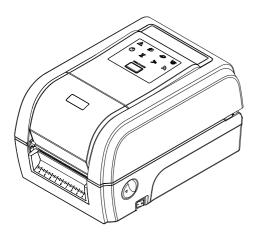
TX200/ TX300/ TX600 Series

THERMAL TRANSFER / DIRECT THERMAL BAR CODE PRINTER

USER'S MANUAL



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Agency Compliance and Approvals

CE	EN 55022, Class B EN 55024 EN 60950-1
F©	FCC part 15B, Class B
\bigotimes	AS/NZS CISPR 22, Class B
CUL US LISTED I.T.E. E178707	UL 60950-1
	EN 60950-1
	GB 4943.1 GB 9254 GB 17625.1

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 $^\circ\!C$ betrieben werden.

Battery safety warning:

DO NOT throw the battery in fire.

- DO NOT short circuit the contacts.
- DO NOT disassemble the battery.

DO NOT throw the battery in municipal waste.

The symbol of the crossed out wheeled bin indicates that the battery should not be placed in municipal waste.

CAUTION

Risk of explosion if battery is replaced by an incorrect type.

Dispose of used batteries according to the instructions.

"VORSICHT"

Explosionsgefahr bei unsachgemäßen Austaush der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angabren des Herstellers.

FCC STATEMENT :

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/ TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003 Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

CAUTION :

HAZARDOUS MOVING PARTS, KEEP FINGER AND OTHER BODY PARTS AWAY.

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1. Introduction

1.1 Product Introduction

Thank you very much for purchasing TSC bar code printer.

The TX200 series of thermal transfer desktop barcode printers supports more printing applications than any other printer in its class. With three models available, the four inch wide TX200 series can address everything from higher volume 4x6 shipping labels, higher resolution product marking and graphic solutions, to high resolution labels used in electronics marking applications.

The printers use a large 300 meter ribbon supply on a one inch core that saves both time and money. The TX200 series features a user-friendly spring-loaded center-biased clamshell design for easy drop-in media loading of 5-inch rolls of media. The printer construction features a rugged double-wall design that is stronger and more durable than other thermal transfer mechanisms on the market. Its strong motor is powerful enough to handle a 300-meter-long ribbon.

As with all TSC printers, the TX200 Series features the TSPL-EZ[™] printer-control language, which is fully compatible with other TSC printer languages, while supporting TPLE (Translation Printer Language Eltron®) and TPLZ (Translation Printer Language Zebra®). The languages automatically decipher and translate the format of each label as it is sent to the printer. TSPL-EZ[™] also features internal scalable True Type fonts (based on the Monotype® font engine), which are typically found only in more expensive printers. Applications:

- Business/Office
- Product Marking
- Compliance Labeling
- Asset Tracking
- Document Management
- Shelf-Labeling
- Shipping/Receiving
- Specimen Labeling
- Inventory Control
- Patient Tracking

1.2 Product Features

1.2.1 Printer Standard Features

The printer offers the following standard features.

Product standard feature	200 dpi model	300 dpi model	600 dpi model
Thermal transfer/ or direct thermal	0	0	0
LED icon panel with 1 button	0	0	-
3.5" TFT LCD with 6 buttons	-	-	0
32-bit RISC high performance processor	0	0	0
Gap transmissive sensor (Fixed, center of offset 4 to right or 7 mm to left from center)	0	0	0
Black mark reflective sensor (Position adjustable)	0	0	0
See-through ribbon end sensor	-	-	\bigcirc
Ribbon encoder sensor For single printing, the label length should be more than 3 mm. 39.4mm is the threshold of ribbon low detection. The ribbon LED becomes blinking if ribbon supply roll diameter is less than 39.4 mm.	0	0	0
Head open sensor	\bigcirc	\bigcirc	\bigcirc
128MB Flash memory	0	\bigcirc	0
128 MB DDR2 DRAM	0	\bigcirc	0
Micro SD card reader for memory expansion, up to SDHC 32GB	\bigcirc	\bigcirc	\bigcirc
RS-232 interface (Max. 115,200 bps)	0	0	0
USB 2.0 interface (Hi-speed mode)	0	\bigcirc	0
Internal Ethernet print server (10/100 Mbps) interface	-	-	\bigcirc
USB host	\bigcirc	\bigcirc	\bigcirc
Real time clock & Buzzer	-	-	0
Standard industry emulations right out of the box including Eltron [®] and Zebra [®] language support	0	0	0
Internal 8 alpha-numeric bitmap fonts	\bigcirc	\bigcirc	\bigcirc
Fonts and bar codes can be printed in any one of the four directions (0, 90,180, 270 degree)	0	0	0
Internal Monotype Imaging [®] true type font engine with one CG Triumvirate Bold Condensed scalable font	0	0	0
Downloadable fonts from PC to printer memory	0	0	0
Clean print head warning	\bigcirc	\bigcirc	\bigcirc

Bar code, graphics/image p	rinting				
Supported bar code		Supported image			
1D bar code Code128 subsets A.B.C, Code128UCC, EAN128, Interleave 2 of 5, Code 39, Code 93, EAN-13, EAN-8, Codabar, POSTNET, UPC-A, UPC-E, EAN and UPC 2(5) digits, MSI, PLESSEY, China Post, ITF14, EAN14, Code 11, TELPEN, PLANET, Code 49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS	2D bar code CODABLOCK F mode, DataMatrix, Maxicode, PDF- 417, Aztec, MicroPDF417, QR code, RSS Barcode (GS1 Databar)	BITMAP, BMP, PCX (Max. 256 colors graphics)	0	0	0
Supported code page:					
 Codepage 437 (Eng Codepage 737 (Gree Codepage 850 (Latin Codepage 852 (Latin Codepage 855 (Cyri Codepage 855 (Cyri Codepage 860 (Port Codepage 861 (Icela Codepage 862 (Heb Codepage 863 (Free Codepage 864 (Arab Codepage 865 (Nord Codepage 866 (Rus Codepage 866 (Rus Codepage 866 (Rus Codepage 869 (Gree Codepage 936 (Sim) Codepage 936 (Sim) Codepage 936 (Sim) Codepage 936 (Sim) Codepage 932 (Japa Codepage 932 (Japa Codepage 1250 (Lati Codepage 1250 (Lati Codepage 1251 (Cy) Codepage 1252 (Lati Codepage 1253 (Gree Codepage 1254 (Turi Codepage 1255 (He Codepage 1257 (Ba Codepage 1257 (Ba Codepage 1257 (Ba Codepage 1257 (Ba Codepage 1258 (Vie) ISO-8859-1: Latin-1 ISO-8859-2: Latin-2 ISO-8859-3: Latin-3 ISO-8859-4: Latin-4 ISO-8859-5: Cyrillic ISO-8859-6: Arabic ISO-8859-7: Greek ISO-8859-8: Hebrew 	ek) h-1) h-2) llic) sish) uguese) andic) rew) hch Canadian) bic) dic) sian) ek 2) litional Chinese) plified Chinese) anese) ean) tin-2) rillic) tin-1) eek) rkish) brew) abic) ltic) etnam) (Western European) (South European) (North European)		0	0	0

· •	SO-8859-9: Turkish SO-8859-10: Nordic SO-8859-15: Latin-9 JTF-8		

1.2.2 Printer Optional Features

The printer offers the following optional features.

