# MX240P/ MX340P/ MX640P Series

# THERMAL TRANSFER / DIRECT THERMAL BAR CODE PRINTER

USER'S MANUAL



#### **Copyright Information**

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Agency Compliance and Approvals

	EN 55022, Class B
	EN 55024
	EN 60950-1
CE	EN 55032
	EN 61000-3-2
	EN 61000-3-2 EN 61000-3-3
	EN 01000-3-3
FC	FCC part 15B, Class B
	AS/NZS CISPR 22/ 32, Class B
CUL US LISTED I.T.E. E178707	UL 60950-1
	EN 60950-1
	GB 4943.1
(m)	
$(\mathbf{u})$	GB 9254
	GB 17625.1
	TP TC 004 TP TC 020
8	IS 13252(Part 1)/ IEC 60950-1
Energy STAR	ENERGY STAR Imaging Equipment 2.0

Important safety instructions:

- 1. Read all of these instructions and keep them for later use.
- 2. Follow all warnings and instructions on the product.
- 3. Disconnect the power plug from the AC outlet before cleaning or if fault happened.

Do not use liquid or aerosol cleaners. Using a damp cloth is suitable for cleaning.

4. The mains socket shall be installed near the equipment and easily accessible.

- 5. The unit must be protected against moisture.
- 6. Ensure the stability when installing the device, Tipping or dropping could cause damage.
- 7. Make sure to follow the correct power rating and power type indicated on marking label

provided by manufacture.

8. Please refer to user manual for maximum operation ambient temperature.

#### WARNING:

Hazardous moving parts, keep fingers and other body parts away.

#### CAUTION:

(For equipment with RTC (CR2032) battery or rechargeable battery pack)

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

Dispose of used batteries according to the Instructions as below.

- 1. DO NOT throw the battery in fire.
- 2. DO NOT short circuit the contacts.
- 3. DO NOT disassemble the battery.
- 4. DO NOT throw the battery in municipal waste.
- 5. The symbol of the crossed out wheeled bin indicates that the battery should not be placed in municipal waste.

<b>Caution</b> :	The printhead may be hot and could cause severe burns. Allow the printhead to
cool	

COOI.

#### 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.

## 設備名稱 Equipment name:熱轉式/熱感式條碼印表機,

## 型號(型式) Type designation (Type): MX240P 系列

	明田儿前有井川留肤吐							
	限用物質及其化學符號 Restricted substances and its chemical symbols							
單元Unit	鉛Lead (Pb)	汞Mercury (Hg)	霸Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr <sup>+6</sup> )	多溴聯苯 Polybrominate d biphenyls (PBB)	多溴二苯醚 Polybrominate d diphenyl ethers (PBDE)		
內外塑膠件	0	0	0	0	0	0		
內外鐵件	-	0	0	0	0	0		
滾輪	$\bigcirc$	0	0	$\bigcirc$	0	$\bigcirc$		
銘版	0	0	0	0	0	0		
電路板	-	0	0	0	0	0		
晶片電阻	-	0	0	$\bigcirc$	0	$\bigcirc$		
積層陶瓷表面 黏著電容	0	0	0	0	0	0		
集成電路-IC	-	0	0	0	0	0		
電源供應器	$\bigcirc$	0	0	0	0	0		
印字頭	-	0	0	$\bigcirc$	0	$\bigcirc$		
馬達	-	0	0	0	0	$\bigcirc$		
液晶顯示器	-	0	0	0	0	$\bigcirc$		
插座	-	0	0	$\bigcirc$	0	$\bigcirc$		
線材	-	0	0	0	0	0		

備考1. "超出0.1 wt %"及"超出0.01 wt %"係指限用物質之百分比含量超出百分比含量基準值。

Note 1 : "Exceeding 0.1 wt %" and "exceeding 0.01 wt %" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2. "〇"係指該項限用物質之百分比含量未超出百分比含量基準值。

Note 2 : "()" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3. "一"係指該項限用物質為排除項目。 Note 3: The "-" indicates that the restricted substance corresponds to the exemption.

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# 1. Introduction

## **1.1 Product Introduction**

Thank you very much for purchasing TSC bar code printer.

The new high performance MX240P Series was designed to deliver 24x7 high volume performance. It features a die-cast aluminum print mechanism housed in a very strong yet lightweight cabinet. This new design results in a more durable printer that is suited for your most heavy-duty demand cycles.

There are three models available with the MX240P Series. The MX240P prints at 203 dpi at speeds up to an amazing 18 inches per second, MX340P offers higher 300 dpi resolution at speeds up to 14 inches per second, and the MX640P features 600 dpi high resolution which makes it ideal for printing very small 2D barcodes, graphics, fine print and other ultra-high-resolution images.

