# LCSJ-1800

## User Manual

## V1.4

Thank you for buying LCSJ-1800
• To make sure your operation is right and safe, please read this manual carefully before use.

• Unauthorized copying or disseminating of this manual is illegal.
• The content of this manual including the product's parameters are subject to change without notice.

• Every effort has been made to ensure the accuracy of this manual, so if you find anything wrong or being omitted, please contact us immediately, and we will be very appreciate!

• Our company shall not be liable for any errors or for direct or indirect incidental or consequential damages when use this printer.

• Our Company shall not be liable for any errors or for direct or indirect incidental or consequential damages in connection with the error operation.

LCSJ-1800 Corporation

Statement
This product is A-class printer which may result in radio-interference, when it happens, please take measures.

# Tables of contents

# Precaution

Recommendation for computer configuration

Hardware:
CPU: 2.50GHZ
Memory: 2.00GB
Mother board: P321-ES3G
Chipset: INTEL

Software:
WINXP-SP2
MICROSOFT WINDOWS XP PROFESSIONAL

# Safety precaution

## Marks of ⚠ warning and ⚠ caution

| ⚠**WARNING** | to warn the user that deformity, serious injuries or death may caused if any wrong operation. |
|---|---|
| ⚠**CAUTION** | to warn the user that injuries my caused or things may be damaged if any wrong operation.<br><br>＊Damage means to damage your furnishing, decoration, animals, pets or others. |

## Various marks

| | |
|---|---|
| ⚡ | △ to remind user of important notes or warnings. Its concrete meaning depends on the figure in it. The mark on the left means: danger of electric shock. |
| 🚫 | ⊘ means never do such things, its concrete meaning depends on the figure in it, the mark on the left means never to disassemble. |
| 🔌 | ● to remind user of things that must to be done. Its concrete meaning depends on the figure in it, the mark on the left means plug must be pulled out from the socket. |

## ⚠ WARNING

| | |
|---|---|
| Can not be disassembled,repaired or refitted.<br><br>Otherwise it may cause fire or other damage. | Please use the power with the Rated value which labeled on the printer. |
| Earthing by using groundwire.<br><br>Otherwise electric shock may be caused. | When it is in error state, do not use any other power supply which may cause fire or electric shock. |
| Please use the power cord supplied by us only. If using other nonstandard power cord may cause fire or electric shock. | |

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# ⚠WARNING

🚫 Do not use this printer under the following environment: open fires, electric spark, static electricity, high temperature or any place close to heat. Otherwise it may cause fire.

🚫 Do not put cartridge, cleaning solution or waste inks under the following environment: close to open fires, high temperature, any place close to heat, or close to bleacher, chemicals or inflammable and explosive materials, otherwise it may cause fire.

# ⚠CAUTION

❗ Keep your working environment well ventilated. Otherwise it may affect your health or cause fire.

🚫 Do not drop any ink or cleaning solution on your skin or eyes. Do not eat, drink, smell the ink and cleaning solution. All these behavior are harmful to your health.

❗ If the ink or cleaning solution is splashed on your eyes, wash your eyes immediately with plenty of water at least 15 minutes and get medical attention.

❗ If ink or cleaning solution is splashed on your skin, please wash your skin with water or soap immediately and get medical attention.

❗ Get medical attention immediately if you eat any ink or cleaning solution.

❗ If you feel bad while smell the ink or solution, please go to the place where is well ventilated. If feel dizzy or blurred, please get medical attention immediately.
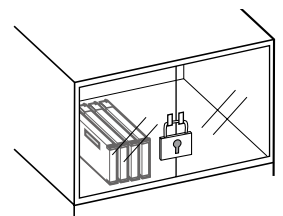
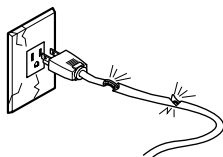❗ Collect the waste ink via our waste-ink-collecting container.

The fire or illness may caused if waste ink leak or evaporate.
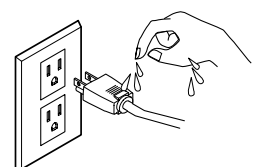
❗ Keep the cartridge away from child.

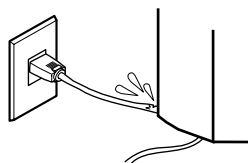🚫 Do not use broken or loose plug or power supply which may cause fire or electric shock.

🚫 Do not pull in or pull out the plug while your hands are wet. Otherwise fire or electric shock may cause.
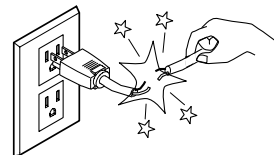
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# ⚠️CAUTION

⊘ Do not damage the power cord otherwise fire or electric shock may occur.

❗ When pull out the plug please seize hold of the plug not the power cord, otherwise plug might be damaged and fire or electric shock may occur.

⊘ Keep it away from liquid, metal or inflammable materials as all these things might cause fire.
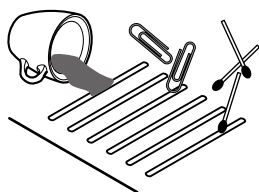
❗ Suggest at least 4 people should take part in the process of tearing-off package, assembling or moving the printer. Otherwise the printer will fell off or broken.

❗ Install it on the flat floor to avoid roll falling off or damage.
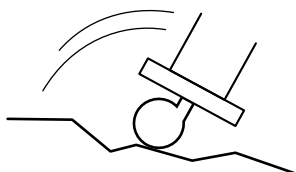
❗ Fix this printer on its stand via connecting nut to avoid roll falling off or damage.
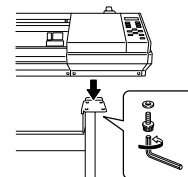
⊘ When put the printer on its stand please mind your finger.
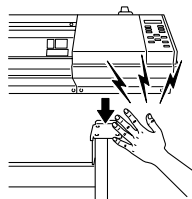
❗ Please untangle the lock of castor first when you move printer, otherwise the printer will fall down.

FREE

LOCK
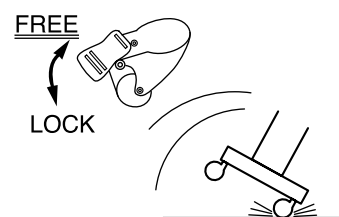
❗ Roll should be positioned on its predetermined place. Otherwise the roll may fall off.
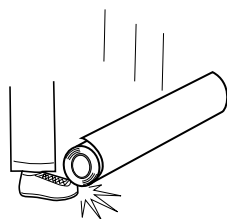
⊘ Do not put your hand in printer during printer.
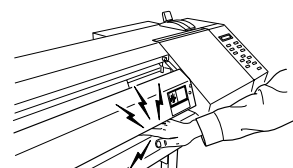
# ⚠**CAUTION**

🚫 Do not touch the knife.



❗ Switch off the power first and then change the knife.

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# Labels on printer

All the labels are on the surface.
Below pictures will tell you their position and contents.

Cartridge
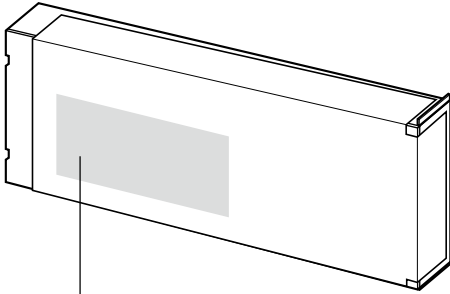
Keep the ink and waste ink away
from open flame.

Ink and waste ink are poisonous,so
please keep them away from human
body and use them under the
environment of well ventilated.

Do not disassemble the cartridge.
Keep cartridge away from child.
Keep the cartridge under a suitable temperature,
neither too high nor too low.
Only support the water-based inkjet printer.
Do not use it on the other printer which is not the
water based type.

Inner of front cover
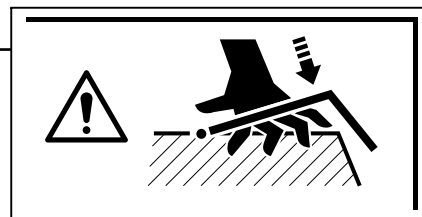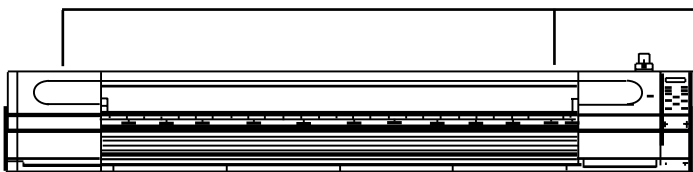
Mind your finger when close cover.

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The carriage will immediately stop when you open the cover during printing.For other situation, please press "PAUSE" if you want to stop print.
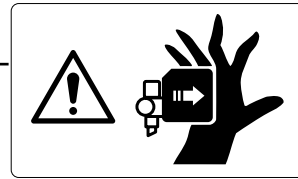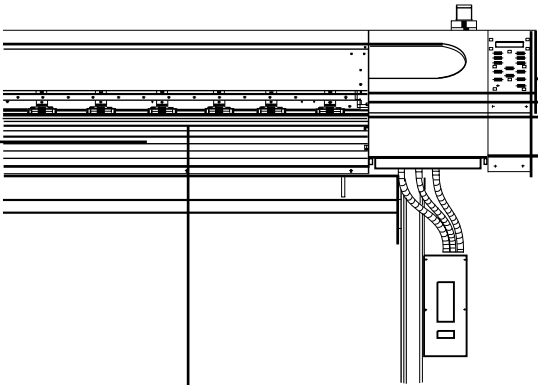
Do not put your hand in printer during printer.

Keep the ink and waste ink away from open flame.

Ink and waste ink are poisonous, so please keep them away from human body and use them under the environment of well ventilated.
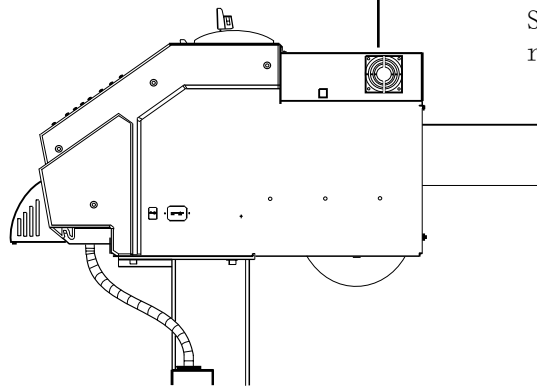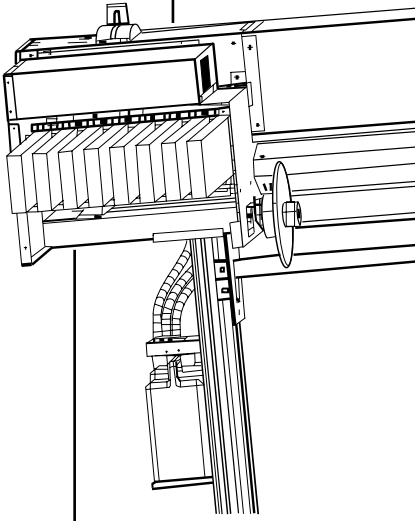
Label of product name, model and rating value. Supplying with rating power.

