

User's Manual

CV CS Preliminary Edition

Ver. 1.10



**In order to use safely –
Please be sure to follow with the instruction!**

- Be sure to read this manual before put the printer in operation. After that, please keep the manual for the time to reread whenever necessary.
 - Please don't touch, disassemble nor repair any part of the printer other than the part to which this manual instructs.
-
- In order to prevent the harm to those who use, or to other persons, and to the damage to property, the matter surely has to be followed is shown as follows.
 - The level of the harm and damage which is caused by miss operation or wrong use of the printer without following the instruction is explained as follows.



Warning

This shows "a possibility of death or a serious damage will be assumed" if wrong operation is carried out without following this notice.



Caution

This shows "a possibility of undertaking an obstacle, or material damage will be assumed" if wrong operation is carried out without following this notice.



This mark is a picture of "notice" which should be taken care



Warning

The following action has possibilities to make the printer be damaged, broken down, or heated, and fumed.

So do not carry out by any means, since it becomes the cause of a fire and an electric shock.

When any damage and/or serious trouble happens, please switch off the printer and pull out a power plug from a wall socket, and ask supplier for their help.

- Please don't drop, step on, give strong pressure or a strong shock on the printer.
- Please don't install the printer in the place where non air flow is and also don't use the printer by disturbing air flow to/from the printer.
- Please don't install the printer in the place where gives chemical reactions, such as a laboratory, and the place where air contains salt and gas.
- Please do not use the printer other than the specified power supply voltage and frequency.
- At the time of power cable/interface cable connection and disconnection, please pay special attention not to move and/or carry the printer with giving weight pressure to the cable.
- Please don't drop foreign substances, such as a clip and an insect pin, inside in the printer.
- Please don't plug several power supply leads into a single socket.
- Please don't spill drinks, such as tea, coffee, and juice, to the printer, or don't blow a insecticide spray to the printer. When water etc. is spilt, please switch off the printer and pull out a power supply code from a wall socket, and ask supplier's help.
- Please don't disassemble nor modify the printer.

Please keep or throw the bag containing the printer away to the safety place where a hand does not reach so that a child may not wear. If it is worn, there is fear of suffocation.

General notice

1. In use of the printer, please read out "in order to use safely" in advance well and follow with it's instruction.
2. Be careful not to drop a clip or a thing like a pin into the printer. It becomes the cause of failure.
3. Be careful of movement and carrying of the printer enough. If the printer is dropped, there is a possibility of damaging body and/or anything others.
4. In opening a cover, please work after opening a cover completely. There is a possibility of a cover closing and damaging the body etc.
5. Be careful of a cover when the cover is opened. There is a possibility of damaging the body with cover edge etc.
6. Please don't open the printer cover during printing.
7. When you clean the printer housing, please don't use thinner, trikren, benzine, a ketone liquid agent nor a chemistry dustcloth.
8. Please avoid to use the printer in the place with much oil, iron powder, garbage, dust, etc.
9. Please don't spill a liquid etc. to the printer or don't blow a medicine etc.
10. Please don't step on the printer, don't drop, don't strike, or don't give a strong shock or strong vibration.
11. Be careful in the edge part of sheet metal not to damage your body and anything others.
12. If abnormal problem occurs while in use of the printer, please stop use immediately and pull out a power supply plug from a wall socket.
13. Please don't disassemble the printer at the time of unrecoverable failure, and ask supplier's help.

Notice for the installation

1. In use of the printer, please read out "in order to use safely" in advance well and follow with it's instruction.
2. Please don't use the printer in the places where temperature is unusually high, such as near the place with fire or moisture, the place where direct rays hit, a heating instrument, or a heat instrument, a low place, and a place of high humidity and dusty.
3. Please don't install in a place from which chemical reactions, such as a laboratory, are generated.
4. Please don't install in a place where air contains salt and gas.
5. Please install a printer on the flat and stable table where enough air flow is given. (Please don't close fan blow off with a wall etc. by any means.)
6. Please don't put anything on the printer.
7. Since it may become the cause of a receiving obstacle if it is used near radio or the television or the same wall socket is used, be careful.
8. Please don't use the printer other than the specified voltage and frequency.
9. Please don't place anything on power supply cable and don't step on it.
10. Please don't pull nor carry the printer by power supply code or interface cable.
11. Please don't plug several power supply leads into a single socket.
12. Please don't bundle power supply codes for using.
13. Please be sure to catch the plug for extraction and/or insertion of power supply cable.
14. Please be sure to connect and/or disconnect the interface cable only after printer switch off.
15. Please avoid long distance cabling and/or to connect with the equipment having much noises. If there is no other way, please take sufficient measures to use a shield line, a twisted pair wire, etc. for every signal line.
16. Please install the printer in such place where the wall socket is near from and it's easy to disconnect the plug from the wall socket to shut the power supply easily.
17. Please use 3 pins cable plug with a ground for wall socket. If it is not used, there is a possibility be injured with static electricity.
18. Please use the power supply cable specified.
Please use the cable approved by safe standard of each country.

