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XP-P441B

Portable Barcode Printer

User's Manual of Standard Version

Please keep the user's manual properly for reference

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XP does its best to ensure that the contents of the manual are correct, but errors are still likely to occur. XP reserves the right to correct any such errors and declares that it shall not be liable for any consequences caused thereby. The picture below is for reference only, and the appearance is subject to the product purchased.



I. Overview

1.1 Introduction

Thank you for purchasing the portable barcode printer made by our company.

This model simultaneously supports two modes including labels and bills, so as to deal with different usage scenarios. In addition, this model has a built-in high-quality and efficient "True Type Font" engine and font library. With a flexible design of firmware, the users can also download the True Type Font from the computer into the printer's memory. In addition to the ability to zoom the fonts, there are five different sizes of bitmap font, OCR-A and OCR-B fonts. Integrated with such powerful functions, affordable price, and the best printing quality, this printer will be your best choice for portable barcode printers at the same level.

Please refer to the information provided by your volume label editing software when printing the label format. If you need to write your own instruction program, please refer to the instruction manuals for TSPL, ZPL, DPL, EPL, CPCL, and ESC/POS.

Scope of application

o Manufacturing & warehousing logistics

Volume label of manufacturing mark

Label of inventory management

Label of item mark

Label of operation instruction

Label of distribution instruction

o Medical care

Identification of patients

Medicine mark

Label of specimen

- o Parcel mailing
 - Label of posting/receipt
- o Small office/studio
- o Retail

Price mark

Shelf item mark

Volume label of jewelry product

1.2 Parameters of product

Standard configuration

Standard configuration of product	203 dpi
Thermal printing	0
Two-color plastic case	0
Adjustable gap sensor/penetration type	0
Adjustable black mark sensor/reflection type	0
Printhead open sensor	0
USB 2.0 communication interface	0
8 MB SDRAM memory	0
8 MB FLASH memory	0
Date/time generator	0
Paper-out button and LCD display	0
Supporting programming languages of barcode printers of other brands	
(Eltron® and Zebra®)	
Supporting bill instructions	0
Containing 8 kinds of bitmap English digital types	0
Printing out fonts and barcodes rotationally in four directions (0,	
90,180, 270 degrees)	
Containing fonts	0
Downloading Windows fonts for use	0
Downloading firmware updates	0
Printing text, barcode, image/picture (for those supporting code page,	
please refer to the instructions manual of TSPL)	

Supported barcodes		Supported formats of pictures
1D bar code	2D bar code	
Code 39,	PDF-417,	BITMAP,
Code 93,	Maxicode,	BMP,
Code128UCC,	DataMatrix,	PCX
Code128 subsets	QR code,	(Max. 256 colors graphics)
A, B, C, Codabar,	Aztec,	
Interleaved 2 of 5, EAN-8,	GS1 DataBar	
EAN-13, EAN-128,	Composite code	
UPC-A, UPC-E,		
EAN and UPC 2(5)		
digits add-on, MSI,		
PLESSEY, POSTNET,		
China POST, GS1		
DataBar, Code 11		

Optional accessories

Optional accessories of product	Optional by customer	Optional by distributor	Optional by manufacturer
Wireless network communication interface	-	-	0

1.3 General specification

General specification	on
Volume and dimensions of printer	124 mm (D) x 108 mm (W) x61 mm (H)
Weight of printer	0.357 kg
Power supply	Internal voltage automatic switching power supply Input: AC 110-240V Output: DC 9V 2A, 18W/DC 5V 2A, 10W (Specific in kind)
Environmental conditions	Operation environment: Temperature-10~ 40°C (14~104°F); humidity (non-condensing) 25~85% Storage environment: Temperature -40~60°C (-40~140°F); humidity (non-condensing) 10~90%

1.4 Printing specification

Printing specification	203 dpi
Resolution of print head	8 dots/mm (203 dots/inch)
Printing mode	Direct Thermal
Dot size	0.125 x 0.125 mm
(Width x Length)	(1 mm = 8 dots)
Printing speed (ips: inch/second)	1,2,3,4, ips (1 ips = 25.4mm/s)
Maximum printing width	108 mm (4")
Maximum printing length	1778 mm (70")

1.5 Paper specification

Paper specification	203 dpi
Paper bin capacity	50 mm OD
Type of paper	Continuous paper, gap paper, black mark paper, perforated paper
Winding type of paper	Outward winding of printing surface
Width of paper (label +	Maximum 108 mm (4")
body paper)	Minimum 25.4 mm (1.0")
Thickness of paper (label	Maximum 0.25 mm (10 mil)
+ body paper)	Minimum 0.06 mm (2.36 mil)
Axis size of paper roll	12.7 mm~25.4 mm (0.5"~1")
Length of label	10~1778 mm (0.39"~70")
	Remark:
	If you are using a label in the length less than 25.4mm (1"), it is
	recommended to use a label paper with perforated lines on the gap
	so as to tear apart easily.
Spacing height of gap	Minimum 2 mm (0.09")
paper	
Black mark height of black	Minimum 2 mm (0.09")
mark paper	
Black mark width of black	Minimum 8 mm (0.31")
mark paper	