Do not insert other kinds of cartridge.

Other marks:

Notice:offer you the info that to prevent printer from errors or guide you of right operation.

:Offer you the skills and suggestions during operation.

# Package contents

## 1 Accessories

Check your accessories
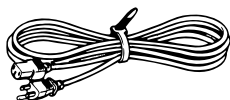
Power cord: 1
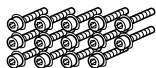
Nuts (big): several
(To assemble stand)

Nuts (small): several
(To assemble stand)

Washer: several
(To assemble stand)
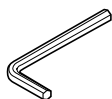
Hexagon wrench: 1
(To assemble stand)
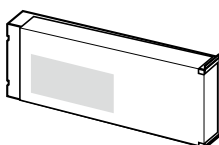
Cartridge: 8

Stand: 1
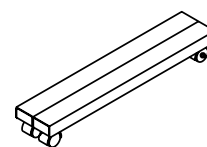
Caster: 2
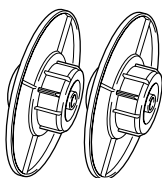
Paper guide roller: 2
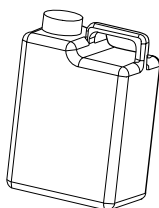
waste-ink-collecting box: 1
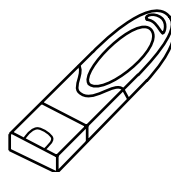
Encryption Lock: 1

RIPsoftware: 1
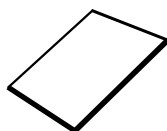
User manual: 1
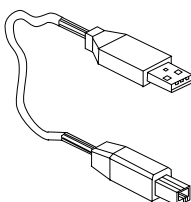
USB cable: 1

CD

# 2 Printer assembling

## ⚠WARNING

❗ Suggest at least 4 people should take part in the process of tearing-off package, assembling or moving the printer. Otherwise the printer will fell off or broken.

🚫 Do not put your hand in printer during printer.
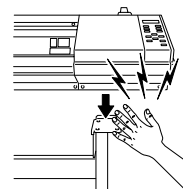
❗ Fix this printer on its stand via connecting nut to avoid roll falling off or damage.
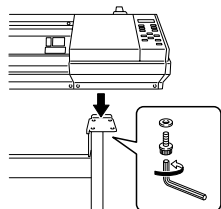
NOTICE  Do not hole the positions which pointed in the right picture as it might cause damage to printer.

Left                                    Right
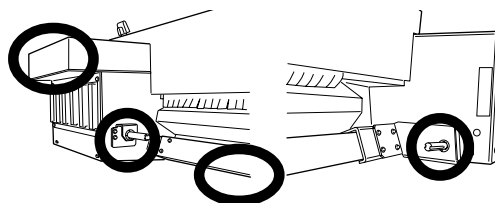
Assemble the stand first and then install the printer on it.
The printer size is as below after completely assembled.

    2500mm[W]x758mm[D]x1241mm[H]  (98-7/16in.[W]x29-7/8in.[D]x48-7/8in.[H])

1  Invert the stand and
   install the casters.

   Tighten the screws up.
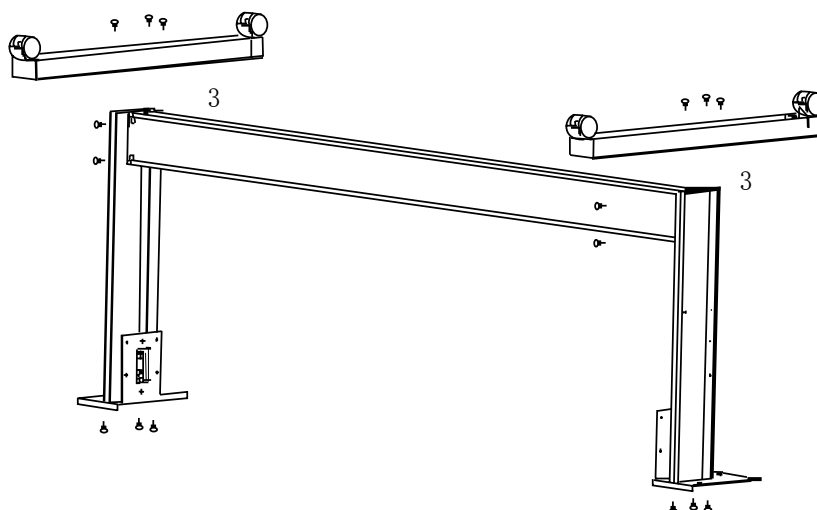
**2**　After stand installation finished, put the printer on it.
Shown as the following figure.



• Do not block the plug of waste ink box which is on the right side of printer.

Front

• Align the rear edge of printer with the fixed device of stand.
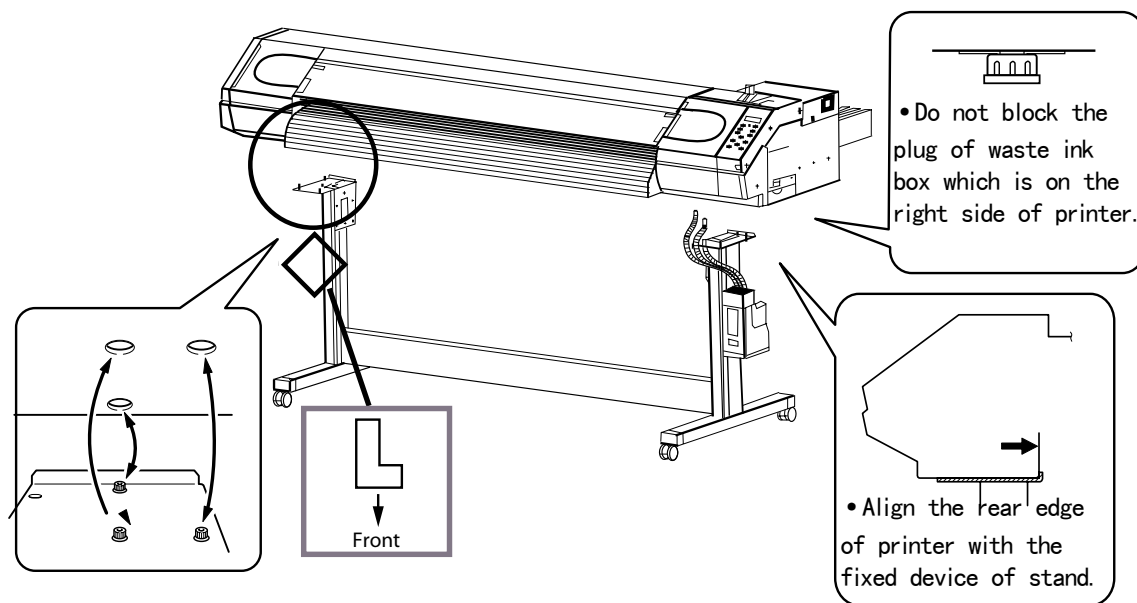
**3**　Fixed the printer on its stand with big screws.



3 screws in each side

Washer

screw (big)
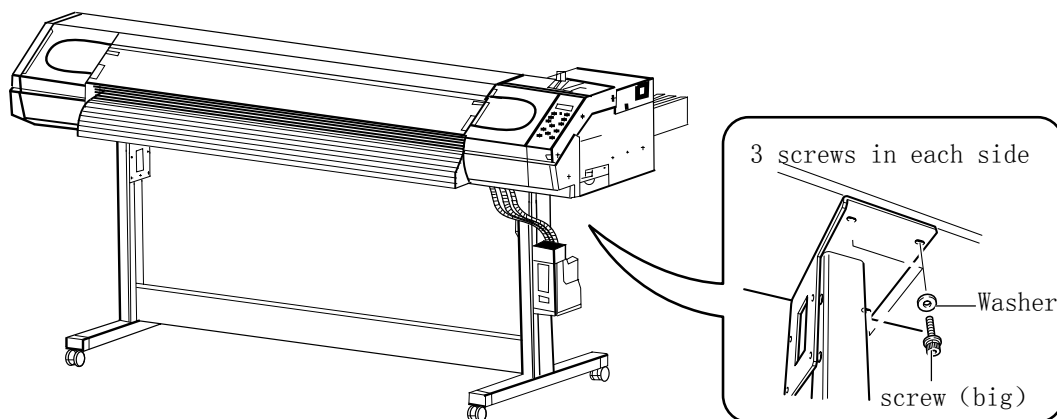
**4**　Install the waste ink collecting box as the following figure.



Fix the waste-ink-collecting box on the stand with the small screws.
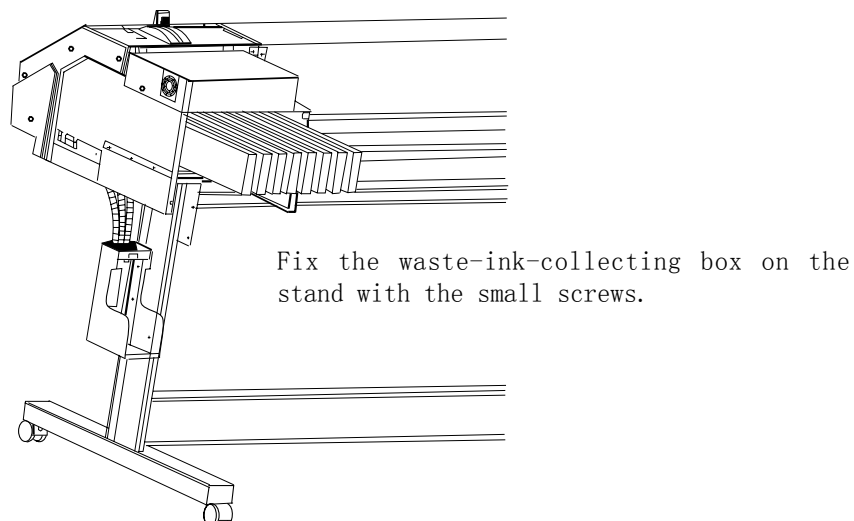
**5**  Fix the paper guide roller with its clip.
The roller direction is depends on paper
roll diameter.

Paper guide roller

Fixer

2 in. 3 in.

1)

1)

The left side of
printer's back.