The MX240P Series printers are loaded with standard features including a color touch display with new GUI design and six menu buttons to provide a great user experience, support for 600 meter ribbons, 8" OD media rolls, built-in Ethernet, two USB hosts for keyboard and scanner connections, and USB 2.0 and serial interfaces. Parallel and GPIO ports are available as an option.

This document provides an easy reference for operating the MX240P series. To print label formats, please refer to the instructions provided with your labeling software; if you need to write the custom programs, please refer to the TSPL/TSPL2 programming manual that can be found on the accessories CD-ROM or on TSC website at <a href="http://www.tscprinters.com">http://www.tscprinters.com</a>.

#### - Applications

- High volume printing
- Work in process
- Compliance labeling
- Inventory management
- · Shipping/ receiving
- Asset management
- Electronics & Jewelry labeling

# **1.2 Product Features**

# 1.2.1 Printer Standard Features

The printer offers the following standard features.

Product stan	idard feature		
Printing method	Thermal transfer/ or direct thermal		
Mechanism	Die-cast based print mechanism and frame / Aluminum cover with large clear media view window		
LCD display/ Operation buttons	Multi-language selectable Large Backlit LCD display (LCD: 16 bits Color, Resolution 480 x 272 ; Resistive Touch Screen) with 6 buttons & 3 LEDs		
Processor	32-bit RISC high performance processor (BGA 536Mhz)		
Memory	<ul> <li>512 MB Flash memory</li> <li>512 MB SDRAM memory (DDR2)</li> <li>Micro SD card reader for memory expansion, up to 32GB</li> </ul>		
Interface	<ul> <li>RS-232 (Max. 115,200 bps )</li> <li>USB 2.0 (High speed mode)</li> <li>Internal Ethernet print server (10/100 Mbps)</li> <li>USB host *2 (Front side/ support USB HID only)</li> </ul>		
Sensors <ul> <li>Gap transmissive sensor (Position adjustable, 5 mm → 100 mm)</li> <li>Black mark reflective sensor (Position adjustable, 0 mm → 93.5 mm</li> <li>Ribbon end sensor (transmissive)</li> <li>Ribbon encoder sensor</li> <li>Head open sensor</li> <li>Media capacity sensor</li> </ul>			
Internal font	<ul> <li>8 alpha-numeric bitmap fonts</li> <li>One Monotype Imaging® CG Triumvirate Bold Condensed scalable font</li> </ul>		
Supported code page	<ul> <li>Codepage 437 (English - US)</li> <li>Codepage 737 (Greek)</li> <li>Codepage 850 (Latin-1)</li> <li>Codepage 852 (Latin-2)</li> <li>Codepage 855 (Cyrillic)</li> <li>Codepage 857 (Turkish)</li> <li>Codepage 860 (Portuguese)</li> <li>Codepage 861 (Icelandic)</li> <li>Codepage 862 (Hebrew)</li> <li>Codepage 863 (French Canadian)</li> <li>Codepage 864 (Arabic)</li> <li>Codepage 865 (Nordic)</li> <li>Codepage 866 (Russian)</li> <li>Codepage 866 (Russian)</li> <li>Codepage 950 (Traditional Chinese)</li> <li>Codepage 936 (Simplified Chinese)</li> <li>Codepage 932 (Japanese)</li> <li>Codepage 1250 (Latin-2)</li> <li>Codepage 1251 (Cyrillic)</li> <li>Codepage 1251 (Cyrillic)</li> <li>Codepage 1254 (Turkish)</li> <li>Codepage 1255 (Hebrew)</li> <li>Codepage 1255 (Hebrew)</li> <li>Codepage 1256 (Arabic)</li> </ul>		

	<ul> <li>Codepage 1257 (Baltic)</li> <li>Codepage 1258 (Vietnam)</li> <li>ISO-8859-1: Latin-1 (Western European)</li> <li>ISO-8859-2: Latin-2 (Central European)</li> <li>ISO-8859-3: Latin-3 (South European)</li> <li>ISO-8859-4: Latin-4 (North European)</li> <li>ISO-8859-5: Cyrillic</li> <li>ISO-8859-6: Arabic</li> <li>ISO-8859-7: Greek</li> <li>ISO-8859-8: Hebrew</li> <li>ISO-8859-9: Turkish</li> <li>ISO-8859-10: Nordic</li> <li>ISO-8859-15: Latin-9</li> <li>UTF-8</li> </ul>		
Supported bar code	1D bar code2D bar codeCode128 subsets A.B.C, Code128UCC, EAN128, Interleave 2 of 5, Code 39, Code 93, EAN-13, EAN-8, Codabar, 		
Font & bar code rotation	0, 90, 180, 270 degree		
Command set	TSPL-EZ™		
Others	<ul> <li>Standard for real time clock</li> <li>Standard for buzzer</li> <li>Standard industry emulations right out of the box including Eltron® and Zebra® language support</li> <li>Built-in Monotype True Type Font engine</li> <li>Downloadable fonts from PC to printer memory</li> <li>Print head pressure force &amp; pressure location adjustable</li> <li>Ribbon supply spindle tension adjustable</li> <li>Automatic media/ribbon sensor selecting</li> <li>Heater element damage detection</li> <li>Clean print head warning</li> </ul>		

## 1.2.2 Printer Optional Features

The printer offers the following optional features.

