz%
- In order to reduce the risk of electric shock in the event of a short circuit, the ground wire
 must be connected.
- Attach the ground wire to the ground terminal of the electrical outlet or to a ground connection that complies with local electrical standards.
- Never connect the ground wire to a gas pipe, a telephone ground connection, a lightning rod or a water pipe, otherwise a fire or electric shock may occur.

3-4. Other precautions

When servicing a machine equipped with a laser beam, observe the following precautions:

- When servicing parts in the path of the laser beam (near the print head or PC drum), be sure to first unplug the power supply cord of the unit.
- When you are required to service the unit with the power supply cord plugged in, be sure to strictly observe the following precautions:
- Before performing any service procedures, be sure to remove any reflective accessories such as watches and rings, and wear laser protective goggles.
- 2. Be sure that nobody is nearby while you perform the service operations.
- 3. Do not bring highly reflective tools into the path of the laser beam.

3-5. Parts Identification

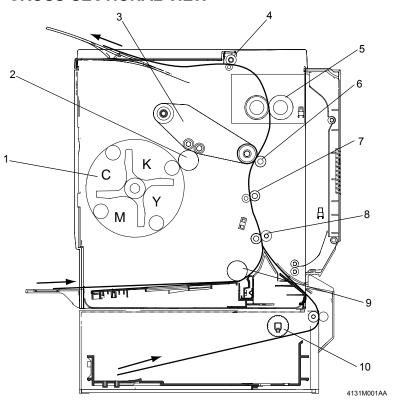


- 1. Manual feed tray
- 2. Power switch
- 3. Image transfer belt unit
- 4. Waste toner bottle
- 5. Drum cartridge
- 6. Toner cartridge
- 7. Right-side door release lever
- 8. Duplex unit (optional)



MECHANICAL/ ELECTRICAL

1. CROSS-SECTIONAL VIEW



- 1. Toner Cartridge Rack
- 2. PC Drum
- 3. Image Transfer Belt Unit
- 4. Exit Roller
- 5. Fusing Roller
- 6. Second Image Transfer Roller
- 7. Synchronizing Roller
- 8. Transport Roller
- 9. Paper Take-Up Roller
- 10. Second Paper Take-Up Roller

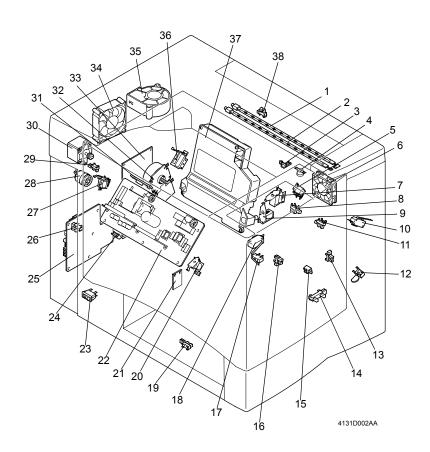
* Paper Path

The printer has a Multi-Purpose Tray (MPT) capable of holding up to 200 sheets of paper. Paper feeding becomes a two-way system by mounting an optional feeder unit.

The paper pulled by the Paper Take-Up Roll is transported by the Transport Roller, Synchronizing Roller, Second Image Transfer Roller, Fusing Roller, and the Exit Roller and fed out of the printer.

2. ELECTRICAL COMPONENTS LAYOUT

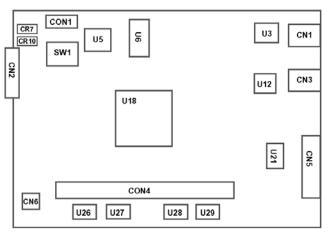
(1) Printer



- 1. Fusing Roller Heater Lamp (H1)
- 2. Fusing Pressure Roller Heater Lamp (H2)
- 3. Thermistor (TH1)
- 4. Thermostat (TS1)
- 5. Second Image Transfer Roller Pressure Contact Solenoid (SL5)
- 6. Fusing Cooling Fan Motor (M5)
- 7. Synchronizing Roller Solenoid (SL3)
- Fusing Paper Loop Detecting Sensor (PC11)
- 9. Transport Roller Solenoid (SL2)
- 10. Right Door Switch (S3)
- 11. Paper Transport Sensor (PC12)
- 12. Waste Toner Bottle Set Switch (S5)
- 13. Second Image Transfer Roller Pressure Positioning Sensor (PC7)
- Waste Toner Full Detecting Sensor (PC6)
- 15. OHP Detecting Sensor (PC3A)
- 16. Synchronizing Roller Sensor (PC2)
- 17. Laser Safety Switch (S4)
- 18. Front Door Switch (S2)
- Manual Feed Paper Empty Sensor (PC1)
- 20. Manual Feed Paper Take-Up Solenoid (SL1)
- 21. Temperature/Humidity Sensor (HS1)
- 22. Power Unit (PU)
- 23. Power Switch (S1)
- 24. Toner Cartridge Detecting Sensor (PC8)
- 25. High Voltage Unit (HV)
- 26. Rack Home Position Sensor (PC4)
- 27. Belt Cleaner Separation Solenoid (SI 4)
- 28. Rack Clutch (CL1)

- 29. Belt Cleaner Positioning Sensor (PC9)
- 30. Rack Motor (M2)
- 31. AIDC Sensor (AIDC)
- 32. Main Motor (M1)
- 33. Master Board (PWB-A)
- 34. Power Supply Cooling Fan Motor (M4)
- 35. Ventilation Fan Motor (M6)
- 36. Fusing Paper Loop Solenoid (SL6)
- 37. Print Head Unit (PH)
- 38. Exit Sensor (PC10)

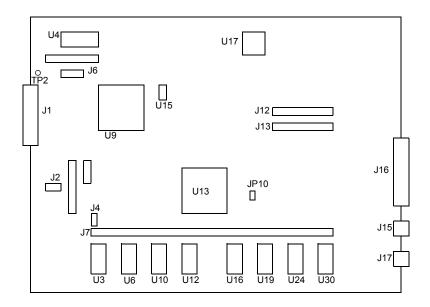
(2) 2300DL Controller



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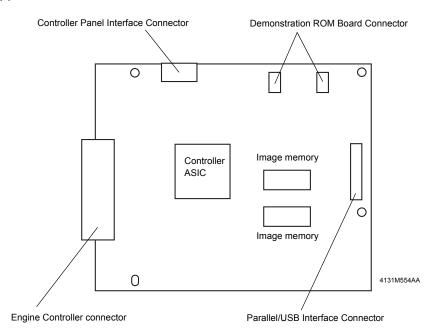
Symbol	Item	Explanation	
U18	CPU	Destiny D8405 200 MHz controller control CPU	
U26, U27, U28, U29	SDRAM	8-MB memory chip, a total of 32 MB standard memory	
CON4	Expansion slot	68-pin SD-RAM add-on memory (128, 256 MB, PC100/ 133 CL3)	
CN1	Connector	10/100Base-T Ethernet RJ45 connector	
U3	IC	Ethernet Controller	
CN3	Connector	USB connector	
U12	IC	USB Controller	
CN5	Connector	IEEE1284 Parallel Connector	
U21	IC	Parallel buffer	
U6	IC	System data storage ROM (4 MB)	
U5	ASIC	JBIG compressed image processing	
CON1	Connector	Controller Panel expansion connector	
CN2	Connector	Engine Controller connector	
		Not Used (Always OFF)	
SW1	Dip SW	Not Used (Always OFF)	
SWI		3. ON: A4, OFF: Letter	
		4. ON: A4, OFF: Letter	
CR7	LED	For 5 V voltage check	
CR10	LED	For 3.3 V voltage check	
CN6	Connector	Video signal connector	

(3) 2350 Controller



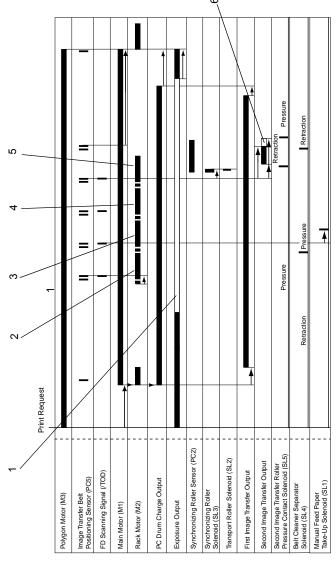
Symbol	Item	Explanation
U13	CPU	200 MHz Power PC 405 CPU
U3, U6, U10, U12, U16, U19, U24, U30	SDRAM	A total of 128 MB standard memory
J7	Expansion slot	68-pin SD-RAM add-on memory (128, 256 MB, PC100/ 133 CL3)
J15	Connector	10/100Base-T Ethernet RJ45 connector
J16	Connector	IEEE1284 Parallel Connector
J17	Connector	USB connector
JP10	Jumper	DIAG test point
J2	Jumper	DEBUG test point
J1	Connector	Engine I/F
TP2	Test Point	5V
J12	Connector	PCI Daughterboard Card Bus
J13	Connector	PCI IDE Hard Drive Card Bus
U9	IC	FPGA1
U15	IC	FPGA PROM
U17	IC	DSFL PROM
J6	Connector	Controller Panel connector
J4	Connector	Printhead Video signal connector
U4	Socket	Empty PROM Socket

(4) 2300W Controller



3. OPERATING SEQUENCE

* Conditions: A4 plain paper, full-color printing



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C development Bk development Paper trailing edge voltage

4. 7. 0.

Outside image area illumination

Y development M development

4. IMAGE STABILIZATION CONTROL

 The printer provides the image stabilization control as detailed below to ensure stabilized print image.

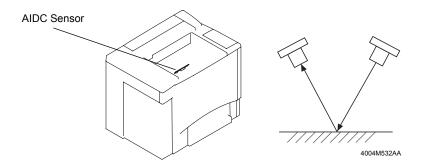
Purpose	Control	Control (Sensor)	
To stabilize image densityTo stabilize gradation	AIDC control	AIDC Sensor (AIDC detection)	
 To stabilize image transfer 	Image transfer output control	Temperature/Humidity Sensor	

4-1. AIDC Detection

The amount of toner sticking to the Image Transfer Belt is measured and color reproducibility is stabilized.

Amount of Toner Sticking	Intensity of Light Reflected	Output	
Large	Low	Small	
Small	High	Great	

- 1. A light-emitting diode is used to emit infrared rays that illuminate the toner pattern on the Image Transfer Belt.
- The photo receiver detects the intensity of the infrared light reflected off the toner pattern on the Image Transfer Belt.
- 3. A voltage corresponding to the intensity of the reflected light is output to the Master Board (PWB-A).



4-2. Outline of AIDC Control

• The following AIDC controls are provided to ensure image stabilization.

Control	Description
Ds correction control	Sets the developing bias.
LED intensity adjustment control	Adjusts the intensity of the LED light.
Belt surface (on which no toner sticks) reflection factor measurement control	- Used for corrections for the laser intensity and $\boldsymbol{\gamma}$ correction control.
Solid image toner amount control	 Maintains a given amount of toner sticking to the surface of the PC Drum.
Laser intensity adjustment control	 Ensures constant reproduction of black and white lines. Adjusts the intensity of the laser light to ensure a constant amount of toner consumed.
• γ correction control	Makes a gradation correction by means of the control- ler

(1) Ds correction control

· Sets a developing bias optimum to prevent foggy print or uneven density.

(2) LED intensity adjustment control

Adjusts the intensity of the LED light of the AIDC sensor to ensure a constant output
value on the surface of the Image Transfer Belt (no toner area). This controls variations
in characteristics of the belt caused by change with time or contamination of the sensor.

(3) Belt surface (no toner area) reflection factor measurement control

 Measures variations in the reflection factor caused by change with time of the Image Transfer Belt for use for corrections in the laser intensity control and γ correction control.

(4) Solid image toner amount control

 Adjusts the pulse width ratio of the developing bias to keep constant the amount of toner sticking to the surface of the PC Drum for a 100% solid image.

(5) Laser intensity adjustment control

 Adjusts the intensity of the laser light to ensure constant reproduction of black and white lines and constant toner consumption characteristics with changes in characteristics of PC Drum, developing, and drum charging and in durability.

(6) γ correction control

Makes a gradation correction by producing a pattern on the Image Transfer Belt, measuring the image density of the pattern with the AIDC Sensor, and sending the measurement results to the controller.

Operation Timing 4-3.

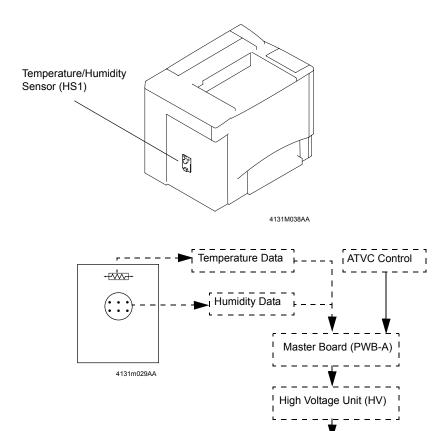
• A specific function of image stabilization control is carried out as required according to the situation.

Operating Timing	Processing		
When a new Image Transfer Belt is detected When a new Drum Cartridge or Toner Cartridge is detected When the environment changes When 1,000 printed pages have been produced*1	А	• Ds correction control -> LED intensity adjustment control -> Belt surface reflection factor measurement control -> Solid image toner amount control -> Laser intensity adjustment control -> γ correction control	
When 200 printed pages have been produced*2	В	Solid image toner amount control -> Laser intensity adjustment control -> γ correction control	
When the processing is com- manded from the Control Panel	С	• γ correction control	

^{* 1:} When 1,000 printed pages have been produced after A has been performed last.
* 2: When 200 printed pages have been produced after A and B have been performed last.

4-4. Temperature/Humidity Sensor

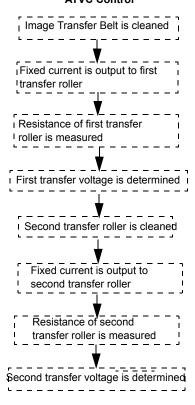
 The bias voltage is determined based on the value calculated through ATVC (Auto Transfer Voltage Control) and by the Temperature/Humidity Sensor (environment).

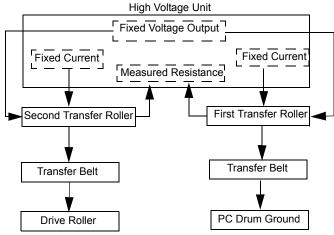


Second Image Transfer Bias

4-5. ATVC (Auto Transfer Voltage Control

Adjusts the transfer bias voltage based on the age and cleanliness of the transfer rollers.
 ATVC Control





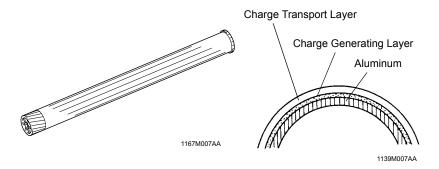
5. DRUM CARTRIDGE

5-1. PC Drum

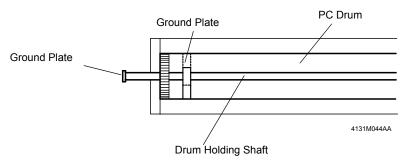
- The photoconductive drum used in this printer is the organic photo conductor (OPC) type.
- * This is the PC Drum consisting of the Charge Generating Layer and the Charge Transport Layer applied to an aluminum alloy base.

Handling Precaution

The PC Drum exhibits light fatigue after being exposed to light for a long time, which results in its sensitivity being changed. Always wrap the drum in the PC Drum Cloth or a soft cloth immediately after it has been removed from the printer. Use utmost care to protect the surface of the PC Drum from contamination.

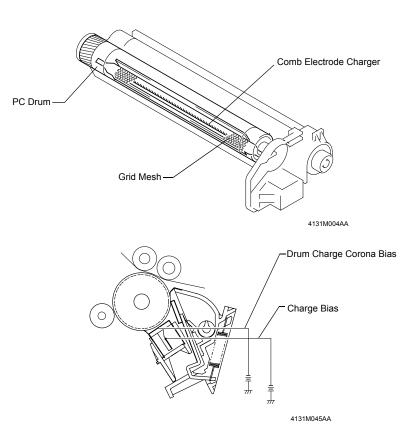


- · Grounding of the PC Drum
- * The PC Drum ground point is located inside, and in the rear of, the PC Drum. It is in constant contact with the Drum Holding Shaft. When the Drum Cartridge is installed in the printer, the Drum Holding Shaft contacts the ground plate in the printer. This provides for assured grounding of the PC Drum through the ground point, Drum Holding Shaft, and ground plate to the frame of the printer.



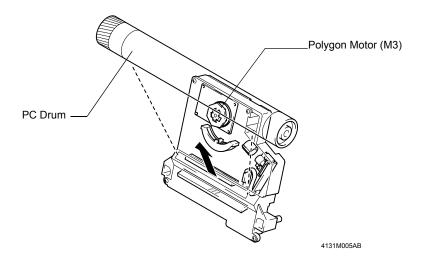
5-2. PC Drum Charging

- The PC Drum Charge Corona employs a comb electrode Scorotron charger system.
- It generates corona emission to deposit a charge evenly across the surface of the PC Drum through a grid mesh.
- The comb electrode ensures that a charge is concentrated on the grid mesh, thus reducing the amount of ozone produced.



6. LASER EXPOSURE

An electrostatic latent image is formed on the surface of the PC Drum by a laser light emitted from the print head.



(1) FD Direction (vertical scanning direction)

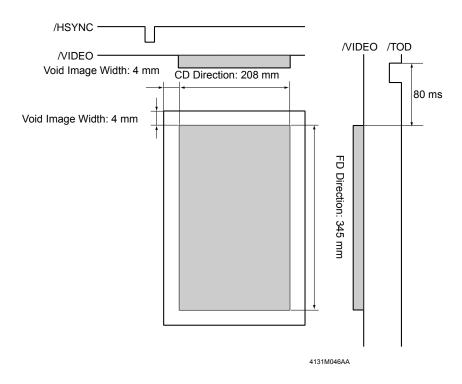
- The Polygon Motor and Main Motor are energized by the PRINT signal, which starts a paper take-up sequence.
- The printing action in the FD direction is started when the Image Transfer Belt Positioning Sensor is activated.

(2) CD Direction (horizontal scanning direction)

 The printing action in the CD direction is started by the SOS signal sent from the Laser Control Board.

(3) Print Area

• The figure below shows the print area in the FD and CD direction.



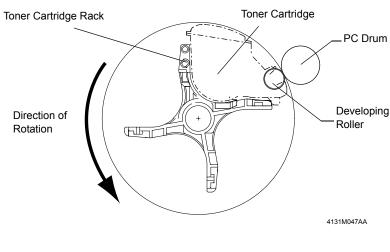
7. DEVELOPING UNIT

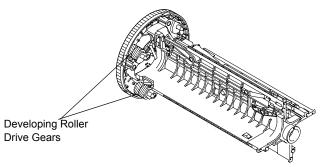
(1) Toner Cartridge Rack

When printing in each of the four different colors of toner, the Toner Cartridge Rack is rotated to bring the Toner Cartridge of the corresponding color of toner (K, Y, M, or C) to the developing position.

(2) Drive for the Toner Cartridge Rack

• The Toner Cartridge Rack is driven by the Rack Motor (M2) and Rack Clutch.

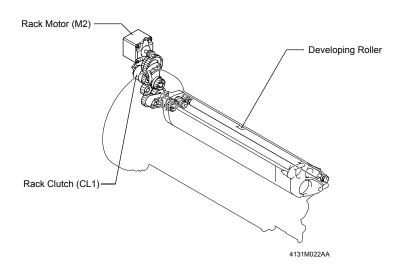




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(3) Drive for the Developing Roller

- The Developing Roller is driven by the Rack Motor (M2) and the Developing Roller Drive Gears.
- When the Toner Cartridge Rack is stopped at the developing position, the Developing Roller is rotated by a drive from the Rack Motor (M2) transmitted with the Developing Roller Drive Gears.



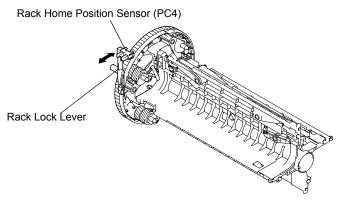
7-1. Developing Position

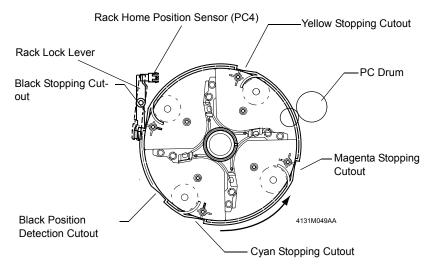
(1) Toner Cartridge Rack Stop Position for Development

- The stop position for development of each Toner Cartridge is determined by the Rack Lock Lever and the Rack Home Position Sensor (PC4).
- The Toner Cartridge Rack rotates and the Rack Lock Lever drops into a stopping cutout.
 This unblocks the Rack Home Position Sensor (PC4), thus determining the stop position for the Toner Cartridge for the current use.

(2) Toner Cartridge Rack Standby Position

- The standby position (reference position) of the Toner Cartridge Rack is 20° ahead of the developing stop position of the black Toner Cartridge.
- When the Toner Cartridge Rack rotates and the Rack Lock Lever moves past the black position detection cutout (PC4: blocked -> unblocked), the rotating speed of the rack is decelerated.

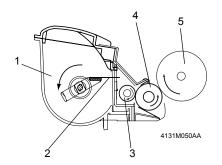


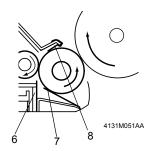


Toner Cartridge 7-2.

(1) Construction

• The Toner Cartridge is constructed as illustrated below.





- Toper Hopper
 Toner Agitating Plate
 Toner Transport Roller
- Developing Roller
 PC Drum

- 6. First Regulator Blade7. Second Regulator Blade
- 8. Bias Seal

(2) First Regulator Blade / Second Regulator Blade

· Regulates the amount of toner supplied to the Developing Roller.

(3) Developing Roller

· Carries toner, whose amount has been regulated by the Regulator Blades.

(4) Developing Bias

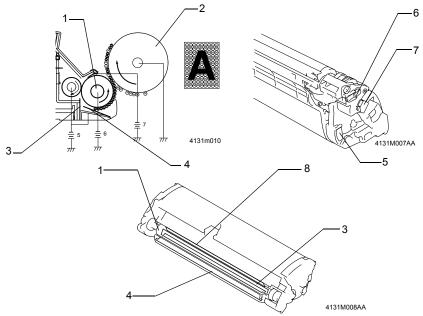
 Applied to the Developing Roller to ensure that an adequate amount of toner is fed to the PC Drum.

(5) Toner Empty Detection

- Toner consumption is calculated from image data for toner empty detection.
- When a toner-empty condition is detected, the corresponding message is displayed on the control panel.

(6) Bias Seal

· Recovers toner that has not stuck to the PC Drum.

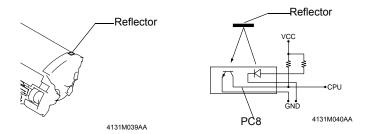


- 1. Developing Roller
- 2. PC Drum
- 3. First Regulator Blade
- 4. Second Regulator Blade
- 5. Regulator Blade Bias
- 6. Developing Bias
- 7. Developing Seal Bias
- 8. Bias Seal

(7) Toner Cartridge Installation Detection

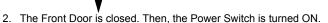
• Toner Cartridge installation detection is made with the Toner Cartridge Detection Sensor (PC8) and the Reflector in the Toner Cartridge.

Detection		Intensity of Light Reflected
	No Cartridge installed	NO
	Cartridge installed	YES



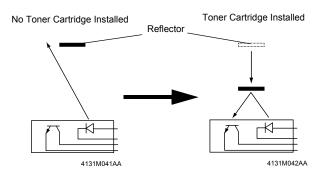
(8) Detection of a brand new Toner Cartridge

1. A brand new Toner Cartridge is installed.



- 3. The Toner Cartridge Rack is rotated to bring the Toner Cartridge at the developing position.
- 4. The Toner Cartridge Detection Sensor (PC8) detects whether or not the Toner Cartridge is installed.
- The Toner Cartridge Detection Sensor judges that no Toner Cartridge is installed, since no light reflection is made with the Reflector placed under the Cover in the brand new Toner Cartridge.
- 6. The toner Cartridge, which is detected as "not installed," is stopped at the developing position. Then, the Developing Roller is rotated.
- 7. The Reflector placed under the Cover is pushed out in the Toner Cartridge with a rotation of the Developing Roller. The Toner Cartridge Detection Sensor detects that the Toner Cartridge is installed with the light reflection from the Reflector.
- Other Toner Cartridges are stopped at the developing position respectively. If the Cartridge is a brand new, sequences from 4 through 7 are repeated for each Color Toner Cartridge.

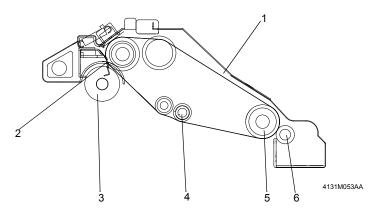
According to the above-mentioned sequential operation, the Toner Cartridge is detected as a brand new one.



8. **IMAGE TRANSFER**

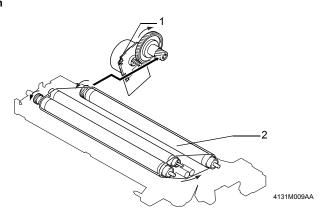
Image Transfer Belt Unit 8-1.

(1) Construction



- 1. Image Transfer Belt
- Cleaning Blade
 Waste Toner Conveying Coil
- 4. First Image Transfer Roller
- 5. Drive Roller
- 6. Second Image Transfer Roller

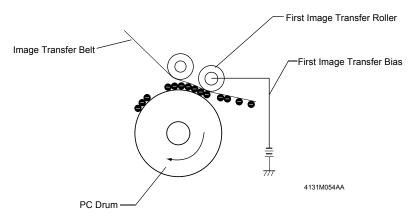
(2) Drive Train



- 1. Main Motor (M1)
- 2. Drive Roller

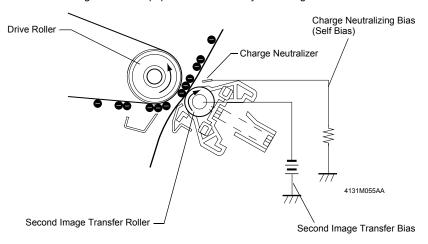
(3) First Image Transfer

• The first image transfer bias is applied to the First Image Transfer Roller to transfer the toner image on the surface of the PC Drum onto the Image Transfer Belt.