- Japan

Code set No INQ.1404 (60000990)

| | Part number | Rating | Acquisition standard File No. |
|-----------|-------------|------------------------|---|
| Plug | CAT-105 | 125V 12A | JET1806-43001-1002 |
| Code | HVCTF | 1.25mm ² 3G | Formal recognition No. Grade A 12-9193 |
| Connector | EF-28 | 125V 12A | Formal recognition No. Grade A 41-25445 |

Code set No 5-AB0632 (60001020)

| | Part number | Rating | Acquisition standard File No. |
|-----------|-------------|------------------------|-------------------------------|
| Plug | KP-218 | 125V 12A | JET1807-43001-1002 |
| Code | VCTF | 1.25mm ² 3G | JET2178-12009-1003 |
| Connector | EF-28 | 125V 12A | JET1807-43004-1005 |

- United States, Canada

Code set No INQ.1417 (60000980)

| | Part number | Rating | Acquisition standard File No. |
|-----------|-------------|------------------------|---|
| Plug | CAT-009 | 125V 13A | UL: E69228 CSA: LL93534 |
| Code | SJT | 1.25mm ² 3G | UL: E69167CSA: LL97391 LL92902 LL42379 |
| Connector | EF-28 | 125V 13A | UL: E69228 CSA: LL93534 |

Code set No 5-AB0638 (60001010)

| | Part number | Rating | Acquisition standard File No. |
|-----------|-------------|------------------------|-------------------------------|
| Plug | KP-30 | 125V 13A | UL: E118569 CSA: LR84390 |
| Code | SJT | 1.25mm ² 3G | UL: E42955 CSA: LL84512 |
| Connector | KS-32 | 125V 13A | UL: E118569 CSA: LL84391 |

- South Korea

| | | | |
|-------------|-----------|------------------------|-------------------------------|
| Code set No | ***** | (*****) | |
| Plug | CAT-303 | 250V 10A | Acquisition standard File No. |
| Code | SJT | 1.00mm ² 3G | ***** |
| Connector | EF-28 (E) | 250V 10A | ***** |

- Europe

| | | | |
|-------------|---------|------------------------|--------------------------|
| Code set No | 764S | (60000960) | |
| Plug | 203 | 10 / 16A 250V | Acquisition standard No. |
| Code | H05VV-F | 1.00mm ² 3G | EN60799 |
| Connector | EF-28 | 250V 10A | EN60799 |

| | | | |
|-------------|-----------------|------------------------|--------------------------|
| Code set No | 764S | (60001030) | |
| Plug | KP-4819Y | 10 / 16A 250V | Acquisition standard No. |
| Code | H05VV-F(GTCE-3) | 1.00mm ² 3G | IEC60884 |
| Connector | KS-31A | 250V 10A | IEC60227-5 |
| | | | IEC60320-1 |

Regulatory compliance statements

American users

FCC part 15

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Caution: Use shielded cables to connect this computers.

Any changes or modifications not expressly approved by the grantee of this device could void the users authority to operate the equipment.

Canadian users

ICES-003

This digital does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of industry Canada.

Le pré'cent appareil numerique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Class B prescrites dans le règlement sur le brouillage radioélectrique édicte par industrie Canada.

RSS210

"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."

European users

European directives

This information Technology Equipment has tested and found to comply with the following European directives:

- EMC Directive 89/336/ECC amending directive 92/31/ECC & 93/68/ECC as per
EN 50022:1998 Class B
EN 61000-3-2:1995/A1:1998/A2:1998
EN 61000-3-3:1995
EN 50024:1998 according to
EN 61000-4-2:1995 EN61000-4-5:1995
EN 61000-4-3:1996 EN61000-4-6:1996
EN 61000-4-4:1995 EN61000-411:1994
- Low Voltage Directive (Safety) 73/23/ECC as per
EN60950:2000 or IEC60950:1999

日本のお客様へ / Japanese Users

電波障害について

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラス B 情報技術装置です。この装置は、家庭環境で使用することを目的としています。この装置がラジオやテレビジョンの受信機に近接して使用されると、受信障害を引き起こす可能性があります。
取扱説明書に従って正しい取り扱いをしてください。

VCCI statement

This equipment is in the Class B category (information Technology Equipment to be used in a residential area or an adjacent area thereto) and conforms to standards set by the Voluntary Control Council for interference by information Technology Equipment aimed at preventing radio interference in such residential areas. When used near a radio or TV receiver, it may become the cause of radio interference. Read instructions for correct handling.