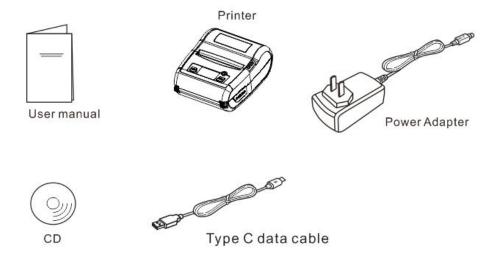
II. Product

2.1 Unpacking and inspection

This printer is specially packaged to protect against possible damage in transit. However, since the printer may still be subjected to unexpected damage during transportation, you are kindly required to check the packaging and all units carefully when receiving the printer. In case of obvious damage, please contact the sales dealer directly and indicate the severity of the damage. Please keep the packaging materials for returning the printer.

Once you have received your barcode printer, place it on a clean, steady table and carefully remove the packaging materials. Check if the following items are included:

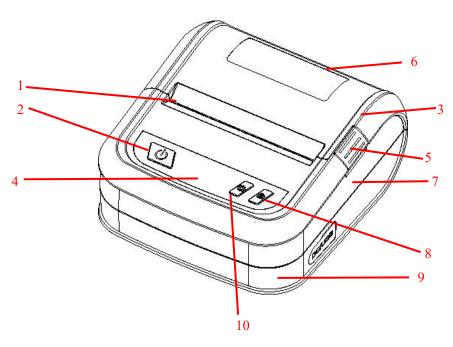
One barcode printer
One installation driver CD-ROM
One copy of operation instructions
One Type C data cable
One power adapter
One set of paper roll supply shaft



Please keep the printer's packaging materials properly for future handling. In case of any shortage or missing of the aforesaid items, please contact the customer service department in the place where you purchased the printer.

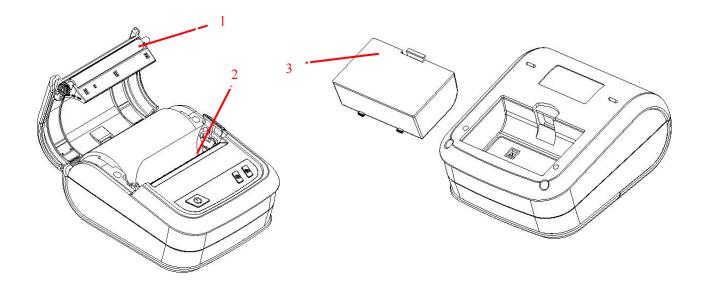
2.2 Printer components

Appearance



- 1. Paper exit
- 2. Power on/off button
- 3. Clamshell
- 4. Display screen
- 5. Clamshell switch
- 6. Transparent clamshell lens
- 7. Medium frame
- 8. Paper feeding button
- 9. Base
- 10. Menu button

Interior



- 1. Printing rubber roller
- 2. Print head
- 3. Battery

Side



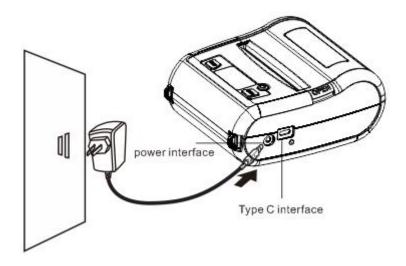
- 1. Power interface
- 2. Type C interface

Note: The transmission interface of the printer as shown in the picture will vary depending on the type of the printer purchased by you. Please refer to the catalog and specification of the product for the actual transmission interface.

III. Installation

3.1 Install the printer

- 1. Connect the adapter cable to the power interface of the printer.
- 2. Connect the interface cable to the user's equipment. (Connect to the printer via mobile phone Bluetooth / WIFI)

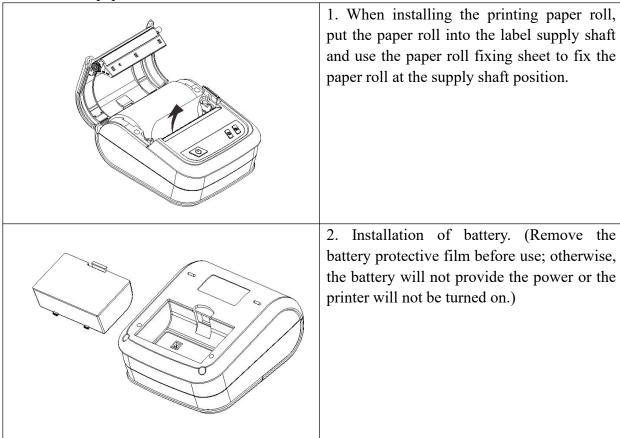


Note:

- * Please turn off the power switch of the printer, and insert the power cable into the power socket of the printer.
- * The transmission interface of the printer as shown in the picture will vary depending on the type of the printer purchased by you. Please refer to the catalog and specification of the product for the actual transmission interface.

3.2 Install the paper roll

3.2.1 Install the paper roll



Note: This series of paper sensors are stationary on the left side. Please make sure that the gap (or black mark) of the paper passes through the sensor.

It is recommended that you shall calibrate the sensor again when you replace with different types of label paper.