Product option feature	User option	Dealer option	Factory option
Option Card (GPIO + Parallel)		0	
Internal full rewinding kit (Max. 8" OD)			0
Peel-off module assembly (Max.4 ips)		0	
Regular guillotine cutter (Max.4 ips) Media thickness: 0.06~0.15 mm Media type: receipt and label liner w/o glue		0	
Heavy duty cutter Media thickness: 0.06~0.30 mm Media type: receipt, tag, and label liner w/o glue		0	
Internal Bluetooth 4.0		0	
Wi-Fi a/b/g/n band (Slot-in)	0		
KP-200 Plus keyboard display unit	0		
KU-007 Plus programmable smart keyboard	0		
Note:			

#### Note:

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

# **1.3 Printer Specifications**

Printer Specifications			
Physical dimensions	298 mm (W) x 393 mm (H)x 510 mm (D)		
Weight	18 kg (39.68 lbs)		
Power	<ul> <li>Auto sensing power supply (20% print ratio)</li> <li>Input: AC 100-240V, 4-2A, 50-60Hz</li> <li>Output: DC 5V, 5A; DC 24V, 7A; DC 36V, 1.4A; Total 243W</li> <li>Note:</li> <li>The max. full web black bar is limited to 5 mm only, otherwise</li> </ul>		
	<ul> <li>printer may stop printing to protect power supply.</li> <li>Default delay time to power saver mode for standard model is 60 minutes.</li> </ul>		
Environmental condition	Operation: 5 ~ 40°C (41 ~ 104°F), 25~85% non-condensing Storage: -40 ~ 60 °C (-40 ~ 140°F), 10~90% non-condensing		

# 1.4 Print Specifications

•				
Print Specifications	MX240P	MX340P	MX640P	
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	Thermal transfer/ or direct thermal			
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	2,3,4,518 ips selectable	2,3,4,514 ips selectable	1.5,2,3 6 ips selectable	
(inches per second)	Up to 18 IPS	Up to 14 IPS	Up to 6 IPS	
	Max. 4 ips for peeler mode			
Max. print width	4.09" (104 mm)			
Max. print length	1000" (25400 mm)	450" (11430 mm)	100" (2540 mm)	
Printout bias	Vertical: 0.3 ~ 1 mm max. Horizontal: 1 mm max.			

# 1.5 Ribbon Specifications

Ribbon Specifications			
Ribbon outside diameter	Max. 90 OD		
Ribbon length	600 meter		
Ribbon core inside diameter	1" (25.4 mm)		
Ribbon width	25.4 mm ~ 114.3 mm (1"~4.5")		
Ribbon wound type	Ink coated outside wound, ink coated inside wound		
Ribbon end type	Transparency		

# 1.6 Media Specifications

Media Specifications	MX240P	MX340P	MX640P	
Media roll capacity	Max. 8" (203.2 mm) OD			
Media core diameter	3" (76.2 mm) ID core	)		
Media type	Continuous, die-cut,	black mark, externa	l fan-fold, notch	
Media wound type	Outside wound	ide wound		
Media width	20 mm ~ 114 mm (0.78" ~ 4.49")			
Media thickness         0.076 mm ~ 0.305 mm (2.99 ~ 12.01 mil)			)	
Label length	3 mm ~			
Label length (peeler mode)	Label length (peeler mode)25 mm ~ 152 mm (1" ~ 6")			
Label length (cutter mode)	200dpi: 25.4~2,286 mm (1" ~ 90") 300dpi & 600dpi: 25.4~1016 mm (1" ~ 40")		" ~ 40")	
Black mark	Min. 8 mm (W) x Min. 2 mm (H)			
Gap height Min. 2 mm				

# 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.



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



#### \* Recommended SD card specification.

Туре	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		
	V3.0 Class 10 UHS-I	16G	Scandisk		
- The DOS FAT file system is supported for the SD card.					

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.
 The miniSD/microSD card to SD card slot adapter is required.

# 2.3 Operator Control



#### 2.3.1 LED Indication and Keys

LED	Status	Indication	
	Off	Printer power off	
OPOWER	On	Printer power on	
ON-LINE	On	Printer is ready	
	Blinking	Printer is paused	
		Printer is downloading data	

	Off		Printer is ready		
	On		Carriage open or cutter error		
	Blinking		No paper, paper jam or no ribbon		
Keys			Function		
Soft keys		and	e labels on the footer of the UI will explain the function for left d right soft key. Check the labels on the footer of the UI screen. e meaning of the soft keys will vary.		
Navigational keys		Used	d to select icons, menu selection, and navigation in the UI.		

