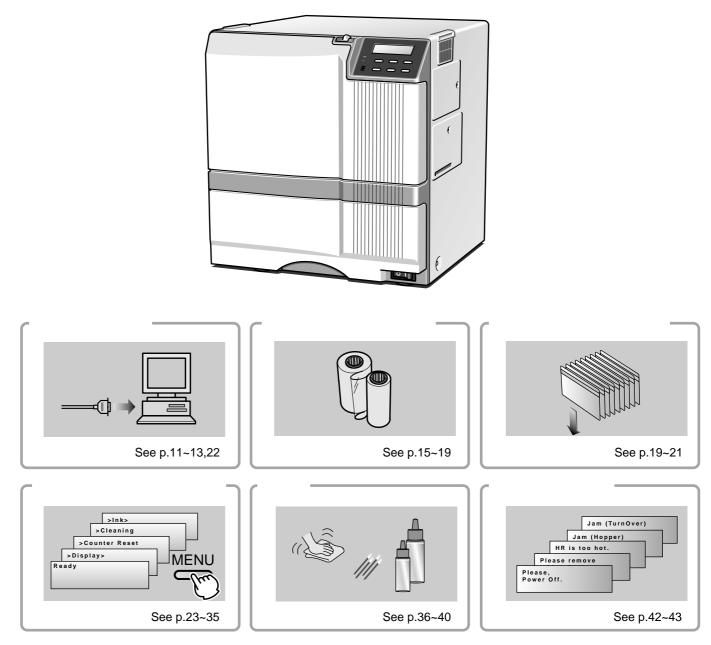
Instruction Manual



- Thank for purchasing this product.
- Please read this manual carefully before use to ensure correct operation. It is particularly important to read the Safety Precautions for safe operation. After reading, retain this manual carefully for future reference.
- The product number is important for quality control. Upon purchase, check the back of the unit to make sure that the product number is correctly displayed.
 Notes about this manual
- (1) This manual may not be reprinted in any way without permission.
- (2) The contents of this manual, as well as the specifications and design of this product, may change without notice.
- (3) The illustrations used in this manual may differ slightly from the actual product.

Declaration of Conformity

Model Number: XIDi Printeryyyyy(y=A-Z,0-9 or blank)

Product name: Card Printer

We herewith declare that the above mentioned product complies with the following council directives and harmonized standards.

Council Directives:	1999/5/EC	relating to radio equipment and telecommunications terminal
		equipment.
	89/336/EEC	c relating to electromagnetic compatibility.
	73/23/EEC	relating to electrical equipment designed for use within
		certain voltage limits.
Harmonized Standards:	EN55022:19	998+A1:2000 +A2:2003 Class B
	EN55024:19	998+A1:2001+A2:2003
	EN61000-34	-2:2000
	EN61000-3-	-3:1995+A1:2001
	EN60950-1	:2001
	EN50371:20	002
	EN300 330-	-2:V1.1.1

EN301 489-03:V1.4.1

Manufacturer:

Victor Data Systems Co., Ltd. 2969-2, Ishikawa-cho, Hachioji-shi, Tokyo, 192-8620, Japan

Importer and distributer:

Digital Identification Solutions GmbH Teckstraße 52, D73734 Esslingen, Germany

Year to begin affixing CE Marking: 2005

Hachioji-shi, Dec., 2005

Place, Date

Toru Shimiyu

Toru Shimizu General Manager-Quality Control Victor Data Systems Co., Ltd.

Information for USA

- NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.

Caution: Changes or modifications not approved by party responsible for compliance could void user's authority to operate the equipment.

Information for Canada

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Information for EU

Machine noise

Sound power level: less than 70dB(A) according to DIN45635 part 19 (EN27779). The measurements are to be made according to DIN45635 part 2019 or EN27779, respectively.

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Notes for safe operation

Before you use

Read these notes on safety thoroughly before operating your printer in order to use the unit properly. Once you start using the unit, this manual should be put aside the unit, or at a convenient place where you can look up the manual any time as you need.



If you ignore the warning with this mark, and handle the unit in a wrong way, death or serious injuries may occur.



If you ignore the caution with this mark, and handle the unit in a wrong way, injuries or damages to properties may occur.

🗥 WARNING

- If the abnormal phenomena as listed below are seen, immediately stop operating the unit. Continuing operation may cause a fire or electric shock.
- Smoke or odd smell comes out from the machine.
- Water or metal went into the machine.
- The unit fell to the floor, or the cabinet was broken.
- The power cable is damaged (exposed lead, broken cable, etc.)

If you see these phenomena, turn off the power, pull out the power plug, and contact your dealer as soon as possible. Do not try to repair it by yourself. It is dangerous.

- Do not remove the screws, or disassemble or alter the machine.
- High-voltage components are contained in the unit. Touching these areas may result in an electric shock.
- Ask your dealer if you want your printer inspected or repaired.
- Do not remove the external covers of the machine. You may get an electric shock.
- Do not work on the power cable, or give excessive force on it. Do not put heavy objects such as furniture on the cable.
- The cable may be damaged, causing a fire or electric shock.
- When you find a defect on the power cable, such as exposed lead, stop using the unit, and consult your dealer.
- Do not use the machine with the power plug inserted incompletely.
- The machine generates heat due to incomplete contact, causing a fire or electric shock.
- Do not put many cords on a single plug socket. The power cords also heats up.
- Do not use the machine with dusts piled on the power plug. Do not put a metallic material adjacent to the power plug.
- Dusts and metal are conductive, causing a fire or electric shock.
- Pull out the power plug from the outlet every six months, and clean the dusts piled on the legs and body of the plug.

- Do not use a line voltage other than instructed.
- Using a line voltage or power supply which is not specified may cause a fire or electric shock.
- Do not put foreign materials from the openings of the machine (e.g., vents, card slots, cassette inlet, etc.)
- Metals, flammable things, and other foreign materials may cause a fire or electric shock if entering into the machine.
- If these things went into the machine, immediately turn off the power, pull out the power plug, and ask your dealer to repair. Do not try to repair it by yourself. It is dangerous.
- Do not put a container with liquid in it, or small metal ornaments and the like on the machine.
- The liquid or metal entering into the machine acts as a conductor, causing a fire or electric shock.
- If liquid or metal went into the machine, immediately turn off the power, pull out the power plug, and ask your dealer to repair. Do not try to repair it by yourself. It is dangerous.
- Do not place the machine on a rickety table or slanting places.
- The machine may fall out of the table or fall over, which may damage the machine or injure you.
- If the machine is damaged by falling or turnover, immediately turn off the power, pull out the power plug, and ask your dealer to repair. Do not try to repair it by yourself. It is dangerous.

Do not wet the machine with water.

- Using the machine at a place where water splashes on the machine, or wetting the machine with water (applying, throwing, or spilling water over the machine) may cause a fire or electric shock.
- If water entered into the machine, immediately turn off the power, pull out the power plug, and ask your dealer to repair. Do not try to repair it by yourself. It is dangerous.

Do not touch the machine with wet hands.

- Touching the machine with wet hands may cause an electric shock.
- Do not touch the power plug during electrical storms.Lightning may cause an electric shock.

Notes for safe operation (continued)

- Ground the machine with the attached electric cord when connecting it to the utility outlet.
- Using a cord other than the one supplied for grounding may cause an electric shock when the machine fails.
- Do not put your head or yourself into the packaging bag.
- Do not play with the packaging bag. You may suffocate yourself.
- Give close attention to small children who may want to play with the packaging bag.

- Do not use the machine while it has a fault.
- Do not use the machine while it has a fault, as this may cause a fire or electric shock.
- Immediately turn off the power, pull out the power plug, and ask your dealer to repair. Do not try to repair it by yourself. It is dangerous.

A CAUTION

Pull out the power plug before cleaning the machine.

- This is for preventing electric shocks.
- Pull out the power plug when you won't use the machine for a prolonged period of time to assure safety.
- Remove the power plug from the outlet for safety when you won't use the machine for a long time.
- Do not move the machine with the power cable and other electric cables connected.
- The cables may be damaged while being moved, which may cause a fire or electric shock.
- You may stumble over the cable and get injured.

Do not move the machine with objects placed on it.They may fall on you and hurt you.

Do not put heavy objects on the machine.They may fall on you and hurt you.

Do not block the vents.

- Heat generated inside the machine cannot escape, which may cause a fire.
- Be sure to work with two persons when you unpack, move or lift the machine.
- If you work alone, you may be injured by the fallen machine or hurt your back by lifting a heavy machine by yourself.

Inspection

• Ask you dealer or a qualified person to inspect the machine, typically once every two to three years. Operating the machine with dusts piling on the components for a prolonged period of time may cause a fire or a malfunction of the machine. It will be particularly effective to inspect the machine before wet rainy season. Consult your dealer on the costs of inspection.

Do not put the machine at a place where it will be wet with steam (e.g., from a humidifier), or at a excessively humid or dusty place.

• The oil, water and dusts act as conductors, which may cause a fire or electric shock.

- Do not put the machine at a place where it becomes excessively hot.
- The surface and internal components may deteriorate. Also there is a danger of a fire. Special care should be taken for exposure to direct sunlight or a heater adjacent to the machine.

Hold the body of the power plug when pulling it out.

• Do not pull out the plug by holding the cable. The cable may be broken or damaged which may in turn cause a fire or electric shock.

Do not touch the power plug with a wet handYou may get an electric shock.

- Do not lay the power cable near the heating equipment.
- The covering of the cable will melt due to heat from such equipment, which may cause a fire or electric shock.
- The heat rollers and adjacent areas become hot during operation.
- Be careful not to touch the heat rollers and adjacent areas when replacing the ink ribbon or retransfer film, or remove jammed cards.
- Wait until the heat rollers get cooled down to prevent burns.
- Be careful of jamming your hand or fingers in the card tray, card bracket on the hopper, or printer door.
- Replace the ink ribbon or retransfer film, or remove jammed cards with care not to jam your hand or fingers in the mechanism, which may cause an injury.
- Do not use a power cable other than the specified cable for connection.
- If you use an unspecified power cable for connection or extension, heat may accumulate in the cable, causing a fire.

Before use

Product features

- This card printer allows printing of high-quality, fullcolor images equivalent to photographic quality onto standard size (ISO 7810 compliance) plastic cards using sublimation type transfer printing.
- Use of sublimation type retransfer printing enables printing of cards other than those made of PVC and non-contact IC cards, etc. with uneven surfaces that were previously difficult to print directly.

Some card materials may not be suitable for printing. Consult your dealer regarding the materials to be used and specifications required before purchase.

- Printing with no margins on all sides is possible.
- The host interface utilizes USB mode.
- This printer can automatically discern what type of ink ribbon is installed by meanss of RF-ID tag built inside.

Checking accessories

Please check for any missing accessories when opening the box.

- Power cord AC 120V type(For North America) · · · · · 1unit AC 200V type(For Europe) · · · · · 1unit
- Instruction manual : English · · · · · · 1 unit
- * The detached power cords and the Instruction manual vary according to model and country of purchase.
- Cleaning card : 1 unit
- Card stacker : 1 unit
- Ink ribon cassette : 1 unit
- Retransfer film : 1 unit cassette
- USB Cable : 1 unit
- Jog lever (inside the card tray)
- Groves : 1 unit

Handling of transfer film, ink ribbons and cards

Handling

Take note of the following points when handling print media (retransfer film and ink ribbons) and cards.

- Use of bent or damaged cards may result in card feed error.
- Do not touch the print media or the printed surface of cards directly with the hands as this may cause blurring of the print.
- Foreign materials on the printing area may result in misprints. Always load the print media and cards in a clean environment.
- Static build-up in the print media or cards can cause errors. To avoid causing static electricity, do not rub cards together.
- When replacing or replenishing print media or cards that have been stored at low temperatures, let the print media or cards sit for at least one hour at the same temperature as location where the printer is to be used before use. Using print media or cards as they are may cause condensation and result in malfunction or print errors.

Storage

The storage condition of the print media (retransfer film and ink ribbons) and cards may have a strong influence on the print quality. Select a storage location that fits the following criteria:

Storage environment

Storage temperature	: 5°C to 25°C
	41°F to 77°F
Storage environment relative humidity	: 40% to 60%

Storage location

To avoid deterioration of the ink ribbon and retransfer film, do not store in the following locations:

- · Locations exposed to direct sunlight
- · Locations with high temperature and high humidity
- Locations near organic solvents or diazo copiers.

Storage period

Print media should be used within a half year of purchase. For cards, please consult the dealer from which they are purchased.