IV. Display Screen and Button Functions

4.1 Button names and display screen:

(1) POWER button

- A. Power-on: In the power-off state, press and hold the POWER button for 2S, and the printer enters the working state.
- B. Power-off: In the power-on state, press and hold the POWER button for 2S, and the printer is power off.
- C. Forced power-off: If an unknown error occurs to the printer, press and hold the POWER button for 6S to power off forcibly.
- D. Return to menu: In the menu open state, press the POWER button to return to the previous menu.

(2) MENU button

- A. Menu opening: The standby state is displayed on the display screen; press the MENU button to enter the menu.
- B. Option determination: In the menu open state, press this button to determine the options.

(3) FEED button

- A. Paper feeding function: Press this button to feed a piece of paper.
- B. Scroll-down function: In the menu open state, press this button to select scroll-down.

(4) Display screen

The state of printer, capacity of battery, and other messages can be displayed on the display screen.

4.2 Power-on function

This printer has the following power-on functions, which can be used to set up or test the printer hardware. To enable these functions, press the POWER button while holding down the FEED button, release the POWER button when the screen lights up, and release the FEED button according to the displayed message.

Power-on function	Displayed message
Detection by gap/black mark sensor	Calibrate
Detection by gap/black mark sensor, printing of	Self Test
self-test page, and entry into debugging mode	
Initialization of printer	Initialize
Detection by black mark sensor	Bline Detect
Detection by gap sensor	Gap Detect
Skip AUTO.BAS program	Enter the standby interface

4.2.1 Detection by gap/black mark sensor

This test is used to measure the sensitivity of the label paper sensor after the printer is turned on. It is required to retest the label paper gap sensor when the user replaces with the new paper roll in different specifications or initializes the printer and restores the set

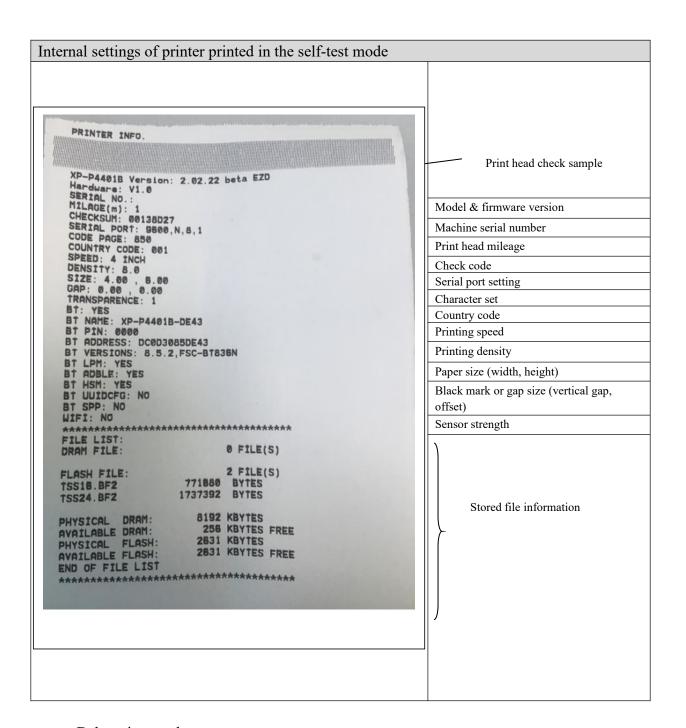
values to the factory default values.

4.2.2 Detection by gap/black mark sensor, printing of self-test page, and entry into debugging mode

By this test, the sensor will be calibrated first after the printer is powered on, and the internal set values of the printer will be printed, and the printer will enter the debugging mode.

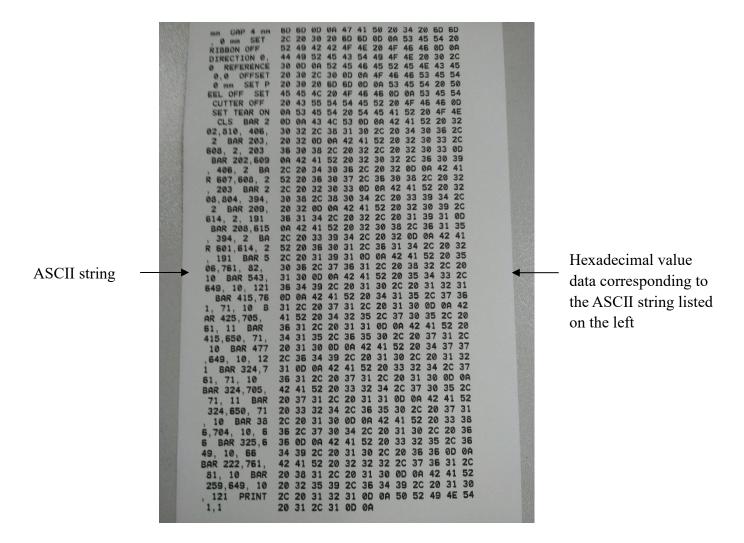
Self-test

When the sensor calibration is completed, the printer prints out the self-test value. Before connecting the printer to your computer, you can use self-test to confirm that the printer is functioning properly. The printed self-test value can be used to check the printing quality of the print head and know the internal settings of the printer.



