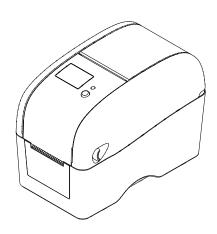
TTP-225 / TTP-323 Series

THERMAL TRANSFER / DIRECT THERMAL BAR CODE PRINTER

USER'S MANUAL



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Copyright Declaration

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1. Introduction

1.1 Product Introduction

Thank you for purchasing TSC bar code printer. Although the printer has a small footprint, it delivers reliable, superior performance.

This printer provides direct thermal printing at user selectable speed of: 2.0, 3.0, 4.0 or 5.0 ips. It accepts roll feed, die-cut, and fan-fold media with gap or black mark. All common bar codes formats are available. Fonts and bar codes can be printed in 4 directions, 8 different alphanumeric bitmap fonts and built-in scalable font capability. You will enjoy trouble free, high throughput for printing labels with this printer.

1.2 Compliances

CE Class B:

EN55022: 1998+A1: 2000+A2: 2003

EN55024: 1998+A1: 2001+A2: 2003 IEC 61000-4 Series EN61000-3-2: 2006 & EN61000-3-3: 1995+A1: 2001

FCC Part 15, Class B UL, CUL: UL60950-1

C-Tick:

CFR 47, Part 15/CISPR 22 3rd Edition: 1997, Class B

ANSI C63.4: 2003 Canadian ICES-003

TÜV/Safety: EN60950-1 / IEC 60950-1

Wichtige Sicherheits-Hinweise

- 1. Bitte lesen Sie diese Hinweis sorgfältig durch.
- 2. Heben Sie diese Anleitung für den späteren Gebrauch auf.
- 3. Vor jedem Reinigen ist das Gerät vom Stromentz zu trennen. Verwenden Sie keine Flüssig-oder Aerosolreiniger. Am besten eignet sich ein angefeuchtetes Tuch zur Reinigung.
- 4. Die Netzanschluß-Steckdose soll nahe dem Gerät angebracht und leicht zugänglich sein.
- 5. Das Gerät ist vor Feuchtigkeit zu schützen.
- 6. Bei der Aufstellung des Gerätes ist auf sicheren Stand zu achten. Ein Kippen oder Fallen könnte Beschädigungen hervorrufen.
- 7. Beachten Sie beim Anschluß ans Stromnetz die Anschlußwerte.
- 8. Dieses Gerät kann bis zu einer Außentemperatur von maximal 40°C betrieben werden.

CAUTION

- 1. HAZARDOUS MOVING PARTS IN CUTTER MODULE. KEEP FINGER AND OTHER BODY PARTS AWAY.
- 2. THE MAIN BOARD INCLUDES REAL TIME CLOCK FEATURE HAS LITHIUM BATTERY CR2032 INSTALLED. RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
- 3. DISPOSE OF USED BATTERIES ACCORDING TO THE MANUFACTURER INSTRUCTIONS.

"ORSICHT"

Explosionsgetahr bei unsachgemen Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem nlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

WARNUNG! GEFÄHRLICHE BEWEGLICHE TEILE – FINGER UND ANDERE KÖRPERTEILE FERNHALTEN!

VORSICHT!

EXPLOSIONSGEFAHR BEI ERSATZ DER BATTERIE DURCH UNZULÄSSIGEN TYP. VERBRAUCHTE BATTERIEN IMMER VORSCHRIFTSGEMÄSS ENTSORGEN!

B 급기기

(가정용 정보통신기기) 이 기기는 가정용으로 전자파 적합등록을 한 기기로서 주거지역에서는 물론 모든 지역에서 사용할 수 있습니다.

Note:

The maximum printing ratio per dot line is 15% for this printer. To print the full web black line, the maximum black line height is limited to 40 dots, which is 5mm for 203 DPI resolution printer and 3.3mm for 300 DPI resolution printer.

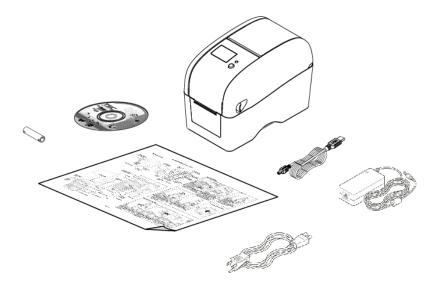
2. Operations Overview

2.1 Unpacking and Inspection

This printer has been specially packaged to withstand damage during shipping. Please carefully inspect the packaging and printer upon receiving the bar code printer. Please retain the packaging materials in case you need to reship the printer.

Unpacking the printer, the following items are included in the carton.

- One printer unit
- One Windows labeling software/Windows driver CD disk
- One quick installation guide
- One power cord
- One auto switching power supply
- One USB interface cable
- One paper core



If any parts are missing, please contact the Customer Service Department of your purchased reseller or distributor.