South Korea users

電波障害について

この機器は A 級機器 (家庭用情報通信機器) です。
機器は家庭用として電磁波適合登録を終えた機器ということで、住居地域ではもちろん全域での使用が可能です。

RRL statement

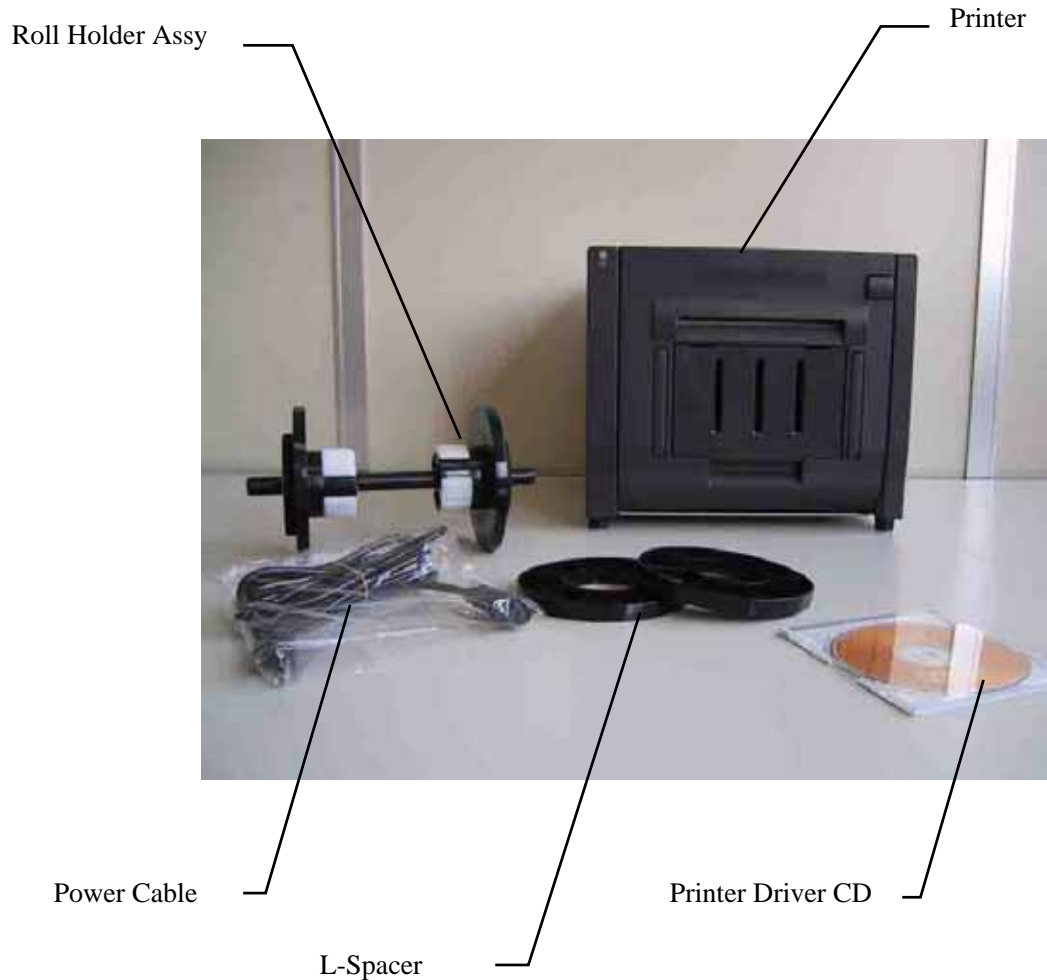
This apparatus is Class A apparatus (home information communication apparatus).
As home use, apparatus is apparatus which finished electromagnetic wave conformity registration, and, of course, use in the whole region is possible for it in a residential area.

Chapter 1 Printer Setup

1. Please check the contents of supplied
2. Name of each part
3. Connect Power cable
4. Connect Host computer (PC)
5. The way to set Paper Cut Off Box
6. Check of Paper and Ribbon
7. Paper and Ribbon mounting

1. Please check the contents of supplied

Please check that the printer and all accessories are packed in without missing.



* Please keep the package box, packing material, etc. for transportation.