Debugging mode

After the self-test is printed, the printer system enters the debugging mode. In the debugging mode, all the volume labels will be printed in machine code. The ASCII strings on the left are the data received by the system. The data on the right are printed from the strings on the left, in hexadecimal values. This function is provided for users or engineers to debug programs. You only need to turn off and on the power again to leave the debugging mode and return to the normal printing mode.



Note:

- 1. Label paper of 3" wide is required to print all the debugging mode data.
- 2. Turn off and on the power to leave the debugging mode and return to the normal printing mode, or press the **FEED** button to return to the standby state.

4.2.3 Printer initialization

The printer initialization function is to clear the downloaded files in the memory (DRAM) and restore the print parameters to the factory default settings. After enabling the printer initialization function, the printer will reset.

After initialization, the printer configuration is restored to its default values as follows:

Parameters	Defaults
Speed.	76 mm/sec (3 ips) (203DPI)
Density	8
Label width	4"(108mm)
Label height	4.0" (108 mm)
Sensor type	Gap sensor
Gap setting	0.12" (3.0 mm)
Printing direction	0
Reference point	0,0
Offset	0
Tear-off mode	On
Characters	850
Country code	001
Clear flash	No

4.2.4 Skip the AUTO.BAS program

The XPL programming manual command language allows the user to load an auto-execute file (AUTO.BAS) into the flash memory. When the printer is turned on, it will be automatically executed according to the file loaded by the user. When you want to skip the AUTO.BAS after power-on, you can use this boot function to ignore this auto-execute file.

4.3 Switching between barcode/bill mode

1) Barcode mode --> bill mode:

Enter the main menu -> Set -> Print the settings -> Instruction mode -> Select ESCPOS. The printer is automatically restarted, and ESC is displayed at the top right of the standby interface; at this time, the printer switches to the bill mode.

2) Bill mode --> barcode mode:

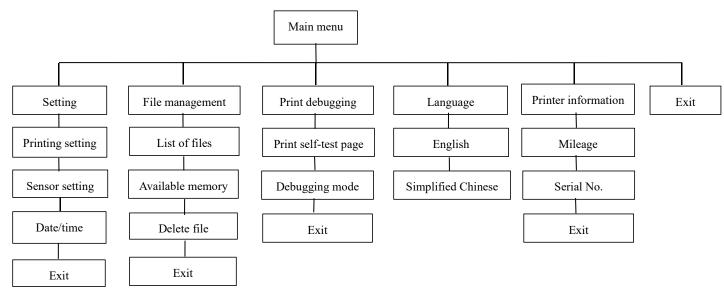
Press and hold the POWER button first, then press the MENU button or the FEED button, and then release all the buttons, and the printer is restarted automatically, and EZD is displayed at the top right of the standby interface; at this time, the printer switches to the

barcode mode.

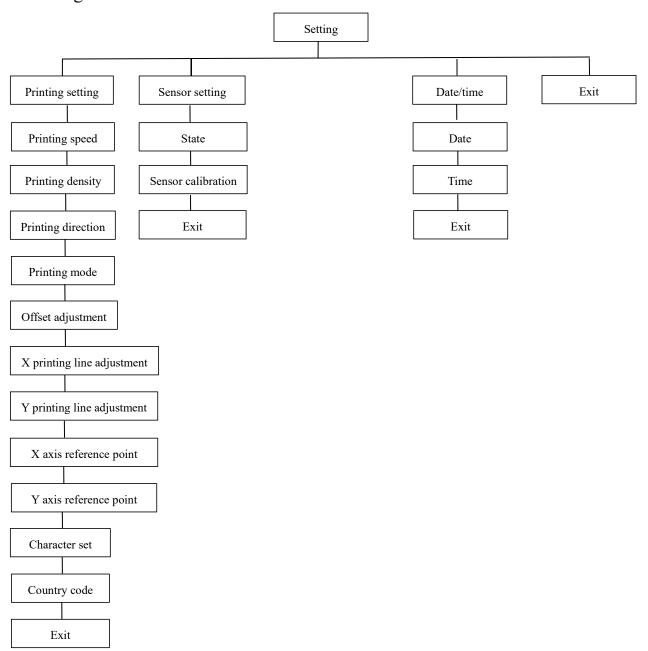
V. LCD Operation Panel

The LCD display screen version of this printer has four operation buttons including menu, scroll up, scroll down, and feed; the menu button and feed button shall be used as the OK button and backspace button respectively after entering the menu.

