identium
Creating identities for all

RFID

UHF Label Printer

UHF EPC Gen 2/ISO 18000-6C

User Manual

2018-1-25 Version 1.3

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Statement

This is a Class A product, which may cause radio interference in living environments. In this case, the user may be required to take practical measures against its interference.

Disclaimer of Liability

The manufacturer has tried to describe the product as correctly as possible, but errors are inevitable. All specifications and the configuration of this product are subject to change without notice. The manufacturer of this product or any other party to whom it is delivered assumes no liability for direct or indirect damages resulting from discrepancies or even errors between this manual and the product described.

disclaimer of liability for joint and several damages

in no event shall the manufacturer or any other party to the delivery be liable for any damages (including, without limitation, damages resulting from loss of business profits, business interruption, loss of business intelligence, or other loss of funds) arising out of the use or inability to use this product.

Warning:

- It is strictly forbidden to disassemble and install the printer and its power adapter without the guidance of the manufacturer's authorized maintenance personnel, otherwise an accident of electric shock, injury to the printer's mechanism or damage to the machine parts may occur.
- Use of damaged or worn-out power cords is strictly prohibited, as it may cause electric shock or fire. Excessive bending and pulling of the power cord is strictly prohibited. Do not place heavy objects on the power cord. When pulling out the power plug, grab the plug part, do not pull the power cord part, otherwise it may damage the power cord and cause a fire or electric shock.
- Please refer to the specification labels on the printer and power adapter to make sure you are using the correct power supply specification. Use the original or manufacturer-approved power adapter, otherwise it may malfunction or even damage the printer.
- This printer is intended for indoor use only. Do not use outdoors or in humid, hot or cold environments.
- Do not press or hit the printer heavily as this may damage the printer or cause it to operate improperly.
- In the living environment, this product may cause radio interference. In this case, the user is required to take measures to resolve the interference.
- Place the printer on a level, sturdy flat surface.
- Do not block the ventilation holes of the machine, otherwise it is easy to make the internal temperature of the printer rise and cause failure.
- Turn off the printer when it is not in use for a long time.
- Please use high quality ribbon and label paper, otherwise the print head may be permanently damaged.
- The print head will become hot when working. To prevent personal injury and damage to the print head, please do not touch the print head.
- Print head and electronic components are easily damaged by static electricity, please do not touch the print head and electronic components.

Table of contents

foreword ..... Error! Bookmark not defined.
Important Tips ..... Error! Bookmark not defined.
Chapter 1 Introduction ..... Error! Bookmark not defined.
Technical Specifications ..... **Error! Bookmark not defined.**
Printer Specifications ..... **Error! Bookmark not defined.**
Power adapter specifications 6
Unpacking and parts inspection ..... **Error! Bookmark not defined.**
Chapter 2 Use ..... Error! Bookmark not defined.
Main components and their structure 9
Connecting the printer 12
Connecting power ..... **Error! Bookmark not defined.**
Connecting printers and computers ..... **Error! Bookmark not defined.**
Consumables installation ..... **Error! Bookmark not defined.**
Mounting ribbon ..... **Error! Bookmark not defined.**
Install the paper roll ..... **Error! Bookmark not defined.**
Adjust the position of the paper sensor ..... **Error! Bookmark not defined.**
Operation control ..... 28 **Error! Bookmark not defined.**
Power Switch 29
key panel 29
Advanced Features ..... **Error! Bookmark not defined.**
Backplane DIP switch ..... **Error! Bookmark not defined.**
INSTALL WINDOWS DRIVER ..... Error! Bookmark not defined.
Label editing software ..... 33.
Chapter 3 Maintenance ..... **34.**
Print head cleaning ..... 34.
Cleaning of the rubber rollers 35
Cleaning of the transfer channel and cleaning of the inside of the enclosure ..... 35.
Cleaning of the detector ..... 35.
Chapter 4 Troubleshooting **36**
LED indicator prompts 37
General Failure 38
Other unexplained failures 39
Appendix A: Port Specifications ..... **40.**
Appendix B: ASCII Table ..... **42.**

Preface

Dear users, thank you for choosing RFID label printer.

We will give you a detailed introduction on how to install and operate and maintain the printer, please read this manual before using it.

Radio Frequency Identification (RFID) is the abbreviation of Radio Frequency Identification.

Radio frequency identification that is radio frequency identification technology (Radio Frequency Identification, RFID), is a kind of automatic diagnosis technology, through the radio frequency way for non-contact two-way data communication, with radio frequency way to record media (electronic tags or radio frequency card) for reading and writing, so as to achieve the purpose of identifying the target and data exchange, its is regarded as the 21st century the most Development potential information technology one of.

Important Tips:

The thermal print head is a part that is easily damaged due to its electromechanical characteristics.
Damage to the print head caused by improper maintenance and use is not covered by the warranty.
Please note the following to avoid damage to the print head during its normal service life.
1. Do not scratch the print head with hard objects.
2. To avoid corrosion of the print head or electrostatic discharge from the human body, do not touch the surface of the print head with your hands.
3. In order to avoid corrosion of the print head, do not let the print head touch any liquid or wet objects.
4. To avoid corrosion of the print head, wipe the print head surface only with anhydrous ethanol during maintenance.
5. Please use high quality consumables due to.
(1) If the label with paper dust, sand and dust particles and glue and other foreign objects, these substances in the printer work process is very easy to scratch the print head.
(2) If the ribbon contains chemicals such as sodium (Na) ions, potassium (K) ions, or chloride (Cl) ions that corrode the print head, the print head will be easily damaged.

Therefore, please make sure to confirm the quality of the consumables before purchasing them to avoid damage to the print head caused by the quality of the consumables. Print head damage caused by poor quality consumables is not covered by the warranty.

Chapter 1 Introduction

Technical Specifications

Printer Specifications

Model	203DPI	300DPI
Printing method	Thermal / Thermal Transfer	
Resolution	203 DPI (8 dots/mm)	300 DPI(11.8 dots/mm)
Maximum print speed	8 IPS(203.2 mm/s)	6 IPS(152.4 mm/s)
Maximum print width	4.25″ (108 mm)	4.15″ (105.6 mm)
Maximum print length	157.5″ （4000mm）	
Memory	8 MB Flash ROM, 16 MB SDRAM	
Label roll size	Width: 4.5″ (116 mm) max, 0.8″ (20 mm) min Outer diameter: max. 5″ (127 mm) Inner diameter: min. 1″ (25.4 mm)	
Label thickness	0.06～1mm (0.002″ ～0.04″), Including the thickness of the backing paper, Printable flexible metal-resistant labels	
Ribbon size	Outer Diameter (Max): 2.75″ (70 mm) Inner Diameter: 1″ (25.4 mm) or 0.5″ (12.7 mm) Maximum width: 4.3″ (110 mm) Maximum length: 300 m	
Paper testing methods	Movable Reflective and Transmissive	
RFID function	Integrated high performance RFID reader/encoder supporting UHF EPC Gen 2/ISO 18000-6C compatible tags	
barcode	Code 39, Code 93, Code 128, Codabar, EAN-8/13/128, Interleave 2 of 5, UCC-128, UPC A/E 2 and 5 add-onetc. 1D barcode; Data Matrix, MaxiCode, PDF417, QR etc., 2D barcode	
Interface	RS-232 Serial port, USB Interface, Network port (optional)	
input power	24 VDC, 2.5 A	
Weight	2.62 KGS	
Body size	Width 208 x Long310 x High195 mm	

Working Environment	Temp.: 0° C ~ 40° C (32° F ~ +104° F) Relative Humidity: 5% ~ 85% No condensation
Storage Environment	Temp: -40° C ~ 60° C (-40° F ~ +140° F) Relative Humidity: 5% ~ 85% No condensation
Select Accessories	Wired network card, automatic paper stripper

RFID UHF Module Features

1. Multiple function modes are optional: printing or writing after reading the label, printing and writing at the same time, only printing, only reading and writing;
2. Label protocol: EPC Class1 Gen2 (ISO 18000-6C);
3. Support flexible anti-metal labels;
4. Machine intelligent learning algorithm to avoid miswriting label data, and bad labels will automatically print marks;
5. When reading and writing RFID tags, it has no effect on the printing quality, and the printing is clear and continuous without white lines;
6. One-key calibration of RFID tags, visualization of signal range;
7. Provide a full-featured secondary development package, which can cooperate with the application development of Windows, Linux, Kylin and other domestic systems

Power Adapter Specifications

enter	Communication 100~240V, 47~63 Hz
Output	DC 24 V, 2.0~2.5 A
Working Environment	0° C ~ 40° C

Unpacking and Accessory Inspection

Please keep the box and all packing materials in a safe place for future shipment or storage of the printer. Please first check the printer for damage in transit. Please inspect the box, the exterior of the printer, and the accessories for damage. If shipping damage has occurred, please file a written claim with the carrier immediately.

Please check that the printer is complete with all accessories. Please check against the packing list and contact the seller immediately if any accessories are missing.

