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
FC	FCC part 15B, Class B
	AS/NZS CISPR 22, Class B
CUL LISTED I.T.E. E178707	UL 60950-1
	EN 60950-1
\mathbf{m}	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°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[™] printercontrol 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	\bigcirc	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)	\bigcirc	0	0
See-through ribbon end sensor	-	-	0
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	0
128MB Flash memory	\bigcirc	0	0
128 MB DDR2 DRAM	\bigcirc	0	0
Micro SD card reader for memory expansion, up to SDHC 32GB	\bigcirc	0	0
RS-232 interface (Max. 115,200 bps)	\bigcirc	\bigcirc	0
USB 2.0 interface (Hi-speed mode)	\bigcirc	0	0
Internal Ethernet print server (10/100 Mbps) interface	-	-	0
USB host	\bigcirc	0	0
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	0
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	\bigcirc	0	0
Clean print head warning	\bigcirc	0	0

Supported bar code		Supported			
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)	image BITMAP, BMP, PCX (Max. 256 colors graphics)	0	0	0
pported code page: Codepage 437 (Eng Codepage 737 (Gree Codepage 850 (Latir Codepage 852 (Latir Codepage 855 (Cyril Codepage 857 (Turk Codepage 860 (Port Codepage 861 (Icela Codepage 862 (Heb Codepage 863 (Free Codepage 863 (Free Codepage 864 (Arab Codepage 865 (Nord Codepage 866 (Rus Codepage 866 (Rus Codepage 869 (Gree Codepage 930 (Trad Codepage 936 (Sim) Codepage 932 (Japa Codepage 936 (Sim) Codepage 932 (Japa Codepage 932 (Japa Codepage 949 (Kore Codepage 1250 (Lat Codepage 1251 (Cyr) Codepage 1252 (Lat Codepage 1253 (Gree Codepage 1255 (He Codepage 1255 (He Codepage 1257 (Ba Codepage 1257 (Ba Codepage 1258 (Vie ISO-8859-1: Latin-1 ISO-8859-3: Latin-3 ISO-8859-4: Latin-4 ISO-8859-5: Cyrillic	ek) h-1) h-2) llic) sish) uguese) andic) rew) hch Canadian) bic) dic) sian) ek 2) ditional Chinese) plified Chinese) anese) ean) tin-2) rillic) tin-1) eek) rkish) brew) abic) ltic) etnam) (Western Europear) (South European)		о С	0	0

•	ISO-8859-9: Turkish ISO-8859-10: Nordic ISO-8859-15: Latin-9 UTF-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				
Note: This peel-off module is supported for the thermal/ pla	ain label only.		0	
Regular cutter (full cut guillotine cutter)				
Media thickness: 0.06 ~ 0.19 mm Media type: receipt and label liner w/o glue Note: Except for the linerless cutter, all regular/heavy duty/care label cutters DO NOT cut on media with glue.			0	
802.11 a/b/g/n wireless module (slot-in)			0	
KP-200 Plus keyboard display unit		0		
KU-007 Plus programmable smart keyboard		\bigcirc		
Bluetooth module (serial interface)		0		
External label roll mount		0		
Parallel port				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	226 mm(W) x 198 mm(H) x 332 mm(D)		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	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	Operation: 5 ~ 40°C (41 ~ 104°F), 25~85% non-condensing Storage: -40 ~ 60 °C (-40 ~ 140°F), 10~90% non-condensing				
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 mr	n (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, I	olack mark, external	fan-fold, notch	
Media wound type	Outside wound			
Media width	19 mm ~ 112 mm			
Media thickness	0.055 mm ~ 0.254 mm			
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. 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



Note:

* Recommended MicroSD card specification.

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

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

2.3 Operator Control

2.3.1 LED Indication and Key



LED	Status	Indication		LED	Status	Indication
	On	Other errors			On	Printer is ready
	On				Blinking	Pause
E)	On	Out of paper			On	Erasing memory
	Blinking	Paper jam			Blinking	Downloading file
	On	Out of ribbon			Blinking	Need to clear print head
	Blinking	Ribbon near end		JIP S	БШКШУ	Need to clear print head
	On	Print head open			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





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.





3.3 Loading the Media

3.3.1 Loading the Media



Place the paper, printing side face up, 4. through the media sensor and place the label leading edge onto the platen roller.

Move the media guides to fit the label 5. width by pushing the media guide adjustment button.

