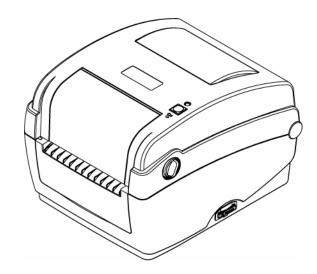
TTP-245C / TTP-343C / TTP-244CE

THERMAL TRANSFER / DIRECT THERMAL BAR CODE PRINTER





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1. Introduction 1.1 Product Introduction

Thank you for purchasing TSC bar code printer. Although the printer takes only a small amount of space, it delivers reliable, superior performance.

This printer provides both thermal transfer and direct thermal printing at user selectable speed of: 2.0, 3.0, 4.0 or 5.0 ips, for TTP-245C series; 2.0 or 3.0 ips for TTP-343C series. It accepts roll feed, die-cut, and fan-fold labels for both thermal transfer and direct thermal printing. All common bar codes formats are available. Fonts and bar codes can be printed in 4 directions, 8 different alphanumeric bitmap fonts and a build-in true type font capability. You will enjoy high throughput for printing labels with this printer.

1.2 Compliances

CE Class B:

EN55022: 1998+A1: 2000+A2: 2003 EN55024: 1998+A1: 2001+A2: 2003 IEC 61000-4 Series EN61000-3-2: 2006 & EN61000-3-3: 1995+A1: 2001 FCC Part 15, Class B UL, CUL C-Tick: CFR 47, Part 15/CISPR 22 3rd Edition: 1997, Class B ANSI C63.4: 2003 Canadian ICES-003 TÜV-GS: EN60950: 2000

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 Flűssig-oder Aerosolreiniger. Am besten eignet sich ein angefeuchtetes Tuch zur Reinigung.

4.Die Netzanschlußsteckdose soll nahe dem Gerät angebraucht 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.Beáchten Sie beim Anschluß an das stromnetz die Anschlußwerte.

8. Dieses das Gerät kann bis zu einer Außentemperatur von maximal 40° C betieben werden.

(CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer instructions.)

"ORSICHT"

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

WARNING HAZARDOUS MOVING PARTS KEEP FINGERS AND OTHER BODY PARTS AWAY

CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

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

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

Note :

- * Continuous printing will cause printer motor overheat. Printer will stop printing automatically about 10~15 minutes until motor is cooling down. Please don't turn off power when printer pauses or the data transfered to printer buffer will be lost.
- * The maximum printing ratio per dot line is 15% for this printer. To print the full web black line, the maximum black line height is limited to 40 dots, which is 5mm for 203 DPI resolution printer and 3.3mm for 300 DPI resolution printer.