## 2.3.2 Main page Icons

Indicated icon	Indication		
	Wi-Fi device is ready (option)		
	Ethernet is connected		
*	Bluetooth device is ready (option)		
Ō	Media capacity %		
00	Ribbon capacity m		
7	TPH cleaning		
	Security lock		
Icon button	Function		
	Enter the menu		
	Calibrate the media sensor		
	Enter the "Favorites" option (please refer to section 0)		
$\checkmark$	Enter cursor (be marked in green) located option		
	Feed button (advance one label)		

#### 2.3.3 Touch Screen

Tap an item to open/use it.



Note:

For LCD Menu panel, please refer to section 7 for more details.

# 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



<image/>	4.	Thread ribbon above the ribbon guide bar and through ribbon sensor slot. (Please refer to "Loading path for ribbon" as following fig.)
	5.	Wind the ribbon rewind spindle counterclockwise roughly 3~5 circles until ribbon is smooth, properly stretched and wrinkle-free.
	6.	Close the print head mechanism by pushing the print head release lever.
		* Please refer to video on <u>TSC</u> <u>YouTube</u> .

# Loading path for ribbon

\* Ink coated outside wound



\* Ink coated inside wound



# 3.3 Loading the Media

#### 3.3.1 Loading the Media



- - 4. Pull the leading edge of the label forward through the media guide bar pass media sensor, and place the leading edge onto the platen roller.

5. Adjust the rear label guide (green) to fit the label width.



6. Adjust the front label guide (green) to fit the label width.



- Move the media sensor by adjusting the media sensor position adjustment knob, make sure the gap or black mark sensor is at the location where media gap/black mark will pass through for sensing.





- 8. Close print head release lever and label guide bar release lever.
- 9. Set media sensor type and calibrate the selected sensor.

#### Note:

- \* Please calibrate the gap/black mark sensor when changing media.
- \* Please refer to video on <u>TSC</u> <u>YouTube</u> or driver CD.

# Loading path for media



#### 3.3.2 Loading the Fan-fold/External Media



## Loading path for fan-fold labels



#### 3.3.3 Loading Media in Peel-off Mode (Option)



7. Feed the leading edge of liner through the peeler sensor and peel-off roller.





10. Close print head release lever and label guide bar release lever.

11. Press the FEED button to test.

#### 3.3.4 Loading Media in Rewind Mode (Option)




# 4. Moveable Print Head Pressure Adjustment Knob



The moveable print head pressure adjustment knob has 5 levels of adjustment. Because the printer's paper alignment is to the left side of mechanism, different media widths require different pressure to print correctly. Therefore it may require to adjust the pressure knob to get your best print quality. For example, if the label width is 4", adjust both print head pressure adjustment knobs to the same level. If the label is less than 2" wide, increase the left side print head pressure by rotating the adjustment knob clockwise and decrease the right side pressure by rotating the adjustment knob clockwise to level 1.

## 4.1 Mechanism Fine Adjustment to Avoid Ribbon Wrinkles

This printer has been fully tested before delivery. There should be no ribbon wrinkle presented on the media for general-purpose printing application. Ribbon wrinkle is related to the media thickness, print head pressure balance, ribbon film characteristics, print darkness setting...etc. In case the ribbon wrinkle happens, please follow the instructions below to adjust the printer parts.





The ribbon tension adjustment knob has 3 levels of adjustment. Because the printer's ribbon alignment is to the left side of mechanism, different ribbon width require different tension to print correctly. Therefore, it may require to adjust the ribbon tension knob to get your best print quality. The biggest tension is #1. Adjust the tension by turning the knobs to suitable # (1, 2 or3) on both ribbon supply & rewind spindles, suggest the tension # to be the same on both spindles. Factory default tension is #1.



## 5.1 Suggestion of Ribbon Tension Adjustment

#### For 4" width ribbon

If the ribbon width is 4", adjust both ribbon tension adjustment knobs to the #1 on ribbon supply & rewind spindles. (Factory default tension is #1)



Ribbon Supply Spindle Tension # 1



#### For 3" width ribbon

If the ribbon width is 3", adjust both ribbon tension adjustment knobs to the #2 on ribbon supply & rewind spindles.

#### Ribbon Rewind Spindle Tension # 2





#### For 2" width ribbon

If the ribbon width is 2", adjust both ribbon tension adjustment knobs to the #3 on ribbon supply & rewind spindles.

## **Ribbon Rewind Spindle**







# 6. 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.

## 6.1 Start the Diagnostic Tool

1. Double click on the Diagnostic tool icon



DiagTool.exe

to start the software.

