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# 4B-2054TC/4B-3044TB Series

# THERMAL TRANSFER/ DIRECT THERMAL BARCODE PRINTER

# **USER'S MANUAL**

Please keep user manual for reference

### Content

1, 1	Printer brief introduction	1
	1.1 introduction	1
	1.2 product parameter	2
	1.3 General specification	
	1.4 ribbon specification	3
	1.5 printer paper specification	
2、I	Product introduction	5
	2.1 Unpacking and inventorying accessories	5
	2.2 Printer components	6
3、1	Installation	10
	3.1 install printer	
	3.2 install ribbon	11
	3.3 install paper	
4、I	LED indicator and the function of button	
	4.1 LED Indicator	
	4.2 function of usual button	
	4.3 power-on function	
5、I	Diagnostic Tool	
	5.1 stat using diagnostic tool procedure	
	5.2 printer setting	
	5.3 use printer diagnostic tool correct paper sensor	27
6, '	Trouble removal and common problem	
7、I	Easy maintenance of printer	31
	Update record	

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# 1. Printer brief introduction

## 1.1 Introduction

Thank you for purchasing our thermal transfer/thermal barcode printer

The slidable media sensor supports a wide range of paper types, including paper rolls, paper slicing and folding. In addition, other commonly used bar code papers can be used

This model has built in high-quality and efficient simulation font engine and font library. With a flexible firmware design,

users can also download True Type Font fonts to the printer's memory. Besides scaled font, five different alphanumeric ,

OCR-A and OCR-B fonts are available. Combining such a powerful function, competitive price, high printing quality, this

printer will be your best choice in the same level of thermal and thermal transfer printers

When printing the label format, please refer to the information provided by your label editing software. If you need to write your own program, it is just only for your reference

TSPL、ZPL、DPL、EPL Instruction Manual.

#### Scope of application:

- o Manufacturing & warehousing industry
- o Logistics industry
- o Medical industry
- o Retail industry

## **1.2** Product parameters

Product standard equipment	<b>203 dpi</b> 4B-2054TC	<b>300 dpi</b> 4B-3044TB
Thermal transfer printing	0	0
Thermal printing	0	0
ABS plastic HOUSING	0	0
Gap sensor / through-transmission	0	0
Adjustable black mark sensor /	0	0
Ribbon sensor	0	0
Head open sensor	0	0
USB 2.0(full speed) Communication Interface	0	0
8 MB SDRAM	0	0
8 MB FLASH	0	0
Feed button and LED indicator	0	0
Supports (Eltron? and Zebra?) emulation	0	0
Contains 8 kinds of dot matrix type font	0	0
Fonts and bar codes can be rotated in four directions (0,90,180,270degree)	0	0
Including font	0	0
Can download windows font to use	0	0
can download firmware to update	0	0
Supports text, barcodes, photos. (Refer to TSPL,ZPL,DPL,EPL programmer's manual for available codepage)	0	0
SUPPORT Support image		
BARCODE format		
Code 39, Code 93, Code128UCC, Code128 subsetsPDF-417, Maxicode, DataMatrix, QR code, A,B,C, Codabar,BITMAP,A,B,C, Codabar, A,B,C, Codabar,DataMatrix, QR code, Aztec, GS1 DataBar Composite codeBMP, PCXInterleaved2of 5, EAN-8, EAN-13, EAN-128, 		
POSTNET, China POST, GS1 DataBar, Code 11		

# **1.3** General Specification

General Specification	
Printer measurement	246mm(D)*199mm(W)*168mm(H)
Printer weight	1.6kg
Power	
	Input:AC 100-240V Output: DC
	24V Output:2.5A,60W
Environmental conditions	
	Operating environment: temperature5-40°C(41-104°F), Humidity (non-condensing) 25-85%, Storage environment: -40-60°C temperature: 10-90%

# 1.4 Ribbon Specifications

Ribbon Specifications	
Ribbon external diameter	Max35mm
Ribbon length	90 m
Ribbon internal core	
diameter	12.7 mm (0.5")( Ink outside Coating)
Ribbon width	Max.110 mm
	Min.25.4mm
Ribbon winding type	Outer -roll type