Before use (continued)

Storing and handling cards after printing

Avoid storing the cards in locations exposed to direct sunlight or with high temperature and high humidity. Furthermore, avoid contact with the following chemicals and stationery, as they can cause discoloration or fading of the cards:

- Organic solvents such as alcohol, film cleaner, diazo copies, etc.
- Soft vinyl chlorides, document cases, pass holders, erasers, etc.
- Hair-dressing products and cosmetics, etc.

Purchasing print media and cards

Contact your dealer regarding the purchase of print media (retransfer film and ink ribbons) and cards. Always use the products specified below.

Print media

Use only the ink ribbons and retransfer film specified for this unit. For the names of these products refer to "Main Specifications" on p. 47 of this manual.

Ne can accept no liability for any problems arising as a result of the use of media using materials other than those specified.

Card material

ISO/IEC 7810 type ID1 (dimensions) :

equivalent product

ISO/IEC 7811-2 (Magnetic stripe) :

ISO/IEC 7816 (IC card) :

equivalent product equivalent product

The materials of some cards may not be suitable for printing. Consult your dealer regarding the materials to be used and specifications required before purchase.

Escape Clause

We do not provide compensation for any malfunction during card printing caused by breakdown of the machine, ink ribbon defects or card characteristics. In addition, we also do not provide compensation for insufficient print quality, which are not agreed in advance. Please evaluate carefully beforehand.

Card Material

Some card material may not be suitable for printing. Using a contact-type IC card other than those specified by the dealer, may cause damage to the thermal head. No compensation is made for the life reduction and failures that were caused by unsuitable card material. Warp of card or uneven thickness of IC cards, even though they are within the tolerance of JIS or ISO standards, may not be suitable for printing or feeding. For details on the specifications about card material or others, consult the dealer in advance

• Version upgrade

The following defects may occur as a result of the ver sion upgrade for the firmware of the printer or for the printer driver.

- Card printing is disabled for the appliation software that has been used.
- The operation of the printer or application software becomes unstable.
- Defects in print result occurs.
- Print color or shade differs.
- The performance of reproducing fine letters, changes.
- Others

Be sure to retain a copy of the current version when performing version upgrade. Reinstall the previous ver sion immediately if these problems occur. We are not liable for any damage such as defective cards or inter ruptions during printing as a result of the version up grade.

Installation

The performance of the card printer is strongly influenced by the installation location.Be careful of the following items as for installation location.

 Install in the locations is not so much as to cause print defect due to dust adherence.
 Dusty environment increases print defect. It is recommended that the card printer is used in the locations with the cleanness Class 8 or better of

ISO14661-1. But at least avoid the following locations. (1) Carpeted room

(2) Crowded locations

(3) Locations where paper(corrugated etc.) is handled(4) Areas near copy machines

When the card printer is not used, it is recommended that the power is turned off and the printer is covered by plastic sheet etc.(not textile).

• Install in the locations where the printer performance is kept.

Aviod the locations below where the performance or life of the printer is affected.

- (1) Locations where there is vibrations or shock
- (2) Locations exposed to direct sunshine.
- (3) Wet locations without ventilation
- (4) Unstable locations and sloped surface
- (5) Areas near air conditioners, humidifiers, stoves, etc. that may cause condensation within the printer .
- Install in the environment that gives full play to the printer ability.

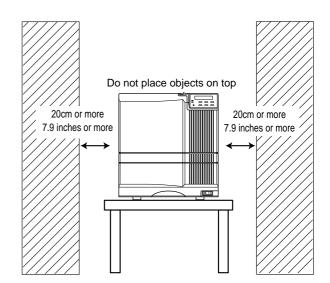
The printer is to be installed in an environment with the following temperature and humidity.

:	15°C to 30°C
	59°F to 86°F
:	35% to 70%
	:

CAUTION Use of the printer in an environment with temperatures lower than the above range may cause retransfer errors and use of the printer in an environment with temperatures higher than the above range may cause print errors from deformation of the cards and wrinkling of the film.

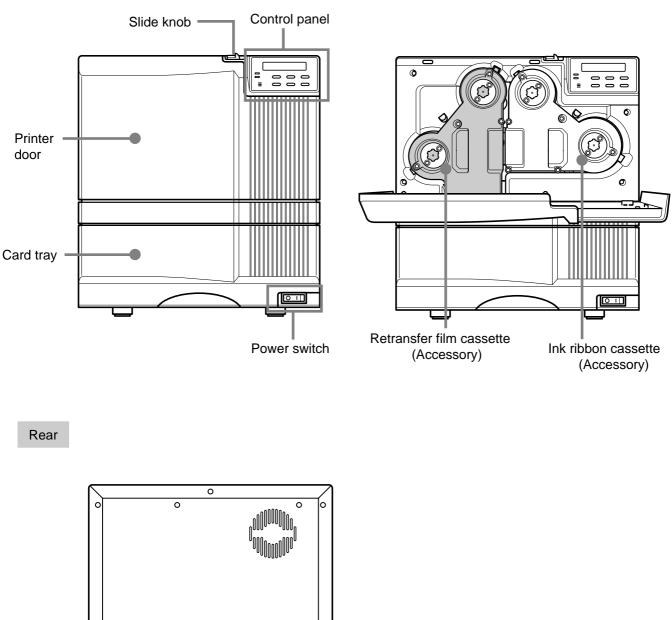
Installation diagram

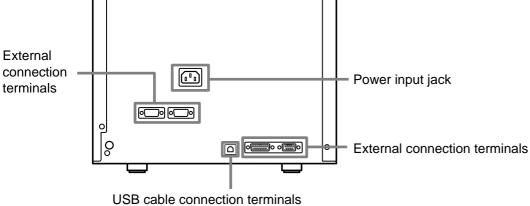
Ventilation holes are provided for the cooling fan on the bottom and sides of the unit. Avoid inserting any object into the gap between the bottom of the unit and the top of the stand. Install the unit with its sides at least 20cm away from the surrounding wall as illustrated in the diagram, and keep the back of the unit at least 10cm away from the wall. Also, do not place any object on top of the unit.



Names of parts

When the printer door is open





Set-up

Connecting the IC unit (sold separately)

Large and compact size IC units are sold separately, as are specialized optional devices for the printer. Consult your dealer for more details.



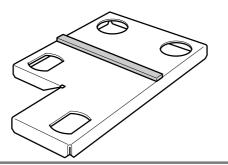


• Make sure that the power switch is turned OFF and the AC cable is detatched from the plug, before connecting and disconnecting the IC units. Otherwise electric shocks, fires or malfunction of the product may occur.

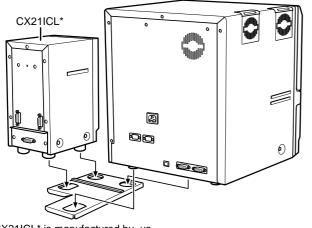
· Using IC units other than those specified may cause electric shocks, fires or malfunction of the product.

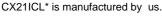
Large size IC unit (sold separately)

1. A joint plate for an IC unit is provided as an accessorv.



 $\mathbf{2}$. Fit the printer and IC unit into the holes as shown.



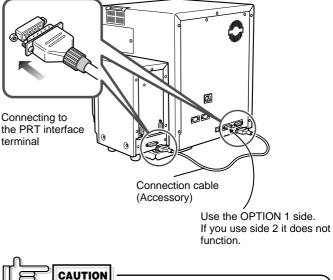




Unstable locations and angled surfaces may cause card feeder malfunctions. Make sure to fit the devices into the holes securely. Furthermore, install the printer on a flat and hard surface.

3. Connect the printer and IC unit.

Connect the cable which comes with the IC unit to the **OPTION 1 terminal.**

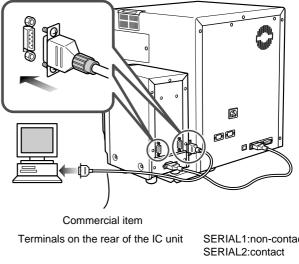


Turn the power off before connecting the cable between the printer and IC Unit. Otherwise some malfunction may be caused.

4. Connect the IC unit with the host computer.

Connect interface cables which are commercially available.

The terminal is rotated 180°





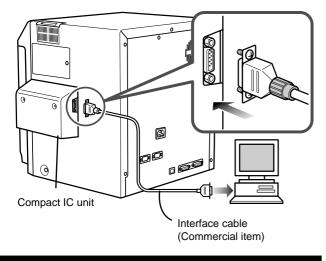
SERIAL1:non-contact

Make sure to tighten the screws of the interface cables.

Compact IC unit (sold separately)

Please ask your dealer for the Compact IC unit connection.

Connect the compact IC unit to the host computer with the interface cables which are commercially available.



Connecting the Laminator

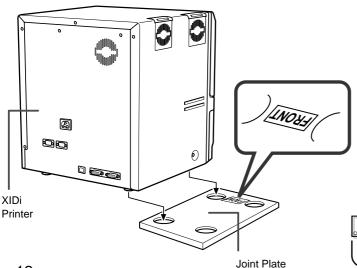
The laminator is sold separately, as a specialized optional device for the printer. Consult your dealer for more details.

WARNING

Electric

shock

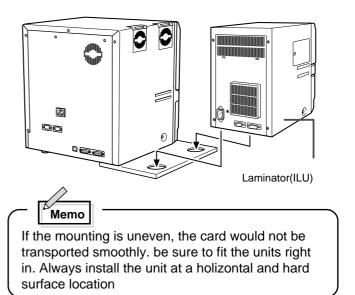
- Make sure that the power switch is turned OFF and the AC cable is detatched from the plug, before connecting and disconnecting the laminator. Otherwise electric shocks, fires or malfunction of the product may occur.
 - Using laminator other than those specified may cause electric shocks, fires or malfunction of the product.
- 1. Set up the unit joint plate which comes with the laminator (optional). Mount the printeron to joint plate.



	6
CAUTION	-

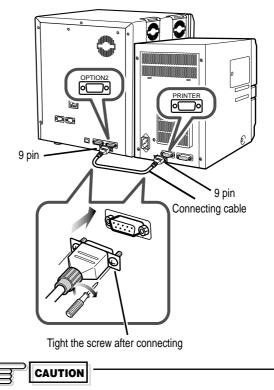
Be careful not to pinch your finger when installing.

2. install the laminator



3. Install the unit connecting cable.(optional)

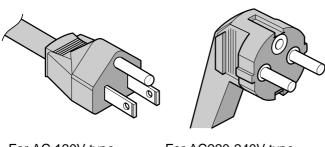
As shown in the diagram, connect the cable to the OPTION 2 external connection terminal of the printer and the PRINTER external connection terminal of the laminator.



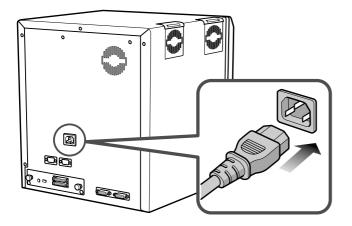
Make sure to tighten the screws of the interface cables.

Connecting the power cord

1. Check the plug.



- For AC 120V type (North America)
- For AC220-240V type (Europe)
- * The detached power cords vary according to model and country of purchase.
- 2. Plug the power cable into the printer.



Plug the power cable of the laminator if it is installed.



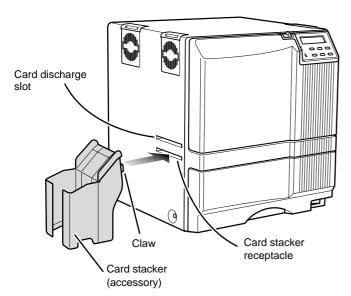
CAUTION -

Always use a grounded power outlet. Never share the outlet with other electrical equipment.

Use an AVR (Automatic Voltage Regulator) if there is a possibility of voltage fluctuation. Use an uninterruptible power source rather than an AVR if there is the possibility of uninterruptible power source.

Installing the card stacker

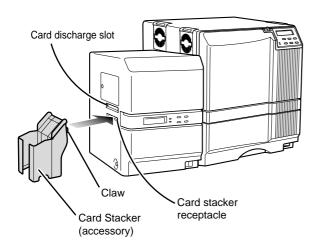
Hang the stacker claw on the stacker receptacle.



The card stacker is capable of containing approximately 100 0.76mm(0.03inches)-thick cards or 300 0.25mm (0.01inches)-thick cards at the maximum.

Be sure to hang the card stacker claw on the card stacker receptacle, not the card discharge slot. If you mount the card stacker at a wrong place, cards are not discharged, resulting in a card jam.