Aimed at
the groove

The right side of
printer's back

clip

2)

2)
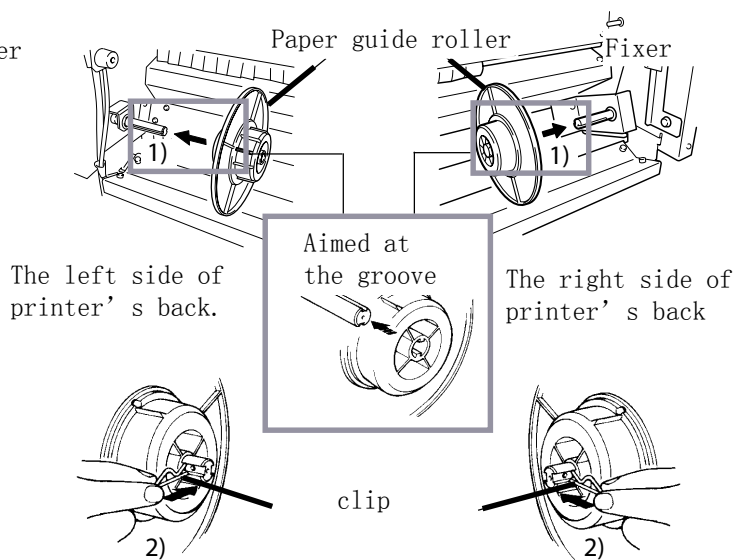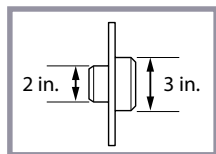
**6**  Install the waste ink
collecting box on the lower
right side of printer.
Directly put this box in the
waste ink collecting device.
Do not take it off except
move printer or pour the
waste ink.
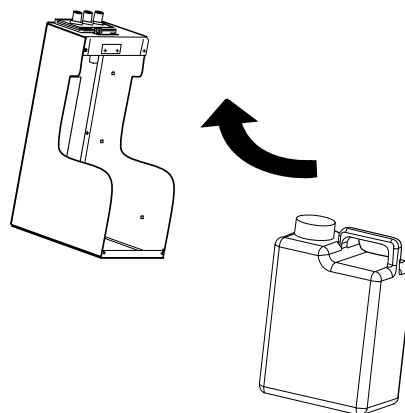
We offer you a spare waste ink collecting box to store waste ink temporarily.

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# 3 Assemblage precaution

## ⚠CAUTION

**!** Suggest at least 4 people should take part in the process of tearing-off package, assembling or moving the printer. Otherwise the printer will fell off or broken.

**!** Install it on the flat floor to avoid roll falling off or damage.
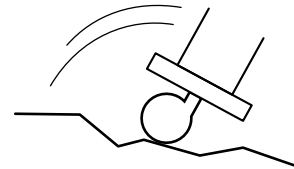


| NOTICE | Make sure the waste ink collecting box has been fixed before power on. |

Use it under the following environment:
- **Temperature**:15 to 35℃(59 to 98℉),Humidity:35 to 80%(non-condensing)

Never put the printer under such condition.Never put the printer under such condition

- **Temperature**:5 to 40℃(41 to 104℉),Humidity:20 to 80%(non-condensing)

Never put printer on the following place:
- Uneven ground;
- Place with electromagnetic interference;
- Place of dust;
- Place where is not well ventilated;
- Place where is shaking;
- Place of strong light or of direct sunlight.

Do not stand on the printer support or it will be damaged.

Do not press printer or it will be damaged.

The required assembling room:

3500mm[W]x2000mm[D]x1700mm[H]
(137-13/16in.[W]x78-3/4in.[D]x66-15/16in.[H])

# ⚠WARNING

🚫 Please use the power with the Rated value which labeled on the printer.

⏚ Earthing by using groundwire, otherwise electric shock may be caused.

❗ Please use the power cord supplied by us only. If using other nonstandard power cord my cause fire or electric shock.

NOTICE   Please shut off the power of computer and printer and then connect them.

Connect all the cables and make sure it will not loose.

Put all the cables away and make sure they will not trip the people.

Side view



USB interface

Power supply interface

Power supply interface

Socket

Power cord

USB interface
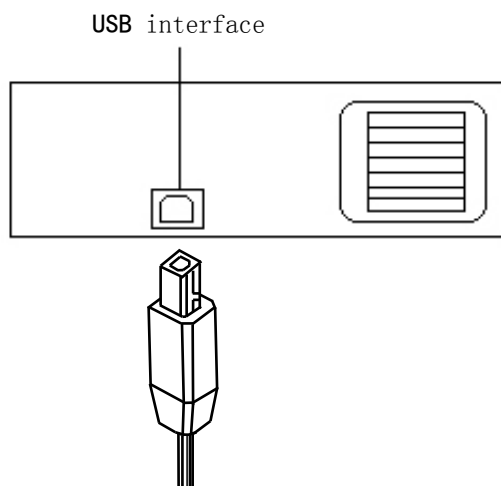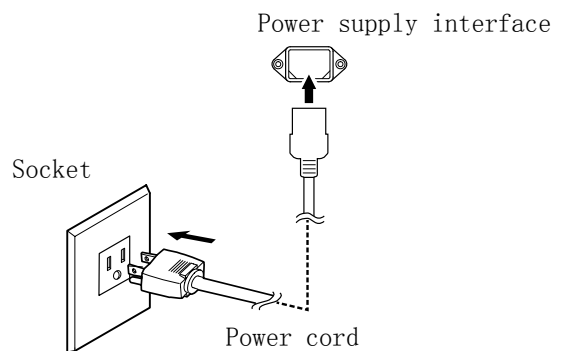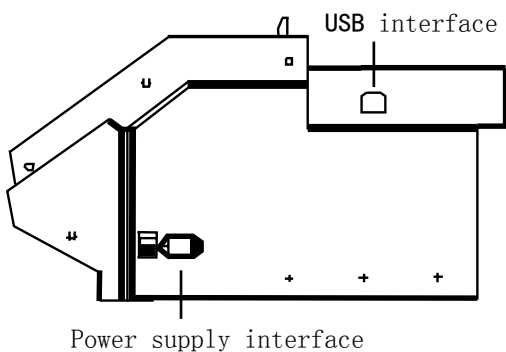
# 4 Cartridge installation

## ⚠WARNING

🚫 Keep it away from liquid, metal or inflammable materials as all these things might cause fire. The same with printed paper which is not dry.

🚫 Do not put cartridge, cleaning solution or waste inks under the following environment: close to open fires, hight temperature, any place close to heat, or close to bleacher, chemicals or inflammable and explosive materials, otherwise it may cause fire.

## ⚠CAUTION

❗ Keep your working environment well ventilated. Otherwise it may affect your health or cause fire.

🚫 Do not drop any ink or cleaning solution on your skin or eyes. Do not eat, drink, smell the ink and cleaning solution. All these behavior are harmful to your health.

❗ Keep the cartridge away from child.

| NOTICE | |
|---|---|
| | Only use the ink supplied by us! Do not try to fill ink into the empty cartridge. |
| | Except for transport, please do not take off the cartridge. |
| | Do not tear off cartridge. |
| | The best usage and store temperature is 15~25℃, avoid direct sunlight. If printing under the environment that is below 5℃ or above 30℃, the print quality will be reduced. |
| | If ink stored in the place where is too cold or too hot for a long time, please place it at ordinary temperature for at least 24 hours until it is in the ordinary temperature. Do not try to heat it or cooling it otherwise its print quality will be reduced. |
| | Please wear prevention tools like plastic gloves, preventional glasses when doing any repairs which should touching inks. |
| | Keep inks away from child. Waste ink should be handled properly otherwise it might cause environment pollution or damage to health. |
| | Any shake might damage the cartridge, so do not use it again. |
| | Please handle with care when install or take off the cartridge. |

📝 Do not take the cartridge off until the inks used up. Because when cartridge took off from printer, the air may come into the ink pipe, so print quality will be reduced.

1    Turn on the main switch which is on the back of printer.

2    Turn on the switch of printer.

3    Please make sure the waste ink collecting
box has been assembled, and press ENTER.

4    Cleaning solution needed when you install or reinstall cartridge.

Cartridge slot



| K | K | C | C | Y | Y | M | M |
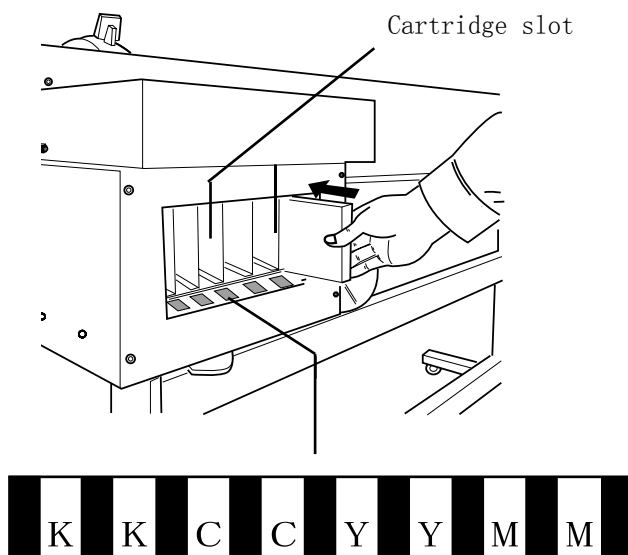
Insert cleaning solution in the
corresponding color shown in the
figure.

Cartridge slot

Ink

Insert cartridge in the corresponding
color that shown in the cartridge slot.

| K | K | C | C | Y | Y | M | M |

Black　Black　Cyan　Cyan　Yellow　Yellow　Magenta　Magenta
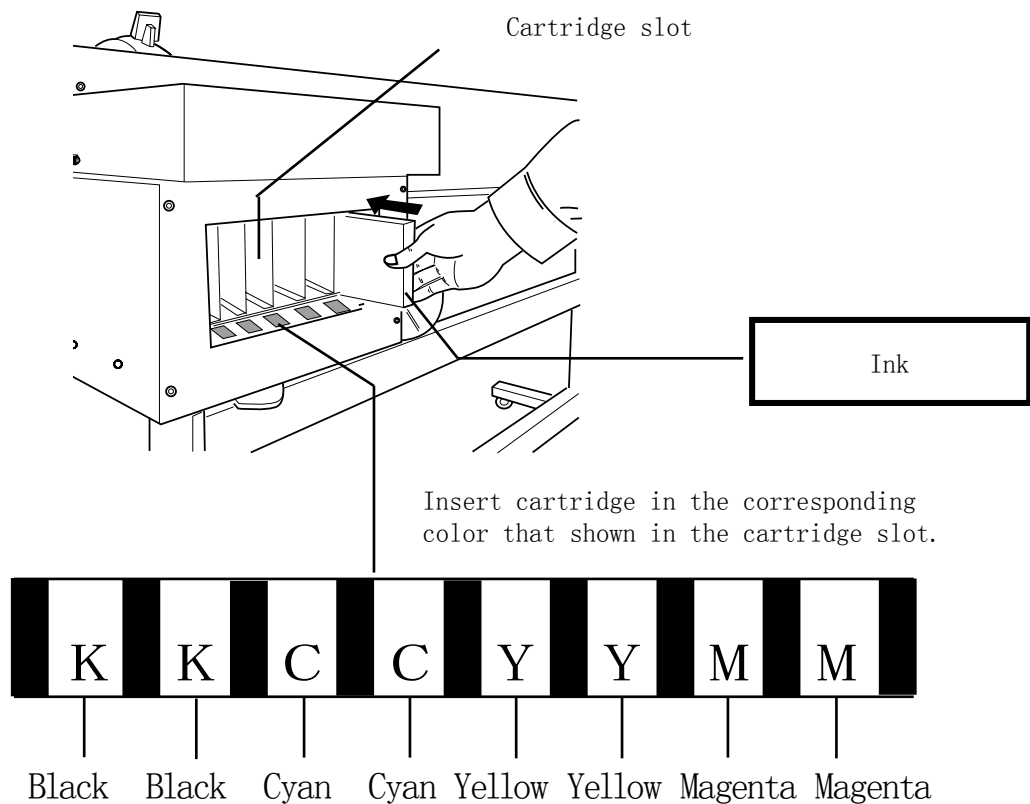
**5** Press CELANING button on the panel and then press ▼ ,
then it says: ink filling start. Press ENTER it will
start filling.

```
HEAD CLEANING
INKFILL START    ⏎ ▲▼
```

**6** Press ENTER again to stop filling.

```
HEAD CLEANING
INKFILL STOP     ⏎ ▲▼
```

**7** Change a new waste ink collecting box after ink filling
finished. Then press ENTER, the whole process is done.

# Parts name

## Front view

Do not touch guide way or put your hand into the right box except adjusting head height. Do not touch the area which is shown on the left figure, it might make your hands dirty with ink or make the print quality reduced.

