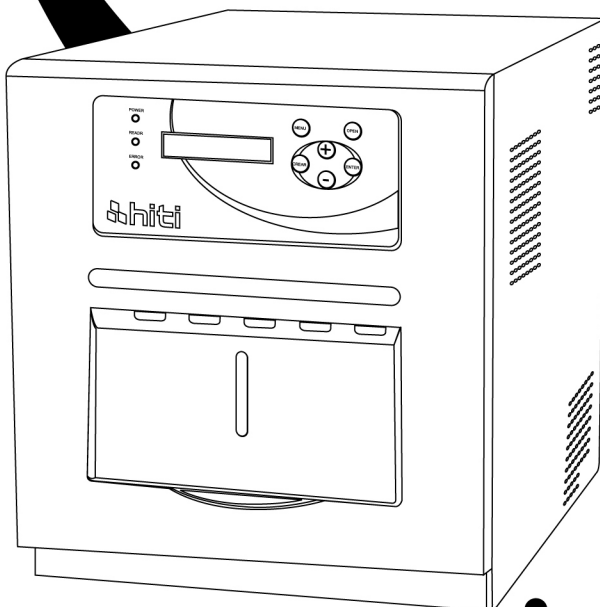


HiTi P710L

user manual



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Chapter 1. Important Safety Instruction

This manual provides detail instructions for the safety use of the printer.
Please read this manual carefully before operating the printer to ensure proper use.

- ◆ In this manual, there are notes that require special attention.
For your safety operation, Safety Notices are separated as follows;

 Warning: Inappropriate handling can cause the death or serious wounds.

 Caution: Inappropriate handling can cause wounds and/or physical damage to the users.

Attention: Explanation about the cause of the trouble and the environmental condition.

- ◆ It is difficult to forecast all the danger in setting and use of the printer. Therefore, warnings in this Operation Manual, in the other documents on the printer cannot cover all the cases. In case of performing the operation or maintenance which is not described in this manual, all the concern for the safety have to be taken care of at the customer side.
- ◆ Operation and the notification for the maintenance described in this manual and other documents are for the proper use of the printer. In case of using the printer for the other purpose, all the concern for the safety has to be taken care of at the customer side.
- ◆ Do not perform the operation which is prohibited in this manual and other documents.
- ◆ The contents that cannot be printed due to a failure while using the use of this printer are not guaranteed.

Chapter 1. Important Safety Instruction

Environments

To use the printer safely, please pay attention to the followings:



Caution: Do not let children to touch the printer or the cables. It can cause accidents or electric shock.



Caution: Do not place the printer under a humid or dusty place. It can cause a fire, electric shock or printer problem. Do not place the printer with dust, sand and high humidity such as bathing place, bathroom, hot spring, or on the street.



Caution: Do not place the printer on rickety place and/or inclined place. Printer may fall down or tumble and it can cause serious injury.

Attention: Do not place the printer under the low temperature such as ski gelande, skating rink or open-air with direct sunlight.



Warning: Do not put vase, flowerpot, and cup or anything contents water or metallic items on the printer. Water spilt or metric items fall into the printer may cause the fire and electric shock. In case the water spilt or metallic items fall into the printer, please turn off the printer power immediately.



Warning: Do not block the openings of the printer. In case, the opening blocked, the heat will remain inside and it can cause the fire.



Warning: Do not insert or fall the metallic or flammable items into the printer through the openings of the printer, it can cause the fire or electric shock.

Chapter 1. Important Safety Instruction

Handling Instruction

When handling the printer, please pay attention to the followings;



Warning: Lift the printer from its box and put it onto a flat and firm table or desk.



Warning: The printer alone (without paper and ribbon installed) weights around 20Kgs (45 lbs). Please handled the printer carefully and always use the handles on the printer to prevent personal injury and damage of the printer.



Warning: The printer is heavier at front side than rear side so please be careful in transportation. When moving the printer, hold the handles located at the front and the rear of the printer. It is strongly recommended to handle the printer by at least two persons during the transportation.



Warning: Please take caution when transporting the printer on the slippery floor.



Warning: Please make sure the power is off and the power cord is removed from the printer before transportation.



Warning: In the case of dropping the printer during transportation, contact HiTi dealers or service center for inspection of the printer. Using the printer with possible damage without proper inspection may cause fire or electric shock.



Warning: Do not dismantle or remodel the printer. Some sections of the printer contain a high voltage or become very hot. Ignoring this warning may cause electric shock, fire, or burns.

Chapter 1. Important Safety Instruction

Handling Instruction - Continued from previous page



Warning: Secure the power cable firmly while using.



Warning: The thermal head reaches high temperature during operation but it is normal. Do not touch the thermal head by any case. Touch the thermal head may cause personal injury or damage of the printer.

Attention: Touching the surface of the thermal head directly may cause damage to the thermal head. Hard object getting into the printer may also cause the damage to the printer mechanism. In such case, please do not use the printer while any obstacle inside the printer.



Warning: Do not attempt to service the printer beyond the instruction specified in this document. In case of irrecoverable problem, please contact HiTi dealers or service center.



Warning: This product must be grounded at all time during operation, and always used with the specified power cable only or the power cable accompanying this product.

If the product is used without grounding, and current leakage occurs, fire or electrical shock may occur, and may also cause interference to radio, television, and other similar electric appliances signal receiving. If the proper grounding connection is not available, please contact HiTi dealers or service center.

Chapter 1. Important Safety Instruction

Handling Instruction for Consumable and Printed Outputs

In handling the ink ribbon, paper and printed outputs, please pay attention to the followings;

Attention: Paper Handling

- Use only the paper specified by Hi-Touch Imaging Technologies.
- Store the paper flat.
- Store the paper in a dry and dark place to avoid direct sunlight.
(Temperature less than 30°C, Humidity: less than 60%).
- Do not touch the paper surface before printing to avoid fingerprints.

Attention: Ink Ribbon Handling

- Use only the ink ribbon specified by Hi-Touch Imaging Technologies.
- Store the ink ribbon in cool place to avoid direct sunlight.
(Temperature less than 30°C, Humidity: less than 60%)

Attention: Printed Output Handling

- Store the printed outputs in a cool place to avoid direct sunlight.
- Store the printed outputs away from the organic solvent/fluid such as benzene, thinner or alcohol which may change or deteriorate the colors.



Caution: When abandon the ink ribbon, please handle it as harmful industrial waste.



Caution: Please take caution while handling the paper to prevent injure to the hands or paper-cut.

(MEMO)

Chapter 2. Installing and Set Up

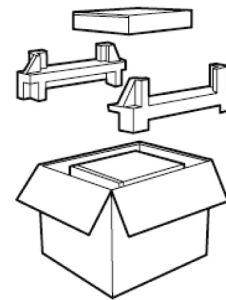
This chapter describes the unpacking and set up of the printer.

Before proceeding to this chapter, please make sure the Chapter 1. Important Safety Instruction is acknowledged carefully.