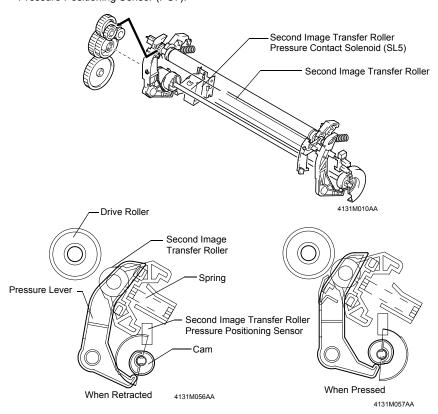
(4) Second Image Transfer

- The second image transfer bias is applied to the Second Image Transfer Roller to transfer the toner image on the Image Transfer Belt onto the paper.
- The residual charge left on the paper is neutralized by the Charge Neutralizer.



(5) Second Image Transfer Roller Pressure/Retraction

- The Second Image Transfer Roller is pressed against, and retracted from, the Image Transfer Belt by a cam on the printer side that is turned as the Second Image Transfer Roller Pressure Contact Solenoid (SL5) is energized or de energized.
- When the Second Image Transfer Roller Pressure Contact Solenoid (SL5) is energized, the cam on the printer side turns, causing the Pressure Lever to move the Second Image Transfer Roller away from the Image Transfer Belt.
- The pressure and retracted positions are detected by the Second Image Transfer Roller Pressure Positioning Sensor (PC7).



(6) Second Image Transfer Roller Pressure/Retraction Timing

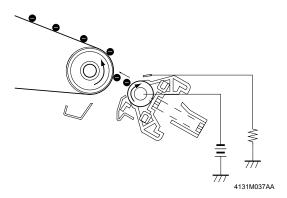
Pressed	Before the paper reaches the Second Image Transfer Roller
Retracted	After the trailing edge of the paper has moved past the Second Image Transfer Roller

8-2. Second Image Transfer Roller Cleaning

- A reverse bias is applied to the Second Image Transfer Roller to remove any residual toner left on the roller.
- The residual toner is transferred onto the Image Transfer Belt and then recovered by the Cleaning Blade.

(1) Operating Timing

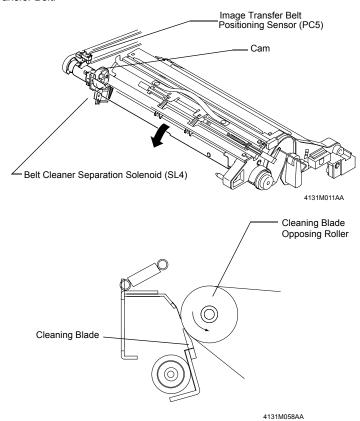
- After the lapse of a given period of time during pre-drive.
- After the paper moves past the Second Image Transfer Roller when a media error occurs.
- · Before the second image transfer ATVC.



8-3. Image Transfer Belt Cleaning Mechanism

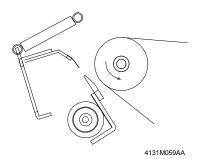
(1) Image Transfer Belt Cleaning Blade

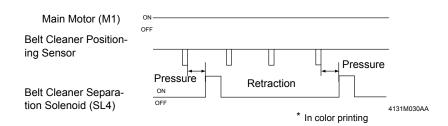
• The Cleaning Blade is used to scrape any residual toner off the surface of the Image Transfer Belt.



(2) Image Transfer Belt Cleaning Blade Retraction

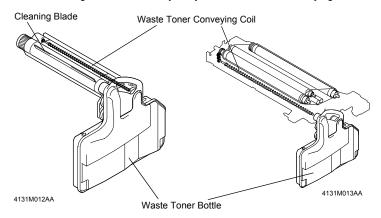
- The Image Transfer Belt Cleaning Blade is retracted from the Opposing Roller by a cam on the printer side that turns as the Belt Cleaner Separation Solenoid (SL4) is energized or deenergized.
- The cam on the printer side is made into direct contact with the Cleaning Blade housing so that the Cleaning Blade is retracted.
- The Image Transfer Belt Cleaning Blade is detected at its retracted position when the cam turns to deactivate the Belt Cleaner Positioning Sensor (PC9).





8-4. Waste Toner Bottle

- Waste toner on the PC Drum and the Image Transfer Belt is collected.
- The waste toner sticking to the surface of the PC Drum is scraped off by the Cleaning Blade and conveyed by the Waste Toner Conveying Coil.
- The waste toner left on the surface of the Image Transfer Belt is scraped off by the Image Transfer Belt Cleaning Blade and conveyed by the Waste Toner Conveying Coil.



8-5. Waste Toner Bottle Detection

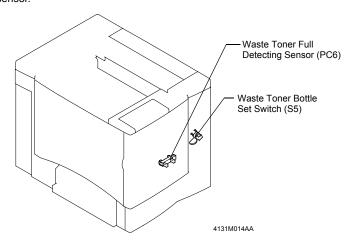
(1) Waste Toner Bottle Detection

• The Waste Toner Bottle Set Switch (S5) detects whether or not the Waste Toner Bottle is installed in the printer.

(2) Waste Toner Full Detection

The Waste Toner Full Detecting Sensor (PC6) detects that the Waste Toner Bottle is full of waste toner.

 A waste toner full condition is detected when waste toner in the Waste Toner Bottle blocks the sensor.

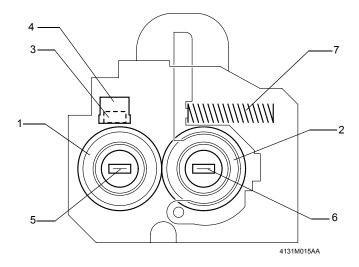


9. FUSING SECTION

9-1. Fusing Unit

(1) Overview

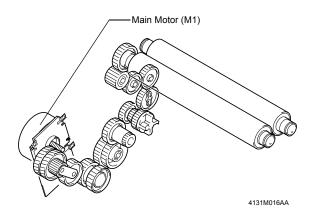
- Toner transferred onto the paper through the image transfer process is permanently fixed onto the paper.
- The fusing system employed in the printer is a heat roller method, in which the Fusing Roller heated by a heater lamp is pressed against the Fusing Pressure Roller and, by feeding the paper between these two rollers, toner is fused onto the paper.



- 1. Fusing Roller
- 2. Fusing Pressure Roller
- 3. Thermistor (TH1))
- 4. Thermostat (TS1)
- 5. Fusing Roller Heater Lamp (H1)
- 6. Fusing Pressure Roller Heater Lamp (H2)
- 7. Pressure Spring

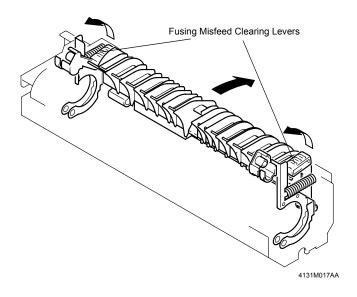
(2) Drive

• The Fusing Unit is driven by the Main Motor (M1).



(3) Fusing Roller Pressure

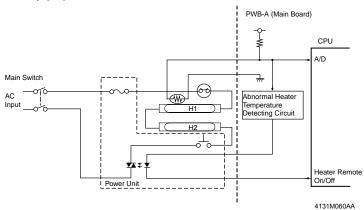
- The Fusing Roller and the Fusing Pressure Roller are pressed against each other at all times. They are released for maintenance service or replacement of parts.
- When a paper misfeed occurs in the Fusing Unit, the Fusing Misfeed Clearing Levers are pulled upward to release pressure between the two rollers.



9-2. Fusing Temperature Control

(1) Fusing Temperature Control Circuit

- The resistance of the Thermistor (TH) mounted to the Fusing Roller varies with temperature. The higher the temperature, the smaller the resistance value. The output from the Thermistor (TH) is applied to the analog port of the CPU.
- When the temperature increases and the resistance of the Thermistor (TH) decreases, the input voltage to the analog port becomes smaller.
- The CPU monitors the output from the Thermistor and turns ON or OFF the Heater Lamp as necessary to control the temperature of the Fusing Roller.
- To energize the Fusing Roller Heater Lamp (H1), the CPU turns ON (LOW) the Heater Remote output signal. This turns ON the triac in the Power Unit, which allows an AC voltage to be applied to the Fusing Roller Heater Lamp (H1) to heat it.
- When the temperature of the Fusing Roller runs inordinately high, the Abnormal Heater Temperature Detecting Circuit is activated to shut down power to the Fusing Roller Heater Lamp (H1).



(2) Fusing Temperature Control

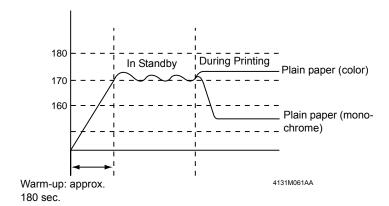
- The temperature control as detailed below is provided by means of the Fusing Roller Heater Lamp (H1) and the Fusing Pressure Roller Heater Lamp (H2).
- The surface temperature of the Fusing Roller is converted by the Thermistor (TH1) to a corresponding electrical signal.
- 1. Warm-up Control
- The temperature during the warm-up cycle is set at 170°.
- When the temperature of the Fusing Roller reaches this set temperature, both the Fusing Roller Heater Lamp (H1) and the Fusing Pressure Roller Heater Lamp (H2) are turned OFF.
- 2. Temperature Control in Standby State
- The temperature in the standby state is set at 171°.
- 3. Temperature Control during Printing (monochrome printing)
- · The temperature during printing is set as follows.

	Plain paper	Thick paper postcards	OHP transparen- cies	Envelopes	Small size*
Set tempera- ture	157°	157°	157°	166°	152°

- * Small-size paper: Plain paper whose length is 226 mm or less
- 4. Temperature Control during Printing (color printing)
- · The temperature during printing is set as follows.

	Plain paper	Thick paper postcards	OHP transparen- cies	Envelopes	Small size*
Set temperature	174°	174°	166°	166°	169°

* Small-size paper: Plain paper whose length is 226 mm or less



10. PAPER TAKE-UP SECTION

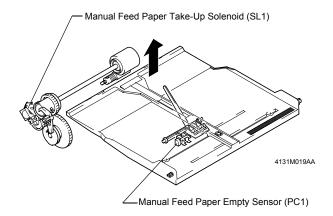
10-1. Manual Feed Tray

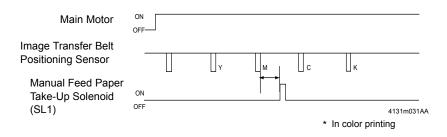
(1) Paper Take-Up Mechanism

- The Manual Feed Tray consists of a Paper Take-Up Roll, Paper Lifting Plate, and the Manual Feed Paper Take-Up Solenoid (SL1).
- When the Manual Feed Paper Take-Up Solenoid (SL1) is energized, the cam turns. At the same time, the Paper Lifting Plate raises the tray and the paper on the tray is taken up by the Paper Take-Up Roll and fed into the printer.

(2) Paper Empty Detection

- There is the Manual Feed Paper Empty Sensor (PC1) provided on the underside of the Manual Feed Tray. It detects a paper-empty condition of the Manual Feed Tray.
- When there is paper, the actuator is lowered to unblock the sensor.
- When there is no paper, the actuator is raised to block the sensor.





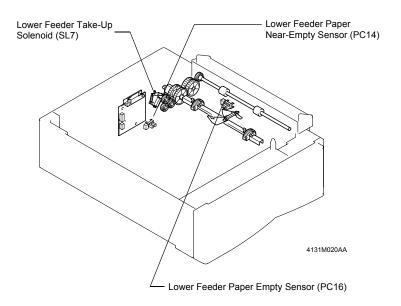
10-2. Lower Feeder Unit (Option)

(1) Paper Take-Up Mechanism

- Since there is no drive motor installed, the drive for paper take-up and transport (supplied from M1) is transmitted through a drive coupling gear from the printer.
- The same paper take-up mechanism is employed as that of the Multi-Purpose Tray, except that paper separator fingers are used, instead of the separator roll with a torque limiter, for paper separation.
- The Lower Feeder Take-Up Solenoid (SL7) is controlled from the printer through the Lower Feeder Control Board (PWB-A) of the Lower Feeder Unit.

(2) Paper Empty Detection

- A paper-empty condition is detected by the Lower Feeder Paper Empty Sensor (PC16).
- When there is paper, the actuator is raised to block the sensor.
- · When there is no paper, the actuator is lowered to unblock the sensor.



(3) Lower Feeder Paper Near-Empty Sensor (PC14)

- A paper near-empty condition is detected by the Lower Feeder Paper Near-Empty Sensor.
- A paper near-empty condition is equivalent to the following number of sheets of paper left in the tray.

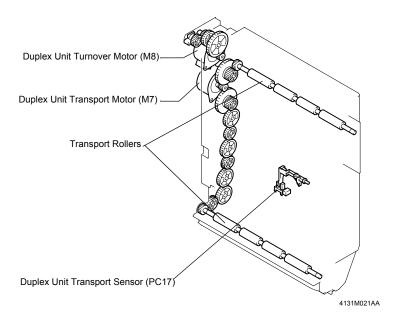
	Specifications
Near-empty detection	50 +/- 25 sheets

11. OTHER MECHANISMS

11-1. Duplex Unit (Option)

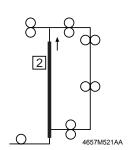
(1) Drive

- The drive for the Duplex Unit works as follows. The paper having a printed image on its
 one side is temporarily fed toward the Exit Tray and, as soon as the trailing edge of the
 paper moves past the guide plate before the Exit Roller, the Exit Roller is turned backward so that the paper is fed into the Duplex Unit.
- The drive for the Exit Roller is disconnected from the printer when the Duplex Unit is
 mounted on the printer and, instead, it is provided by the Duplex Unit Turnover Motor of
 the Duplex Unit.
- The Transport Rollers of the Duplex Unit are driven by the Duplex Unit Transport Motor.
- The paper is transported to the printer by the Transport Rollers.

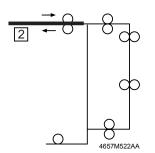


(2) Paper Feeding Method

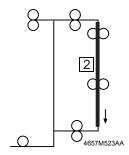
1. Operations in 2-sided printing with a single sheet of paper resident in, and circulated through, the system



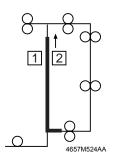
(1) Paper is taken up and fed in and the image on page 2 of the print job is printed.



- (2) The paper is temporarily fed toward the exit section and, immediately before the paper leaves the Exit Roller, the direction of rotation of the Exit Roller is switched.
- (3) The paper is transported into the Duplex Unit.



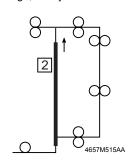
(4) The paper in the Duplex Unit is temporarily stopped at the Duplex paper take-up position.



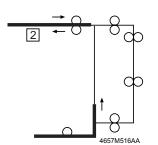
- (5) The image on page 1 of the print job is printed on the paper that is taken up from the Duplex Unit.
- (6) The first paper is fed out of the printer.

* Steps from (2) to (6) are hereafter repeated.

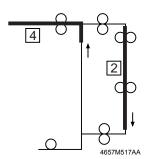
2. Operations in 2-sided printing with two sheets of paper resident in, and circulated through, the system:



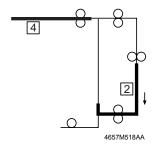
(1) The first sheet of paper is taken up and fed in and the image on page 2 of the print job is printed.



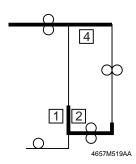
- The first sheet of paper is temporarily fed toward the exit section and, immediately before the paper leaves the Exit Roller, the direction of rotation of the Exit Roller is switched.
- (3) The first sheet of paper is transported into the Duplex Unit.
- (4) At the same time, the second sheet of paper is taken up and fed in.



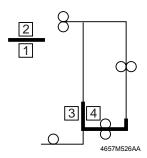
- (5) The first sheet of paper in the Duplex Unit is temporarily stopped at the Duplex paper takeup position.
- (6) The image on page 4 of the print job is printed on the second sheet of paper.



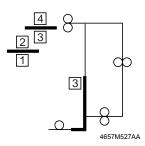
- The first sheet of paper is taken up from the Duplex Unit.
- (8) The second sheet of paper is temporarily fed toward the Exit Tray and, immediately before the paper leaves the Exit Roller, the direction of rotation of the Exit Roller is switched.



- (9) The image on page 1 of the print job is printed on the first sheet of paper.
- (10) The second sheet of paper is transported into the Duplex Unit.



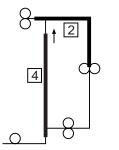
(11) At the same time that the first sheet of paper is fed out of the printer, the image on page 3 is printed on the second sheet of paper.



(12) At the same time that the second sheet of paper is fed out of the printer, the third sheet of paper is taken up and fed in and the image on page 6 is printed on the third sheet of paper.

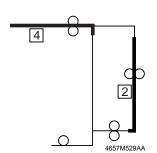
* Steps from (2) to (12) are hereafter repeated.

3. Operations in 2-sided printing with two sheets of paper resident in the system and with a new sheet of paper taken up when a printed page with images printed on both sides is fed out

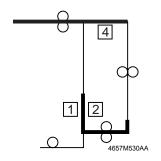


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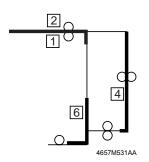
- (1) The first sheet of paper is taken up and fed in and the image on page 2 of the print job is printed.
- (2) The first sheet of paper is temporarily fed toward the exit section and, immediately before the paper leaves the Exit Roller, the direction of rotation of the Exit Roller is switched.
- 3) The first of paper is fed in the duplex unit.
- (4) At the same time that the second sheet of paper is taken up and page4 is printed.



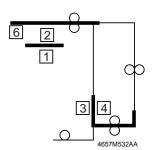
- (5) The first sheet of paper is stopped at take-up position.
- (6) The second sheet of paper is fed in exit section.



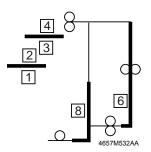
- (7) The image on page 1 of the print job is printed on the first sheet of paper.
- (8) The second sheet of paper is immediately before the paper leaves the Exit Roller, the direction of rotation of the Exit Roller is switched.
- (9) The second sheet of paper fed in the duplex unit.



- (10) The first sheet of paper fed out in exit tray.
- (11) At the same time the third sheet of paper is taken up and fed in.
- (12) The second of sheet of paper stopped at takeup position.



- (13) The image on page 3 is printed on the second sheet of paper.
- (14) The third sheet of paper is immediately before the paper leaves the Exit Roller the direction of rotation of the Exit Roller is switched.
- (15) The third sheet of paper fed in the Duplex Unit.



- (16) The second sheet of paper fed out in Exit Tray.
- (17) At the same time the fourth sheet of paper is taken up and fed in.
- (18) The third sheet of paper stopped at take-up position.

* Steps from (13) to (18) are hereafter repeated.



MAINTENANCE & DISAS-SEMBLY/ASSEMBLY

81

1. Disassembly/Assembly Precautions

1-1. Precautions for disassembly and assembly

- Unplug the power cord from the electrical outlet before servicing the printer.
- Reassemble the unit in reverse order of disassembly unless otherwise instructed.
- If it is necessary to run the printer with its covers removed, use extreme care to avoid catching your fingers or clothing in rotating parts such as gears, rollers, or motors.
- Never touch the terminals of electrical components or high-voltage components, such as the power unit or the high-voltage unit.
- Be careful when working around the fusing unit because it will be hot long after the printer is turned off. Wait until the fuser has cooled before disassembly.
- Turn off the printer before plugging or unplugging a power cord. Never plug or unplug a
 power cord that is energized. When plugging or unplugging connectors, be sure to hold
 the plug. Never pull on the cord or you may break the wires connecting the plug to the
 power cord.
- · Use only fuses of the specified rating.
- To ensure electrical conduction, attach the ground wire. In addition, be sure to use the screws with toothed washers as instructed.

1-2. Parts that must not be touched

Do not remove, disassemble, or adjust any of the parts listed below:

- · Print head unit (disassembly or adjustment)
- · Components with mounting screws that are painted red.

1-3. Precautions for transporting or storing PWBs

Observe the following precautions when handling circuit boards.

- During transportation or storage, circuit boards must be placed in anti-static bags and must not be unnecessarily removed. Do not wrap the circuit boards in plastic or paper bags.
- · Do not store or place circuit boards in a location exposed to direct sunlight.
- When it becomes necessary to remove a circuit board from the anti-static bag, do not
 place it where it is easily be affected to static electricity, such as on carpet, plastic, or in
 vinyl bags.

1-4. Precautions for replacing PWBs

- Generally, the PWB or the assembly should be replaced.
- When unplugging connectors from the circuit board, ensure the power is off.
- When removing a circuit board from its anti-static bag, or when replacing the circuit board, hold the board by its edges, making sure not to touch pins of the ICs or the printed pattern.

1-5. Precautions for inspecting PWBs

- · Do not check ICs directly with a multimeter; use connectors on the circuit board.
- Never create a closed circuit across IC pins with a metal tool.
- When it is necessary to touch ICs and other electrical components on the circuit board, be sure to first ground yourself.

1-6. Precautions for transporting or storing the OPC drum cartridge

- Use the specified carton when transporting or storing the OPC drum (magicolor 2350)/ PC drum (magicolor 2300 dl).
- Do not store or place an OPC drum cartridge in a location where it will be exposed to direct sunlight. The storage temperature should be between -4°F(-20°C) to 104°F (+40°C).

1-7. Precautions for handling the OPC drum cartridge

- The OPC drum cartridge is extremely sensitive to light shock. It takes a long time to recover the drum's photosensitivity. Never leave the protective cover open or expose the OPC drum cartridge to direct sunlight for long periods of time.
- Do not contaminate the surface of the OPC drum cartridge with fingerprints, oil or chemicals
- · Do not scratch the surface of the OPC drum cartridge.

1-8. Red painted Screws

Purpose of Application of Red Paint

Red painted screws show that the assembly or unit secured can only be adjusted or set at the factory and should not be adjusted, set, or removed in the field.

Note that when two or more screws are used on the part in questions, only one representative screw may be marked with red paint.

1-9. Variable Resistors on Board

Do not turn the variable resistors on boards for which no adjusting instructions are given.

2. Maintenance Schedule

		Maintenan	ce Cycle	Near	Life		Ref. Page
	PM Parts	Clean	Replace	Life Detec- tion	Detec- tion	Print Inhibited	in This Manual
Paper Take-Up Section	Paper Take-Up Roller	When paper take-up failure occurs	200K Prints	NO	NO	NO	89
	Separator Roller Assy	When paper take-up failure occurs	200K Prints	NO	NO	NO	89
ction	Paper Dust Roller	When paper transport failure occurs	-	NO	NO	NO	90
Transfer Section	Transport Roller	When paper transport fail- ure occurs	-	NO	NO	NO	91
F	2nd Image Transfer Roller	-	120K Prints	NO	NO	NO	92
r Section	Image Transfer Belt Unit	-	210K Prints B&W 52.5K Prints Color	NO	NO	NO	94
insfe éb	Waste Toner Bottle	-	25K Images	YES	YES	YES	91
Image Transfer Section éb	Around waste toner collecting port	When the Waste Toner Bottle is removed	-	NO	NO	NO	91
Section	Toner Cartridge C/M/Y/K	1	4.5K Prints (High Cap) 1.5K Prints (Standard)	YES	YES	NO	94
Developing Section	OPC Drum Cartridge	ı	45K Images - B&W 11.25K Images - Color	YES	YES	NO	93
PH Section	Laser Lens Cover	When an image problem occurs	-	NO	NO	NO	92
Fusing Section	Fusing Unit	-	120K Prints	NO	NO	NO	95

NOTES

- $\ensuremath{\bigstar}$ Replace the Paper Take-Up Roll and Separator Roll at the same time.
- $\ensuremath{\bigstar} \ensuremath{\mathsf{Replace}} \ensuremath{\mathsf{the}} \ensuremath{\mathsf{Second}} \ensuremath{\mathsf{Image}} \ensuremath{\mathsf{Transfer}} \ensuremath{\mathsf{Roller}} \ensuremath{\mathsf{and}} \ensuremath{\mathsf{Fusing}} \ensuremath{\mathsf{Unit}} \ensuremath{\mathsf{at}} \ensuremath{\mathsf{the}} \ensuremath{\mathsf{same}} \ensuremath{\mathsf{time}}.$
- $\begin{tabular}{ll} $\$$ When the Fusing Unit has been replaced, reset the counter on the control panel. (See CONTROL PANEL/SERVICE MODE DESCRIPTIONS.) \\ \end{tabular}$
- *When the Image Transfer Belt Unit and Second Image Transfer Roller have been replaced, reset the counter on the control panel. (See CONTROL PANEL/SERVICE MODE DESCRIPTIONS.)

Every one color developed in one count up.

2-1. Guideline for Life Specifications Values by Unit

	Life Value	Near Life Value	Life Value
Toner Car- tridge	4.5K Pages (C/W)	TC with machine (1.5K pages) When reach the TC consumption ratio in 89%. After TV (4.5K pages) When reach the TC consumption ratio in 96%.	When reach the TC consumption ratio in 100%.
OPC Drum Cartridge	45K images	When reach the DC consumption ratio in 96%.	When reach the DC consumption ratio in 100%.
Waste Toner Bottle	25K images	When detect near life information from Main unit.(Master Board)	Print out the 200 images (mono- chrome) or 50 images(color), after detect the near life.
Image Trans- fer Belt Unit	210K images		
Fusing Unit	120K Pages	-	-
2nd Image Transfer Roller	120K Pages		

2-2. Detail of Each Unit Life

	Kind of Paper	Detail of Life	
Toner Car- tridge	Plain Paper	C/W ratio 5% less: 1.5K images - 4.5K images *1	
	Special Paper	C/W ratio 5% less: 1.0K images - 4.5K images *1	
OPC Drum	Plain Paper	Standard Life Specification Value: monochrome 13.5K prints, color 4.5K prints (TOTAL 18K prints)	
Cartridge	Special Paper	Continuous: monochrome 15K prints, color 7.5K print	
Waste Toner Bottle	Plain Paper	CAN get in 50/ Prints Wests to an acceptant	
	Special Paper	C/W ratio 5% Prints, Waste toner capacity: monochrome 25K images, color 6.25K images *1	
Waste Toner Bottle	Plain Paper	Standard Life Specification Value: monochrome 60K prints, color 20K prints (TOTAL 80K prints)	
Fusing Unit	Plain Paper	Standard Life Specification Value: managhrama 00K prints, color	
2nd Image Transfer Roller	Plain Paper	Standard Life Specification Value: monochrome 90K prints, color 30K prints (TOTAL 120K prints)	

^{* 1:} The Life Specification Value represents the number of prints made or figures equivalent to it when given conditions are met. They can be more or less depending on the printer operating conditions of each individual user.