	Diagnostic Tool 1.50 Language		
Features tab	English       O mm	USB Setup	Interface
I	Printer Configuration File Manager Bitmap Font Manager Co	ommand Tool	internace
	Printer Function Printer Information		
	Calibrate Sensor Version:	Cutting Counter: 0 0	
	Ethernet Setup Serial No:	Check Sum: Mileage: Km	
	RTC Setup Common Z D R	S-232 Wireless	
Printer	Factory Default Density	Ribbon Sensor 🗸	
functions	Reset Printer Paper Width	Ribbon Sensor     Inch Ribbon Encoder Err.	
	Print Test Page Paper Height	inch Code Page	
	Configuration Page Media Sensor	Country Code	Printer setup
	Gap	inch Head-up Sensor 🔽	
	Gap Offset	inch Reprint After Error	
	Ignore AUTO.BAS Post-Print Action	<ul> <li>Maximum Length inch</li> </ul>	
	Exit Line Mode Cut Piece	Gap Inten.	
	Password Setup	Bline Inten.	
		Continuous Inten.	
	Printer Status	Threshold Detection	
[	Shift X	_	
Printer Status	Get Status Clear Loa	ad Save Set Get	
	Get Status Clear Loa		
	LPT1 COM1 9600,N,8,1 RTS	2012/8/14 下午 06:03:01	

## **6.2 Printer Function**

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

USB cable	Other cable
USB Setup	COM  Setup 2
The 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 LCOM LPT ETHERNET

- 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
Ethernet 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
Factory Default	Factory Default	Initialize the printer and restore the settings to factory default.
Reset Printer	Reset Printer	Reboot printer
Print Test Page	Print Test Page	Print a test page
Configuration Page	Configuration Page	Print printer configuration
Dump Text	Dump Text	To activate the printer dump mode.
Ignore AUTO.BAS	Ignore AUTO.BAS	Ignore the downloaded AUTO.BAS program
Exit Line Mode	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.

## 6.3 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.

#### 6.3.1 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.

Interface	
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 © DHCP © Static IP
Ethernet Setup	IP 255.255.255
RTC Setup	Subnet Mask 255.255.255
Print Test Page	Gateway 255.255.255
Reset Printer	Printer Name PS-FF04E2
Factory Default	MAC Address 00-1B-82-FF-04-E2
Dump Text	MAC Address )
Ignore AUTO.BAS	
Configuration Page	Set Printer Name Set IP Cancel

#### 6.3.2 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.

4

DiagTool.exe

icon.

COM Setup	🖨 RS232 Setup	
USB COM LPT ETHERNET	COM Port	
	Baud Rate	9600 💌
	Data Bits	8
	Parity Check	None
	Stop Bit(s)	
	Hardware Handshaking	RTS
	Software Handshaking	None
		Set
		Cancel

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	© DHCP
RTC Setup	C Static IP
Print Test Page	m 255.255.255
Reset Printer	
Factory Default	265 265 265 265
Dump Text	PS-FEME2
Ignore AUTO.BAS	Printer Name 00-18-82-FF-04-E2
Configuration Page	MAC Address J00-1B-62-FF-04-E2
	Set Printer Name Set IP Cancel

#### 6.3.3 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



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	TCP/IP Sets	1D				
USB COM LPT ETHERNET	Printer Name           TT033-50           PS-C76790	MAC 00:18:92:FF:02:0C 00:18:11:C7:67:90	IP Address 10.0.6.125 10.0.6.24	Model Name TT033-50 DP-G321	Status Ready Ready	IP Setting IP Address/Printer Name: 10.0.6.125 Port: 9100
	Discover Devi	ce Change IP Addre	ss Factory Def	ault Web S	etup	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.

🖨 Ethernet S	Seirup 🔀
IP Setup © DHCP © Static IP	
IP	10.0.6.125
Subnet Mask	255.255.255.0
Gateway	10.0.6.253
Printer Name	TT033-50
MAC Address	00:1B:82:FF:02:0C
Set Printer Na	ame Set IP Cancel

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.

## 7.1 Enter the Menu



## 7.2 Menu Overview

There are 6 categories for the menu. You can easy to set the settings of printer without connecting the computer. Please refer to following sections for more details.





This "Interface" option is used to set the printer interface settings.



This "Advanced" option is used to set the printer LCD settings, initialization, cutter type, media low warning setting %...etc.



This "File Manager" option is used to check/ manager the printer available memory.



This "Diagnostic" optin is used to review printer to troubleshoot problems and other issues.

## 7.3 Setting

Tap the "Command Set" item on LCD to switch the TSPL and ZPL2. Or select the "Command Set" item by navigational key and press right soft key to switch the TSPL and ZPL2.