Product option feature		User option	Dealer option	Factory option
Peel-off kit	Peel-off kit			
Note: This peel-off module is supported for the thermal/ plain label only.			0	
Regular cutter (full cut guillotine cutter)				
Paper thickness: 0.06~ 0.19 mm			\bigcirc	
Note: Except for the linerless cutter, all regular/heavy duty/ DO NOT cut on media with glue.	care label cutters		Ŭ	
802.11 a/b/g/n wireless module (slot-in)			0	
KP-200 Plus keyboard display unit		\bigcirc		
KU-007 Plus programmable smart keyboard	KU-007 Plus programmable smart keyboard			
Bluetooth module (serial interface)		0		
External label roll mount		0		
Parallel port				0
RFID				0
3.5" color TFT display				0
Real time clock	For 200 dpi and 300 dpi models			0
See-through ribbon end sensor				0

1.3 General Specifications

General Specifications	200 dpi model	300 dpi model	600 dpi model	
Physical dimensions	ysical dimensions 226 mm(W) x 198 mm(H) x 332 mm(D)		226 mm(W) x 200 mm(H) x 332 mm(D)	
Weight	3.75 kg (8.27 lbs)		4.08 kg (8.99 lbs)	
Mechanism	Clamshell with Double-walled plastic			
Power	Power External power adapter • Input: AC 100-240V/ 2.5A • Output: DC 24V/ 3.75A		External power adapter • Input: AC 100-240V, 2.5A • Output: DC 24V/ 5.41A	
Environmental condition				
Environmental concern	Comply with RoHS, WEEE			

1.4 Print Specifications

Print Specifications	200 dpi model	300 dpi model	600 dpi model	
Print head resolution (dots per inch/mm)	203 dots/inch (8 dots/mm)	300 dots/inch (12 dots/mm)	600 dots/inch (24 dots/mm)	
Printing method	Therr	mal transfer/ or direct the	ermal	
Dot size (width x length)	0.125 x 0.125 mm (1 mm = 8 dots)	0.084 x 0.084 mm (1 mm = 12 dots)	0.042 x 0.042 mm (1 mm = 24 dots)	
Print speed	Up to 8 IPS	Up to 6 IPS	Up to 4 IPS	
(inches per second)	Max. 3 ips for peeler mode			
Max. print width	108 mm (4.25")	105.6 mm (4.15")		
Max. print length	25,400 mm (1000")	11,430 mm (450")	2,540 mm (100")	
Printout bias		Vertical: 1 mm max. Horizontal: 1 mm max.		

1.5 Ribbon Specifications

Ribbon Specifications		
Ribbon outside diameter	Max. 67 mm OD	
Ribbon length	300 meter	
Ribbon core inside diameter	1" (25.4 mm) ID core	
Ribbon width	40 mm ~ 110 mm	
Ribbon wound type	Ink coated outside wound	

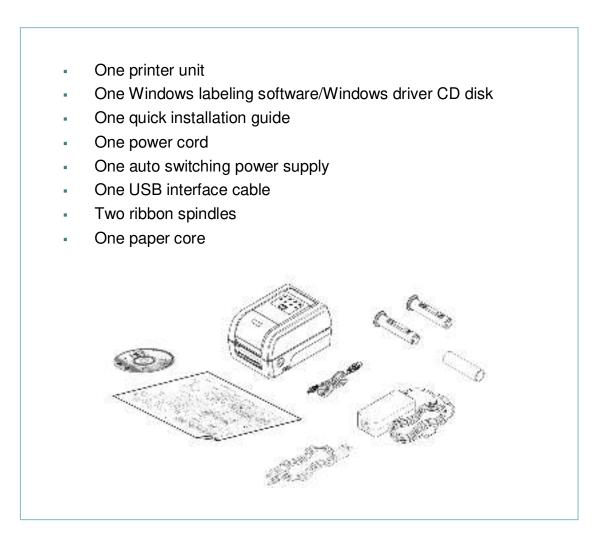
1.6 Media Specifications

Media Specifications	200 dpi model	300 dpi model	600 dpi model	
Media roll capacity	Max. 5" OD			
Media core diameter	1" & 1.5" ID core			
Media type	Continuous, die-cut, l	olack mark, external	fan-fold, notch	
Media wound type	Outside wound			
Media width	19 mm ~ 112 mm			
Media thickness	0.055 mm ~ 0.254 m	m		
Label length	3 ~ 25,400 mm (0.1" ~ 1,000")	3 ~ 11,430 mm (0.1" ~ 450")	3 ~ 25,400 mm (0.1" ~ 1,000")	
Label length (peeler mode)	25.4 mm ~ 152.4 mm (1" ~ 6")			
Label length (cutter mode)	25.4 ~ max. print length			
Black mark	Min. 8 mm (W) x 2 mm (H)			
Gap height	Min. 2 mm			

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.



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



2.2.2 Interior view



2.2.3 Rear View



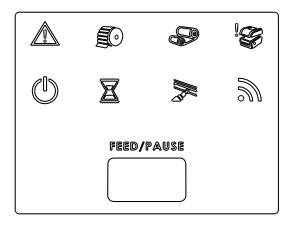
Note:

* Recommended MicroSD card specification.

уре	SD card spec	SD card capacity	Approved SD card manufacturer
Micro SD	V2.0 Class 4	4G	Transcend
	V2.0 Class 4	8G	Transcend
	V3.0 Class 10 UHS-I	16G	Transcend
	V3.0 Class 10 UHS-I	32G	Transcend
	V3.0 Class 10	16G	Kingston
	V2.0 Class 4	16G	Scandisk
	Class 10 UHS-I	16G	Scandisk

2.3 Operator Control

2.3.1 LED Indication and Key



LED	Status	Indication			
	On	Other errors			
E	On	Out of paper			
	Blinking	Paper jam			
	On	Out of ribbon			
	Blinking	Ribbon near end			
	On	Print head open			

LED	Status	Indication		
	On	Printer is ready		
Ŭ	Blinking	Pause		
	On	Erasing memory		
	Blinking	Downloading file		
	Blinking	Need to clear print head		
5	Blinking	RF communication		

(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 print job. When the printer is paused the power LED will blink green. Press the button again to continue the printing job.

3. Setup

3.1 Setting up the printer

- 1. Place the printer on a flat, secure surface.
- 2. Make sure the power switch is 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 Ribbon

	 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.
<image/>	2. Open the ribbon access cover and the media cover.
	 Insert the rewind spindle into the paper core.

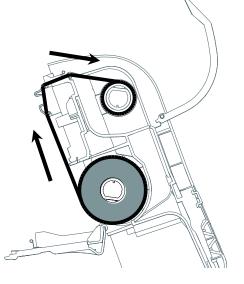
Note: The relieve part of spindle is in left side.	<text></text>
	 Insert the ribbon spindle into the ribbon core.
Note:The yellow part of spindle is in left side.	6. Install the ribbon right side onto the supply hub first then align the notches on the left side and mount onto the spokes.

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

- 8. Turn the ribbon rewind gear until the ribbon plastic leader is thoroughly wound. Close the ribbon access cover and the top cover.