NOTES

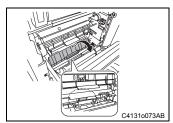
- The Life Value represents the number of printed pages or a figure equivalent to it when given conditions (shown below) are met. It can be more or less depending on the operating conditions of the machine of each individual user.
- One color is one image. One printed page produced in color is counted four images.

Conditions for Life Specifications Values

	magicolor 2300DL, 2350, 2300W
Print conditions	Monochrome: producing three printed pages continuously; color: making two printed pages continuously
Paper Size	A4C or Letter C
Color Ratio	Monochrome : Color = 3 : 1
Density	C/W(Coverage/White) ratio = 5% in each color

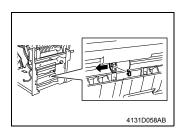
3. Maintenance And Cleaning

(1) Cleaning of the Paper Take-Up Roller



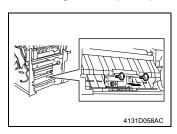
- 1. Open the right-side door.
- 2. Using a soft cloth dampened with alcohol, wipe the Paper Take-Up Roll clean of dirt.

(2) Replacement the Paper Take-up Roller

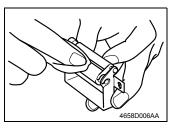


- 1. Remove the right-side door.
- 2. Remove the knob, and then replace the Paper Take-up Roll.

3. Cleaning of the Paper Separator Roll

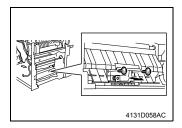


- 4. Remove the right-side door.
- 5. Remove two screws and the Paper Separator Roll Mounting Assy.

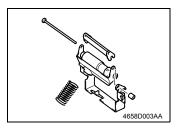


Using a soft cloth dampened with alcohol, wipe the Paper Separator Roll clean of dirt.

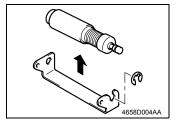
(3) Replacement of the Paper Separating Roller Assy



- 1. Remove the right-side door.
- 2. Remove two screws and the Paper Separator Roll Mounting Assy.

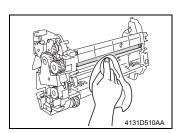


Take off the rubber stopper, shaft, spring, and guide plate to remove the Paper Separator Roll fixing bracket assy.



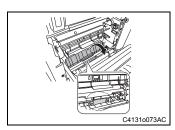
- 4. Snap off one E-ring and the Paper Separator Roll Assy.
- 5. Remove the Paper Separator Roll.
- 6. To reinstall, reverse the order of removal.

(4) Cleaning of the Paper Dust Roller



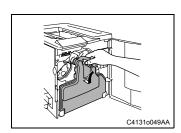
- 1. Remove the Transport Unit.
- 2. Using a soft cloth dampened with alcohol, wipe the Paper Dust Roller Roll clean of dirt.

(5) Cleaning of the Transport Roller

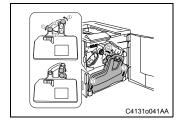


- 1. Open the Right-side Door.
- 2. Using a soft cloth dampened with alcohol, wipe the Transport Roller clean of dirt.

(6) Replacement of the Waste Tonner Bottle



- 1. Open the Front Door.
- Hold onto the handle of the Waste Toner Bottle and, while slightly pulling the bottle to the front, pull it upward.



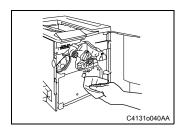
3. Mount the cap to the waste toner collecting port.

NOTE

Discard the Waste Toner Bottle according to the applicable local regulation.

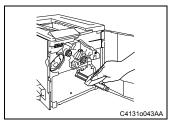
4. To reinstall, reverse the order of removal.

(7) Cleaning of the Areas around Waste Toner Collections Port



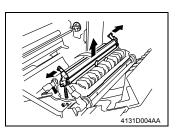
- 1. Open the Front Door.
- 2. Remove the Waste Toner Bottle.
- Wipe the areas around the waste toner collecting port clean of dirt using a soft cloth dampened with alcohol.

(8) Cleaning of the Laser Lens Cover



- 1. Open the Front Door.
- 2. Remove the Waste Toner Bottle.
- 3. Withdraw the Laser Lens Cover.
- 4. Wipe the lens of the Laser Lens Cover clean of dirt using a soft cloth dampened with alcohol.

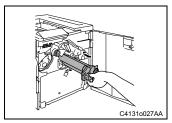
(9) Replacement of the Second Image Transfer Roller



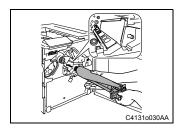
- 1. Remove the Right-side Door.
- While pulling the bushings (white) at the front and rear ends of the 2nd Image Transfer Roller to the rear and to the front, respectively, place them down to the right. Then, remove the 2nd Image Transfer Roller from the 2nd Image Transfer Roller Holder.
- 3. To reinstall, reverse the order of removal.
- Select functions as follows: Engine/Service -> Power On Test. Then, execute ATVC.

4. Replacement of the Units

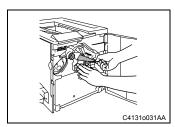
(1) Replacement of the OPC Drum Cartridge



- 1. Open the Front Door.
- 2. Remove the Waste Toner Bottle.
- 3. Lower the unlock lever and remove the Drum Cartridge.

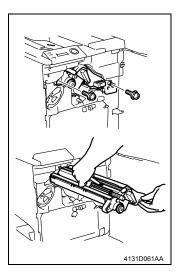


4. Reinstall the new Drum Cartridge.



- 5. Pull the protective sheet of the Drum Cartridge to the front and remove it.
- 6. Raise the unlock lever.

(2) Replacement of the Image Transfer Belt Unit



- 1. Open the Front Door.
- 2. Remove the Waste Tonner Bottle.
- 3. Remove the Drum Cartridge.
- Remove two screws and the Image Transfer Belt Unit.

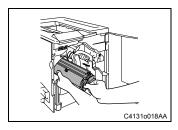
NOTE

When replacing the Image Transfer Belt Unit, be sure to remove the packing materials.

Do not touch the transfer belt with bare hands.

- 5. To reinstall the belt unit, reverse the order of removal.
- Select functions as follows: Service -> Service/ Service Person -> Reset Counter/Fuser Unit. Then, clear the counter.

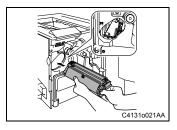
(3) Replacement of the Toner Cartridge



- 1. Open the Front Door.
- 2. Remove the Waste Tonner Bottle.
- 3. Remove the Drum Cartridge.

NOTE

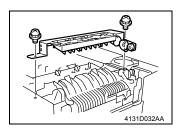
Discard the Toner Cartridge according to the applicable local regulation. Do not throw the Toner Cartridge into an open flame.



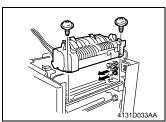
- 4. Remove the packing materials and install the Toner Cartridge.
- Enter the capacity of the Toner Cartridge just installed through the control panel.
 E.g.: If a Yellow Toner Cartridge has been
 - replaced (4.5 K)
 - "Menu/Engine -> Replace Toner -> Yellow -> High"

(4) Replacement of the Fusing Unit

- 1. Remove the Top Front Cover.
- 2. Remove the Top Cover.
- 3. Open the Right-side Door.



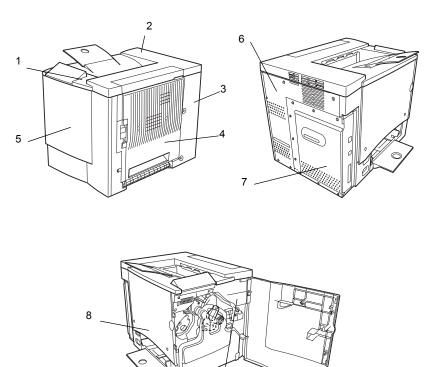
4. Remove two screws and the Fusing Unit Cover.



- 5. Unplug the connector from the Power Unit and remove the harness from the cord holder.
- 6. Remove the Fusing Unit from the machine (two screws and two connectors).
- 7. To reinstall the Fusing Unit, reverse the order of removal.
- Select functions as follows: Service -> Service/ Service Person -> Reset Counter/Fuser Unit. Then, clear the counter.

4-1. Disassembly Procedures

(1) Doors, Covers, And Exterior Parts: Identification And Removal Procedures

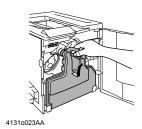


No.	Name	Removal Procedure	
1	Top Front Cover	Open the Front Door and Right Door> Remove two screws and the Top Front Cover.	
2	Top Cover	Open the Front Door and Right Door> Remove the Front Upper Cover> Remove five screws and the Top Cover.	
3	Right-side Rear Cover	Remove the Controller Protective Cover> Remove the Rear Cover> Remove two screws and the Right-side Rear Cover.	
4	Right-side Door Cover	Remove two screws and the Right-side Door Cover.	
5	Front Door Open the Right Door> Remove the Top Front Cover> Remove Top Cover> Remove the Front Door.		
6	Rear Cover Remove the Controller Board Protective Cover> Remove eight screws and the Rear Cover.		
7	Controller Board Pro- tective Cover	Loosen nine screws, remove two screws, and remove the Controller Board Protective Cover.	
8	Left-side Cover Open the Right Door> Remove the Top Front Cover> Remove the Top Cover> Remove the Top Cover> Remove three screws and the Left-side Cover.		
9	Front Cover	Open the Right Door> Remove the Top Front Cover> Remove the Top Cover> Remove the Front Door> Remove nine screws and the Front Cover.	

4-2. Pre-disassembly preparation

Before disassembling the machine, the following units need to be removed.

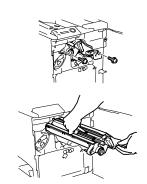
- · Waste toner bottle
- · OPC drum cartridge
- Toner cartridges (4 colors)
- · Image transfer belt unit



- 1. Open the front door.
- 2. Remove the waste toner bottle.



3. Remove the OPC drum cartridge.



4131D061AA, 4131D062AA

4. Remove the image transfer belt unit. (2 screws)

Note

When replacing the image transfer belt unit, be sure to remove the packing material. Do not touch the image transfer belt with your bare hands.

- 5. Remove all toner cartridges.
- (1) magicolor 2350 procedures:
 - a) From the display, select the menu "Quality".
 - b) Select "Toner", then "Replace"
 - c) Select each toner color of the cartridge to be removed, and then press the Select key to move the cartridge to the removal position.
- (2) magicolor 2300 DL procedures
 - a) From the display, select the menu "Engine".
 - b) Select "Replace Toner".
 - c) Select each color toner cartridge from this menu to remove it.

(3) magicolor 2300W procedures

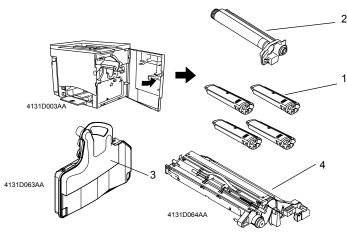
- a)Open the Status Display from the connected PC.
- b)From the Printer tab choose Toner Replace...
- c) Select each color toner and follow the procedures to replace.

(4) Manual removal procedures

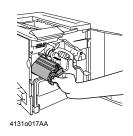
Caution:

Rotate the carousel carefully to prevent injury to your fingers.

- a) Press in the toner carousel latch and carefully turn the carousel until the next cartridge is positioned for removal. Remove the toner cartridge.
- b)Repeat step b until all toners have been removed.



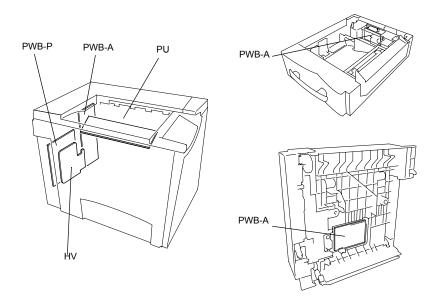
- 1 Toner cartridge
- 2 OPC drum cartridge
- 3 Waste toner bottle
- 4 Image transfer belt unit



4-3. Removal Of Circuit Boards And Other Electrical Components

NOTES

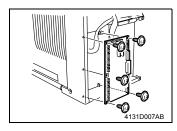
- When removing a circuit board or other electrical component, refer to "Handling of PWBs" and follow the corresponding removal procedures.
- The removal procedures given in the following omit the removal of connectors and screws securing the circuit board support or circuit board.
- Where it is absolutely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



Symbol	Name	Removal Procedure
PWB-A	Master Board	101
PWB-P	Controller Control Board	102
PU	Power Unit	102
HV	High Voltage Unit	103
PWB-A	Lower Feeder Control Board	104
PWB-A	Duplex Unit Control Board	105

(1) Removal of the Rear Cover

1. Remove the Rear Cover



- 2. Remove the harness and connector.
- 3. Remove five screws and the Master Board (PWB-A).

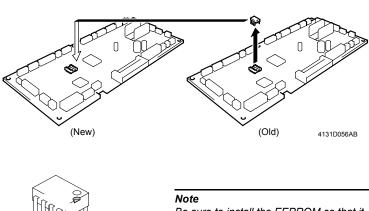
NOTE

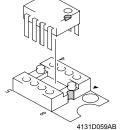
When the Master Board has been replaced, be sure to demount EEPROM from the old master board and mount it to the new one.

(2) To replace the Master Board

Note

- When replacing the master board, be sure to move the EEPROM from the old master board to the new one.
- 1. Remove the rear cover and the master board.
- 2. Replace the EEPROM (IC3).

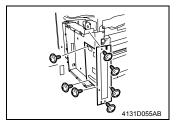




Be sure to install the EEPROM so that it faces the correct direction.

(3) Removal of the Controller Board

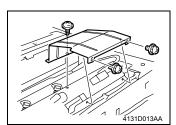
1. Remove the Controller Board Protective Cover.



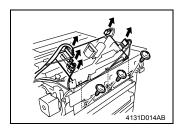
- 2. Remove the harness and connector.
- 3. Remove seven screws and the Controller Board (PWB-P).

(4) Removal of the Power Unit

- 1. Open the Right-side Door.
- 2. Remove the Top Front Cover.
- 3. Remove the Top Cover.
- 4. Remove the Left-side Cover.



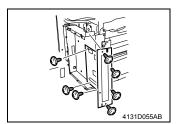
5. Remove three screws and the protective cover.



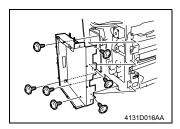
- Remove the harness, connector, and PWB support.
- 7. Remove three screws and the Power Unit.

Removal of the High Voltage Unit

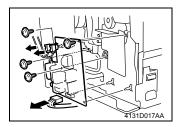
- Open the Right-side Door.
 Remove the Top Front Cover.
- 3. Remove the Top Cover.
- 4. Remove the Rear Cover.
- 5. Remove the Left-side Cover.
- 6. Remove the Controller Protective Cover.



- 7. Remove the harness and connector.
- 8. Remove seven screws and the Controller Board (PWB-P).

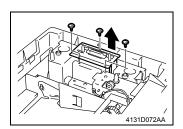


9. Remove seven screws and the Controller Box.

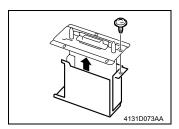


- 10. Remove the connector and PWB support.
- 11. Remove four screws and the High Voltage Unit

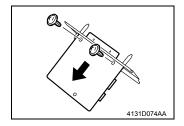
(6) Removal of the Lower Feeder Control Board



Remove three screws and the Lower Feeder Control Board Assy.

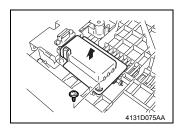


- 2. Remove the harness and connector.
- Remove one screw and the PWB protective cover.

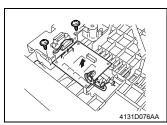


4. Remove two screws and the Lower Feeder Control Board.

(7) Removal of the Duplex Unit Control Board



1. Remove one screw and the PWB Protective Cover.

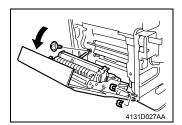


- Remove the harness and connector.
 Remove two screws and the Duplex Unit Control Board.

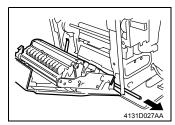
4-4. Removal of Units

(1) Removal of the Right-side Door

- 1. Remove the Front Door.
- 2. Remove the Controller Protective Cover.
- 3. Remove the Rear Cover.
- 4. Remove the Front Cover.
- 5. Remove the Right-side Rear Cover.



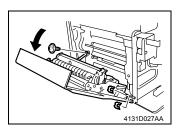
- 6. Remove the harness and connector.
- Slightly open the Right-side Door and, supporting the door with your hand, remove one screw and two C-rings.



8. Pull out the shaft and remove the Right-side Door

(2) Removal of the Print Head Unit (PH)

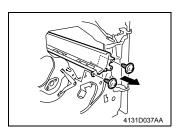
- 1. Remove the Front Door.
- 2. Remove the Controller Protective Cover.
- 3. Remove the Rear Cover.
- 4. Remove the Front Cover.
- 5. Remove the Right-side Cover.



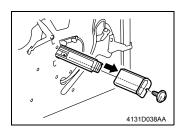
- 6. Remove the harness and connector.
- Slightly open the Right-side Door and, supporting the door with your hand, remove one screw and two C-rings.



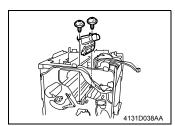
8. Pull out the shaft and remove the Right-side Door.



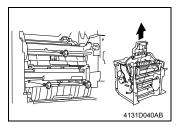
- 9. Remove the harness and connector.
- 10. Remove two screws and the Drum Unit Slide Cover.



11. Remove one screw and the Laser Lens Cover.



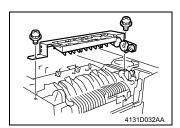
12. Remove two screws and the Print Head Cover.



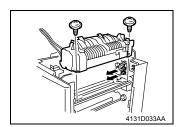
13. Remove three screws and the Print Head Unit (PH).

(3) Removal of the Fusing Unit

- 1. Remove the Top Front Cover.
- 2. Remove the Top Cover.
- 3. Open the Right-side Door.



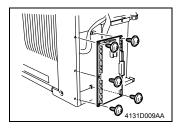
4. Remove two screws and the Paper Exit Assy.



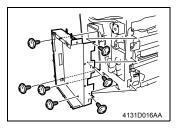
- 5. Remove the harness and connector.
- 6. Remove two screws. Then, remove the Fusing Unit from the machine.

(4) Removal of the Transport Unit

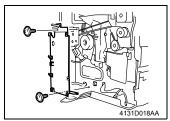
- 1. Open the Right-side Door.
- 2. Remove the Top Front Cover.
- 3. Remove the Top Cover.
- 4. Remove the Controller Board Protective Cover.
- 5. Remove the Controller Board.
- 6. Remove the Rear Cover.
- 7. Remove the Front Door.
- 8. Remove the Front Cover.



- 9. Remove the harness and connector.
- 10. Remove five screws and the Master Board (PWB-A).

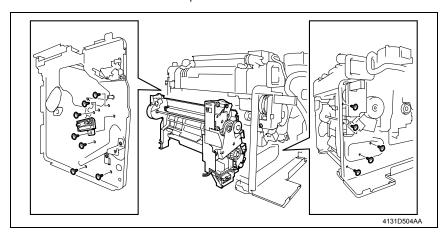


11. Remove seven screws and the Controller Box.



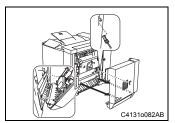
12. Remove two screws and the Master Board

- 13. Remove the harness and connector.
- 14. Remove ten screws and the Transport Unit.



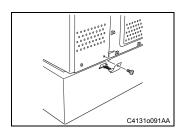
(5) Removal of the Duplex Unit

1. Open The Right-side Door.

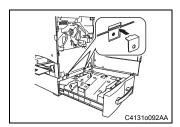


- 2. Remove two screws.
- 3. Supporting the Duplex Unit with your hand, remove the cable hook.

(6) Removal of the Lower Feeder



1. Remove one screw and the rear panel fixing bracket.

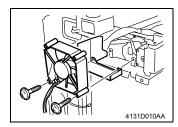


- 2. Open the Front Door and slide out the Second Paper Cassette.
- 3. Remove two screws and the two front panel fixing brackets.

4-5. DISASSEMBLY OF THE ENGINE PARTS

(1) Power Supply Cooling Fan Motor

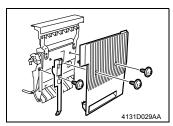
- 1. Open the Right-side Door.
- 2. Remove the Top Front Cover.
- 3. Remove the Front Cover.
- 4. Remove the Rear Cover.



- 5. Remove the harness and connector.
- 6. Remove two screws and the Power Supply Cooling Fan Motor.

(2) Removal of the Fusing Cooling Fan Motor

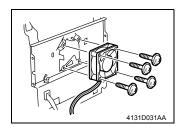
- 1. Remove the Right-side Door.
- 2. Remove the Right-side Door Cover.



3. Remove one screw and the Right Front Cover.



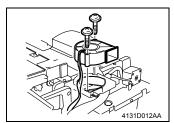
4. Remove six screws and the Paper Exit Unit.



- 5. Remove the harness and connector.
- 6. Remove four screws and the Fusing Cooling Fan Motor.

(3) Removal of the Ventilation Fan Motor

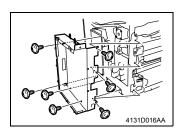
- 1. Open the Right-side Door.
- 2. Remove the Top Front Cover.
- 3. Remove the Top Cover.
- 4. Remove the Rear Cover.



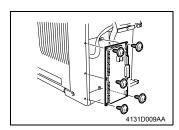
- 5. Remove the harness and connector.
- Remove two screws and the Ventilation Fan
 Motor

(4) Removal of the Main Motor Assembly

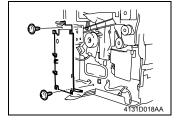
- 1. Remove the Controller Protective Cover.
- 2. Remove the Rear Cover.



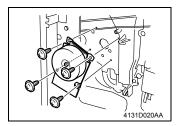
3. Remove seven screws and the Controller Box.



- 4. Remove the harness and connector.
- 5. Remove five screws and the Master Board (PWB-A).



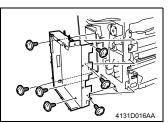
6. Remove two screws and the Master Board Cover.



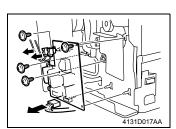
7. Remove four screws and the Main Motor Assy.

(5) Removal of the Rack Motor

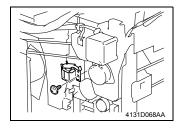
- 1. Open the Right-side Door.
- Remove the Top Front Cover.
 Remove the Top Cover.
- 4. Remove the Rear Cover.
- 5. Remove the Left-side Cover.
- 6. Remove the Controller Protective Cover.



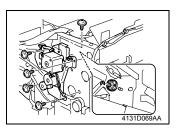
7. Remove seven screws and the Controller Box.



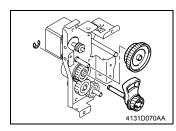
- 8. Remove the connector and PWB Support.
- 9. Remove four screws and the High Voltage Unit (HV).



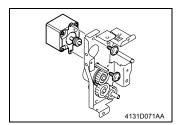
10. Remove one screw and the Belt Cleaner Separation Solenoid.



- 11. Snap off one E-ring and remove the cam from the inside of the printer.
- 12. Remove five screws and the Rack Drive Assy.

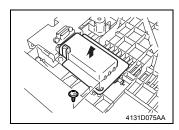


13. Snap off one E-ring. Then, remove the Rack Clutch Shaft and the Drive Gear.

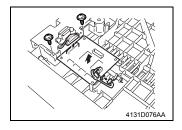


14. Remove two screws and the Rack Motor.

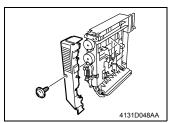
(6) Removal of the Turnover Motor And The Transport Motor



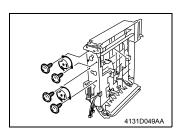
1. Remove one screw and the Protective Cover.



- 2. Remove the harness and connector.
- 3. Remove two screws and the Duplex Unit Control Board.



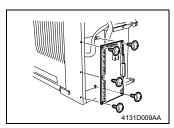
- 4. Remove the harness and connector.
- 5. Remove one screw and the Duplex Unit Cover.



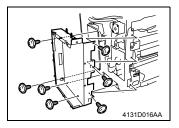
- 6. Remove two screws and the Duplex Unit Turnover Motor.
- 7. Remove two screws and the Duplex Unit Transport Motor.

(7) Removal of the Manual Feed Take-up Solenoid

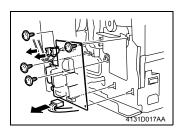
- 1. Remove the Top Front Cover.
- 2. Remove the Top Cover.
- 3. Remove the Rear Cover.
- 4. Remove the Left-side Cover.
- 5. Remove the Right-side Door.
- 6. Remove the Front Cover.



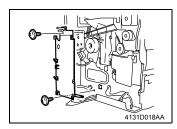
- 7. Remove the harness and connector.
- 8. Remove five screws and the Master Board (PWB-A).



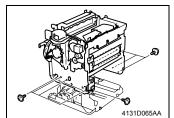
9. Remove seven screws and the Controller Box.



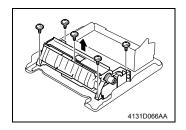
- 10. Remove the connector and PWB Support.11. Remove four screws and the High Voltage Unit (HV).



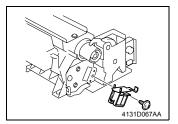
12. Remove two screws and the Master Board Cover.