# 1.5 Media specifications

Printing resolution				
	203 DPI	300 DPI		
Printing head resolution				
ratio	8 dots/mm(203 DPI)	11.8 dots/mm(300 DPI)		
Print mode	Thermal transfer and direct thermal			
Dot size	0.125 x 0.125mm	0.084 x 0.084 mm		
(width x length)	(1mm= 8 dots)	(1mm= 8 dots)		
Printing speed (ips:				
inches per second	127 mm (5") / s	101 mm (4") / s		
Print width	25.4mm(1") <sub>~</sub> 108 mm (4.25")	104 mm (4.09")		
<b>_</b>	Max 115 mm (4.5")	Max 115 mm (4.5")		
Paper width (label +				
bottom paper)	Min 25.4 mm (1.0")	Min 25.4 mm (1.0")		
Danar thickness (label	Max 0.25 mm	Max 0.25 mm		
+ bottom paper)	Min 0.06 mm	Min 0.06 mm		
Internal roll paper maximum capacity outside diameter	127 mm (5") OD	127 mm (5") OD		
Paper type	Continuous paper, gap paper, black label paper, folding paper, perforated paper			
Paper winding type	External roll type/internal roll type			
Paper roller diameter	25.4 mm (1.0")	25.4 mm (1.0")		
label length	10mm ~1778mm(0.39"~70")	10mm ~889mm(0.39"~35")		

Remarks:

If you use a label length less than 25.4mm (1"), we suggest you use label which has a perforated line on the gap So that easy to tear off

# 2. Product description

#### 2.1 Unpacking and inventorying accessories

The printer is specially packed to resist the damage that may occur during transportation. However, in view of the fact that the printer may still be unexpectedly damaged while it is being transported, so that we suggest you check the packaging and printer setup carefully when receive the printer. If there is any obvious damage, please contact the dealer directly to indicate the nature and extent of the damage; please keep the packing material so that the printer can be mailed.

After you receive barcode printer, please put it on a clean, stable table and open the printer carefully. Check whether the following items are included in the inventory

Bar code printer	x1
CD	x1
Quick Start Guide	x1
Power cable	x1
Power supply kit	x1
USB communication cable	x1
Paper supply kit	x1
Ribbon	x1
Rribbon roller	x2



Please keep the printer's packaging and materials properly for future transportation; if any of the above items is short or missing, please contact the customer service department where you purchased the product.

#### 2.2 Printer components

Appearance



#### 1. Feed Button

- 2. LED indicator light
- 3. Paper outlet
- 4. Cover open switch



- 1.Ribbon gear
- 2.Printhead
- 3.Label guide
- 4.Front cover

- 5. Bracket lock
- 6. Cover support kit
- 7. Black mark sensor
- 8. Stripping sensor



- 9. Ribbon fixed kit
- 13. Platen roller
- 10. Grating wheel
- 11. Ribbon gear 3
- 12. Ribbon gear 2
- 14. Ribbon fixed fastener
- 15. Used ribbon fixed fastener

**Back view** 



Power switch
 Power jack
 USB(USB2.0/Fullspeed mode)
 Paper inlet

.

Attention: The transfer interface of the printer in the picture will difference according to the type of machine you are purchasing. actual transfer interface Please refer to the product specification.

# 3. Installation 3.1 Install printer

- 1. Put the printer on a stable surface.
- 2. Make sure the power is off.
- 3. Insert one end of the USB cable into the slot on the back of the printer, and then connect the other end of the cable to the appropriate slot on the computer.
- 4.Insert the power cord into the power jack on
- 5. The rear of the printer and plug the other end into an AC outlet.



**ATTENTION:** 

Turn off the printer's power switch and plug the power cord into the printer's power socket The transfer interface of the printer in the picture will difference according to the type of machine you are purchasing. actual transfer interface Please refer to the product specification

## 3.2 Install the ribbon





• Ribbon installation path



## 3.3 Installation of paper

### 3.3.1 Installation of paper







Note:The label sensor of this series is removable. Please confirm that the gap (or black mark) of the aper is passed through the sensor. It is recommended that when you change the different types of label paper, please redo the sensor calibration.

### • Media loading path





# 4. LED indicator and the function of button

Printer designed with one set of gear motor, one Feed button and one LED indicator. According to the different LED display color, User can tell the status of printer.

### 4.1 LED indicator

LED indicator color	introduction
Blue (fixed)	Power on, printer standby
Blue (blinking)	Printer is downloading data or in pause status.
Purple	The printer is formatting the data
Red (fixed)	Printer is in head opened or cutter error status.
Red (blinking)	Printing errors, such as paper out, jam or memory errors,
	etc.