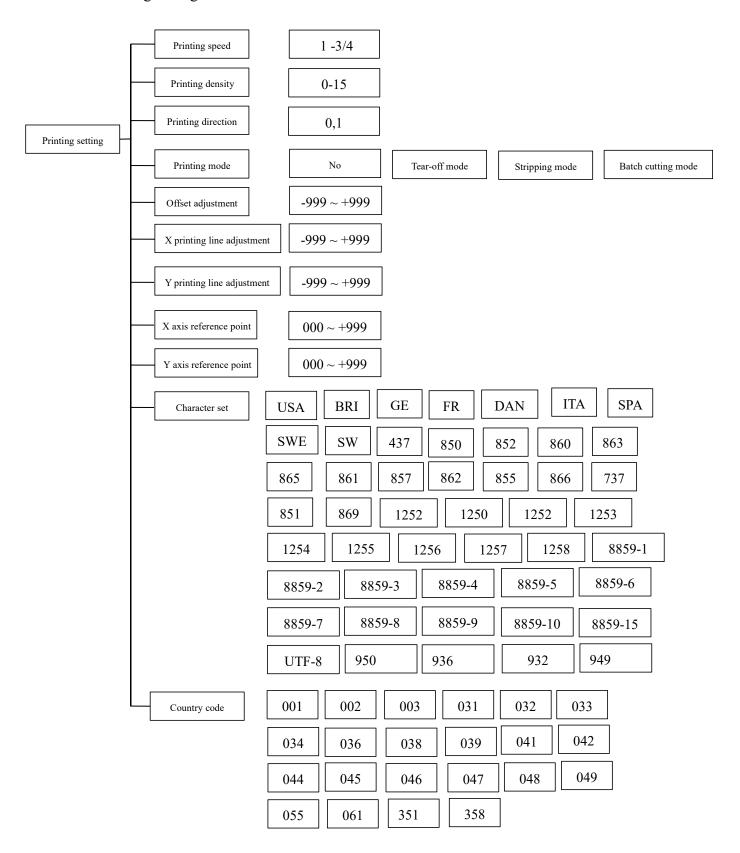
List of Main Menu Functions



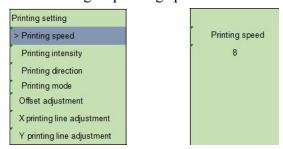
5.1 Setting



5.1.1 Printing setting



5.1.1-1.1 Setting of printing speed



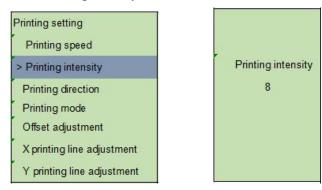
Use this option to set the printing speed of the printer. The adjustment ranges from 1 to 3 ips; The gap of increase and decrease is 1 ips each time.

Press FEED to select the value.

Press MENU to confirm the setting.

Press POWER to cancel the setting and return to the previous menu.

5.1.1 - 1.2 Printing density



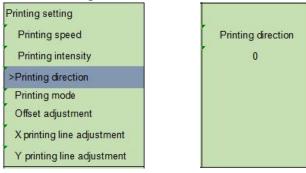
Use this option to set the printing density of the printer. The adjustment ranges from 0 to 15; The gap of increase and decrease is 1 each time.

Press FEED to select the value.

Press MENU to confirm the setting.

Press POWER to cancel the setting and return to the previous menu.

5.1.1 - 1.3 Printing direction



Use this option to set the printing direction of the printer. The set value of the printing direction is 1 or 0.

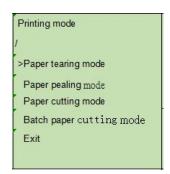
Press FEED to adjust the value.

Press MENU to confirm the setting.

Press POWER to cancel the setting and return to the previous menu.

5.1.1 - 1.4 Printing mode





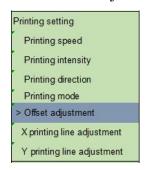
Use this option to set the printout mode of the printer. When entering this option, the icon ">" refers to the mode set currently.

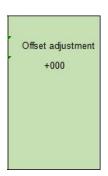
Press FEED to move the cursor.

Press MENU to complete the selection.

Press POWER to cancel the setting and return to the previous menu.

5.1.1 - 1.5 Offset adjustment





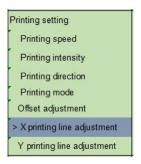
This option can be used to adjust the stop position after the label paper is printed. When the stripping or cutter function is used, it can be used to adjust the stop position of the label; when printing the next label, the compensation can be made for the portion pushed out more or less by means of pulling.

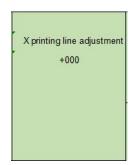
Press MENU to move the cursor to the right side.

Press FEED to set + - or the value from 0 to 9.

Press POWER to cancel the setting and return to the previous menu.

5.1.1 - 1.6 Adjustment of X printing line, adjustment of Y printing line





Use this option to adjust the printing position and the stop position of the label.

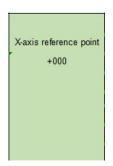
Press MENU to move the cursor to the right side.

Press FEED to set + - or the value from 0 to 9.

Press POWER to cancel the setting and return to the previous menu.

5.1.1 - 1.7 Reference point





Use this option to adjust the reference coordinates on the label paper relative to the origin point.

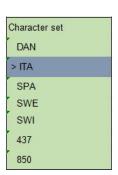
Press MENU to move the cursor to the right side.

Press FEED to set + - or the value from 0 to 9.

Press POWER to cancel the setting and return to the previous menu.

5.1.1 - 1.8 Character set





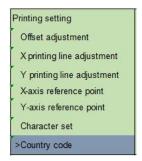
Use this option to set the character set of the printer. When entering this option, the icon ">" refers to the mode set currently.

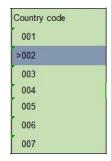
Press FEED to select the mode to be set.