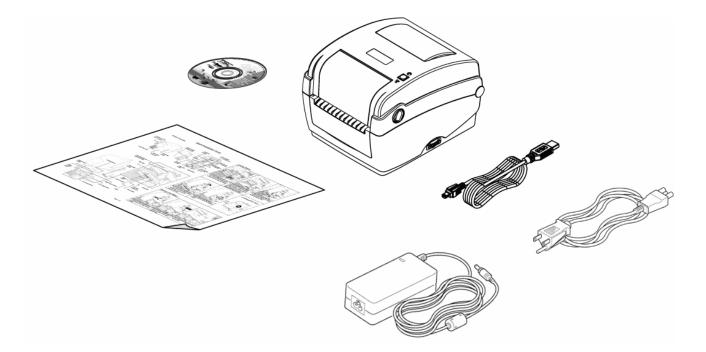
2. Operations Overview

2.1 Unpacking and Inspection

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

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

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



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

2.2 Printer Overview

2.2.1 Front View

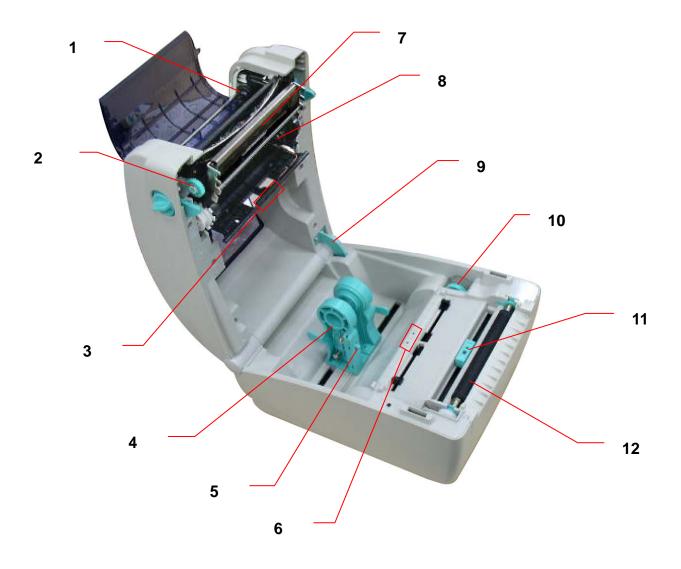


- 1. Ribbon access cover
- 2. Top cover open lever
- 3. Media view window
- 4. LED indicator
- 5. Feed button
- 6. SD card socket

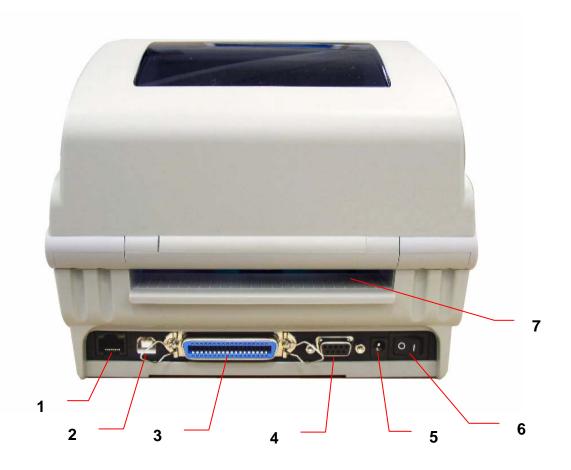
SD V 1.0, V 1.1	SD V 2.0 (SDHC)			
✓ 128MB	✓ 4GB class 6			
✓ 256MB				
✓ 512MB				
✓ 1GB				
-Supported DOS FAT file system.				
-Folders stored on the SD card should be in the 8.3 filename format.				
-Approved SD card manufacturer: SanDisk, Transcend.				

* Recommended SD card specification.

2.2.2 Interior view



- 1. Ribbon rewind hub
- 2. Ribbon rewind gear
- 3. Gap sensor (receiver)
- 4. Media holder
- 5. Media holder lock switch
- 6. Gap sensor (transmitter)
- 7. Printhead
- 8. Ribbon supply hub
- 9. Top cover support
- 10. Media guide adjustment knob
- 11. Black mark sensor
- 12. Platen roller

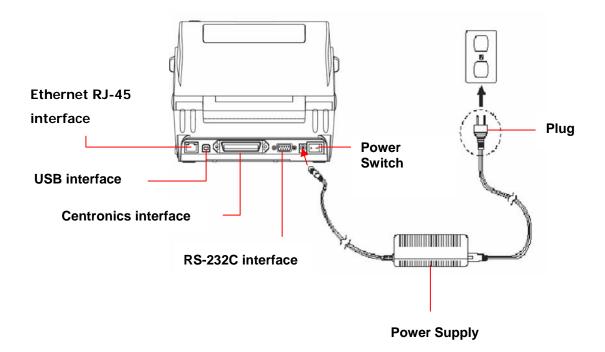


- 1. Ethernet interface
- 2. USB interface
- 3. Centronics interface
- 4. RS-232C interface
- 5. Power jack socket
- 6. Power switch
- 7. Fan-fold paper entrance chute

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.