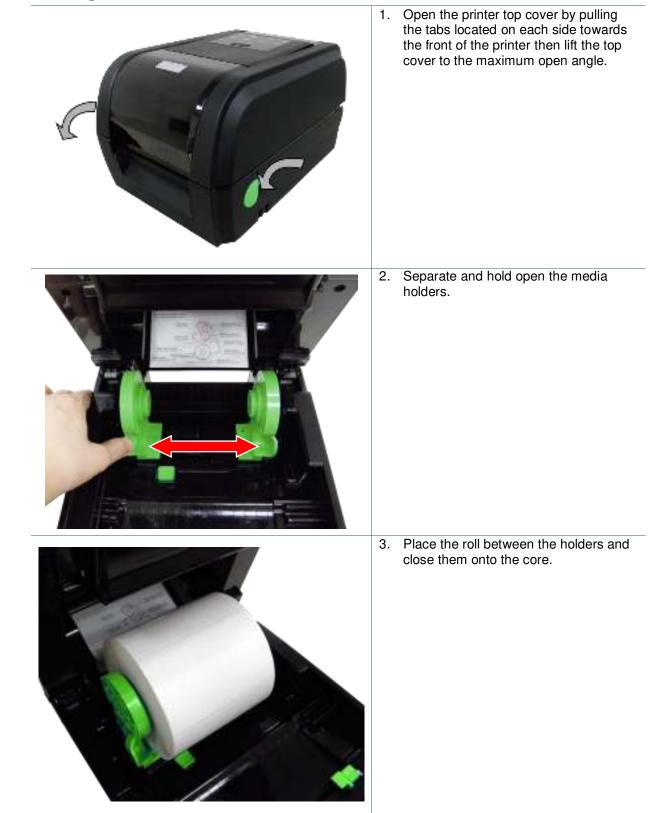


Loading path for ribbon



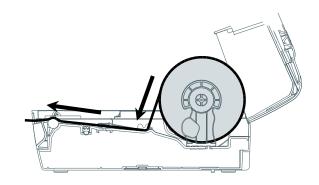
3.3 Loading the Media

3.3.1 Loading the Media



4.	Place the paper, printing side face up, through the media sensor and place the label leading edge onto the platen roller.
5.	Move the media guides to fit the label width by pushing the media guide adjustment button.
7. No Ple	Close the top cover gently. 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) Please refer to the diagnostic utility quick start guide for more information. te: ease calibrate the gap/black mark nsor when changing media.

Loading path for media





3.3.2 Loading Media in Cutter Mode (Option)

1. Please refer to section 3.3.1 to feed the paper, printing side face up, through the paper guide and pass over the platen. Note: This peel-off module is supported for the thermal/ plain label only. Move the media guides to fit the label width 2. by pushing the media guide adjustment button. 3. Close the top cover gently. Use "Diagnostic Tool" to set the media sensor type, calibrate the selected sensor and set the post-print action to "PEEL". Post-Print Action + Cut Piece DFF TEAR Reference **CUTTER** Direction Note: Please calibrate the sensor before loading media into the peel-off module for avoiding paper jam. 4. Open the top cover gently. Pull the label through the front of the printer and take some labels off only leave the liner. Open the peel-off cover. Feed the liner into 5. peel-off cover slot.

3.3.3 Loading Media in Peel-off Mode (Option)



4. Diagnostic Tool

TSC's Diagnostic Utility is an integrated tool incorporating features that enable you to explore a printer's settings/status; change a printer's settings; download graphics, fonts and firmware; create a printer bitmap font; and send additional commands to a printer. With the aid of this powerful tool, you can review printer status and setting in an instant, which makes it much easier to troubleshoot problems and other issues.

4.1 Start the Diagnostic Tool

1. Double click on the Diagnostic tool icon



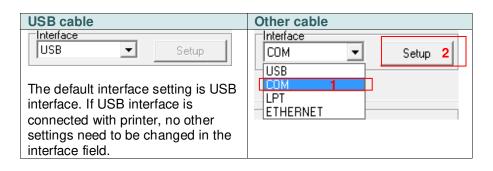
DiagToolexe to start the software.

2. There are four features (Printer Configuration, File Manager, Bitmap Font Manager, Command Tool) included in the Diagnostic utility.

	9 Diagnostic Tool 150	1000				3 23	1
	Language	Unit		Interto		Loss of the state	
Features tab	Cripist 🔶	Ginda Cana		USB	-	Sens	Interface
I	Pinter Configuration File Ma	nagar Bitroop Foot Managar	Connend Tool				internace
	Printer Function	Panta Configuration	- Constant of the second second			1	
	Calibrate Sensor	Prime Information Version		Cutting Ebonies:	0		
	Ethenci Sex.p	Seisl No:	Check Sun		· · · · · · · · · · · · · · · · · · ·	Кл	
	ETC Setup	Gumme 2 1	FS-232 Wineless				
Printer functions	Factory Delaul:	Speed Deroity	-	Ribbon Ribbon Sansa			
lunctions	Hext Printe:	PaperWidth	nch	Ribbon Encoder Em			
	Print Text Proge	Paper Height	nch	Code Page	[]	
	Configuration Page	Media Sensor		Country Code Head up Sanca		3	Printer setup
	Dunp Test	Gap Effset	inch och	Hearint After Error	•		
	Ignore ALITO BAS	Post-Prin: Action	-	Meximum Length	ret		
	Est: Line Mode	GuiPisce		Gao Inten Bine Inten			
	Parevoid Setup	Direction	•••	Continuous Inten.			
	Printe: Status	Offser Shittix	<u> </u>	Threshold Detection	1 1		
Printer Status	Į.	5×0 Y					
	Get Status	Elissi	Lood Save	4	58	Gal	
	LPT1 COM19600	N,8,1 RTS			2012/8/14 下午 06	6:03:01	

4.2 Printer Function

- 1. Connect the printer and computer with a cable.
- 2. Select the PC interface connected with bar code printer.



- 3. Click the "Printer Function" button to setup.
- 4. The detail functions in the Printer Function Group are listed as below.

Printer Function	Function	Description
Calibrate Sensor	Calibrate Sensor	Calibrate the sensor specified in the Printer Setup group media sensor field
Ethernel Setup	Ethernet Setup	Setup the IP address, subnet mask, gateway for the on board Ethernet
RTC Setup	RTC Setup	Synchronize printer Real Time Clock with PC
Fectory Deisult	Factory Default	Initialize the printer and restore the settings to factory default.
Recet Printer	Reset Printer	Reboot printer
Print Test Page	Print Test Page	Print a test page
Configuration Page	Configuration Page	Print printer configuration
Dump Test	Dump Text	To activate the printer dump mode.
Ignare AUTO.BAS	Ignore AUTO.BAS	Ignore the downloaded AUTO.BAS program
Exit Line Hode	Exit Line Mode	Exit line mode.
Password Setup	Password Setup	Set the password to protect the settings

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

4.3 Setting Ethernet by Diagnostic Tool

The Diagnostic Utility is enclosed in the CD disk \Utilities directory. Users can use Diagnostic Tool to setup the Ethernet by RS-232, USB and Ethernet interfaces. The following contents will instruct users how to configure the Ethernet by these three interfaces.