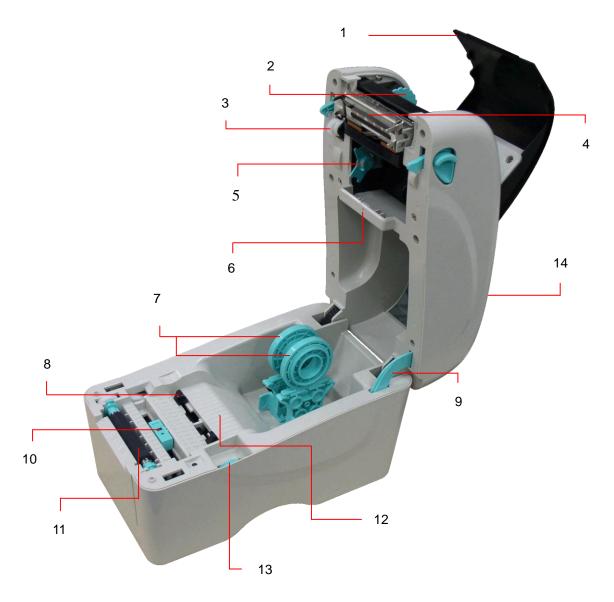
2.2 Printer Overview

2.2.1 Front View



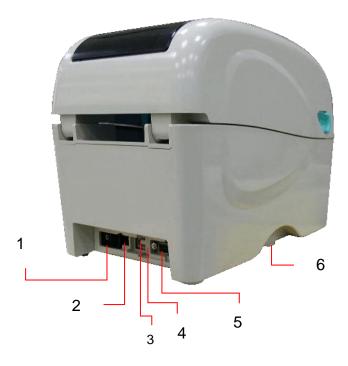
- 1. LCD display (Factory option)
- 2. LED indicator
- 3. Feed button
- 4. Paper exit chute
- 5. Media view window
- 6. Top cover open lever

2.2.2 Interior View



- 1. Ribbon access cover
- 2. Ribbon rewind hub
- 3. Ribbon rewind gear
- 4. Print head
- 5. Ribbon supply hub
- 6. Gap sensor (receiver)
- 7. Media holders
- 8. Media guide
- 9. Top cover support
- 10. Black mark sensor
- 11. Platen roller
- 12. Gap sensor (transmitter)
- 13. Media guide adjuster knob
- 14. Top cover

2.2.3 Rear View



- 1. Power switch
- 2. Power jack socket
- 3. USB interface
- 4. USB host (Factory option)
- 5. RS-232C interface / Ethernet interface (Option)
- 6. SD card socket

Note:

- * The interface picture is for reference only. Please refer to the product specification for the interface availability.
- * Recommended MicroSD card specification.

SD card spec	SD card capacity	Approved SD card manufacturer
V1.0, V1.1	MicroSD 128 MB	Transcend, Panasonic
V1.0, V1.1	MicroSD 256 MB	Transcend, Panasonic
V1.0, V1.1	MicroSD 512 MB	Transcend, Panasonic
V1.0, V1.1	MicroSD 1 GB	Transcend, Panasonic
V2.0 SDHC CLASS 6	MicroSD 4 GB	Transcend

- The DOS FAT file system is supported for the SD card.
- Folders/files stored in the SD card should be in the 8.3 filename format

3. Setup

3.1 Setting Up the Printer

- 1. Place the printer on a flat, secure surface.
- 2. Make sure the power switch is set to "off".
- 3. Connect the printer to the computer with the provided USB cable.
- 4. Plug the power cord into the AC power cord socket at the rear of the printer, and then plug the power cord into a properly grounded power outlet.

Note: Please switch OFF printer power switch prior to plug in the power cord to printer power jack.

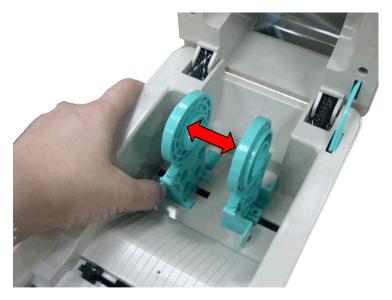
3.2 Loading the Media

3.2.1 Loading the Media

1. Open the printer top cover by pulling the tabs located on each side towards the front of the printer, and then lift the top cover to the maximum open angle.



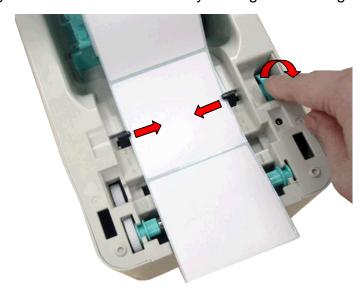
3. Separate the media holders to the label roll width.



4. Place the roll between the holders and close them onto the core. Place the paper, printing side face up, through the media guides, media sensor and place the label leading edge onto the platen roller.



5. Move the media guides to fit the label width by turning the media guide adjuster knob.



6. Hold the top cover and press the top cover support to disengage the top cover support with lower inner cover. Gently close the top cover. Make sure the cover latches securely.



7. Use "Diagnostic Tool" to set the media sensor type and calibrate the selected sensor.

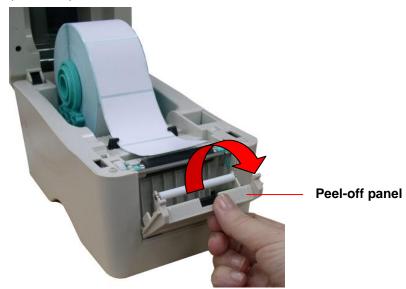
(Start the "Diagnostic tool" → Select the "Printer Configuration" tab → Click the "Calibrate Sensor" button)

Note:

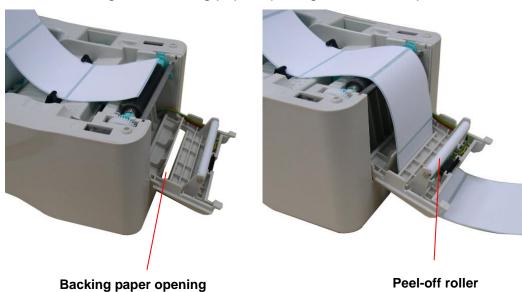
- * Please calibrate the gap/black mark sensor when changing media.
- * Please refer to videos on TSC YouTube or driver CD.