Packing list（Please refer to Figure 1）：

1. Printers……..... 1pcs
2. Power adapter…….. 1pcs
3. Carbon Belt Bushing…… 2pcs
4. Paper scrolls…….. 1pcs
5. Paper roll stopper…….. 2pcs
6. Large core bushings…….. 2pcs

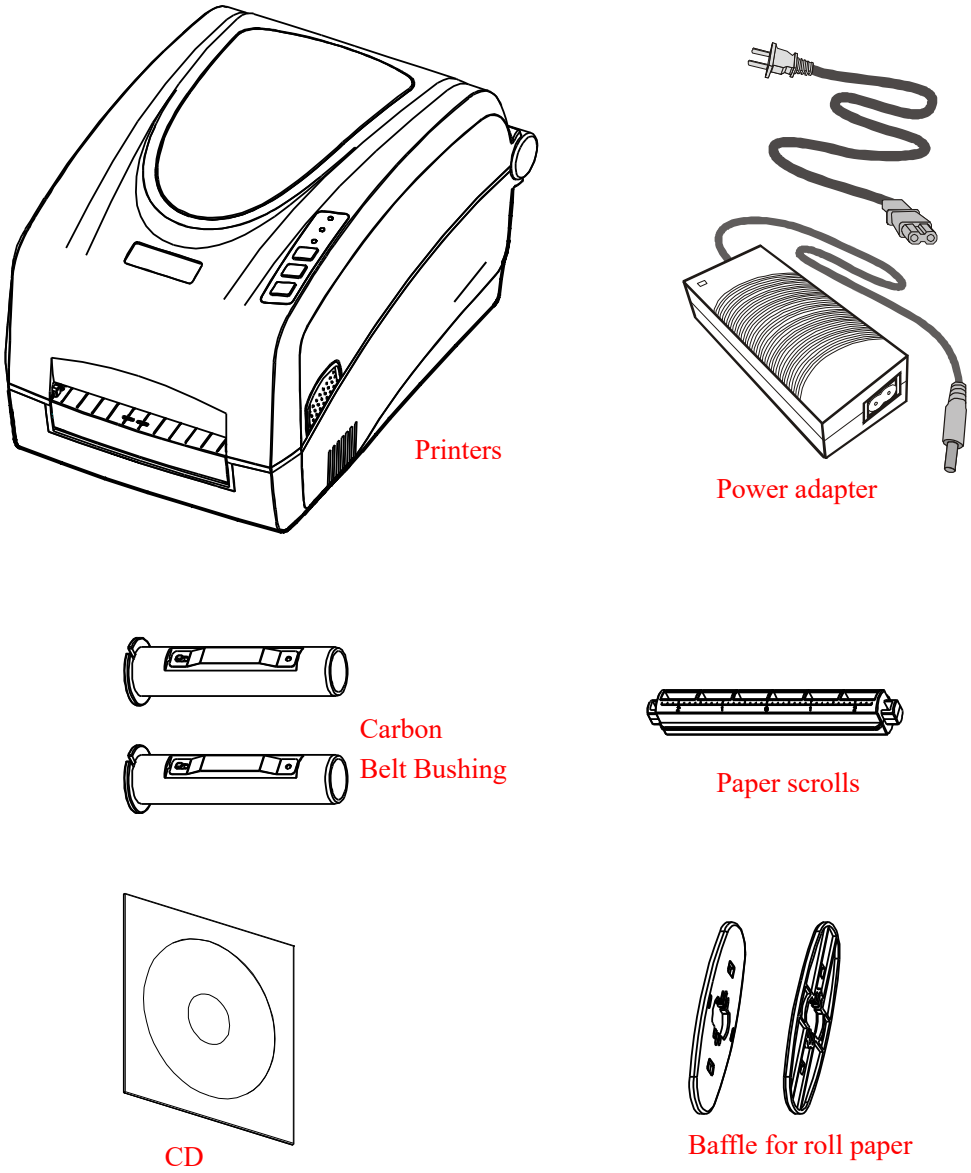


Figure 1: Printer and accessories

Chapter 2 Use

Before installing and using the printer, please pay attention：

1. Make sure there is enough space above the printer to easily lift the top cover；
2. The distance between the printer and the computer does not exceed the length of the communication line connecting the two.

Main components and their structures

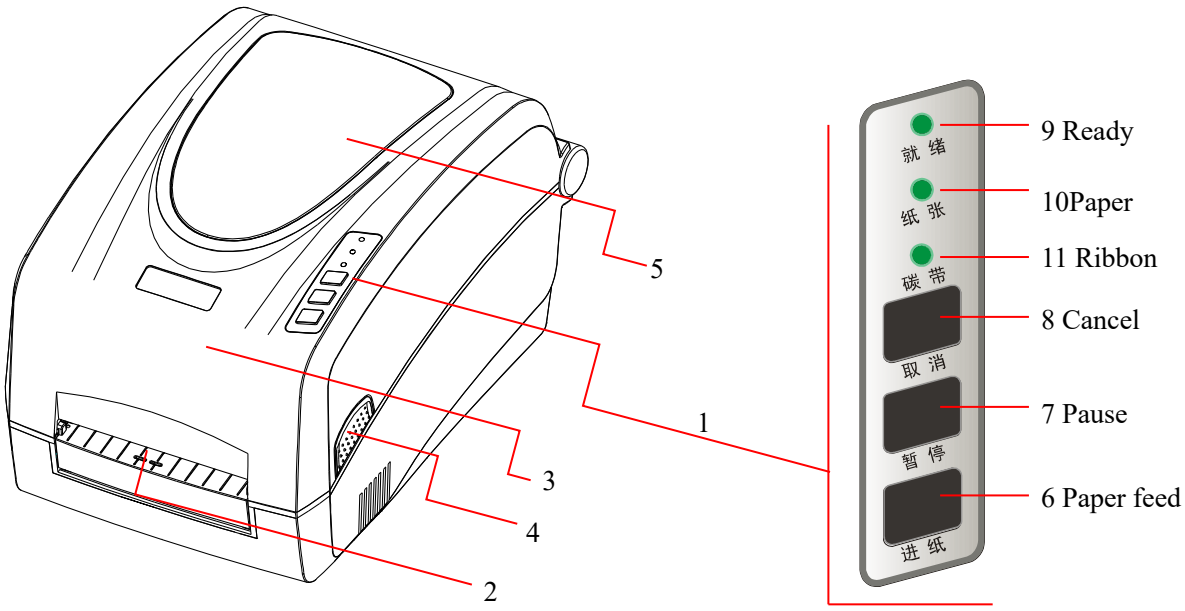


figure 2

1. Key panel	2. Paper exit window	3. Top cover
4. Top cover snap button	5. Consumables viewing window	
6. "Paper Feed" button	7. "Pause" button	8. "Cancel" button
9. "Ready" indicator	10. "Paper" cue light	11. "Ribbon" indicator light

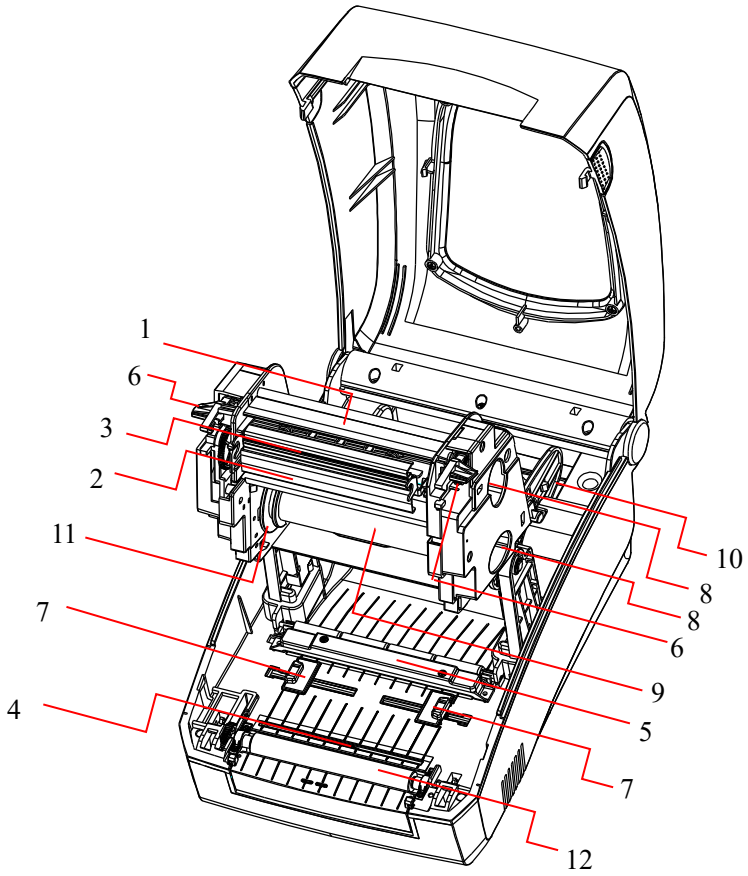


Fig. 3

1．Print Head Module	2．Print head holder	3．Print head
4．RFID antenna and reflective detector	5．Penetrating detector	6. Locking buckle
7．Clamped paper cover	8．Carbon strip release rod	9.Ribbon supply bin
10．Paper roll bin	11. Supply Ribbon Wheel	12. Rubber roller

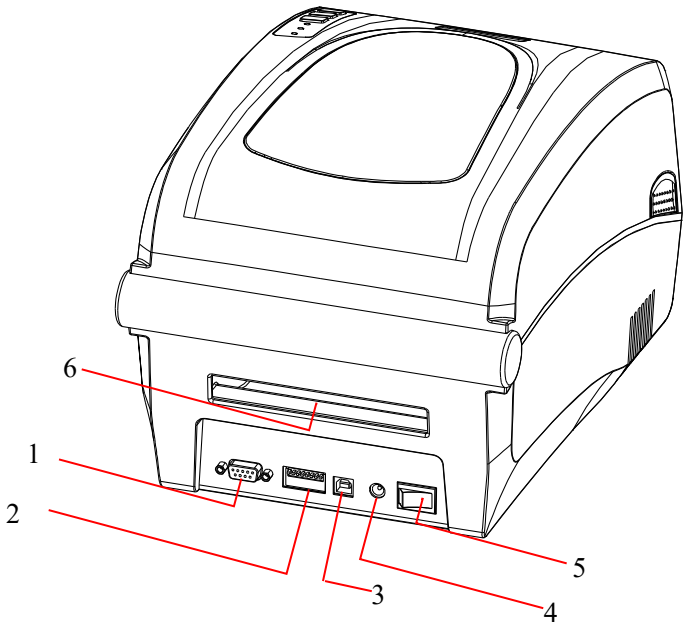


Fig. 4

1. Serial port
2. DIP switch
3. USB interface
4. Power connector
5. Power Switch
6. External paper roll feeding window

Note: The above diagram is only to mark the location of the various interfaces and switches, and does not mean that each printer contains all of the above configurations。

Connecting the printer

Connecting power

Warning.

(1) Be sure that you are currently using the power adapter supplied with the printer or approved by the manufacturer with an output voltage of 24 VDC.

(2) Check the power adapter to ensure that its input voltage is appropriate for your current usage environment.

(3) Do not start the power supply to use the printer in a humid environment, as this may cause serious personal injury.

1. turn off the printer's power (make sure the printer's power switch is in the "○" position).
2. plug the connector on the output side of the power adapter into the power connector on the rear of the printer.
3. Plug the AC power cord at the input of the power adapter into the AC outlet.

Connecting printers and computers

Note: The printer must be powered off before connecting the communication cable.

RFID tag printer has USB, RS-232 serial port and other ports, you can choose any interface to connect with your computer.

1. the printer automatically identifies the port to communicate with the computer.

2. the current printer port settings can be read from the self-test information (please refer to Chapter 2 Operation Control - Advanced Functions - Self-Test).

3. for information on the port signal, refer to Appendix A, "Port Specifications".