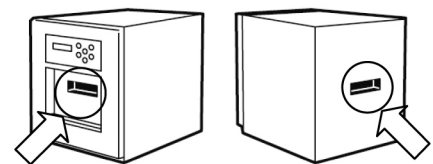
Unpacking and checking the accessories

Open the box and remove the accessories box and the protective materials.

[Attention]: Please retain the box and packaging materials for the transportation of the printer when necessary.



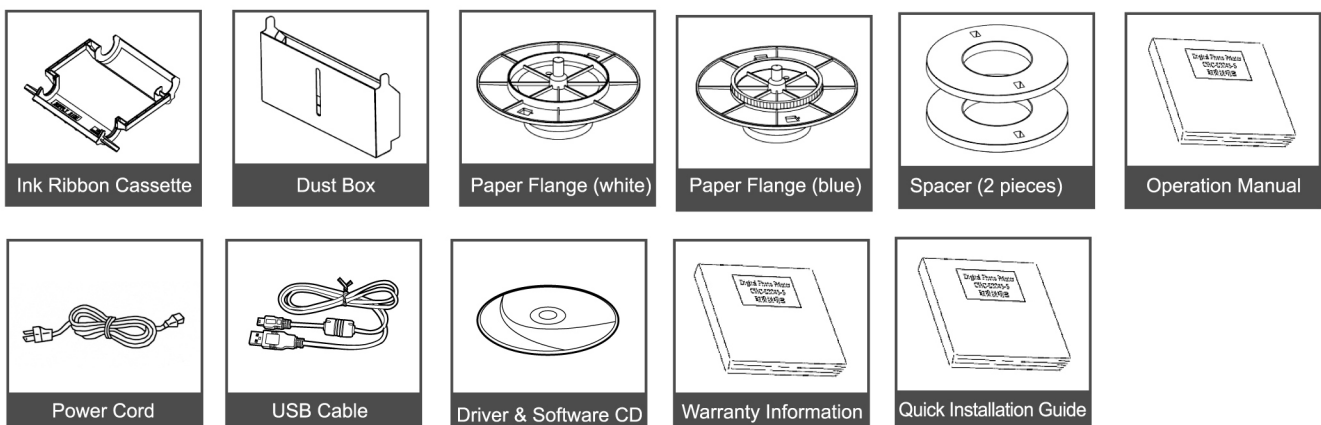
Take out the printer by holding the handles located at the front and rear of the printer as illustrated



[Caution]: The printer alone (without paper and ribbon installed) weights around 20Kgs (45 lbs). Please handle the printer carefully and always use the handles provided to prevent personal injury and damage of the printer.

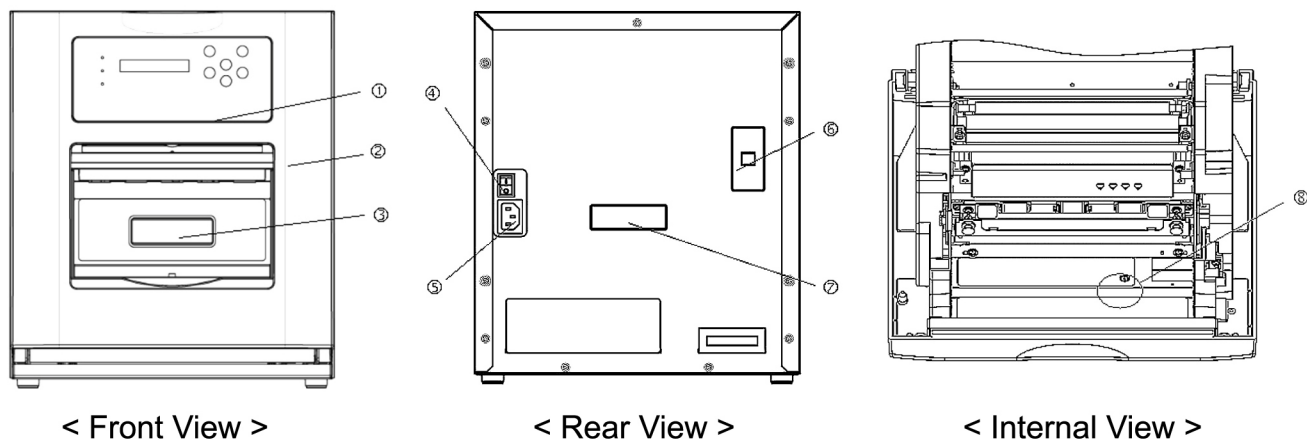


Take out the accessories from the accessory box and check the contents.



Chapter 2. Installing and Set Up

Parts Name and Function

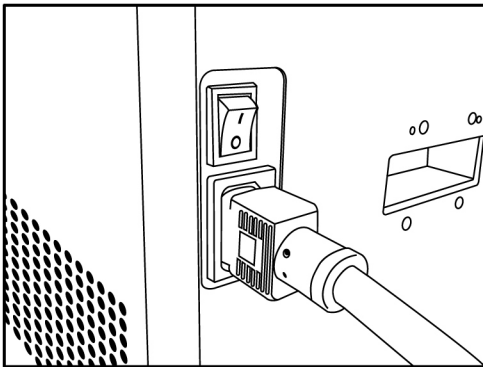


No.	Name	Function
①	Operation Panel	Control buttons, LCD and printer status display lamps are located on the panel.
②	Front Cover	Open the front cover when replacing an ink ribbon or paper, or when performing maintenance.
③	Handle (Front)	When moving the printer, hold this handle and the rear handle.
④	Power Switch	<p>This switch turns on/off the power of the printer. When the “I” marked side of the switch is pressed, the power is turned on. When the “o” marked side of the switch is pressed, the power is turned off.</p> <p><Caution> Once the printer is turned off, wait at least 3 seconds before turning it on again.</p>
⑤	Power Connector	To be used to connect the power cord.
⑥	USB Connector	To be used to connect the USB cable.
⑦	Handle (Rear)	When moving the printer, hold this handle and the front handle.
⑧	Paper Setting Lamp	<p>When setting the paper, insert the paper until the lamp is lit.</p> <p>When the lamp blinks, remove the paper until the lamp goes off.</p>

Chapter 2. Installing and Set Up

Connecting the Power Cord

Connect the power cord according to the safety instructions below.



1. Connect the printer power cord to the back of the P710L and then plug the power cord into a power outlet.



Warning: Make sure to turn off the power of the printer before inserting the power cord.



Warning: Make sure to insert the power cord correctly. Incorrect insertion may cause the fire or the printer problem.



Warning: Do not insert or remove the power cord with wet hands. It may cause the electric leakage.



Warning: Do not damage or make any modification to the power cord. Misusing, such as putting the heavy items on the power cord, giving a strong pull to the power cord and twist the power cord may cause the fire and electric shock.