When connecting the laminator, pull the tab of the card stacker at the stacker mount of the laminator card.

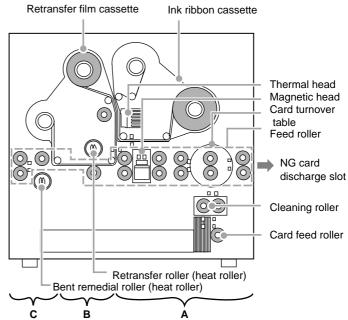


Discharging the card

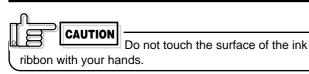
When correctly printed, the cards are discharged from the left side.

If a card jam or a write error on magnetic stripes occurs on the way, results differ depending on the areas.

- Portion A: If a card jam, a write error on magnetic stripes or an IC unit encord error occurs on the way, press the RESET button, then the ENTER button. The printer is initialized, and the cards are discharged from the right side of the printer.
- Portion B: See the description in Jam (Transfer) on p.46.
- Portion C: When correctly printed, the cards are discharged from the left side of the printer. The cards jamming around this area are also discharged from the left side.

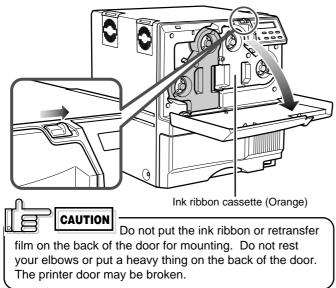


Setting the ink ribbon



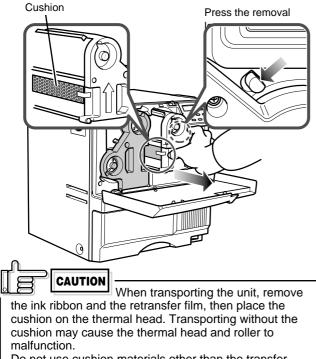
1. Activate the slide knob and open the printer door.

When the slide knob is moved, the printer door opens downwards. Hold the door with your hand and open it slowly.



2. Remove the ink ribbon cassette.

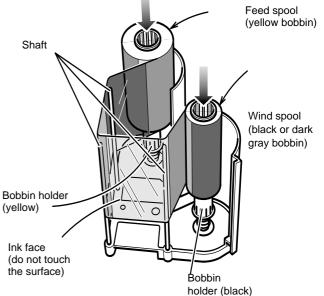
When the lever is pressed, a small portion of the cassette pops out.



Do not use cushion materials other than the transfer cushion that comes with the unit, as this may cause damage to the head.

3. Insert the ink ribbon into the cassette.

Stretch the ink ribbon along three shafts with the ink face of the ribbon facing outside and insert the bobbins firmly into the bobbin hc' ders.

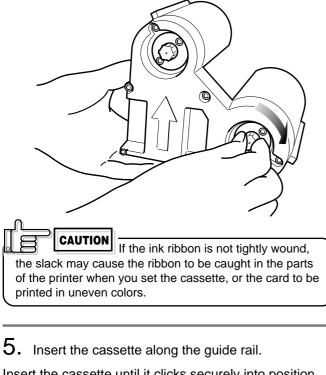


Place the cassette upright on a flat surface during set-up.

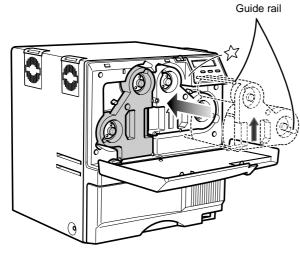
When you need to take out the cassette, for instance, to clean the printer, be sure to put the cassette upright as shown in the above illustration. When the ink ribbon is put on the table with its face down, dusts attach to the surface, causing a malfunction of the printer.

4. Wind the ribbon, taking up the slack.

Turn the knob in the arrow direction to wind a small portion of the ink ribbon. If the ink ribbon does not wind up, go back to step 3, and insert the ink ribbon firmly into the bobbin holders.



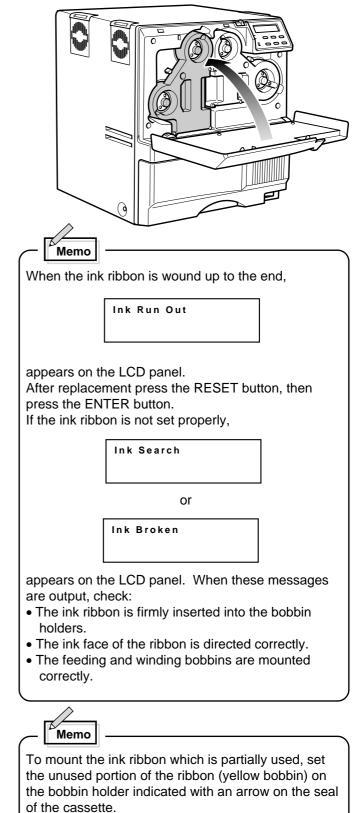
Insert the cassette until it clicks securely into position. The lever returns to its original position.



• The cassette containing the ink ribbon is heavy. Hold the cassette with both hands when you set or take out the cassette.

• If the cassette unit is not inserted until it clicks securely into position before printing, horizontal lines may be printed with the image. $6. \ \ {\rm Close \ the \ printer \ door.}$

If you want to mount the retransfer film, keep the door open and go to the next page.



Printing with the ink ribbon set improperly may cause the image to be faint.

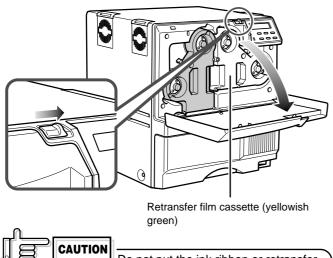
Setting the retransfer film



CAUTION Do not touch the retransfer film surface with your hands.

1. Activate the slide knob and open the printer door.

When the slide knob is moved, the door opens downwards. Hold the door with your hand and open it slowly.

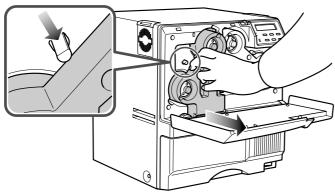


Do not put the ink ribbon or retransfer film on the back of the door for mounting. Do not rest your elbows or put any heavy object on the back of the door as it may break.

2. Remove the retransfer film cassette.

When you press the lever, a small portion of the cassette pops out.

Press the cassette removal lever.

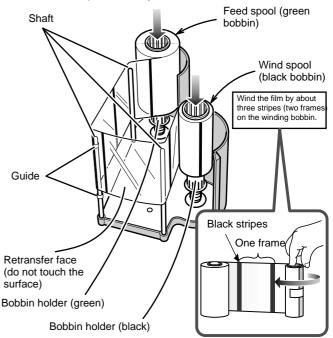


3. Insert the retransfer film into the cassette.

Stretch the retransfer film along three shafts with the retransfer face of the film facing outside and insert the bobbins into the bobbin holders firmly.

At this time, perform setting so that the film is inside the guide. Wind the film to the wind spool more than three stripes (two frames).

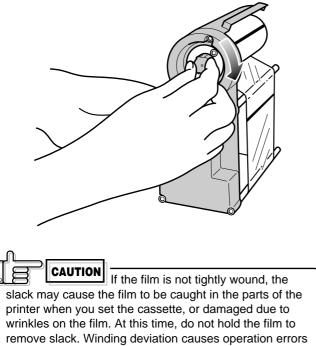
Otherwise the printer may fail.



Place the cassette upright on a flat surface during set-up.

When you need to take out the cassette, for instance, to clean the printer, be sure to put it upright as shown in the above illustration. When the film is put on the table with its retransfer face down, dusts attach to the surface, causing a failure of the printer. 4. Wind the retransfer film to take up the slack.

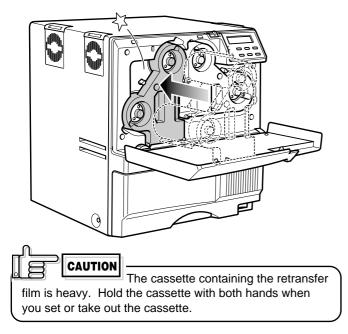
Turn the knob in the arrow direction to wind a small portion of the retransfer film. If the film does not wind up, go back to step 3, and insert the bobbins firmly into the bobbin holders.



5. Open the printer door and insert the cassette.

or defective prints.

Insert the cassette until it clicks securely into position. The lever returns to its original position.



6. Setting the number of frames to be used.

The number of frames of the retransfer film being used is set.

For details, refer to the "Media Type" setting on page 32.

This work must be done when the used film (number of frames) is changed.



When the setting of number of frames is not correct, the printed picture may be entirely shifted on the card.

7. Close the printer door.



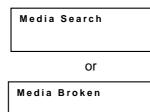
When the retransfer film is wound up to the end,

Media Run Out

appears on the LCD panel.

After replacement press the RESET button, then press the ENTER button.

If the retransfer film is not set properly,



appears on the LCD panel. When these messages are output, check:

- The retransfer film is firmly inserted into the bobbin holders.
- The retransfer face of the film is directed correctly.
- The feeding and winding bobbins are mounted correctly.



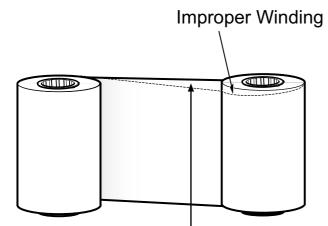
To mount the retransfer film which is partially used, set the unused portion of the film on the bobbin holder indicated with an arrow on the seal of the cassette.

Printing with the transfer film set improperly may cause the image to be faint.

Caution when loading the retransfer film cassette and/or the ink ribbon cassette

The following caution shall be kept when the retransfer film cassette and/or the ink ribbon cassette is removed because of card jam or other trouble.

Please pay enough attention so that the retransfer film and/or ink ribbon is maintained at the right position. Particulary, the ink ribbon is extremely thin, therefore it apt to slip down when the cassette is removed as shown in the illustration.



Adjust the position with hands so that the media position of take-up side and supply side becomes parallel

When loaded in this condition, it may cause improper printing such as INK RUNOUT error, improper color printing etc.

To avoid this, please handle the ink ribbon and/or the retransfer film very carefully with hands so that the media position of take-up side become parallel.

Please do not touch the print side of the ink ribbon and/ or the retransfer film with your hands. Otherwise, it may cause improper printing.

When adjusting the print position of the retransfer film and/or ink ribbon, please follow the instruction label attached on the cassettes.

Setting cards

Please use cards specified by your dealer. This unit can take both 0.76 mm(0.03inches)-thick and 0.25 mm (0.01inches)-thick cards. The factory setting is for 0.76 mm-thickness.



Fingerprints, soiling, etc. on card surface can result in print errors. Wear lint-free gloves when handling.

Inserting cards

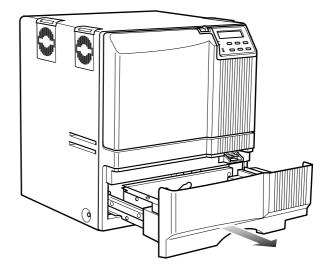
The unit can take about 300 0.76mm-thick cards. As for 0.25mm thick cards do not insert more than 300 pcs.

/This 300 pcs. is not a guaranteed quantity. In the event of card feed failure, caused by card bending or others reduce card quantity.

When removing new cards from the box, it is possible that cards may be stuck due to static electricity. In this case, peel the cards off one at a time before setting into position. Hold the edges of the card when carrying out these operations.

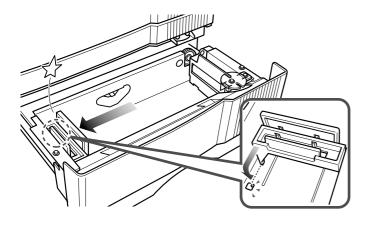
1. Open the card tray.

Hold the lower part of the card tray and pull the tray toward you slowly until it no longer moves.



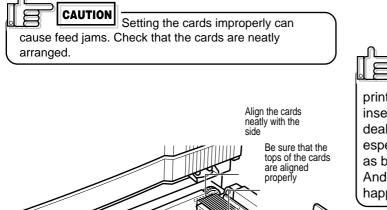
2. Pull the card bracket back.

The card bracket locks when it reaches the hole.



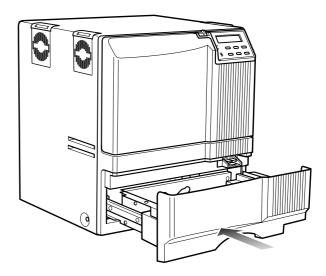
3. Insert the cards and move the bracket back intoposition.