3.2.2 Loading Media in Peel-off Mode (Option)

- 1. Refer to section 3.2.1 to load the media.
- 2. Open the top cover and peel-off panel after calibrated the sensor.



3. Lead the media through the backing paper opening, beneath the peel-off roller.



4. Push the peel-off panel back to the printer.



- 5. Close the top cover gently.
- 6. Press the FEED button to test.

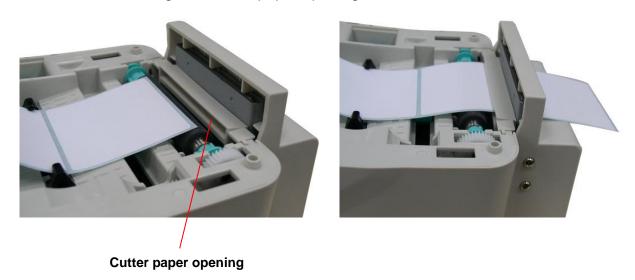


Note:

Please calibrate the gap/black mark sensor when changing media.

3.2.3 Loading Media in Cutter Mode (Option)

- 1. Refer to section 3.2.1 to load the media.
- 2. Lead the media through the cutter paper opening.



3. Close the top cover gently.



4. Use "Diagnostic Tool" to set the media sensor type and calibrate the selected sensor. (Start the "Diagnostic tool" → Select the "Printer Configuration" tab → Click the "Calibrate Sensor" button)

Note:

- * Please calibrate the gap/black mark sensor when changing media.
- * Regular cutter specification:

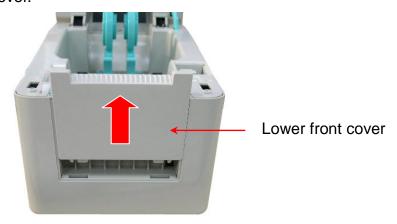
Full cut: Paper thickness: 0.06 ~ 0.19 mm, 200,000 cuts

Partial cut: Paper thickness: 0.06 ~ 0.12 mm, 500,000 cuts

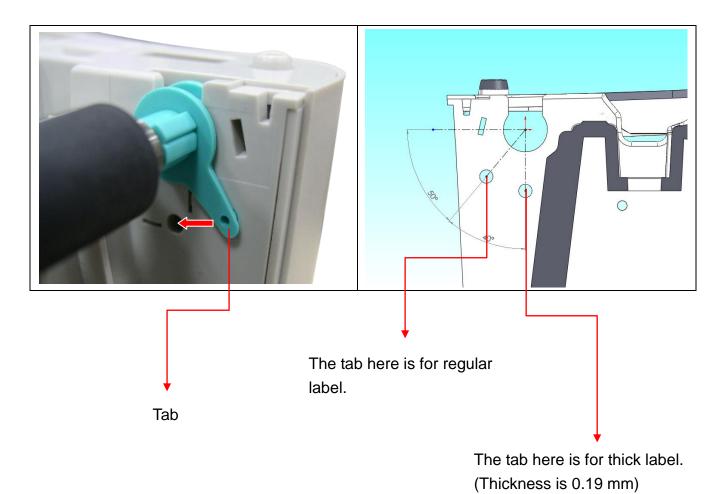
* Except for the linerless cutter, all regular/heavy duty/care label cutters DO NOT cut on media with glue.

3.2.4 Loading the Thick Media (Thickness is 0.19 mm)

- 1. Open the printer top cover by pulling the tabs located on each side towards the front of the printer, and then lift the top cover to the maximum open angle.
- 2. Remove the lower front cover.



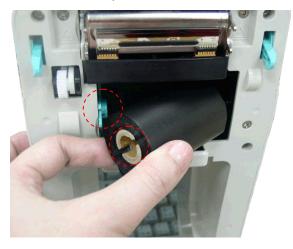
3. Disengage the platen holder tabs from the lower inner cover by pulling out the right side and left side tabs. Alter the both side tabs into the 90 degree position for thick label.



- 4. Reassemble the lower front cover in the reverse procedure.
- 5. Refer to section 3.2.1 to load the media.

3.3 Loading the Ribbon

- 1. Open the printer's top cover by pulling the top cover open levers located on each side of the printer and lifting the top cover to the maximum open angle.
- 2. Insert the ribbon right side onto the supply hub. Align the notches on the left side and mount onto the spokes.

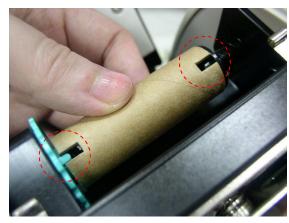




3. Open the ribbon access cover.



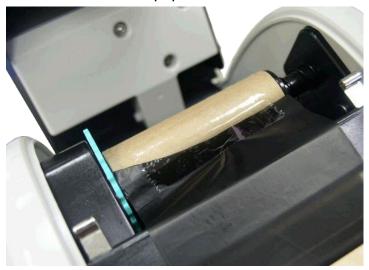
4. Insert the paper core right side onto the rewind hub. Align the notches on the left side and mount onto the spokes.



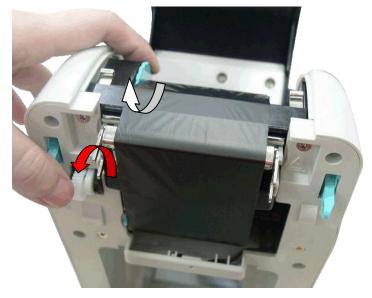
5. Pull the leading ribbon to pass the print head.