- Close the top cover gently. 6. 7.
- Use "Diagnostic Tool" to set the media sensor type and calibrate the selected sensor. (Start the "Diagnostic tool" \rightarrow Select the "Printer Configuration" tab \rightarrow Click the "Calibrate Sensor" button) Please refer to the diagnostic utility quick start guide for more information.

Note:

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

Loading path for media





3.3.2 Loading Media in Cutter Mode (Option)



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 software.



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

Features tab	Diagnostic Tool 1.50 Language English Printer Configuration File Manager Bitmap Font Manager		Interface
Γ	Printer Function Printer Configuration Calibrate Sensor Printer Information Ethernet Setup Serial No: RTC Setup Common Z D	Cutting Counter: 0 0 Check Sum: Mileage: Km RS-232 Wireless	
Printer functions	Factory Default Speed Beset Printer Paper Width	Ribbon Ribbon Sensor inch Ribbon Encoder Err.	
	Print Test Page Paper Height Configuration Page Gap Gap Dump Text Gap Offset	inch Code Page Country Code inch Head-up Sensor inch Reprint After Error	Printer setup
	Ignore AUTO.BAS Post-Print Action Exit Line Mode Reference	inch Reprint After Error ▼ Maximum Length Gap Inten. Bline Inten.	
Printer Status	Password Setup Direction Printer Status Shift X Shift Y	Continuous Inten. Threshold Detection	
	Get Status Clear	Load Save Set Get 2012/8/14 下午 06:03:01 2012/8/14 下午 06:03:01 1	

4.2 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.	LCOM 1 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 Derdak Factory Defailing		Initialize the printer and restore the settings to factory default.				
Reset Printer Reset Printer		Reboot printer				
Print Test PagePrint Test PageConfiguration PageConfiguration Page		Print a test 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.

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.

- DiagTool.exe 4
- Start the Diagnostic Utility by double clicking on the
 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 COM LPT	1
	_
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.

	🖨 Ethernet Setup			
Printer Function Calibrate Sensor	IP Setup © DHCP © Static IP			
Ethernet Setup RTC Setup	IP 255.255.255			
Print Test Page Beset Printer	Subnet Mask 255.255.255.255 Grateway 255.255.255.255			
Factory Default Dump Text	Printer Name PS-FF04E2 MAC Address 00-1B-82-FF-04-E2			
Ignore AUTO.BAS Configuration Page	Set Printer Name Set IP Cancel			
	Set Printer Name Set IP Cancel			

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.



icon.

- 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.

Interface		
COM 💌 Setup	RS232 Setup	
USB		
LPT	COM Port	
ETHERNET	Baud Rate	9600 💌
	Data Bits	8
	Parity Check	None
	Stop Bit(s)	1
	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 Seinp 🛛 🔀			
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	Giateway 255.255.255			
Dump Text	Printer Name PS-FF04E2			
Ignore AUTO.BAS	MAC Address 00-1B-82-FF-04-E2			
Configuration Page	MAC Address)			
	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



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	a TCP/IP Seine					
USB COM LPT ETHERNET	Printer Name 11033-50 PS-C76790	MAC 00:18:82: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	Change IP Addre	ss Factory Defa	web Se	tup	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:	
OHCP	
C Static IP	
	10.0.6.125
IP	
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.

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	ll 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.
- 3. Release the button when LED becomes red and blinking.
- 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.

Self-test printout	
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) RESET: 110 m (TPH) RESET: 0 (CUT) RESET: 0 (CUT)	 Model name F/W version Firmware checksum Printer S/N 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
Z SETTING DARKNESS: 16.0 SPEED: 4 IPS WIDTH: 4.00 INCH TILDE: 7EH (~) CARET: 5EH (^) DELIMITER: 2CH (,) POWER UP: NO MOTION HEAD CLOSE: NO MOTION	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
RS232 SETTING BAUD: 9600 PARITY: NONE DATA BIT: 8 STOP BIT: 1	Note: ZPL is emulating for Zebra [®] language. RS232 serial port configuration



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.

ASCII Data
$$\longrightarrow$$

FT PEEL OF
 $I = 0$ FF 0 II R
 I

Note:

- 1. Dump mode requires 4" wide paper width.
- 2. & **\blacksquare** 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:
 red (5 blinks) → red (5

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

Serial Port Settings	9600 bps, none parity, 8 data bits, 1 stop bit
Code Page	850
Country Code	001
Clear Flash Memory	No
IP Address	DHCP

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.