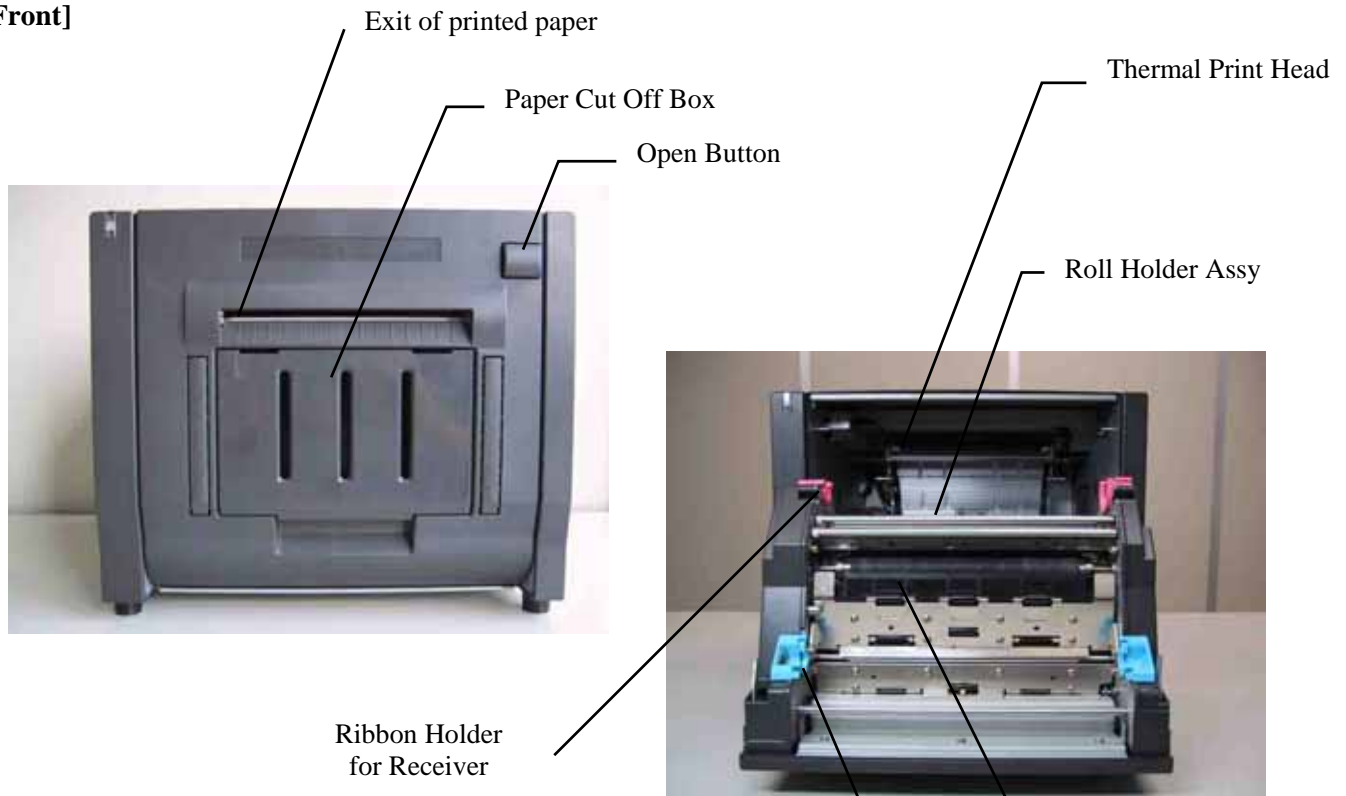


Caution

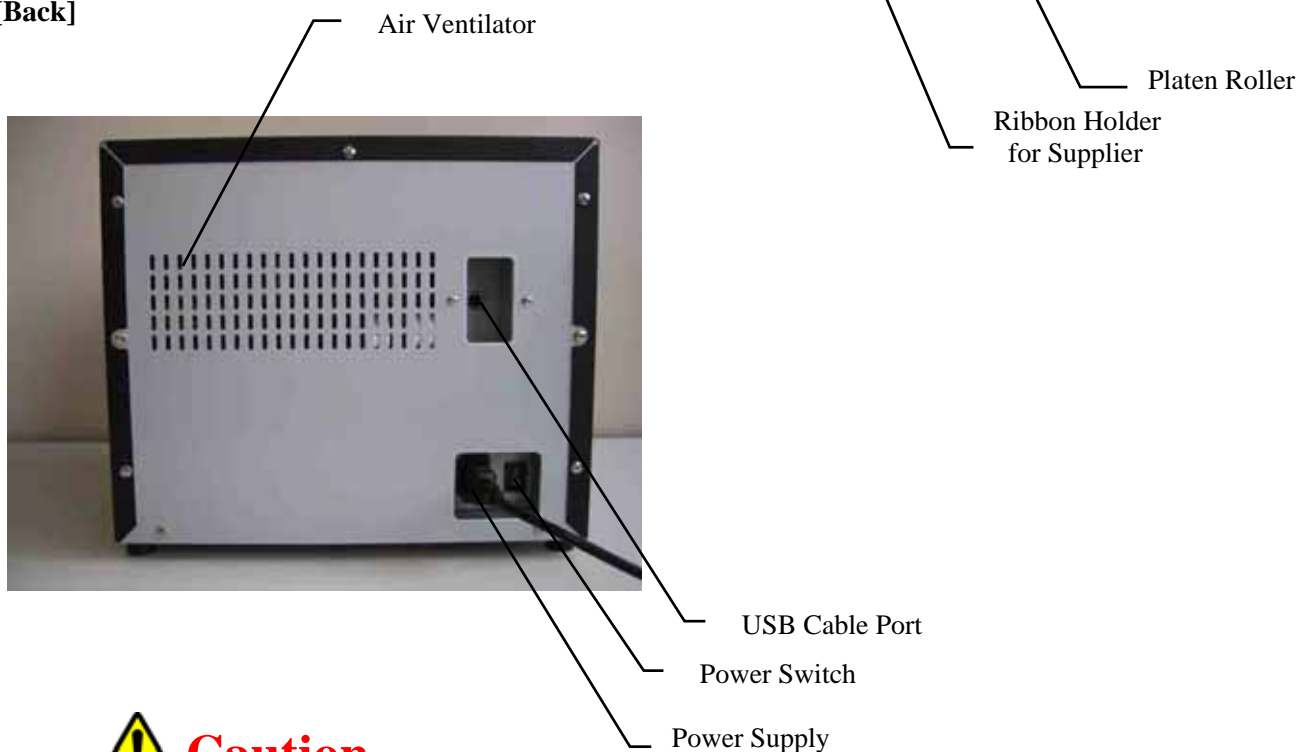
- * Please be careful to move or carry the printer and/or to take the printer out from packing box.
- * In case if the printer is fallen down, it's possible to make damage your body or anything.
- * When you take the printer out from packing box, please hold bottom of the printer.
- * Styrene is so weak to be easily broken, and the printer shall be fallen down if styrene is taken up for taking the printer out from packing box.
- * Please set the printer on the place of flat and clean (not dusty).
- * Installation at the place of poor air flow or closing air inlet of printer is prohibited.
- * Also the place having direct sunshine is prohibited.