### 4.2 General button function

1.Paper feeding

When printer is standby(Blue LED fixed), the installed paper will move forward one unit if feed button is pressed once.

#### 2.Pause mode

When the printer is printing, press feed button will cause the printing to pause. Then Blue LED indicator will display in blinking status.

### **4.3** Boot functions

The printer has six boot functions to be used to set or test printer hardware.

You can start these functions by:

- 1. Turn off power of printer.
- 2. Keep pressing down the feed button then turn on printer.
- 3. Release the button according to the timing in the table below.

Boot functions	Light color	r <mark>cycle</mark> m	node			
Light color	Purple	Blue	Red	Purple	Blue	Blue
Menu						
			Blink 5	Blink 5	Blink 5	Fixed
			times	times	times	blue
1.Gap/black mark sensor detection and			Release			
calibrate paper.			the			
			button			
2. Gap/black mark sensor detection, print				Release		
3. Printer initialization (restore factory default)					Release the button	
4. Skip the AUTO. BAS procedure						Release the button

### 4.3.1 Gap/black label sensor detection

This detection is used to determine the sensitivity of label paper sensor after the printer starts up . When you changes new and different specifications of the paper roll or Initialize the printer to restore the value of the factory default, you need the sensor to redetect label paper clearance. And clearance detection or correction of black is set based on the value of reference for the last time. The default value of the printer sensors is set to clearance adjustment.

Please follow the steps below to calibrate the ribbon and gap/black mark sensor.

- 1. Hold on the button then turn on the power switch..
- 2. Release the button when LED becomes red and blinking. (Any red will do during the 5 blinks).
- 3.It will calibrate the ribbon sensor and gap/black mark sensor sensitivity. The LED color will be changed as following order:

Purple  $\rightarrow$  blue  $\rightarrow$  red (5 blinks)  $\rightarrow$  purple (5 blinks)  $\rightarrow$  blue (5 blinks)  $\rightarrow$  solid blue

Note:

Please select gap or black mark sensor by sending GAP or BLINE command to printer prior tocalibrate the sensor.

For more information about GAP and BLINE command, please refer to TSPL2 programming manual.

#### 4.3.2 Gap/Black Mark Calibration, Self-test and Dump Mode

While calibrate the gap/black mark sensor, printer will measure the label length, print the internal configuration (self-test) on label and then enter the dump mode. To calibrate gap or black mark sensor, depends on the sensor setting in the last print job.

Please follow the steps below to calibrate the sensor.

1. Turn off the power switch.

2. Hold on the button then turn on the power switch.

3. Release the button when LED becomes purple and blinking. (Any purple will do during the 5 blinks)

The LED color will be changed as following order.

Purple  $\rightarrow$  red (5 blinks)  $\rightarrow$  purple (5 blinks)  $\rightarrow$  blue (5 blinks)  $\rightarrow$  blue/purple (5 blinks) $\rightarrow$  red/purple (5 blinks) $\rightarrow$  solid blue

4. It calibrates the sensor and measures the label length and prints internal settings then enter the dump mode.

Note:

Please select gap or black mark sensor by Diagnostic Tool or by GAP or BLINE command prior to calibrate the sensor.

For more information about GAP and BLINE command, please refer to TSPL2 programming manual.

#### Self test page

The printer will print self test values after the sensor calibration is completed. Before you connect the printer to the computer, you can verify the printer to print properly by using the self -test function. The self-test values can be used to check the quality of the printer and show the setting of the printer internal state.

Self-test printout		
PRINTER INFO		
WWWWW Version	: 1.022 EZD	Model & Firmware version
	WWWWWW	Serial number
SERIAL NO AND		Current printing length
MILAGE(M) . 0703E46	E VDE	Check sum
CRECKSON, DART. 9600	N 8 1	Serial port information
SERIAL PORT. SOUD	, , , , , ,	Current codepage
CODE PHOE. DOC		Country code
COUNTRY CODE. OUT		Printing speed
DENSITY & A		Printing density
ST7E: 4 00 2 04		
COD: 0 00 0 00		Black mark or gap size (vertical gap, offset)
TRANSDORENCE : 4		
Bluetooth: NO		
UTST: NO		
************	*****	
ETLE I TST.	******************	
DRAM FILE:	0 FILE(S)	Memory information
FLASH FILE	2 FILE(S)	
TSS24 BF2	1737392 BYTES	
TSS16.8F2	771680 BYTES	
PHYSICAL DRAM:	8192 KBYTES	
AVAILABLE DRAM:	256 KBYTES FREE	· / ·
PHYSICAL FLASH	5120 KBYTES	
and the second		
AVAILABLE FLASH:	2631 KBYTES FREE	