4. The following measures can be taken to minimize the electrical noise of the cable.

a. Keep the length of the data cable as small as possible (1.8 meters is recommended).

b. Do not allow the power cable to wrap around the communication cable

Consumables Installation

When the printer is working in the thermal transfer printing method, it needs to install both ribbon and label paper rolls as consumables.

When working in the thermal printing mode, only the label rolls need to be installed.

The installation channels for ribbon and label are shown in the figure below, please read the subsequent sections "Installing Ribbon" and "Installing Labels".

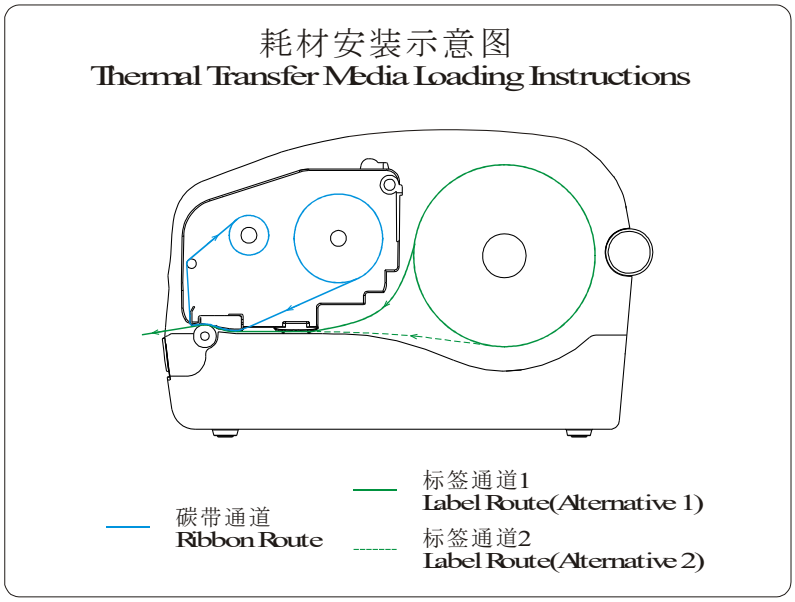


Fig. 5

Mounting ribbon

Note: (1) Please make sure the ribbon you are using is an external ribbon.（Ink side：Out）；

（2）When the ribbon width is less than 110mm, place the ribbon in the center of the ribbon sleeve according to the scale on the ribbon sleeve.

（3）This step can be ignored when printing thermal paper.

1. Press the top cover snap buttons on both sides to lift the top cover of the printer (Figure 5-1).
2. simultaneously pull the locking buttons on both sides to loosen the print head module.
3. lift the print head module to expose the ribbon supply compartment (Figure 5-2).
4. disassemble the ribbon roll and the empty roll core (Figure 5-3).
5. Insert a ribbon sleeve into the paper core of the ribbon in the direction shown in the figure (Figure 5-3).
6. Snap the ribbon roll into the ribbon supply bin, and the two tabs on the left side of the ribbon sleeve should snap into the tabs of the supply ribbon wheel (Figure 5-4).
7. lower the print head module, then roll the ribbon at the front onto the empty roll core (Figure 5-5).
8. Insert the other ribbon bushing into the empty core (Figure 5-3).
9. Snap the empty core into the ribbon recovery bin, and the two tabs on the left side of the ribbon sleeve should snap into the tabs of the recovery ribbon wheel (Figure 5-6).
10. turn the recovery ribbon wheel to make the ribbon taut.
11, while pressing both sides of the print head module until the locking buckle locked, you can hear the "click" sound.