4.3.1 Using USB interface to setup Ethernet interface

- 1. Connect the printer and computer with USB cable.
- 2. Turn on the printer power switch.
- 3. Start the Diagnostic Utility by double clicking on the 📑 DiagToolexe icon.
- 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.

USB 💌	Setup
USB COM	
LPT ETHERNET	

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.

	🕘 Ethemet Setup 🔀				
Printer Function Calibrate Sensor	IP Setup C DHCP C Static IP				
Ethernet Setup	IP 255.255.255	_			
RTC Setup	Subnet Mask 255.255.255.255	_			
Print Test Page	Gateway 255.255.255	- 1			
Reset Printer	Printer Name PS-FF04E2				
Factory Default	MAC Address 00-1B-82-FF-04-E2	_			
Dump Text	MAC AUGIESS				
Ignore AUTO.BAS					
Configuration Page	Set Printer Name Set IP Cance	el			

4.3.2 Using RS-232 interface to setup Ethernet interface

1. Connect the computer and the printer with a RS-232 cable.

- 2. Turn on the printer power.
- 3. Start the Diagnostic Utility by double clicks on the



4. Select "COM" as interface then click on the "Setup" button to setup the serial port baud rate, parity check, data bits, stop bit and flow control parameters.

nterface				
	Setup 🧉	RS232 Setup		
USB COM				_
LPT		COM Port	COM1	-
ETHERNET		Baud Rate	9600	•
		Data Bits	8	-
		Parity Check	None	-
		Stop Bit(s)	1	-
		Hardware Handshaking	RTS	-
		Software Handshaking	None	•
			Se	t I
			Can	cel

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

Printer Function	🖨 Ethernet Setup 🔀
Calibrate Sensor	IP Setup
Ethernet Setup	
RTC Setup	C Static IP
Print Test Page	IP 255.255.255
Reset Printer	Subnet Mask 255.255.255
Factory Default	255 255 255 255
Dump Text	PS-FE04E2
Ignore AUTO.BAS	Printer Name 00-18-82-FF-04-E2
Configuration Page	MAC Address 000-18-62-FF-04-62
	Set Printer Name Set IP Cancel

4.3.3 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
- e 付 DiagTool.exe icon.
- 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.

ETHERNET Setup	🛛 PEAR Sama 🔄 🗔 🔀					
USB COM LPT ETHERNET	Prime: Name T103370 PS-076780	MAC ON 18 8255 (15 OC ON 15 11 C7 67 9)	IP Address Totale Hose To 16 24	Mode Name TTOESS D ²⁴ 5321	Status Frank	IP Soling IP Activess/Printee Name (10.0.6.125 Part (31.00
	Discover Dev	ice Enange IP Addr	ese Factory D	ierault web	Selup	Exit

- 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.

PSeu: 9 XU]		
C SM S F		
10	106/35	
CONTRACT	*1 TT TT	
(upony	106.358	
Fina Neva	1033-60	
HAC ALL VIN	C REALCORD	-

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.

5. 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 status of LED.

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

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

Power on utilities	The LED wi	II be chang	ed as follov	ving:		
LED color & status	Red	Red	Red	Red	Green	Green
Functions	(5 blinks)	(5 blinks)	(5 blinks)	(5 blinks)	(5 blinks)	(Solid)
1. Ribbon sensor calibration and gap / black mark sensor calibration	Release					
2. Gap / black mark sensor calibration, Self-test and enter dump mode		Release				
3. Printer initialization			Release			
4. Set black mark sensor as media sensor and calibrate the black mark sensor				Release		
5. Set gap sensor as media sensor and calibrate the gap sensor					Release	
6. Skip AUTO.BAS						Release

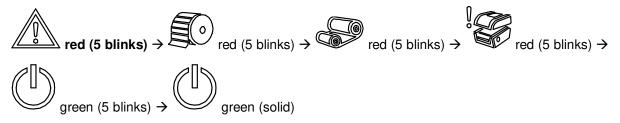
5.1 Ribbon and Gap/Black Mark Sensor Calibration

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 ribbon and 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.
- It will calibrate the ribbon sensor and gap/black mark sensor sensitivity.
- The LED will be changed as following order :



Note:

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

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

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

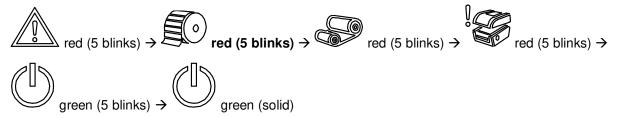
While calibrate the gap/black mark sensor, printer will measure the label length, print the internal configuration (self-test) on label and then enter the dump mode. To calibrate gap or black mark sensor, depends on the sensor setting in the last print job.

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.



The LED will be changed as following order.



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

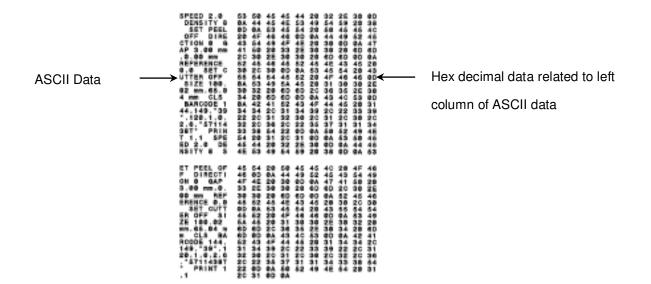
Printer will print the printer configuration after gap/black mark sensor calibration. Self-test printout can be used to check if there is any dot damage on the heater element, printer configurations and available memory space.

SYSTEM I	NFORMATION	
CHECKSUM: S/N: TCF: DATE: TIME: NON-RESET:	XXXXXX XXX XXXXXXXXX XXXXXXXXXX NO 1970/01/01 00:04:18 110 m (TPH) 00:04:18 110 m (TPH) 00:04:18 110 m (TPH) 00:04:18 100 m (TPH) 00:04:10 00:04:18 100 m (TPH) 00:04:18 100 m (TPH) 00:04:18 100 m (TPH) 00:04:18 100 m (TPH) 00:04:18 100 m (TPH) 00:04:18 100 m (TPH) 00:04:18 100 m (TPH) 100 m (TPH) 10	Model name F/W version Firmware checksum Printer S/N Configuration file System date System time Printed mileage (meter) Cutting counter
PRINTIN	G SETTING	
DENSITY: WIDTH: HEIGHT: GAP: INTENSION: CODEPAGE:	5 IPS 8.0 4.00 INCH 0.00 INCH 5 5 850 001	Print speed (inch/sec) Print darkness Label size (inch) Gap distance (inch) Gap/black mark sensor intens Code page Country code
	ETTING	
TILDE: CARET: DELIMITER:	4 IPS 4.00 INCH 7EH (⁻) 5EH ([^]) 2CH ([^]) NO NOTION	ZPL setting information Print darkness Print speed (inch/sec) Label size Control prefix Format prefix Delimiter prefix Printer power up motion Printer head close motion
	SETTING	Note: ZPL is emulating for Zebra [®] language.
BAUD: PARITY:	9600 NONE 8	RS232 serial port configuration

—— Numbers of download files	ICAL XXXX KBYTES ABLE XXXX KBYTES	PHYSICAL AVAILABLE
Total & available memory spa	FILE (0 FILES)	FLASH FILE (
	and the second se	

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 4" wide paper width.
- 2. $\textcircled{D}_{\&}$ **\boxtimes** LEDs will be turned on when at dump mode.
- 3. Turn off / on the power to resume printer for normal printing.