Warning: When moving the printer, make sure to turn off the power of the printer, remove the power cord in order to have no connection with other devices. Otherwise, the power cord might be damaged and it can cause the fire and electric shock. Also there is a possibility to fall down caught by the cord.



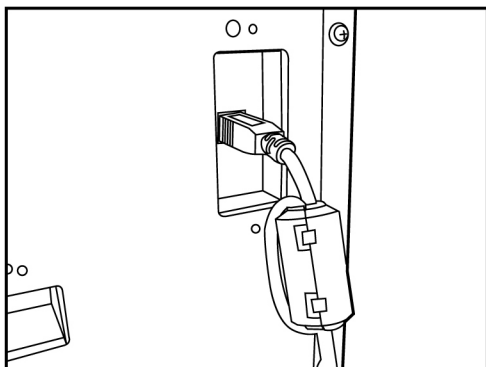
Warning: For the safety consideration, please remove the power cord from the printer if the printer is not to be used for long time.



Warning: Please avoid “piled up” connection which may cause the fire and electric shock.

Chapter 2. Installing and Set Up

Connecting USB Cable

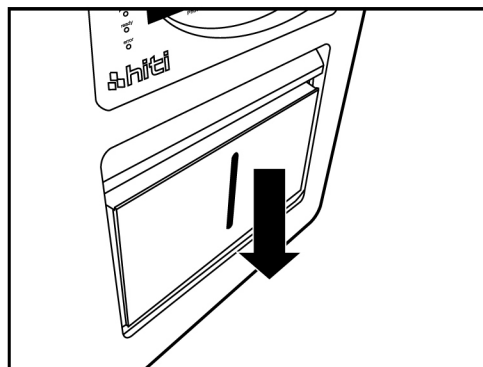
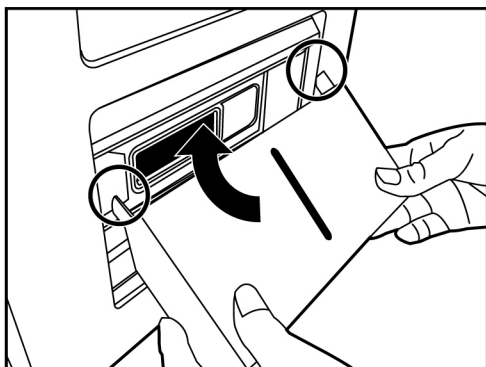


1. Connect the USB cable from the personal computer to the USB connector located on the left rear side of the printer.

Be sure to insert the USB cable all the way.

Attention: To remove the USB cable, make sure that the printer is in the waiting status. Removing the USB cable during data transfer may not be able to print data correctly and cause wastage.

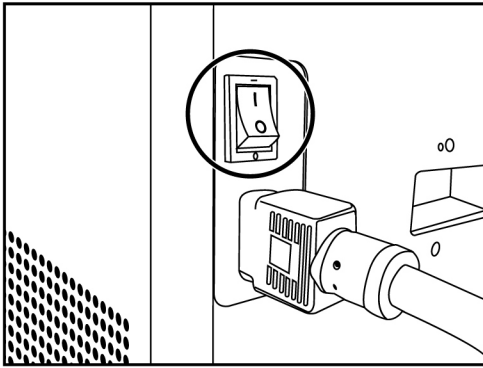
Installing Dust Box



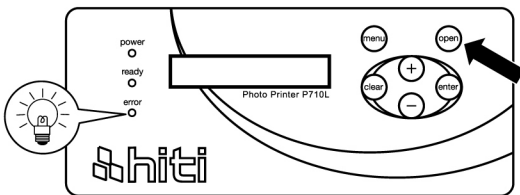
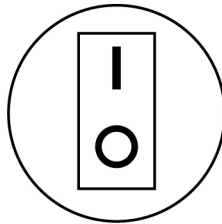
1. Insert the hooks on top of the dust box first and then insert the protruded section of the printer to the hole at the bottom of the dust box.

Chapter 2. Installing and Set Up

Opening the Front Cover

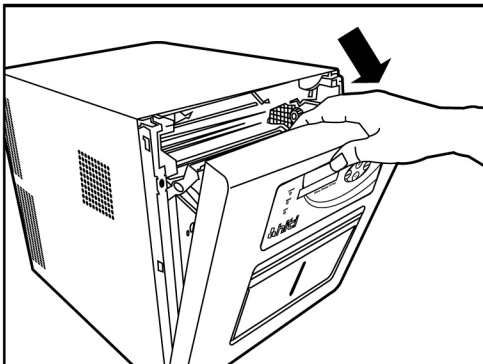


1. Turn on the power of the printer by pressing "I" on the power switch.



2. Press the Open button on the operation panel. After the "error" lamp blinks several times, the front cover opens automatically.

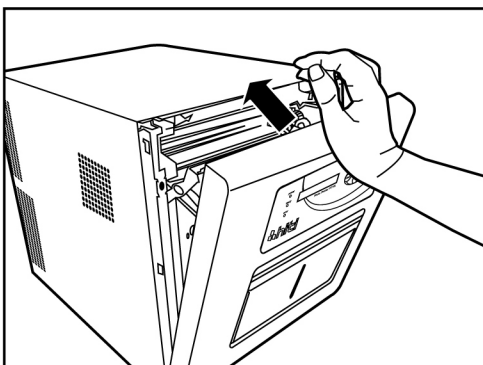
Attention: Do not apply pressure on the front cover when opening the front cover. Otherwise, damage may be caused to the printer.



3. Open the front cover by holding the upper section of the front cover.

Attention: Do not open the front cover with excessive speed or with unnecessary force. Do not press the front cover or place a heavy object other than paper after opening the front cover.

Closing the Front Cover



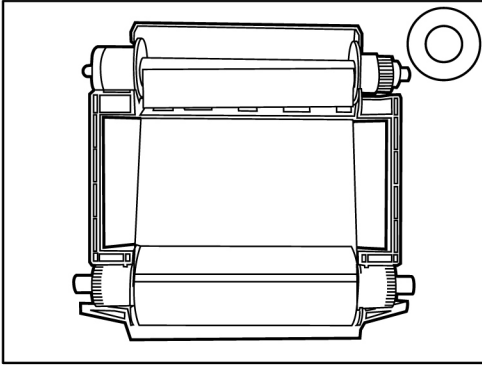
1. Close the front cover firmly by pressing against the center of the upper section of the front cover. The printer will be initialized automatically.



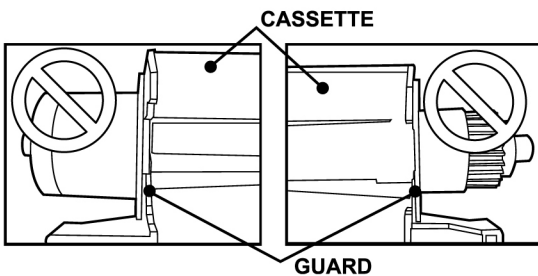
Caution: Close the front cover carefully so as not to clip your fingers.