### 7.3.1 TSPL

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



ltem	Description	Default
Speed	Use this item to setup print speed. Available setting range is 2~18 for 203dpi, 2~14 for 300dpi and 1.5 ~6 for 600dpi.	203 dpi: 6 300 dpi: 4 600 dpi: 3
Density	Use this option to setup printing darkness. The available setting range is from 0 to 15, and the step is 1. You may need to adjust your density based on selected media.	8

Direction	the printout dir	ction DIRECTION 1	0	
	below,	ed to set the print mode. There are 6 modes as		
	Printer Mode None	Description Next label top of form is aligned to the print head		
	burn line location. (Tear Off Mode)			
Print mode	Batch Mode	Once image is printed completely, label gap/black mark will be fed to the tear plate location for tear away.	Batch Mode	
	Peeler Mode	Enable the label peel off mode.		
	Cutter Mode	Enable the label cutter mode.		
	Cutter Batch	Cut the label once at the end of the printing job.		
	Rewinder Mode	Enable the label rewinder mode.		
Offset	This item is us setting value ra	0 dot		
Shift X	This item is use	0 dot		
Shift Y	range is from -999 dots to 999 dots.		0 dot	
Reference X	This item is used to set the origin of printer coordinate system		0 dot	
Reference Y	horizontally and vertically. Available setting range is from 0 dot to 999 dots.		0 dot	
Code page	Use this item to	850		
Country	Use this option to range is from 2	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.

## 7.3.2 ZPL2

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



Item	Description	Default
Density	Use this item to setup printing darkness. The available setting range is from 0 to 30. You may need to adjust your density based on selected media.	16
Print Speed	Use this item to setup print speed. Available setting range is 2~18 for 203dpi, 2~14 for 300dpi and 1.5 ~6 for 600dpi.	203 dpi: 6 300 dpi: 4 600 dpi: 3

Tear Off	This item is used to fine tune media stop location. Available setting value range is from -120~120 dots.	0 dot
	This item is used to set the print mode. There are 3 modes as below,	
Print mode	Printer Mode         Description           Tear Off         Next label top of form is aligned to the print head burn line location.           Peeler Off         Enable the label peel off mode.           Cutter         Enable the label cutter mode	Tear Off
	Rewind Enable the label rewind mode	
Print Width	This item is used to set print width. The available value range is 2 ~ 999 dots.	812
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 Format Prefix	This feature is used to set control prefix character. This feature is used to set format prefix character.	N/A 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	Selections       Description         Feed       Printer will advance one label         Collibration         Printer will calibration the sensor levels,	No Motion
	Calibrationdetermine length and feed labelLengthPrinter determine length and feed labelNo MotionPrinter will not move media	
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.	
Reprint Mode	When reprint mode is enabled, you can reprint the last label printer by pressing 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	

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

## 7.4 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	This option is used to set the media sensor type and calibrate the selected sensor automatically. Printer will feed 2 to 3 gap labels to calibrate the sensor sensitivity automatically.	N/A
Manual setup	<ul> <li>In case "Automatic" cannot apply to the media, please use "Manual" function to set the paper length and gap/bline size then scan the backing/mark to calibrate the sensor sensitivity.</li> <li>Note: The "Media Capacity" item is used to calibrate the media capacity sensor %.</li> </ul>	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.	254 mm
Advanced	This function can set the minimum paper length and maximum gap/bline length for auto-calibrate the sensor sensitivity.	0 mm

## 7.5 Interface

This option is used to set the printer interface settings.



#### 7.5.1 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

## 7.5.2 Ethernet

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

module status, and reset the Ethernet module.



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

## 7.5.3 Wi-Fi

This option is used to set the printer Wi-Fi settings.



Item	Description	Default
Status	Use this menu to check the Wi-Fi IP address, MAC setting status	N/A
Config	<ul> <li>DHCP: This item is used to ON or OFF the DHCP (Dynamic Host Configuration Protocol) network protocol.</li> <li>Static IP: Use this menu to set the printer's IP address, subnet mask and gateway.</li> </ul>	DHCP
SSID	Use this menu to set the Wi-Fi SSID	N/A
Security	Use this menu to set the Wi-Fi security	Open
Password	Use this menu to set the Wi-Fi password	N/A

## 7.5.4 Bluetooth

This option is used to set the printer Bluetooth settings.



Item	Description	Default
Status	Use this menu to check the Bluetooth status.	N/A
Local Name	This item is used to set the local name for Bluetooth.	RF-BHS
Ping Code	This item is used to set the local ping code for Bluetooth.	0000

## 7.6 Advanced



ltem	Description	Default
Language	This item is used to setup the language on display.	English
Printer Information	This feature is used to check the printer serial number, printed mileage (m), printed labels (pcs) and cutting counter.	N/A
Initialization	This feature is used to restore printer settings to defaults.	N/A
Display Brightness	This item is used to setup the brightness for display. (Range 0~100)	50
Touchscreen Calibration	This feature is used to calibrate the touchscreen for best result.	N/A
Date & Time	This item is used to setup the date and time on display.	N/A
Security	This feature is used to set the password for locking the menu or favorites. The default password is 8888.	Disable
Cutter Type	This item is used to set the cutter type.	Guillotine
Media Low Warning	This item is used to set the warning for media low %. For example, if setting value is 10%, when media capacity was lower than 10%, the <sup>1</sup> % will be shown in red.	10%
Ribbon Low Warning	This item is used to set the warning for ribbon low. For example, if setting value is 30m, when ribbon capacity was lower than 30m, the or will be shown in red.	30m