Press MENU to complete the setting.

Press POWER to cancel the setting and return to the previous menu.

5.1.1 - 1.9 Country code





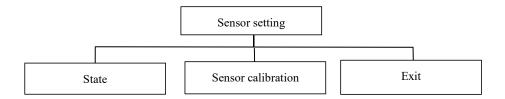
Use this option to set the country code of the printer. When entering this option, the icon ">" refers to the mode set currently.

Press FEED to select the mode to be set.

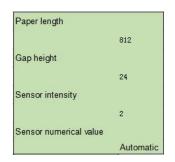
Press MENU to complete the setting.

Press POWER to cancel the setting and return to the previous menu.

5.1.2 Sensor setting



5.1.2.1 Sensor state

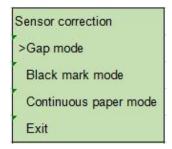


This option can be used to check the state of printer's sensor. When entering this option, the following message can be viewed.

5.1.2.2 Sensor calibration

This option can be used to set the detection mode of the sensor according to the label paper to be used and the sensor required for calibration. It is recommended that the sensor shall be recalibrated whenever the label paper is replaced.

A. Gap mode

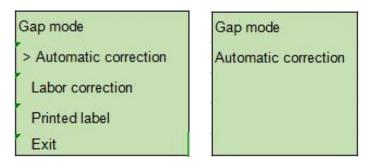


Press SCROLL DOWN to select the type of sensor.

Press MENU to complete the setting.

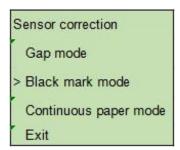
Press POWER to cancel the setting and return to the previous menu.

Automatic gap calibration

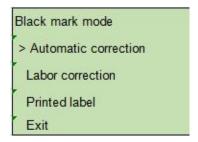


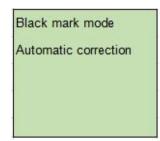
When entering this option, the above message will appear, and the printer will feed 2-3 sheets of label paper for calibration of the sensor. When the calibration is completed, it will return to the previous menu.

B.Black mark mode



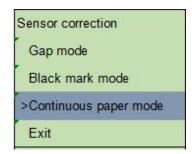
Automatic calibration of black mark





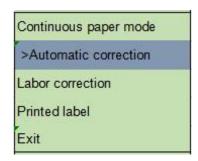
When entering this option, the above message will be displayed on LCD display screen, and the printer will feed 2-3 sheets of paper for calibration of the sensor.

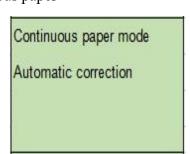
C. Continuous paper mode



Press SCROLL UP and SCROLL DOWN to select the type of sensor, and press MENU to complete the setting.

Automatic calibration of continuous paper



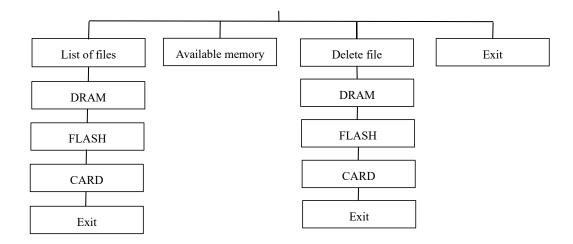


When entering this option, the above message will be viewed, and the printer will automatically calibrate the sensor for the paper. When the calibration is completed, it will return to the previous menu.

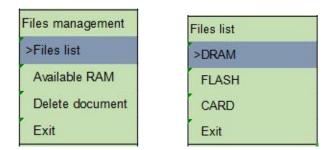
5.2 File management

With this option, it is possible to check the usage of the Flash TF memory card of the printer and the management of the files.

File management

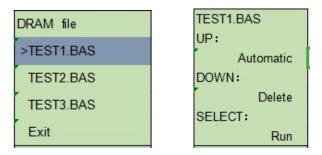


5.2.1 List of files



This option can be used to display, delete, and execute (.BAS) the files stored in the memory.

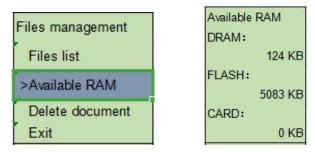
Display of files:



Delete file: Press SCROLL DOWN to delete the file.

Execute file: Press MENU to execute the file.

5.2.2 Memory space



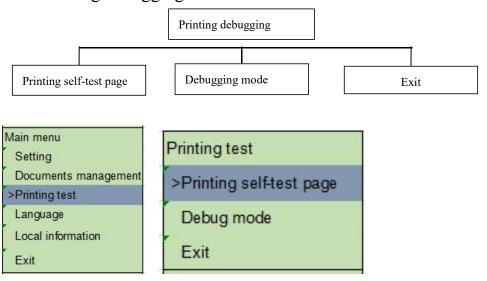
This option can be used to check the residual memory space.

5.2.3 Delete file



This option can be used to delete the file.

5.3 Printing debugging



5.3.1 Printing self-test page

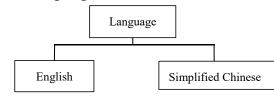
After selecting "Printing self-test page", the printer will automatically print out the internal settings of the printer.