13. Remove eleven screws and the bottom plate.



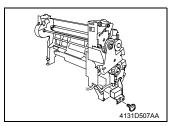
14. Remove five screws and the Manual Feed Take-Up Assy.



15. Remove one screw and the Manual Feed Paper Take-Up Solenoid.

(8) Removal of the Transport Roller Solenoid

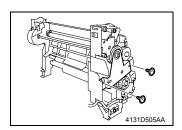
1. Remove the Transport Unit See page 108



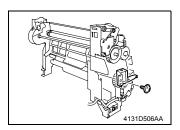
2. Remove one screw and the Transport Roller Solenoid.

(9) Removal of the Synchroning Roller Solenoid

1. Remove the Transport Unit See page 108



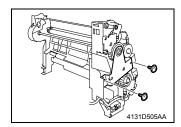
2. Remove two screws and the Transport Unit gear mounting bracket.



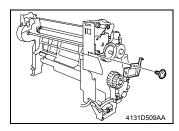
3. Remove one screw and the Synchronizing Roller Solenoid.

(10) Removal of the Second Image Transfer Roller Pressure Contact Solenoid

1. Remove the Transport Unit See page 108



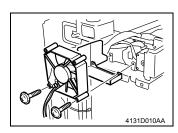
2. Remove the Transport Unit gear mounting bracket.



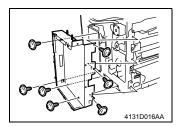
3. Remove one screw and the 2nd Image Transfer Roller Pressure Contact Solenoid.

(11) Removal of the Belt Cleaner Separation Solenoid

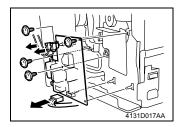
- 1. Open the Right-side Door.
- 2. Remove the Top Front Cover.
- 3. Remove the Top Cover.
- 4. Remove the Rear Cover.
- 5. Remove the Left-side Cover.
- 6. Remove the Controller Protective Cover.



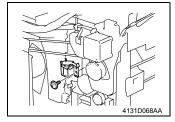
- 7. Remove the harness and connector.
- 8. Remove two screws and the Power Supply Cooling Fan Motor.



9. Remove seven screws and the Controller Box.



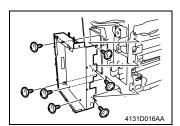
- 10. Remove the connector and PWB Support.
- 11. Remove four screws and the High Voltage Unit (HV).



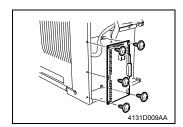
12. Remove one screw and the Belt Cleaner Separation Solenoid.

(12) Removal of the Fusing Paper Loop Solenoid

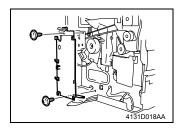
1. Remove the Rear Cover



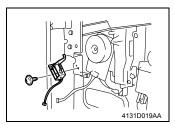
2. Remove seven screws and the Controller Box.



- 3. Remove the harness and connector.
- 4. Remove five screws and the Master Board (PWB-A).



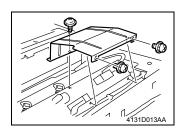
5. Remove two screws and the Master Board Cover.



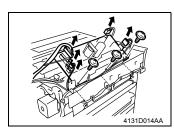
6. Remove one screw and the Fusing Paper Loop Solenoid.

(13) Removal of the AIDC sensor

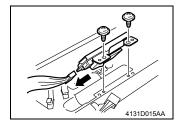
- 1. Remove the Top Front Cover.
- 2. Remove the Top Cover.
- 3. Remove the Left-side COver.



4. Remove three screws and the protective cover.



- 5. Remove the harness, connector, and PWB Support.
- 6. Remove three screws and the Power Unit.



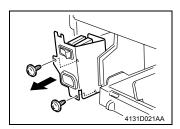
- 7. Remove the wiring saddle on the protective sheet
- 8. Peel off the protective sheet and remove two screws and the AIDC Sensor.

NOTE

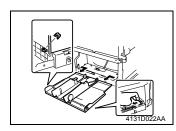
Do not remove the protective sheet.

(14) Removal of the Manual feed tray

- 1. Remove the Top Front Cover.
- 2. Remove the Top Cover.
- 3. Remove the Front Cover.
- 4. Remove the Left-side Cover.



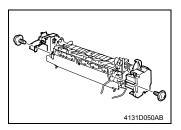
5. Remove two screws and the switch box.



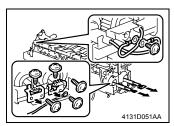
6. Snap off the C-ring and remove the Manual Feed Tray.

(15) Disassembly of the Fusing Unit

1. Remove the Fusing Unit. See page 108



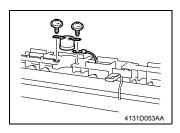
2. Remove two screws and the cover.



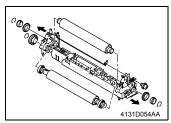
3. Remove six screws and the Heater Lamp.

Notes for installation

Be sure to install the screws securing the leads in the correct locations.



4. Remove two screws and the Thermostat (TS1).

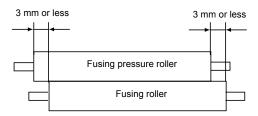


5. Remove the Fusing Roller and Fusing Pressure Roller (screw, E-ring, C-ring).

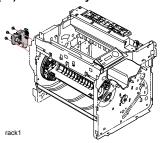
Notes for installation

When installing the fusing roller and the fusing pressure roller, install them with the specified misalignment.

Standard: ±3 mm or less



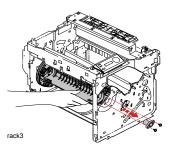
(16) Disassembly of the toner cartridge rack



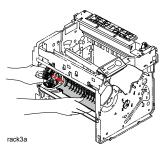
- Remove the controller protective cover, topfront cover, top cover, left-side cover, rear cover, controller, controller box, high-voltage unit, master board, and master-board bracket.
- 2. Remove the rear-rack shaft cover. (3 screws)



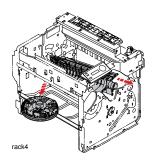
3. Remove the screws securing the rack disk to the toner-cartridge rack. (4 screws)



4. Remove the front-rack shaft cover. (2 screws)



5. Separate the toner-cartridge rack from the rack disk.



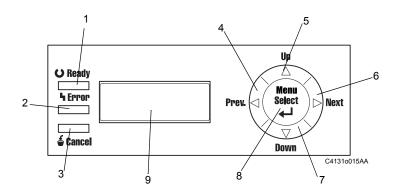
6. Remove the toner-cartridge rack and rack disk from the printer.



1. Control Panel Descriptions—2300DL & 2350

* For details, refer to the User's Guide supplied with the unit.

1-1. Names of control panel parts and their functions

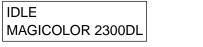


No.	Name	Function/details
1	Green LED indicator	Lights up to indicate that the printer is ready to print.
2	Orange LED indicator	Lights up to indicate that an error has occurred.
3	Cancel Key	 Press to cancel the print job. IDLE is displayed.
4	Prev. Key	
5	Up key	Press to scroll through the
6	Next Key	menus.
7	Down Key	
8	Menu Select Key	Press to enter the configura- tion menu or to apply the cur- rently selected setting.
9	Message Window	Displays the status or configuration of the printer.

1-2. Message Window

(1) Ready screen

The ready screen is the initial message that appears after the unit is finished warming up and after a menu setting is cancelled.



MAGICOLOR 2350 IDLE

C41310001AA

(2) Warning screen

The following appear in the warning screen according to the condition of the printer.

<Malfunction display>

This generally appears when a malfunction that cannot be corrected by the user has occurred.

Example: Malfunction that can be indicated with malfunction code.

FATAL ERROR CODE: 04H

C4131o002AA

SERVICE CALL 04 ENGINE BOARD

<Error display>

This appears when an error has occurred.

Example: There is a media misfeed or a door is open

MEDIA JAM FUSER

C4131o003AA

PAPER JAM FUSER

<Caution display>

This appears if printing is possible, but an error in the near future is expected.

Example: The black toner cartridge is empty.

TONER EMPTY BLACK

C4131o004AA

BLACK EMPTY REPLACE?

(3) Status Messages

) Status Messages		
magicolor 2300 DL Messages	magicolor 2350 Messages	
CALIBRATING	CALIBRATING	
CANCELLING JOB	CANCELLING JOB	
ENERGY SAVER	ENERGY SAVER	
IDLE MAGICOLOR 2300DL	MAGICOLOR 2350 IDLE	
PRINTING	PRINTING	
PROCESSING	PROCESSING	
WARMING UP	WARMING UP	
	STARTING SYSTEM	
	COPYING # of #	
	INITIALIZING	
C TONER LOW	CYAN LOW REPLACE?	
M TONER LOW	MAGENTA LOW REPLACE?	
K TONER LOW	BLACK LOW REPLACE?	
Y TONER LOW	YELLOW LOW REPLACE?	
TONER EMPTY BLACK	BLACK EMPTY REPLACE?	
TONER EMPTY YELLOW	YELLOW EMPTY REPLACE?	
TONER EMPTY CYAN	CYAN EMPTY REPLACE?	
TONER EMPTY MAGENTA	MAGENTA EMPTY REPLACE?	
MEDIA JAM TRAY 1	PAPER JAM TRAY 1	
MEDIA JAM TRAY 2	PAPER JAM TRAY 2	
MEDIA JAM DUPLEX LOWER	PAPER JAM DUPLEX	
MEDIA JAM DUPLEX UPPER	FAFER JAIN DOFLEX	
MEDIA JAM TRANSFER ROLLER	PAPER JAM TRANSFER	
MEDIA JAM FUSER	PAPER JAM FUSER	
MEDIA JAM EXIT	PAPER JAM EXIT	
TRAY 1 EMPTY		
TRAY 2 EMPTY		
WASTE: NEAR FULL		
DRUM CARTRIDGE END OF LIFE	REPLACE OPC DRUM	
DRUM LOW	OPC DRUM LOW	
PRINTER COVER OPEN	MAIN UNIT COVER OPEN	
PUT PAPER:TRAY 2 "SIZE"		
PUT MEDIA:TRAY1 "SIZE"	PUT [X] IN [Y]	
DRUM CARTRIDGE NOT ATTACHED	OPC DRUM MISSING	
WASTE TONER BOX NOT ATTACHED	WASTE TONER MISSING	
NO TONER UNIT CYAN	CYAN TONER MISSING	
NO TONER UNIT MAGENTA	MAGENTA TONER MISSING	
NO TONER UNIT BLACK	BLACK TONER MISSING	

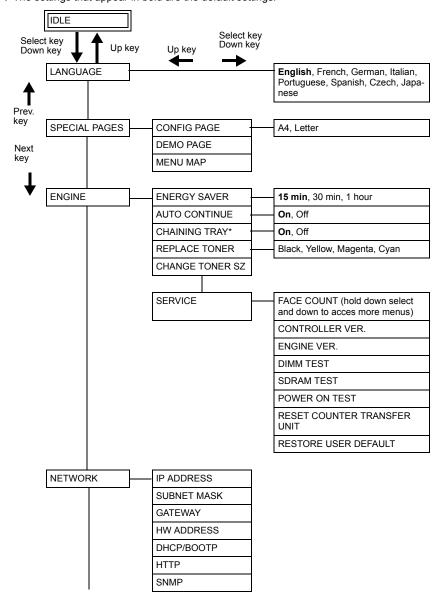
magicolor 2300 DL Messages	magicolor 2350 Messages
NO TONER UNIT YELLOW	YELLOW TONER MISSING
COVER OPEN TRAY 2	TRAY 2 PATH COVER OPEN
WASTE TONER BOX FULL	REPLACE WASTE TONER
DRAWER OPEN TRAY 2	[tray #] OPEN
PUT X:TRAY1	
TRAY 2 NOT ATTACHED	
SIZE MISMATCH	PAPER MISMATCH
SIZE/TYPE ERROR	MEDIA MISMATCH
SIZE/TYPE ERROR DUPLEX	
ERROR AIDC SENSOR	AIDC ERROR
DUPLEX UNIT NOT ATTACHED	
TRAY 2 LOW	
ERROR VIDEO UNDERRUN	
ERROR MEMORY OVERFLOW	
	DISK NEAR FULL
	DISK ACCESS ERROR (file type)
	EMAIL ERROR ACC DATA TRANS
	DOWNLOAD IMAGE TO ENET PORT
	ERROR LOADING IMAGE
	FIRMWARE UPDATE FORMAT ERROR
	FIRMWARE UPDATE INVALID IMAGE
	FIRMWARE UPDATE DOWNLOAD IMAGE
	FIRMWARE UPDATE FORMATTING
	FIRMWARE UPDATE READING HEADER
	FIRMWARE UPDATE READING IMAGE
	FIRMWARE UPDATE SELECTED

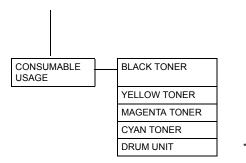
2. Menu Contents for magicolor 2300 DL

2-1. Print menu overview

The following settings appear in the menus.

* The settings that appear in bold are the default settings.





*displays only if option installed

2-2. Settings menus

(1) Language menu

• The language in which messages are displayed can be changed.

(2) Special pages

CONFIG PAGE	A configuration page can be printed.	
DEMO PAGE	A demonstration page can be printed.	
MENU MAP	A menu chart page can be printed.	

(3) Engine menu

ENERGY SAVER	Set the length of time until the printer enters energy saver mode after it no longer receives print jobs or is not operated. If a print job is received while the printer is in energy saver mode, the printer warms up, then returns to normal print mode before starting to print.
AUTO CONTINUE	When set to "On," the printer continues printing even if the specified tray is not loaded with paper of the correct size. When set to "Off," the printer stops and displays a message indicating that paper of the correct size should be loaded into the specified tray if the specified tray does not contain paper of the correct size. The Auto Continue setting can also be changed while printing. If this is done, the setting will remain valid for future print jobs.
CHAINING TRAY	When set to "On," the printer automatically switches to a different media tray containing paper of the same size and type and continues printing if the specified tray runs out of paper. When set to "Off," the printer stops and displays a message indicating that paper should be loaded into the specified tray if the specified tray runs out of paper. The Chaining Tray setting can also be changed while printing. If this is done, the setting will remain valid for future print jobs.
REPLACE TONER	This is used when replacing the toner cartridge. By selecting the color of the toner cartridge that you wish to replace (remove), the carousel automatically stops so that the selected toner cartridge can be removed.
CHANGE TONER SZ	Use this submenu to select the toner cartridge capacity.

(4) Service menu

FACE COUNT	A six-digit number indicating the number of pages that have been printed until now with this printer is displayed.	
CONTROLLER VER.	The controller firmware version is displayed.	
ENGINE VER.	The printer engine firmware version is displayed.	
DIMM TEST	A complete DIMM test is performed, allowing you to check that there are no errors in the DIMM.	
SDRAM TEST	A complete SDRAM test is performed, allowing you to check that there are no errors in the SDRAM.	
POWER ON TEST	A Power On test is performed. Wait until the test is finished and "IDLE" is displayed.	
RESET COUNTER TRANSFER UNIT	Use this after replacing the transfer unit.	
RESTORE USER DEFAULT	The settings for Energy Saver, Auto Continue and Chaining Tray are returned to their defaults. The default settings are listed below. Energy Saver: 30 minutes Auto Continue: On Chaining Tray: On	

(5) Network menu

- If the printer is connected and used on a network, the following settings should be specified.
- For details about each setting, contact your network administrator.

IP ADDRESS	Set the IP address of this printer on the network. Using the Up, Down, Prev. and Next keys, enter the value.	
SUBNET MASK	Set the subnet mask value of the network. Using the Up, Down, Prev. and Next keys, enter the value.	
GATEWAY	If a router is used on the network, enter the IP address of the router. Using the Up , Down , Prev . and Next keys, enter the value.	
HW ADDRESS	The Ethernet hardware address for this printer can be seen. (It cannot be changed.)	
HTTP	This specifies whether or not PageScopeLight can be accessed.	
SNMP	This specifies the access privileges for the MIB file.	
DHCP/BOOTP	DHCP: If there is a DHCP server on the network, set whether or not the IP address is automatically assigned by the DHCP server and other network information is loaded. BOOTP: Set whether or not the IP address is automatically assigned by BOOTP and other network information is loaded. Either can be set to "On" or both can be set to "Off".	

(6) Consumable Usage menu

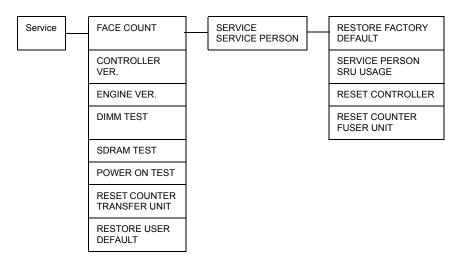
BLACK TONER XXX% REMAINING	Indicates the percentage of black toner remaining in the cartridge.
YELLOW TONER XXX% REMAINING	Indicates the percentage of yellow toner remaining in the cartridge.

MAGENTA TONER XXX% REMAINING	
CYAN TONER XXX% REMAINING	Indicates the percentage of cyan toner remaining in the cartridge.
DRUM UNIT XXX% REMAINING	Indicates the percentage of the life of the drum unit remains.

2-3. Service Mode

This mode is used to check and specify service functions.

2-4. Service mode displays



2-5. Entering service mode

<Procedure>

- 1. With the menu "ENGINE" selected, press the Down key.
- 2. Press the Prev. key until "SERVICE" is displayed.
- 3. Press the Select key to display "FACE COUNT".
- 4. Press both the Select and the Down keys at the same time for at least 2 seconds.
- 5. With "SERVICE PERSON" displayed, press the Down key.

<Cancelling procedure>

· Press the Cancel key.

2-6. Service mode options

(1) RESTORE FACTORY DEFAULT

Select this option to restore all settings to their defaults.
 Language, Energy Saver, Auto Continue, Chaining Tray, IP Address, Subnet Mask, Gateway, DHCP/BOOTP, All toner max life=1500, All remaining=100%, All counters, CPU counters for service, PSL admin password.

(2) SERVICE PERSON SRU USAGE

 Select this option to display the remaining service life for the image transfer belt unit and the drum unit.

(3) RESET CONTROLLER

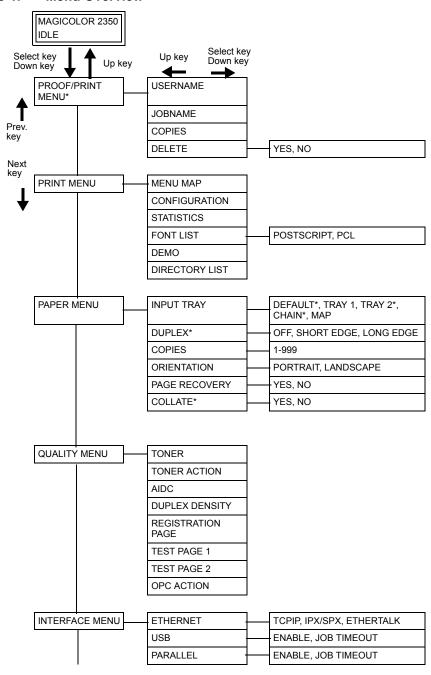
• Select this option to reset the controller.

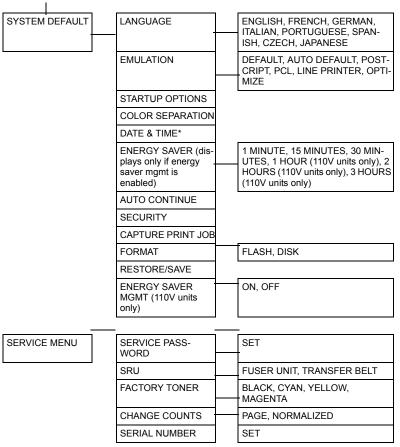
(4) RESET COUNTER FUSER UNIT

• Select this option to reset the counter for the fusing unit.

3. Menu Contents for magicolor 2350

3-1. Menu Overview



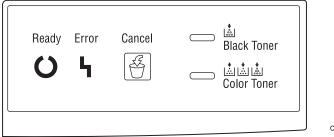


* displays only if the associated option is installed.

4. About the 2300W Control Panel

The control panel, located on the top of the printer, allows you to direct the printer's operation. In addition, it displays the current status of the printer, including any condition that needs your attention.

- One key allows you to control the printer configuration through access to frequently used printer functions.
- Four indicator lights (LEDs) provide printer status information. For details, refer to the Operator's Manual supplied with the unit.



C4131o208AA

4-1. Control Panel Key

Key	Function	
Cancel C41310209AA	 Cancels printing when held down for at least 5 seconds. Overrides a media size/type mismatch when held down for less than 5 seconds. Resets the printer to factory defaults when held down for at least 20 seconds while the printer's front door is open. 	

Indicator Lights 4-2.

Poody	Error	
Ready	EIIUI	
C41310210AA	L C41310211AA	Printer Status****
Green LED	Orange LED	
Off	Off	Power off
On	On	Power-on initialization Canceling a job
On	Off	Printer ready (idle)
Blinking rapidly***	Off	Warming up Calibrating
Blinking normally**	Off	Receiving data Printing
Blinking slowly*	Off	Energy Saver mode
On	Blinking slowly*	Waste toner bottle is nearly full Drum cartridge life has nearly expired
On	Blinking normally**	OPC drum cartridge life has expired
Off	Blinking normally**	Media jam Waste toner bottle is full
Off	Blinking slowly*	Tray 1 Empty
Off	Blinking rapidly***	Fatal error
Off	On	Cover open
Blinking rapidly***		Load [Media Size] in Tray
Blinking normally**		Communication error
* · Plinking clowly 1 blink per overy 2 seconds		

* : Blinking slowly 1 blink per every 2 seconds

** : Blinking normally 1 blink per second

*** : Blinking rapidly 2 blinks per second

**** : For details, check the Status Display utility.

Black Toner	Condition
Orange LED	
Blinking slowly*	Black toner low
On	Black toner empty
Blinking rapidly***	Ready to change black toner cartridge
* Blinking slowly *** Blinking rapidly	1 blink per every 2 seconds 2 blinks per second

Color Toner	Condition
Orange LED	
Blinking slowly*	Color toner low
On	Color toner empty
Blinking rapidly***	Ready to change color toner cartridge
* Blinking slowly *** Blinking rapidly	1 blink per every 2 seconds 2 blinks per second

4-3. Working with the 2300W Status Display

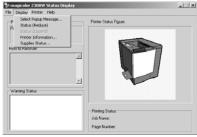
The Status Display displays information about the current status of the computer's local
printer. If you used the CD-ROM Installer to install the printer driver, the Status Display
was also installed. However, if you used Add Printer to manually install the printer driver,
Status Display is not installed.

(1) Environment

• The Status Display functions over parallel and USB connections on all supported Windows operating systems, but only for the default printer.

(2) Opening the Status Display and Showing Supplies Status

- Double-click the Status Display icon in the taskbar. (If the Status Display icon does not appear in the taskbar, from the Start menu, choose Programs, then magicolor 2300W Utilities, and then magicolor 2300W Status.
- 2. From the Display menu, choose Supplies Status to view remaining consumables life.



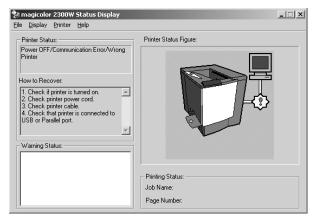


C4131p551AA

C4131P552AA

4-4. Using the Status Display

- When the background of the right-hand printer graphic is green, the printer is in standby mode or a job is printing normally.
- When the background of the right-hand printer graphic is red, there is an error and the job has been interrupted. The status of the printer and the error message are shown in the dialog boxes on the left.



C4131p553AA

* The function areas include:

Printer Status	Displays text messages that describe the current operational status of the printer.
How to Recover	Provides you with instructions to correct problems and recover from error conditions.
Warning Status	Displays text messages that warn you of such conditions as low toner.
Printer Status Figure	Shows a graphic representation of the printer and indicates where there is a problem.
Printing Status	Displays the status of the current print job.

(1) Working with the Display Menu

• Refer to the Status Display's online help for information on all of its functions.

Select Popup Message	Allows you to choose which message(s) you want to bring to the foreground when that particular condition occurs on the printer.
Status (Reduce)	Decreases the size of the Status Display window.
Status (Expand)	Increases the size of the Status Display window.
Printer Information	Displays the total print count, the list of installed options and the memory size.
Supplies status	Displays consumables usage (percentage remaining) for the toner cartridges and OPC drum cartridge. Refer to the Status Display's online help for information on all of its functions.

(2) Working with the Printer Menu

Power On Test	Performs an AIDC (Auto Image Density Control) calibration cycle. Wait until the test is finished, the Ready indicator on the control panel lights up, and the Error indicator goes off (less than 150 seconds).
Maintenance	
Duplex Density	Adjusts the density of the second side of the paper when duplex printing.
Energy Saver	Sets the length of time until the printer enters Energy Saver mode after it no longer receives print jobs or is not operated. If a print job is received while the printer is in Energy Saver mode, the printer warms up, then returns to normal print mode before starting to print.
Auto Continue	When set to On, causes the printer to continue printing even if the specified tray is not loaded with paper of the correct size. If the Auto Continue setting is changed during printing, the setting remains valid for future print jobs.
Toner Replace	Allows you to replace a toner cartridge. From the list, select the color of the toner cartridge to be replaced. Select the capacity of the toner cartridge (1500 or 4500). Click OK. Open the front door, and then replace the toner cartridge.
Print Status Sheet	Prints an LED status sheet, which lists all LED combinations and their related printer status and error conditions.

4-5. Status, Error and Service Messages

Status, error, and service messages are displayed in the Status Display. They provide
information about your printer and help you locate many problems. When the condition
associated with a displayed message has changed, the message is cleared from the Status Display message window.

(1) Standard Status Messages

This message	means
Canceling Job	The job is being cancelled.
Energy Saver	The printer is in Energy Saver mode to reduce power consumption during periods of inactivity. When a print job is received, the printer returns to normal power within 180 seconds.
Printer Idle	The printer is on and ready to receive data.
Printing	The printer is printing.
Processing	The printer is processing data.
Warming Up	The printer is warming up.