5.3 Printer Initialization

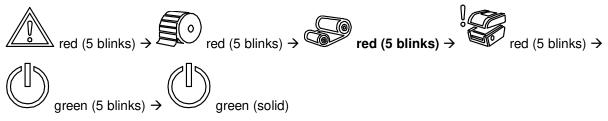
Printer initialization is used to clear DRAM and restore printer settings to defaults. The only one exception is ribbon sensitivity, which will note be restored to default.

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 red and 5 blinks.

The LED will be changed as following:



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

Parameter	Default setting
Speed	101.6 mm/sec (4 ips) (203DPI)
	76 mm/sec (3 ips) (300DPI)
Density	8
Label Width	4" (101.5 mm)
Label Height	4" (101.5 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
outter mode	
Serial Port Settings	9600 bps, none parity, 8 data bits, 1 stop bit
Senari on Settings	sood bps, none pairty, o data bits, i stop bit
Codo Pago	850
Code Page	000
Country Code	001
Country Code	001
	NL.
Clear Flash Memory	No
IP Address	DHCP

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

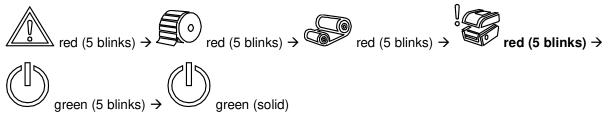
Please follow the steps as below.

- 1. Turn off the power switch.
- 2. Hold on the button then turn on the power switch.



3. Release the button when LED turns red and 5 blinks.

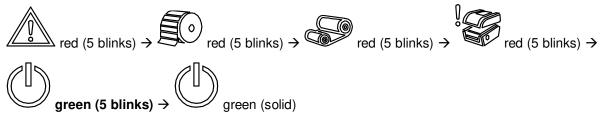
The LED will be changed as following:



5.5 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 **green** and 5 blinks.
- The LED will be changed as following:

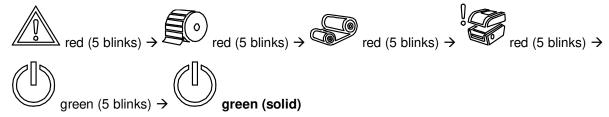


5.6 Skip AUTO.BAS

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 will be changed as following:



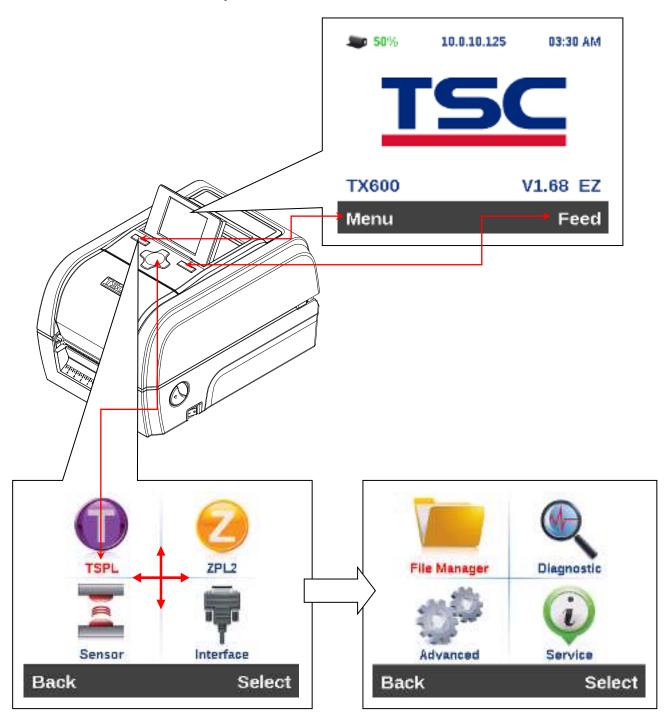
4. Printer will be interrupted to run the AUTO.BAS program.

6. LCD Menu Function

6.1 Enter the Menu

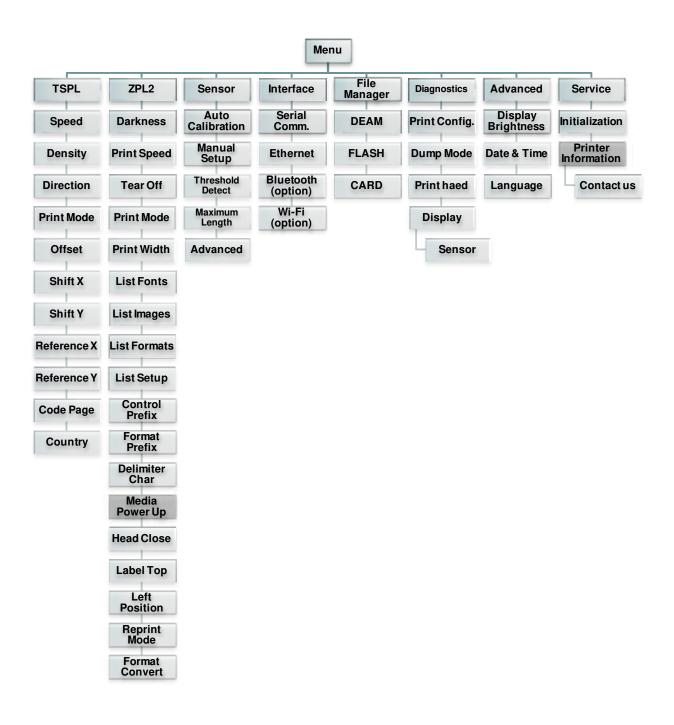
Press the "Menu" button to enter the main menu. Use the "Cross" button to select the item on main menu. The selected item will turn red. Press the "Feed" button to enter the setting list.

Note: This LCD function is optional for TX200 and TX300 series.



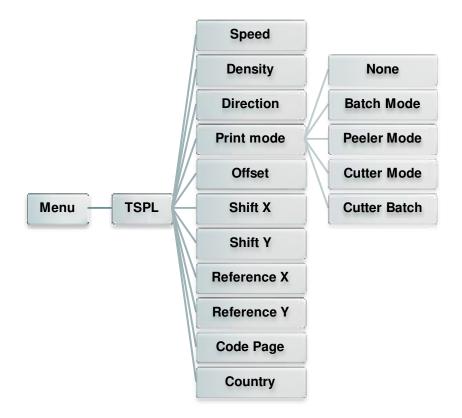
6.2 Main Menu Overview

There are 8 categories for the main menu. You can easy to set the settings of printer without connecting the computer. Please refer to following sections for more details.



6.3 TSPL2

This "TSPL2" category can set up the printer settings for TSPL2.