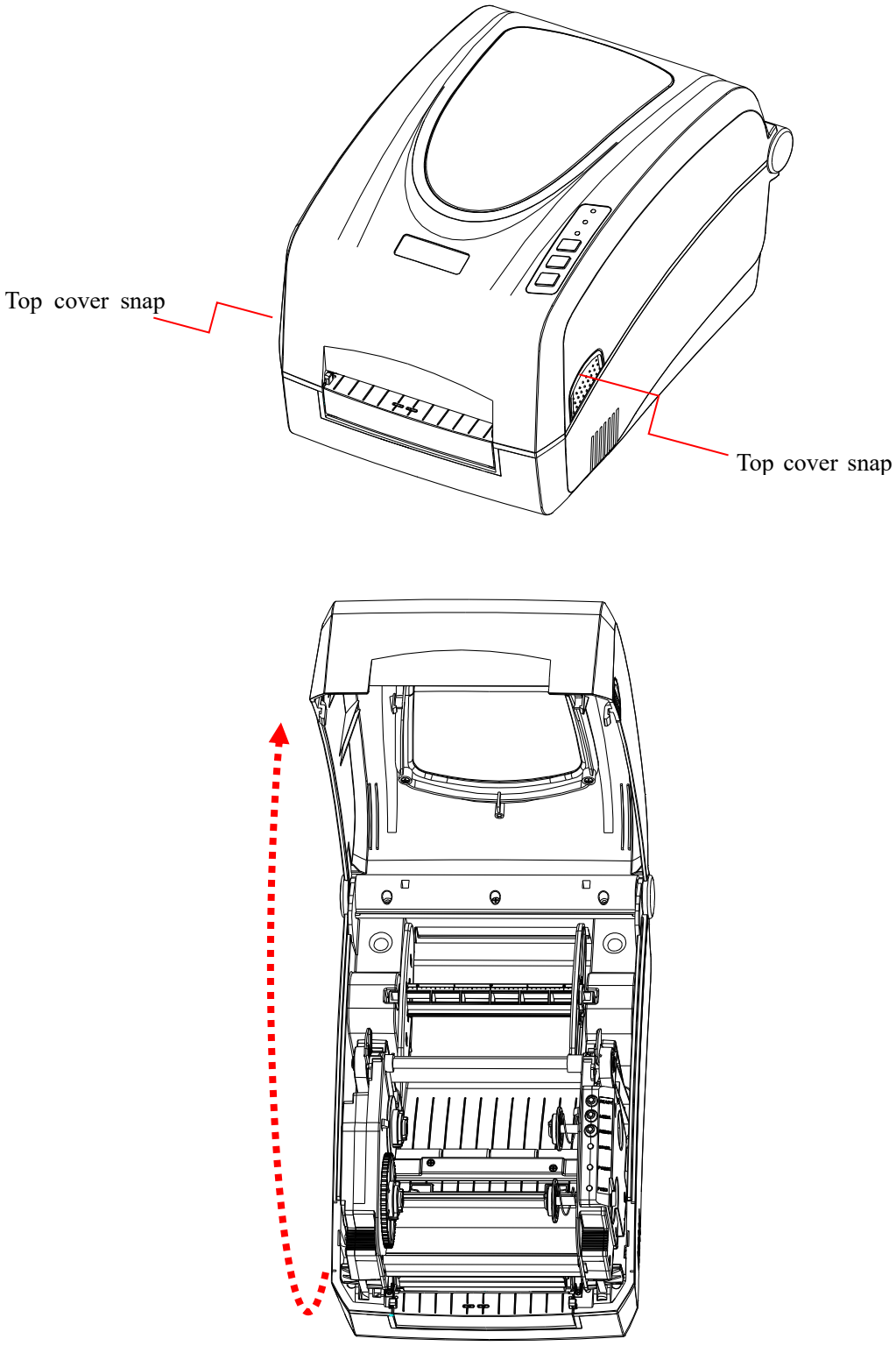


Figure 5-1

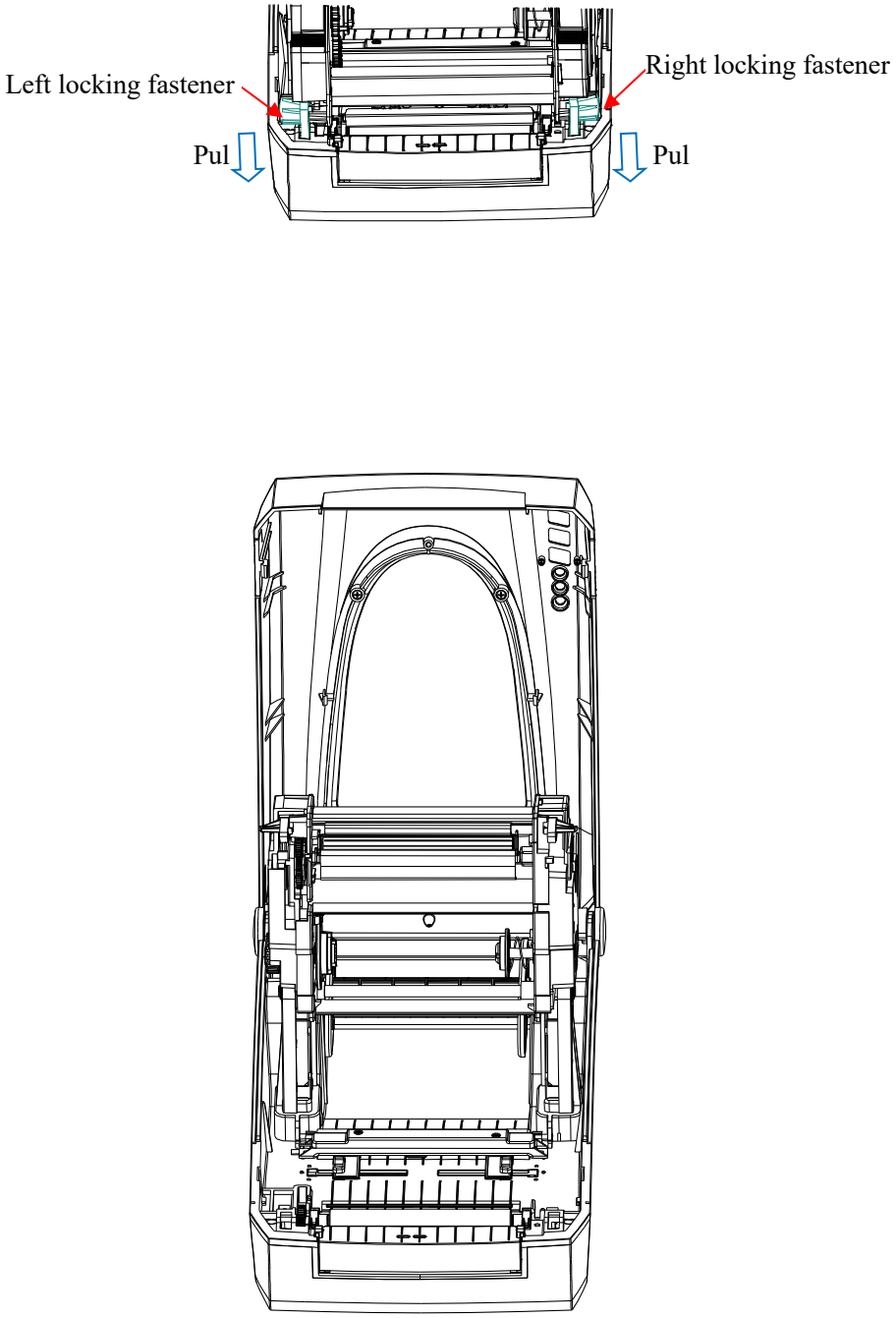


Figure 5-2

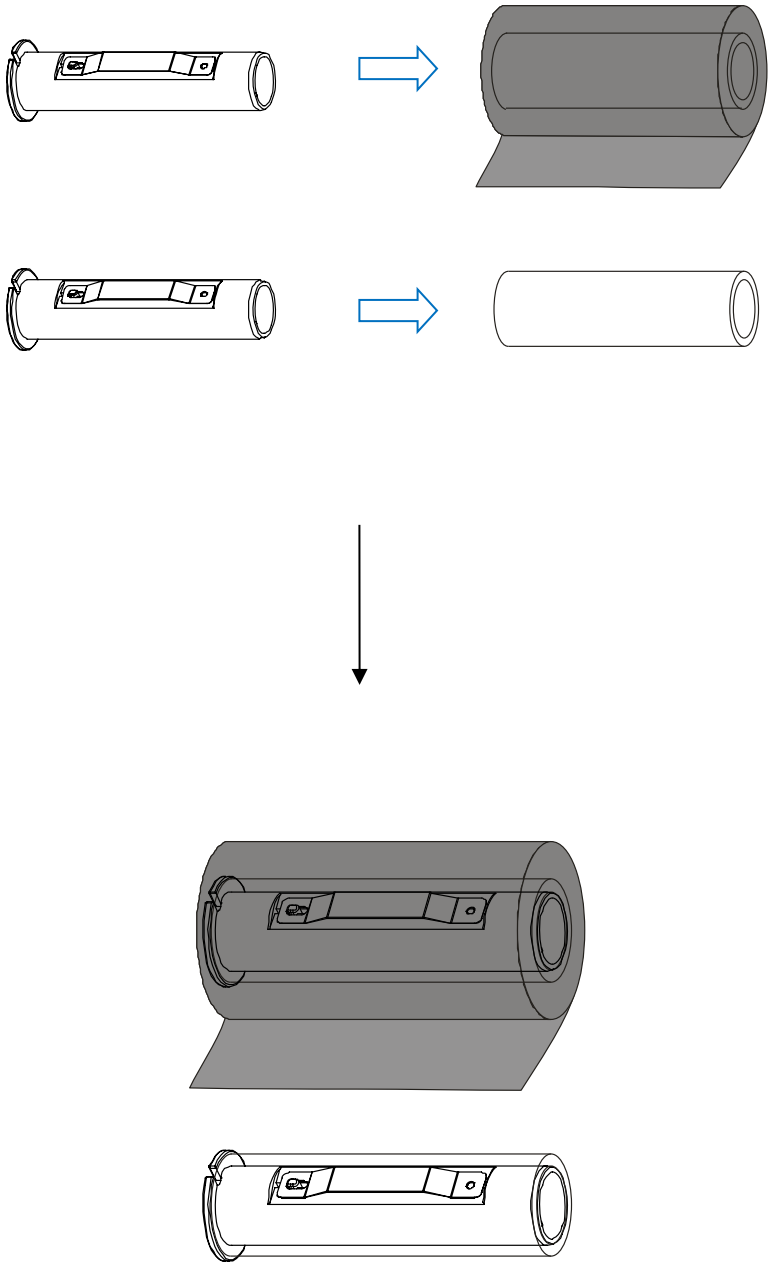


Figure 5-3

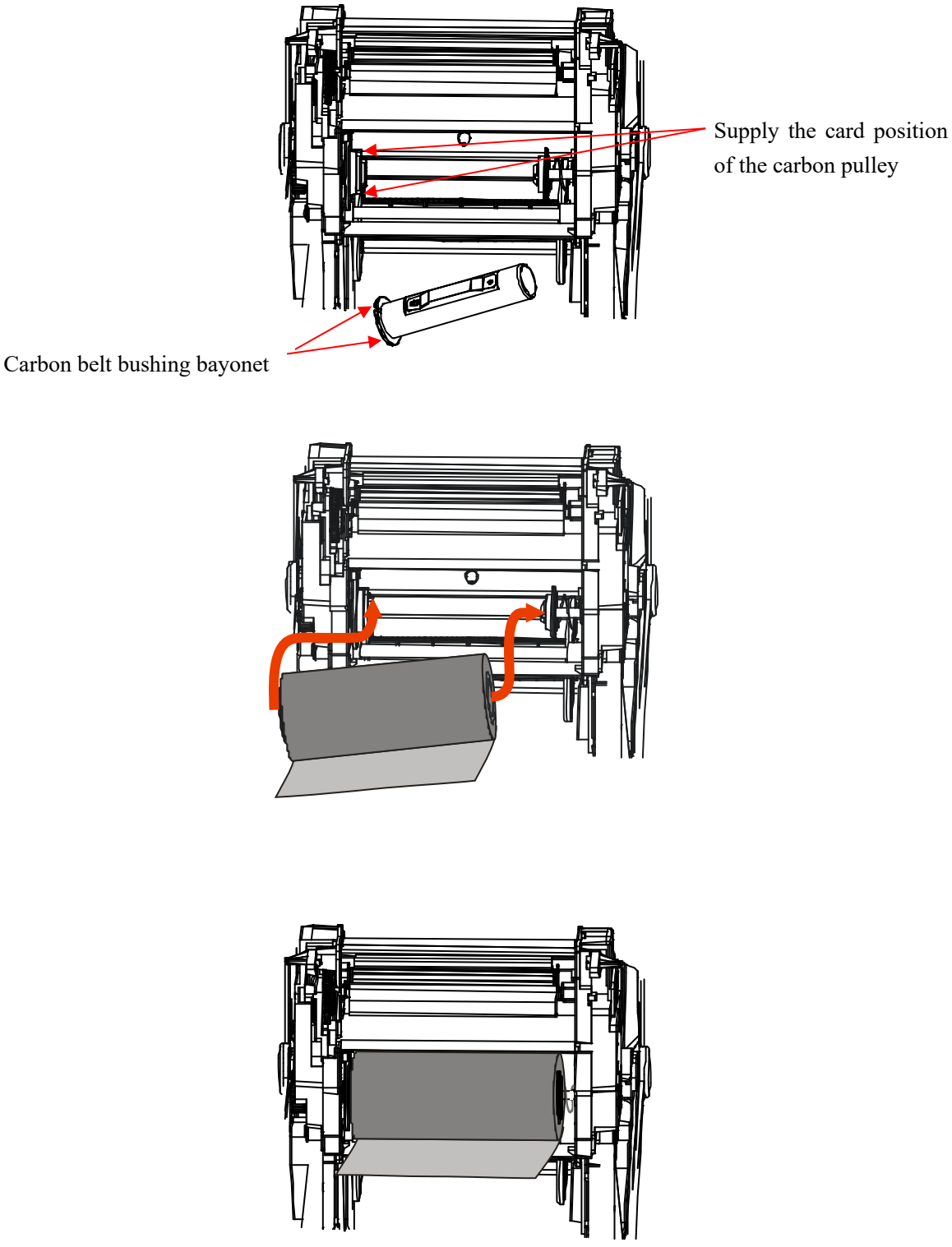

Supply the card position of the carbon pulley
Carbon belt bushing bayonet

Figure 5-4

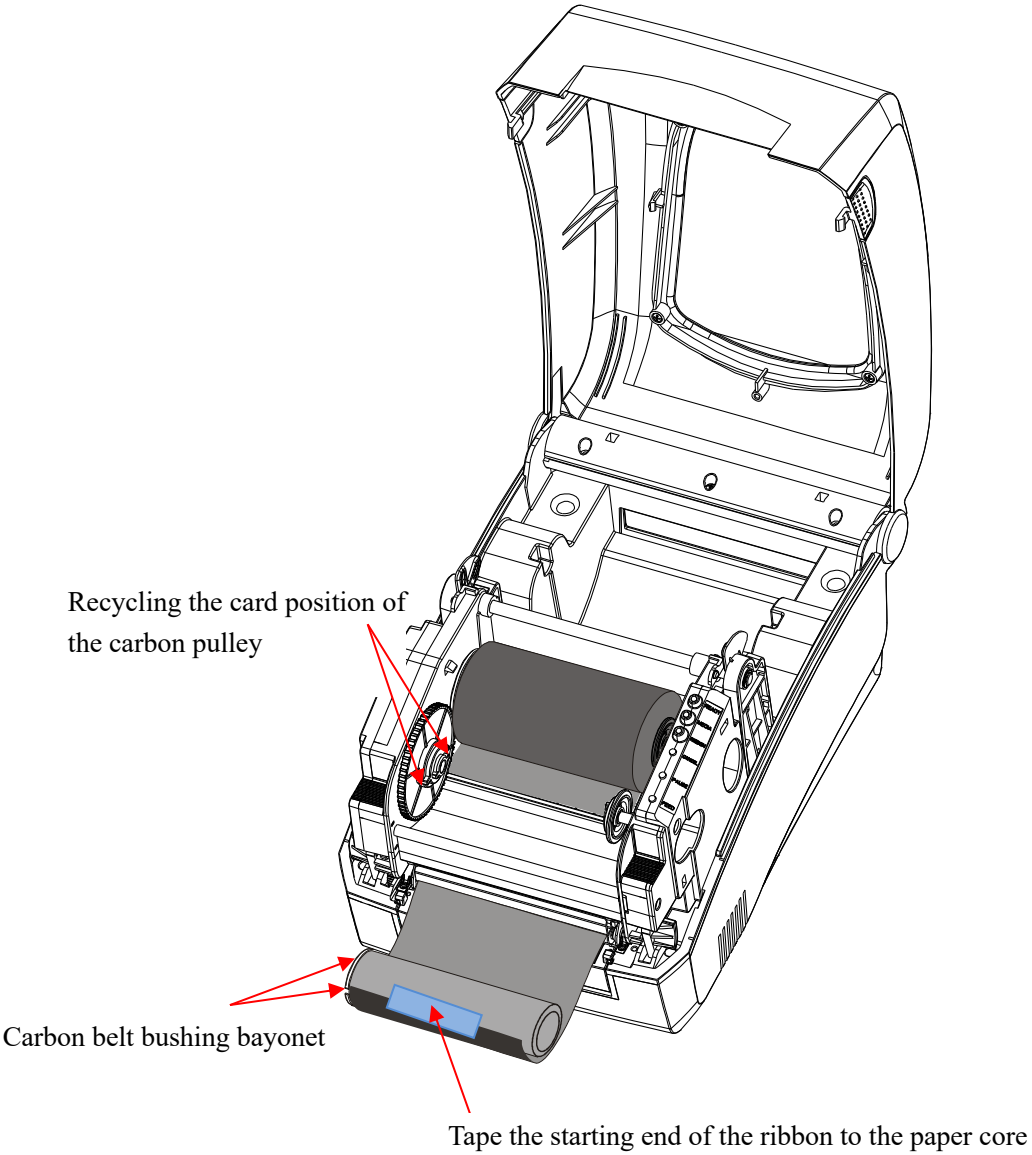
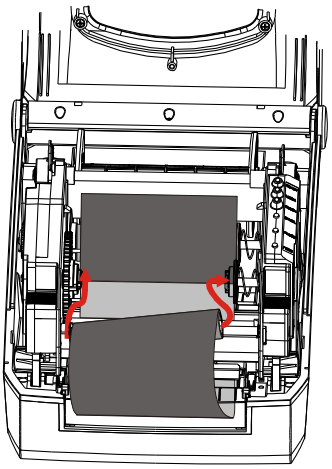