(2) Error Messages

This message	means
Put COLOR Toner Cartridge	The indicated toner cartridge is not installed properly.
Drum is not Attached	The OPC drum cartridge is not installed.
No Duplex Unit	Duplex printing was specified with the printer driver, but the duplex unit is not attached to the printer.
Video Under-run	The amount of data to be printed exceeds the printer's internal data transmission speed.
Paper Jam at Duplex Lower	Media has jammed in the duplex unit.
Paper Jam at Duplex Upper	media has janimed in the duplex unit.
Paper Jam in Ejection	Media has jammed between the print engine and the output tray. A media jam has been detected between the fuser and output tray rollers located near the top cover. Exit jams occur in the media eject area.
Paper Jam at Fusing Unit Section	Media has jammed leaving the fuser area.
Paper Jam at Transfer Roller	A media jams has occurred in the transfer roller area. This type of jam means that the media did not make it to the paper exit area.
Paper Jam at Tray 1	Media has jammed while being pulled from tray 1.
COLOR Toner Low	The specified toner is low and should be replaced within 200 pages at 5% coverage of letter/A4 pages.
Drum Near End	The OPC drum cartridge is nearing end of life and should be replaced or the quality eventually fades.
Printer Cover Open	Printer's front door is open and must be closed.
Size Mismatch	The media size set with the printer driver is different from the size of media loaded.
Media Size is "XX".	The media size or type set with the printer driver is different from the type of media loaded into Tray 1.
COLOR Toner Empty	The specified toner cartridge is empty.
Tray 1 Empty	The indicated tray is empty.
Waste Toner Box Near Full	The waste toner bottle is nearly full.
Waste Toner Box Full	The waste toner in the waste toner bottle is full.
Put Waste Toner Box	The waste toner bottle is not installed.

(3) Service Messages

 A service message sometimes occurs as a result of an unusual combination of events, not because of an actual problem. When the printer stops and a service message displays in the Status Display message window, turn the printer off and then back on. This often clears the service message indicator, and printer operation resumes.

This service message	means
AIDC Sensor Error	AIDC sensor error.

Communication Error	A communication error occurred in the parallel or USB interface.
Controller Internal Error	There is an internal error on the controller board.
SDRAM Error on Board	There is an SDRAM error on the controller board.
ROM Error	ROM error.
Service Call: XX	An error has been detected with the item indicated "XX" in the service message.



TROUBLESHOOT-ING

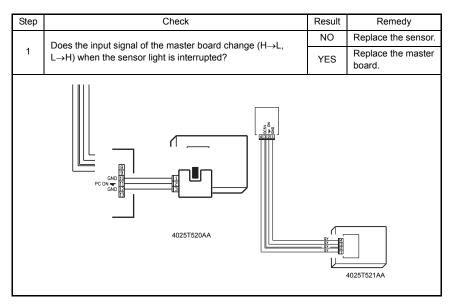
1. Introduction

• Information required for troubleshooting and steps that must be performed are described in this chapter.

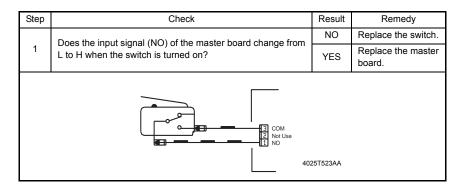
1-1. Checking the electrical components

• If a paper misfeed or malfunction occurs, perform the following operation to check the condition of the electrical components.

(1) Sensor



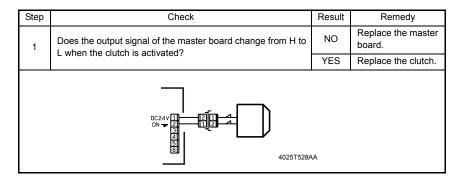
(2) Switch



(3) Solenoid

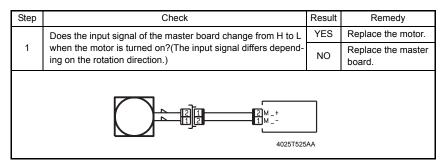
Step	Check		Remedy
1	Does the output signal of the master board change from H to L when the solenoid is turned on?		Replace the master board.
'			Replace the sole- noid.
	1 2 1 2	DC24V ON ▼	

(4) Clutch



(5) Motor

Step	Check	Result	Remedy
1	Does the LOCK signal switch to H when the machine goes into standby?		Replace the master board. Replace the motor.
	Does the REM signal of the master hoard change from H to	YES	Replace the motor.
2	Does the REM signal of the master board change from H to L when the motor is turned on?		Replace the master board.
	GND 1 2 LOCK 3 4025T5.	26AA	



Step	Check	Result	Remedy
	Are the relay connector of the motor and the print jack on the master board correctly connected?		Replace the motor or the master board.
1			Connect the connector or the print jack.
		13 4025T5	527AA

2. Paper Misfeeds

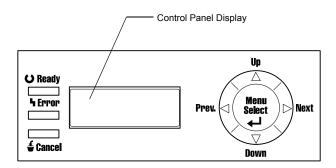
2-1. Perform initial check procedures

• If a paper misfeed occurs, first check for the following conditions.

Condition to be checked	Remedy
Is paper within the product specifications being used?	Change the paper.
Is the paper curled, wrinkled or humid?	Change the paper. Instruct the user on how to store paper.
Are there foreign objects in the transport path or is it dirty or deformed?	Clean or replace the transport path.
Are the rollers dirty, deformed or scratched?	Clean or replace the rollers.
Are the paper guides adjusted to the size of the paper?	Adjust the guides.
Is the actuator operating correctly?	Repair or replace the actuator.

2-2. Paper misfeed displays

• If a paper misfeed occurs, a message indicating the location of the misfeed appears in the display.



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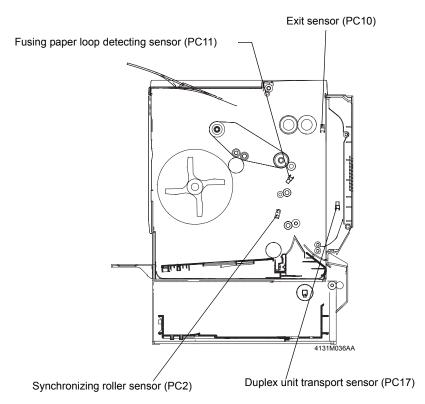
Message: 2300 DL	2350	2300W Status Display Message	Location of misfeed or location of paper	Remedy page reference
MEDIA JAM TRAY1	PAPER JAM TRAY 1	Paper Jam at Tray 1	Paper feed-in sec- tion of manual feed tray	155
MEDIA JAM TRANSFER ROLLER	PAPERJAM TRANSFER	Paper Jam at Transfer Roller	Second image transfer section	156
MEDIA JAM FUSER	PAPER JAM FUSER	Paper Jam at Fusing Unit Sec- tion	Fusing section	156
MEDIA JAM EXIT	PAPER JAM EXIT	Paper Jam in Ejection	Paper feed-out sec- tion of main unit	156
MEDIA JAM TRAY2	PAPER JAM TRAY 2	Paper Jam at Tray 2	Feed-in section of expansion paper cassette unit	157
MEDIA JAM DUPLEX LOWER	PAPER JAM DUPLEX	Paper Jam at Duplex Lower	Feed-in section of duplex unit	157
MEDIA JAM	PAPER JAM	Paper Jam at Duplex Upper	Turnover section of duplex unit	157
DUPLEX UPPER	DUPLEX	Paper Jam at Duplex Upper	Storage section of duplex unit	157

<Display reset procedure>

Paper misfeed in the main unit	Open the appropriate door, remove the misfed paper and any
Description discontinual assistant	remaining paper, and then close the door. (For optional
Paper misfeed in optional equipment	equipment, after removing the paper, load it again.)

2-3. Wiring diagram of misfeed-detecting sensors

• If the duplex unit and lower feeder are installed



2-4. Misfeed detection timing and remedies

(1) Paper misfeed in the paper feed-in section of the manual feed tray (Tray1)

<Detection timing>

Category	Details
Paper misfeed detected in the paper feed-in section of the manual feed tray	If the end of the paper does not interrupt the synchronizing roller sensor (PC2) when a set amount of time has passed after the manual feed paper take-up sensor (SL1) is activated
Paper size error detected in the manual feed tray	If PC2 does not pass through when a set amount of time has passed after the paper interrupts the synchronizing roller sensor (PC2)

Electrical components for detection of the paper misfeed		
Synchronizing roller sensor (PC2) Manual feed paper take-up solenoid (SL1)	Master board (PWB-A)	

	Reference	WARNING DIAGRAM		
Step	Remedy	page	Control signal	Location(electrical component)
1	Perform initial check procedures.	152	-	-
2	Check PC2 operation.	149	PC2_ON	5-D
2	Check SL1 operation.	150	SL1_REM	8-G
3	Replace PWB-A	-	-	-

(2) Paper misfeed in the Second image transfer section

<Detection timing>

Category	Details
Paper misfeed detected in the	If PC2 does not pass through when a set amount of time has passed after the paper interrupts the synchronizing roller sensor (PC2)
Second image transfer section	If the light is not interrupted even after the paper has passed the interruption position for the fusing paper loop detecting sensor (PC11)
Remaining paper detected in the Second image transfer section	If the synchronizing roller sensor (PC2) is interrupted when the machine is turned on, doors and covers are opened, then closed, and paper misfeeds and malfunctions are corrected

<Remedy>

Electrical components for detection of the paper misfeed		
Synchronizing roller sensor (PC2) Fusing paper loop detecting sensor (PC11)	Master board (PWB-A)	

	Reference	WARNING DIAGRAM		
Step	Remedy	page	Control signal	Location(electrical component)
1	Perform initial check procedures.	152	-	-
2	Check PC2 operation.	149	PC2_ON	5-D
3	Check PC11 operation.	149	PC11_ON	9-B
4	Replace PWB-A.	-	-	-

(3) Paper misfeed in the fusing section or the paper feed-out section

<Detection timing>

Category	Details
Paper misfeed detected in the paper feed-out section	If PC10 does not pass through when a set amount of time has passed after the paper interrupts the exit sensor (PC10)
Remaining paper detected in the paper feed-out section	If the exit sensor (PC10) is interrupted when the machine is turned on, doors and covers are opened, then closed, and paper misfeeds and malfunctions are corrected

Electrical components for detection of the paper misfeed		
Exit sensor (PC10)		Master board (PWB-A)

			WARNING DIAGRAM	
Step	Remedy	Reference page	Control signal	Location(electrical component)
1	Perform initial check procedures.	152	-	-
2	Check PC10 operation.	149	PC10_ON	3-D
3	Replace PWB-A.	-	-	-

(4) Paper misfeed in the paper feed-in section of the Second paper cassette (Tray2) 2300 DL & 2350 only

<Detection timing>

Category	Details
Paper misfeed detected in the paper feed-in section	If the end of the paper does not interrupt the synchronizing roller sensor (PC2) when a set amount of time has passed after the 2nd drawer take-up solenoid (SL7) is activated
Remaining paper detected in the Second paper cassette	If the synchronizing roller sensor (PC2) is interrupted when the machine is turned on, doors and covers are opened, then closed, and paper misfeeds and malfunctions are corrected

<Remedy>

Electrical components for detection of the paper misfeed		
2nd drawer take-up solenoid (SL7) Synchronizing roller sensor (PC2)	2nd drawer control board (PWB-A)	

Step Remedy R		Reference	WARNING DIAGRAM	
	page	Control signal	Location(electrical component)	
1	Perform initial check procedures.	152	-	-
2	Check PC2 operation.	149	PC2_ON	5-D
4	Check SL7 operation.	150	SL7_REM	7-F
5	Replace PWB-A.	-	-	-

(5) Paper misfeed in the transport section, turnover section or storage section of the duplex unit

<Detection timing>

Category	Details
Paper misfeed detected in the turnover, storage or transport section	If the paper does not interrupt the duplex unit transport sensor (PC17) when a set amount of time has passed
Remaining paper detected in the transport section	If the duplex unit transport sensor (PC17) is interrupted when the machine is turned on, doors and covers are opened, then closed, and paper misfeeds and malfunctions are corrected

Electrical components for detection of the paper misfeed		
Duplex unit transport sensor (PC17)	Duplex unit control board (PWB-A)	

		Reference	WARNING DIAGRAM	
Step	Remedy	page	Control signal	Location(electrical component)
1	Perform initial check procedures.	152	-	-
2	Check PC17 operation.	149	PC17_ON	7-C

3	Replace PWB-A.	-	-	-

3. Malfunctions and Warnings (2300 DL & 2350)

The CPU performs a self-diagnosis on the condition of the unit, and if a malfunction is detected, the malfunction appears on the display.

Malfunction cancelling procedure

• For malfunctions other than those described above, open, then close the front door or turn the unit off, then on.

Malfunction code			Refer-
2300 DL	2350	Detection timing	ence page
FATAL ERROR CODE: 04H	SERVICE CALL 04 ENGINE BOARD	If abnormal transmissions are detected in the master board (PWB-A)	161
FATAL ERROR CODE: 08H	SERVICE CALL 08 MAIN MOTOR	If the main motor (M1) does not rotate when the unit is turned on	161
FATAL ERROR CODE: 0BH	SERVICE CALL 0B XFER FAN	If the ventilation fan motor (M6) does not rotate when the unit is turned on	161
FATAL ERROR CODE: 0CH	SERVICE CALL 0C PWR SUPPLY FAN	If the power supply cooling fan motor does not rotate when the unit is turned on	162
FATAL ERROR CODE: 0EH	SERVICE CALL 0E SUCTION FAN	If the fusing cooling fan motor does not rotate when the unit is turned on	162
FATAL ERROR CODE: 10H	SERVICE CALL 10 LASER UNIT	If the polygon motor does not rotate	162
FATAL ERROR CODE: 14H	SERVICE CALL 14 XFER ROLLER	If there is no pressure by or separa- tion from the Second image transfer roller	163
FATAL ERROR CODE: 15H	SERVICE CALL 15 XFER BELT	If there is no pressure by or separation from the transfer belt cleaner	163
FATAL ERROR CODE: 16H	SERVICE CALL 16 XFER BELT	If the transfer belt of the transport image transfer belt unit does not rotate	163
FATAL ERROR CODE: 17H	SERVICE CALL 17 TONER RACK	If the toner cartridge does not rotate	164
FATAL ERROR CODE: 18H FATAL ERROR CODE: 19H	SERVICE CALL 18 FUSER UNIT SERVICE CALL 19 FUSER UNIT	If the unit does reach 80° C within 100 seconds from the time that warm-up begins If the temperature of the fusing roller falls below 70° C in 10 seconds during standby If the temperature of the fusing roller increases to 220°C in 0.1 second	164 164

FATAL ERROR CODE: 1AH FATAL ERROR CODE: 1BH	SERVICE CALL 1A FUSER UNIT SERVICE CALL 1B FUSER UNIT	If the temperature of the fusing roller when the fusing unit begins warming up does not remain increased by 5°C for 1 second within the 40 to 50 seconds after the fusing roller begins warming up	165 165
FATAL ERROR CODE: 21H	SERVICE CALL 21 TRANS DET SENS	If a overhead projector transpar- ency is not detected	165
FATAL ERROR CODE: 29H FATAL ERROR CODE: 2AH FATAL ERROR CODE: 2BH FATAL ERROR CODE: 2CH	SERVICE CALL 29 MEM MALF COUNTER SERVICE CALL 2A MEM MALF DATA SERVICE CALL 2B MEM MALF ACCESS	If the EEPROM malfunctioned	165

3-1. Malfunction detection timing and remedies

• If the problem cannot be corrected by the user, a service code is displayed.

(1) FATAL ERROR CODE 04H / SERVICE CALL 04 ENGINE BOARD: Malfunction of the master board

<Remedy>

	Components for dis	play of the warning
Master board (PWB-A)		

		Reference page	WARNING DIAGRAM	
Step	Remedy		Control signal	Location(electrical component)
1	Replace PWB-A.	-	=	-

(2) FATAL ERROR CODE 08H / SERVICE CALL 08 MAIN MOTOR: Malfunction of the main motor

<Remedy>

Components for display of the warning			
Main motor (M1)	Master board (PWB-A) Power unit (PU) Controller control board (PWB-P)		

		Reference page	WARNING DIAGRAM	
Step	Remedy		Control signal	Location(electrical component)
1	Check M1 operation.	151	M1_REM	5-A
3	Replace PU.	-	-	-
4	Replace PWB-A.	-	-	-
5	Replace PWB-P.	-	-	-

(3) FATAL ERROR CODE 0BH / SERVICE CALL 0B XFER FAN: Malfunction of the ventilation fan motor

Components for display of the warning		
	Master board (PWB-A)	
Ventilation fan motor (M6)	Power unit (PU)	
	Controller control board (PWB-P)	

		Reference page	WARNING DIAGRAM	
Step	Remedy		Control signal	Location(electrical component)
1	Check M6 operation.	151	M6_REM	3-E
2	Replace PU.	-	-	-
3	Replace PWB-A.	-	-	-

4	Replace PWB-P.	-	-	-
---	----------------	---	---	---

(4) FATAL ERROR CODE 0CH / SERVICE CALL 0C PWR SUPPLY FAN: Malfunction of the power supply cooling fan motor

<Remedy>

Components for display of the warning		
Power supply cooling fan motor (M4)	Master board (PWB-A) Power unit (PU) Controller control board (PWB-P)	

		Reference	WARNING DIAGRAM	
Step	Remedy	page	Control signal	Location(electrical component)
1	Check M4 operation.	151	M4_REM	3-D
2	Replace PU.	-	-	-
3	Replace PWB-A.	-	-	-
4	Replace PWB-P.	-	=	=

(5) FATAL ERROR CODE 0EH / SERVICE CALL SUCTION FAN: Malfunction of the fusing cooling fan motor

<Remedy>

Components for display of the warning		
Fusing cooling fan motor (M5)	Master board (PWB-A) Power unit (PU) Controller control board (PWB-P)	

		Reference	WARNING DIAGRAM		
Step	Remedy	page	Control signal	Location(electrical component)	
1	Check M5 operation.	151	M5_REM	11-E	
2	Replace PU.	-	-	-	
3	Replace PWB-A.	-	-	-	
4	Replace PWB-P.	-	-	-	

(6) FATAL ERROR CODE 10H / SERVICE CALL LASER UNIT: Malfunction of the polygon motor

Electrical components for detection of the malfunction				
Print head unit	Master board (PWB-A) Power unit (PU) Controller control board (PWB-P)			

		Reference WARNING	DIAGRAM	
Step	Remedy	page	Control signal	Location(electrical
		page	Control Signal	component)

1	Replace the print head unit.	-	-	-
2	Replace PU.	-	-	-
3	Replace PWB-A.	-	-	-
4	Replace PWB-P.	-	-	-

(7) FATAL ERROR CODE 14H / SERVICE CALL 14 XFER ROLLER: Incorrect pressure by or separation from the Second image transfer roller

<Remedy>

Electrical components for detection of the malfunction			
Image transfer roller pressure contact solenoid (SL2) Master board (PWB-A)			
Image transfer roller pressure positioning sensor (PC7)	Controller control board (PWB-P)		

		Reference	WARNING DIAGRAM	
Step	Remedy	page	Control signal	Location(electrical component)
1	Check PC7 operation.	149	PC7_ON	5-C
2	Replace the Second image transfer roller pressure/separation mechanisms.	-	-	-
3	Check SL2 operation.	150	SL2_REM	5-E
4	Replace PWB-A.	-	-	-
5	Replace PWB-P.	-	-	-

(8) FATAL ERROR CODE 15H / SERVICE CALL 15 XFER BELT: Incorrect pressure by or separation from the transfer belt cleaner

<Remedy>

Electrical components for detection of the malfunction					
Belt cleaner pressure contact solenoid (SL4)	Master board (PWB-A)				
Belt cleaner positioning sensor (PC9)	Controller control board (PWB-P)				

		Reference	WARNING DIAGRAM	
Step	Remedy	page	Control signal	Location(electrical component)
1	Check PC9 operation.	149	PC9_ON	3-G
2	Replace the belt cleaner pressure/separation mechanisms.	-	-	-
3	Check SL4 operation.	150	SL4_REM	2-H
4	Replace PWB-A.	-	-	-
5	Replace PWB-P.	-	-	-

(9) FATAL ERROR CODE 16H / SERVICE CALL 16 XFER BELT: Incorrect transfer belt rotation

Electrical components for detection of the malfunction			
-	-		

		Reference WA	WARNII	RNING DIAGRAM	
Step	Remedy	page	Control signal	Location(electrical component)	
1	Replace the image transfer belt unit.	-	-	-	

(10) FATAL ERROR CODE 17H / SERVICE CALL 17 TONER RACK: Incorrect developing rack rotation

<Remedy>

Electrical components for detection of the malfunction			
Rack motor (M2) Rack clutch (CL1) Rack home position sensor (PC4)	Master board (PWB-A) Controller control board (PWB-P)		

		Reference page	WARNING DIAGRAM	
Step	Remedy		Control signal	Location(electrical component)
1	Check PC4 operation.	149	PC4_ON	3-F
2	Check CL1 operation.	150	CL1_REM	2-F
3	Check M2 operation.	151	-	3-E
4	Replace PWB-A.	-	-	-
5	Replace PWB-P.	-	-	-

(11) FATAL ERROR CODE 18H /SERVICE CALL 18 FUSER UNIT: Faulty warm-up detected

(12) FATAL ERROR CODE 19H / SERVICE CALL 19 FUSER UNIT: Incorrect fusing roller low temperature

Electrical components for detection of the malfunction		
Fusing roller heater lamp (H1) Fusing pressure roller heater lamp (H2) Thermostat (TS1)	Master board (PWB-A) Power unit (PU)	

				WARNING DIAGRAM	
Step	Check	Check Result Remedy		Control sig- nal	Location(electri- cal component)
1	Check for continuity at H1 and H2.	NO	Replace H1 and H2.	-	2-B, 2-C
2	Check for continuity at TS1.	NO	Replace TS1.	-	2-C
3	Is the resistance at TH1 infinite? (between CN18-1 and -2 on the		Clean TH1 or replace the fusing unit.	HEATER	2-D
	thermistor)	NO	Replace PU.		
		140	Replace PWB-A.		

- (13) FATAL ERROR CODE 1AH / SERVICE CALL 1A FUSER UNIT: Incorrect fusing roller high temperature
- (14) FATAL ERROR CODE 1BH / SERVICE CALL 1B FUSER UNIT: Disconnection at thermistor

<Remedy>

Electrical components for detection of the malfunction		
Thermistor (TH1)	Master board (PWB-A) Controller control board (PWB-P)	

			Result Remedy	WARNING DIAGRAM	
Step	Check	Result		Control signal	Location(electrical component)
	1 (between CN18-1 and -2 on the thermistor)	YES	Clean TH1.		2-D
1			Replace the fusing unit.	HEATER	
		NO	Replace PU.		
	l N		Replace PWB-A		

(15) FATAL ERROR CODE 21H / SERVICE CALL 21 TRANS DET SENS: Malfunction of the OHP detecting sensor

<Remedy>

Electrical components for detection of the malfunction		
OHP detecting sensor (PC3A)	Master board (PWB-A) Controller control board (PWB-P)	

		Reference	WARNING DIAGRAM		
Step	Remedy	page	Control signal	Location(electrical component)	
1	Check PC3A operation.	149	PC3_REM	5-D	
2	Replace PWB-A.	-	-	-	
3	Replace PWB-P.	-	-	-	

- (16) FATAL ERROR CODE 29H / SERVICE CALL 29 MEM MALF COUNTER: Malfunction of the EEPROM (memory counter error)
- (17) FATAL ERROR CODE 2AH / SERVICE CALL 2A MEM MALF DATA: Malfunction of the EEPROM (memory data error)
- (18) FATAL ERROR CODE 2BH / SERVICE CALL 2B MEM MALF ACCESS: Malfunction of the EEPROM (memory access error)
- (19) FATAL ERROR CODE 2CH: Malfunction of the EEPROM (memory recognition error)

Electrical components for detection of the malfunction		
EEPROM		Master board (PWB-A)

			Reference page	WARNING DIAGRAM	
	Step	Remedy		Control signal	Location(electrical com- ponent)
ı	1	Replace the EEPROM.	-	-	-
ļ	2	Replace PWB-A.	-	-	-

3-2. Power supply malfunctions

(1) No power

Electrical components for detection of the malfunction		
Power unit (PU) Power switch (S1)	Master board (PWB-A)	

		Reference page	WARNING DIAGRAM		
Step	Remedy		Control signal	Location(electrical com- ponent)	
1	Check if the power supply cord is connected to the main unit.	-	-	-	
2	Check S1 operation.	-	-	2-A	
3	Replace the power unit.	-	-	-	
4	Replace PWB-A.	-	-	-	

4. Image Quality Troubleshooting

• If an image quality problem occurs, replace the toner cartridge and drum cartridge with new ones, and then determine whether the cause of the problem is due to one of the cartridges or another part of the main unit.

Symptom	Cause	Remedy		
Blank print	Faulty PC drum	Replace the drum cartridge.		
		Replace the print head unit.		
1.	Improper laser exposure	Replace the master board (PWB-A).		
		Replace the controller control board.		
		Replace the master board (PWB-A).		
09510211	Poor developing bias	Replace the controller control board.		
Black print		Replace the print head.		
Slack print	Improper laser exposure	Replace the controller control board.		
		Replace the master board (PWB-A).		
	Improper charging	Replace the controller control board		
0951o213				
White spots	Damp paper	Change the paper.		
\bigcap		Replace the Second image transfer roller.		
4BCDE		Replace the master board (PWB-A).		
ABC' E	Poor image transfer	Replace the transport image transfer belt unit.		
APCDE	To the state of th	Replace the controller control board.		
0951o220				
	1	l		

Symptom	Cause	Remedy
Toner smudges on back-	Dirty fusing roller	Replace the fusing roller.
side of paper	Dirty image transfer roller	Replace the Second image transfer roller.
A A SCDE ABCDE ABCDE	Dirty paper transport path	Clean the paper transport path.
	No toner in toner cartridge	Replace the toner cartridge.
Low image density	Faulty PC drum (end of service life)	Replace the drum cartridge.
45055	Poor developing bias	Replace the master board (PWB-A).
ABCDE ABCDE	Poor developing bias	Replace the controller control board.
ABCDE		Replace the Second image transfer roller.
ABCDE	Dear image transfer	Replace the master board (PWB-A).
	Poor image transfer	Replace the transport image transfer belt unit.
0951o214		Replace the controller control board.
Foggy background	Poor developing bias	Replace the master board (PWB-A).
ADODE	i our developing bias	Replace the controller control board.
ABCDE ABCDE ABCDE ABCDE	Faulty PC drum (end of service life)	Replace the drum cartridge.