6. Stick the ribbon onto the ribbon rewind paper core.



7. Turn the ribbon rewind gear until the ribbon plastic leader is thoroughly wound and the black section of the ribbon covers the print head. Close the ribbon access cover and the top cover.



Note:

Please refer to videos on TSC YouTube or driver CD.

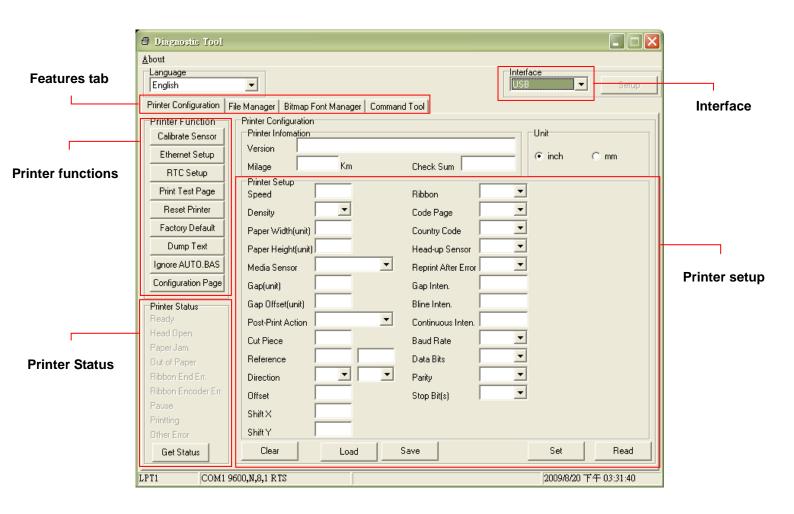
3.4 Diagnostic Tool

The Diagnostic Utility is enclosed in the CD disk \Utilities directory or can be downloaded from www.tscprinters.com website. The Diagnostic Utility is a toolbox that allows users to explore the printer's settings and status; change printer settings; download graphics, fonts, and firmware; create printer bitmap fonts; and to send additional commands to the printer. Using this convenient tool, you can explore the printer status and settings and troubleshoot the printer.

Note: This utility works with printer firmware V6.00 and later versions.

3.4.1 Start the Diagnostic Tool

- 1. Double click on the Diagnostic tool icon DiagToolexe to start the software.
- 2. There are four features (Printer Configuration, File Manager, Bitmap Font Manager, Command Tool) included in the Diagnostic utility.



3.4.2 Printer Function (Calibrate sensor, Ethernet setup, RTC setup......)

- 1. Select the PC interface connected with bar code printer.
- 2. Click the "Function" button to setting.
- 3. The detail functions in the Printer Function Group are listed as below.

	Function	Description
Printer Function Calibrate Sensor	Calibrate Sensor	Calibrate the sensor specified in the Printer Setup group media sensor field
Ethernet Setup	Ethernet Setup	Setup the IP address, subnet mask, gateway for the on board Ethernet (Please refer to next section)
Print Test Page	RTC Setup	Synchronize printer Real Time Clock with PC
Reset Printer	Print Test Page	Print a test page
Factory Default	Reset Printer	Reboot printer
Dump Text	Factory Default	Initialize the printer and restore the settings to factory default.
Ignore AUTO.BAS	Dump Text	To activate the printer dump mode.
Configuration Page	Ignore AUTO.BAS	Ignore the downloaded AUTO.BAS program
	Configuration Page	Print printer configuration

Note:

For more information about Diagnostic Tool, please refer to the diagnostic utility quick start guide in the CD disk \ Utilities directory.

3.5 Setting Ethernet by Diagnostic Utility (Option)

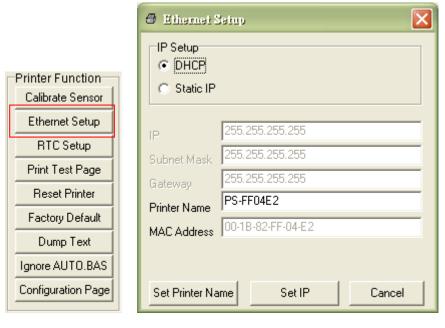
The Diagnostic Utility is enclosed in the CD disk \Utilities directory or can be downloaded from www.tscprinters.com website. Users can use Diagnostic Tool to setup the Ethernet by USB and Ethernet interfaces. The following contents will instruct users how to configure the Ethernet by these interfaces.

3.5.1 Using USB interface to setup Ethernet interface

- 1. Connect the USB cable between the computer and the printer.
- 2. Turn on the printer power.
- 3. Start the Diagnostic Utility by double clicking on the Diagnostic Utility by double clicking on the Note: This utility works with printer firmware V6.00 and later versions.
- 4. The Diagnostic Utility default interface setting is USB interface. If USB interface is connected with printer, no other settings need to be changed in the interface field.



5. Click on the "Ethernet Setup" button from "Printer Function" group in Printer Configuration tab to setup the IP address, subnet mask and gateway for the on board Ethernet.