Chapter 2. Installing and Set Up

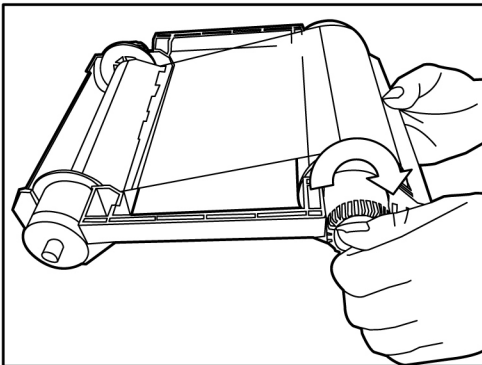
Loading Ink Ribbon



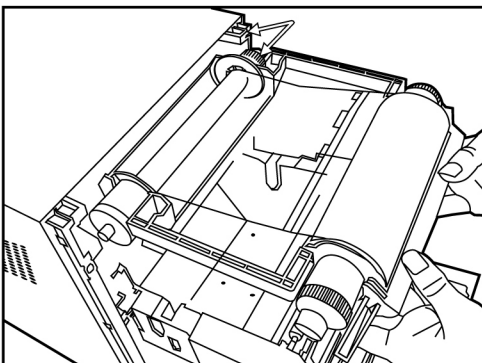
1. Set the ink ribbon in the ink ribbon cassette as shown in the diagram. Insert the ribbon until it clicks into position.



Attention: Please make sure the guards on both sides of the ribbon are set "inside" of the cassette.



2. Stretch the ink ribbon by turning the ribbon core feeding side (the unprinted side).



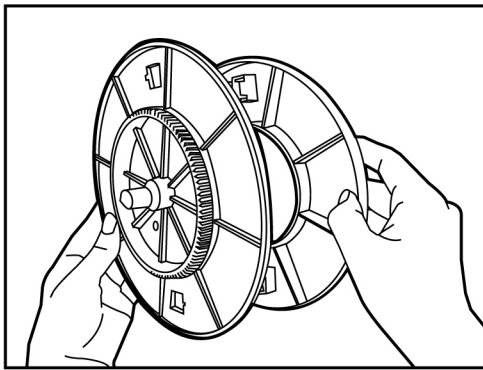
3. Match the color of the ribbon core and the color of the rail and insert the ink ribbon cassette to the end along the rail.

Chapter 2. Installing and Set Up

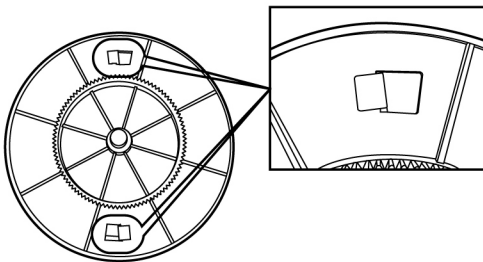
Loading Paper

Install spacers in the paper flanges first when using 5x7 size paper. When using 6x4 size paper or 6x9 size paper, proceed with Step 3 without installing the spacers.

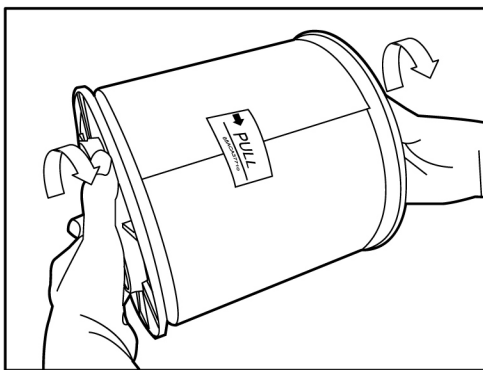
(Note: The availability of some consumable packages may vary in different regions. Please contact your local dealer for the availability of the consumable packages.)



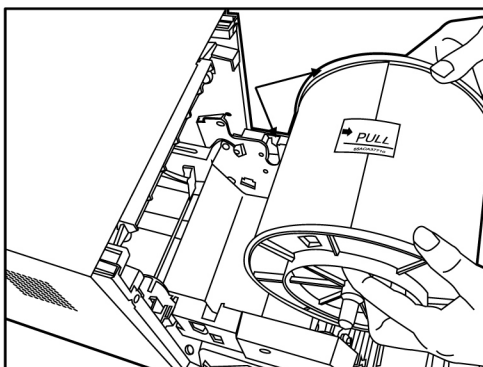
1. Install the spacers in the paper flange (white) and paper flange (blue). The two spacers are identical.



2. Rotate the spacer until it clicks into position. Two locks are provided. Check and make sure the two sections are properly locked.

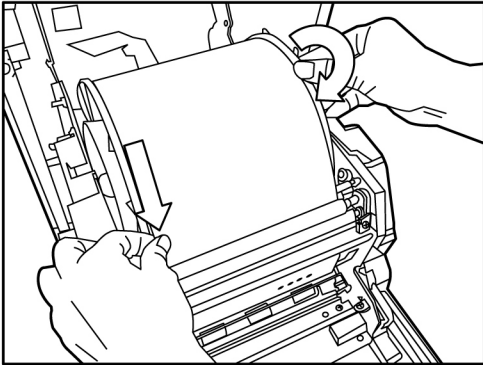


3. Install the paper flange (white) and paper flange (blue) in the paper. The paper is not set correctly if there is a gap of about 10mm between the paper flange and paper. Match the notch of the paper flange and the notch of the paper core by rotating the paper flange. Do not remove the seal attached onto the paper until the paper is set in the printer.

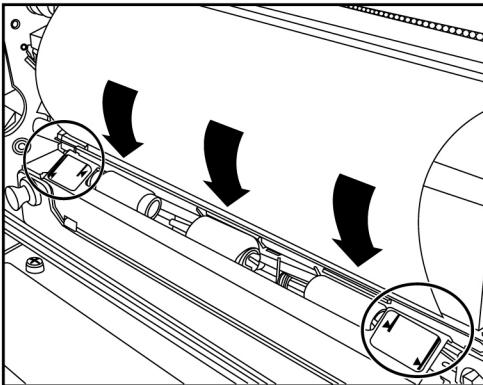


4. Set the paper in the printer. Set the paper by matching the color of the paper flange and the color of the holder. After setting the paper, remove the seal from the paper.

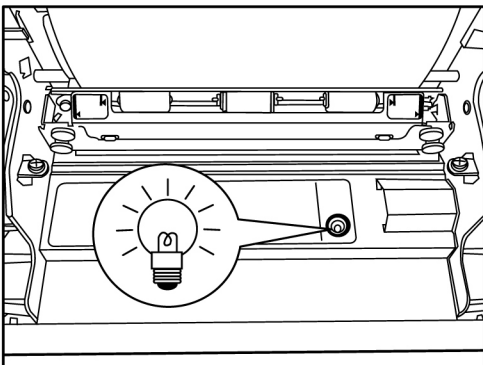
Chapter 2. Installing and Set Up



5. Insert the edge of paper under the roller by rotating the paper flanges.



6. Insert the leading edge of the paper between the rollers by rotating the paper flanges. Match both ends of the paper to the alignment lines masked.