Limit the number of cards as the card bracket moves back slightly from the lock position.



4. Close the card tray.

Push the card tray back into the printer until it no longer moves.





To print pre-printed cards on this printer, determine print layout, color tone and card inserting direction by in advance consulting your dealear.

especially for card pre-printed in a dark color such as black, card positioning error may happen. And for a magnetic or IC card, encoding error may happen.



When handling cards, avoid dusty environment and use the attached gloves.

Dusty cards such as those fingermarked may cause improper printing.

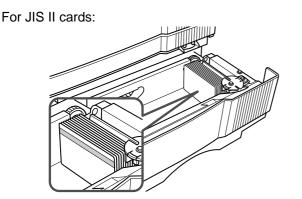
Consult your dealer to purchase new gloves.



When moving the card bracket back into position, do this slowly to avoid jamming your fingers. Leaving the card bracket out of position may cause card jams.

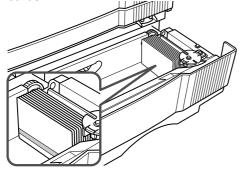
When using magnetic cards

When using cards with magnetic strips, set the cards in the following manner.



Place the card with its magnetic stripes upward and facing the card bracket.

For ISO cards:



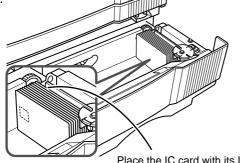
Place the card with its magnetic stripes downward and facing the card bracket.



Printing on cards with magnetic strips

When using contact IC cards

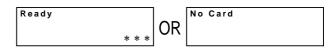
When using contact IC cards, set in the following manner.

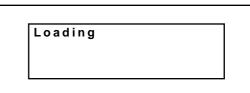


Place the IC card with its IC terminal inward and facing the card bracket.

Loading cards

Load cards when the printer's LCD panel shows the message "Ready" or "No Card", and not when printer operations have stopped due to an error. Cards can also be loaded when the power supply is not switched on. If there is a drop in the volume of remaining cards (under about 25 cards with a thickness of 0.76mm), the electronic beep sounds before every feeding. (See p.33 in this manual.)





When "Loading" is displayed on the LCD panel, do not open the card tray under any circumstances. The unit is currently feeding cards. If a message other than the one above is displayed, cards can be loaded even while the unit is printing. However, you are recommended to load cards when the unit is not printing.

To prevent defective printing caused by suspended printing or vibration as a result of opening and closing the card tray, load cards with care.

Switching the card thickness

Depending on the material, some 0.25mm(0.01inches) thick cards may not be suitable for printing. Consult your dealer regarding the materials and specifications of the card before purchasing.

MARNING .



 As for switching the card thickness, consult your dealer or the service personnel. Otherwise injuries or malfunction of the printer may be caused



Injury

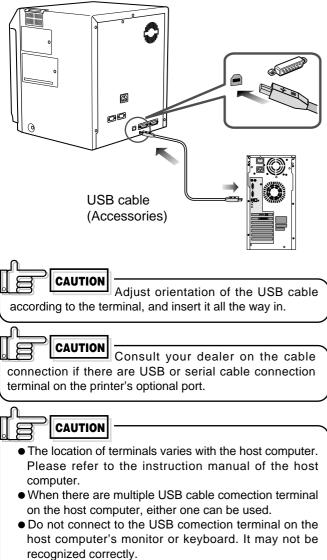
Connecting with a host computer

CAUTION
 Do not switch off the power of the host computer during printing.
 Do not use the sleep or the stand-by function on the host computer.
 If the power of the host computer is switched off during printing, or if the sleep or the stand-by function of the host computer is

activated, the printer may stop with cards printed halfway remain in the printer. When this occurs, initialize the priner as "Slopping when printing" of page 44 on this manual.

- 1. Check to ensure that the power of both the printer and host computer are switched off.
- 2. Connect the printer and host computer with the USB cable.

Insert the USB cable to the USB cable connection terminal at the back of the printer.



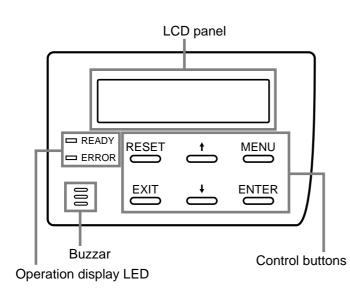
• When using a USB hub, connect to the hub that is directly linked to the host computer.

Connecting Multiple Printers

When connecting a host computer to multiple printers, set different Unit Numbers from 1 to 7 for each printer. Refer to see the page 35 of the instruction manual

Beforeuse

Names of parts on the operation panel



Operation display LED

READY LED (green)

- ON : unit ready, printer in operation
- Flashing : receiving image data
- OFF : unit stopped due to error, or unit being set, initialized or preheated.

ERROR LED (red)

ON : operation error

OFF: normal status

If an error occurs while the buzzer is set to ON, an alarm will sound. If this happens, the LCD background color will change to red.

LCD panel

During normal operation

- Upper line : operation status display (For details concerning the operation display, see p. 24 of this manual.)
- Lower line : counter display (Toggles between total counter/head counter/ free counter and roller counter.)

If an error occurs

Displays the error status. (For details concerning the error display, see p. 42 - 43 of this manual.)

During user mode

Displays various setting modes. (For details concerning settings, see p. 27 in this manual.)

Display background color

Bright green : OS booting up Orange : Card feeding

Change	. Ouru recum
Red	: Error

The above background colors can be selected in user mode settings.

(For details concerning settings, see p. 29 in this manual.)



R	ES	E	Г
C			

Initializes the printer by the software when an error occurs or an error is cancelled.

MENU

The user mode setting is displayed when the unit is in the Ready or Preheating status. The button is also used when canceling the operation lock during errors.

Confirms the mode selected in

The parameter setting for each

mode can be adjusted during the

Make sure to press the button to

the user mode setting.

user mode setting.

save the settings.



+ t

EXIT

Quits setting and returns to the upper level setting screen.

Before use (continued)

Operation display LED contents and the LCD panel

Printer status	READY	ERROR	LCD panel
Mechanism set period			Initializing
Preheat period			Preheating
Ready period	洸		Ready
Printer operation period	洪		When an error occurs
Error occur		嶽	*Depends on the error content
User mode		■°`;́;;;;;;	Depends on the user mode content
			: LED on
			: LED off

For details, see p. 42 – 43 of this manual.

Initialization period

When the power is turned on, the printer performs positioning of the ink ribbon and retransfer film. It also initializes the mechanisms of the printer and check their operations. "Initializing" is dispalyes on the LCD panel during this period.

Preheating period

When the initialization of the mechanisms completes normally, the printer increases the temperatures of the retransfer roller and bend remedial roller up to the specified levels. "Preheating" is dispalyes on the LCD panel during this period.

OS booting up Boot Up.. Ver. xxx/xx/xx 🗸 version number. Initializing.. initialization * * * XXXXX process. Preheating.. preheating * * * XXXXX Ready select setting Ready status * * * XXXXX Loading.. feeding XXXXX * * * Printing.. printing хххх * * * Encoding.. encoding * * * XXXXX Retransfer.. retransfer * * * XXXXX Unloading..

LCD operation display content

* * * XXXXX

Cleaning..

Sleeping..

* Firmware version Shows firmware

Displayed during the

Displayed during

Displays Total/Head/Free or Roller(Display is Roll.), according to the counter

* Print counter

Displayed during

Displayed during

Displayed during

Displayed during

Displayed when cards are discharged from the NG card outlet

Displayed during cleaning operations

When the heater status is OFF because of the power save function

Operation

Turning on the power

1. Before turning on the power, check the following: Make sure that the printer door is completely closed.

Make sure that the card tray is completely closed. Make sure that the host computer is correctly connected.

Make sure that any peripheral equipment is correctly connected.

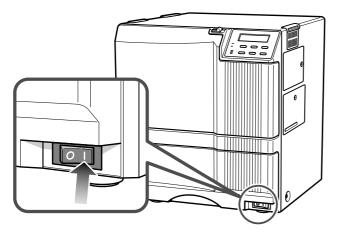
Make sure that the power supply outlet is correctly connected.

(Power on the laminator first, if connected.)

Only switch the unit on after checking the above points.

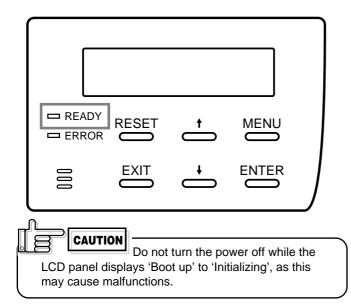
2. Turn the power ON.

(I represents ON and O represents OFF.)

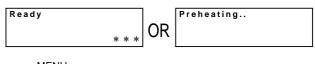


3. The unit will be in the ready status approximately 4 minutes after turning on the power.

The operation display LED (READY LED) will light up.



Making settings in the user modes When the LCD panel displays Ready or Preheating,

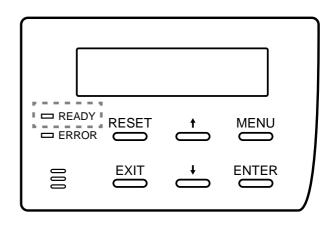


press from button.

For details concerning each user mode setting, see p. 27 of this manual.

4. Enter the control command from the host computer to print cards.

The operation display LED (READY LED) will flash while the unit is receiving image data from the host computer.



Be sure NOT to do any of the following during printing operations and initialization process :

- Do not open the printer door.
- Do not open the card tray.
- (while the LCD panel displays 'Loading')
- Do not turn off the power supply.
- Do not unplug the unit.
- Do not pull out the connection cable.

Failure to observe the above points will cause printing to be aborted and may result in a malfunction of the unit.

When the printer was occured an error during printing operation caused by abovementioned operation or others, the retransfer film was rewinded about 3 panels. If the printer is turned off and on the power or is initialized, the printer occur the printing an error which is "INK RUNOUT" or print results problem because of the printer try to print the used retransfer film. Wind up the retransfer film about 3 panels by unused panel. See p.19 "Caution when loading the retransfer film cassette and/or the ink ribbon cassette" and p.26 "On initialization when the retransfer film casstte and/or the ink ribbon cassette is loaded".

Turning off the power

1. Check the printer status.

In ready, preheat or error status, check that printer operations are suspended.

2. Turn off the power.

Always wait 10 seconds or more before turning the power back on again.

About the RESET button

When an error occurs in the printer, press the

button, then the ENTER button.

The printer is initialized with this operation.

If the error still persists, see p.42-43 and take the appropriate actions.

Then, press the **ESET** button, and the **ENTER** button again. The printer is initialized, and returns to the "Ready" state.

(When you turn off the power, these procedures are not necessary.)

On Initialization when the retransfer film cassette and/or the ink ribbon cassette is loaded

Dust or foreign particles may attach on the surface of retransfer film and ink ribbon when their cassette are removed from the printer.

This may cause defective printing such as image void, defective retransfer etc.

To Avoid this, it is recommended that the retransfer film and the ink ribbon are wound up one or two panels after they are reloaded.

Please follow the initialization procedure described below:

- 1. Turn the power switch on, and wait until the LCD panel displays "Preheat" or "Ready".
- 2. Depress the ESET key. LCD panel displays:



3. By depressing the tkey or the tkey, the LCD panel change accordingly as shown below. Select the wind-up condition, one or two panels. (This set up is not memorized.)

Initialize 2'nd Panel, OK?

• Initialized after two panels of the retransfer film and the ink ribbon are would up.

Initialize NEXT Panel, OK?

• Initialized after one panels of the retransfer film and the ink ribbon are would up.



- Initialized without winding up. (Default)
- 4. By depressing the ENTER key, the printer is initialized according to the selected above set up condition.

User modes

The settings for printing media, card, etc. can be made in the User mode.