2. Name of each part

[Front]



[Back]



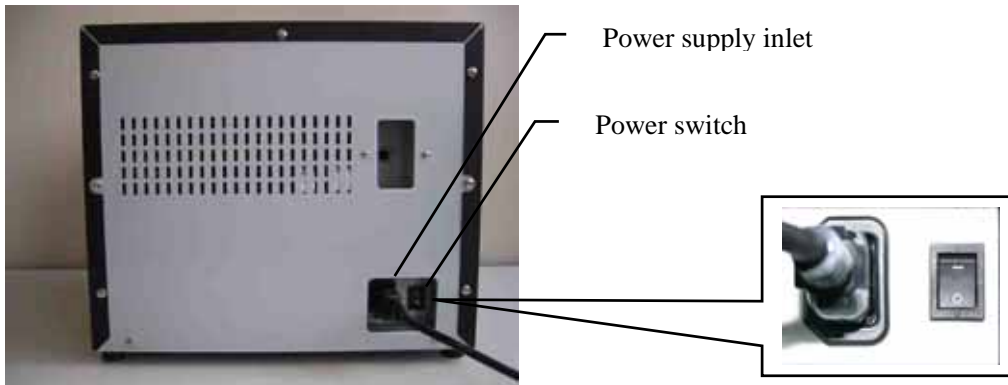
Caution

* In opening paper cover, please work after opening completely. Otherwise, there is a possibility of cover closing, which may damage your body etc.

* Please be careful of cover when the cover is opened. There is a possibility of damaging your body etc by cover edge etc.

3. Connect Power Cable

1. Please confirm that the power switch should be OFF.
2. Inserts the connector of power supply cable in the printer's power supply inlet.
3. Connects the plug of power supply cable in wall socket.

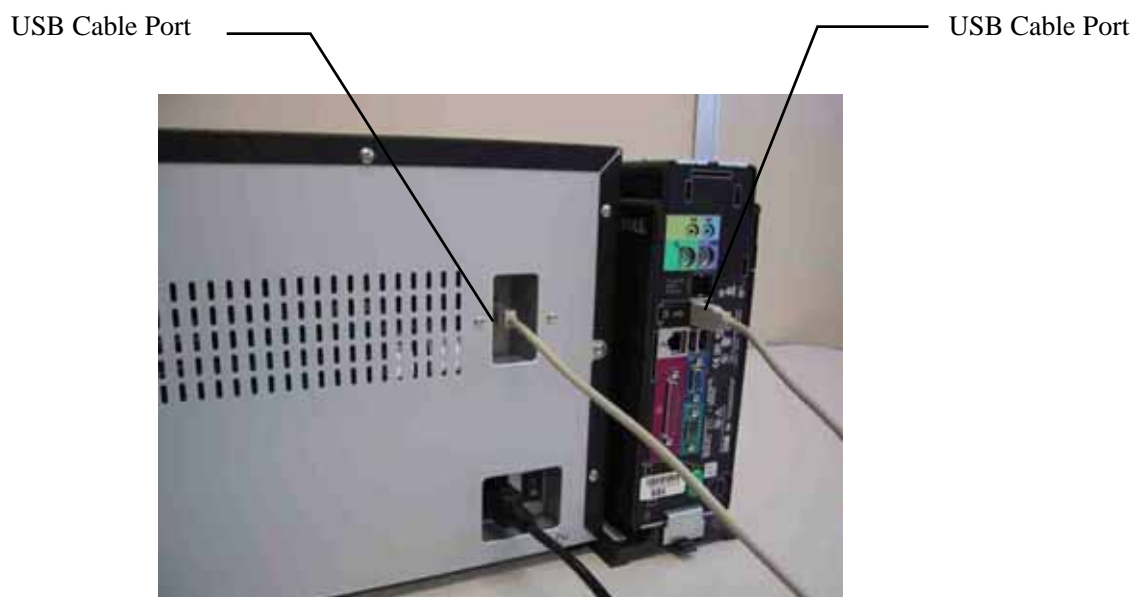


Caution

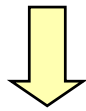
* Please use the power cable attached with the printer, and please be sure to ground the grounding terminal of a plug.

4. Connect the Host Computer (PC)

1. Please confirm that the power switch of the printer and PC should be OFF.
2. Connects the printer and PC by USB cable.



5. The way to set Paper Cut Off Box



In the Paper Cut Off Box, cut off of unnecessary pieces of paper are stacked.
Please remove those cut off whenever paper media is changed.
It's possible to have paper jam if the box is fully stacked.