Symptom	Cause	Remedy		
White/Black lines and	Scratched PC drum	Replace the drum cartridge.		
bands		Replace the print head unit.		
		Replace the master board (PWB-A).		
ABCDE ABCDE ABCDE ABCDE ABCDE	Defective print head	Replace the controller control board.		
Offset image	Defective fusing roller	Replace the fusing roller.		
		Replace the Second image transfer roller.		
ABCDE ABCDE ABCDE ABCDE	Faulty image transfer roller	Replace the image transfer belt unit.		
0951o219				



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magicolor[®] 2300 SERIES Service Manual



Parts Manual

1750074-001A

PREFACE 前書き

- The part numbers listed in Parts Catalog are those which were assigned to the parts
 making up the machine at the time machine was originally introduced onto the market.
- 1. パーツカタログには、販売当初の機械を構成している部品が記載されています。
- 2. Parts whose INDEX numbers are shown white against a black background in the illustration are those to be used in only certain market areas. These part numbers are given in the lower half part of the list section. Check the SFIX No. listed in SFIX CHART on page II to find which part number is applicable to your own area.
- 2. イラスト部の表示番号(INDEX)が白抜き数字で行われている部品 は仕向部品です。それらの部品番号はリスト部の下段に記載されて います。SFIX No. を II ページの SFIX CHARTで照合して、部品番号 (PART No.) を使用してください。
 - 注)仕向部品……・地域により部品番号が異なる、または、一部 地域にだけ使用されている部品。
- 3. Parts whose INDEX numbers are shown black against a white background in the illustration are those to be used in all market areas. These parts are listed on the upper half part of the list section.
- 3. 全地域共通で使用出来る部品は SFIX No. の記載をしておりません。 また、それらの部品はリスト部の上段に記載されています。
- 4. If "NS" follows a part number given in the list section, it indicates that we do not keep a stock of the part. The part is not required for ordinary service jobs, either.
- 4. リスト部の部品番号の右側に NS の表示がある部品は、常備在庫されていない部品です。 また、通常のサービスを行う上でも不要です。
- 5. If "RP" is shown in the REC column of the list section, it indicates that the part is functionally important.
- リスト部の REC 欄に RP の表示がある部品は、機能的に重要であることを表しています。
- 6. In the exploded views in this Parts Catalog the parts (Screws & Washes, etc...) which are indicated with a "four-digit" numbers are listed in numerical order in the section "SCREWS AND WASHERS". Please check these "four-digit" numbers with the part numbers ("ten-digit" numbers) which should be used for ordering the part.
- 6. ネジ・ワッシャー類は、数字 4 桁の表示番号を使用しています。ネ ジ・ワッシャー部で照合の上、10 桁の部品番号を使用してくださ い。
- 7. All part numbers consist of "ten-digit" which should all be quoted when ordering a part. The price of parts can be obtained by referring to the "Parts Price List" which is separately issued.
- 7. 部品番号は 10 桁で構成されています。注文は必ず 10 桁の部品番号 を使用してください。

8. All infomation contained in this Parts Catalog is subject to change.

8. このパーツカタログの内容は予告なく変更されることがあります。

Parts Catalog

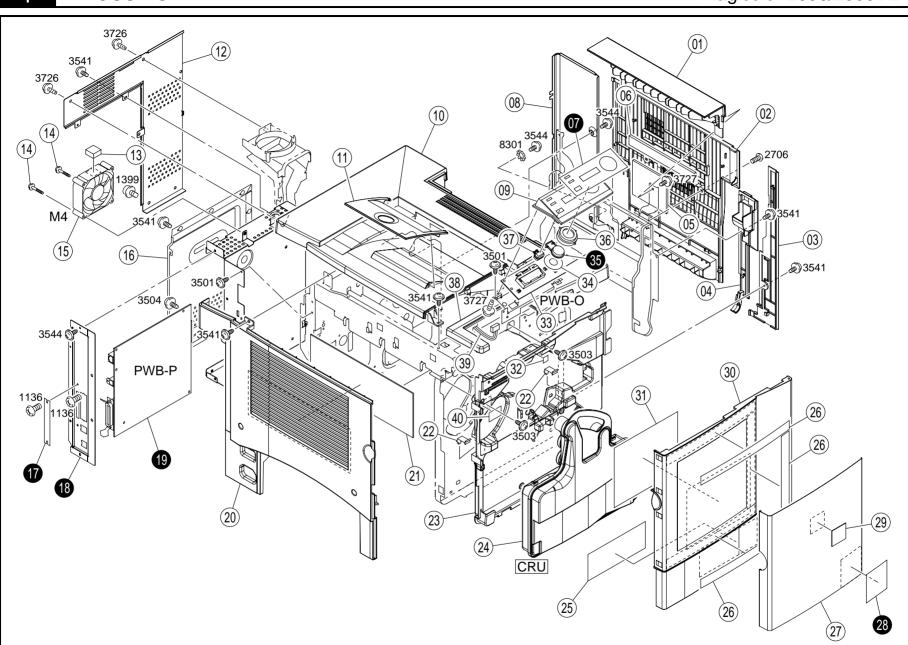
SFIX CHART

SFIX No.	COUNTRY	VOLTAGE	FREQUENCY (Hz)	PAPER SIZE	SFIX No.	COUNTRY	VOLTAGE	FREQUENCY (Hz)	PAPER SIZE
011	JAPAN (magicolor 2300DL)	100V	50/60	METRIC	213	ASIA (magicolor 2300DL)	220V	50	METRIC
012	JAPAN (magicolor 2350)	100V	50/60	METRIC	311	USA/CANADA (magicolor 2300DL)	110V	60	INCH
211	EUROPE (magicolor 2300DL)	220V	50	METRIC	312	USA/CANADA (magicolor 2350)	110V	60	INCH
212	EUROPE (magicolor 2350)	220V	50	METRIC					

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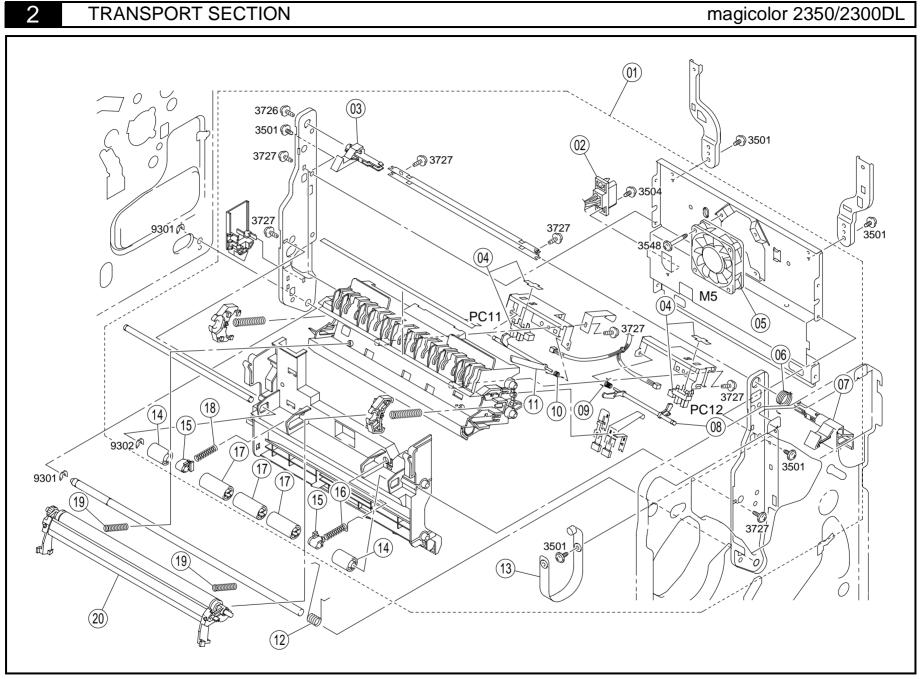
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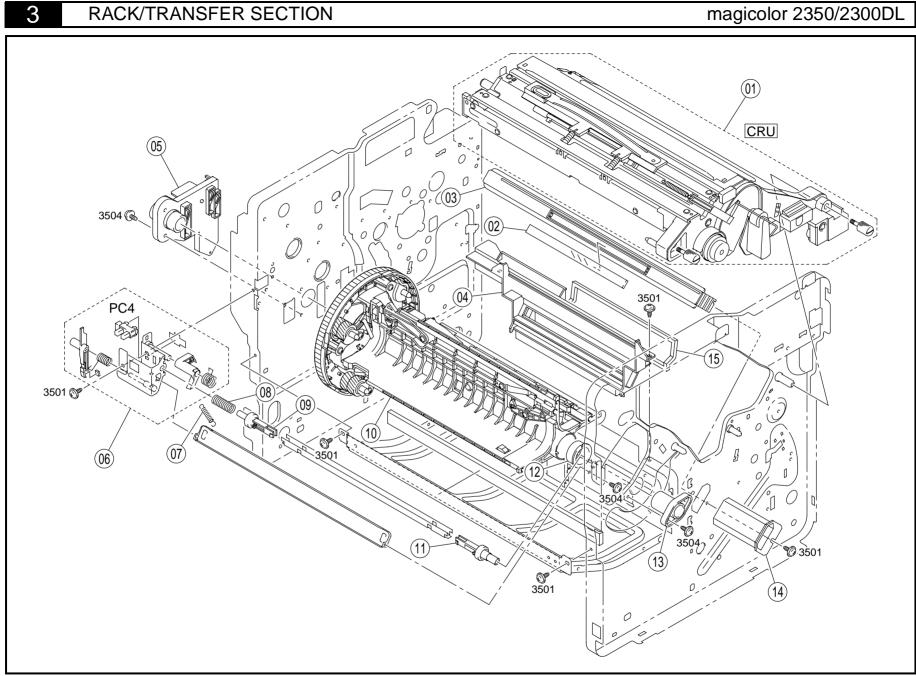


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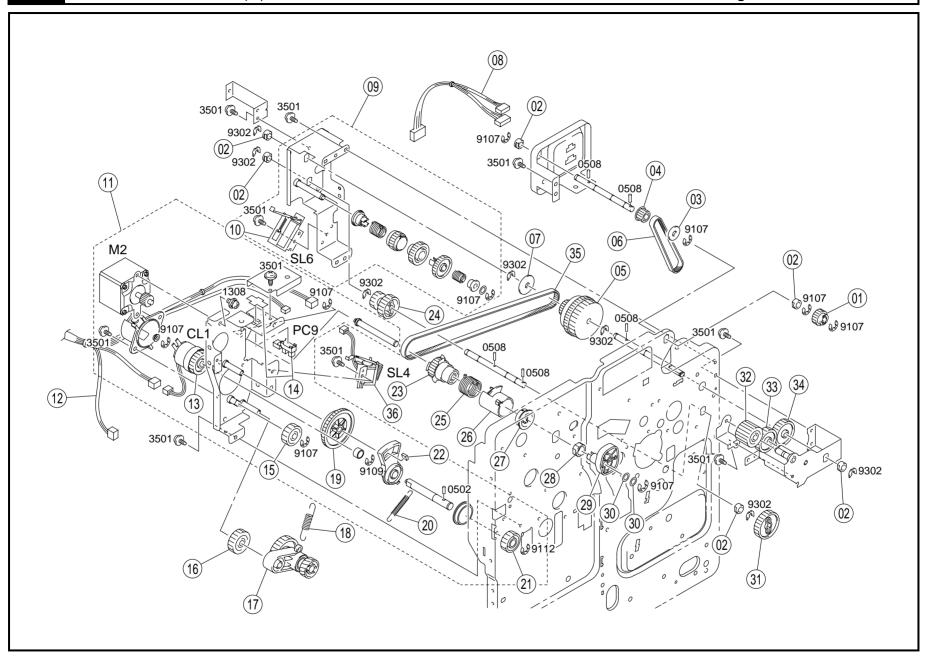
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66 4131-1024-01 SEAL 1 1 29 4120-7362-01 FABEL 1 1 30 4131-1002-05 FROM COVER PROPER 1 1 30 4131-1002-05 FROM COVER 1 1 32 4131-7414-01 LABEL 1 1 33 4131-1010-03 FROM COVER 1 1 33 4131-1010-03 FROM COVER 1 1 33 4131-1010-03 FROM COVER 1 1 34 4131-1117-01 FROM COVER 1 1 34 4131-1117-01 FROM COVER 1 1 34 4131-1117-01 FROM COVER 1 1 36 4131-1111-02 ENTER 1 1 37 4131-1111-02 ENTER 1 1 39 4131-6836-02 ENTER 1 1 39 4131-1111-03 COVER 1 1 39 4131-111-03 COVER 1 1 39 4131-111-103 COVER 1 1 39		ŀ	
4131-1007-03 RIGHT COVER		ŀ	
99 4131-1110-02 PANEL		ŀ	
10 4131-1010-06 TOP COVER 上力パー		ŀ	
11 4131-1012-04 TRAY トレイコ TRAY トロイコ TRAY トレイコ TRAY FROM TRAY TRAY TRAY TRAY TRAY TRAY TRAY TRAY		ŀ	
12	(PWB-O)	-0)	
13 4131-2322-01 SOUND SHELD 防音板 20 4131-113-02 駅1TON ボタン BUTTON		ŀ	
14		ŀ	
15 9313-1100-41 FAN MOTOR COOLING (M4) RP 1 38 4131-1101-03 COVER		ŀ	
16		ŀ	
LEFT COVER		ŀ	
21		ŀ	
PLATE SPRING 板ばね		ŀ	
1 211, 212, 213, 311, 312			
1 011, 012 1 011, 012 1 011, 012 1 011, 012 1 011, 012 1 011, 012 1 011, 012 1 011, 012 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 011, 211, 213, 311 1 012, 212, 312 1 011, 211, 213, 311 1 012, 212, 312 1 011, 211, 213, 311 1 012, 212, 312 1 011, 211, 213, 311 1 012, 212, 312 1 011, 211, 213, 311 1 012, 212, 312 1 011, 211, 213, 311 1 012, 212, 312 1 011, 211, 213, 311 1 012, 212, 312 1 011, 211, 213, 311 1 012, 212, 312 1 011, 211, 213, 311 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312 1 012, 212, 312		_	_
1			
17 4131-2357-01 COVER カパー			
18 4131-2354-02 BRACKET magicolor 2300DL 取付板 pyth pyth pyth pyth pyth pyth pyth pyth			
19 4131-6006-04 PWB ASSY CONTROL (PWB-P) RP 1 011, 211, 213, 311			
19			
19			
28 4131-7322-01			
28 4131-7323-02 LABEL magicolor 2350 1 012, 212, 312 ラベル			
ボタン			
35 4131-1115-02 BUTTON 1 011, 012			



101 4131-085-06	INDEX	PART NO.	PART	NAME	REC	QTY	INDEX	PART NO.	PART NAME	RE
02 4131-680-0-1	01	4131-0365-06	SIDE OPEN ASSY		RP	1	19	4131-4052-01	PRESSURE SPRING	
03	02	4131-6820-01	開閉 WIRE HARNESS ASSY			1	20	4131-0370-03	圧縮コイルはね <u>2ND_TRA</u> NSFE <u>R</u> ROLLER ASSY	F
9313-1100-51	03	4131-3607-01	ハーネス A S S Y PAWL			1			2 次転写ローラー 	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	04	4131-0902-01	Л РНОТО INTERRUPUTER	(PC11.12)		2				
1	05	9313-1100-51	フォトインタラブター FAN MOTOR	FUSING COOL (M5)		1				
13 413-3608-05 PAML	06	4131-3604-01	TORSION SPRING	正看 / 印却		1				
Addition	07	4131-3606-05	PAWL			1				
10 4131-3628-01 おとりコイルはね TORSION SPRING ねじりコイルはね ACTUATOR アクチュエータ TORSION SPRING ねじりコイルはね ACTUATOR アクチュエータ TORSION SPRING はしりコイルはね BAND パンド ACTUATOR	08	4131-3618-01	ACTUATOR			1				
10 4131-3628-01 TORSION SPRING ねじりコイルばね ACTUATOR アクチュエータ TORSION SPRING ねじりコイルばね BAND かいド BAND かいド BOLL ころ BUSHING 軸受 PRESSURE SPRING 圧縮コイルばね ROLL 3 4131-3535-01 Email 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	09	4131-3619-02	アクチュエータ TORSION SPRING			1				
11 4131-3626-02 ACTUATOR アクチュエータ 12 4131-3630-02 TORSION SPRING 1 1	10	4131-3628-01	TORSION SPRING			1				
13 4131-3610-02 おとりコイルはね BAND 1 1	11	4131-3626-02	ねじりコイルばね ACTUATOR			1				
13 4131-3610-02 BAND パンド ROLL 2 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	12	4131-3630-02	アクチュエータ TORSION SPRING			1				
14 4131-3541-01 ROLL ころう BUSHING 2 2 BUSHING 2 2 PRESSURE SPRING	13	4131-3610-02	IBAND			1				
16 4131-3539-02 軸受 PRESSURE SPRING E	14	4131-3541-01	ROLL			2				
17 4131-3535-01 ROLL 3 3 1 18 4131-3540-02 PRESSURE SPRING 1 日 日前コイルばね 1 1 日前コイルばね 1 日前コイルばね 1 1 日前コイルは 1 日前田和田和田和田和田和田和田和田和田和田和田和田和田和田和田和田和田和田和田和	15	4131-3537-03	E P B P S HING			2				
17 4131-3535-01 ROLL 3 3 1 18 4131-3540-02 PRESSURE SPRING 1 L 圧縮コイルばね 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16	4131-3539-02	軸受 PRESSURE SPRING			1				
18 4131-3540-02 PRESSURE SPRING 1 1 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	17	4131-3535-01	ROLL			3				
INDEX PART NO. PART NAME REC QTY SFIX	18	4131-3540-02	PRESSURE SPRING			1				
	INDEX	PART NO.	PART	NAME	REC	QTY			SFIX	

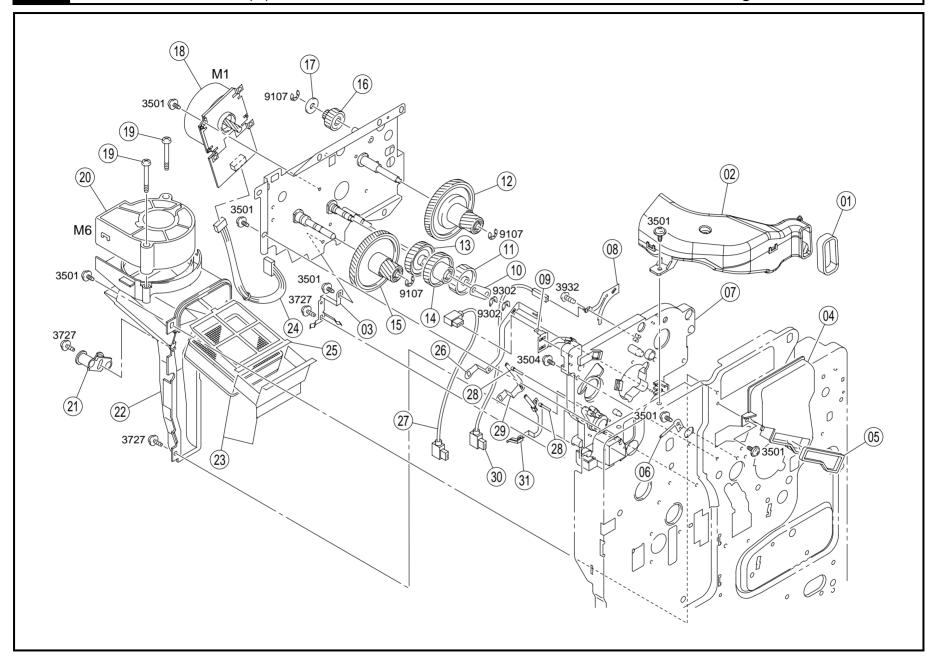


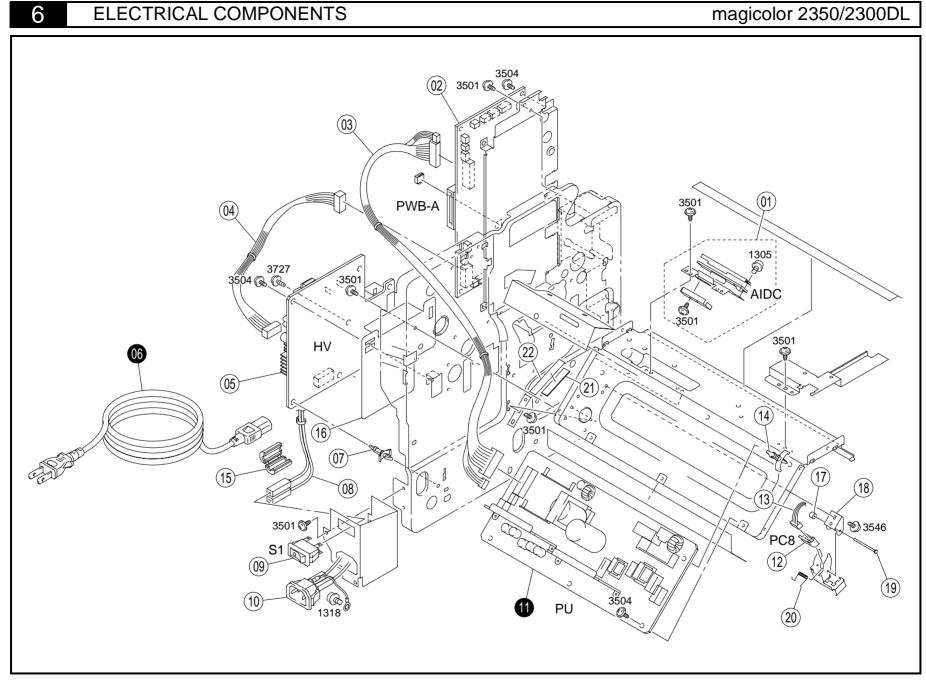
INDEX	PART NO.	PART NAME	REC	QTY	INDEX	PART NO.	PART NAME	REC	QTY
01	4337-210	TRANSFER ASSY 中間転写(M Q I)	RP	1					
02	4131-2015-02	中間転与(M Q I) FILTER _		1					
03	4131-2012-03	FILTER フィルタ トロLDER		1					
04	4131-2009-02	ホルダ COVER カバー		1					
05	4131-0398-01	カバー HOLDER ASSY HV 接点,ASSY		1					
06	4131-0341-02	LLOCK LEVER ASSY	RP	1					
07	4131-2988-01	フックロックレハー TENSION SPRING		1					
80	4131-2984-01	引張コイルばね PRESSURE SPRING		1					
09	4131-2986-02	引張コイルばね PRESSURE SPRING 圧縮コイルばね HOLDER		1					
10	4131-0316-02			1					
11	4131-2983-02	RACK ASSY ラック HOLDER		1					
12	4131-2705-01	ボルダ COLLAR カラー SHAFT シャフト		1					
13	4131-2710-02	カラー SHAFT		1					
14	4131-2011-01	RAIL		1					
15	4131-2013-02	レール SEAL シール		1					
		シール							
INDEX	PART NO.	PART NAME	REC	QTY		I	SFIX	ı	
INDEX	PART NO.	PART NAME	REC	QTY			SFIX		
INDEX	PART NO.	PART NAME	REC	QTY			SFIX		
INDEX	PART NO.	PART NAME	REC	QTY			SFIX	l	
INDEX	PART NO.	PART NAME	REC	QTY			SFIX	l	
INDEX	PART NO.	PART NAME	REC	QTY			SFIX		
INDEX	PART NO.	PART NAME	REC	QTY			SFIX		
INDEX	PART NO.	PART NAME	REC	QTY			SFIX		
INDEX	PART NO.	PART NAME	REC	QTY			SFIX		
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INDEX	PART NO.	PART NAME	REC	QTY			SFIX		
INDEX	PART NO.	PART NAME	REC	QTY			SFIX		
INDEX	PART NO.	PART NAME	REC	QTY			SFIX		
INDEX	PART NO.	PART NAME	REC	QTY			SFIX		
INDEX	PART NO.	PART NAME	REC	QTY			SFIX		
INDEX	PART NO.	PART NAME	REC	QTY			SFIX		
INDEX	PART NO.	PART NAME	REC	QTY			SFIX		
INDEX	PART NO.	PART NAME	REC	QTY			SFIX		
INDEX	PART NO.	PART NAME	REC	QTY			SFIX		