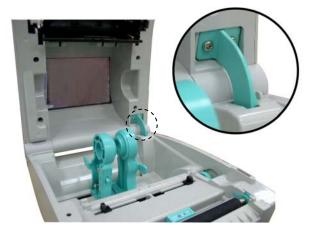


3.2 Open / Close the Top Cover

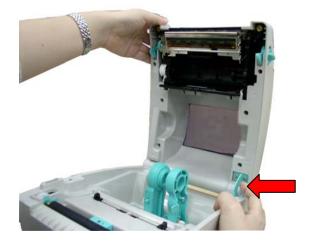
1. Open the printer top cover by pulling the green tabs located on each side towards the front of the printer, then lift the top cover to the maximum open angle.



2. A top cover support at the rear of the printer will engage with lower inner cover to hold the printer top cover open.



3. Hold the top cover and press the top cover support to disengage the top cover support with lower inner cover. Gently close the top cover.



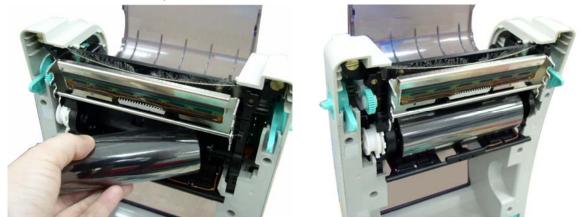
3.3 Loading the Ribbon

- 1. Open the printer's top cover by pulling the green top cover open levers located on each side of the printer and lifting the top cover to the maximum open angle.
- 2. Open the ribbon access cover.



Note:

- 1. In normal printing mode, ribbon access cover can be opened while opens the top cover. Ribbon access cover can be closed while top cover is open or close.
- 2. In peeler and cutter mode, please open the top cover then the ribbon access cover can be opened or closed.
- 3. Insert the ribbon right side onto the supply hub. Align the notches on the left side and mount onto the spokes.



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



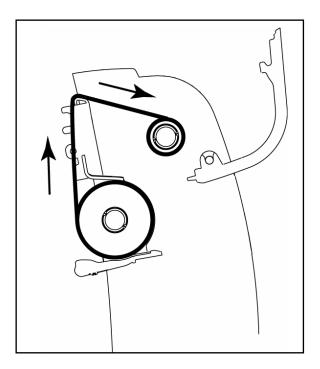
5. Stick the ribbon onto the ribbon rewind paper core.



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



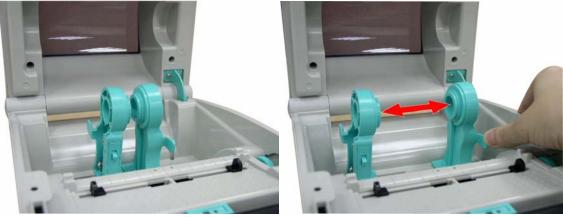
• Loading Path for Ribbon



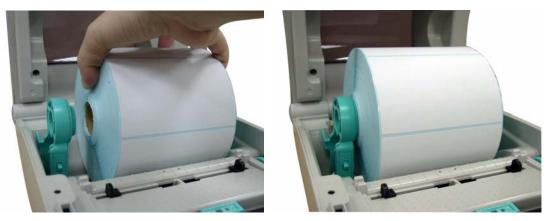
3.4 Loading the Media

3.4.1 Loading the media

- 1. Open the printer top cover by pulling the green tabs located on each side towards the front of the printer, then lift the top cover to the maximum open angle.
- 2. Separate and hold open the media holders.



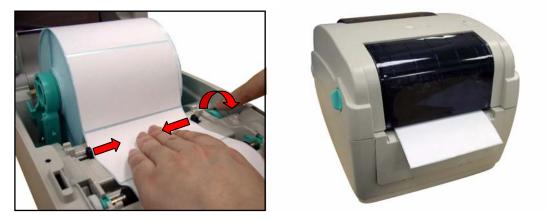
3. Place the roll between the holders and close them onto the core.