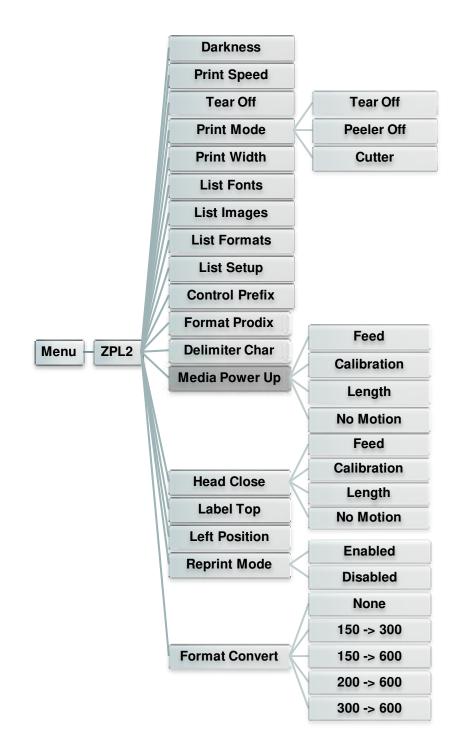
ltem	Description		Default
Speed	Use this item to setup print speed.		N/A
Density	Use this option to setup printing darkness. The available setting is from 0 to 15, and the step is 1. You may need to adjust your density based on selected media.		8
Direction	The direction seprintout direction	TION 0 DIRECTION 1	0
Print mode	Printer Mode Description None Next label top of form is aligned to the print head burn line location. (Tear Off Mode) Batch Mode Once image is printed completely, label gap/black mark will be fed to the tear plate location for tear away. Peeler Mode Enable the label peel off mode.		Batch Mode

	Cutter Mode	Enable the label cutter mode.	
	Cutter Batch	Cut the label once at the end of the printing job.	
Offset		ed to fine tune media stop location. Available setting	+000
Shift X	This item is used to fine tune print position. Available setting value is		+000
Shift Y	from "0" to "9".		+000
Reference X	This item is use	d to set the origin of printer coordinate system horizontally	000
Reference Y	and vertically. Av	vailable setting value is from "0" to "9".	000
Code page	Use this item to	set the code page of international character set.	850
Country	Use this option to	o set the country code.	001

Note: If printing from enclosed software/driver, the software/driver will send out the commands, which will overwrite the settings set from the panel.

6.4 ZPL2

This "ZPL2" category can set up the printer settings for ZPL2.



Item	Description	Default
Darkness	Use this item to setup printing darkness. The available setting is from 0 to 30, and the step is 1. You may need to adjust your density based on selected media.	16

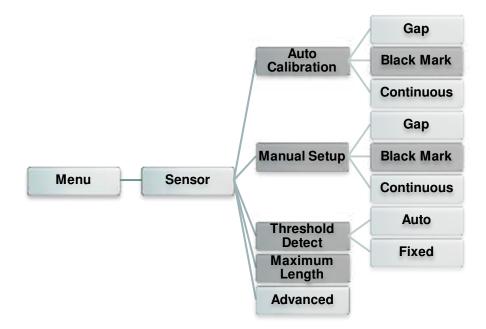
Print Speed	Use this item to setup print speed. The each increase or decrease is 1 ips. Available setting is from 2 to 6.	6 (203dpi) 4 (300dpi) 3 (600dpi)
Tear Off	This item is used to fine tune media stop location. Available setting value is from "+" to "-" or "0" to "9".	+000
Print mode	This item is used to set the print mode. There are 3 modes as below,Printer ModeDescriptionTear OffNext label top of form is aligned to the print	Tear Off
	Near Onhead burn line location.Peeler OffEnable the label peel off mode.CutterEnable the label cutter mode	
Print Width	This item is used to set print width. The available value is from "0" to "9".	N/A
List Fonts	This feature is used to print current printer available fonts list to the label. The fonts stored in the printer's DRAM, Flash or optional memory card.	N/A
List Images	This feature is used to print current printer available images list to the label. The images stored in the printer's DRAM, Flash or optional memory card.	N/A
List Formats	This feature is used to print current printer available formats list to the label. The formats stored in the printer's DRAM, Flash or optional memory card.	N/A
List Setup	This feature is used to print current printer configuration to the label.	N/A
Control Prefix	This feature is used to set control prefix character.	N/A
Format Prefix	This feature is used to set format prefix character.	N/A
Delimiter Char	This feature is used to set delimiter character.	N/A
Media Power Up	This option is used to set the action of the media when you turn on the printer.SelectionsDescriptionFeedPrinter will advance one labelCalibrationPrinter will calibration the sensor levels, determine length and feed labelLengthPrinter determine length and feed labelNo MotionPrinter will not move media	No Motion
Head Close	This option is used to set the action of the media when you close the print head.SelectionsDescriptionFeedPrinter will advance one labelCalibrationPrinter will calibration the sensor levels, determine length and feed labelLengthPrinter determine length and feed labelNo MotionPrinter will not move media	No Motion
Label Top	This option is used to adjust print position vertically on the label. The range is -120 to +120 dots.	0

Left Position	This option is used to adjust print position horizontally on the label. The range is -9999 to +9999 dots.	+0000
Reprint Mode	When reprint mode is enabled, you can reprint the last label printer by pressing "UP" button on printer's control panel.	Disabled
Format Convert	Selects the bitmap scaling factor. The first number is the original dots per inch (dpi) value; the second, the dpi to which you would like to scale.	None

Note: If printing from enclosed software/driver, the software/driver will send out the commands, which will overwrite the settings set from the panel.

6.5 Sensor

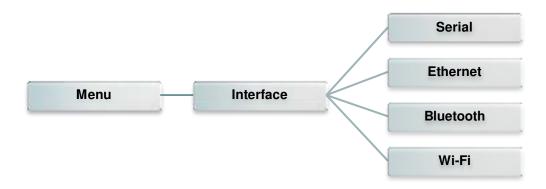
This option is used to calibrate the selected sensor. We recommend calibrate the sensor before printing when changing the media.



ltem	Description	Default
Auto Calibration	Printer will feed 2 to 3 gap labels to calibrate the sensor sensitivity automatically.	N/A
Manual Setup	In case "Auto calibration" cannot apply to the media, please use "Manual setup" function to calibrate the sensor sensitivity.	N/A
Threshold Detect	This option is used to set sensor sensitivity in fixed or auto.	Auto
Maximum Length	This option is used to set the maximum length for label calibration.	254mm
Advanced	This function can set the minimum paper length and maximum gap/bline length for auto-calibrate the sensor sensitivity.	OFF

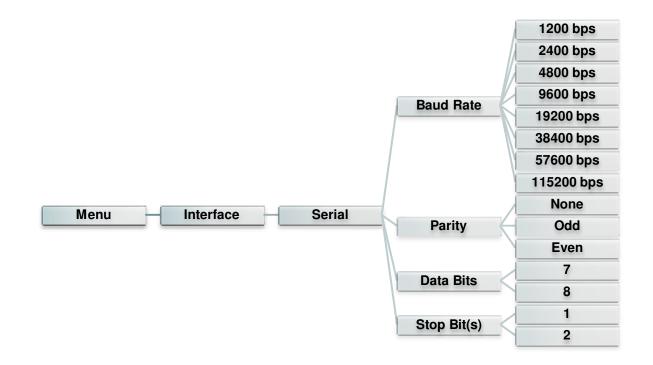
6.6 Interface

This option is used to set the printer interface settings.



6.6.1 Serial Comm.

This option is used to set the printer RS-232 settings.