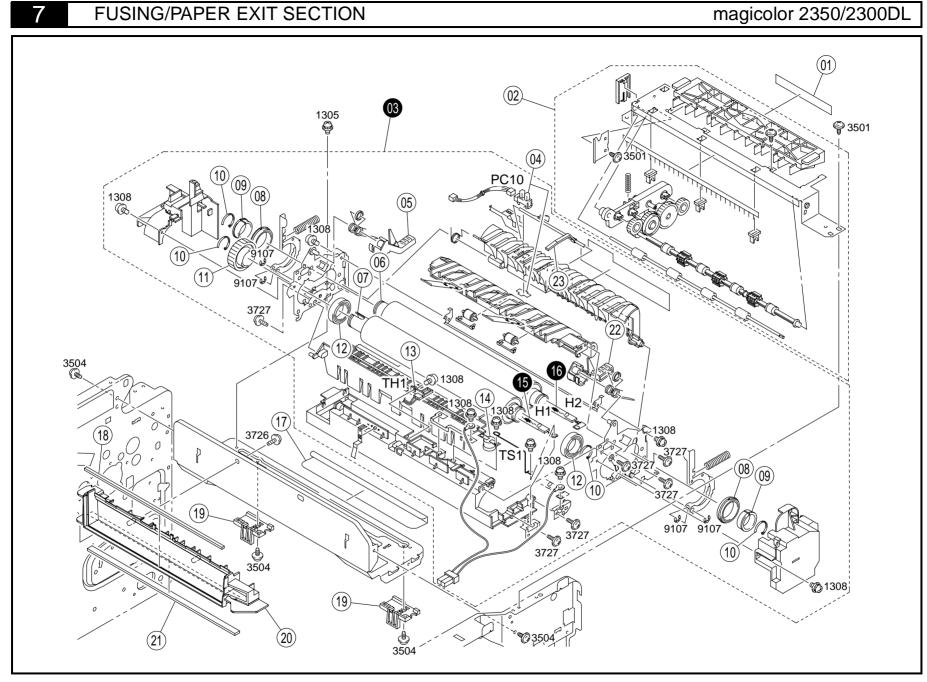
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02 12	131-2596-01	1	ME		REC	QTY	INDEX	PART NO.	PART NAME	R
		GEAR				1	19	4131-2602-02	GEAR	
03 4	200-3121-07	ギヤ BUSHING シ゛クウケ				6	20	4120-1213-02	ギヤ TENSION SPRING	
	131-2535-01	IFLANGE				1	21	4131-2611-01	引張コイルばね GEAR	
04 4	131-2595-01	フランジ PULLEY				1	22	4131-2805-01	ギヤ SOUND SHIELD	
05 4	131-0151-01	プーリ DRIVING ASSY				1	23	4131-2561-01	防音材 PULLEY	F
06 4	131-2599-01	駆動 ASSY TIMING BELT				1	24	4131-2571-01	プーリ GEAR	
07 4	131-2560-01	タイミングベルト FLANGE フランジ				1	25	4131-2564-02	キヤ TORSION SPRING	ı
08 4	131-6832-02	WIRE HARNESS ASSY				1	26	4131-2563-02	ねじりコイルばね RATCHET	
09 4	131-0355-02	ハーネス ASSY FUSING DECELERTION UNIT			RP	1	27	4131-2592-14	ラチェット DRUM	ı
10 93	321-2100-61	定着減速駆動 SOLENOID	FUSING	(SL6)		1	28	4131-2589-01	ドラム BUSHING	
11 4	131-0302-01	フラッパーソレノイド RACK DRIVE ASSY ラック駆動 ASSY	定着ループ		RP	1	29	4131-2562-14	軸受 CAM	
12 4	131-6811-03	WIRE HARNESS ASSY				1	30	1200-1342-05	カム <u>W</u> ASḤER	
13 93	322-1200-11	ハーネス ASSY CLUTCH	RACK ラック	(CL1)		1	31	4131-2559-01	「ワッシャー 「GEAR	
14 4	131-0902-01	クラッチ PHOTO INTERRUPUTER	CLEANER	(PC9)		1	32	4131-2553-01	ギヤ GEAR	
15 4	131-2615-01	フォトインタラプター GEAR	クリーナ位置			1	33	4131-2552-01	ギヤ GEAR	
16 4	131-2608-01	ギヤ GEAR				1	34	4131-2549-02	ギヤ GEAR	
17 4	131-0752-01	ギヤ LEVER <u>A</u> SSY				1	35	4131-2593-01	ギヤ TIMING BELT	
18 4	131-2621-01	レバーアッセン TENSION SPRING 引張コイルばね				1	36	9321-2100-41	タイミングベルト SOLENOID CLEANER (SL4) フラッパーソレノイド クリーナ圧離)
INDEX	PART NO.	PART NA	ME		REC	QTY			SFIX	



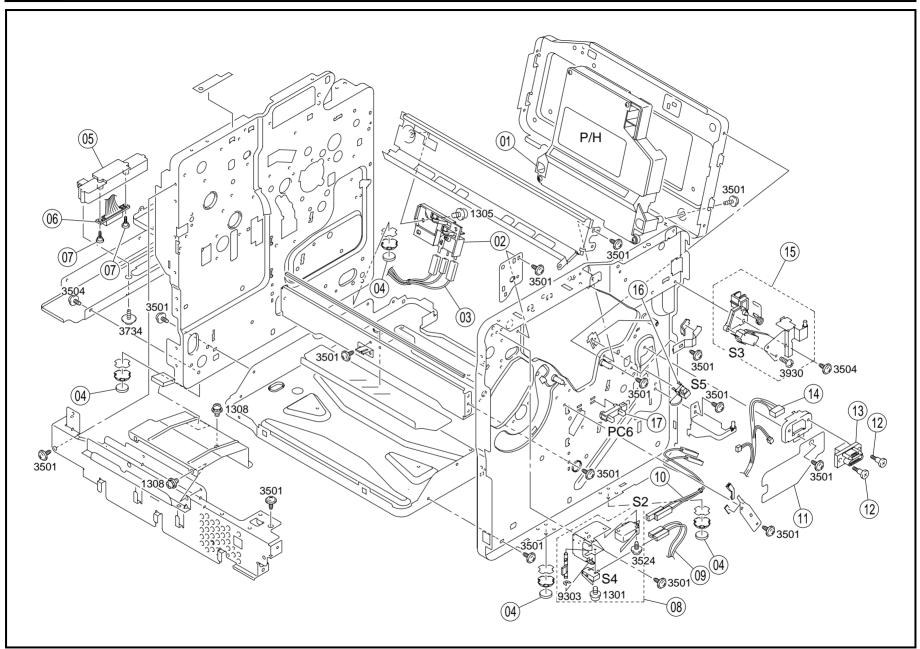


INDEX	PART NO.	PART	NAME	REC	QTY	INDEX	PART NO.	PART NAME	REC	QTY
01	4131-0399-01	AIDC ASSY		RP	1	21	4131-2052-01	BRAKE		1
02	4131-0907-01	A I D C A S S Y ENGINE BOARD	MASTER (PWB-A) マスター	RP	1	22	4131-2053-01	ブレーキ材 PLATE SPRING		1
03	4131-6808-01	エンジンボード WIRE HARNESS ASSY	マスター		1			板ばね		
04	4131-6825-01	ハーネス A S S Y WIRE HARNESS ASSY			1					
05	4131-6211-05	ハーネス A S S Y HV TRANSFORMER	(HV)	RP	1					
07	9384-1900-58	高圧ユニット PWB SUPPORT 12.7H			2					
08	4131-6802-02	キハ゛ンサホ゜ート WIRE HARNESS ASSY			1					
09	0993-6303-01	ハーネス ASSY SWITCH	MAIN (S1)	RP	1					
10	4131-6801-01	スイッチ WIRE HARNESS ASSY	メイン		1					
12	9335-1100-21	ハーネス ASSY SOLID STATE SWITCH	NEW TONER (PC8)	RP	1					
13	4131-6824-01	反射型フォトスイッチ WIRE HARNESS ASSY ハーネス A S S Y	トナー新品検出		1					
14	9384-1900-57	PWB SUPPORT 9.53H			3					
15	9326-1810-51	キハ゛ンサホ゜ート FERRITE CORE フェライトコア			1					
16	4131-2312-02	COVER			1					
17	1200-2105-05	カバー COLLAR			1					
18	4131-2340-01	カラー BRACKET			1					
19	4002-3534-02	取付板 SHAFT			1					
20	4131-2341-01	シャフト TORSION SPRING ねじりコイルばね			1					
NDEX	PART NO.	PART	NAME	REC	QTY			SFIX	•	
06	9381-4100-82	POWER CORD プラグ付電源コード			1	011, 012				
	0204 4400 04	フラグ13 电源コート POWER CORD			1	311, 312				
06	9381-4100-91	プラガ付重酒 コード				1				
06 06	9381-4101-01	プラグ付電源コード POWER CORD			1	211, 212				
		プラグ付電源コード POWER CORD プラグ付電源コード			1	211, 212 213				
06	9381-4101-01	プラグ付電源コード POWER CORD プラグ付電源コード POWER CORD プラグ付電源コード POWER SUPPLY	(PU)	RP	1					
06 06	9381-4101-01 9381-4910-21	プラグ付電源コード POWER CORD プラグ付電源コード POWER CORD プラグ付電源コード POWER SUPPLY 直流安定化電源 POWER SUPPLY	(PU) (PU)	RP RP	1	213	. 311, 312			
06 06 11	9381-4101-01 9381-4910-21 4131-6201-04	プラグ付電源コード POWER CORD プラグ付電源コード POWER CORD プラグ付電源コード POWER SUPPLY 直流安定化電源			1	213 011, 012,	. 311, 312			
06 06 11	9381-4101-01 9381-4910-21 4131-6201-04	プラグ付電源コード POWER CORD プラグ付電源コード POWER CORD プラグ付電源コード POWER SUPPLY 直流安定化電源 POWER SUPPLY			1	213 011, 012,	. 311, 312			
06 06 11	9381-4101-01 9381-4910-21 4131-6201-04	プラグ付電源コード POWER CORD プラグ付電源コード POWER CORD プラグ付電源コード POWER SUPPLY 直流安定化電源 POWER SUPPLY			1	213 011, 012,	. 311, 312			
06 06 11	9381-4101-01 9381-4910-21 4131-6201-04	プラグ付電源コード POWER CORD プラグ付電源コード POWER CORD プラグ付電源コード POWER SUPPLY 直流安定化電源 POWER SUPPLY			1	213 011, 012,	. 311, 312			
06 06 11	9381-4101-01 9381-4910-21 4131-6201-04	プラグ付電源コード POWER CORD プラグ付電源コード POWER CORD プラグ付電源コード POWER SUPPLY 直流安定化電源 POWER SUPPLY			1	213 011, 012,	. 311, 312			
06 06 11	9381-4101-01 9381-4910-21 4131-6201-04	プラグ付電源コード POWER CORD プラグ付電源コード POWER CORD プラグ付電源コード POWER SUPPLY 直流安定化電源 POWER SUPPLY			1	213 011, 012,	. 311, 312			
06 06 11	9381-4101-01 9381-4910-21 4131-6201-04	プラグ付電源コード POWER CORD プラグ付電源コード POWER CORD プラグ付電源コード POWER SUPPLY 直流安定化電源 POWER SUPPLY			1	213 011, 012,	. 311, 312			
06 06 11	9381-4101-01 9381-4910-21 4131-6201-04	プラグ付電源コード POWER CORD プラグ付電源コード POWER CORD プラグ付電源コード POWER SUPPLY 直流安定化電源 POWER SUPPLY			1	213 011, 012,	. 311, 312			
06 06 11	9381-4101-01 9381-4910-21 4131-6201-04	プラグ付電源コード POWER CORD プラグ付電源コード POWER CORD プラグ付電源コード POWER SUPPLY 直流安定化電源 POWER SUPPLY			1	213 011, 012,	. 311, 312			
06 06 11	9381-4101-01 9381-4910-21 4131-6201-04	プラグ付電源コード POWER CORD プラグ付電源コード POWER CORD プラグ付電源コード POWER SUPPLY 直流安定化電源 POWER SUPPLY			1	213 011, 012,	. 311, 312			
06 06 11	9381-4101-01 9381-4910-21 4131-6201-04	プラグ付電源コード POWER CORD プラグ付電源コード POWER CORD プラグ付電源コード POWER SUPPLY 直流安定化電源 POWER SUPPLY			1	213 011, 012,	. 311, 312			
06 06 11	9381-4101-01 9381-4910-21 4131-6201-04	プラグ付電源コード POWER CORD プラグ付電源コード POWER CORD プラグ付電源コード POWER SUPPLY 直流安定化電源 POWER SUPPLY			1	213 011, 012,	. 311, 312			

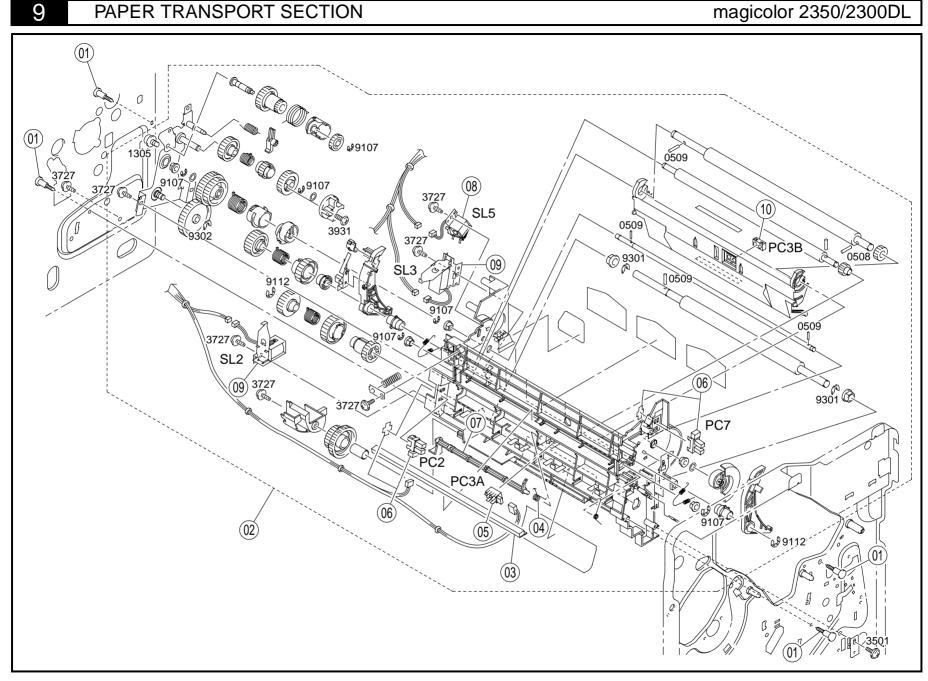


INDEX	PART NO.	PART NAME		REC	QTY	INDEX	PART NO.	PART NAME	REC	QTY
01	4131-3950-01	LABEL			1	22	4131-5534-03	LEVER		1
02	4131-0385-03	ラベル PAPER EXIT ASSSY 排紙			1	23	4131-5518-04	レバー ACTUATOR		1
04	4131-0902-01	PHOTO INTERRUPUTER EXIT	(PC10)		1			アクチュエータ		
05	4131-5542-03	フォトインタラプター 排出 LEVER			1					
06	4131-5502-01	レバー ROLLER PRESS			1					
07	4131-5501-02	ローラ 加圧 ROLLER FUSING			1					
08	4131-5522-01	ローラ 定着 BALL BEARING			2					
09	4131-5523-01	ボールベアリング BUSHING			2					
10	4131-5563-03	軸受 RING			4					
11	4131-5512-01	リング GEAR			1					
12	4131-5521-01	ギヤ BALL BEARING			2					
13	4131-6703-02	ボールベアリング THERMISTOR	(TH1)		1					
14	9334-1100-21	サーミスタ THERMAL SWITCH サーマルスイッチ	(TS1)		1					
17	4131-2024-01	PROTECTION			1					
18	4131-1021-01	保護材 SEAL シール			1					
19	4131-2031-02	PAWL			2					
20	4131-1004-04	π Cover			1					
21	4131-1023-01	カバー SEAL			1					
		シール								
INIDEA										
INDEX	PART NO.	PART NAME		REC	QTY	044 040		SFIX		
03	4131-0375-04	FUSING UNIT		RP	1	011, 012		SFIX		
03 03	4131-0375-04 4131-0376-04	FUSING UNIT 定着(100 V) FUSING UNIT		RP RP	1	311, 312		SFIX		
03 03 03	4131-0375-04 4131-0376-04 4131-0377-04	FUSING UNIT 定着(100V) FUSING UNIT 定着(120V)	(114)	RP	1 1 1	311, 312 211, 212,	213	SFIX		
03 03 03 15	4131-0375-04 4131-0376-04 4131-0377-04 4131-6502-01	FUSING UNIT 定着(100V) FUSING UNIT 定着(120V)	(H1)	RP RP	1 1 1	311, 312 211, 212, 311, 312	213	SFIX		
03 03 03 15	4131-0375-04 4131-0376-04 4131-0377-04 4131-6502-01 4131-6504-01	FUSING UNIT 定着(1 0 0 V) FUSING UNIT 定着(1 2 0 V) FUSING UNIT 定着(2 3 0 V) HALOGEN LAMP ハロゲンランプ 定着 HALOGEN LAMP FUSING	(H1)	RP RP	1 1 1 1	311, 312 211, 212, 311, 312 211, 212,	213	SFIX		
03 03 03 15 15	4131-0375-04 4131-0376-04 4131-0377-04 4131-6502-01 4131-6504-01 4131-6506-01	FUSING UNIT 定着(100 V) FUSING UNIT 定着(120 V) FUSING UNIT 定着(230 V) HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING	(H1) (H1)	RP RP	1 1 1 1 1	311, 312 211, 212, 311, 312 211, 212, 011, 012	213	SFIX		
03 03 03 15 15 15	4131-0375-04 4131-0376-04 4131-0377-04 4131-6502-01 4131-6504-01 4131-6506-01 4131-6503-02	FUSING UNIT 定着(100 V) FUSING UNIT 定着(120 V) FUSING UNIT 定着(230 V) HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING	(H1) (H1) (H2)	RP RP	1 1 1 1 1 1	311, 312 211, 212, 311, 312 211, 212, 011, 012 311, 312	213	SFIX		
03 03 03 15 15 15 16	4131-0375-04 4131-0376-04 4131-0377-04 4131-6502-01 4131-6504-01 4131-6506-01 4131-6503-02 4131-6505-02	FUSING UNIT 定着(1 0 0 V) FUSING UNIT 定着(1 2 0 V) FUSING UNIT 定着(2 3 0 V) HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP PRESS ハロゲンランプ 加圧	(H1) (H1) (H2)	RP RP	1 1 1 1 1 1 1	311, 312 211, 212, 311, 312 211, 212, 011, 012 311, 312 211, 212,	213 213 213	SFIX		
03 03 03 15 15 15	4131-0375-04 4131-0376-04 4131-0377-04 4131-6502-01 4131-6504-01 4131-6506-01 4131-6503-02	FUSING UNIT 定着(100 V) FUSING UNIT 定着(120 V) FUSING UNIT 定着(230 V) HALOGEN LAMP ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ カロゲンランプ カロゲンランプ 加圧	(H1) (H1) (H2)	RP RP	1 1 1 1 1 1 1	311, 312 211, 212, 311, 312 211, 212, 011, 012 311, 312	213 213 213	SHX		
03 03 03 15 15 15 16	4131-0375-04 4131-0376-04 4131-0377-04 4131-6502-01 4131-6504-01 4131-6506-01 4131-6503-02 4131-6505-02	FUSING UNIT 定着(100 V) FUSING UNIT 定着(120 V) FUSING UNIT 定着(230 V) HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 加圧 HALOGEN LAMP PRESS ハロゲンランプ 加圧 HALOGEN LAMP PRESS	(H1) (H1) (H2)	RP RP	1 1 1 1 1 1 1	311, 312 211, 212, 311, 312 211, 212, 011, 012 311, 312 211, 212,	213 213 213	SHX		
03 03 03 15 15 15 16	4131-0375-04 4131-0376-04 4131-0377-04 4131-6502-01 4131-6504-01 4131-6506-01 4131-6503-02 4131-6505-02	FUSING UNIT 定着(100 V) FUSING UNIT 定着(120 V) FUSING UNIT 定着(230 V) HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 加圧 HALOGEN LAMP PRESS ハロゲンランプ 加圧 HALOGEN LAMP PRESS	(H1) (H1) (H2)	RP RP	1 1 1 1 1 1 1	311, 312 211, 212, 311, 312 211, 212, 011, 012 311, 312 211, 212,	213 213 213	SHX		
03 03 03 15 15 15 16	4131-0375-04 4131-0376-04 4131-0377-04 4131-6502-01 4131-6504-01 4131-6506-01 4131-6503-02 4131-6505-02	FUSING UNIT 定着(100 V) FUSING UNIT 定着(120 V) FUSING UNIT 定着(230 V) HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 加圧 HALOGEN LAMP PRESS ハロゲンランプ 加圧 HALOGEN LAMP PRESS	(H1) (H1) (H2)	RP RP	1 1 1 1 1 1 1	311, 312 211, 212, 311, 312 211, 212, 011, 012 311, 312 211, 212,	213 213 213	SFIX		
03 03 03 15 15 15 16	4131-0375-04 4131-0376-04 4131-0377-04 4131-6502-01 4131-6504-01 4131-6506-01 4131-6503-02 4131-6505-02	FUSING UNIT 定着(100 V) FUSING UNIT 定着(120 V) FUSING UNIT 定着(230 V) HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 加圧 HALOGEN LAMP PRESS ハロゲンランプ 加圧 HALOGEN LAMP PRESS	(H1) (H1) (H2)	RP RP	1 1 1 1 1 1 1	311, 312 211, 212, 311, 312 211, 212, 011, 012 311, 312 211, 212,	213 213 213	SHX		
03 03 03 15 15 15 16	4131-0375-04 4131-0376-04 4131-0377-04 4131-6502-01 4131-6504-01 4131-6506-01 4131-6503-02 4131-6505-02	FUSING UNIT 定着(100 V) FUSING UNIT 定着(120 V) FUSING UNIT 定着(230 V) HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 加圧 HALOGEN LAMP PRESS ハロゲンランプ 加圧 HALOGEN LAMP PRESS	(H1) (H1) (H2)	RP RP	1 1 1 1 1 1 1	311, 312 211, 212, 311, 312 211, 212, 011, 012 311, 312 211, 212,	213 213 213	SHX		
03 03 03 15 15 15 16	4131-0375-04 4131-0376-04 4131-0377-04 4131-6502-01 4131-6504-01 4131-6506-01 4131-6503-02 4131-6505-02	FUSING UNIT 定着(100 V) FUSING UNIT 定着(120 V) FUSING UNIT 定着(230 V) HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 加圧 HALOGEN LAMP PRESS ハロゲンランプ 加圧 HALOGEN LAMP PRESS	(H1) (H1) (H2)	RP RP	1 1 1 1 1 1 1	311, 312 211, 212, 311, 312 211, 212, 011, 012 311, 312 211, 212,	213 213 213	SHX		
03 03 03 15 15 15 16	4131-0375-04 4131-0376-04 4131-0377-04 4131-6502-01 4131-6504-01 4131-6506-01 4131-6503-02 4131-6505-02	FUSING UNIT 定着(100 V) FUSING UNIT 定着(120 V) FUSING UNIT 定着(230 V) HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 加圧 HALOGEN LAMP PRESS ハロゲンランプ 加圧 HALOGEN LAMP PRESS	(H1) (H1) (H2)	RP RP	1 1 1 1 1 1 1	311, 312 211, 212, 311, 312 211, 212, 011, 012 311, 312 211, 212,	213 213 213	SFIX		
03 03 03 15 15 15 16	4131-0375-04 4131-0376-04 4131-0377-04 4131-6502-01 4131-6504-01 4131-6506-01 4131-6503-02 4131-6505-02	FUSING UNIT 定着(100 V) FUSING UNIT 定着(120 V) FUSING UNIT 定着(230 V) HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 加圧 HALOGEN LAMP PRESS ハロゲンランプ 加圧 HALOGEN LAMP PRESS	(H1) (H1) (H2)	RP RP	1 1 1 1 1 1 1	311, 312 211, 212, 311, 312 211, 212, 011, 012 311, 312 211, 212,	213 213 213	SFIX		
03 03 03 15 15 15 16	4131-0375-04 4131-0376-04 4131-0377-04 4131-6502-01 4131-6504-01 4131-6506-01 4131-6503-02 4131-6505-02	FUSING UNIT 定着(100 V) FUSING UNIT 定着(120 V) FUSING UNIT 定着(230 V) HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 定着 HALOGEN LAMP FUSING ハロゲンランプ 加圧 HALOGEN LAMP PRESS ハロゲンランプ 加圧 HALOGEN LAMP PRESS	(H1) (H1) (H2)	RP RP	1 1 1 1 1 1 1	311, 312 211, 212, 311, 312 211, 212, 011, 012 311, 312 211, 212,	213 213 213	SHX		