7. Insert the paper until the paper setting lamp lights up .

8. Close the front cover. After each paper roll is loaded/replaced, 4 sheets of paper will automatically be ejected to prevent dust and finger print.

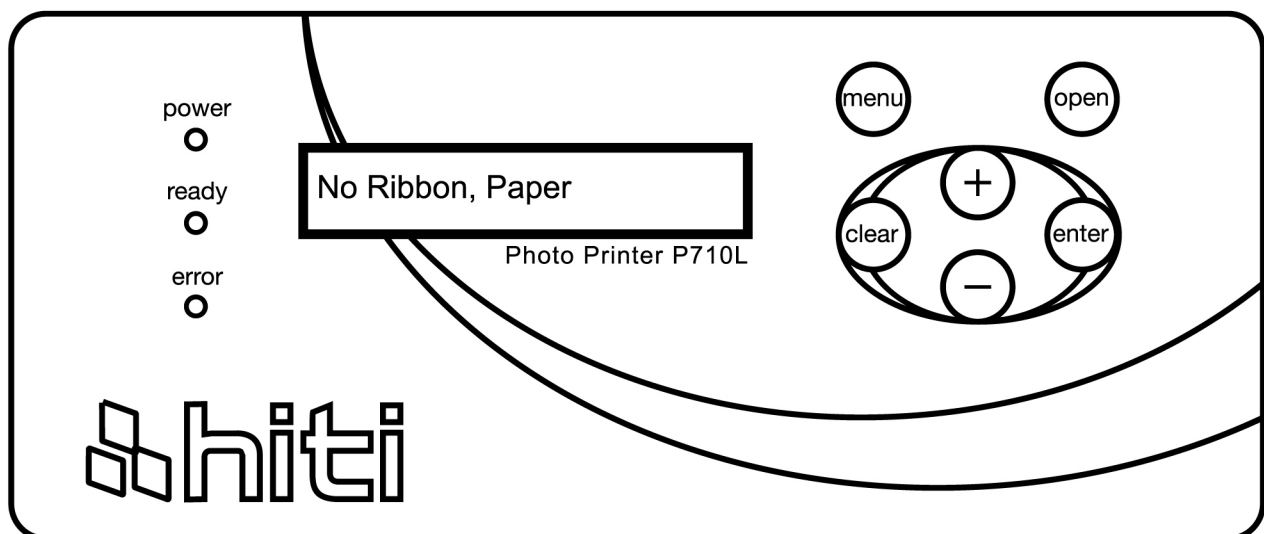
Chapter 2. Installing and Set Up

Transporting the Printer

The following cautions are necessary in transportation of the printer.

Since an incorrect transportation method causes a printer fault, follow the correct method.

1. Remove the ink ribbon and paper from the printer before transporting the printer. If the ink ribbon or paper cannot be removed due to a fault, consult with the dealers or service center.
2. Use a genuine box. If the box used at the purchase cannot be used, consult with your dealer or service center and purchase a new box.
3. Do not turn off the power while the front cover is open. Close the front cover while the power is ON and turn off the power when "No ribbon, paper" is displayed on the LCD of the operation panel.

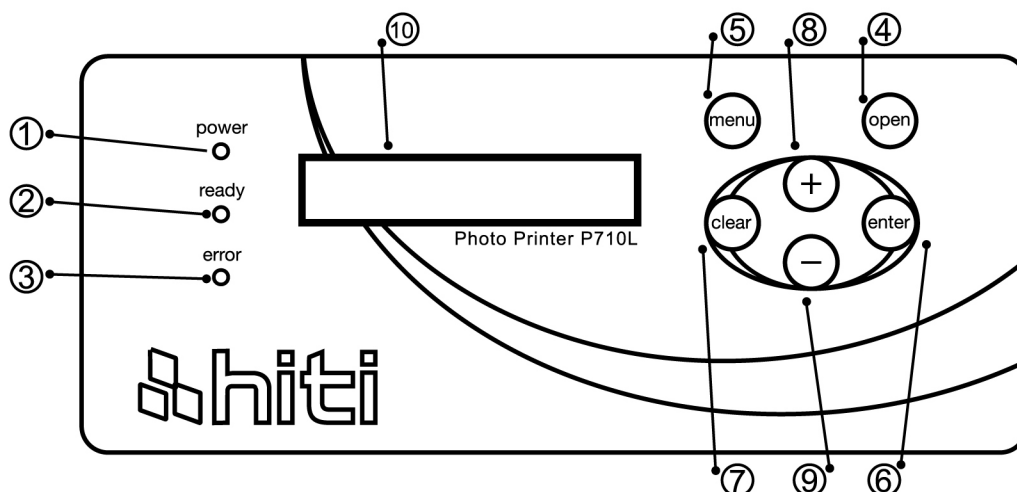


(MEMO)

Chapter 3. Operation Panel

Operation Panel

The buttons, LEDs and LCD display on the operation panel are shown below.



The LED Displays ① to ③ have the following meanings.

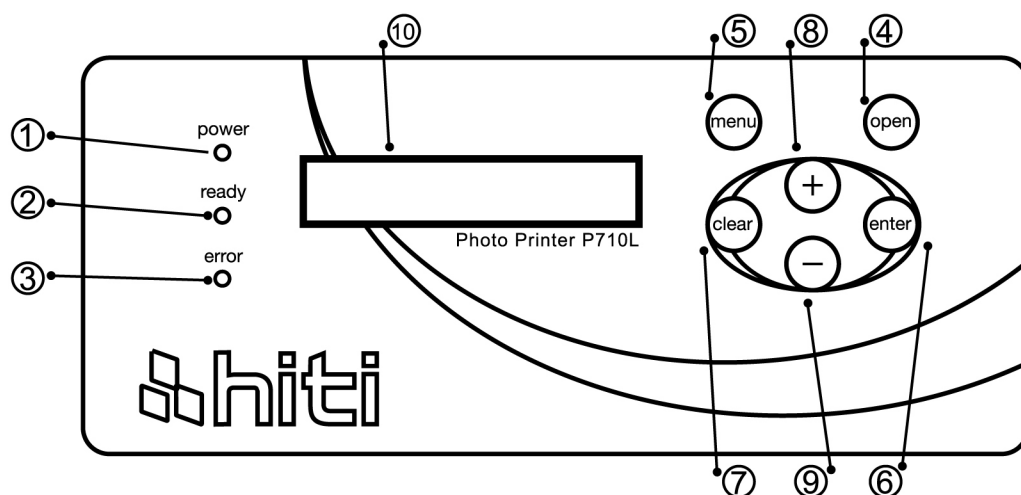
No.	Name	Color	Description
①	power Lamp	Orange	Light when power is ON.
②	ready Lamp	Green	Light when ready to print.
③	error Lamp	Red	Light when error occurs.