Item	Description	Default
Baud Rate	This item is used to set the RS-232 baud rate.	9600
Parity	This item is used to set the RS-232 parity.	None
Data Bits	This item is used to set the RS-232 Data Bits.	8
Stop Bit(s)	This item is used to set the RS-232 Stop Bits.	1

6.6.2 Ethernet

Use this menu to configure internal Ethernet configuration check the printer's Ethernet

module status, and reset the Ethernet module.



Item	Description	Default
Status	Use this menu to check the Ethernet IP address and MAC setting status.	N/A
DHCP	This item is used to ON or OFF the DHCP (Dynamic Host Configuration Protocol) network protocol.	N/A
Static IP	Use this menu to set the printer's IP address, subnet mask and gateway.	ON

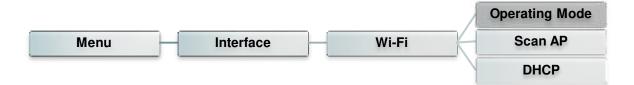
6.6.3 Bluetooth

This option is used to set the printer blustooth settings.



Item	Description	Default
Bluetooth Name	This item is used to set the local name for Bluetooth.	BT-SPP
Bluetooth PIN Code	This item is used to set the local PIN code for Bluetooth.	0000

6.6.4 Wi-Fi



Item	Description	Default
Operating	This item is used to set the operating mode of wireless local area networks to connect devices to the networks. Note: Infrastructure mode requires the use of an access point for this communication to take place. Ad hoc mode involves connecting a computer directly to another computer.	Infrastructure
Scan AP	This item is used to scan the access point devise	N/A
DHCP	This item is used to ON or OFF the DHCP (Dynamic Host Configuration Protocol) network protocol.	ON

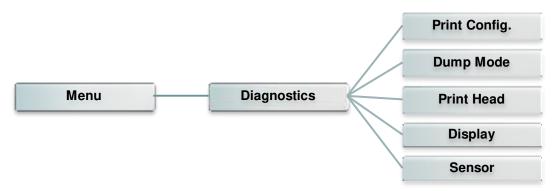
6.7 File Manager

This feature is used to check the printer available memory and file list.



Item	Description
DRAM	Use this menu to show, delete and run (.BAS) the files saved in the printer DRAM memory.
FLASH	Use this menu to show, delete and run (.BAS) the files saved in the printer Flash memory.
CARD	Use this menu to show, delete and run (.BAS) the files saved in the printer Card memory.

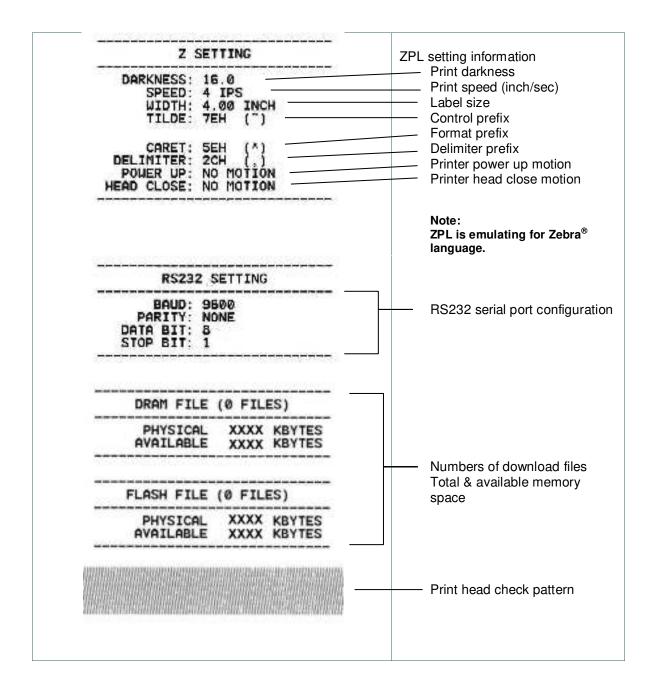
6.8 Diagnostics



6.8.1 Print Config.

This feature is used to print current printer configuration to the label. On the configuration printout, there is a print head test pattern, which is useful for checking if there is any dot damage on the print head heater element.

SYSTEM INFORMATION	
MODEL: XXXXXX FIRMWARE: X.XX CHECKSUM: XXXXXXXX S/N: XXXXXXXXX TCF: NO DATE: 1970/01/01 TIME: 00:04:18 NON-RESET: 110 m (TPH) RESET: 110 m (TPH) NON-RESET: 0 (CUT) RESET: 0 (CUT)	Model name F/W version Firmware checksum Printer S/N TSC configuration file System date System time Printed mileage (meter) Cutting counter
PRINTING SETTING	
SPEED: 5 IPS DENSITY: 8.0 WIDTH: 4.00 INCH HEIGHT: 4.00 INCH GAP: 0.00 INCH INTENSION: 5 CODEPAGE: 850 COUNTRY: 001	Print speed (inch/sec) Print darkness Label size (inch) Gap distance (inch) Gap/black mark sensor intension Code page Country code

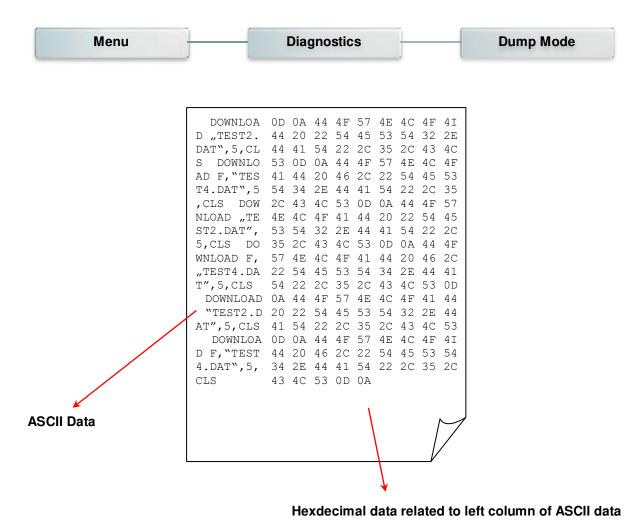


Note:

Checking dot damage requires 4" wide paper width.

6.8.2 Dump Mode

Captures the data from the communications port and prints out the data received by printer. In the dump mode, all characters will be printed in 2 columns. 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: Dump mode requires 4" wide paper width.

6.8.3 Print Head

This feature is used to check print head's temperature, resistance and bad dots.



6.8.4 Display

This feature is used to check LCD's color state.

Menu	Diagnostics	Display
		·

6.8.5 Sensor

This feature is used to check media sensor state.

Monu	Diagnostico	Concor	Gap
Menu	Diagnostics	Sensor	Black Mark

6.9 Advanced

This feature is used to set the printer LCD settings.



Item	Description
Display Brightness	This item is used to setup the brightness for display.
Date & Time	This item is used to setup the date and time on display.
Language	This item is used to setup the language on display.

6.10 Service

This feature is used to restore printer settings to defaults and checking information for printer.



Item	Description
Initialization	This feature is used to restore printer settings to defaults.
Printer Information	This feature is used to check the printer's serial number, printed mileage (m), printed labels (pcs.) and cutting counter.
Contact Us	This feature is used to check the contact information for tech support service.