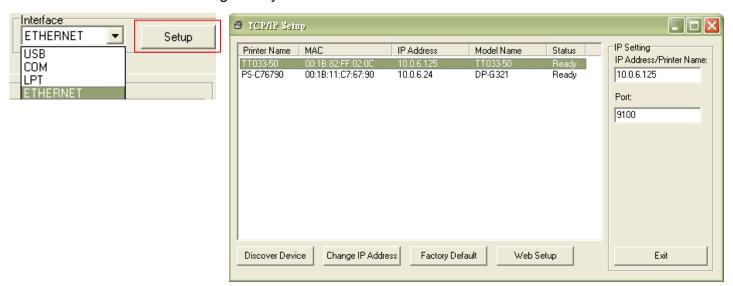
3.5.2 Using Ethernet interface to setup Ethernet interface

- 1. Connect the computer and the printer to the LAN.
- 2. Turn on the printer power.
- 3. Start the Diagnostic Utility by double clicks on the

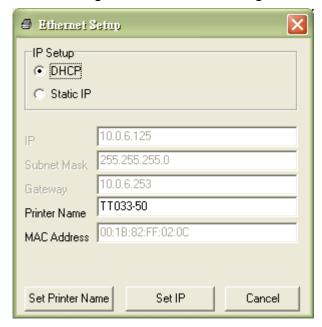
 DiagToolexe icon.

Note: This utility works with printer firmware V6.00 and later versions.

4. Select "Ethernet" as the interface then click on the "Setup" button to setup the IP address, subnet mask and gateway for the on board Ethernet.



- 5. Click the "Discover Device" button to explore the printers that exist on the network.
- 6. Select the printer in the left side of listed printers, the correspondent IP address will be shown in the right side "IP address/Printer Name" field.
- 7. Click "Change IP Address" to configure the IP address obtained by DHCP or static.



The default IP address is obtained by DHCP. To change the setting to static IP address, click "Static IP" radio button then enter the IP address, subnet mask and gateway. Click

"Set IP" to take effect the settings.

Users can also change the "Printer Name" by another model name in this fields then click "Set Printer Name" to take effect this change.

Note: After clicking the "Set Printer Name" or "Set IP" button, printer will reset to take effect the settings.

8. Click "Exit" button to exit the Ethernet interface setup and go back to Diagnostic Tool main screen.

Factory Default button

This function will reset the IP, subnet mask, gateway parameters obtained by DHCP and reset the printer name.

Web setup button

Except to use the Diagnostic Utility to setup the printer, you can also explore and configure the printer settings and status or update the firmware with the IE or Firefox web browser. This feature provides a user friendly setup interface and the capability to manage the printer remotely over a network.

3.6 Install MicroSD Memory Card

1. Open the SD memory card cover.



2. Insert the MicroSD card into the socket.



3. Close the memory card cover.



* Recommended SD card specification.

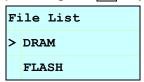
SD card spec	SD card capacity	Approved SD card manufacturer
V1.0, V1.1	MicroSD 128 MB	Transcend, Panasonic
V1.0, V1.1	MicroSD 256 MB	Transcend, Panasonic
V1.0, V1.1	MicroSD 512 MB	Transcend, Panasonic
V1.0, V1.1	MicroSD 1 GB	Transcend, Panasonic
V2.0 SDHC CLASS 6	MicroSD 4 GB	Transcend

⁻ The DOS FAT file system is supported for the SD card.

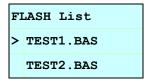
Folders/files stored in the SD card should be in the 8.3 filename format

3.7 Using the PC USB Keyboard with Printer USB Host Interface (Factory option)

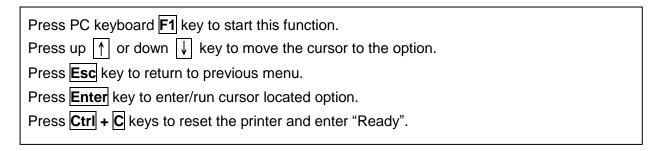
- 1. Turn off the printer power.
- 2. Plug in the PC USB keyboard into printer USB host interface.
- 3. Turn on the printer power.
- 4. After pressing the F1 key of the keyboard, the printer LCD will display as following.



- 5. Use up ↑ or down ↓ key of the keyboard to move ">" cursor to select either DRAM, FLASH or CARD that you previously saved file in and press Enter key of the keyboard to list files.
- 6. Select the file and press **Enter** key to run the .BAS program.



7. Then, you can enter the data from keyboard for stand-alone application.



4. LED and Button Functions

This printer has one button and one three-color LED indicator. By indicating the LED with different color and pressing the button, printer can feed labels, pause the printing job, select and calibrate the media sensor, print printer self-test report, reset printer to defaults (initialization). Please refer to the button operation below for different functions.

4.1 LED Indicator

LED Color	Description
Green/ Solid	This illuminates that the power is on and the device is ready to use.
Green/ Flash	This illuminates that the system is downloading data from PC to memory or the printer is paused.
Amber	This illuminates that the system is clearing data from printer.
Red / Solid	This illuminates printer head open, cutter error.
Red / Flash	This illuminates a printing error, such as head open, paper empty, paper jam or memory error etc.

4.2 Regular Button Function

1. Feed labels

When the printer is ready, press the button to feed one label to the beginning of next label.

2. Pause the printing job

When the printer is printing, press the button to pause a printing job. When the printer is paused, the LED will be green blinking. Press the button again to continue the printing job.

4.3 Power on Utilities

There are six power-on utilities to set up and test printer hardware. These utilities are activated by pressing FEED button then turning on the printer power simultaneously and release the button at different color of LED.

Please follow the steps below for different power-on utilities.

- 1. Turn off the power switch.
- 2. Hold on the button then turn on the power switch.
- 3. Release the button when LED indicates with different color for different functions.