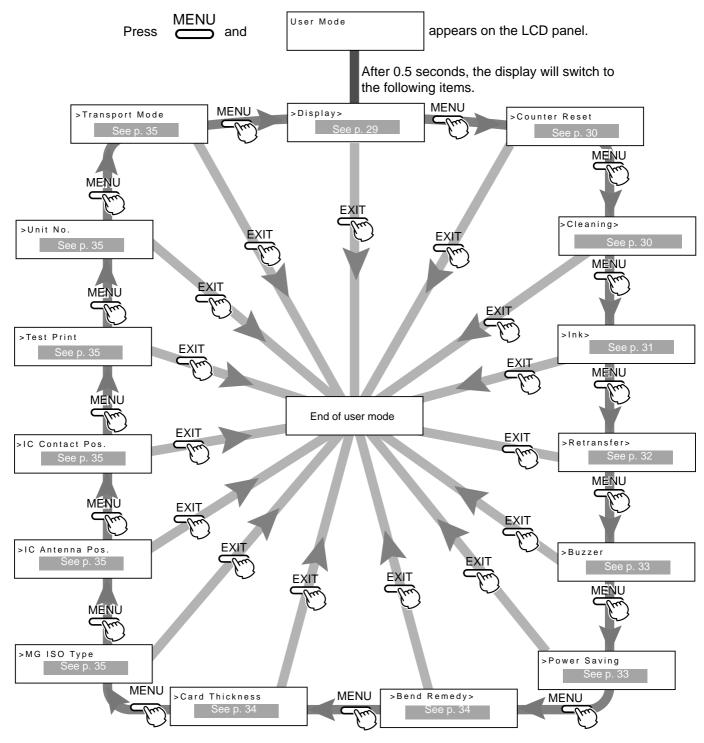


Press the MENU button when the unit is in the Ready, Preheat or Error status to suspend printing operations. When you change settings for the underlined submenu on the next page, (Setting the retransfer film, Setting the retransfer roller temperature and Bend remedy roller temperature setting),the message "Please Reset" will appear on the LCD panel. Then initialize the printer by pressing

key.

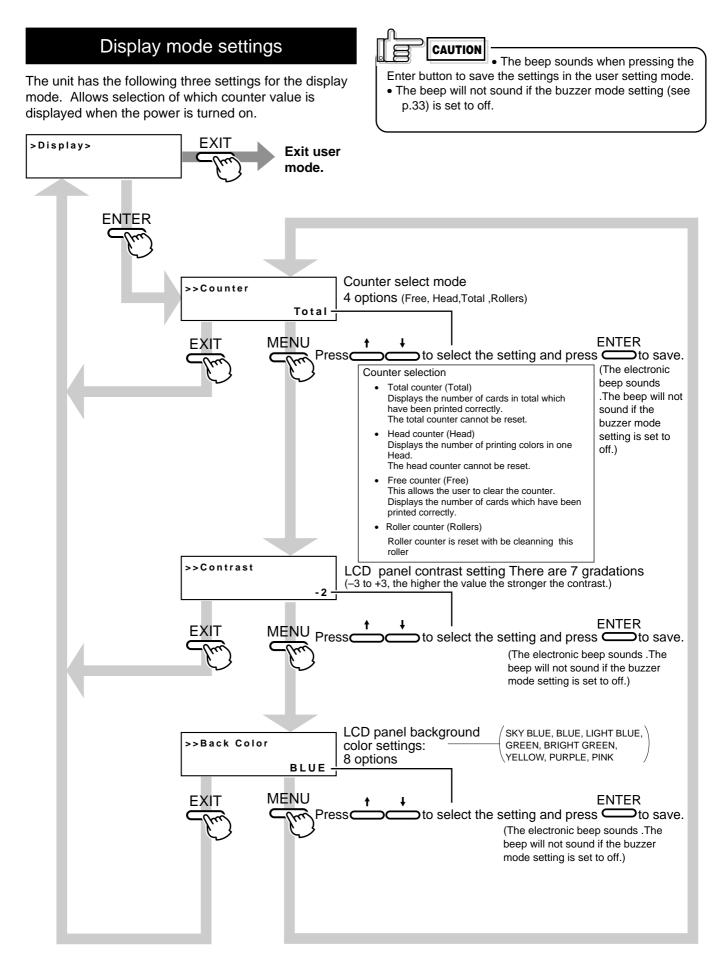
RESET key and next ENTER

User mode screen flow



User mode settings

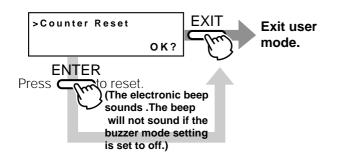
Main menu	Submenu	Factory setting
>Display>	Sounter 4 counter type settings: [Total, Head, Free, Rollers]	Total
Display mode	LCD panel contrast setting: 7 gradations from –3 to +3, the higher the value the stronger the contrast.	0
See p. 29	>>Back Color LCD pamel background color setting: 8 options	SKY BLUE
>Counter Reset OK?	Counter reset mode For free counter resetting: press the ENTER button.	
>Cleaning>	Cleaning mode For cleaning mode setting: Magnetic head and card feeder roller execution	
>Ink>	Display on ink ribbon : the ink type being used is displayed y _{MCK:0} Display only because of automatic setting by RF-ID(Setting is not possible)	
Ink mode	Setting the black value K: 9 gradations can be set from -3 to +5, the larger the value the darker the printing.	0
	Setting the K printing mode: 2 options [standard and fine]	Standard
See p.31	>>SP-Ink1 Level >>SP-Ink2 Level 9 gradations can be set from -3 to +5, the larger the value the darker the printing.	0
>Retransfer>	Setting the retransfer film: setting the film type Std(1000/roll):0 [1000,750] - two types	Standard (1000/roll):0
Retransfer mode	Setting the retransfer roller temperature:6 gradations can be set from -3 to +2, the larger the value the higher the temperature.	+1
See p. 32	Setting the retransfer speed: 13 gradations can be set from -10 to +2, +2(Fast) Setting the retransfer speed: 13 gradations can be set from -10 to +2, the larger the value the faster the speed.	+2
	Setting the rear retransfer speed: 13 gradations can be set from -10 to +2, the larger the value the faster the speed.	+2
	Setting the way of peeling off the retransfer film: 2 settings [On and Off]	Off
	Stand by selection: In case of both side printing with optional unit connected, select either one of the card sides for standby.2 Settings[Front Wait,Back Wait]	Front Wait
>Buzzer On	Buzzer mode Setting the buzzer ON/OFF: 2 settings [on and off]	On
>Power Saving Off	Power saving mode Setting the time for the power saving mode:9 options [off, 5, 10, 15, 20, 25, 30, 45 and See p. 33 60] (units: minutes)	Off
>Bend Remedy>	Stemp. Level Bend remedy roller temperature setting. 7 gradations can be set from -5 to 0 or off, the larger the value the higher the temperature.	Off
See p. 34	Bend remedy speed setting: 5 gradations can be set from -2 to +2, the larger the value the faster the speed.	+2
Bend Remedy mode	Cooling time setting: 16 gradations can be set: none and 1–15 (units seconds).	None
>Card Thickness Standard	Card tickness setting mode: Card thickness setting: 2 options [Standard,Thin]	Standard
>MG ISO Type Hi-Co	Coercivity setting mode: ISO card coercivity setting: 2 options [Lo-Co and Ho-Co]	Hi-Co
>IC Antenna Pos. None	Non-contact IC antenna setting mode: Non-contact IC antenna position setting: 3 options [None, Ext. Unit, Added on]	
>IC Contact Pos. None	IC contact position setting mode: IC contact position setting: 3 options [None, Built-in, Ext. Unit]	
>Test Print OK?	Test print mode: to carry out test printing: press the ENTER button.	
>Unit No: No.1	Unit No: 7 options [No.1 to No.7] Unit No. setting: press the ENTER button.	No.1
>Transport mode OK?	Transfer Mode: Transfer mode setting: press the ENTER button.	



Clearing the free counter

Reset the free counter.

The [Total] counter and [Head] counter cannot be reset.



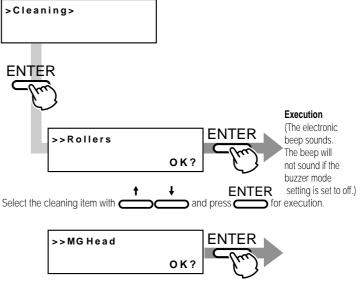
To check that the counter is reset to zero, select "Free Counter" in "Setting the counter type" on p.29.

EAUTION The head counter is cleared to zero each time the thermal head is replaced.

Cleaning mode

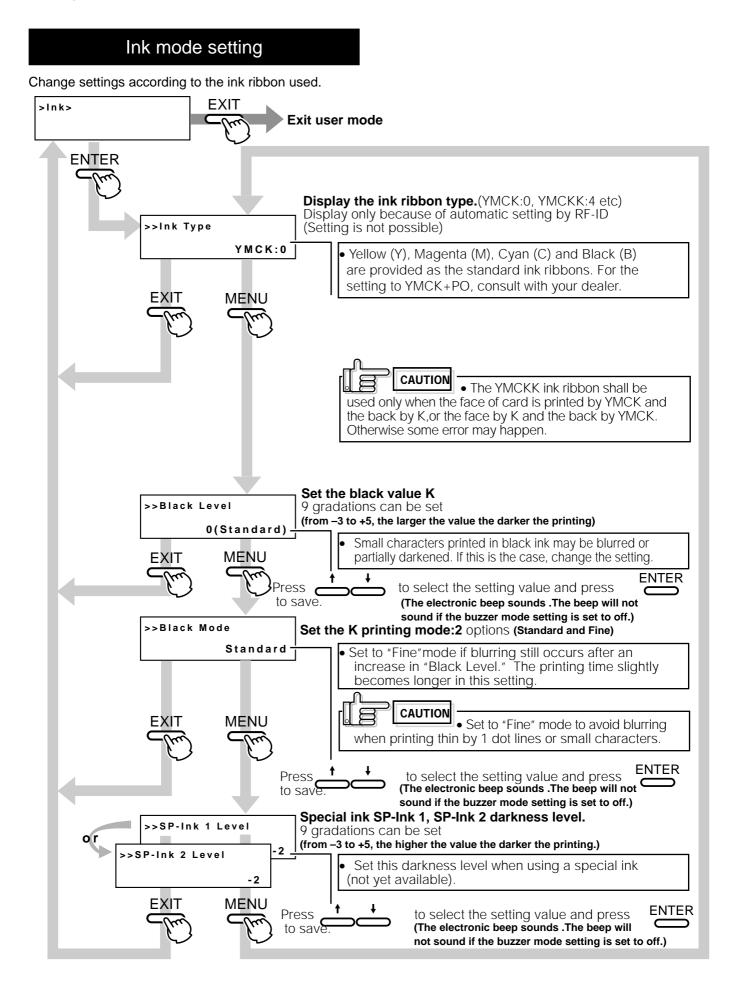
The printer is provided with an operation mode for cleaning the card feed roller and the magnetic head to keep the printer in the best condition.

See p.38,39 and p.40 for executing the cleaning mode.



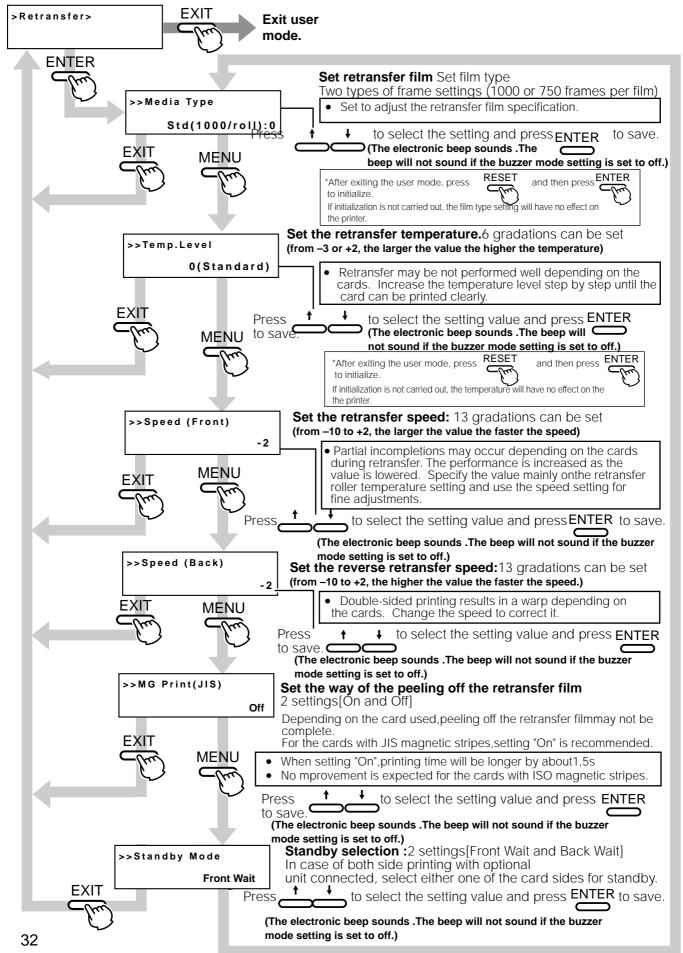
(The electronic beep sounds . The beep will not sound if the buzzer mode setting is set to off.)