	This item is used to check print head status and to set the settings for print head care.		
	Item	Description	
Printer Head Care	Warning	This item is used to enable/disable the print head clean warning. If enable this feature, once print head has been reached the setting mileage then the warning icon will be shown on printer UI for reminding user to clean the print head. The default setting is disable.	N/A
	Reset Counter	This item is used to reset the print head clean warning mileage after cleaned print head.	
	Interval	This item is used to set the expected mileage for reminding user to clean the print head. You have to enable the "TPH warning lock" for use. The default setting is 1 km.	
Contact us	This feature is used to check the contact information for tech support service		N/A

## 7.7 File Manager

This feature is used to check the printer available memory, show the files list, delete the files or run the files that saved in the printer DRAM/Flash/Card memory.



## 7.8 Diagnostic







## 7.9 Favorites

This feature can create customized menu list. You can organize the commonly used setting

options in "Favorites".

### Get organized "Favorites" list

Touch and hold a favorite option item, unit "Join Favorites" setting screen pops up. Tap "Yes" to add this setting option item to "Favorites" list.



#### Delete option item

Touch and hold the option item, unit "Delete Favorites" setting screen pops up. Tap "Yes" to delete this setting option item on "Favorites" list.



# 8 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.

Problem	Possible Cause	Recovery Procedure
Power indicator does not illuminate	* The power cord is not properly connected.	<ul><li>* Plug the power cord in printer and outlet.</li><li>* Switch the printer on.</li></ul>
Carriage Open	* The printer carriages are open.	* Please close the print carriages.
Not Printing	<ul> <li>* Check if interface cable is well connected to the interface connector.</li> <li>* Check if wireless or Bluetooth device is well connected between host and printer.</li> <li>* The port specified in the Windows driver is not correct.</li> </ul>	<ul> <li>* Re-connect cable to interface or chang a new cable.</li> <li>* Please reset the wireless device setting.</li> <li>* Select the correct printer port in the driver.</li> <li>* Clean the printhead.</li> <li>* Printhead's harness connector is not well connected with printheat. Turn off the printer and plug the connector again.</li> <li>* 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.</li> </ul>
No print on the label	<ul> <li>* Label or ribbon is loaded not correctly.</li> <li>* Use wrong type paper or ribbon</li> </ul>	<ul> <li>* Follow the instructions in loading the media and ribbon.</li> <li>* Ribbon and media are not compatible.</li> <li>* Verify the ribbon-inked side.</li> <li>* The print density setting is incorrect.</li> </ul>
No Ribbon	<ul> <li>* Running out of ribbon.</li> <li>* The ribbon is installed incorrectly.</li> </ul>	<ul> <li>* Supply a new ribbon roll.</li> <li>* Please refer to the steps in user's manual to reinstall the ribbon.</li> </ul>
No Paper	<ul> <li>* Running out of label.</li> <li>* The label is installed incorrectly.</li> <li>* Gap/black mark sensor is not calibrated.</li> </ul>	<ul> <li>* Supply a new label roll.</li> <li>* Please refer to the steps in user's manual to reinstall the label roll.</li> <li>* Calibrate the gap/black mark sensor.</li> </ul>
Paper Jam	<ul> <li>* Gap/black mark sensor is not set properly.</li> <li>* Make sure label size is set properly.</li> <li>* Labels may be stuck inside the printer mechanism.</li> </ul>	<ul> <li>* Calibrate the media sensor.</li> <li>* Set media size correctly.</li> <li>* Remove the stuck label inside the printer mechanism.</li> </ul>
Take Label	* Peel function is enabled.	<ul> <li>* If the peeler module is installed, please remove the label.</li> <li>* If there is no peeler module in front of the printer, please switch off the printer and install it.</li> <li>* Check if the connector is plugging correctly.</li> </ul>
Can't downloading the file to memory (FLASH / DRAM/CARD)	* The space of memory is full.	* Delete unused files in the memory.