Power on utilities	The LE	D color v	will be ch	anged a	s following p	attern:	
LED color	Amber	Red	Amber	Green	Green/Amber	Red/Amber	Solid green
Functions		(5 blinks)	(5 blinks)	(5 blinks)	(5 blinks)	(5 blinks)	
1. Gap / black mark sensor calibration		Release					
2. Gap / black mark sensor calibration,			Release				
Self-test and enter dump mode							
3. Printer initialization				Release			
4. Set black mark sensor as media					Release		
sensor and calibrate the black mark							
sensor							
5. Set gap sensor as media sensor and						Release	
calibrate the gap sensor							
6. Skip AUTO.BAS							Release

4.3.1 Gap/Black Mark Sensor Calibration

Gap/black mark sensor sensitivity should be calibrated at the following conditions:

- 1. A brand new printer
- 2. Change label stock.
- 3. Printer initialization.

Please follow the steps below to calibrate the gap/black mark 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 **red** and blinking. (Any red will do during the 5 blinks).
- It will calibrate the gap/black mark sensor sensitivity.
- The LED color will be changed as following order:

Amber \rightarrow red (5 blinks) \rightarrow amber (5 blinks) \rightarrow green (5 blinks) \rightarrow green/amber (5 blinks) \rightarrow red/amber (5 blinks) \rightarrow solid green

Note:

- 1. Sensor calibration can be done by Diagnostic Tool or by power on utility. Please refer to "3.3 Diagnostic Tool" Section for more information.
- 2. Please select gap or black mark sensor type prior to calibrate the sensor.

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.

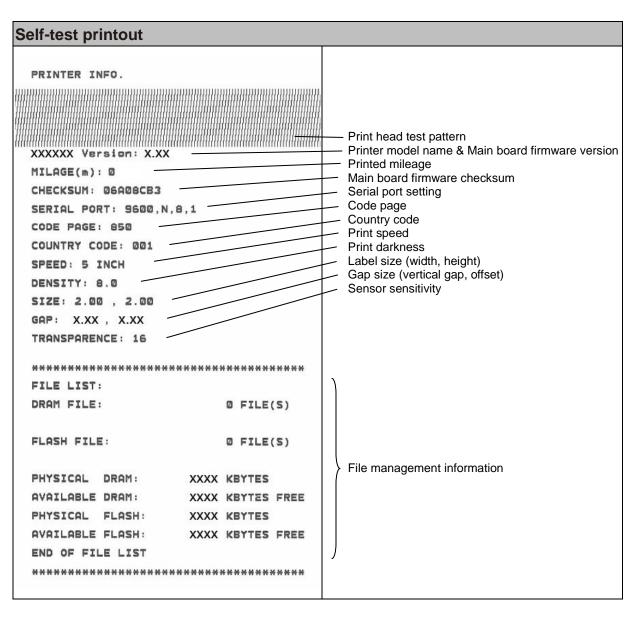
- 1. Turn off the power switch.
- 2. Hold on the button then turn on the power switch.
- 3. Release the button when LED becomes **amber** and blinking. (Any amber will do during the 5 blinks)
- The LED color will be changed as following order.
 Amber → red (5 blinks) → amber (5 blinks) → green (5 blinks) → green/amber (5 blinks)
 → red/amber (5 blinks) → solid green
- 4. It calibrates the sensor and measures the label length and prints internal settings then enter the dump mode.

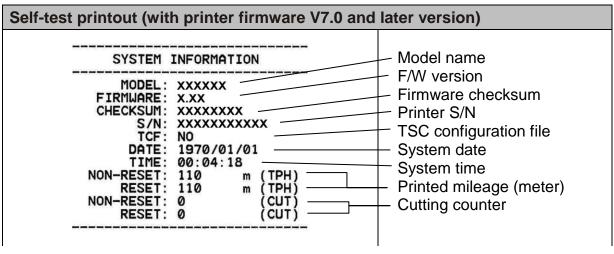
Note:

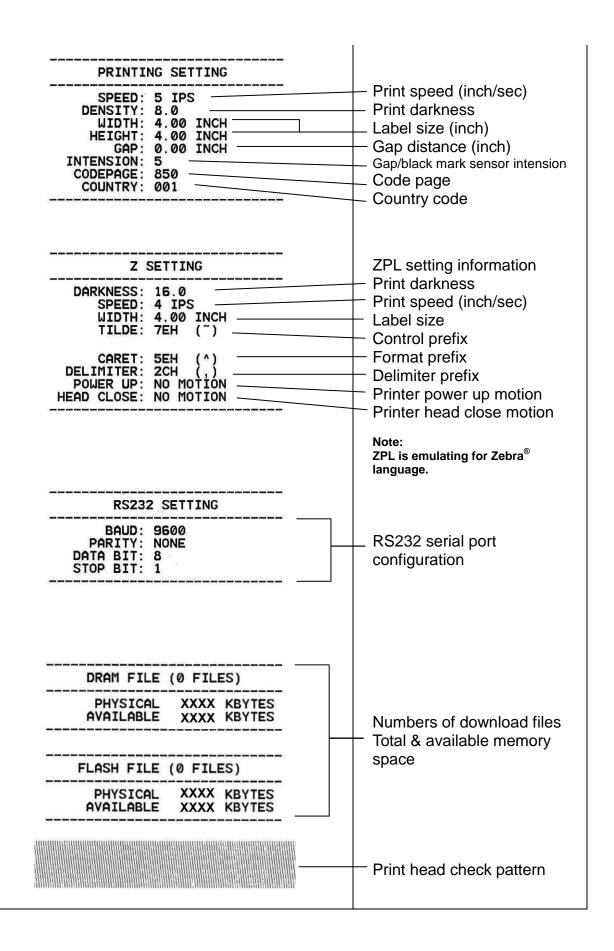
- 1. Sensor calibration can be done by Diagnostic Tool or by power on utility.
- 2. Please select gap or black mark sensor type prior to calibrate the sensor.