1 Guide way (guide way of carriage, keep it clean and remember to lubricate it regularly)
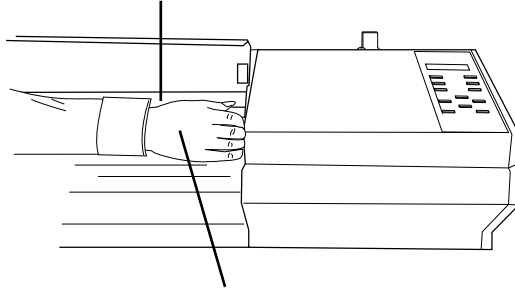


Do not put your hand into it

2 Front cover
The carriage will immediately stop when you open the cover during printing.

3 Paper loading rod



4
Operation panel
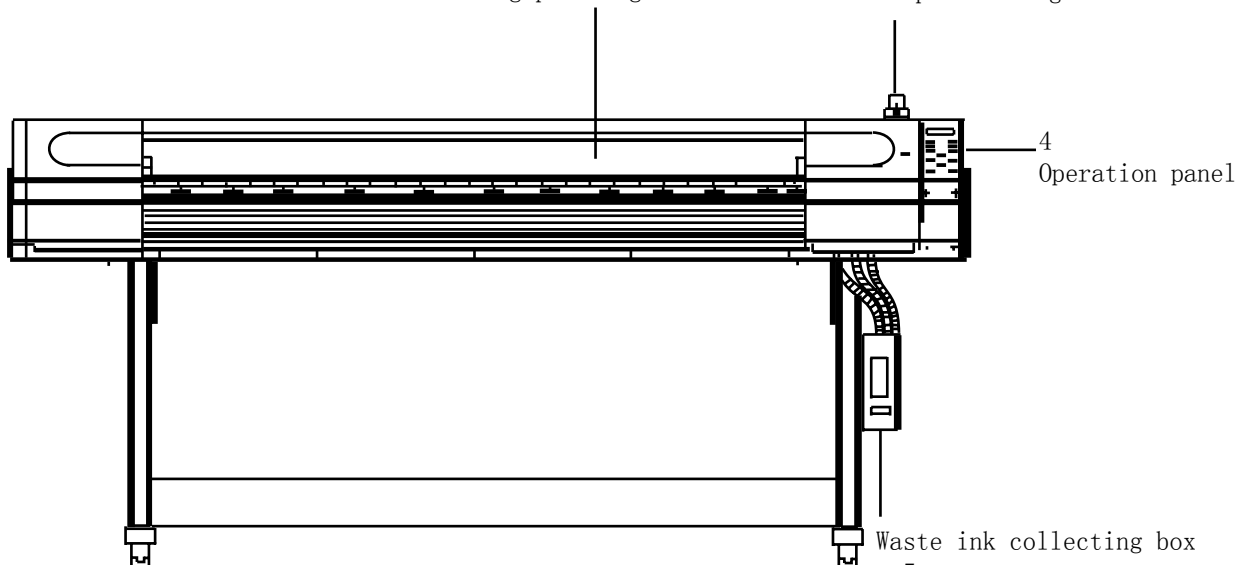
Waste ink collecting box
5
(collecting waste ink when cleaning)

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# Rear view

6 USB interface (For connecting PC, and please protect it from dust for daily use)

7 Main switch

8 Power supply interface

9 Carriage
Carriage will stop in the cover when not print

13 Cutting washer (To cut paper and please keep it clean)

(To press paper and do not move it during print)
10 Pressure plate

15 Guide line

14 Reflection bar
(To detect paper automatically and please keep it clean and only clean it by soft cloth)

12 Paper-pressing wheel (To press paper and please keep it clean)

11 Grinding wheel
(To feed paper and please keep it clean)

Notice: if there is abnormal circumstances like abnormal noise, please contact your local agent or log-in our company website for consultation. Do not try to handle it by yourself or you must suffer the consequences.

## Operation panel

Display screen:
display menu and
information.

Key of "print
quality"                    PRINT QUALITY          CANCEL          Key of "cancel"

Key of cleaning"            CLEANING               PAUSE           Key of "pause"

Key of "Sheet cut"          SHEET CUT              BASE POINT      Key of "base point"

                                                                  Direction keys
                                                                  ([▲][▼][◄][►])

Key of "menu"               MENU                   ENTER           Key of "enter"

Power light
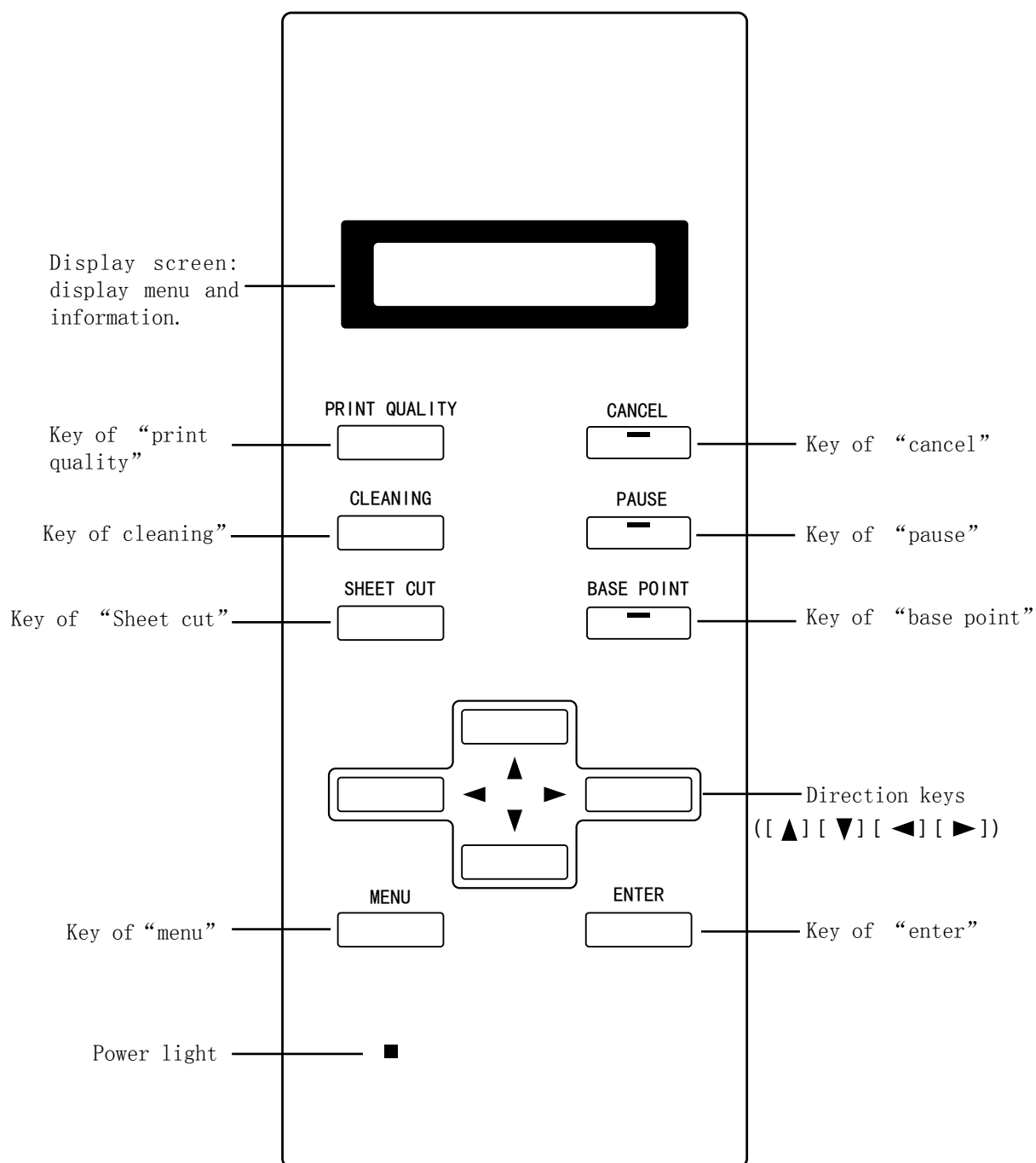
## Preparation for operation

Open the printer the display screen will show the following figure:

```
            READY
  BP      0mm     BI-DIR
```

Base point | Value of base point | Bidirectional print
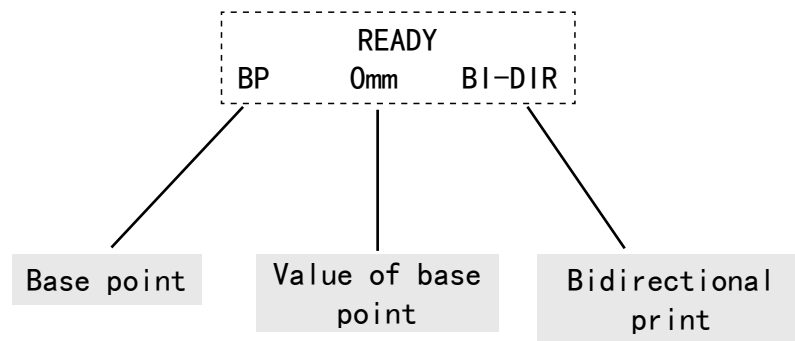
## Setting for start point

NOTICE  Setting the position of start point first before print. Then lock carriage's position by pressing ◄ and ► key, and press BASE POINT to set the start point of carriage, this start point's coordinate will be shown on the screen.
The carriage moving scope can not exceed the paper width if the paper is not transparent.
If the paper is transparent the carriage moving scope can reach as much as 1.5 meter.

Set the carriage position by pressing ◄ and ► key.

Then press BASE POINT to set the start point of carriage.

Left key      Right key

◄    ►

BASE POINT

Press ENTER and carriage will back to its original position automatically.