Debug mode

In debug mode, all volume label are printed out as machine code. On the left side of volume label is the ASCII string received data from the computer. And on the right of are data printed out in form of hexadecimal values according to the left ASCII string .This function provide user or engineer to debug program. After debugging, user need to restart the printer to resume printing mode.



#### Note:

1. Please using 4 inches label to get the complete debug information

### 4.3.3 Printer initialization

Printer initialization function is to format DRAM memory and change setting to factory default.

Printer initialization is activated by the following procedures.

- 3.1 Turn off the power switch.
- 3.2 Hold on the button then turn on the power switch.
- 3.3 Release the button when LED turns blue after 5 purple blinks. (Any blue will do during the 5 blinks).

The LED color will be changed as following:

Purple  $\rightarrow$  blue  $\rightarrow$  red (5 blinks)  $\rightarrow$  purple (5 blinks)  $\rightarrow$  blue (5 blinks)  $\rightarrow$  solid blue

Factory default value:

Parameter	The default value
Speed	127 mm/sec (5 ") (203DPI)
	101 mm/sec (4 ") (300DPI)
Density	8
Label width	4 " (100 mm)
Label height	2.5 " (63.5 mm)
Sensor type	Gap sensor
Gap setting	0.08 " (2.0 mm)
Direction	0
Reference point	0,0 (upper left corner)
Offset	0
Tearing mode	On
Peeling mode	Off
Serial port Settings	9600 bps, none parity, 8 data bits, 1 stop
Character set	850
Country code	001
Clearing Flash	No
IP address	DHCP

## 4.3.4 Skip the AUTO. BAS procedure

TSPL2 programming manual command language allows users to load a document automatically (AUTO. BAS) in flash memory. Printer will automatically perform according to the boot files loaded by users. When you want to skip AUTO. BAS procedure, you can use this function to ignore this automatically executable files.

Please follow the procedures below to skip an AUTO.BAS program.

- 1. Turn off printer power.
- 2. Press the FEED button and then turn on power.
- 3. Release the FEED button when LED becomes solid blue.

The LED color will be changed as following:

Purple → blue → red (5 blinks) → purple (5 blinks) → blue (5 blinks) → solid blue

4. Printer will be interrupted to run the AUTO.BAS program.

# 5. Diagnostic Tool

Diagnostic Tool is a simple and easy-operated tool, which can check the printer information, file download and send emulation command.

### 5.1 Enable DiagnosticTool tool program

2. There are three administration pages (printer Settings, file management, communication tools) in main picture after the program starts.

	📃 Diagnostic Tool V1.016	b			×	<
	Language English ~	Unit inch Omm	Interface USB	V Setup	Status Get Stafus	
	Printer Configuration File Mana	ger Command Tool System P	rinter Settings			
	Printer Function	Printer Configuration				
	Calibrate Sensor	Version		Cutting Counter		
	Ethernet Setup	Serial NO	Check Sum	Mileage		
		Common Z D	RS-232			
	RTC Setup	Speed		Ribbon	~	
	Factory Default	Density Paper Width	inch	Ribbon Sensor Ribbon Encoder Err	~	
	Reset Printer	Paper Height	inch	Code Page	~	Printer setu
	Print TestPage	Gap	inch	Hea-up Sensor	~	
inter	Configuration Range	Gap Offset	inch	Reprint After Error	~	
	Conliguration Page	Cut Piece	~	Gap Inten		
	Dump Text	Reference		Bline Inten		
	Ignore AUTO.BAS	Direction	~ ~	Continuous Inten		
		Shift X			Y	
	Password Setup	Shift Y				
	Exit Line Setup	Clear	Load	Save	Set Get	

### 5.2 Printer Setting

1. Choose connection interface between computer and printer.

Interface	
USB V Setup	Interfa
The default setting of connection interface of	USB
printer diagnostic tools program is USB . So if	USB
transmission is through the USB cable link,	COM
there is no need to set this part. Just go to	LPT
the next step.	ETHE

USB 🗸 S	etun
	otup
USB	

- 2.Click the needed function in function area.
- 3. Printer function introduction in the administration page of Printer Setting is as follows.