To exit the cleaning mode, turn off the power after cleaning.



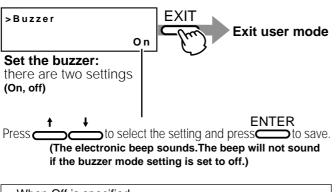
Retransfer mode setting

Change settings according to the retranfer film and card used.



Buzzer mode setting

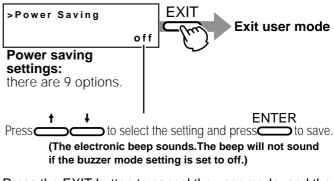
The buzzer indicating errors can be turned on or off.



- When Off is specified.
- electronic beep sound indicating an error,
- electronic beep sound indicating the number of cards, ٠ and
- electronic beep sound indicating settings saved with the ENTER button in the user mode are muted.

Power saving mode settings

The printer enters into the power save mode after a specified period of time if none of operation buttons are touched in the Ready state. The heat roller for retransfer, bend remedial roller, and back-light of the LCD panel are turned off in the power save mode.



Press the EXIT button to cancel the user mode, and the printer starts.

Off:
Not in power saving mode.
Setting options: [5,10,15,20,25,30,45,60] (units: minutes)
If printing is not to be carried out for a period longer than the
set time, switch the unitis heater off. (Power save status)

"Sleeping" appears on the LCD panel in the power save mode. The operation buttons are disabled in this mode. See step 2 in "Canceling the power save mode" to enable the operation buttons.

Sleeping

The printer moves to the power save mode when the specified time arrives even if you turns off the printer and turn it on again.

Canceling the power save mode

1. From the host computer

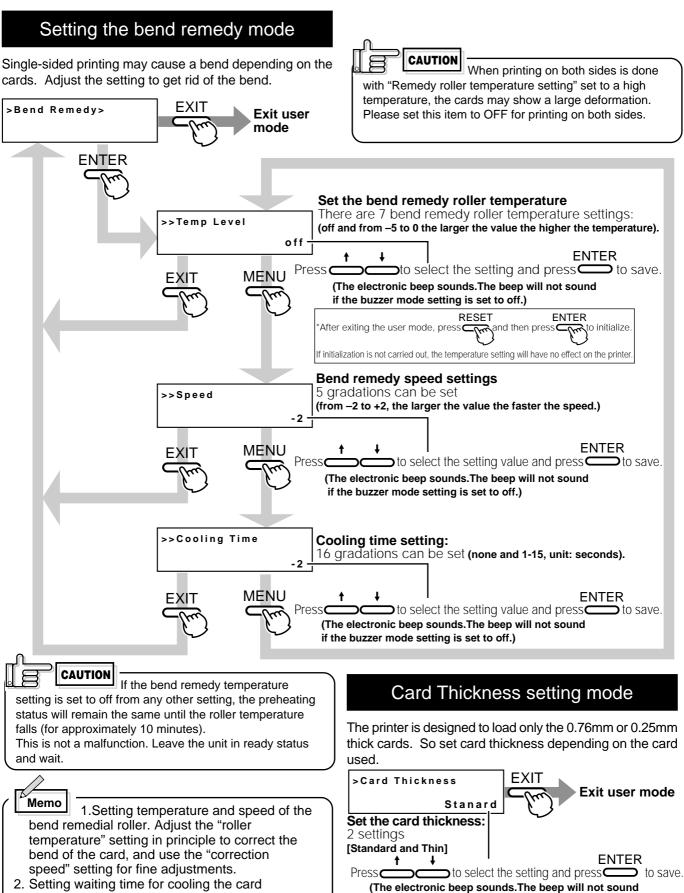
Enter a control command to print the card. The power save mode is cancelled, and printing automatically starts upon completion of preheating.

2. Temporary cancellation

To cancel the power save mode temporarily on the printer, press RESET, then ENTER to initialize the printer.

3. Permanent cancellation

Cancel the power save mode temporarily as described in step 2, and change the power save mode setting to OFF.

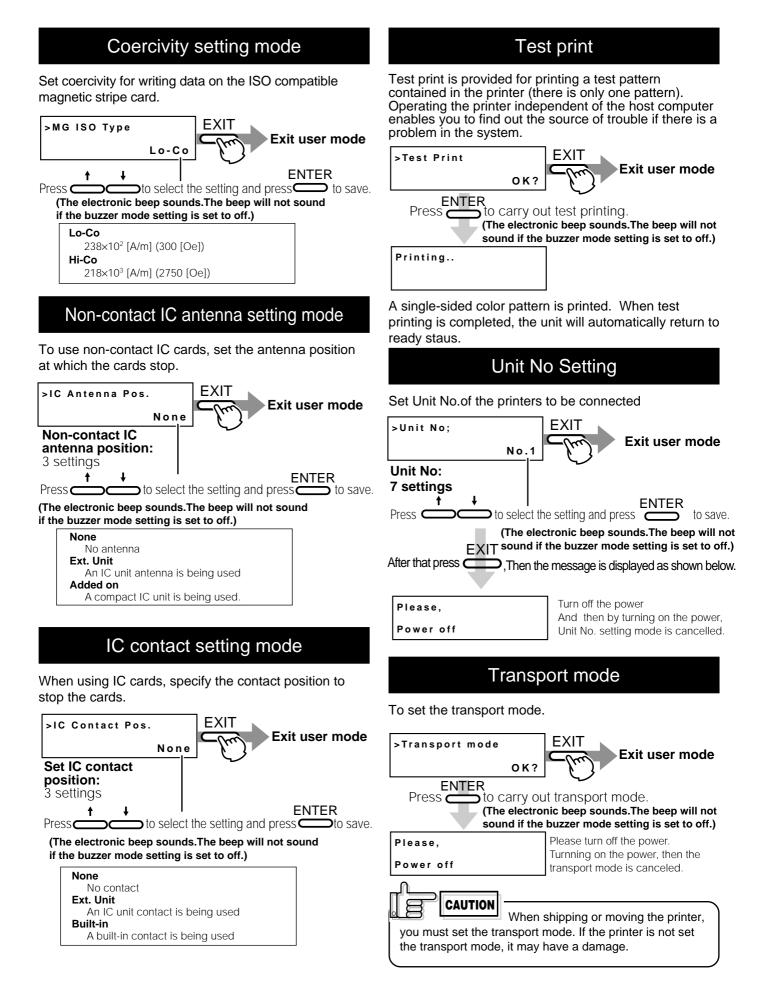


This provides the time for a special film, which will be marketed in the future, to cool down to prevent the card and retransfer film from sticking together after printing.

if the buzzer mode setting is set to off.)

Standard: 0.76mm (0.03 inches)-thick

Thin: 0.25mm(0.01inches)-thick



Care and cleaning

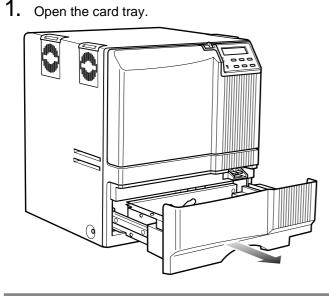
Always make sure that the printer is turned off before cleaning.

(However, cleaning of the card feed rollers and magnetic head should be carried out with the power turned on.) To achieve the best performance from the printer, always check each part before use for dust and dirt and clean if necessary. The following explains the main rollers that require cleaning. For details about other rollers, see p.41 (Internal roller layout). Dust and dirt, particularly on the thermal head, rollers and cleaning rollers can cause print blurs and shifting of colors.

Cleaning the cleaning rollers

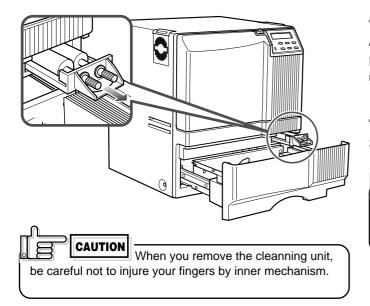
The cleaning rollers remove dust and dirt sticking to the card. Cleaning the cleaning rollers after every use is recommended if the printer is used almost everyday. Depending on the cards, there may be much dust and dirt. In such a case, perform cleaning every 100 to 200 cards. Do not do this, however, during printing operations.

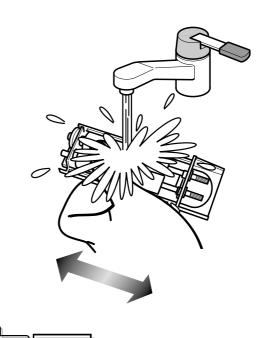
3. Wash the rollers of the cleaning unit with water.Wash out dirt on the roller surface with your fingers. Do not use alcohol or detergents. The cleaning unit should be cleaned only with running water.



2. Remove the cleaning unit.

Pull out the cleaning unit toward you as shown in the illustration below.





CAUTION After washing the cleaning unit with water, wait until it completely dries up and set it in the printer.

4. Push the cleaning unit back into the printer. Push the cleaning unit with the rollers facing upward until it is securely back into the place.

5. Close the card tray.

CAUTION Deteriorated cleaning rollers may cause defects in the printed card. If the rollers begin to deteriorate, replace the cleaning unit. (We recommend replacement after a year)

Care and Cleaning (continued)

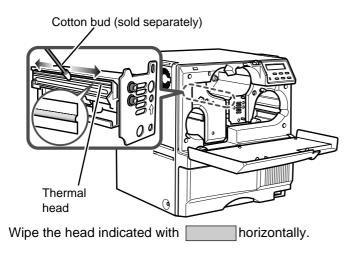
Cleaning the thermal head

When the thermal head gets dirty, defects such as unwanted lines appearing on the printed card may occur. It is recommended to clean the thermal head after printing about 10,000 frames. The thermal head is a consumable component, that is, it has a limited service life.

1. Open the printer door and remove the ink ribbon cassette and the retransfer film cassette.

See p.15, 17 in this manual.

2. Wipe the cleaning head with a cotton bud (sold separately), dipped in alcohol (sold separately).



3. Insert the ink ribbon cassette and the retransfer film cassette, then close the printer door.

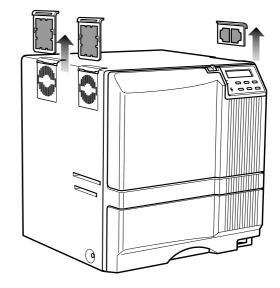
• The thermal head may break if touched with an electrostatic charge. Discharge yourself by touching the printer frame (metallic part) with your hands before cleaning the thermal head.

• Use a cotton bud soaked with absolute alcohol(ethanol). Be careful not to scratch the thermal head with hard materials like metal during cleaning.

Cleaning the fan filter

When the fan filter gets dirty, partial omissions may occur on the printed cards, or the printing result looks dirty. It is recommended to clean the fan filter after printing about 10,000 cards.

1. Remove the fan filters located in three positions on the sides of the printer.

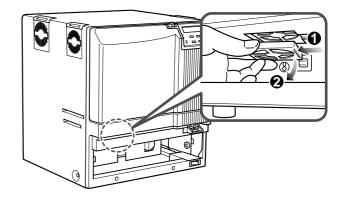


2. Remove the card tray.

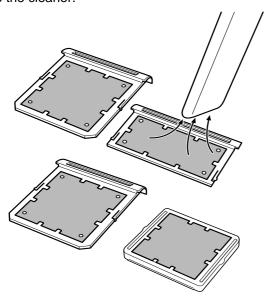
See p.45 in this manual.

3. Remove the fan filter located on the base of the printer (inside the unit).

Bring down the fan filter(side 2) while pressing its side (side 1). The fan filter can be taken out. Mount the fan filter by pressing this side.



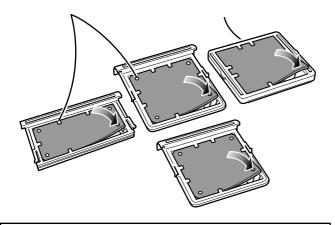
Remove dirt on the fan filter using a vacuum cleaner or other cleaning equipment.
 Hold the sponge with your hand so that it is not sucked into the cleaner.



If the sponge is removed, attach it again as shown below.

Side filter

Press down the sponge into the dents at four corners, and set it under the tabs on the frame. Bottom filter Place the sponge under the tabs on the frame.



Replace the fan filter when it begins to deteriorate.(the elasticity of the sponge is lost and the sponge tends to be broken into pieces.) It is recommended that fan filter should be replaced once a year. Contact your dealer for details of replacing the filter.