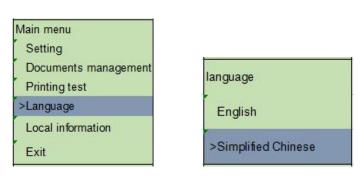
5.3.2 Debugging mode

After this function is selected, the printer will enter the debugging mode.

Note: The "Printing self-test page" and "Debugging mode" are consistent with the functions in the versions without LCD.

5.4 Language





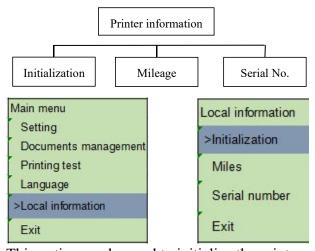
Use this option to set the language to be used for the display screen. When entering this option, the icon ">" refers to the mode set currently.

Press FEED to select the mode to be set.

Press MENU to complete the setting.

Press POWER to cancel the setting and return to the previous menu.

5.5 Printer information



This option can be used to initialize the printer or check the serial number and the mileage printed.

Press FEED to select the mode to be set.

Press MENU to complete the setting.

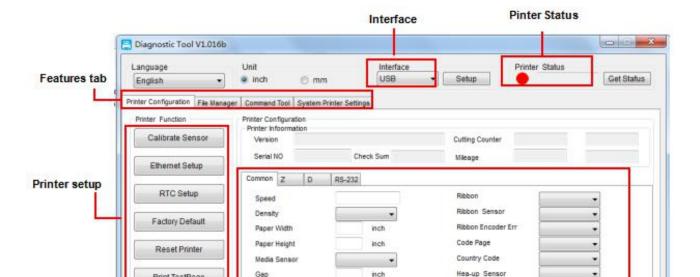
Press POWER to cancel the setting and return to the previous menu.

VI. Diagnostic Tool

Diagnostic Tool is an easy-to-use window-type utility program that allows you to check the current status and settings of the printer, download graphic files, programs, font files, etc., and complete firmware updates according to the actual need. Moreover, it supports creation and download of dot-matrix fonts, transmission of commands or files and so on. By using it, you can complete the printer setup, check the printer status and troubleshoot the printer usage problems more easily.

6.1 Enable the Diagnostic Tool program

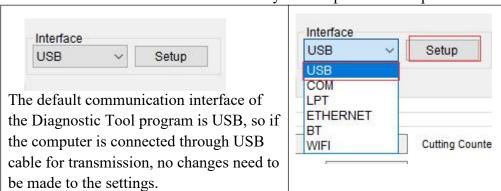
- 1. Move the mouse cursor to the Diagnostic Tool image Diagnostic Tool.exe and double click the left mouse button.
- 2. After it is started, the main screen shows 4 management tabs (printer settings, file management, communication tools, system printer settings).



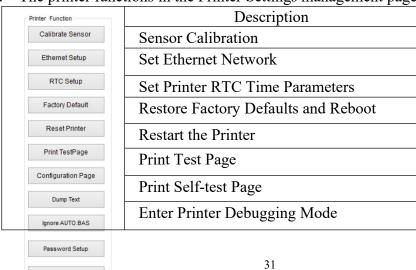
6.2 Printer settings

Exit Line Setup

1. Select the connection interface between your computer and the printer.



- 2. Click on a function you intend to set in the "Printer Settings".
- 3. The printer functions in the Printer Settings management page are described as below:



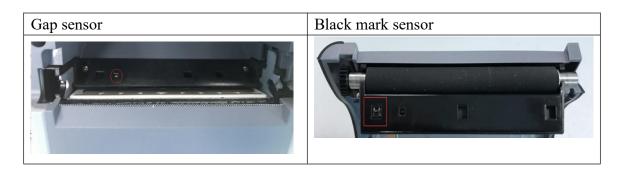
Ignore the AUTO.BAS File
Set the Diagnostic Tool Password

6.3 Calibrate the paper sensor with the Diagnostic Tool

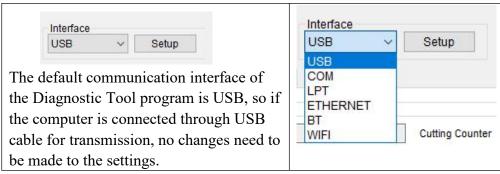
6.3.1 Automatic calibration

1. Make sure that the paper is installed correctly and the print head is closed.

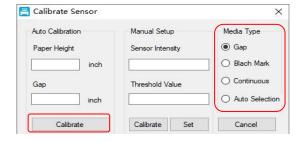
Remark: The gap sensor and black mark sensor of the printer are not movable, so as to ensure that the paper gap or black mark passes through the gap sensor or black mark sensor.



- 2. Turn on the printer.
- 3. Start the Diagnostic Tool and set the transmission interface (the default is USB).



- 4. Click on "Sensor Calibration".
- 5. Select the paper type and click on "Calibration". The printer will automatically feed the paper to calibrate the sensor.



VII. Troubleshooting

7.1 Common problems

The table below shows the common problems the printer operators normally meet and the solutions to them; if you have tried the troubleshooting in the ways we suggest but the printer is still not working properly, please contact the customer service department of the vendor for more assistance.