## Setting for base point

Print direction
BI_DIRECTION (default) :
Bidirectional print
Print head will print whether it moves to right or to left.
Print speed is faster than unidirectional print.

UNI_DIRECTION:
Unidirectional print
Print head will print only when it moves from right to left.
Print quality is better than bidirectional print.

ECLOSION TYPE
ECLOSION NONE
No eclosion

ECLOSION TYPE1
Eclosion type 1
Bottom up at the boundary of eclosion
This eclosion is gradually changed

ECLOSION TYPE 2
Eclosion type 2
The eclosion area is of a crest shape.
Bottom up at the boundary of eclosion.
This eclosion is gradually changed

PICSPACE
PICSPACE
Picture space
Set the distance between picture and paper

**1.** Press the key of "PRINT QUALITY".

PRINT QUALITY
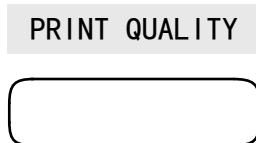
**2.** Choose the print direction via ◀ or ▶, and confirm it by pressing ENTER.

PRINT QUALITY
BI_DIRECTION   ▶♦
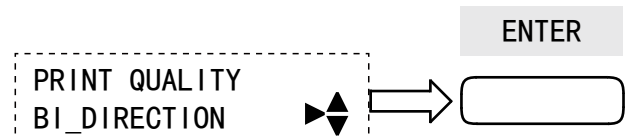
ENTER

**3.** Enter the ECLOSION TYPE interface by pressing ▼.
Choose eclosion type via ◀ or ▶ , and confirm it by pressing ENTER.

PRINT QUALITY
ECLOSION NONE   ▶♦
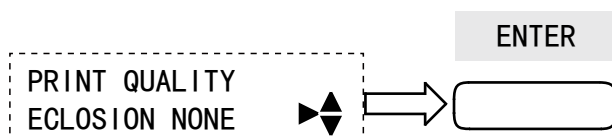
ENTER

**4.** Press ▼ to enter the PICSPACE interface.
Set picture space via ◀ or ▶, and confirm it by pressing ENTER.

PRINT QUALITY
PICSPACE ◀0mm▶   ▶♦
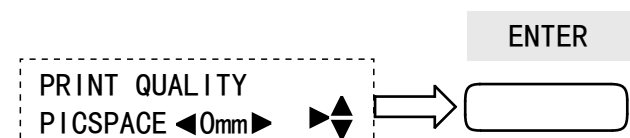
ENTER

## Printhead cleaning

| Start to clean | Test print | Ink filling |
|---|---|---|
| START | TEST PRINT | INKFILL START |
| Start to clean | To test print status | Start to fill ink |
| | | INKFILL STOP |
| | | Stop ink filling |

**1.** Enter head cleaning interface by pressing HEAD CLEANING.
To choose "START " "TEST PRINT" or "INKFIL START" via ◄ or ► and then confirm it by ENTER.

```
HEAD CLEANING          ↵▲    Back to the parent
START                    ▼    menu by pressing ◄
```

ENTER

```
HEAD CLEANING
WORKING         10%
```

10% means the progress of cleaning.

**2.** Enter test print interface by pressing ▼.

```
HEAD CLEANING              Choose B and C via ◄
TEST PRINT  B►  ↵▲         or ►, and go back via
                  ▼         ◄.
```
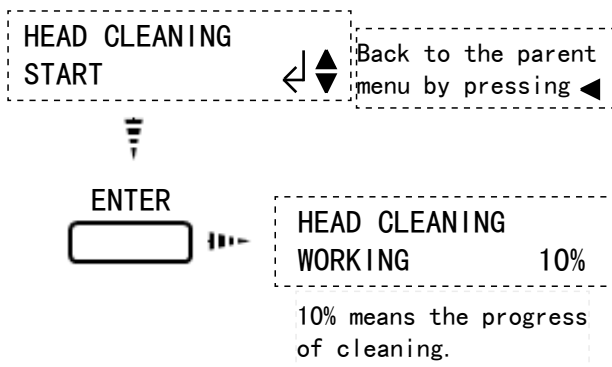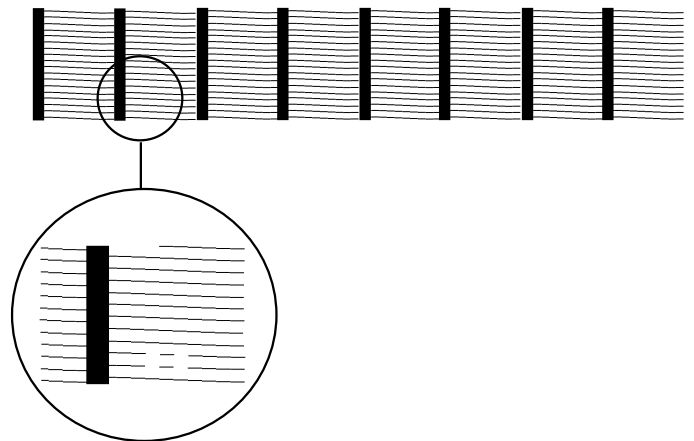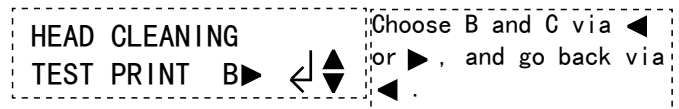


Please clean the head if the print quality is not good.

**3.** Enter test print interface by pressing ▼.

```
HEAD CLEANING      ↵▲    ENTER    HEAD CLEANING      ↵▲
INKFILL START       ▼             INKFILL STOP        ▼
```

Fill ink automatically by pressing ENTER, and it will automatically stop when filling finished.
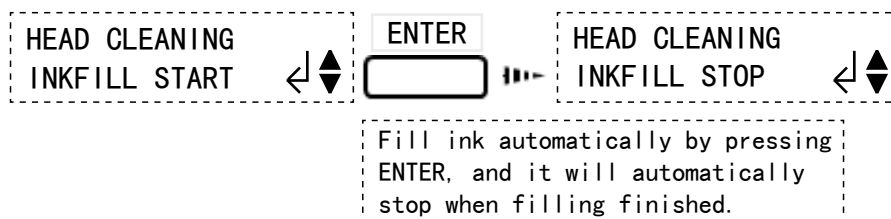
NOTICE:
　　When "STOP" displayed on the screen, you can stop filling by your hand.
　　But in this situation, the air may come into ink pipe, so this method is not recommended.

## Menu

1. Set print paper and print direction before print and make alignment via test print. Press "PRINT QUALITY" on the panel and make its related settings.

> Print quality depends on print mode, please select the right print mode which can meet with your requirements.

Paper type
OPEN:
Transparent
Paper is transparent

OPAQUE:
Opaque
Paper is opaque

Auto sheet cutting
ENABLE:
Valid
This option means it can cut paper automatically.

UNABLE:
Invalid
This option means it can not cut paper automatically.

Head alignment
HORIZONTAL:
Horizontal alignment
Make alignment through print test.

VERTICAL:
Vertical alignment
Make alignment through print test

Bidirectional alignment
TEST PRINT:
Test print

ADJUST:
Adjust
Set the offset of bidirectional alignment

L-ADJ:
Light adjust
Adjust the offset of bidirectional adjustment, its unit is 1/8 of ADJUST.

ADJUST
PASSNUM:
PASS number
Set the value of pass number via ◀ and ▶.
TEST PRINT:
Test print

M-ADJUST:
Alignment
Set the value of alignment via ◀ and ▶.

1. Press MENU and enter into the menu interface.
Choose submenu via ▲ and ▼.

```
┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
  MENU              ▶▲
                     ▼
  SHEET TYPE
└ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
```

2. Press ▶ to enter the submenu of current menu, and choose the option under the submenu via ▶.

```
┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐  ┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
  SHEET TYPE              Choose "OPEN" or
                          "OPAQUE" via ▶, or
  OPEN  ▶OPAQUE           go back by pressing
└ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘  ENTER.
                          └ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
```

**3.** When entering BIDIRECTION submenu interface, to choose bidirectional alignment option via ▲ and ▼.

```
┌─────────────────────────────┐
│ BIDIRECTION                 │
│ TEST PRINT        ↵ ▲       │
│                     ▼       │
└─────────────────────────────┘
```

**4.** When entering CALIBRATION submenu interface, to choose equative option via ▲ and ▼.

```
┌─────────────────────────────┐
│ CALIBRATION          ▲      │
│ PASSNUM  ◄ 2 ►       ▼      │
└─────────────────────────────┘
```

```
┌──────────────────┐
│ To set the value │
│ via ◄ and ► , and│
│ return to the    │
│ previous menu by │
│ ENTER.           │
└──────────────────┘
```

**5.** Enter AUTO SHEET CUT submenu interface.
Display auto sheet cut options via ▲ and ▼.

```
┌─────────────────────────────┐
│ AUTO SHEET CUT              │
│ ENABLE ►UNABLE      ↵       │
└─────────────────────────────┘
```

**6.** Enter HEAD ADJUST submenu interface.
Display head adjust options via ▲ and ▼.

```
┌─────────────────────────────┐
│ HEAD ADJUST                 │
│ HORIZONTAL          ►▲      │
│                       ▼     │
└─────────────────────────────┘
```

**7.** Enter HORIZONTAL submenu interface.

```
┌─────────────────────────────┐
│ HORIZONTAL                  │
│ TEST PRINT  B►   ↵ ▲        │
│                    ▼        │
└─────────────────────────────┘
```

**8.** Enter VERTICAL submenu interface.

```
┌─────────────────────────────┐
│ VERTICAL                    │
│ TEST PRINT  B►   ↵ ▲        │
│                    ▼        │
└─────────────────────────────┘
```

2. You can make horizontal or vertical alignment during printing via ▲ and ▼ Horizontal adjust.

Horizontal adjust
ADJUST
Adjust
Make its value via ▲ and ▼.

Vertical adjust
ADJUST
Adjust
Make its value via ▲ and ▼.

**1.** Enter menu interface by pressing MENU.
Make option between horizontal and vertical adjust via ▲ and ▼.
Then set its value via ◄ or ►, and confirm the value via ENTER.

```
┌─────────────────────────────┐
│ MENU─HORZ                   │
│ ADJUST  ◄ +0 ►   ↵ ▲        │
│                    ▼        │
└─────────────────────────────┘
```

**2.** Shift to vertical adjust via ▲ and ▼.
Then set its value via ◄ or ► , and confirm the value via ENTER.

```
┌─────────────────────────────┐
│ MENU─VERT                   │
│ ADJUST  ◄ +0 ►   ↵ ▲        │
│                    ▼        │
└─────────────────────────────┘
```

## Sheet cut

Cut sheet via SHEET CUT key.

SHEET CUT
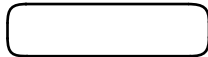
Only make the command at
one time and machine will
cut sheet automatically.