* Easier way to mount the box is to push upper side of the box in the printer slightly.

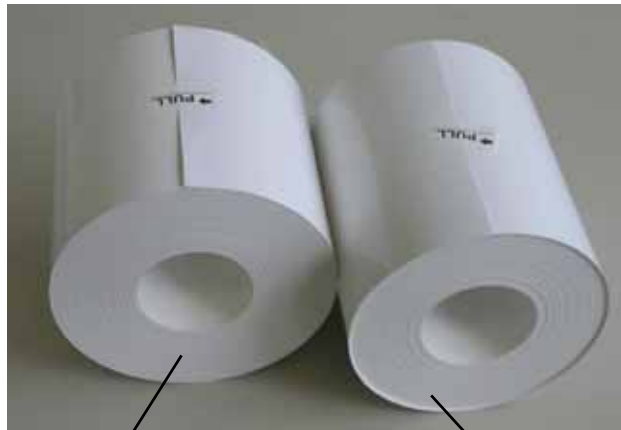


Caution

* Please pay attention not to insert your finger or anything in the cutter located in upper side when the cut off box is taken out, otherwise it's possible to injure your finger and/or to damage your proprietary.

6. Check of Paper and Ribbon

| Paper | | |
|-------|--------------------------|-----------------------------------|
| Type | L-Size, 2L-Size 127mm | Post Card, A5 Wide Size 152 mm |



L-Size
2L-Size

Post Card,
A5 Wide Size

| Ribbon | | |
|--------|--------------------------|-----------------------------------|
| Type | i-Media | |
| | L-Size, 2L-Size 134mm | Post Card, A5 Wide Size 159 mm |

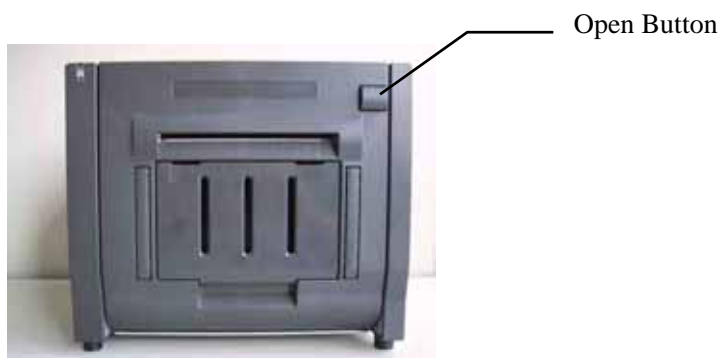
L-Size, 2L-Size

Post Card, A5 Wide Size



7. Paper and Ribbon Mounting

1. Opens front case C by pressing the open button.



2. Mounts paper on roll holder assy. For L-size and 2L-size, sets L-spacer first.

L-Size, 2L-Size



L-Spacer, Roll Holder Assy



Post Card, A5 Wide Size



Roll Holder Assy

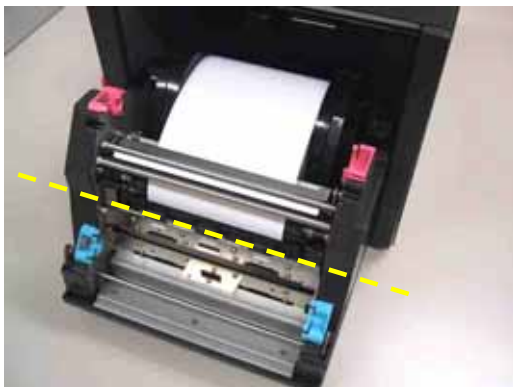
* Please mount paper on roll holder Assy by the same way with for L-Size and 2L-Size.

* Please insert firmly so as not to be any space between side of roll and L-spacer.

* For setting the L-spacer, please fit the flat side of the L-spacer with roll side or inside.



3. Installs paper in the printer.



Fits paper to the position of each paper size,
and inserts it to arrow direction until buzzer
makes 'Pi-Pi' sound.
(Around the position to dotted line of photo)

LED indicator shall change from Red flicker
to Blue & Red flicking.

*** Please pay attention not to feed paper with
deviation nor slanting.**

* Please refer [Note] of 5. of next page too.