Recycling the card position of the carbon pulley
Carbon belt bushing bayonet
Tape the starting end of the ribbon to the paper core

Figure 5-5



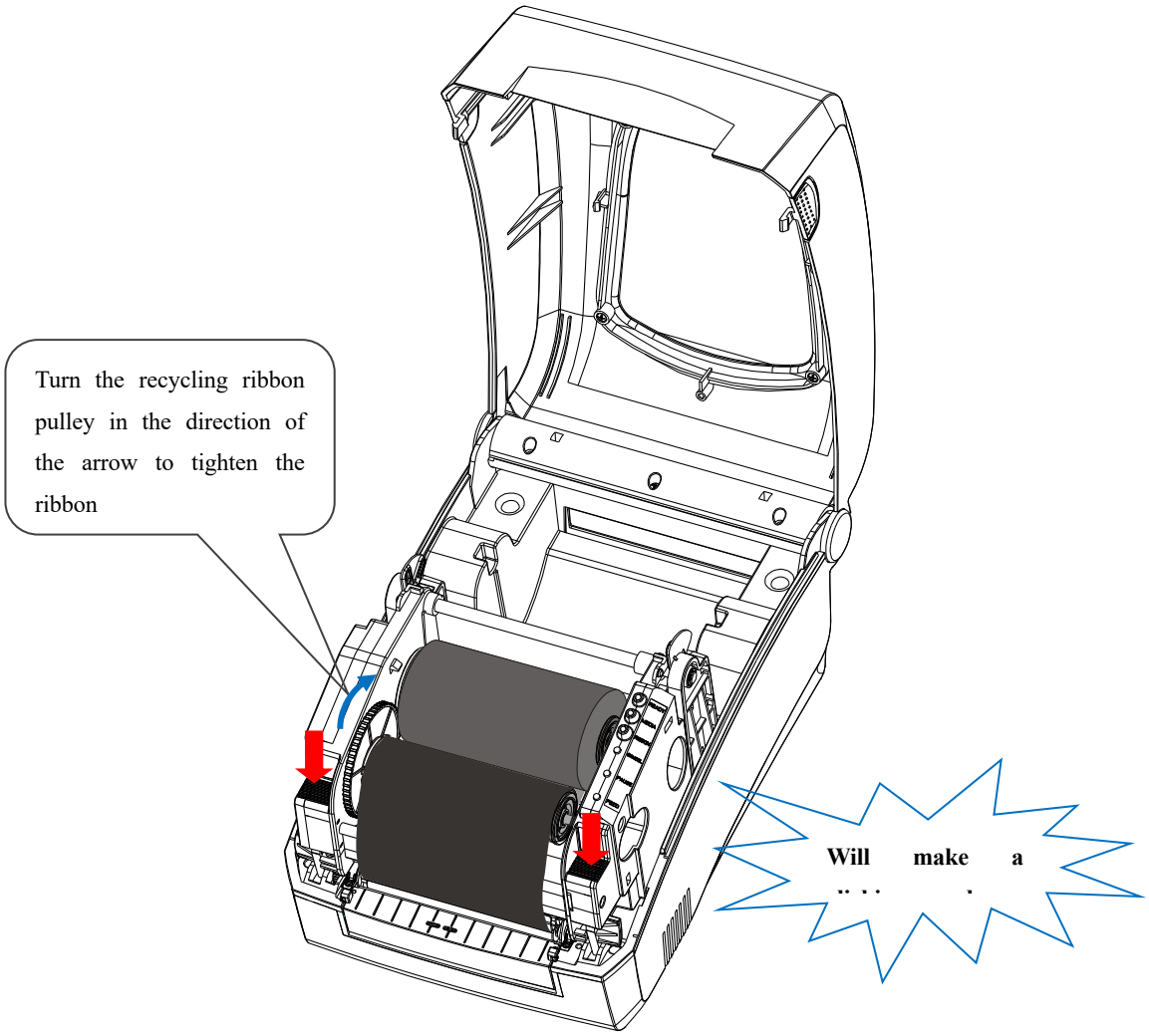

Turn the recycling ribbon pulley in the direction of the arrow to tighten the ribbon
Will make a

Figure 5-6

Install the paper roll

The RFID label printer can operate in three different modes: Standard Mode, Peel Mode and Cutter Mode.
-- In standard mode, printed labels can be disposed of manually;
-- In peel-off mode, after each label is printed, the label is automatically peeled off;
-- In the cutter mode, the label is automatically cut off after the label is printed.

Paper roll installation in standard mode.

1. press and hold the top cover snap buttons on both sides to lift the top cover of the printer to expose the paper roll compartment (Figure 6-1).
2. Remove the paper roll spindle.
3. Put the paper roll onto the paper spool (for a 3-inch large core paper roll, put the paper spool onto the paper roll stopper) (Figure 6-2).
4. put the two paper roll stoppers into the paper roll spool from both sides, with the smooth side facing the paper roll.
5. return the paper spool with the paper roll to the paper roll compartment.
6. place the paper roll in the center according to the scale markings on the paper spool.
7. Place the two baffles against the paper roll.
8. Pull the locking clips on both sides to release and lift the print head module.
9. Pass the label under the paper guide shaft and through the paper detector, and place the two paper cover sheets against the edge of the label, but do not squeeze the label to deform it (Figure 6-3).
10. allow the label to pass over the adhesive roller and center the label.
11. simultaneously press the print head module until the locking lever locks, at which point you can hear a "click" sound (Figure 6-4).
12. Close the top cover, press the "feed" button, the printer will automatically position the paper to the next label starting position.

Instructions for roll installation in peel mode will be provided with the peeler module.

The paper roll installation instructions in cutter mode will be provided with the cutter module.