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	Description	
Speed	Use this item to	Use this item to setup print speed.	
Density	is from 0 to 15	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.	
Direction	the printout dir	Letting value is either 1 or 0. Use this item to setup ection. TION 0 DIRECTION 1 Ction	0
Print mode	This item is us below, Printer Mode None Batch Mode Peeler Mode Cutter Mode	ed to set the print mode. There are 5 modes as Description Next label top of form is aligned to the print head burn line location. (Tear Off Mode) Once image is printed completely, label gap/black mark will be fed to the tear plate location for tear away. Enable the label peel off mode. Enable the label cutter mode.	Batch Mode

	Cutter Batch Cut the label once at the end of the printing job.	
Offset	This item is used to fine tune media stop location. Available setting value is from "+" to "-" or "0" to "9".	+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 used to set the origin of printer coordinate system	000
Reference Y	horizontally and vertically. Available 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 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.



ltem	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		ed to fine tune media stop location. Available from "+" to "-" or "0" to "9".	+000
	This item is use as below,	ed to set the print mode. There are 3 modes	
Print mode	Printer Mode	Description	Tear Off
Print mode	Tear Off	Next label top of form is aligned to the print	Tear On
	Peeler Off	head burn line location.	
	Cutter	Enable the label peel off mode. Enable the label cutter mode	
Print Width	This item is use from "0" to "9".	ed to set print width. The available value is	N/A
List Fonts	to the label. Th optional memo		N/A
List Images	list to the label.	used to print current printer available images The images stored in the printer's DRAM, al memory card.	N/A
List Formats	This feature is list to the label. Flash or option	used to print current printer available formats The formats stored in the printer's DRAM, al memory card.	N/A
List Setup	This feature is the label.	used to print current printer configuration to	N/A
Control Prefix		used to set control prefix character.	N/A
Format Prefix		used to set format prefix character.	N/A
Delimiter Char		used to set delimiter character. used to set the action of the media when you tter.	N/A
	Selections	Description	No
Media Power Up	Feed	Printer will advance one label	Motion
			WIOLIOIT
	Calibration	Printer will calibration the sensor levels, determine length and feed label	WOUGH
	Length	determine length and feed label	WOTON
			MOTION
	Length No Motion	determine length and feed label Printer determine length and feed label Printer will not move media sed to set the action of the media when you	Motion
	Length No Motion This option is u	determine length and feed label Printer determine length and feed label Printer will not move media sed to set the action of the media when you	
Head Close	Length No Motion This option is u close the print	determine length and feed labelPrinter determine length and feed labelPrinter will not move mediaused to set the action of the media when youhead.DescriptionPrinter will advance one label	No Motion
Head Close	Length No Motion This option is u close the print Selections	determine length and feed labelPrinter determine length and feed labelPrinter will not move mediaused to set the action of the media when youhead.DescriptionPrinter will advance one labelPrinter will calibration the sensor levels,	No
Head Close	Length No Motion This option is u close the print Selections Feed Calibration	determine length and feed label Printer determine length and feed label Printer will not move media used to set the action of the media when you head. Description Printer will advance one label Printer will calibration the sensor levels, determine length and feed label	No
Head Close	Length No Motion This option is u close the print Selections Feed	determine length and feed labelPrinter determine length and feed labelPrinter will not move mediaused to set the action of the media when youhead.DescriptionPrinter will advance one labelPrinter will calibration the sensor levels,	No
	Length No Motion This option is u close the print Selections Feed Calibration Length No Motion	determine length and feed label Printer determine length and feed label Printer will not move media used to set the action of the media when you head. Description Printer will advance one label Printer will calibration the sensor levels, determine length and feed label Printer determine length and feed label Printer will not move media	No Motion
Head Close Label Top	Length No Motion This option is u close the print Selections Feed Calibration Length No Motion This option is u label. The rang	determine length and feed labelPrinter determine length and feed labelPrinter will not move mediaused to set the action of the media when youhead.DescriptionPrinter will advance one labelPrinter will calibration the sensor levels,determine length and feed labelPrinter determine length and feed labelPrinter will not move mediaused to adjust print position vertically on thee is -120 to +120 dots.	No
	Length No Motion This option is u close the print Selections Feed Calibration Length No Motion This option is u label. The rang This option is u	determine length and feed labelPrinter determine length and feed labelPrinter will not move mediaresed to set the action of the media when youhead.DescriptionPrinter will advance one labelPrinter will calibration the sensor levels, determine length and feed labelPrinter determine length and feed labelPrinter will not move mediased to adjust print position vertically on the e is -120 to +120 dots.sed to adjust print position horizontally on the	No Motion
Label Top	Length No Motion This option is u close the print Selections Feed Calibration Length No Motion This option is u label. The rang This option is u label. The rang	determine length and feed labelPrinter determine length and feed labelPrinter will not move mediaused to set the action of the media when youhead.DescriptionPrinter will advance one labelPrinter will calibration the sensor levels,determine length and feed labelPrinter determine length and feed labelPrinter will not move mediaused to adjust print position vertically on thee is -120 to +120 dots.	No Motion 0