L-Size, 2L-Size



Post Card, A5 Wide Size



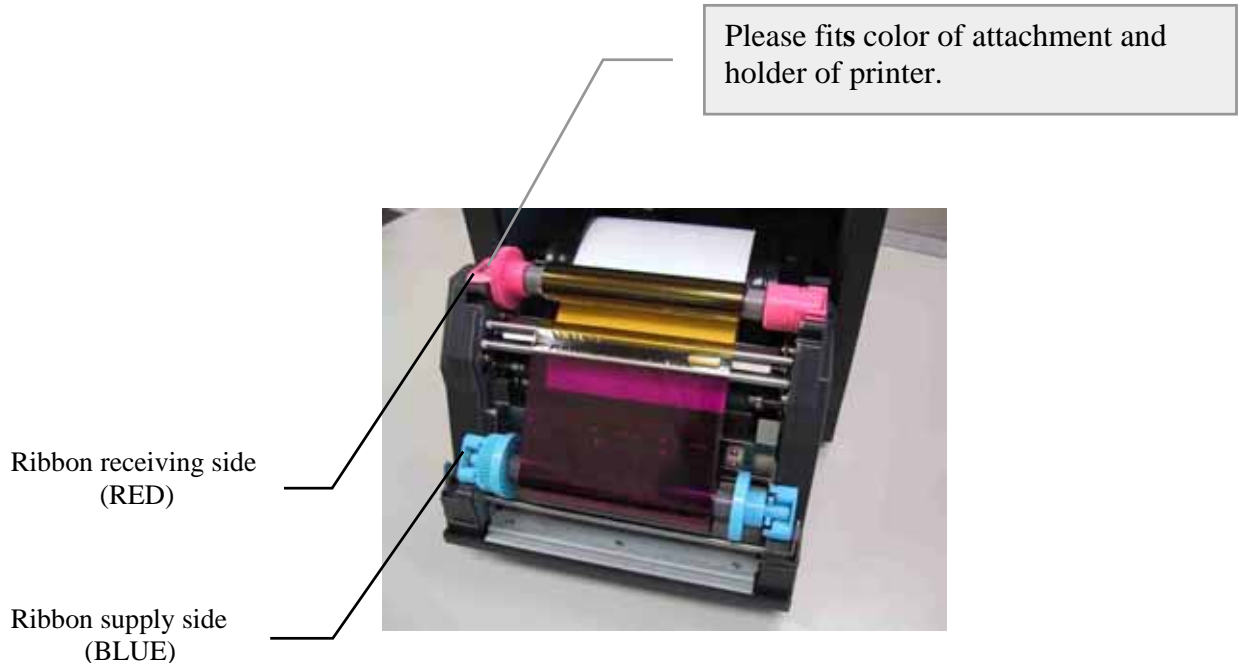
Please insert paper by referring to width guide shown below.
It's recommended to insert paper after removing paper loosing for easier setting.



4. Installs ribbon in the printer.

* By paying attention to front & back of ribbon, mount the ribbon core on each supply and receiving side as shown in below.

* Removes ribbon loosing by turning the ribbon attachment of receiving side approx. 5 times to the arrow direction.



Front side from the printer front is for ribbon supply, and backside is for ribbon receiver.

Winding direction of ribbon



5. Close the front case C.

* When the front case C is closed, paper initialize process shall be taken place.

* In case if power is OFF when paper is installed, paper initialize is not taken place.

Chapter 2 Trouble Shoot

1. Error Indication
2. If Paper is jammed
3. If Ribbon is cut out
4. If power was shut down during printing

1. Error Indication



| Status | LED Indication | Solution |
|------------------|----------------|------------------------------|
| Online | | Printer ready |
| Front Cover Open | | Please close front cover |
| | | Please set paper correctly 1 |
| Paper End | | Please set new paper 2 |
| Ribbon End | | Please set new ribbon 2 |

1 When paper is set at right position, buzzer sounds 'Pi-Pi'.

2 Please exchange both paper and ribbon same time together.

| | | |
|-------------------|--|---|
| Head Cooling Down | | Released automatically when cooled down |
| Paper Error | | Please set paper correctly again |
| Ribbon Error | | Please set ribbon correctly again |
| System Error | | Please switch off & on again 3 |

3 If System Error is not recovered, please contact with support center.

- For further details, please refer to User's Manual of the system.

2. If Paper is jammed

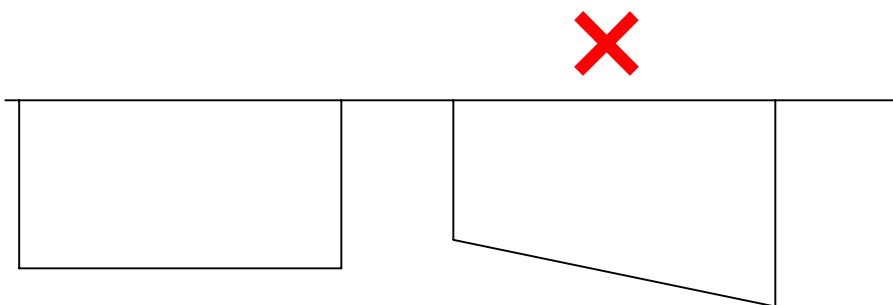
1. Please open the front case C by pressing the open button.



2. Please pull paper out, and cut damaged part straightly and clearly with correct angle, then insert again.



Paper edge cutting



If paper edge is not cut correctly, trouble shall be occurred in quality, paper feed.

3. If Ribbon is cut out

1. Please open the front case C by pressing the open button.
2. Please remove paper of which print is interrupted by ribbon error from the printer.
3. Ties ribbon by cellophane tape.
4. Mount ribbon in the printer and turns ribbon several times until cellophane tape disappears.



Ties by cellophane tape

4. If power was shut down during printing

1. If power is shut down during printing, the front case C is locked to open .
2. Please power ON again and when LED shows Blue, opens the front case C. (Approx. 10 sec)
3. Paper of which print is interrupted shall be rest in the printer, and please pull it out and cut straightly and clearly, and set in correct position again.