Problem	Possible cause	Solution
- The power indicator is off.	* The AC socket plug and the	* Check the power connector,
	power supply plug are not	and make sure that the AC
	properly connected to the	socket and the power supply
	socket of the printer.	plug are properly connected
		to the printer.
	* The printer power is not	
	switched on.	* Turn on the power switch.

- The Diagnostic Tool displays "Printer On".	* The print head holder is not closed.	* Close the print head holder.
- The Diagnostic Tool displays "Out of Paper".	* The label paper is used up. * The volume label installation path is incorrect. * The gap/black mark sensor detection is incorrect.	* Install new label paper. * Refer to the steps of label installation and reinstall it. * Recalibrate the label sensor.
- The Diagnostic Tool displays "Paper Jam".	* The gap/black mark sensor detection is incorrect. * The volume label paper size setting is incorrect. * There may be volume label paper stuck inside the printer mechanism.	* Recalibrate the volume label sensor. * Set the correct label size. * Clean the inside of the mechanism.

Problem	Possible cause	Solution
		* Check whether the battery has sufficient
- Unable to	* Low battery	electricity.
print		* Charge the printer.
		* Check whether the battery is damaged.
		* Clear unnecessary files inside FLASH/DRAM.
- The memory		* The DRAM can store up to 256 files.
space is full.	*The FLASH/DRAM	* User can store up to 256KB in DRAM.
(FLASH/	memory space is full.	* The FLASH can store up to 256 files.
DRAM)		* The maximum a user can store in FLASH is
		2560KB.
	* The label paper is	* Reinstall the consumables.
- Poor printing quality	installed incorrectly.	* Clean the print head.
	* There is dust or	* Clean the rubber roller.
	adhesive buildup on	* Adjust the printing density and printing speed of
	the print head.	the printer.

<u></u>		
	* The printing density	* Print out the self-test value to check if the print
	is not set properly.	head is damaged. If yes, replace it.
	* The print head is	* Replace with appropriate label paper.
	damaged.	* If the thickness of the label exceeds 0.22 mm, the
	* The label in use	printing quality may not be good enough. Please
	does not match.	increase the print head pressure first.
	* The print head	* Make sure that the print head holder is fully
	pressure setting is	closed.
	inappropriate.	
	* The label size	* Make sure that the label size setting is correct.
	setting is incorrect or	* Recalibrate the label sensor.
	incomplete.	* Remove dust from the sensor with an air brush.
	* The label has been	
- Paper skip	changed without	
occurs while	recalibrating the	
printing.	sensor.	
	* The label sensor is	
	covered by dust,	
	causing incorrect	
	detection.	

Problem	Possible cause	Solution
- The print position is not correct when printing small volume labels.	* The label sensor setting is incorrect. * The label size setting is incorrect. * The vertical offset setting of the volume label style in the printer driver is incorrect.	* Recalibrate the label sensor. * Set the correct volume label size and volume label gap size. * If the BarTender software is used, set the vertical offset in the printer driver. Sprinter XP Printing Preferences X Page Setup Graphics Stock Options About
	35	Use Current Printer Settings Vertical Offset: 0.0 mm
		OK Cancel Apply Help

- Print missing on	* The label size setting is	* Set the correct label size.
both left and right	incorrect.	
sides.		
- The RTC time is not correct after restarting the printer.	* The battery is dead.	* Check the battery on the main board.
	* There is dirt on the print	* Clean the print head.
- Gray lines appear on	head.	* Clean the rubber roller.
black label paper.	* There is dirt on the rubber	
	roller.	
Unatable mintine	* The printer is in the Hex	* Turn the printer off and on again to
- Unstable printing	Dump mode.	jump out of the Dump mode.

VIII. Simple Maintenance of the Printer

The simple maintenance procedures aim to ensure the printing quality and extend the life of the printer. Below are some of our recommended maintenance procedures.

1. Clean and maintain your printer by using the tools listed below:

Cotton swab

Cotton cloth

Vacuum cleaner or air brush

Medical alcohol

2. Cleaning steps:

Item	Steps	Recommended frequency
Print head	 Turn off the printer. Allow the print head to cool for at least one minute. Wipe the print head surface with a cotton swab dipped in medical alcohol. 	When installing a new roll of label paper

Rubber roller	 Turn off the printer. While rotating the rubber roller, carefully wipe it with a cotton cloth or cotton swab dipped in medical alcohol. 	When installing a new roll of label paper
Paper tearing-off piece	Wipe it with a cotton cloth dipped in medical alcohol.	When needed
Sensor	Remove dust from the sensor with an air brush or vacuum cleaner.	Monthly
Outside of the machine	Wipe it with a wet cotton cloth.	When needed
Inside of the machine	Remove dust from inside of the machine with an air brush or vacuum cleaner.	When needed

Note:

Do not touch the print head directly by hand. If your hand touches it accidentally, wipe it with a cotton swab dipped in medical alcohol.

Use medical alcohol. Do not use industrial alcohol, which may damage the print head.

If your printer displays error messages frequently, clean the sensor of the printer regularly.

The equipment can be used safely in tropical climates.

This is a Class A product that may cause radio interference in a living environment. In such case, users may need to take practical measures accordingly.

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