7. 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 tech support service of your purchased reseller or distributor for assistance.

Problem	Possible Cause	Recovery Procedure
Power indicator does not illuminate	* The power cord is not properly connected.	 * Plug the power cord in printer and outlet. * Switch the printer on.
LED turn on (Carriage Open)	* The printer head is open.	* Please close the print carriages.
LED turn on (No Ribbon)	 * Running out of ribbon. * The ribbon is installed incorrectly. 	 * Supply a new ribbon roll. * Please refer to the steps on section 3.2 to re-install the ribbon.
LED Blinking	* Ribbon near end	* Supply a new ribbon roll.
LED turn on (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 on section 3.3 to reinstall the label roll. * Calibrate the gap/black mark sensor.
LED Blinking (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 media sensor. * Set media size correctly. * Remove the stuck label inside the printer mechanism.
LED turn on (Other errors)	* Out of memory * Print head over heat * Cutter error/ Cutter jam	 * Delete unused files in the FLASH/DRAM. * Wait for print head to cool down. * Remove the stuck label inside the cutter module.
Not Printing	 * Check if interface cable is well connected to the interface connector. * Check if wireless or Bluetooth device is well connected between host and printer. * The port specified in the Windows driver is not correct. 	 * Re-connect cable to interface or chang a new cable. * If using serial cable, - Please replace the cable with pin to pin connected. - Check the baud rate setting. The default baud rate setting of printer is 9600,n,8,1. * If using the Ethernet cable, - Check if the Ethernet RJ-45 connector green LED is lit on. - Check if the Ethernet RJ-45 connector amber LED is blinking. - Check if the printer gets the IP address when using DHCP mode. - Check if the IP address.

No print on the label	 * Label or ribbon is loaded not correctly. * Use wrong type paper or ribbon 	 Wait a few seconds let the printer get the communication with the server then check the IP address setting again. * Please reset the wireless device setting. * Select the correct printer port in the driver. * Print head's harness connector is not well connected with printheat. Turn off the printer and plug the connector again. * Check your program if there is a command PRINT at the end of the file and there must have CRLF at the end of each command line. * Follow the instructions in loading the media and ribbon. * Ribbon and media are not compatible. * Verify the ribbon-inked side. * The print density setting is incorrect. * Clean the print head.
Poor Print Quality	 * Ribbon and media is loaded incorrectly * Dust or adhesive accumulation on the print head. * Print density is not set properly. * Print head element is damaged. * Ribbon and media are incompatible. * The print head pressure is not set properly. 	 * Reload the supply. * Clean the print head. * Clean the platen roller. * Adjust the print density and print speed. * Run printer self-test and check the print head test pattern if there is dot missing in the pattern. * Change proper ribbon or proper label media. * The release lever does not latch the print head properly.
Take Label	* Peel function is enabled.	 * If the peeler module is installed, please remove the label. * If there is no peeler module in front of the printer, please switch off the printer and install it. * Check if the connector is plugging correctly.
Cutter is not working	 * The connector is loose. * Cutter jam. * Cutter PCB is damaged. 	 * Plug in the connect cable correctly. * Remove the label. * Make sure the thickness of label is less than 0.19 mm. * Replace a cutter driver IC board.
Can't downloading the file to memory (FLASH / DRAM/CARD)	* The space of memory is full.	* Delete unused files in the memory.
SD card is unable to use	 * SD card is damaged. * SD card doesn't insert correctly. * Use the non-approved SD card manufacturer. 	 * Use the supported capacity SD card. * Insert the SD card again. * The supported SD card spec and the approved SD card manufacturers, please refer to section 2.2.3.
Missing printing on the left or right side of label	* Wrong label size setup.	* Set the correct label size.
Gray line on the blank label	* The print head is dirty.* The platen roller is dirty.	* Clean the print head.* Clean the platen roller.

Irregular printing	 * The printer is in Hex Dump mode. * The RS-232 setting is incorrect. 	 * Turn off and on the printer to skip the dump mode. * Re-set the Rs-232 setting.
Label feeding is not stable (skew) when printing	* The media guides do not touch the edge of the media.	 * If the label is moving to the right side, please move the label guide to left. * If the label is moving to the left side, please move the label guide to right.
Skip labels when printing	 * Label size is not specified properly. * Sensor sensitivity is not set properly. * The media sensor is covered with dust. 	 * Check if label size is setup correctly. * Calibrate the sensor by Auto Gap or Manual Gap options. * Clear the GAP/Black mark sensor by blower.
Wrinkle Problem	 * Printhead pressure is incorrect. * Ribbon installation is incorrect. * Media installation is incorrect. * Print density is incorrect. * Media feeding is incorrect. 	 * Please set the suitable density to have good print quality. * Make sure the label guides touch the edge of the media guide.
RTC time is incorrect when reboot the printer	* The battery has run down.	* Check if there is a battery on the main board.
The printing position of small label is incorrect	 * Media sensor sensitivity is not set properly. * Label size is incorrect. * The parameter Shift Y is incorrect. * The vertical offset setting in the driver is incorrect. 	* Calibrate the sensor sensitivity again. * Set the correct label size and gap size. * Use DiagTool to fine tune the parameter of Shift Y. * If using the software BarTender, please set the vertical offset in the driver. * Use for the vertical offset in the driver. * Set for the vertical off

8. 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
 - Lint-free cloth
 - Vacuum / Blower brush
 - 100% Ethanol or Isopropyl Alcohol
- 2. The cleaning process is described as following,

Printer Part	Method	Interval
	 Always turn off the printer before cleaning the print head. Allow the print head to cool for a minimum of one minute. Use a cotton swab and 100% Ethanol or Isopropyl Alcohol to clean the print head surface. 	Clean the print head when changing a new label roll.
	(23)	Print Head
Print Head	Print Head Element Head Cleaner Pert	Element
Platen Roller	 Turn the power off. Rotate the platen roller and wipe it thoroughly with water. 	Clean the platen roller when changing a new label roll
Peel Bar	Use the lint-free cloth with 100% ethanol to wipe it.	As needed
Sensor	Compressed air or vacuum	Monthly
Exterior	Wipe it with water-dampened cloth	As needed
Interior	Brush or vacuum	As needed

Note:

- Do not touch printer head by hand. If you touch it careless, please use ethanol to clean it.
- Please use 100% Ethenol or Isopropyl Alcohol. 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.

Revise History

Date	Content	Editor
2015/4/15	Modify the pictures for moved parts color (green)	Camille
2015/4/20	Modify section 3.2 (Printhead module change)	Camille
2015/10/16	Modify section 1.2.1 (Add the ribbon encoder sensor info.)	Camille
2015/10/21	Modify section 2.2.3(Recommended SD card specification)	Camille
2016/5/5	Add section 6.8.5 (Sensor)	Camille
2016/7/5	Add note for peel-off module on chapter 1.2.2 & 3.3.3	Camille
2017/3/22	Modify section 1.2.2	Camille
2017/6/29	Add the cautions on ch. 2.2.2 & ch.2.2.3	Camille
2017/7/6	Update printer specifications	Camille
2018/1/23	Update Agency Compliance and Approvals	Kate
2018/3/1	Modify section 6.3(TSPL2) Update Agency Compliance and Approvals	Kate



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