Printer Function	Inroduction
Calibrate Sensor	Sensor calibration
Ethernet Setup	Set the Ethernet
RTC Setup	
Factory Default	Set printer RTC time parameters
Pasat Printer	restore factory default and restart
	Restart the printer
Print TestPage	Print the test page
Configuration Page	Print self-test page
Dump Text	
Ignore AUTO.BAS	Enter the printer error budgeting model
Password Setup	Ignore AUTO. BAS files
	Set the Diagnostic Tool passwords
Exit Line Setup	Set the Diagnostic 1001 passwords

### 5.3.1 Automatic correction

1.Please make sure the paper correctly installed and closed the printer head.



- 3.1 Turn on printer.
- 3.2 Select the communicate port according to the connected port.

Interface	Interface
USB ~ Setup	USB V Setup
Default setting of connection interface of printer diagnostic tools program is USB . So if transmission is through the USB cable link, there is no need to set this part. Just go to the next step.	COM LPT ETHERNET

- 4. Press the "sensor calibration" button.
- 5. Choose the paper type and press the "Calibrate" button

	Manual Setup	Media Type
Paper Height	Sensor Intensity	● Gap
inch		O Blach Mark
Gap	Threshold Value	O Continuous
inch	[	Auto Selection

The contents of the table below are common problems and solutions in general operators ;If you troubleshoot in the way we suggest, and printer is still not functioning, then please get in touch with manufacturer's customer service department to get more help.

Problems	possible factors	solution
-The power indicator light is not light	* The ac plug socket and the power supply plug socket are not properly connected with the socket of the printer.	*Check and make sure the ac plug socket and the power supply plug socket are correctly connected with the socket of the printer.
	* The printer power switch is not on.	* Turn on the power switch.
-Printer Diagnostic tools (the Diagnostic Tool) show" head opened "	* Cover doesn't close entirely	* Try to reclose cover harder once.
	* Ribbon end	
-Printer Diagnostic tools (the Diagnostic Tool) show "Ribbon end" or "Ribbon speed error"	* Ribbon installed incorrectly	<ul> <li>* Supply a new ribbon roll.</li> <li>* Please refer to the steps on section</li> <li>3.2 tore-install the ribbon.</li> </ul>
	* Label paper end	* Install the new label paper
-Printer Diagnostic tools (the Diagnostic Tool) shows "paper end"	* Paper installed incorrectly	* Correct the Sensor position
	* Gap/black mark sensors error	* Recalibrate label sensor
	* Clearance/black label sensors detect error	* Recalibrate volume label sensor
Printer Diagnostic tools (the Diagnostic Tool) shows " Paper	* Volume label paper size is not correct	* Set the correct label size
Jam "	* Maybe volume label paper gets stuck in internal structure of printer	* Clean the internal structure of printer

Problems	Possible factors	Solution
		* Reconnect the transmission line.
		* Replace new transmission line.
-Not Printing		<ul> <li>* Ribbon does not match label .</li> <li>* Please Confirm whether ink surface of Ribbon is installed correctly.</li> </ul>
	* Pin feet of Serial port	<sup>^</sup> Reinstall the Ribbon.
		* Clean the print head.
	line in the transmission	* Print density setting is not correct.
	1 to 1	<ul> <li>* The connection line of the print head is not connected properly. Please turn off the printer's power supply and reconnect the connection line of the print head.</li> <li>* Please confirm that the connecting line of the stepping motor is connected correctly.</li> <li>* Please confirm that there is a PRINT instruction in the print program.</li> </ul>
		In the end, and at the end of each line, there must be a CRLF.
		* Remove unnecessary files inside FLASH / DRAM.
-The memory space is full( FLASH / DRAM )	*FLASH/DRAM memory space is full	* DRAM can store up to 256 files at most
		* The maximum storage capacity of the DRAM is 256KB.
		* FLASH can store up to 256 files at most
		* 2560KBthe maximum storage capacity in FLASH is 2560KB.
	* Ribbon and label paper	* Reinstall the consumables.
- Poor print quality	There is dust or glue stacking on the print	* Clean print head.
		* Clean rubber roller.
		* Adjust the printer's printing density and printing speed.
	<ul> <li>Print density setting is not correct</li> <li>Print head damage</li> </ul>	* Print out the self-test value to see if the print head is damaged. If the print head is damaged, replace the print head.
	* Ribbon does not match label	* Replace a suitable ribbon or label paper.
	* The pressure setting of the print head is not appropriate	<ul> <li>* lif the thickness of the label exceeds 0.22 mm, the printing quality may not be good enough. Please increase the print head pressure first.</li> <li>* Confirm that the print head frame has been completely closed.</li> </ul>
	* The size of the label is not set or incompletely set	* Please confirm that the label size is set to be correct.
-The situation of jumping paper when printing	* Do not recalibrate the sensor after replacing tag	* Please recalibrate the label sensor.
	* label sensor is covered by dust, causing incorrect detection	* Clean the dust on the sensor with a gas brush.