Caution

* Please don't shut power down during printing without fail.

Chapter 3 After Care

1. Platen Roller Cleaning
2. Thermal Print Head Cleaning
3. Filter Cleaning

1. Platen Roller Cleaning

Please wipe off powder, garbage, adhesive agent, etc, which comes from ribbon and/or paper and adhering to the platen roller, by ethyl alcohol permeate soft cloth.

[Note]

Please do not use benzene, thinner or anything other than ethyl alcohol without fail, since it's possible to invade resin.



Please clean by turning the platen roller.



Caution

* Prior to cleaning, please power OFF the printer and unplug power cord without fail.

2. Thermal Print Head Cleaning

In case if defocused white line or quality loss is found in printed image, there is possibility of dirt of print head by powder, garbage, adhesive agent, etc, which comes from ribbon and/or paper and adhering to the print head.

In the case, please wipe the thermal print head surface by dry, 8000-grid polishing sheet approx. 5 times.

[Note]

Please do not use alcohol, benzene, thinner nor sandpaper without fail.



Caution

- * Prior to cleaning, please power OFF the printer and unplug power cord without fail. Otherwise, there is possibility to be injured by sudden head moving.
- * Temperature of the thermal print head just after printing is high. So, please wait sometimes for cooling the head temperature down.

3. Filter Cleaning

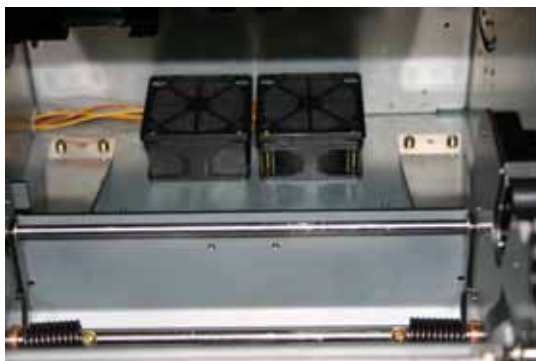
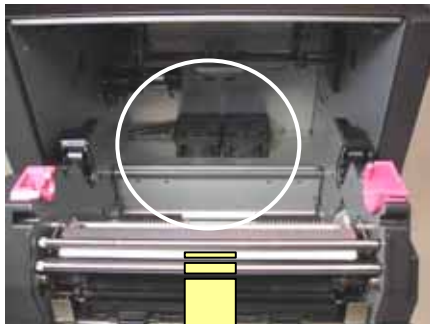
Please clean filter from time to time or periodically.

1. Please open the front case C by pressing the open button.
2. Removes the filter cover.
3. Use a brush or cleaner to remove dust and debris from the filter.
4. Reinstall the filter with the filter cover up to the cover is hooked completely.

[Note]

If the filter is very dirty, you may want to rinse it with clean water, but you must not reinstall the filter in the printer until it's thoroughly dry.

Otherwise, water shall give damage on the printer.



- * It's important to keep the filter be clean always.
- * In case if the filter is stopped up, temperature of printer inside becomes higher, and printing shall be suspended by showing Blue LED flicking.
- * In the case, printing shall be restarted automatically soon after temperature becomes down, but this influences on speed wrongly.
- * Similar situation may occurs when the print head is heated up by continuous high power such like by printing of many black images.



Caution

* Prior to cleaning, please power OFF the printer and unplug power cord without fail.

Appendix

1. Specification

| Item | | Specification |
|-----------------------|----------------------|---|
| Model | | C V |
| Print Technology | | Dye Sublimation |
| Resolution | | 334dpi(Paper Feed direction) x 600dpi (TPH width direction) |
| Gray Scale | | Yellow, Magenta, Cyan 256 steps each |
| Interface | | USB2.0 (Max. 480Mbps) |
| | | Buffer size for A5 Wide Size x 2 images |
| Paper | | Roll paper, Coreless |
| Ribbon | | YMC + Overcoat |
| General Specification | Dimensions | 322W x 350D x 276H (mm) |
| | Weight | 20Kg (Printer hardware only) |
| | Power | AC100V – 240V 50/60Hz |
| | Consumption | Max. 400VA |
| | Operation conditions | Temperature 5 degree C to 35 degree C with natural air |
| | | Humidity 35 to 80% with no moisture nor dew |
| | Stock conditions | Temperature –20 degree C to 60 degree C |
| | | Humidity 5 to 85% with no moisture nor dew |
| Accessories | | Power cable, Printer driver CD, User’s manual |

| Media | Items / Paper Type | | L-Size | Post Card | 2L-Size | A5 Wide |
|-------|--------------------|-------------|-------------|--------------|-----------|-----------|
| | Paper Size | mm | 127 x 89 | 152 x 101 | 127 x 178 | 152 x 229 |
| | Print Area | mm | 130 x 92 | 155 x 105 | 130 x 181 | 155 x 232 |
| | Print Speed | Sec / Sheet | Approx. 9.8 | Approx. 11.3 | - | - |
| | Paper Capacity | Sheet | 450 | 400 | 230 | 180 |