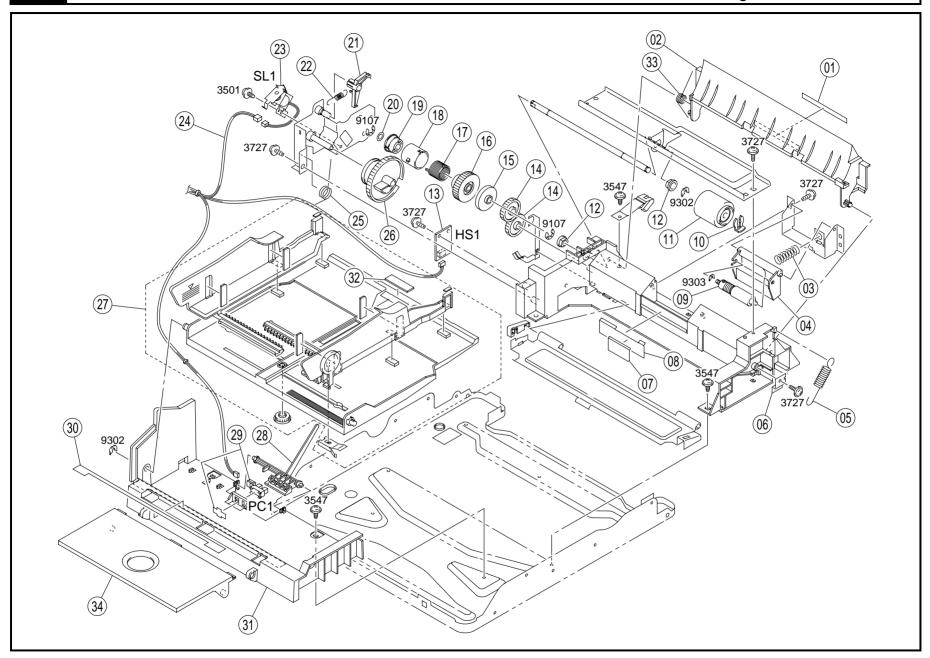
FRAMES magicolor 2350/2300DL



101 4131-0331-02 PRINT HEAD ASSY PO	INDEX	PART NO.	PART NAME	REC	QTY	INDEX	PART NO.	PART NAME	RI
102 4131-0339-01 HOLDER ASSY D C 接続 AS S S Y D C 技能 AS S S Y V N A A A S S Y V N A A A S S Y V V A A A S S Y V V A A A S S Y V V A A A S S Y V V A A A S S Y V V V A A A S S Y V V V A A A S S Y V V V V V V V V V V V V V V V V V	01	4131-0531-02	PRINT HEAD ASSY	RP	1				
1	02	4131-0339-01	HOLDER ASSY		1				
4131-2016-01 RUBBER FOOT 1	03	4131-6823-01	DC接点ASSY WIRE HARNESS ASSY		1				
HOLDER	04	4131-2016-01	I RUBBER FOOT		4				
Wire Harness Assy	05	4131-2315-03	HOLDER		1				
8	06	4131-6822-01	WIRE HARNESS ASSY		1				
1	07	4131-2320-01	SHOULDER SCREW		2				
10 4131-6807-03	08	4131-0326-01	FRONT COVER SW ASSY	RP	1				
10 4131-6807-03 WIRE HARNESS ASSY	09	4131-6809-02	削廉 SW ASSY WIRE HARNESS ASSY		1				
11 4131-2307-01 COVER カバー 3HOULDER SCREW 接なじ 2 投なじ PLUG HOUSING 角型プラグコネクタ WIRE HARRESS ASSY ハーネス AS S Y TRANSPORT SWITCH ASSY 搬送 S W PUSHBUTTON SWITCH PUSHBUTTON SWITCH PHICAL SET (S5) トナーボトルセット 17 9335-1910-61 SOLID STATE SWITCH DORE DETE. (PC6) 廃棄トナー検出 RP 1 RP	10	4131-6807-03	WIRE HARNESS ASSY		1				
12 0990-2064-01 SHOULDER SCREW 接ねじ PLUG HOUSING 角型プラグコネクタ	11	4131-2307-01	I COVER		1				
13 9383-2100-41 PLUG HOUSING 角型プラグコネクタ WIRE HARNESS ASSY ハーネス A S S Y TRANSPORT SWITCH ASSY 搬送 S W PUSHBUTTON SWITCH BOTTLE SET (S5) トナーボトルセット 17 9335-1910-61 SOLID STATE SWITCH SOLID STATE SWITCH 廃棄トナー検出 RP 1 廃棄トナー検出	12	0990-2064-01	I SHOULDER SCREW		2				
15 4131-0350-02	13	9383-2100-41	段ねじ PLUG HOUSING		1				
15 4131-0350-02 TRANSPORT SWITCH ASSY 搬送 S W	14	4131-6817-04	用型フラクコネクタ WIRE HARNESS ASSY		1				
16 4131-0901-01 PUSHBUTTON SWITCH BOTTLE SET (S5) RP 1	15	4131-0350-02	TRANSPORT SWITCH ASSY	RP	1				
17 9335-1910-61 SOLID STATE SWITCH TONER DETE. (PC6) RP 1 透過型フォトスイッチ 廃棄トナー検出	16	4131-0901-01	I PUSHBUTTON SWITCH BOTTLE SET (S) RP	1				
INDEX PART NO. PART NAME REC QTY SFIX	17	9335-1910-61	Fr) RP	1				
INDEX PART NO. PART NAME REC QTY SFIX									
	INDEX	PART NO.	PART NAME	REC	QTY			SFIX	

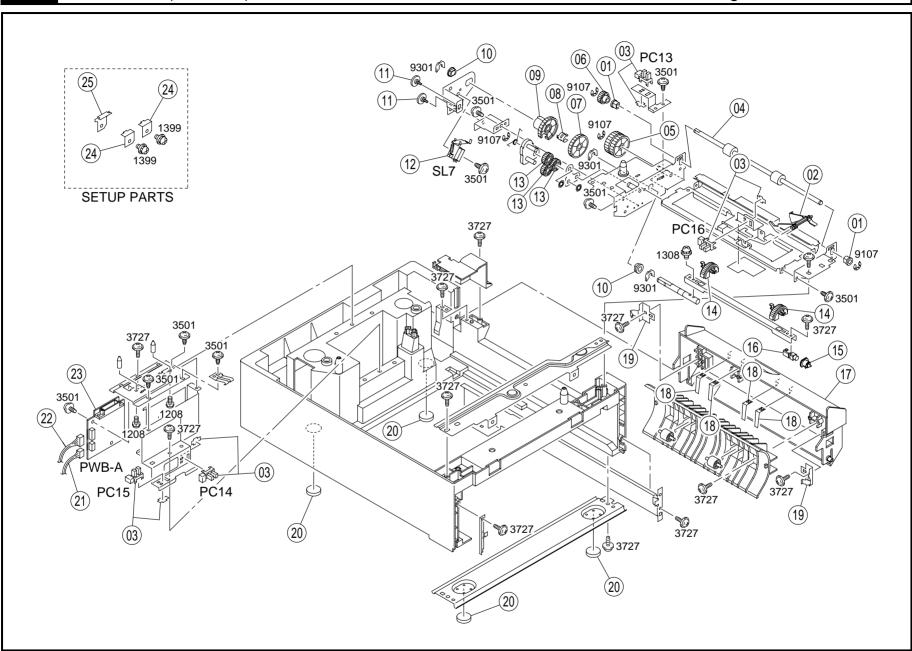


INDEX	PART NO.	PART NAME		REC	QTY	INDEX	PART NO.	PART NAME	REC	QTY
01	4131-3514-01	SHOULDER SCREW			4					
02	4131-0360-04	段ねじ TRANSPORT UNIT		RP	1					
03	4131-3509-02	搬送 CLEANING PAD			1					
04	4131-3512-01	クリーニングパッド TORSION SPRING			1					
05	9335-1100-31	ねじりコイルばね SOLID STATE SWITCH	OHP (PC3A) OHP検出		1					
06	4131-0902-01	IRANSPORT UNIT 搬送 CLEANING PAD クリーニングパッド TORSION SPRING ねじりコイルばね SOLID STATE SWITCH 透過型フォトスイッチ PHOTO INTERRUPUTER フォトインタラフター	O H P 検出 (PC2.7)		2					
07	4131-3511-03	フォトインタラプター ACTUATOR アクチュエータ			1					
08	9321-2100-41	アクチュエータ SOLENOID	IMAGE TRAN. (SL5)		1					
09	9321-2100-51	I SOLENOID	IMAGE TRAN. (SL5) 2 次転写圧接 (SL2.3)		2					
10	9335-1910-21	 フラッパーソレノイド	(PC3B)		1					
		SOLID STATE SWITCH 透過型フォトスイッチ	(1 002)							
INIDEX	DARTNO	DARTMAN	_	DE0	OT)			OF!Y		
INDEX	PART NO.	PART NAME	<u> </u>	REC	QTY			SFIX		



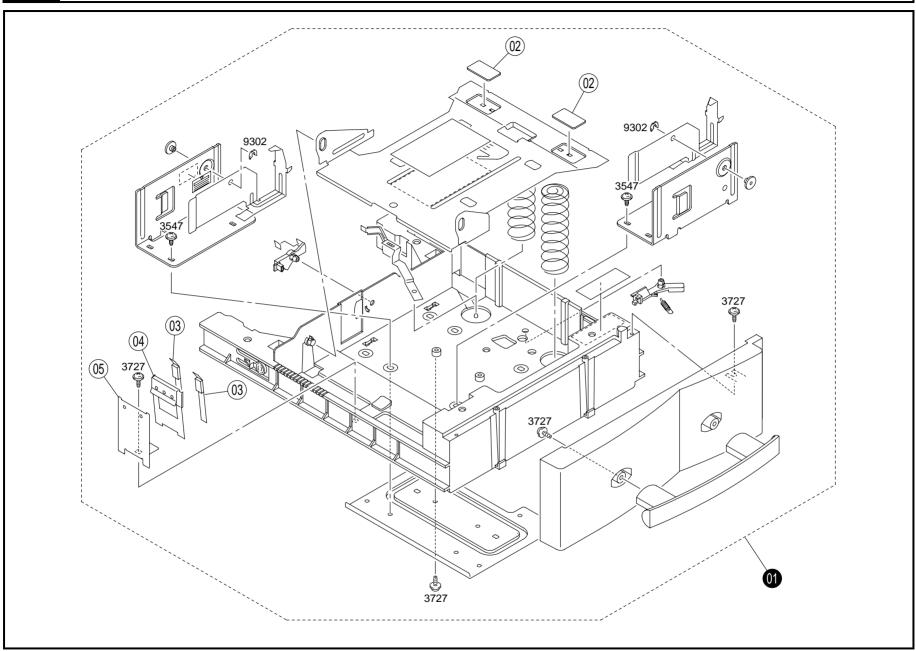
INDEX	PART NO.	PART NAM	ИЕ	REC	QTY	INDEX	PART NO.	PART NA	ME		REC	QTY
01	4131-7419-01	LABEL			1	19	4131-3007-02	DRUM			RP	1
02	4131-3010-03	ラベル GUIDE ガイド			1	20	1200-1342-05	ドラム <u>W</u> ASḤER				1
03	4131-3054-02	I PRESSURE SPRING			1	21	4131-3038-01	ワッシャー LEVER				1
04	4131-3053-02	圧縮コイルばね HOLDER			1	22	4131-3040-01	レバー TENSION SPRING				1
05	4131-3033-03	ホルダ TENSION SPRING			1	23	9321-2100-41	引張コイルばね SOLENOID	TAKE-UP	(SL1)	RP	1
06	4131-3043-01	引張コイルばね S_TOPPER			1	24	4131-6818-03	フラッパーソレノイド WIRE HARNESS ASSY	手差し給紙			1
07	4131-3057-02	ストッパ GUIDE ガイド			1	25	4131-3039-03	ハーネス ASSY TORSION SPRING ねじりコイルばね				1
08	4131-3056-01	GUIDE PLATE			1	26	4131-3035-02	GEAR				1
09	4658-0151-01	ガイド板 ROLLER ASSY	SEPARATOR	RP	1	27	4131-0430-03	ギヤ LIFTING PLATE ASSY				1
10	4142-3217-01	□─⋺ASSY STOPRING	サバキ		1	28	4131-3042-03	押上板 ASSY ACTUATOR				1
11	4131-3001-01	止め輪 ROLL <u>E</u> R	TAKE-UP	RP	1	29	4131-0902-01	アクチュエータ PHOTO INTERRUPUTER	P.EMP,TY	(PC1)	RP	1
12	4131-3003-01	ローラ BUSHING	給紙		2	30	4131-7421-02	フォトインタラプター LABEL	エンプティ			1
13	9372-5100-12	軸受 HUMIDITY CONVERTION EL.	TEMPERAT. (HS1) 湿温度		1	31	4131-3028-05	ラベル COVER カバー				1
14	4131-3080-01	湿度変換素子 GEAR	巡 温度		2	32	1164-3064-01	FRICTION SHEET				1
15	4131-3008-01	ギヤ ROLL			1	33	4131-3011-01	マサツバン TORSION SPRING				1
16	4131-3004-02	ころ GEAR		RP	1	34	4131-3021-04	TORSION SPRING ねじりコイルばね TRAY				1
17	4131-3006-01	ギヤ TORSION SPRING		RP	1			トレイ				
18	4131-3005-01	ねじりコイルばね RATCHET			1							
		1 = 4 = [
		ラチェット						2701				
INDEX	PART NO.	ラチェット PART NAM	ЛE	REC	QTY			SFIX				
INDEX	PART NO.		ЛЕ	REC	QTY			SFIX				
INDEX	PART NO.		ΛE	REC	QTY			SFIX				
INDEX	PART NO.		ИΕ	REC	QTY			SFIX				
INDEX	PART NO.		ИΕ	REC	QTY			SFIX				
INDEX	PART NO.		ΛΕ	REC	QTY			SFIX				
INDEX	PART NO.		ЛЕ	REC	QTY			SFIX				
INDEX	PART NO.		ИΕ	REC	QTY			SFIX				
INDEX	PART NO.		ИΕ	REC	QTY			SFIX				
INDEX	PART NO.		ИΕ	REC	QTY			SFIX				
INDEX	PART NO.		ИΕ	REC	QTY			SFIX				
INDEX	PART NO.		ИΕ	REC	QTY			SFIX				
INDEX	PART NO.		ΛE	REC	QTY			SFIX				
INDEX	PART NO.		ΛE	REC	QTY			SFIX				
INDEX	PART NO.		ИΕ	REC	QTY			SFIX				
INDEX	PART NO.		ИΕ	REC	QTY			SFIX				
INDEX	PART NO.		ИΕ	REC	QTY			SFIX				
INDEX	PART NO.		ΛΕ	REC	QTY			SFIX				

11 FRAMES (OPTION) 2ND CASSETTE magicolor 2350/2300DL

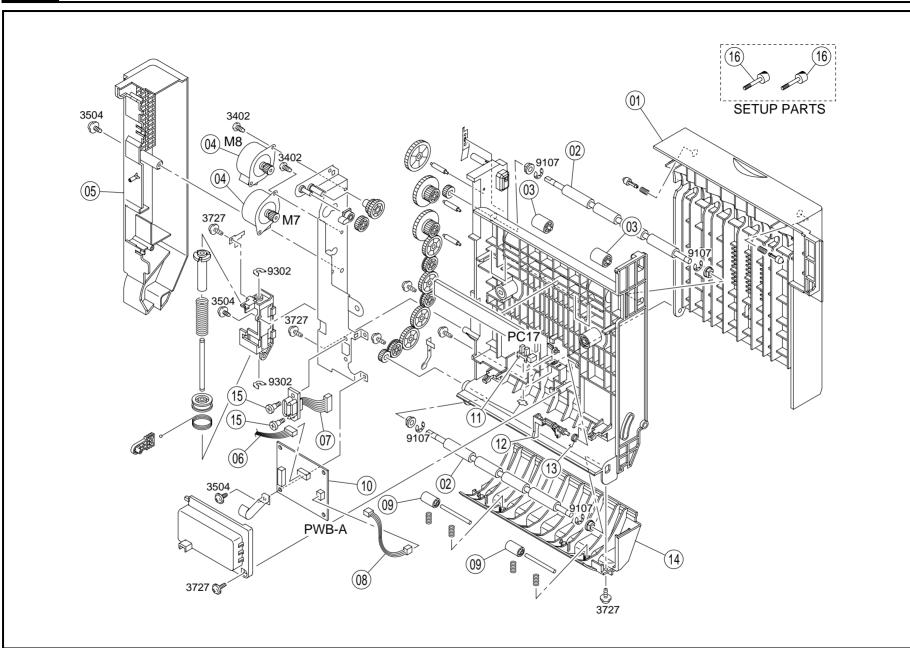


06 4574-3208-01 GEAR 1 24 4574-3401-03 SUPPORTER FROM	EX PAF	ART NO.		PART NAME		REC	QTY	INDEX	PART NO.		PART NAME		R
A574-3221-03 A57UATOR	4120-40	1039-02					2	19	4574-3118-04				
13	4574-32	3221-03	型 ACTUATOR				1	20	4131-2016-01	RUBBER FOOT			
05	4131-09	902-01	PHOTO INTERRUPUTER	₹	(PC13-16)	RP	4	21	4574-6801-02	I WIRE HARNESS ASSY			
4574-3205-01 GEAR	4574-32	3207-01	ROLLER				1	22	4574-6802-02	MIRE HARNESS ASSY			
4574-3208-01 GEAR	4574-32	3205-01	GEAR				1	23	4574-0101-01	PWB ASSY	CONTROL (PW 制御	B-A)	F
8 4574-3228-01 PLATE SPRING 板ばね QEAR まかけ QEAR	4574-32	3208-01	GEAR				1	24	4574-3401-03	SUPPORTER	FRONT		
09 4574-3224-04	4574-32	3223-02	GEAR				1	25	4574-3402-02	LSUPPORTER	REAR		
10 4131-3532-02 BUSHING BUSH	4574-32	3228-01	PLATE SPRING				1			回疋具	俊		
10 4131-3532-02 BUSHING 神受 2 2 2 2 2 2 2 1 1 0990-3214-01	4574-32	3224-04	仮はね GEAR				1						
11 0990-3214-01 SHOULDER SCREW タッンネシット SOLENOID TAKE-UP (SL7) RP 1 フラッパーソレノイド 給紙 GEAR キャ	4131-35	3532-02	BUSHING				2						
13 4574-3218-01	0990-32	3214-01	軸受 SHOULDER SCREW				2						
13 4574-3218-01 GEAR	9321-21	2100-41	SOLENOID	ŢĄĶE-UP	(SL7)	RP	1						
14 4142-0212-02 ROLLER ASSY TAKE-UP RP 2 ローラ A S S Y 給紙 1 軸受 1 は サラ A S S Y と お は で は で は で は で は で は で は で は で は で は	4574-32	3218-01	l GEAR	术后科比			3						
15 4574-3225-02 BUSHING 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4142-02	212-02	ROLLER ASSY	ŢĄĶE-UP		RP	2						
16 4574-3217-01 JOINT 1 1 ジョイント COVER カバー PLATE SPRING 板ばね 4574-3216-01 Wide A 574-3216-01 Moisson 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4574-32	3225-02	BUSHING	統維			1						
17 4574-3107-03 COVER カパー 18 4574-3216-01 PLATE SPRING 4 板ばね 4	4574-32	3217-01	JOINT				1						
18 4574-3216-01 PLATE SPRING 4 4 板ばね	4574-31	3107-03	COVER				1						
INDEX PART NO. PART NAME REC QTY SFIX	4574-32	3216-01	PLATE SPRING				4						
	X PAF	ART NO.		PART NAME		REC	QTY			SFI	<u> </u>		_

12 PAPER TRAY UNIT (OPTION) 2ND CASSETTE magicolor 2350/2300DL



INDEX	PART NO.		PART NAME	REC	QTY	INDEX	PART NO.	PART NAME	REC	QTY
02	4120-3116-01	SEPARATOR PAD		RP	2					
03	4574-3315-02	さばき材 MEMBER			2					
04	4574-3316-03	押え材 PLATE SPRING			1					
05	4574-3306-02	SEPARATOR PAD さばき材 MEMBER 押え材 PLATE SPRING 板ばね REGULATING PLATE 規制板			1					
		規制板								
INDEX	PART NO.		PART NAME	REC	QTY			SFIX		
INDEX 01	PART NO. 4574-0311-03		PART NAME METRIC	REC		011, 012	, 211, 212, 213	SFIX		
		CASSETTE ASSY カセット A s s y CASSETTE ASSY		REC	1	011, 012 311, 312		SFIX		
01	4574-0311-03	CASSETTE ASSY カセット A s s y CASSETTE ASSY カセット A s s y	METRIC	REC	1			SFIX		
01	4574-0311-03	CASSETTE ASSY カセット A s s y CASSETTE ASSY	METRIC	REC	1			SFIX		
01	4574-0311-03	CASSETTE ASSY カセット A s s y CASSETTE ASSY	METRIC	REC	1			SFIX		
01	4574-0311-03	CASSETTE ASSY カセット A s s y CASSETTE ASSY	METRIC	REC	1			SFIX		
01	4574-0311-03	CASSETTE ASSY カセット A s s y CASSETTE ASSY	METRIC	REC	1			SFIX		
01	4574-0311-03	CASSETTE ASSY カセット A s s y CASSETTE ASSY	METRIC	REC	1			SFIX		
01	4574-0311-03	CASSETTE ASSY カセット A s s y CASSETTE ASSY	METRIC	REC	1			SFIX		
01	4574-0311-03	CASSETTE ASSY カセット A s s y CASSETTE ASSY	METRIC	REC	1			SFIX		
01	4574-0311-03	CASSETTE ASSY カセット A s s y CASSETTE ASSY	METRIC	REC	1			SFIX		
01	4574-0311-03	CASSETTE ASSY カセット A s s y CASSETTE ASSY	METRIC	REC	1			SFIX		
01	4574-0311-03	CASSETTE ASSY カセット A s s y CASSETTE ASSY	METRIC	REC	1			SFIX		
01	4574-0311-03	CASSETTE ASSY カセット A s s y CASSETTE ASSY	METRIC	REC	1			SFIX		
01	4574-0311-03	CASSETTE ASSY カセット A s s y CASSETTE ASSY	METRIC	REC	1			SFIX		
01	4574-0311-03	CASSETTE ASSY カセット A s s y CASSETTE ASSY	METRIC	REC	1			SFIX		
01	4574-0311-03	CASSETTE ASSY カセット A s s y CASSETTE ASSY	METRIC	REC	1			SFIX		
01	4574-0311-03	CASSETTE ASSY カセット A s s y CASSETTE ASSY	METRIC	REC	1			SFIX		



INDEX	PART NO.	PART NAME	F	REC	QTY	INDEX	PART NO.	PART NAME	RE
01	4575-3702-04	ÇOVER			1				
02	4575-3722-01	カバー ROLL <u>E</u> R			2				
03	4143-3720-01	ローラ ROLL			2				
04	9314-1200-11	ROLL C 3 MOTOR	(M7.8)	RP	2				
05	4575-3712-02	パルスモータ REAR COVER			1				
06	4575-6803-02	後カバー WIRE HARNESS ASSY			1				
07	4143-6801-01	ハーネス A S S Y WIRE HARNESS ASSY			1				
08	4575-6802-01	WIRE HARNESS ASSY ハーネス A S S Y WIRE HARNESS ASSY			1				
09	4575-3728-01	ハーネス ASSY ROLL			2				
10	4575-0101-02	ROLL ころ PWB ASSY CONTROL (基板 A S S Y 制御 PHOTO INTERRUPUTER TRANSPORT フォトインタラブター 搬送 ACTUATOR アクチュエータ	(PWB-A)	RP	1				
11	4131-0902-01	基板 A S S Y 制御 PHOTO INTERRUPUTER TRANSPORT フォトインタラプター 搬送	(PC17)	RP	1				
12	4575-3706-01	フォトインタラフター 搬送 ACTUATOR _			1				
13	4143-3707-02	I TORSION SPRING			1				
14	4575-3709-03	ねじりコイルばね GUIDE PLATE			1				
15	0990-2064-01	GUIDÉ PLATE ガイド板 SHOULDER SCREW			2				
16	4575-3708-01	段ねじ SHOULDER SCREW 段ねじ			2				
INDEX	PART NO.	PART NAME	F	REC	QTY			SFIX	
	1	1							

WIRING ACCESSORIES AND JIGS magicolor 2350/2300DL 01) 08) 02,03 05,06

INDEX	PART NO.	PART NAME	REC	QTY	INDEX	PART NO.	PART NAME	REC	QTY
01	9384-1100-91	WIRING SADDLE		31					
02	9384-1921-11	ワイヤーサドル WIRING SADDLE 9.2H		5					
03	9384-1921-21	ワイヤーサト゛ル WIRING SADDLE 15.2H		3					
04	9384-2010-21	ワイヤーサト゛ル EDGE COVER 8.5H		7					
05	9384-2910-21	エッシ゛カハ゛ー EDGE COVER		1					
06	9384-2910-31	WIRING SADDLE ワイヤーサドル WIRING SADDLE 9.2H ワイヤーサト ル WIRING SADDLE 15.2H ワイヤーサト ル EDGE COVER 8.5H エッシ カハー EDGE COVER エッジカバー EDGE COVER エッジカバー		3					
07	9384-1310-81	エッジカバー WIRING SADDLE 6.4H		1					
08	9384-1311-11	EDGE COVER エッジカバー WIRING SADDLE 6.4H ワイヤーサドル CABLE TIE 104L ケッソクハ゛ント゛		1					
		ケップクハ゛ジト゛							
INDEX	PART NO.	PART NAME	REC	QTY			SFIX		

SCREWS AND WASHERS

magicolor 2350/2300DL

INDEX	PART NO.	PART NAME	ILLUST	INDEX	PART NO.	PART NAME	ILLUST	INDEX	PART NO.	PART NAME	ILLUST
0502 0508 0509	9752-3012-50 9752-2010-50 9752-2012-50	PIN		8301	9712-0300-13	WASHER	₩				
1136	9642-0306-01	SCREW		9107 9109 9112	9721-0400-01 9721-0500-01 9721-0600-01	RETAINING RING	6				
1208	9644-0306-13	SCREW		9301 9302 9303	1066-1151-01 4425-3001-01 4425-3002-01	RETAINING RING	B				
1301 1305 1308 1318 1399	9646-0210-13 9646-0306-13 9646-0308-13 9646-0408-13 9646-0408-14	SCREW		5505	1120 0002 01						
2706	9654-0408-14	SCREW									
3402	9733-0306-13	TAPPING SCREW									
3501 3503 3504 3524 3541 3544 3546 3547 3548	9735-0306-13 9735-0308-07 9735-0308-13 9735-0316-13 9735-0308-14 9735-0306-14 4106-2063-01 4154-3804-01 9735-0330-13	TAPPING SCREW									
3726 3727 3734	9739-0408-14 9739-0308-14 1250-2301-01	TAPPING SCREW	φ ₁₀								
3930 3931 3932	9742-0318-13 9742-0310-14 9749-1740-07	SCREW									

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16 NUMERICAL INDEX magicolor 2350/2300DL

PART NO.	FIG.	INDEX	QTY	PART NO.	FIG.	INDEX	QTY	PART NO.	FIG.	INDEX	QTY	PART NO.	FIG.	INDEX	QTY	
4575-3728-01 4575-6802-01 4575-6803-02 4658-0151-01 9313-1100-31 9313-1100-51 9314-2100-11 9314-2100-22 9321-2100-41 9321-2100-41 9321-2100-61 9322-1200-11 9326-1810-51 9326-100-21 9335-1100-21 9335-1100-21 9335-1910-61 9372-5100-12 9381-4100-91 9381-4101-01 9384-1310-81 9384-1311-11 9384-1310-81 9384-1310-81 9384-1310-81 9384-1900-57 9384-1900-58 9384-1900-58 9384-1901-21 9384-2910-21 9384-2910-31	13 13 13 10 05 01 02 13 05 04 09 09 09 08 06 06 06 06 06 06 06 14 14 14 14 14	09 08 06 09 20 15 05 04 18 36 23 12 09 10 13 15 14 12 05 06 06 06 06 13 01 07 07 08 14 07 07 07 08 07 07 07 07 07 07 07 07 07 07 07 07 07	211111111111111111111111111111111111111													