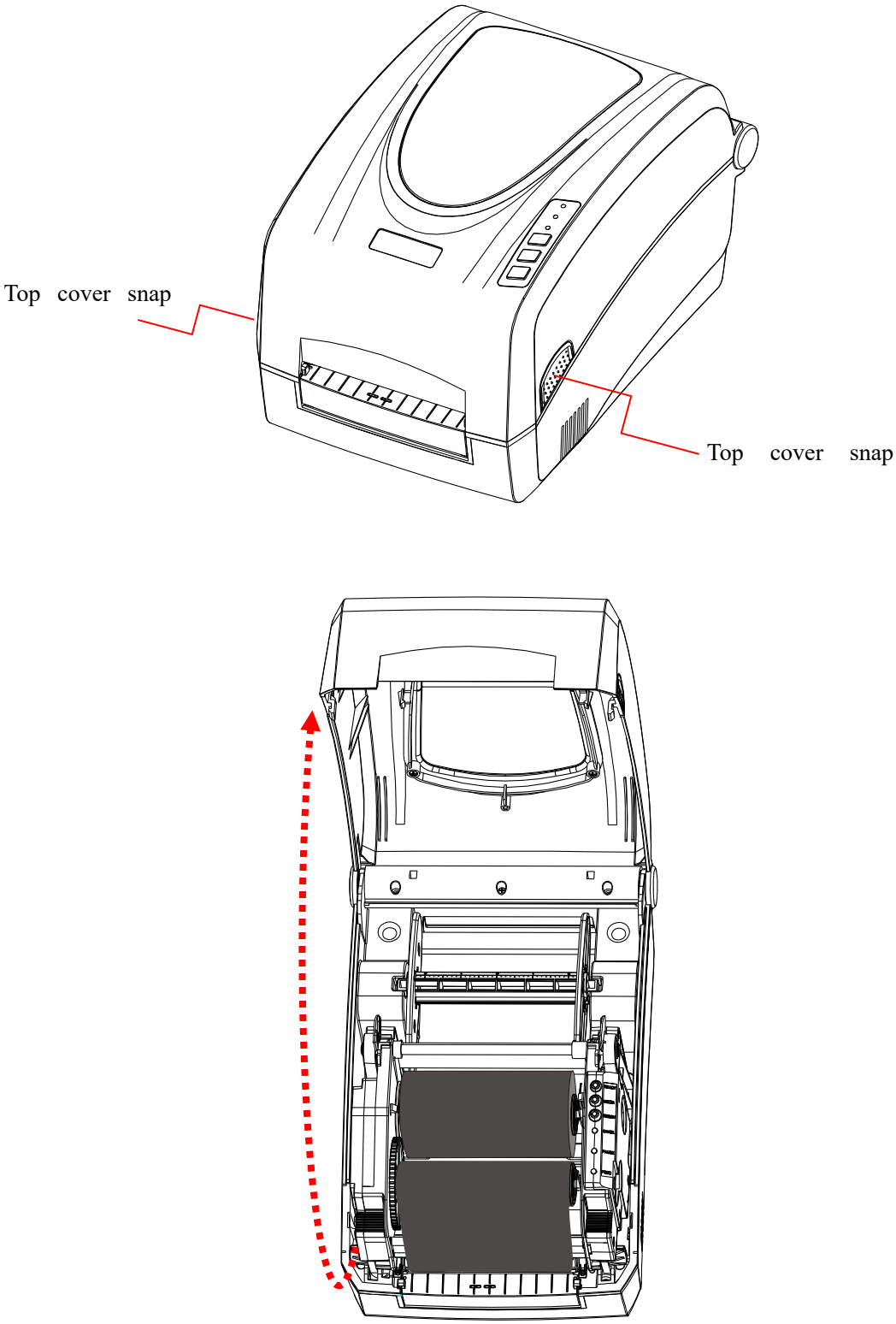


Figure 6-1

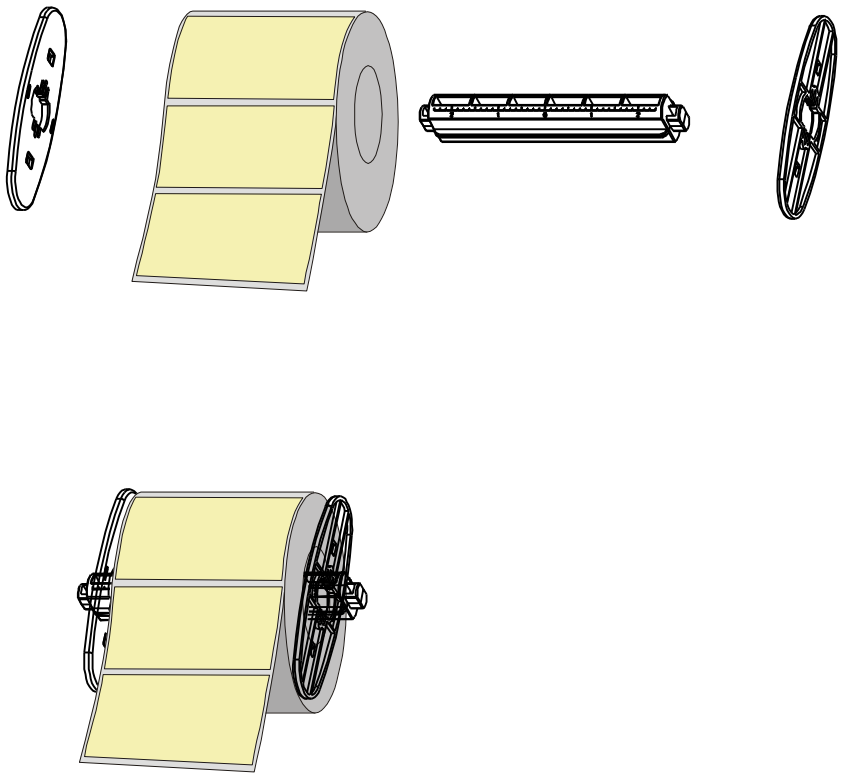


Figure 6-2

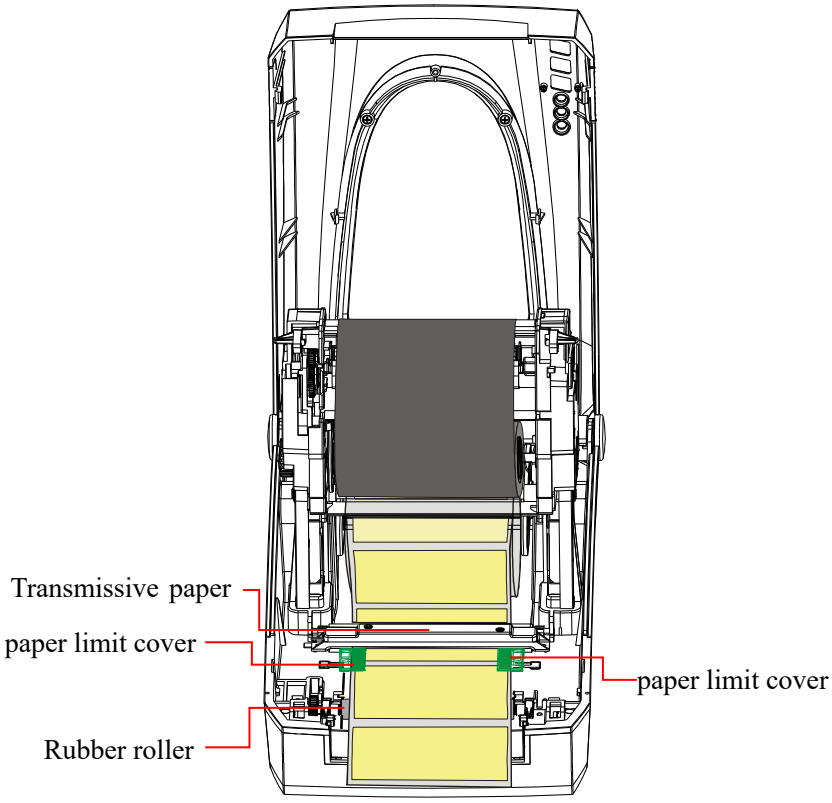

Transmissive paper
paper limit cover
Rubber roller
paper limit cover

Figure 6-3

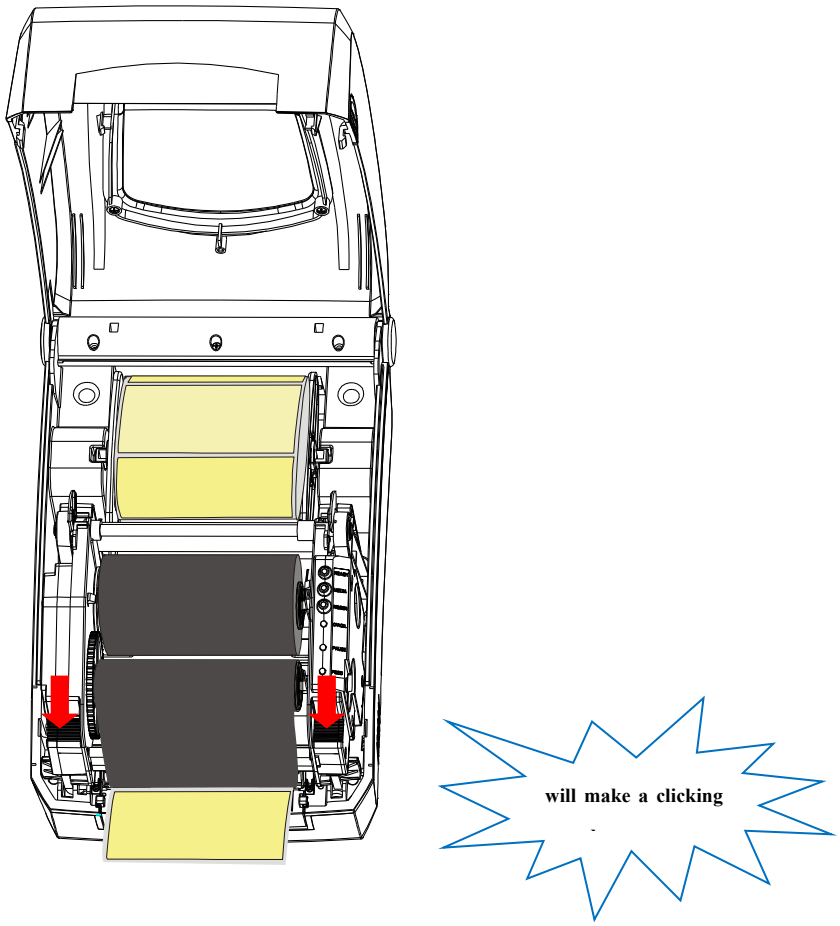


Figure 6-4

Adjust the position of the paper sensor

Note: Only the position of the reflective paper detector can be adjusted by the user; the position of the penetrating paper detector is fixed before leaving the factory. It has two gears, and the default is the central position. If you need to adjust the position of the penetrating sensor Please contact the manufacturer's technical staff for guidance.

1. Press and hold the top cover snap buttons on both sides to open the top cover of the printer (Figure 7-1);
2. Pull the locking buckles on both sides, release and lift the print head module to expose the reflective paper detector;
3. Use a non-conductive material such as a glue pen to move the reflective paper detector left and right to an appropriate position (Figure 7-2); please refer to Figure 7-3, Figure 7-4 and Figure 7-5 to determine the position of the paper detector.