Individual Operation Buttons ④ to ⑨ have the following function.

No.	Name	Function
④	open Button	Press this button when opening the front cover. The front cover cannot be opened in Standby mode.
⑤	menu Button	If this button is pressed in Standby mode, the printer is set to a User Set Up mode. (See page 3-3.) Use this button to select an item in the menu.
⑥	enter Button	Use this button to determine the selected setting contents in User Set Up mode.
⑦	clear Button	In User Set Up mode, control exits from the menu that is displayed when this button is pressed.
⑧	+ Button	Not used since the button is for maintenance.
⑨	- Button	Not used since the button is for maintenance.

Chapter 3. Operation Panel

LCD Display



The LCD Display ⑩ indicates the following printer status.

LCD Display	Description
Ready: 4 x 6	Printable statusDisplay is changed depending on ink ribbon being set in the printer.
Initializing	Printer is in initialization.
Ribbon Checking	Winding the ink ribbon.
Paper Loading	Paper is being loaded.
Paper Reloading	Paper is being reloaded.
Printing	Printing.
Cooling Down	The thermal head is being cooled down.Printing is interrupted temporarily until the thermal head is cooled down.

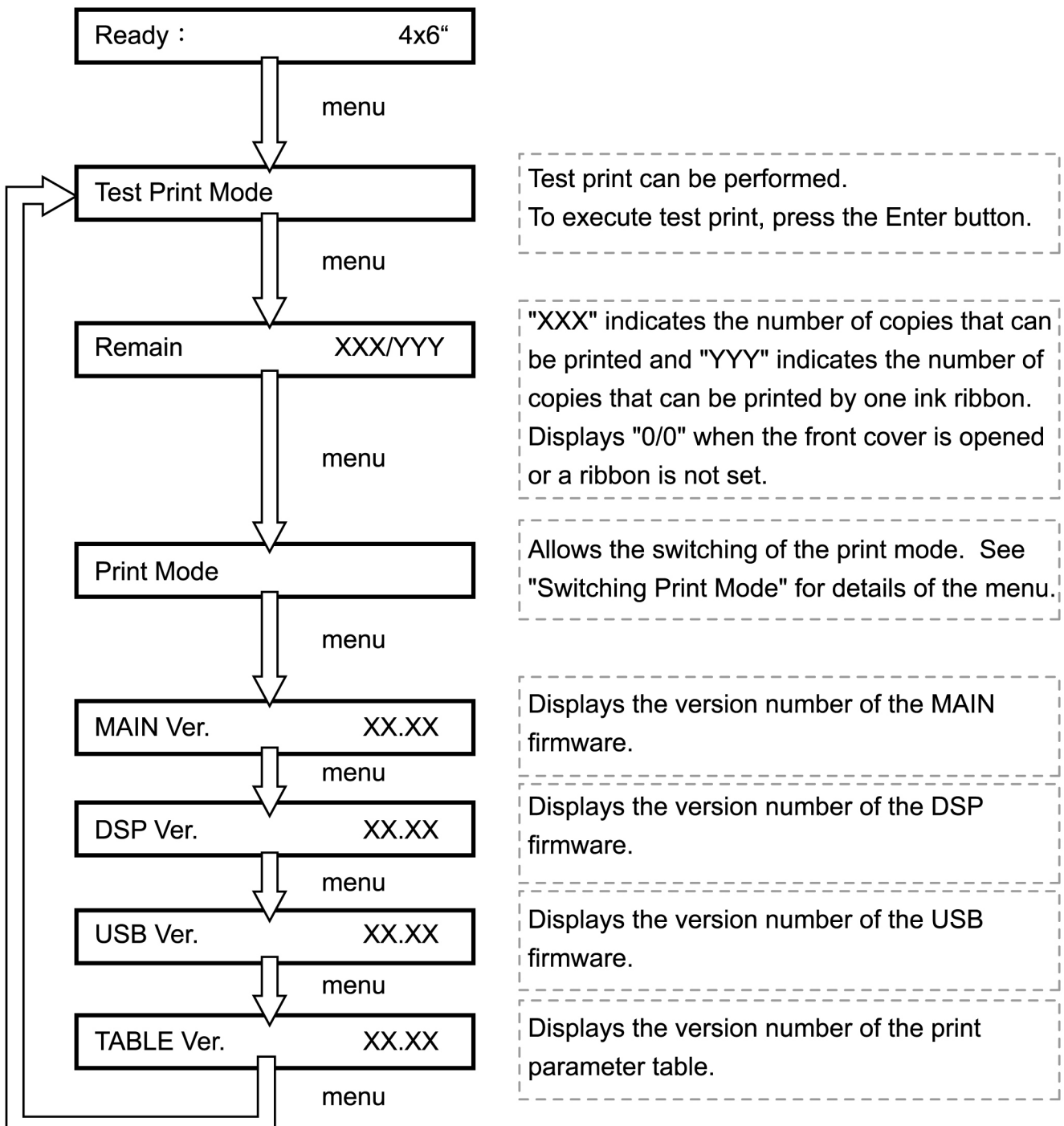
Chapter 3. Operation Panel

User Set Up Mode

To set the User Set Up Mode, press the Menu button in standby mode.

When the Menu button is pressed again, the display changes as follows.

To change to the standby mode from each menu, press the Clear button.

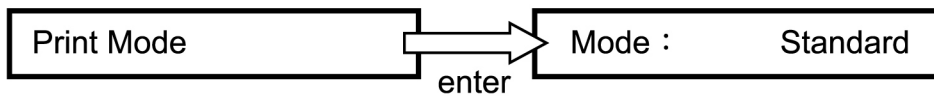


Chapter 3. Operation Panel

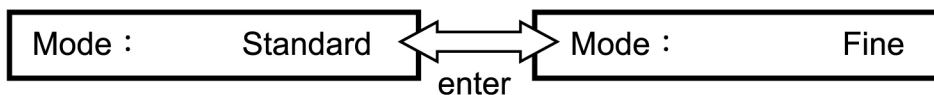
Switching Print Mode

Display the print mode switching menu in User Set Up Mode and press the Enter button.

The print mode that is set in the printer is displayed.

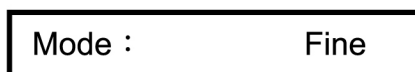


When the Menu button is pressed, the LCD display is switched.



When the Enter button is pressed, the LCD blinks for a moment and the print mode that is displayed is set in the printer.

This setting becomes effective from the next printing.



When the Clear button is pressed twice, the printer returns to the standby mode.