Self-test

Printer will print the printer configuration after gap/black mark sensor calibration. Self-test printout can be used to check if there is any dot damage on the heater element, printer configurations and available memory space.

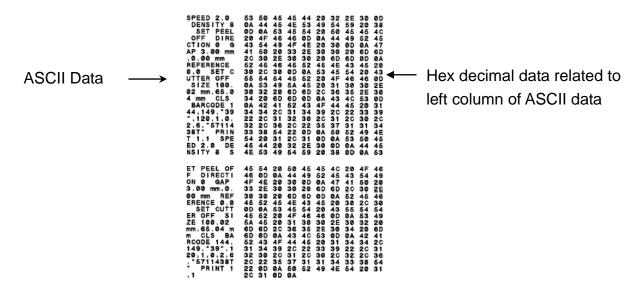






■ Dump mode

Printer will enter dump mode after printing printer configuration. In the dump mode, all characters will be printed in 2 columns as following. The left side characters are received from your system and right side data are the corresponding hexadecimal value of the characters. It allows users or engineers to verify and debug the program.



Note:

- 1. Dump mode requires 2" wide paper width.
- 2. Turn off / on the power to resume printer for normal printing.
- 3. Press FEED button to back to the previous menu.

4.3.3 Printer Initialization

Printer initialization is used to clear DRAM and restore printer settings to defaults.

Printer initialization is activated by the following procedures.

- 1. Turn off the power switch.
- 2. Hold on the button then turn on the power switch.
- 3. Release the button when LED turns **green** after 5 amber blinks. (Any green will do during the 5 blinks).
- The LED color will be changed as following:
 Amber → red (5 blinks) → amber (5 blinks) → green (5 blinks) → green/amber (5 blinks)
 → red/amber (5 blinks) → solid green

Printer configuration will be restore to defaults as below after initialization.

Parameter	Default setting	
Speed	127 mm/sec (5 ips) (203DPI)	

	76.2 mm/sec (3 ips) (300DPI)
Density	8
Label Width	2" (50.8 mm)
Label Height	2" (50.8 mm)
Sensor Type	Gap sensor
Gap Setting	0.12" (3.0 mm)
Print Direction	0
Reference Point	0,0 (upper left corner)
Offset	0
Tear Mode	On
Peel off Mode	Off
Cutter Mode	Off
Serial Port Settings	9600 bps, none parity, 8 data bits, 1 stop bit
Code Page	850
Country Code	001
Clear Flash Memory	No
IP Address	DHCP

4.3.4 Set Black Mark Sensor as Media Sensor and Calibrate the Black Mark Sensor

Please follow the steps as below.

- 1. Turn off the power switch.
- 2. Hold on the button then turn on the power switch.
- 3. Release the button when LED turns **green/amber** after 5 green blinks. (Any green/amber will do during the 5 blinks).
- The LED color will be changed as following:
 Amber → red (5 blinks) → amber (5 blinks) → green (5 blinks) → green/amber (5 blinks)
 → red/amber (5 blinks) → solid green

4.3.5 Set Gap Sensor as Media Sensor and Calibrate the Gap Sensor

Please follow the steps as below.

- 1. Turn off the power switch.
- 2. Hold on the button then turn on the power switch.
- 3. Release the button when LED turns **red/amber** after 5 green/amber blinks. (Any red/amber will do during the 5 blinks).
- The LED color will be changed as following:

Amber \rightarrow red (5 blinks) \rightarrow amber (5 blinks) \rightarrow green (5 blinks) \rightarrow green/amber (5 blinks) \rightarrow solid green

4.3.6 Skip AUTO.BAS

TSPL2 programming language allows user to download an auto execution file to flash memory. Printer will run the AUTO.BAS program immediately when turning on printer power. The AUTO.BAS program can be interrupted without running the program by the power-on utility.

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 green.
- The LED color will be changed as following:
 Amber → red (5 blinks) → amber (5 blinks) → green (5 blinks) → green/amber (5 blinks)
 → red/amber (5 blinks) → solid green
- 4. Printer will be interrupted to run the AUTO.BAS program.

5. Troubleshooting

The following guide lists the most common problems that may be encountered when operating this bar code printer. If the printer still does not function after all suggested solutions have been invoked, please contact the Customer Service Department of your purchased reseller or distributor for assistance.

5.1 LED Status

This section lists the common problems that according to the LED status and other problems you may encounter when operating the printer. Also, it provides solutions.

LED Status	Printer	Possible Cause	Recovery Procedure
/ Color	Status		
OFF	No response	No power	* Turn on the power switch.
			* Check if the green LED is lit on power supply. If
			it is not lit on, power supply is broken.
			* Check both power connections from the power
			cord to the power supply and from the power
			supply to the printer power jack if they are
			connected securely.
Solid Green	ON	The printer is ready to	* No action necessary.
		use	
Green with	Pause	The printer is paused * Press the FEED button to resume for printing.	
blinking			
Red with	Error	The out of label or the	1. Out of label
blinking		printer setting is not	* Load a roll of label and follow the instructions in
		correct loading the media then press the FEED butto	
		resume for printing.	
		2. Printer setting is not correct	
		* Initialize the printer by instructions in "Power	
			Utility" or "Diagnostic Tool".