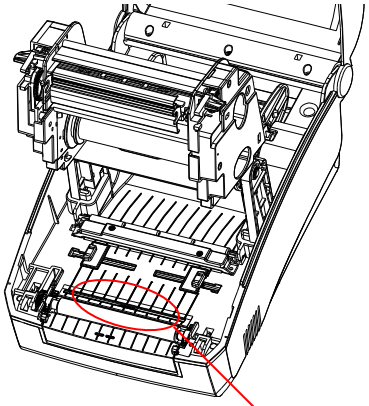


Figure 7-1

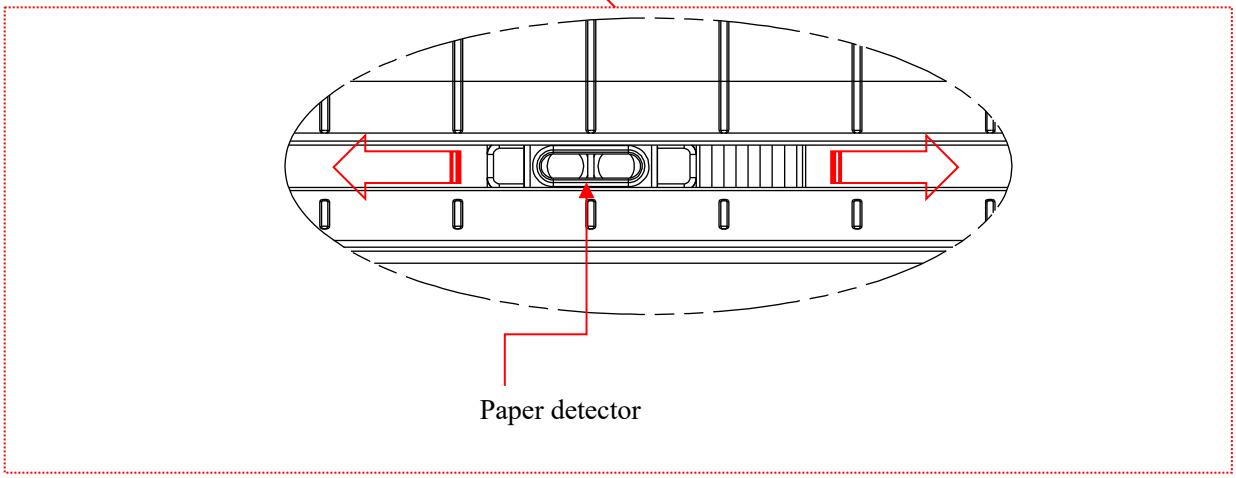


Figure 7-2

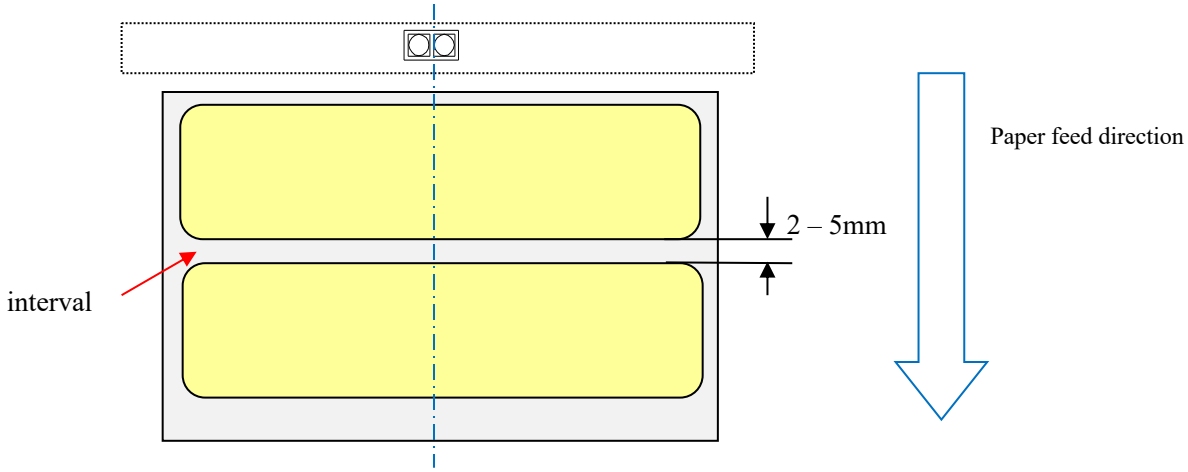


Figure 7-3

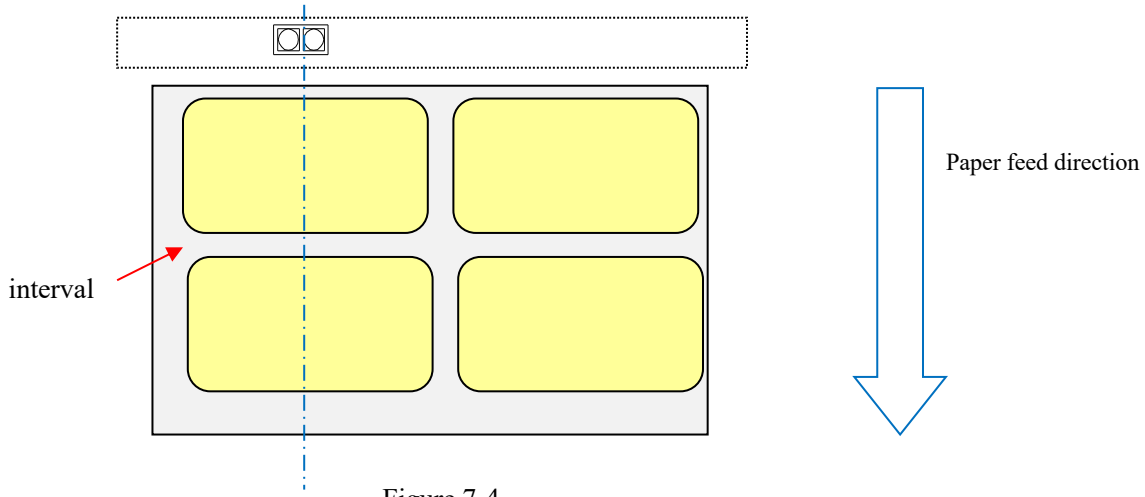


Figure 7-4

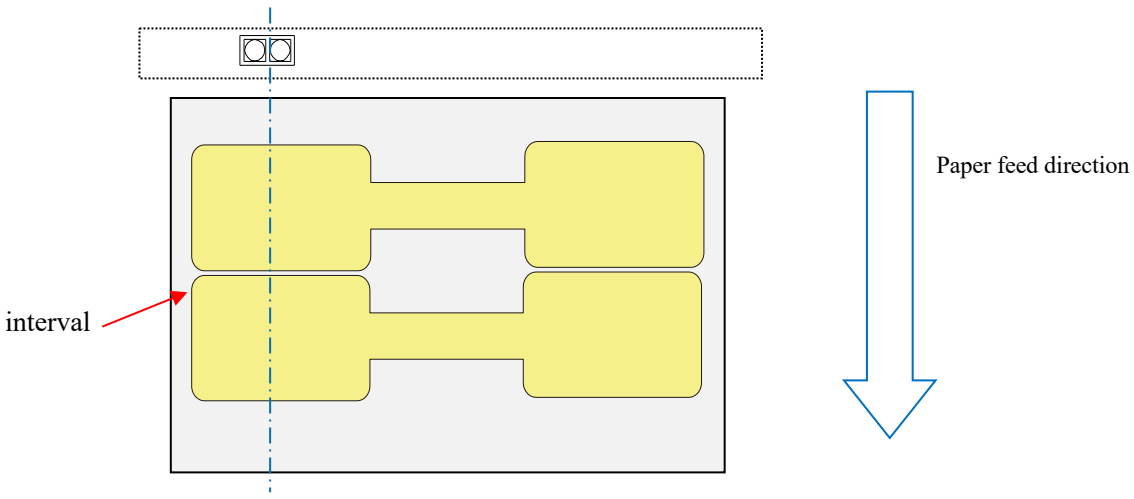


Figure 7-5

Operation control

Power Switch

Turn the printer's power switch on or off, turn the switch to the left to the "—" position - turn on the power,

Flip the switch to the right to the "〇" position - to turn off the power.

Key panel

"ready"

"paper"

"Ribbon"

Cancel

Pause

paper feed

The RFID label printer top cover key panel includes.

- Three LED indicators: "Ready", "Paper" and "Ribbon"
- Three buttons: "Feed", "Pause" and "Cancel"

LED Indicators

Three LED status indicators show the operational status of the printer (refer to Chapter 4 for fault indications).

Ready

--Always on - the machine is in normal standby mode.

-Blinking - when the "Ready" light is blinking alone, the printer is in a suspended printing state.

-blinking - cross blinking with the "paper" indicator means RFID read/write error or signal calibration error.

-blinking - when blinking simultaneously with the "paper" indicator, the label cannot be detected.

-blinking - blinking at the same time as the "ribbon" indicator means that the ribbon cannot be detected.;

Paper

- always on - the paper detector is operating normally.

- Blinking - when blinking alone, data is being received.

- Blinking - when crossed with the "ready" indicator, it means RFID read/write error or signal calibration error.

- Blinking - when blinking simultaneously with the "ready" light, the tag cannot be detected;

Ribbon

- - Always on - the printer is working in thermal transfer mode (the ribbon needs to be installed);

- indicator light off - the printer is working in thermal mode (no ribbon is required);

- Blinking - when the Ready light blinks at the same time, the ribbon cannot be detected.

The light combinations indicate the printer status as listed in the table below:

○ : lndicator light off

● : The indicator light is always on

✳ : lndicator flashes

light status	printer status
Ready **Paper** Ribbon	Standby for thermal transfer printing

Ready **Paper** Ribbon	Standby for thermal printing (For the setting of thermal printing method, please refer to the chapter "DIP switch on the back panel")
Ready **Paper** Ribbon	Thermal transfer printing method of: 1、 pause; 2、 data error;
Ready **Paper** Ribbon	Thermal transfer printing method of: 1、pause; 2、data error;
Ready **Paper** Ribbon	"Unable to detect label" for thermal transfer printing"
Ready **Paper** Ribbon	"Ready" and "Paper" flash alternately: RFID read and write errors or signal calibration errors
Ready **Paper** Ribbon	"Unable to detect label" for thermal printing
Ready **Paper** Ribbon	"No Ribbon Detected" for Thermal Transfer Printing
Ready **Paper** Ribbon	Enter the button advanced function response state

button

There are three buttons on the button panel of the RFID label printer, and each button has two functions.

button	Basic Functions	Advanced features (see below)
"Paper Feed"	- Paper Feed	Calibration -- Calibrating RFID Tags
"pause"	- Pause printing - The printer resumes printing after pressing the button again	Self-test -- the printer performs a self-test and prints the self-test information
"Cancel"	- Clear print jobs - Restore the printer to working condition after troubleshooting	Reset -- restores factory default settings

Advanced Features

Calibrate RFID tags

In the following two cases, please do the "calibrate RFID label" operation, so that the printer can accurately locate the RFID label:

- when the RFID tag is installed for the first time;
- When replacing RFID tags of different specifications.

Steps:

1. When the printer is in standby, press and hold the "Feed" button;
2. After about 5 seconds, the three LED indicators will flash at the same time, the printer will automatically feed the paper, and then release the "feed" button;
3. After the LED indicator stops flashing and returns to the normal lighting state, it means that the calibration of the RFID tag is completed;
4. Run LabelSoft label editing software, after inserting the RFID encoder, you can set the data written to the label。

self-test

1. Press and hold the "Pause" button for about 5 seconds, the three LED indicators will flash at the same time; release the "Pause" button;

2. The printer will print out the self-test information, and the LED indicator will stop flashing and return to the normal lighting state;

3. The following information will be listed in the self-test information:

- **Printer model and product number**
- **Software version information**
- **Hardware parameter settings and status**
- **Thermal/thermal transfer mode**
- **Font list**

Reset - restore to factory defaults

1． The following actions can reset the printer to factory default settings:

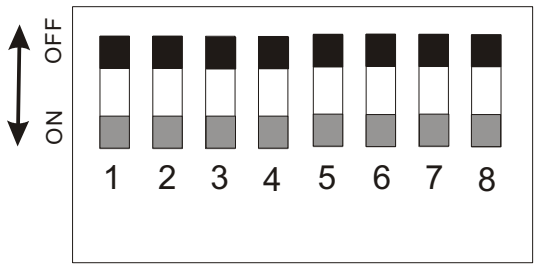
In the standby state, press and hold the "Cancel" button, after about 5 seconds, the three LED indicators will flash at the same time (if you don't want to do any operations on the printer at this time, release the "Cancel" button, and after 5 seconds After a few seconds, the printer will automatically return to the normal state);

2. Release and press the "Cancel" key again;

After the LED indicator stops flashing, it returns to the normal lighting state, and the reset is completed.。

Note: The parameters of the number of printed labels and the printed length cannot be reset.