original dots per inch (dpi) value; the second, the dpi to	
which you would like to scale.	

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.



Item	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 bluetooth settings.



ltem	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



ltem	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.



ltem	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 name
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 NON-RESET: 0 CUT) RESET: 0 CUT)	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	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.

Menu	Di	iagn	ost	ics						Dump	Mode
	DOWNLOA	0D	0A	44	4 F	57	4E	4C	4F	4 I	
	D "TEST2.	44	20	22	54	45	53	54	32	2E	
	DAT", 5, CL	44	41	54	22	2C	35	2C	43	4C	
	S DOWNLO	53	0 D	0A	44	4F	57	4E	4C	4 F	
	AD F,"TES	41	44	20	46	2C	22	54	45	53	
	T4.DAT",5	54	34	2E	44	41	54	22	2C	35	
	,CLS DOW	2C	43	4C	53	0 D	0A	44	4F	57	
	NLOAD "TE	4E	4C	4F	41	44	20	22	54	45	
	ST2.DAT",	53	54	32	2E	44	41	54	22	2C	
	5,CLS DO	35	2C	43	4 C	53	0 D	0 A 0	44	4 F	
	WNLOAD F,	57	4E	4C	4 F	41	44	20	46	2C	
	"TEST4.DA	22	54	45	53	54	34	2E	44	41	
	T",5,CLS	54	22	2C	35	2C	43	4 C	53	0D	
	DOWNLOAD	0A	44	4F	57	4E	4C	4 F	41	44	
	"TEST2.D	20	22	54	45	53	54	32	2E	44	
	AT",5,CLS	41	54	22	2C	35	2C	43	4C	53	
	DOWNLOA										
	D F, "TEST										
	4.DAT",5,						22	2C	35	2C	
	CLS	43	4C	53	0 D	0A					
						1				\mathcal{M}	
CII Data									1		
										/	
							1				
							T				

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.



6.8.5 Sensor

This feature is used to check media sensor state.



6.9 Advanced

This feature is used to set the printer LCD settings.



ltem	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.



ltem	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 is correct when using the static IP address. Wait a few seconds let the printer get

Gray line on the blank label	* The print head is dirty.* The platen roller is dirty.	* Clean the print head.* Clean the platen roller.
Missing printing on the left or right side of label	* Wrong label size setup.	* Set the correct label size.
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.
Can't downloading the file to memory (FLASH / DRAM/CARD)	* The space of memory is full.	* Delete unused files in the memory.
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.
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.
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.
No print on the label	 * Label or ribbon is loaded not correctly. * Use wrong type paper or ribbon 	 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.

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. * JPEYBYE Page Setup Graphics Stock Options About Media Settings Method: Use Current Printer Setting Jype: Labels With Gaps Gap Leight: 3.00 mm Media Handling Post-Print Action: Tear Off Ogcurrence: After Every Page Interval: Eeed Offset 0.00 mm Position Adjustments Vertical Offset: 0.00 mm Batter Diff Set: 0.00 mm State Diffset: 0.00 mm		

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.
		Print Head
Print Head	Print Head Element Head Cleaner Pen	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
2019/1/30	Modify section 6.1 Main screen UI	Kate
2019/2/1	Delete section 1.2.2 RFID option	Kate
2019/4/23	Modify section 1.2.2 Regular cutter (full cut guillotine cutter) specification	Kate
2019/6/14	Modify section 2.2.2 No.2 Gap sensor (receiver) to Gap sensor (transmitter) Modify section 2.2.2 No.12 Black mark sensor to Black mark sensor/ Gap sensor (receiver) Delete section 2.2.2 No. 14 Gap sensor (transmitter)	
2019/10/3	Modify CCC certification logo	Kate



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