5. Install the fan filters back to the original positions.

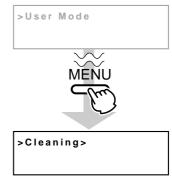
Cleaning the card feed rollers and heat rollers

Dirty rollers are the major cause of jamming of the cards. It is recommended to clean the rollers once after printing about 1,000 cards. It is also recommended to carry out cleaning before the work, because the retransfer roller (heat roller) does not operate while it is hot.

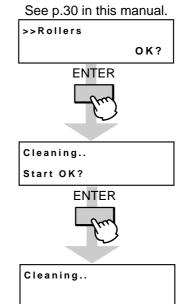
1. Remove the retransfer film cassette. See p.17 in this manual.

2. Turn on the power of the printer. The printer initializes, and the [No Cassette] error is indicated.

 $\textbf{3.} \quad \text{From user mode select cleaning mode.}$



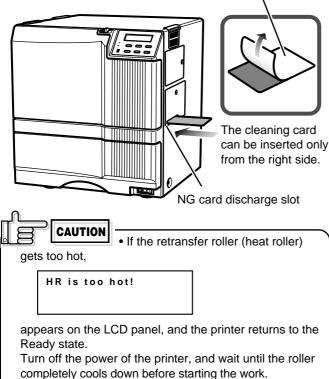
 Press the ENTER button. Select [Rollers] with ↑ and ↓ buttons, and press the ENTER button.



Insert the cleaning card in about 10 seconds. If you fails to set the card within this time, the printer returns to "Start OK?" Press the ENTER button again to proceed.

5. Set a cleaning card.

Peel off the protective paper of the cleaning card and insert it into the NG card discharge slot. The card will be drawn into the unit by the rollers and cleaning will then be carried out from card discharge slot on the left side of the printer. Insert the card with its adhesive face upside down to repeat the cleaning procedure once more. Cleaning card (accessory)



Confirm that the retransfer film cassette has been removed.

- The cleaning card does not go into the card discharge slot at the left side.
- If a card jam occurs, turn off the power, then turn on the power again. The jammed card will be discarded.

6. Turn off the power after the cleaning card is discharged.

Wait for 10 seconds before turning on the power again.

CAUTION The cleaning card can be used only once and disposable after using. If you use the dirty cleaning card many times, the dirt on the card moves onto the rollers, causing damages to the rollers. Consult your dealer for the cleaning card.

Cleaning the magnetic head

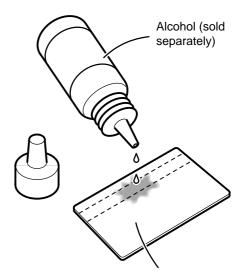
Dirty magnetic head will cause a write/read error. It is recommended to clean the magnetic head after printing about 1,000 cards. Cleaning the magnetic head is not necessary if the magnetic stripe card is not used.

- 1. Keep the ink ribbon and retransfer film cassettes in their mounting positions.
- 2. Comfirm that the READY LED(Green) is lighted
- $\textbf{3.} \hspace{0.1 cm} \textbf{Specify the "cleaning" mode in the user mode.}$

See p.27 in this manual.

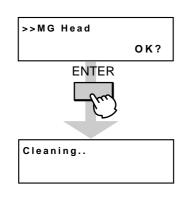


4. Apply alcohol on the magnetic head cleaning card. Drip three or four drops of alcohol on the magnetic stripes.



Magnetic head cleaning card (sold separately)

- **5.** Set the card on the card tray. Place the card in right direction. See p.21.
- 6. Press the ENTER button, select "MG Head" with the \uparrow or \downarrow button, and press the ENTER button.



7. When the cleaning card is discharged from NG card discharge slot, turn off the power of the printer. Wait for 10 seconds before turning on the power again.

Consult your dealer on the alcohol and cleaning card.

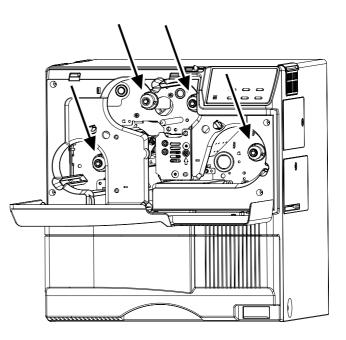
Cleaning of the bobbin holders

Dirt on the bobbin holders may appear on the card or the film, cause defects on the card. Clean the bobbins when replacing ink ribbon or retransfer film.

1. Remove the cassettes of ink ribbon and retransfer film.

See p.15 and 17 of this manual.

2. Wipe 4 bobbin holders with "Kim-Wipe" soaked with absolute alcohol(ethanol)



Once printer servicing and cleaning have been completed

Once servicing and cleaning of the printer have been completed, check to make sure that all parts have been replaced properly.

Improper replacement of parts may result in the power not turning on or in operating errors.

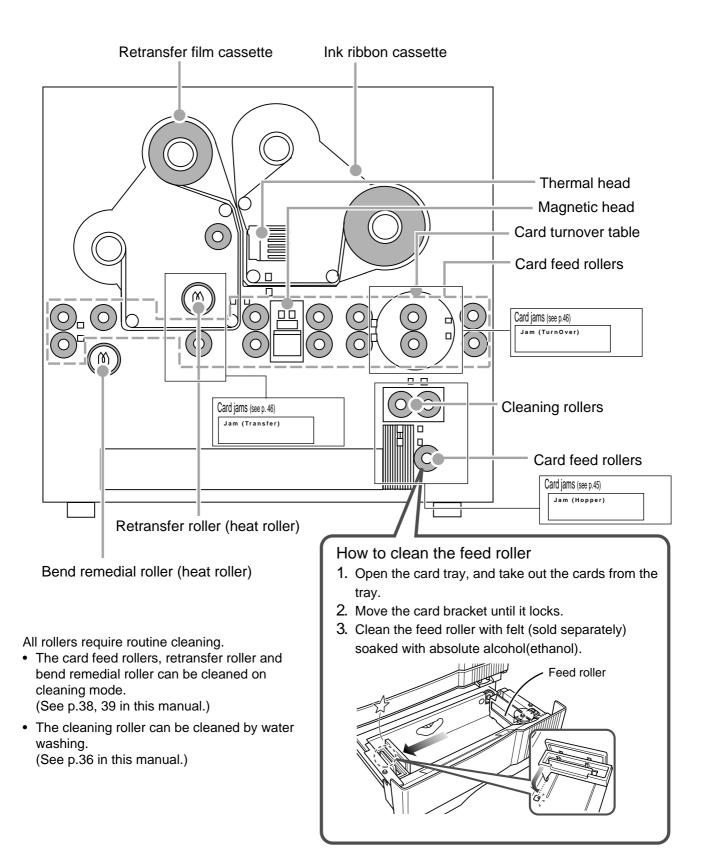
Periodical Maintenance

Periodical maintenance by the service personnel is recommended to avoid print error and failure. Consult your dealer for maintenance period and cost.

Troubleshooting

Layout of rollers inside the printer

Below is a diagram of the layout of rollers inside the printer. Refer to this diagram in the event of card jams and when cleaning the rollers.



Error code listing

The meaning of "reset \rightarrow enter buttons" in the list is, after pressing the Reset button, press the Enter button to initialize the unit.

Error code	Description of error	Remedy
Please, Power Off.	The power must be turned off so that the unit can be initialized.	Turn off the power and then on again.
Please Remove Media Cassette	The cleaning mode can not be set because there is a retransfer film in the unit.	Remove the retransfer film cassette, then press the "reset \rightarrow enter buttons" and set the cleaning mode again.
HR is too hot.	The cleaning mode can not be set because the temperature of the heat roller is too high.	 Turn off the power and allow about 20 minutes for the heat roller to cool. Then turn on the printer and set the cleaning mode again. Confirm that the retransfer film cassette has been removed.
Jam (Hopper) 90	Card jam (hopper section)	Turn off the power and remove cards from the hopper. Turn on the power.
Jam (TurnOver) 91	Card jam (turnover)	Remove cards from the turnover section. Press the "reset \rightarrow enter buttons" and initialize the unit.
Jam (MG) 92	Card jam (encode section)	Press the "reset \rightarrow enter buttons" and initialize the unit. If no cards are discharged, turn off the power and remove the cards. Turn on the power.
Jam (Transfer) 93	Card jam (retransfer section)	Turn off the power and remove the cards from the retransfer section. Turn on the power.
Jam (Discharge) 94	Card jam (card discharge section)	Turn off the power and remove the cards from the paper discharge section. Turn on the power.
Media Broken A0	The retransfer film See p.44	Mend the retransfer film. Press the "reset \rightarrow enter buttons" and initialize the unit.
Media Search A1	Retransfer film search error	Reset the retransfer film. Press the "reset \rightarrow enter buttons". Call for service if the problem persists.
Media Run Out A2	The retransfer film has run out	Replace the retransfer film. Press the "reset \rightarrow enter buttons" and initialize the unit.
Ink Broken B0	The ink ribbon has broken	Mend the ink ribbon. Press the "reset \rightarrow enter buttons"n and initialize the unit.
Ink Search B1	Ink ribbon search error (RF-ID read error)	Reset the ink ribbon. Press the "reset \rightarrow enter buttons" and call for service if the problem persists.
Ink Run Out B2	The ink ribbon has run out	Replace the ink ribbon. Press the "reset \rightarrow enter buttons" and initialize the unit.
Turn Over Unit CO	Turnover mechanism error	Press the "reset \rightarrow enter buttons" and call for service if the problem persists.
Heater Cam C1	Heat roller operation error	Turn the power off and then on again. Call for service if the problem persists.
No Card	 No card The card tray is open or has been removed. 	 Replenish the cards. Close the tray correctly.
Door Open D1	The printer door is open	Close the door. Press the "reset \rightarrow enter buttons" and initialize the unit.
No Cleaning Unit D7	Cleaning units missing	Attach the cleaning units. Press the "reset \rightarrow enter buttons" and initialize the unit.
No Cassette D6	Cassette missing	Attach both the ink ribbon cassette and the retransfer film cassette. Press the "reset \rightarrow enter buttons" and initialize the unit.

Should your printer require servicing, turn it off and unplug it and make inquiries at the outlet where it was purchased.

Error code	Description of error	Remedy
Hardware ** B8	Hardware error	Turn off the power and then on again. Call for service if the problem persists.
TR Overheat F0	Retransfer roller overheating	Turn off the power and then on again. Call for service if the problem persists.
TR Broken F1	Retransfer roller malfunction	Turn off the power and then on again. Call for service if the problem persists.
TR Sensor Broken F2	Retransfer roller thermister malfunction	Turn off the power and then on again. Call for service if the problem persists.
RR Overheat F3	Bend remedy roller overheating error	Turn off the power and then on again. Call for service if the problem persists.
RR Broken F4	Bend remedy roller malfunction	Turn off the power and then on again. Call for service if the problem persists.
RR Sensor Broken F5	Bend remedy roller thermister malfunction	Turn off the power and then on again. Call for service if the problem persists.
Overcool F6	Overcool	The usage environment temperature is too low. Use at the specified usage environment temperature. (Call for service if the problem persists.)
Head Overheart F8	Thermal head overheated	Turn off the power and leave the unit for about 10 minutes before switching on again. (Call for service if the problem persists.)
EEPROM Broken FA	EEPROM malfunction	Turn off the power and then on again. Call for service if the problem persists.
MG Unconnected A9	MG connection error	Turn off the power and then on again. Call for service if the problem persists.
MG Mechanical AB	MG mechanical error	Turn off the power and then on again. Call for service if the problem persists.
MG Hardware AC	MG hardware error	Turn off the power and then on again. Call for service if the problem persists.
MG Comminucate AF	MG communication error	Check the I/F cable connected correctly.Turn off the power and then on again. Call for service if the problem persists.
EXT. Unconnected B9	Connected external device malfunctioning	Turn off the power and then on again. Call for service if the problem persists.
EXT. SW Setting BA	External device switch setting error	Turn off the power and then on again. Call for service if the problem persists.
EXT. Jam BB	External retransfer unit jam error	Press the "reset \rightarrow enter buttons" and remove cards if they are not discharged. Press the "reset \rightarrow enter buttons" and call for service if the problem persists.
EXT. Comminucate BE	External unit communications error	Check the I/F cable connected correctly.Turn off the power and then on again. Call for service if the problem persists.
EXT2 Comminucate BF	External unit2 communications error	Check the I/F cable connected correctly.Turn off the power and then on again. Call for service if the problem persists.
Hardare 44	Hardware error	Turn off the power and then on again. Call for service if the problem persists.