Note:

Printer status can be easily shown on the Diagnostic Tool. For more information about the Diagnostic Tool, please refer to the instruction in the software CD disk.

5.2 Print Problem

Problem	Possible Cause	Recovery Procedure		
	Check if interface cable is well	Re-connect cable to interface.		
	connected to the interface connector.			
	The serial port cable pin configuration is	Please replace the cable with pin to pin		
	not pin to pin connected.	connected.		
Not Drinting	The serial port setting is not consistent	Please reset the serial port setting.		
Not Printing	between host and printer.			
	The port specified in the Windows driver	Select the correct printer port in the		
	is not correct.	driver.		
	The Ethernet IP, subnet mask, gateway	Configure the IP, subnet mask and		
	is not configured properly.	gateway.		
No print on the label	Label loaded not correctly.	Follow the instructions in loading the		
No print on the laber	Laber loaded flot correctly.	media.		
Continuous feeding	The printer setting may go wrong.	Please do the initialization and		
labels	The printer setting may go wrong.	gap/black mark calibration.		
	Gap/black mark sensor sensitivity is not	Calibrate the gap/black mark sensor.		
	set properly (sensor sensitivity is not			
	enough)			
Paper Jam	Make sure label size is set properly.	Set label size exactly as installed paper in the labeling software or program.		
	Labels may be stuck inside the printer	Remove the stuck label.		
	mechanism near the sensor area.			
	Top cover is not closed properly.	Close the top cover completely and make sure the right side and left side levers are latched properly.		
	Wrong power supply is connected with	Check if 24V DC output is supplied by the power supply.		
	printer.	the power suppry.		
	Check if supply is loaded correctly.	Reload the supply.		
Poor Print Quality	Check if dust or adhesives are	Clean the print head.		
	accumulated on the print head.			
	Check if print density is set properly.	Adjust the print density and print speed.		
	Check print head test pattern if head	Run printer self-test and check the print head test pattern if there is dot missing		
	element is damaged.	in the pattern.		

5.3 LCD display (Factory option)

This section lists the LCD display messages that you may encounter when operating the printer. Also, it provides solutions.

Messages	Possible Cause	Recovery Procedure		
Head Open	* The printer top cover is open.	* Please close the top cover.		
No Paper	* Running out of label. * The label is installed incorrectly. * Gap/black mark sensor is not calibrated.	* Supply a new label roll. * Please refer to the steps in user's manual to reinstall the label roll. * Calibrate the gap/black mark sensor.		
Paper Jam	* Gap/black mark sensor is not set properly. * Make sure label size is set properly. * Labels may be stuck inside the printer mechanism.	* Calibrate the gap/black mark sensor. * Set label size correctly.		
Out of Mem	* The space of FLASH/DRAM or MicroSD card is full.	* Delete unused files in the FLASH/DRAM or MicroSD card.		
Take Label	* Peel function is enabled. Waiting user to take label away to print the next label.	* Please take the label away to print the next label if peeler module is installed. * If peeler module is installed and label is been taken away, but the message remains. Please check if the peeler module connector is connected to main board properly. * If peeler module is not installed, please disable the peeler function.		
Cutter Error	* Cutter jam. * There is no cutter installed on the printer. * Cutter or cutter driver circuit board is damaged.	* Remove the jammed label. * Make sure the media thickness is equal or less than 0.19mm. * Replace the cutter or cutter driver circuit board.		

6. Maintenance

This session presents the clean tools and methods to maintain your printer.

- 1. Please use one of following material to clean the printer.
- Cotton swab (Head cleaner pen)
- Lint-free cloth
- Vacuum / Blower brush
- 100% ethanol
- 2. The cleaning process is described as following:

2. The cleaning process is described as following:			
Method	Interval		
1. Always turn off the printer before cleaning the print head. 2. Allow the print head to cool for a minimum of one minute. 3. Use a cotton swab and 100% ethanol to clean the print head surface. Print Head Element	Clean the print head when changing a new label roll		
Head Cleaner Pen	Element		
1. Turn the power off.	Clean the platen roller when changing		
Rotate the platen roller and wipe it thoroughly with 100% ethanol and a cotton swab, or lint-free cloth.	a new label roll		
Use the lint-free cloth with 100% ethanol to	As needed		
wipe it.			
Compressed air or vacuum	Monthly		
Wipe it with water-dampened cloth	As needed		
Brush or vacuum	As needed		
	Method 1. Always turn off the printer before cleaning the print head. 2. Allow the print head to cool for a minimum of one minute. 3. Use a cotton swab and 100% ethanol to clean the print head surface. Print Head Element Print Head Element 1. Turn the power off. 2. Rotate the platen roller and wipe it thoroughly with 100% ethanol and a cotton swab, or lint-free cloth. Use the lint-free cloth with 100% ethanol to wipe it. Compressed air or vacuum Wipe it with water-dampened cloth		

Note:

• Do not touch printer head by hand. If you touch it careless, please use ethanol to clean it.

- Please use 100% Ethenol. DO NOT use medical alcohol, which may damage the printer head.
- Regularly clean the print head and supply sensors once change a new media to keep printer performance and extend printer life.
- The maximum printing ratio per dot line is 15% for this printer. To print the full web black line, the maximum black line height is limited to 40 dots, which is 5mm for 203 DPI resolution printer and 3.3mm for 300 DPI resolution printer.

Revise History

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