Cut sheet from here

Position of knife

Print position

Print start line
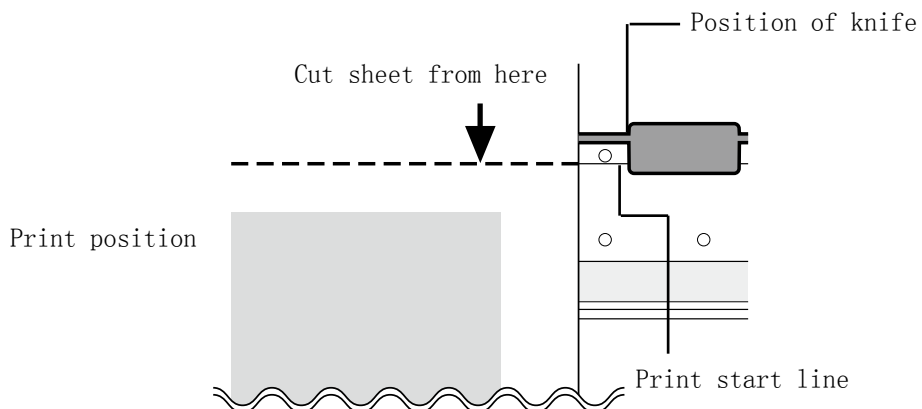
NOTICE:
        If AUTO SHEET CUT command is invalid, machine will not cut sheet even though you make sheet cut command through computer.

## Pause print

NOTICE  The carriage will immediately stop when you open the cover during printing. And
        machine will not print normally no matter you close the cover or not.
        Anytime when you want to stop print , please press "PAUSE".
        If you pause print, then the print quality will be different compared to the
        original one. So avoid pausing print.

Press PAUSE key
to pause print.

Return to print by
pressing PAUSE key.

PAUSE
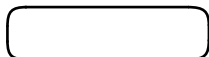
PAUSE
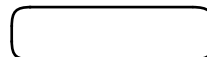
## Cancellation

NOTICE Press "CANCEL" to cancel print command during print, and screen will display
"READY" until the carriage stop.
When printer is in error status, press this key then printer will enter in READY
state.


When printing,press CANCEL
to stop.

When error,press CANCEL to be in
ready status.


CANCEL

CANCEL

## Print head alignment

[Head alignment]
Doing head alignment to guarantee the high print quality.
Strips will appear during print if head alignment is not done, and print precision will also be reduced.
USB cable should insert in back of printer not the front.

**1** Take off I/S cover.



I/S COVER

**2** Take off carriage cover.



CARRIAGE COVER
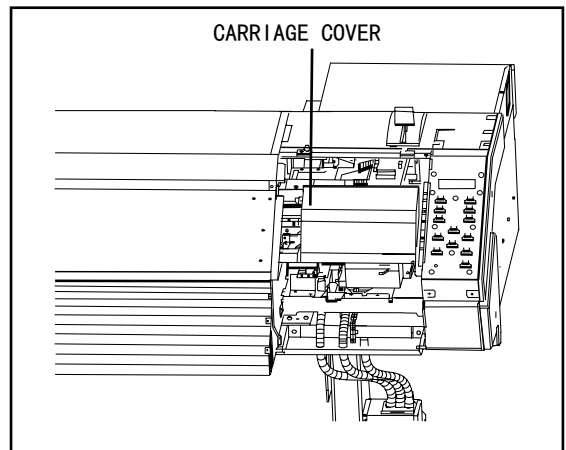
**3** Adjust the scallop regulating blocks of both side of printer, to level the print head with platform.
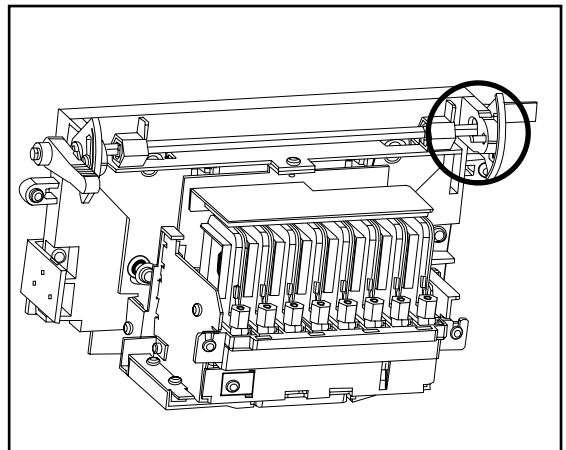
| 4 | Loosen head fixing screw, move head support to adjust print head's positon. |



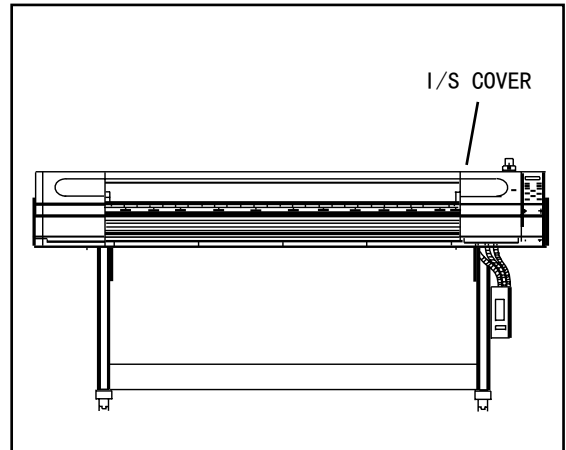| 5 | Move regulating rod to adjust print head to a suitable print height, the highest is 2.6mm while the lowest is 1.6mm. |
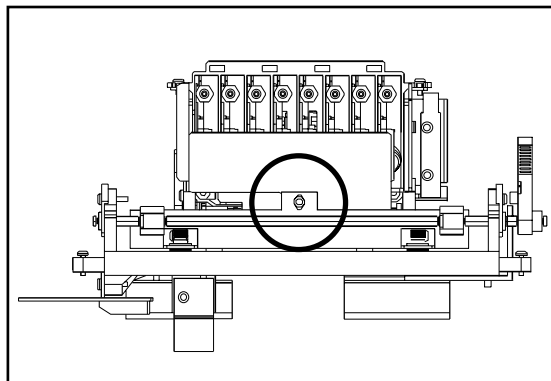
Adjusting handle
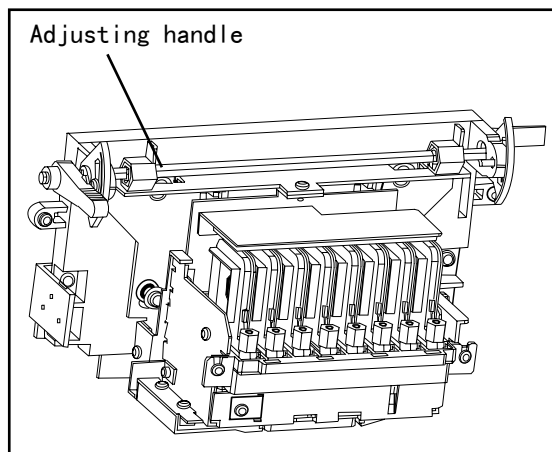


| 6 | Turn on printer and enter in HEAD ADJUST interface which is under MENU. And load paper. |

[MENU]key

▼

```
MENU          ▶▲
HEAD ADJUST       ▼
```
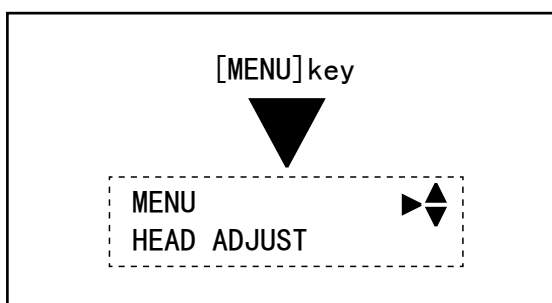
[HORIZONTAL ADJUSTMENT]

| 7 | Choose HORIZONTAL TEST PRINT under HEAD ADJUST menu. Then press ENTER. |

```
MENU          ▶▲
HEAD ADJUST       ▼
```

[▶]

```
HEAD ADJUST   ▶▲
HORIZONTAL        ▼
```

[▶]

```
HORIZONTAL    ↵▲
TEST PRINT        ▼
```
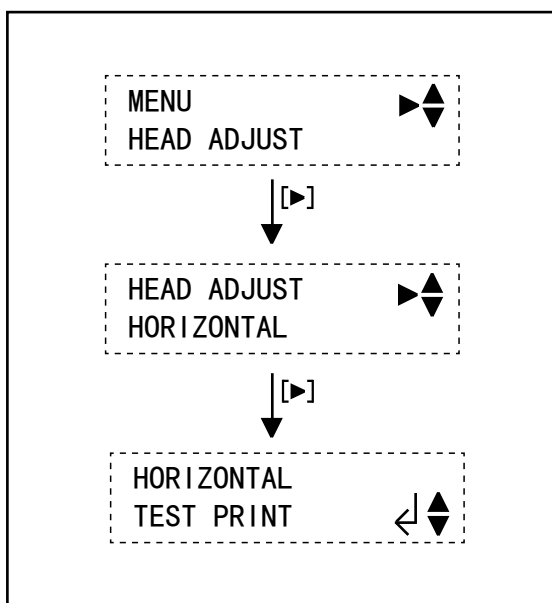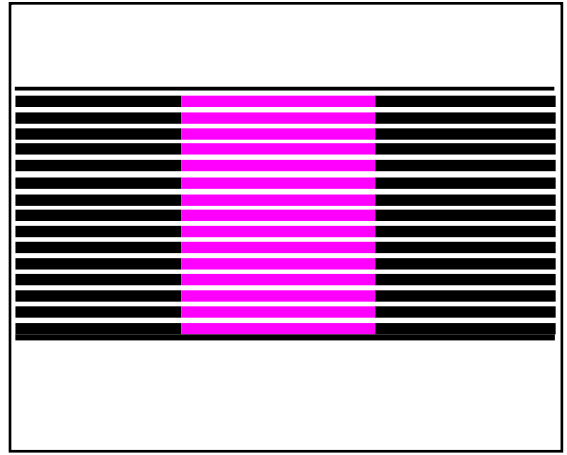
| 8 | Test result as shown in the left picture will be printed. |



| 9 | Adjust regulating rod on head's right side, to make the lines of two color in the same line. |



Adjusting handle
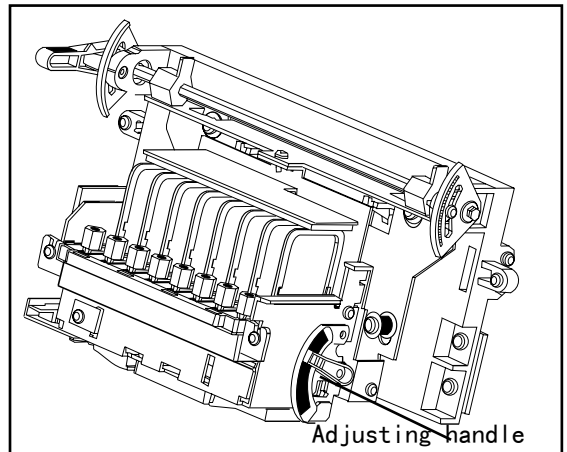
*Remark*

    If magenta line is below black line, move the regulating rod up.