Stopping when printing

The printer may stop with no error messages If some failure with the connection to the host computer occur or the not proper ink ribbon is set.

In this case, open and close the printer door at once, and then press "reset" and press "enter" to intialize the printer.

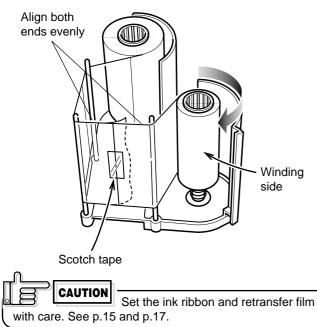
Mending broken ink ribbon and retransfer film

If the ink ribbon or retransfer film is broken, mend it in the following procedures:

1. Trim neatly the end of broken portions with a pair of scissors.

2. Align both ends and apply the Scotch tape in the center of the aligned ends. Please do not discard the used ink ribbon or retransfer film on the winding side.

3. Turn the ink ribbon or retransfer film to the winding side with your hand until the mended portion is completely wound up.



About printing errors

If blurring or color shifts occur in your print results, clean all rollers starting with the cleaning rollers.

Some image errors may depend on the design of the card to print.

In particular, wrinkles can easily occur if large surfaces are printed with high density ink.

To avoid such problems, contact the dealer where the printer was purchased concerning card designs.

When retransfer operation is not complete

Depending on the cards used, retransfer operation may not be complete. In that case, try the following items. (See Page 32, "Retransfer mode setting")

1. Try to increase the retransfer temperature.

2. Try to decrease the retransfer speed. For the reverse side of the card, try to decrease the reverse retransfer speed.

3. Dust on the card surface. Use clean cards with no dust. Use the attached gloves to avoid fingermark on cards.

4. Ambient temperature

Retransfer operation may not be complete if the temperature of card surface is very low such as the card first printed in the cold morning. In that case, wait until the room becomes warm enough.

Caution when printing characters

When printing small characters or thin lines in black ink, the thickness of minimum 2 dots necessary for "Standard" mode.

Printing small characters or thin lines by 1 dot tends to cause blurring.

To avoid this tendency, following settings are recommended. See "Ink mode setting" on Page 31. 1. Set the black value K:

Try to increase setting value to more than 0 (Standard) Then darker printing is possible.

2. Set the K printing mode:

Change mode from "Standard" to "Fine".

Then thicker printing is possible.

If blurring still appears after having tried the above setting , selecting more adequate character font is recommended.

Removing card jams

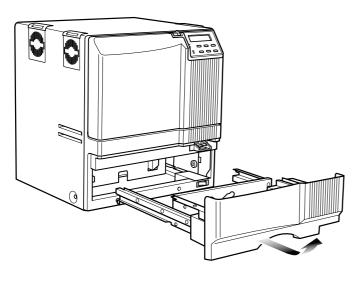
To determine the part of the machine affected by a card jam refer to the error code on the operation panel LCD panel on the printer and the relevant page in this manual.

When removing a jammed card, make sure that the printer is turned off before carrying out the following procedure.

Hopper jam

1. Pull out the card tray.

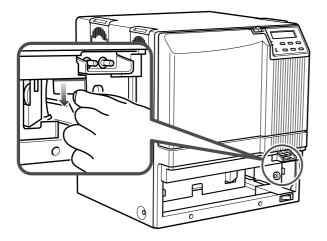
To remove the card tray, pull it out toward you until it no longer moves and lift it.



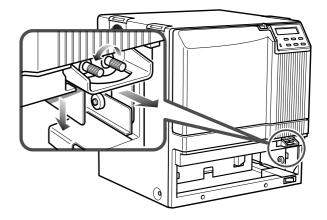
2. Remove the jammed cards.

If you can hold the jammed card, pull it out.

- - - - - - - - - -



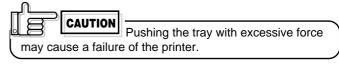
If you cannot hold the jammed card: Pull out a small portion of the cleaning unit.



Turn the right knob to drop the jammed card. Remove the fallen card.

3. Return the card tray to its original position. Push the card tray back into position on an angle.

Push the card tray back into its position while placing the card tray tabs on the folded over metal plates.

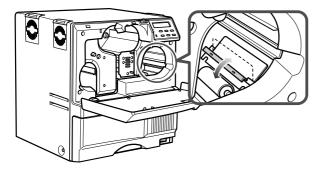


Turnover section [Jam (turnover)]

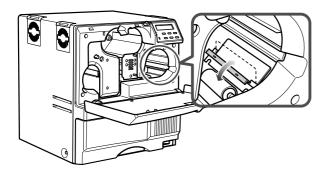
1. Open the printer door and remove the ink ribbon cassette.

See p.15 in this manual.

2. Remove any jammed cards.



• If you can pull out the jammed cards, take them out.



• If the jammed cards come out of the turnover table, push them back into the table, and rotate the table slowly (as it is positioned vertically) until the table is located so that the cards can be taken out.

▲ CAUTION



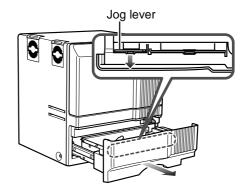
• When rotating the turnover table, be careful not to touch the metal edge. Wear a glove for this work.

Retransfer section [Jam (transfer)]

1. Open the printer door and remove the retransfer film cassette.

See p.17 in this manual.

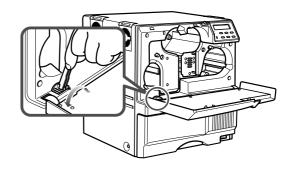
2. A jog lever are supplied as standard. The jog lever are attached to the center of the card tray



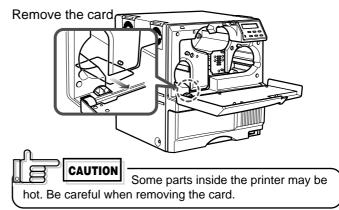
Turn the tabs in the arrow direction and take out the jog lever and removal stick.

3. Turn the jog dial to move the card to the position where it becomes visible.

Turn the jog dial with the attached jog lever.



4. Remove the card.



Specifications

Main specifications

Recording method	: Sublimation type retransfer	
Feed format	: Automatic feed	
Recording density	: 300 dpi	
Expression gradation	: 256 for Y, M, C and 2 for Bk	

Interface : USB2.0(Hi-speed) Operating environment conditions Temperature: 15°C ~ 30°C		
Humidity: 35% ~ 70%		
(no condensation)		
Storage environment conditions		
Temperature: -15°C ~ 55°C		
Humidity: 20% ~ 80%		
Power supply : 100~120ACV/220~240ACV		
(allowance±10%)		
Current dissipation : 7.0A (for 100V system)/5.0A	(for	
200V system)		
Mass : Standard 22kg		
Excluding the built-in magne	tic	
encoder		
Accessories : Power cord for 120ACV		
(North America)	(North America)×1	
for 220~240ACV		
(Europe)	×1	
Manual(English)	×1	
Cleaning card	×1	
Card stacker	×1	
Ink ribbon cassette	×1	
Retransfer film cassette	×1	
USB cable	×1	
Jog lever (contained in the		
card tray)	×1	
Groves	×1	

CX21ICL Series (Large-type IC unit)

Power supply	: Fed from the printer.	
	DC 5V±5%, DC 12V±5%, DC 24V±5%	
Current dissipation	: 500mA, 300mA, 1A	
Mass	: 3.5kg	
Dimension (mm)	: 110(W) × 221(D) × 255(H)	
Accessories	: Joint plate \times 1	
	Inter-unit cable $ imes$ 1	

CX21ICS Series (Compact IC unit)

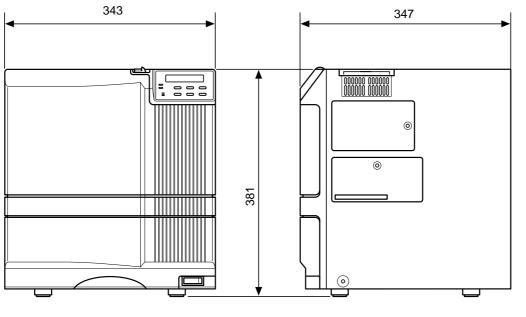
Power supply	: Fed from the printer.	
Mass	: 0.5kg	
Dimension (mm)	: 50(W) × 152(D) × 115(H)	
Accessories	: Screw (with washer) \times 3	
	Screw (without washer) × 2	

Products sold separately : Ink ribbon(YMCK) • 1,000 frames/set	: Cleaning card 10 cards/set Model: CX210-CC1	: Compact IC unit Non-contact IC encoder
Model: DIC10216 Ink ribbon(YMCKK) • 750 frames/set Model: DIC10217		: Large-type IC unit Mounts either a Non-contact or contact IC encoder.
Retransfer film		
 1000 frames/set 		
Model: DIC10085		

The specifications and external appearance of this product are subject to change for improvements without a prior notice.

Specifications (continued)

External appearance and dimensions



Front view

Side view

unit/mm

Software License Agreement

The software covered by this document is the computer program developed by Victor Company of Japan Limited. a Japanese company, for certain card printer products ("Products"), and is composed of the "USB Driver", "Status Monitor" and "Printer Driver". The foregoing software, including the attached documentation such as its startup guide, user's manual, etc. ("Documentation"), is referred to as "this Software" hereafter.

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Article 4 Limited Warranty

- 1. When this Software is provided in the form of Tangible Media, our Company warrants that such Tangible Media is free from the physical defects at the time of delivery. With respect to the "USB Driver" and "Status Monitor" of this Software, our Company warrants that they will materially operate in conformity to the main functional specifications expressed in the Documentation for ninety (90) days after the delivery date of this Software, provided that the Initiation thereof was proper and that it is operated correctly, according to the Documentation.
- 2. The limited warranty in Section 1 above is subject to the condition that the operating system ("OS") of the PC you intend to use in connection with this Product must be of such types and versions as our Company stipulates in the Documentation. Our Company verifies that this Software will function when such stipulated OS is used in combination with then major PC models at the time of delivery, however does not warrant that it will function properly when used in combination with any and all PC models. It is recommended that you first check the functioning of this Software in the environment where you use it, according to the Documentation immediately after its delivery.
- 3. This Software is provided "As Is" with no warranties except the limited warranty expressed in this Article. Our Company is not obliged to provide updates such as modified or enhanced versions of this Software. No warranties whether express or implied are made with respect to this Software in regards to its merchantability, fitness for a particular purpose, non-infringement of third party intellectual property rights, or any other matters not expressly provided for herein. Any problems occurring with respect to this Software shall be resolved at your sole responsibility and expenses.

Article 5 Indemnification

Our Company shall not be liable for any damages in connection with the use of this Software, including direct, incidental, consequential, special and punitive damages, etc., whether based on this Agreement or otherwise, even if our Company has been or could have been aware of such damages. Similarly our Company shall not be liable for any claims by any third party against you or your customers, nor shall our Company be obliged to compensate such third party or indemnify you or your customers for such claims. You shall indemnify and hold harmless our Company, its affiliates and Licensor worldwide from any claim, damage, loss, expense, including attorney's fees, or liability in connection with your use of this Software.

Article 6 Term

- This Agreement and this License shall come into effect when the earliest act of Initiation implemented on your certain PC occurs. Our Company may terminate this License without notification if you are in breach of any provision in this Agreement. Our Company further reserves the right to claim for any damages it may suffer arising from such breach by you.
- 2. Upon termination of this License, you shall immediately destroy or delete this Software and all its copies, (which shall include erasing the copies stored or recorded on your PC, other hardware, memory, etc.) except those in the form of Tangible Media which shall be returned to our Company, at your responsibility, and shall submit a certificate of such destruction and deletion on our Company's request.

Article 7 Export Control

You agree not to illegally export, re-export or otherwise ship this Software, or any part thereof, including the information or technology, etc. embodied in this Software, to any country, territory, organization or individual, the shipping to which is prohibited or restricted by Japan and the respective countries concerned.

Article 8 Others

- 1. Any modification, addition, deletion or other changes to this Agreement shall be invalid unless such changes are made in writing and affixed with the name and seal of or signed by the authorized representative of our Company.
- This Agreement shall be governed by and construed in accordance with the laws of Japan. Any disputes arising out of this Agreement shall be subject to the exclusive jurisdiction of the Tokyo District Court as the court of first instance.
- 3. If any provision of this Agreement is held to be invalid according to the laws of Japan, the remaining provisions will still remain in effect.

End of Agreement

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