Chapter 4. Routine Maintenance

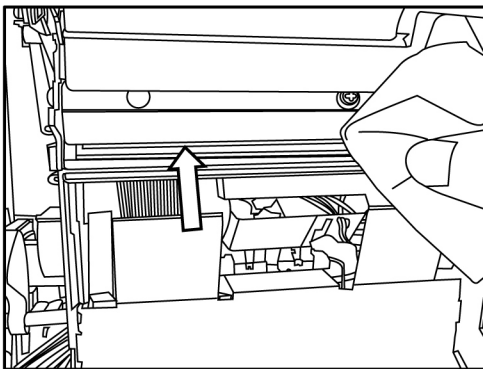
Cleaning of Thermal Head, Platen, Cleaning Roller

By using thermal transfer technology, daily maintenance is not really necessary if the printer has been used properly.

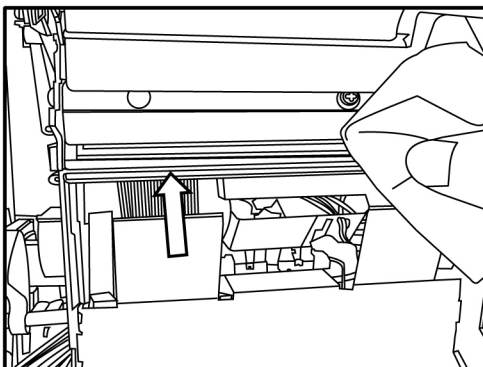
However, in order to keep the best print quality, it is highly recommended to clean Thermal Head, Platen and Cleaning Roller once in a month.



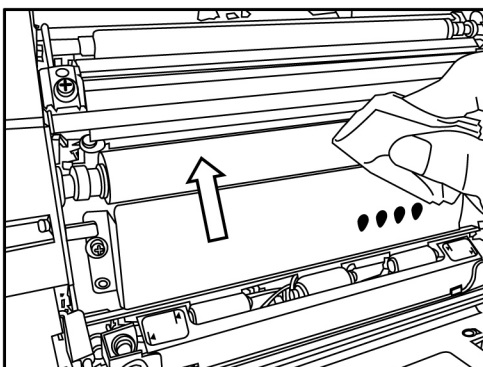
Caution: Make sure that the power is turned off before cleaning. Thermal Head reaches high temperature right after printing. Do not touch by hands directly. Make sure the thermal head has been sufficiently cooled down before starting cleaning. When fingerprint sticks to the heating element, it can damage the Thermal Head. Do not touch directly by hands. Be careful not to be hurt by the projections of the printer.



1. Use gauze, clean the heating element (glass bar) of the thermal head with isopropyl alcohol or ethyl alcohol.

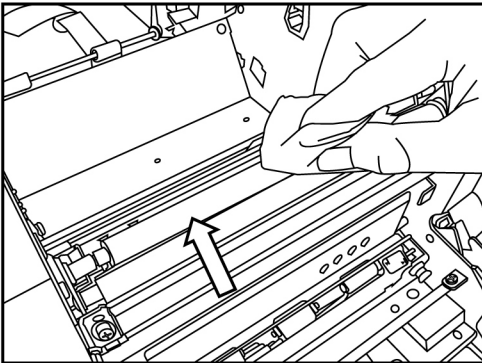


2. Use gauze dipped with isopropyl alcohol or ethyl alcohol, and clean the edge of the peel-apart plate.

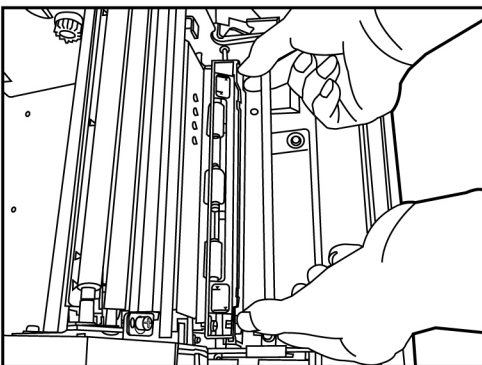


3. Use gauze dipped with isopropyl alcohol or ethyl alcohol, and clean the rubber section of the platen roller.

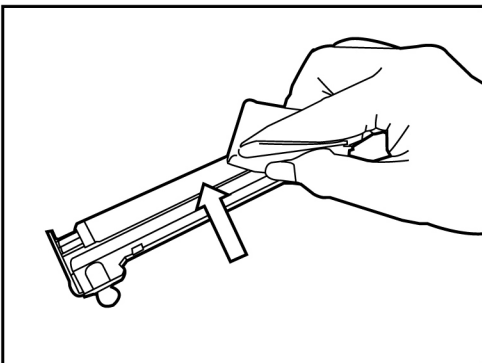
Chapter 4. Routine Maintenance



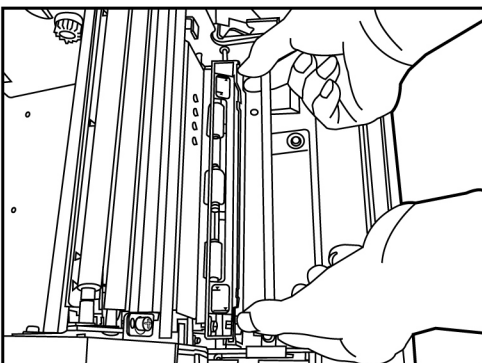
4. Use gauze dipped with isopropyl alcohol or ethyl alcohol, and clean the rubber section of the cleaning roller (paper feed side).



5. The cleaning roller (ejection side) can be removed by pulling the black knobs on the left and right ends.



6. Use gauze dipped with isopropyl alcohol or ethyl alcohol, and clean the rubber section of the cleaning roller (ejection side).



7. After cleaning, put the roller back to the original position and insert until it tightly clicks into position.

Attention: Printing should be performed after the alcohol dried up completely (approx. 5 minutes)

Chapter 4. Routine Maintenance

Cleaning of Outer Cabinet

Wipe the printer outer cabinet with a soft cloth.

If the stains are not removed, wet the cloth and apply weakened neutral Detergent to it.



Warning: In case of foreign substance get into the printer, turn off the power of printer, remove the power cord and contact the dealers or service center. Continuous use of the printer under such condition can cause the fire and electric shock.

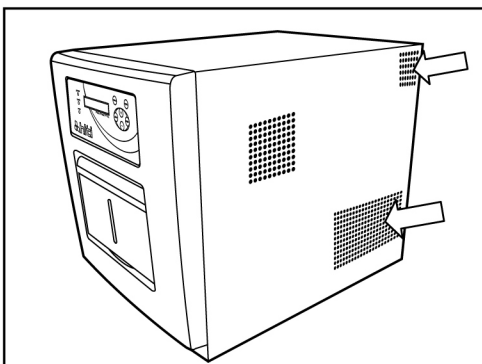


Warning: Continuous use under the abnormal condition such as high temperature, smoke and strange smell can cause the fire and electric shock. Turn off the power and make sure to remove the power cord, then contact the dealers or service center.



Caution: Do not use volatile solvents or spray insecticide on the printer outer cabinet. Otherwise, discoloration or crack may result.