    If magenta line is above black line, move the regulating rod down.
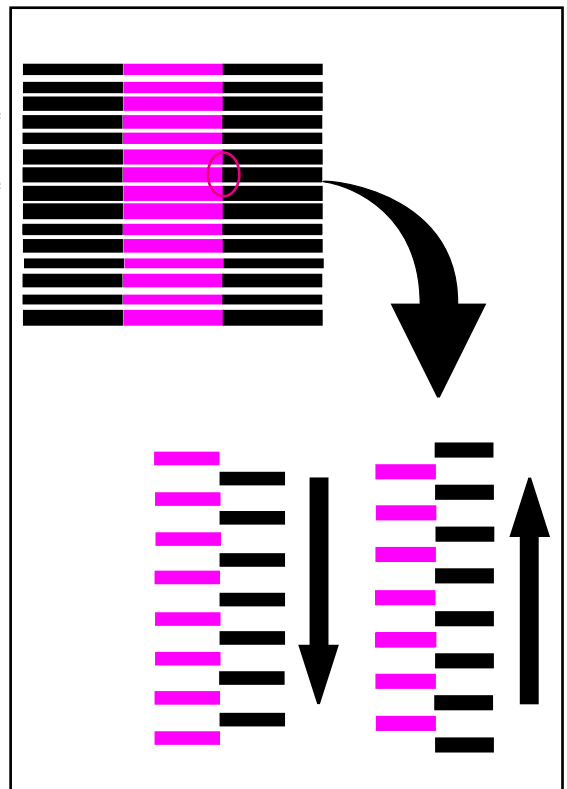
VERTICAL ADJUSTMENT

[10] Choose VERTICAL TEST PRINT under HEAD
ADJUST menu. Then press ENTER.
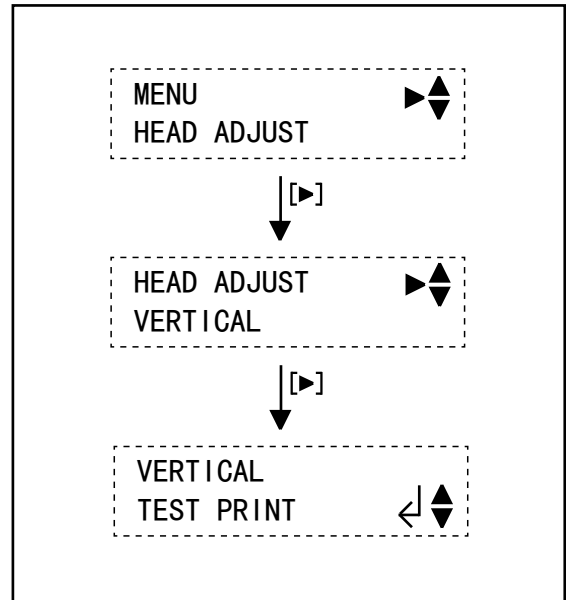


[11] Test result as shown in the left
picture will be printed.



[12] Loosen head fixing screw, move head
support to adjust each color's
color bars in the same line.
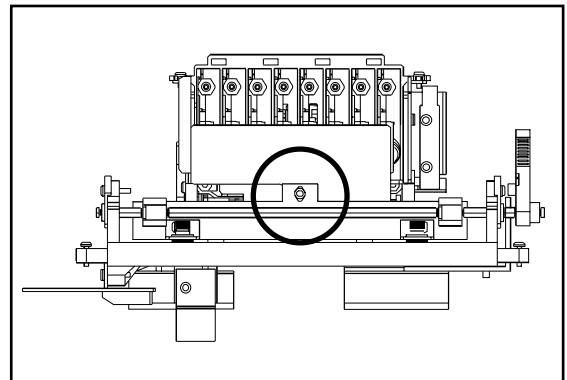
*Remark*

    If upper line is on the left of lower line,
move screw up.
    If upper line is on the right of lower line,
move screw down.
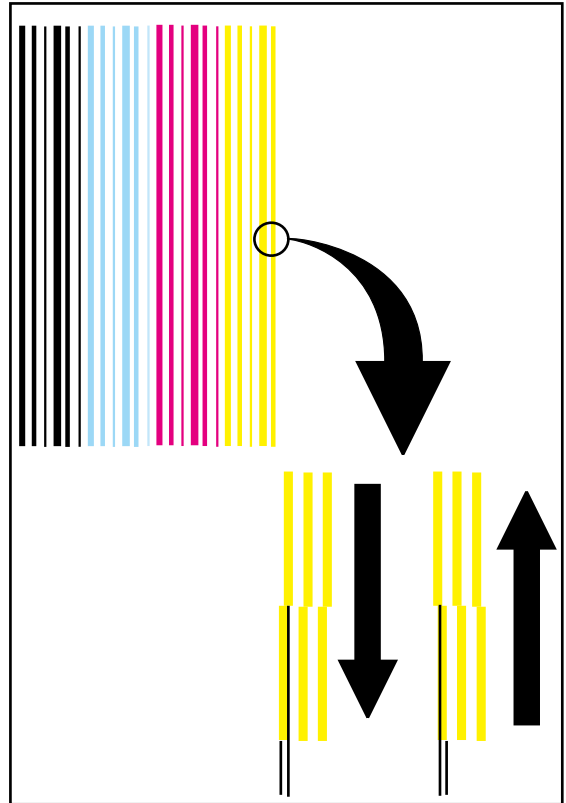


| 13 | Print test result again until head is adjusted well. |
|----|----|

Either HORIZONTAL TEST PRINT or VERTICAL TEST PRINT is adjusted well, the other will
be precise, and no need to adjust it, while if the other is devious, that because
print head is not at the same level with platform.

## Printhead alignment

Adjustment
To adjust the deviation of paper feeding number of grinding wheel which is due
to the various kinds of printing material.
Please make this adjustment before changing printing material.
Doing this adjustment can make dot position preciser and print quality better.

> When adjust paper feeding, please load material first then test print.
> If paper is loaded incorrectly, so test print will not work correctly.
> Software setting is prior if your software can set paper feeding precision.
> Only when the software do not set paper feeding precision, the value set
> through operation panel will be valid.

1. Press MENU and ▼ , and printer will show as follows:
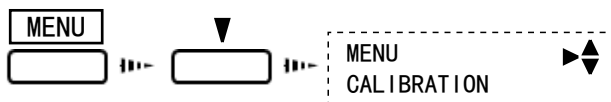
```
MENU          ▼
                      MENU          ▶▲
                      CALIBRATION      ▼
```

2. Press ▶, and printer will show as follows:

```
▶
              CALIBRATION
              TEST PRINT     ↵▲▼
```

3. Press ENTER and print will test print.

The current value.

16  14  12  10  8  6  4  2  + 0 –  2  4  6  8  10  12  14  16
                              2pass
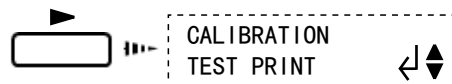
Value of no deviation.
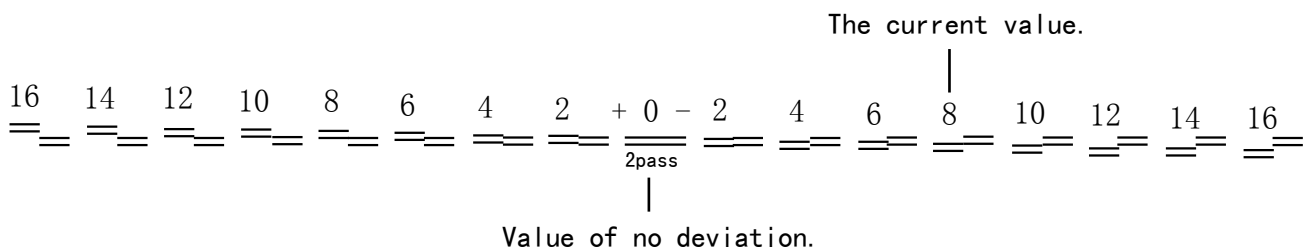
4. Check the test result and choose a value of no deviation.

5. Press ▼ , and printer will show as follows:

```
▼
              CALIBRATION
              M-ADJUST ◀-8▶  ↵▲▼
```

6. Change this value to the right number via ▲ and ▼ , and then press ENTER to confirm this value.

```
CALIBRATION
M-ADJUST ◀ 0 ▶  ↵▲▼

              ▲
                      ENTER
              ▼
```
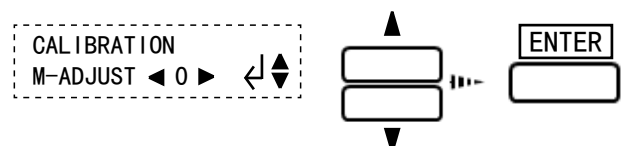
## Double direct adjustment

* This operation is only available when you choose "BI_DIRECTION" under PRINT QUALITY.

To regulate the offset of bidirectional print.
This operation is prerequisite if printing material is changed or head height is adjusted.

**1.** Press MENU and ▼, and printer will show as follows.

```
MENU          ▼
                      MENU          ▶♦
                      BIDIRECTION
```

**2.** Press ▶, and printer will show as follows.

```
▶
                      BIDIRECTION
                      TEST PRINT    ↵♦
```
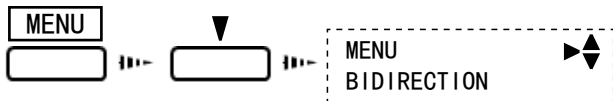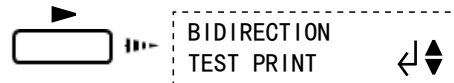
**3.** Press ENTER and print will test print.

Test result

The current value

```
7 6  5  4  3  2  1  0      10 9  8  7  6  5  4  3  2  1 +0- 1  2  3  4  5  6  7  8  9 10
```

Value of deviation

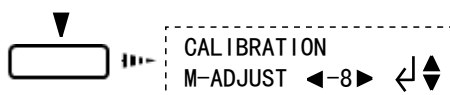**4.** Check the test result on the right and choose a value of no deviation.

**5.** Press ▼, and printer will show as follows.

```
▼
                      BIDIRECTION
                      ADJUST  ◀+7▶  ↵
```
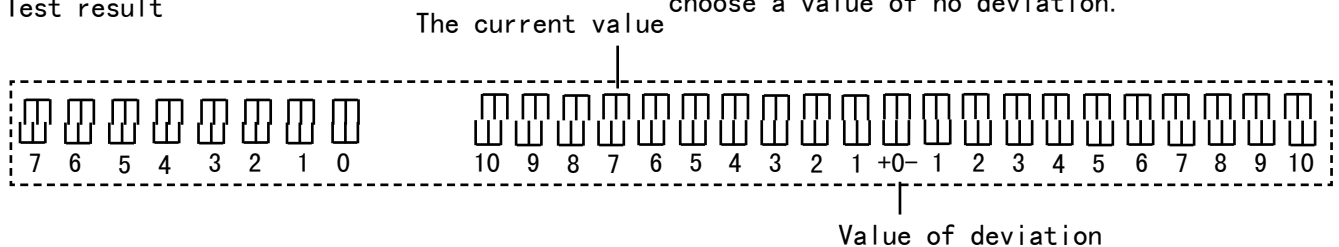
**6.** Change this value to the number you chose in step 4 via ▲ and ▼, and then press ENTER to confirm this value.

```
BIDIRECTION
ADJUST  ◀ 0 ▶  ↵        ▲          ENTER
                        ▼
```
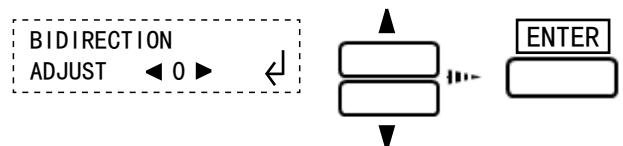
**7.** Back to the step 2 and test print again.