	* OD sand is demonstrat	* Lies the summer test series it. OD series
	* SD card is damaged.	* Use the supported capacity SD card.
SD card is unable to use	* SD card doesn't insert	<ul> <li>* Insert the SD card again.</li> <li>* The supported SD card spec and the</li> </ul>
SD card is unable to use	correctly. * Use the non-approved SD	approved SD card manufacturers,
	card manufacturer.	please refer to section 2.2.3.
	* Ribbon and media is loaded	* Reload the supply.
	incorrectly	* Clean the print head.
	* Dust or adhesive	* Clean the platen roller.
	accumulation on the print	* Adjust the print density and print speed.
	head.	* Run printer self-test and check the print
	* Print density is not set	head test pattern if there is dot missing in
Poor Print Quality	properly.	the pattern.
	* Printhead element is	* Change proper ribbon or proper label
	damaged.	media.
	* Ribbon and media are	* Adjust the printhead pressure
	incompatible.	adjustment knob.
	* The printhead pressure is not	* The release lever does not latch the
	set properly.	printhead properly.
Missing printing on the left or		
Missing printing on the left or right side of label	* Wrong label size setup.	* Set the correct label size.
	* The print bood is dirty	* Clean the print head
Gray line on the blank label	* The print head is dirty.	* Clean the print head.
	* The platen roller is dirty.	* Clean the platen roller.
	* The printer is in Hex Dump	* Turn off and on the printer to skip the
Irregular printing	mode.	dump mode.
	* The RS-232 setting is	* Re-set the Rs-232 setting.
	incorrect.	-
	* -	* If the label is moving to the right side,
Label feeding is not stable (skew) when printing	* The media guide does not	please move the label guide to left.
(skew) when printing	touch the edge of the media.	* If the label is moving to the left side, please move the label guide to right.
	* Label size is not specified	· · · · · · · · · · · · · · · · · · ·
	properly.	* Check if label size is setup correctly.
	* Sensor sensitivity is not set	* Calibrate the sensor by Auto Gap or
Skip labels when printing	properly.	Manual Gap options.
	* The media sensor is covered	* Clear the GAP/Black mark sensor by
	with dust.	blower.
	* Printhead pressure is	
	incorrect.	* Please refer to the next chapter.
Wrinkle Problem	* Ribbon installation is	* Please set the suitable density to have
	incorrect.	good print quality.
	* Media installation is incorrect.	* Make sure the label guide touch the
	* Print density is incorrect.	edge of the media guide.
RTC time is incorrect when	* Media feeding is incorrect.	
	* The battery has run down.	* Check if there is a battery on the main
reboot the printer		board.
		* Set the correct label size.
The left side printout position		* Press [MENU] $\rightarrow$ [SELECT] x 3 $\rightarrow$
is incorrect	* The parameter Shift X in LCD	[DOWN] x 5 $\rightarrow$ [SELECT] to fine tune the
	menu is incorrect.	parameter of Shift X.
	I	

		<ul> <li>* Calibrate the sensor sensitivity again.</li> <li>* Set the correct label size and gap size.</li> <li>* Press [MENU] → [SELECT] x3→[DOWN]x6 → [SELECT] to fine tune the parameter of Shift Y.</li> <li>* If using the software BarTender, please set the vertical offset in the driver.</li> </ul>
The printing position of small label is incorrect	<ul> <li>* Media sensor sensitivity is not set properly.</li> <li>* Label size is incorrect.</li> <li>* The parameter Shift Y in the LCD menu is incorrect.</li> <li>* The vertical offset setting in the driver is incorrect.</li> </ul>	Page Setup       Graphics       Stock       Options       About         Media Settings

## 9 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
	<ol> <li>Always turn off the printer before cleaning the print head.</li> <li>Allow the print head to cool for a minimum of one minute.</li> <li>Use a cotton swab and 100% Ethanol or Isopropyl Alcohol to clean the print head surface.</li> </ol>	Clean the print head when changing a new label roll.
Print Head	Print Head	
	Head Cleaner Pen	Element
Platen Roller	<ol> <li>Turn the power off.</li> <li>Rotate the platen roller and wipe it thoroughly with water.</li> </ol>	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
2016/06/22	Modify agency compliance section	Camille
2016/08/19	Add a note for Energy star (power saver mode)	Camille
2016/08/24	Modify button color from black to gray	Camille
2016/11/10	Modify LCD feature name from "MyMenu" to "Favorites"	Camille
2016/12/20	Modify chapter 1.2.2 (add internal Bluetooth)	Camille
2017/8/25	Modify chapter 1.2.2(cutter spec)	Camille
2018/1/19	Add agency compliance section	Kate
2018/8/13	Modify Ch.1.2.1 Printer Standard Feature (Gap transmissive sensor and Black mark reflective sensor position adjustable range)	
2019/1/30	Modify Ch.2.3 Operator Control LCD main screen. Modify Ch.2.3.2 Main page Icons Ribbon capacity to m Modify Ch.7.6 Ribbon Low Warning description and default.	Kate
2019/4/18	Modify Ch.1.2.2 spec. of Regular guillotine cutter and Heavy duty cutter from paper thickness to media thickness Add Ch.1.2.2 Media type of Regular guillotine cutter and Heavy duty cutter	Kate
2019/5/2	Add note on Ch.1.2.2	Kate
2019/9/27	Modify CCC certification logo	Kate



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