Backplane DIP switch



NOTE: Turn off the printer power before changing the DIP switch settings.

DIP switch terminal	Function Description	Remark
1	ON -- Turn on thermal OFF -- Heat transfer printing method is effective	Printing method settings Factory setting：OFF
2	ON – Turn off the RFID function OFF – Enable RFID function	RFID Function settings Factory setting：OFF
3	ON -- The cutter mode is valid OFF -- Cutter mode is invalid	Knife settings Factory setting：OFF
4	ON -- Paper stripping mode is effective OFF -- Paper stripping mode is invalid	Paper stripper setting Factory setting：OFF
5	ON -- Penetrating paper detector OFF -- Reflective Paper Detector	Paper detector selection Factory setting： ON
6	ON -- Allow IP settings OFF -- Forbid IP settings	IP address settings Factory setting：OFF
7 8	**7** **8** OFF OFF – 9600,n,8,1 ON OFF –19200,n,8,1 OFF ON – 38400,n,8,1 ON ON – 57600,n,8,1	Serial interface parameter setting Factory setting： OFF | OFF

Label editing software

Each RFID label printer is randomly distributed with a complete set of LabelSoft label editing software, which supports reading and writing label data and printing at the same time. Please contact the supplier to obtain the software.

Chapter 3 Maintenance

Warning.
1. Before performing any maintenance on the printer, the printer must be powered off;
2. the print head may be highly heated and care must be taken when handling the print head; wait one minute to allow the print head to cool down before cleaning to avoid burns.
3. Use only anhydrous alcohol of 99% purity or higher for cleaning.

During normal printer use, adhesive and backing from labels or ribbons are left on the printer components, including the print head and adhesive rollers, along the transport path. Over time, dust and debris will gradually accumulate. Failure to clean the print head, rollers and transport path can result in unintentional label loss, label jamming and printer damage. Therefore, it is necessary to clean the printer frequently.

Print head cleaning

To ensure print quality and reduce damage to the print head from paper dust, sand particles, and dirt such as glue, the print head should be cleaned at least once after using a roll of ribbon:

1. turn off the printer power.
2. lift the printer top cover and print head module.
3. remove the ribbon.
4. wipe the print head with a cotton swab soaked in anhydrous alcohol. After wiping to see if there are black traces or other adhesions on the swab, repeatedly clean until the swab no longer appear stains, the print head has been cleaned.

Cleaning of rubber rollers

If there is dirt on the adhesive roller should be removed immediately, otherwise it will affect the print quality and damage the print head:

1. turn off the printer power.
2. scrub the rollers with a cotton swab or soft cloth soaked in anhydrous alcohol.
3.Turn the rollers by hand for thorough cleaning。

Cleaning of the transfer channel and cleaning of the inside of the enclosure

Keeping the various components in the machine box clean can effectively protect the print head and prolong the service life of the print head. The cleaning method is to wipe the surface of each component inside the case with a soft cloth soaked in absolute alcohol.

Cleaning of the detector

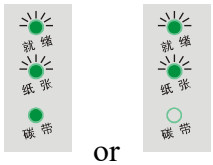
If dust and paper debris are left on the detector, the content of the label may be misprinted. Use a blower device (suction ball is enough) to blow away the dust and paper scraps on the detector. If it doesn't blow cleanly, wipe it with a cotton swab soaked in absolute alcohol.

Chapter 4 Troubleshooting

LED Indicator light tips

Normally, when the printer fails or has an abnormal condition, the "ready" indicator on the key panel will flash, and the communication and printing operation between the printer and the host will also stop. To understand the cause of the failure, first check the flashing status of the LED indicator on the key panel. For models with an LCD display, fault information can be viewed directly from the LCD.

- **The READY and PAPER lights are blinking at the same time, indicating a label related fault.**



or

Ready
Paper
Ribbon

Possible causes of failure	Solution	Precautions
Unable to detect tag	Check whether the label roll is installed correctly; Check whether the position of the paper detector is aligned with the label gap (or black line, hole); Calibrate the paper detector.	If you are using continuous paper without gaps (or black lines, holes), please check the barcode editing software and driver, you should set the paper type to continuous paper.
Labels are used up	Installing new rolls of label paper	
Cardstock	Clear stuck tags	
Paper roll stopper not tight against the paper roll or not installed	Correct installation according to Figure 6-2 (page 20)	
Paper detector damage	Servicing the Paper Detector	

- **The "ready" and "ribbon" indicators flash at the same time, which is a fault related to the ribbon.**

Ready
Paper
Ribbon

Possible causes of failure	Solution	Cautions
Run out of ribbon	Install new ribbon	
Clogged ribbon	Clear Ribbon Blockage	
Ribbon shaft set reversed or not installed	Refer to the section "Use" -> "Installing the ribbon" for proper installation (p. 14)	
Ribbon detector is broken	Repairing the Ribbon Detector	

- **Only the "Ready" light flashes**

or

Ready
Paper
Ribbon

Please confirm that you have pressed the "Pause" button to put the printer into a pause state before?

Please press the "Pause" button and observe whether the "Ready" indicator is on, otherwise the following faults may occur:

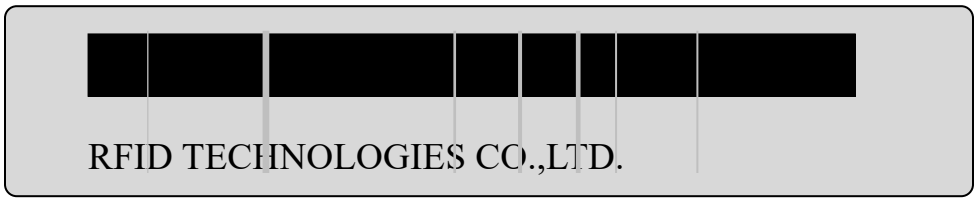
Possible cause of failure	Solution	Cautions
Whether to open the paper or cutting knife function	Correctly set the DIP switches on the back panel of the machine	
The speed and protocol of the serial communication between the computer and the printer are inconsistent	Correctly set the DIP switches on the back panel of the machine	
Memory overflow	•Power off the printer, restart the printer • Reset to factory	

	defaults	

- General Failure

- **Print head broken needle**

When the printout has fixed vertical white lines, the print head may be dirty or broken (as shown in the picture below)。



Please clean the print head first, if the problem still cannot be solved, you need to replace the print head, please contact your dealer.

- **The host displays "Printer connection timed out"**

Please check.
1. Is the communication cable between the computer and the printer properly connected?
2. Is the power to the printer turned on?
If the problem is still not solved, please contact your seller or the manufacturer's customer service department.

- **The data has been transferred, but the printer is not printing.**

1. Check if the current printer driver is correct;
2. Do a "reset" operation and try again.
If the printer still has no output, please contact the dealer.

Poor print quality

Please try the following:
1. Adjust the print blackness;
2. Adjust the print speed;
3. Refer to the previous section on printer maintenance to clean related parts and components;
4. It may be that the quality of the ribbon is not good or the ribbon does not match the label, please try to replace the ribbon with another model;
5. Maybe the label material is not good, please try to replace the label.

Resume normal operation

After troubleshooting, if you want to continue printing, just press the "Cancel" button on the printer's key panel;

If the machine is turned on again, after turning off the power of the printer, it is necessary to delete the untransferred print data left on the computer before turning on the power of the printer.

Other unexplained failures

For other unexplained malfunctions, please seek help from the seller or the manufacturer's customer service department.

Appendix A: Port Specifications

RS232 serial port

Printer's port configuration: DB9F

foot position	direction	definition
1	/	/
2	Out	TX
3	In	RX
4	In	DTR
5	-	Ground
6	Out	DSR
7	In	CTS
8	Out	RTS
9	/	/

How to connect to the computer:

Mainframe 25S		Printers 9S	Mainframe 9S		Printers 9S
TX 2	·····	3 RX	RX 2	·····	2 TX
RX 3	·····	2 TX	TX 3	·····	3 RX
DSR 6	·····	6 DSR	DTR 4	·····	4 DTR
DTR 20	·····	4 DTR	DSR 6	·····	6 DSR
RTS 4	·····	7 CTS	RTS 7	·····	7 CTS
CTS 5	·····	8 RTS	CTS 8	·····	8 RTS
GND 7	·····	5 GND	GND 5	·····	5 GND

The easiest way, just connect 3 wires.

Mainframe 25S		Printers 9S	Mainframe 9S		Printers 9S
TX 2	·····	3 RX	RX 2	·····	2 TX
RX 3	·····	2 TX	TX 3	·····	3 RX
GND 7	·····	5 GND	GND 5	·····	5 GND
pin 4 pin 5	⌐¬		pin 4 pin 6	⌐¬	
pin 6 pin 20	⌐¬		pin 7 pin 8	⌐¬	

Serial port available configuration.

baud rate (Baud rate) ： 9600，19200，38400，57600。
(Set bits 7-8 of the DIP switch)

data format (Data format) ： 8 data bits，1 start bit and 1 stop bit。

Parity Check (Parity) ： No check (non parity)。

Data flow control（flow control）： RTS/ CTS(hardware way)。

If the software you are using is under Windows, you must set flow control to "hardware" in the driver software.

Note: The data in the computer can be sent to the printer via any communication port (USB, serial port or network port), no need to set in advance, the printer will automatically detect it. But don't send data from another port until one port has finished sending, otherwise a printer communication error will occur.

Appendix B: ASCII Table

	0	1	2	3	4	5	6	7
0	NUL			0	@	P	`	p
1	SOH	XON	!	1	A	Q	a	q
2	STX		“	2	B	R	b	r
3		XOFF	#	3	C	S	c	s
4			$	4	D	T	d	t
5		NAK	%	5	E	U	e	u
6	ACK		&	6	F	V	f	v
7	BEL		‘	7	G	W	g	w
8	BS		(	8	H	X	h	x
9			)	9	I	Y	i	y
A	LF		*	:	J	Z	j	z
B		ESC	+	;	K	[	k	{
C	FF		,	<	L	\	l	|
D	CR		-	=	M	]	m	}
E	SO	RS	.	>	N	^	n	~
F	SI	US	/	?	O	_	o	DEL

Note: The euro symbol "€" takes the value DEC128 or HEX 80.