Cleaning of Filter



1. If the dust collects on the openings, clean it with vacuum cleaner.

(MEMO)

Chapter 5. Error Message Handling

Error Message and Corrective Action

When the error happens, error message will be displayed on LCD of the operation panel.

LCD Message	Status	Corrective Action
No Ribbon, Paper	An ink ribbon and paper are not load.	Load an ink ribbon and paper
No Paper	Paper is not load.	Load paper.
Paper Empty	Run out of paper.	Replace paper.
Unmatch Paper	The paper does not match with the ink ribbon has been loaded.	Check the type of the paper and the type of the ink ribbon that are load.
No Ribbon	An ink ribbon is not load.	Load the ink ribbon.
Ribbon Empty	The ink ribbon is empty.	Replace the ink ribbon.
Unmatch Ribbon	The ink ribbon does not match the size of the paper that has been loaded.	Check the type of the paper and the type of the ink ribbon that are load.
IncorrectRibbon X (*)	The ink ribbon that loaded is not supported.	Ink ribbon or printer abnormality is assumed. Consult with the Service Center or dealers.
Cover Open	The front cover is opened.	Close the front cover.
Cover Open Error	The front cover is not opened.	Press the Open button again and reset the error.
Control Error XX (*)	The printer mechanical section is faulty.	If the printer does not recover from the error after turning power ON and OFF, repairs are required. Consult with the service center.
Mecha Error XX (*)	The printer mechanical section is faulty.	
Sensor Error XX (*)	The sensor inside of the printer is faulty.	
TempSensErr XX (*)	Paper jam occurred.	
Paper Jam XX (*)	Paper jam occurred.	Remove the paper. If paper jam occurs frequently, consult with the service center.

* XX means the code number for maintenance. Please advice this number when you contact the dealers or service center.

Chapter 5. Error Message Handling

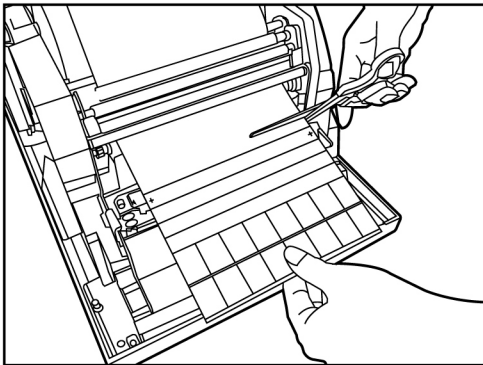
Failure Symptoms

When detecting a failure symptom, check the printer using the following table.

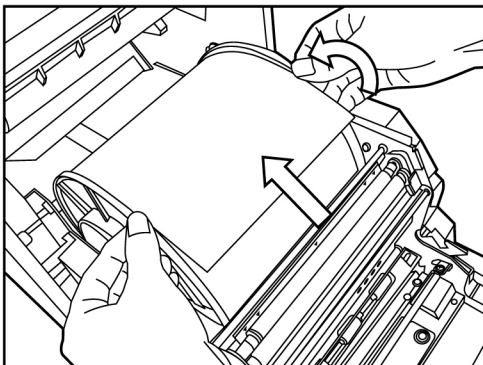
Symptom	Action
Power is not switch on.	<ul style="list-style-type: none"> ● Check if the power cable is connected to the plug socket or the printer.
The personal computer does not recognize the printer.	<ul style="list-style-type: none"> ● Check if the USB cable is connected to the personal computer or printer.
The printer does not become ready.	<ul style="list-style-type: none"> ● Check if the front cover is properly closed. ● Check if paper is jammed in the printer. ● When the paper setting lamp is blinking, ● remove the edge of the paper until the paper setting lamp goes off.
The front cover does not open.	<ul style="list-style-type: none"> ● Check if the printer is installed in a flat location. ● Check if any object is placed in front of the front cover.
A straight stripe area is not printed.	<ul style="list-style-type: none"> ● The thermal head may be dirty. Clean the thermal head as described in Chapter 4, "Routine Maintenance". ● If the blank area remains after cleaning the thermal head, the head may have been disconnected. Consult with the service center.
Dotted areas are not printed.	<ul style="list-style-type: none"> ● The cleaning roller may be dirty. Clean the thermal head as described in Chapter 4, "Routine Maintenance".

Chapter 5. Error Message Handling

Paper Jam



1. Open the front cover.
2. Cut off the folded or printed section with scissors.
When the paper is folded inside of the printer, pull it out gently and slowly.



3. Pull out the paper until the paper setting lamp goes off.

Attention:

- If the paper is used without cutting off the folded or printed section, paper jam occurs again or the ink ribbon may snap during printing. Always cut off the creased or printed section of the paper.
- Cut off the paper straight and at right angles to the roll paper direction.
- If paper jam occurs frequently, a defect in the mechanical section is assumed. Consult with the service center.

Chapter 5. Error Message Handling

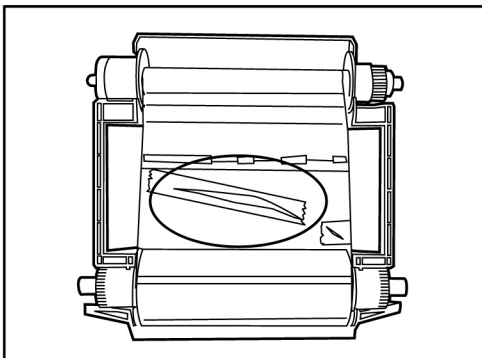
Power Supply Interrupted during Printing

In case of power supply interrupted while the printing, the Thermal Head will be kept on pushing to Platen. Leaving this situation for a long time, the shape of Platen can be warped. In order to avoid this situation, please follow the instruction below.

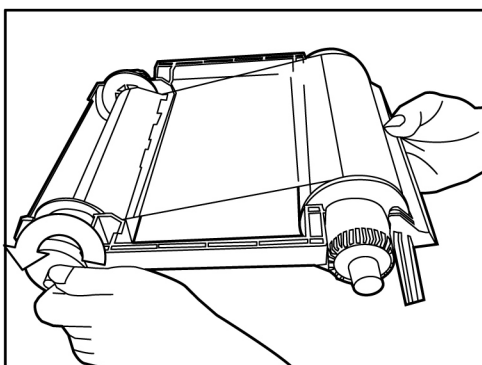
1. Turn off the power of the printer.
2. Turn on the power for 3 or more seconds after turning off the power.
3. Paper Jam is displayed on the LCD of the operation panel, open the front cover and take the necessary action according to the instruction provided in 5-3, "Paper Jam".

When the ribbon is snapped

1. Remove the ribbon cassette.



2. Stick the broken part of the ribbon with a tape.



3. Turn the ribbon on the rewinding side and rewind the taped section completely and tightly.

Chapter 6. After-sales Service

Contact your HiTi dealers or service center for the details about after-sales service.