problems	possible factors	solution	
	* Label sensor setting is	* Recalibrate label sensors	
	incorrec	* Set the correct size of the volume label and	
	* label size setting is	the clearance size of the volume label	
	incorrect	*If BarTender software is used, set the	
	* The vertical displacement	vertical offset (vertical offset) in the printer	
	(vertical offset) in the printer		
	driver's label style is not set	Page Setup Graphics Stock Options About	
	correctly.	Media Settings Method: Direct Thermal ~	
		Type: Use Current Printer Setting ~	
- Print position is incorrect when			
printing small volume label		Post-Print Action: Tear Off	
		Ogcurrence: After Every Page	
		Interval: <u>F</u> eed Offset: 0.0 mm	
		Position Adjustments	
		<u>U</u> ge Current Printer Settings	
		OK Cancel Apply Help	
		Oix Cancel Apply help	
- Print content on the left and right	* Incorrect label size setting	* Set the correct label size	
sides missing			
- When the printer is restarted, the	* Battery run out of electricity	* Please replace the battery on the	
RTC time is incorrect		motherboard	
	* Pressure of print head is	* Please go to the next chapter for the	
	uneven	adjustment of uneven pressure on the print	
	* Ribbon is not installed	head.	
	correctly	* Please set the suitable density to have good print	
- Wrinkle problem	*The label paper is not	quality.	
	installed correctly	* Please adjust the label width adjuster to fit	
	*Incorrect print density	the label width.	
	* label paper feeds		
	incorrectly		
	* There is dirt on the print	* Clean print head	
- Black label paper with gray lines	head	* Clean rubber roller	
	* There is dirt on rubber roller		
	* The printer is in Hex Dump	* Turn the printer off again and jump out of	
- Print unsteadilv	mode	the dump mode	
	* Serial line (RS-232) setting	*Reset the RS-232	
	is incorrect		

# 7. Maintenance of the printer

To do simple maintenance of printer ,it will not only make sure the quality of printing ,but also can extend the printer's life . please find us some recommended maintenance method as below. 1.se use the tools listed below to clean and maintain your printer

- Cotton swab
- cotton
- air brush
- Medical alcohol

#### 2. Cleaning and maintenance procedures

Cleaning	Procedures	Recommended cleaning
part		frequency
	<ol> <li>Please turn off the power</li> <li>let print head to cool for at least one minute</li> <li>The cotton swab dampened with alcohol and then Wipe the print head surface</li> </ol>	Replacing a roll of new label paper
Printing head	Clearance Printhead	
Rubber roller	<ol> <li>Turn the power off.</li> <li>Rotate the platen roller and wipe it thoroughly with Medical alcohol and a Cotton swab, or lint-free cloth.</li> </ol>	Clean the platen roller when changing anew label roll
Stripp paper flake	Use the lint-free cloth with Medical alcohol to wipe it.	As needed
transducer	Compressed air or vacuum	Monthly
Outside of machine	Wipe it with water-dampened cloth	As needed
inside of machine	Brush or vacuum	As needed

NOTE:

Do not touch the print head directly . If touched by accident, dampen cotton swab with medical alcohol to wipe the printing head .

- Please use medical alcohol. Do not use industrial alcohol. Industrial alcohol may damage the print head.
- If your printer has frequent error messages, clean your printer's transducer frequently
- Printer is suitable for tropical climates ,safe to use.
- This is Grade A level product. this product may cause radio interference in the living environment. In this case, users may need to take practical measures for radio interference.

# Update record

Date	Content	Editor
2018/07/01	Release	