Test result  The current value

```
7 6  5  4  3  2  1  0      10 9  8  7  6  5  4  3  2  1 +0- 1  2  3  4  5  6  7  8  9 10
```

Value of no deviation

**8.** Check the test result on the left and choose a value of no deviation.
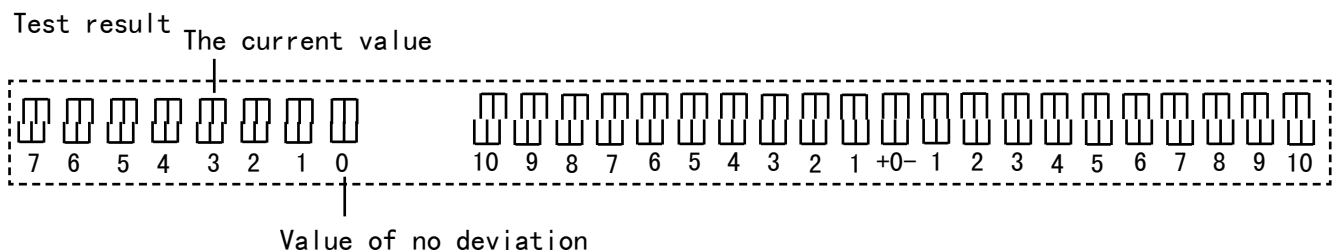
**9.** Press ▼, and printer will show as follows.

```
▼
                      BIDIRECTION
                      L_ADJ  ◀3/8▶  ↵
```

**10.** Change this value to the number you chose in step 8 via ▲ and ▼, and then press ENTER to confirm this value.

```
BIDIRECTION
L_ADJ  ◀0/8▶  ↵        ▲          ENTER
                       ▼
```
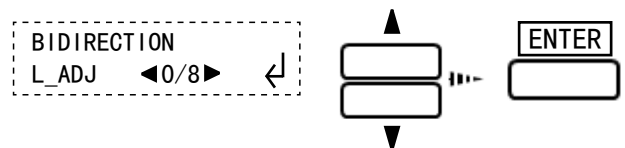
## Change cartridge

## ⚠WARNING

🚫 Do not use this printer under the following environment: open fires, electric spark, static electricity, high temperature or any place close to heat. Otherwise it may cause fire.

🚫 Do not put cartridge, cleaning solution or waste inks under the following environment: close to open fires,high temperature, any place close to heat,or close to bleacher,chemicals or inflammable and explosive materials, otherwise it may cause fire.

## ⚠CAUTION

❗ Keep your working environment well ventilated. Otherwise it may affect your health or cause fire.

🚫 Do not drop any ink or cleaning solution on your skin or eyes. Do not eat, drink, smell the ink and cleaning solution. All these behavior are harmful to your health.

❗ Keep the cartridge away from child.

**NOTICE**

Only use the ink supplied by us! Do not try to fill ink into the empty cartridge.

Except for transport, please do not take off the cartridge.

If ink used up please change to a new cartridge with the same color and same type immediately. If take off the cartridge please install a new one immediately.

Do not tear off cartridge.

Ink should be stored under the environment of well ventilated, and keep its environment temperature from -20 to 40℃(-4~104℉).

Any shake might damage the cartridge, so do not use it again.

Please handle with care when install or take off the cartridge.

📝 Do not take the cartridge off until the inks used up. Because when cartridge took off from printer, the air may come into the ink pipe, so print quality will be reduced.

# 1   Unplug the cartridge.

Cartridge slot

# 2   Insert a new cartridge.

Ink
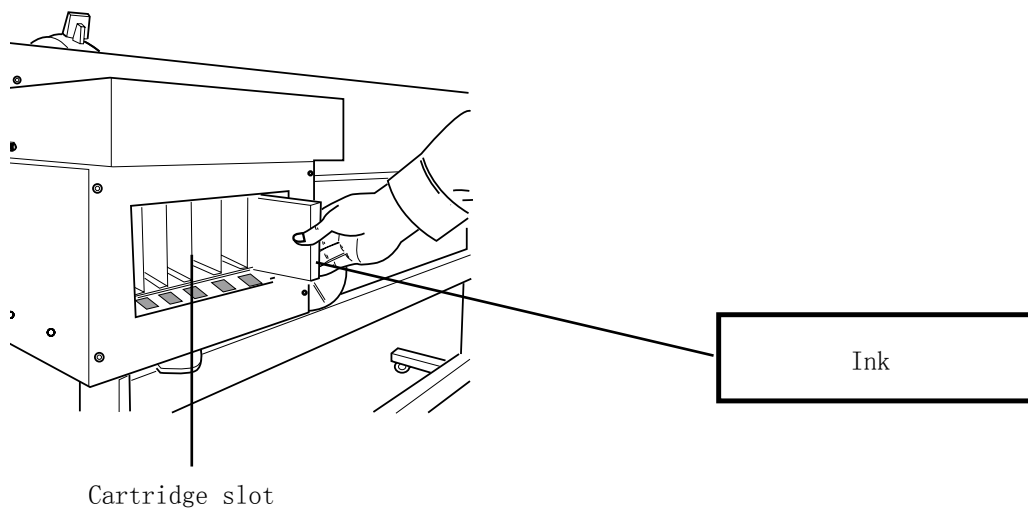
# Handle waste inks

Please handle waste inks as following steps when ink reaches the limit level of waste ink collecting box or you need to move the machine.

## ⚠CAUTION

🛇 Collect the waste ink via our waste-ink-collecting container. The fire or illness may caused if waste ink leak or evaporate.

NOTICE    When take off waste ink collecting box please keep it vertical and do not shake, as it might spatter out.

Waste ink can not be reused and it contains poisonous compositions. So do not burn or handle it as a general rubbish.
Do not pour waste inks into sewer or river, otherwise it might cause environment pollution.

1 Turn off the power.

2 Take off the waste ink collecting box which is full with inks.
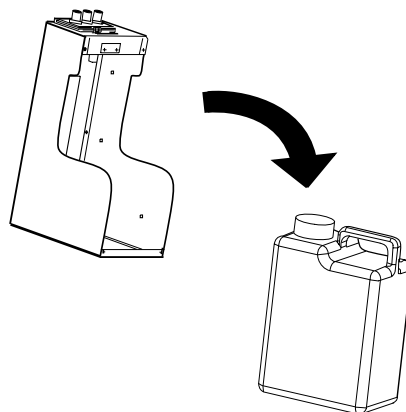


3 Carefully handle it obey your local law and rules.

# Cleaning

| | |
|---|---|
| **NOTICE** | Before cleaning please turn off the main power switch and unplug the power cord first. *Turn off the sub power switch first and then turn off the main power switch. |
| | Do not add lubricating oil on mechanical parts. |
| | Do not use solvent cleaning solution to clean. (Like gasoline or thinner) |
| | Cleaning pressure plate regularly, because it will affect print quality if it is dirty. |
| | Do not touch print head by hand or any other material. |
| | Keep printer clean at any time. |
| | Clean print head with our special cleaning cloth (or cleaning rod) and cleaning solution. |
| | Do not clean or rub print head surface with any materials which might cause irreparable damage. |

Cleaning printer body
Cleaning printer body carefully with wringed wet cloth. While clean operation panel or display screen with dry and soft cloth.

Cleaning pressure plate
Cleaning pressure plate carefully with wringed wet cloth.

Cleaning grinding wheel
Clean up the dust and impurities with brush. Clean it in horizontal direction while rolling it.
The dust might block the material moving.

Cleaning paper pressing wheel
Cleaning it carefully with wringed wet cloth.

Cleaning reflection bar
Cleaning it carefully with wringed wet cloth.

Cleaning front cover
Cleaning it carefully with wringed wet cloth

## Menu list and directions

Menu list and directions

Press PRINT QUALITY to enter into print mode.

| Main menu | Submenu | Function | Setting range | Default |
|---|---|---|---|---|
| PRINT QUALITY | BI_DIRECTION | Set print direction, it has two options, one is unidirectional, the other is bidirectional. Bidirectional print Print head will print whether it moves to right or to left. Unidirectional print Print head will print only when it moves from right to left. | BI_DIRECTION/ UNI_DIRECTION | BI_DIRECTION |
| | ECLOSION NONE | Set eclosion type 3 options: Eclosion none/Eclosion type1/ Eclosion type2 Eclosion type1 Bottom up at the boundary of eclosion. This eclosion is gradually changed Eclosion type 2 The eclosion area is of a crest shape. Bottom up at the boundary of eclosion. This eclosion is gradually changed | ECLOSION NONE/ ECLOSION TYPE1/ ECLOSION TYPE2 | ECLOSION NONE |
| | PICSPACE | Set the distance between picture and paper. | | |

Press HEAD CLEANING and enter into print mode

| Main menu | Submenu | Function | Setting range | Default |
|---|---|---|---|---|
| HEAD CLEANING | START | Enter into clean state and start to cleaning by pressing ENTER, then cleaning prcess will be displayed with percentage. | —— | —— |
| | TEST PRINT | Test print Press ENTER and it will test print, If there is white lines in printed result, go back to the previous step of "START", then clean again until print test is OK. | B/C | B |
| | INKFILL START | Press ENTER and fill ink automatically, now the screen will display STOP, and it will automatically stop when inkfill finished. | INKFILL START/INKFILL STOP | INKFILL START |

Press MENU to enter into print mode

| Main menu | Submenu | Function | Setting range | Default |
|-----------|---------|----------|---------------|---------|
| MENU | SHEET TYPE | Set sheet type and it has two options:transparent or opaque. | OPEN/OPAQUE | OPEN |
| | BIDIRECTION | Bidirectional alignment,set the offset of bidirectional alignment and test print.Or align slightly,and now the offset unit is 1/8 of ADJUST. | —— | —— |
| | CALIBRATION | Calibration 3 submenus:PASSNUM/TEST PRINT/ADJUST | —— | —— |
| | AUTO SHEET CUT | Tow options for setting: cut sheet automatically or by hand | ENABLE/UNABLE | ENABLE |
| | HEAD ADJUST | Horizontal adjustment or vertical adjustment | HORIZONTAL/ VERTICAL | HORIZONTAL |