4. Press down the media holder lock switch to hold the label roll firmly.

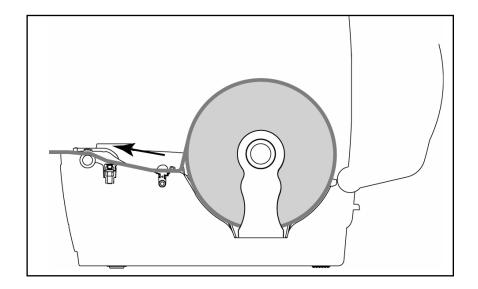


5. Place the paper, printing side face up, through the media sensor and place the label leading edge onto the platen roller. Move the media guides to fit the label width by turning the guide adjuster knob. Disengage the top cover support and close the top cover gently.



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

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

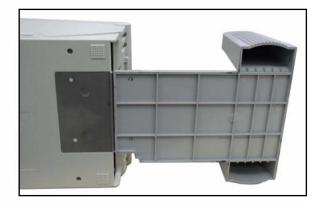


• Loading path for roll labels

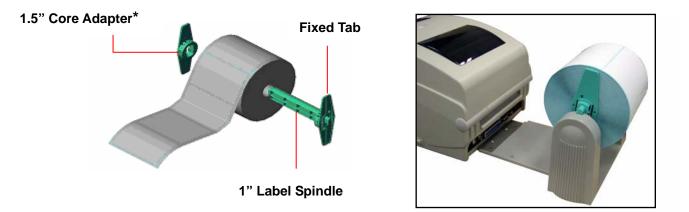
3.4.2 External Label Roll Mount Installation (Option)

1. Attach an external paper roll mount on the bottom of the printer.

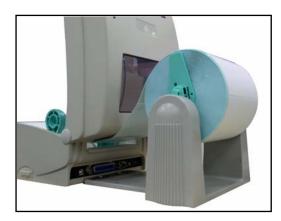


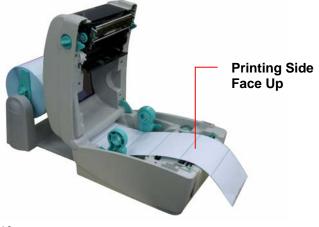


 Insert a 1" label spindle into a paper roll (* If your paper core is 1 inch, remove the 1.5" core adapter from the fixed tab. If label width is 4 inch wide, two fixing tabs are not required.). And install it on the external paper roll mount.



- 3. Open the printer's top cover and separate the media holders to fit the media width.
- 4. Press down the media holder lock switch to fix the media holder.
- 5. Feeds the media through the rear external label entrance chute. And place the paper, printing side face up, through the media sensor and place the label leading edge onto the platen roller.





- 6. Move the media guides to fit the label width by turning the guide adjuster knob.
- 7. Disengage the top cover support and close the top cover gently.

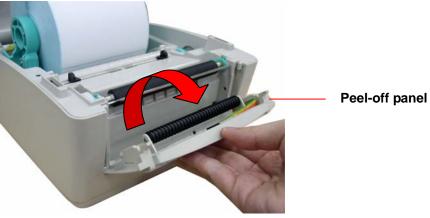


 Use "Diagnostic Tool" to set the media sensor type and calibrate the selected sensor. (Start the "Diagnostic tool" → Select the "Printer Configuration" tab → Click the "Calibrate Sensor" button) Please refer to the diagnostic utility quick start guide for more information.

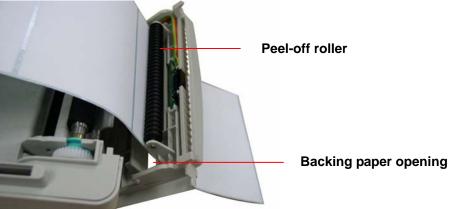
Note: Please calibrate the gap/black mark sensor when changing media.

3.4.3 Loading Media in Peel-off Mode (Option)

- 1. Refer to section 3.4.1 to load the media.
- 2. Feed the paper, printing side facing up, through the paper guide and pass over the platen.
- 3. Move the media guides to fit the label width by turning the guide adjuster knob.
- 4. 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.
- 5. Open the peel-off panel by pulling it out.



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



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



- 8. Disengage the top cover support and close the top cover gently.
- 9. Peeling will automatically start. Press the FEED button to test.



Note:

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

3.4.4 Loading Media in Cutter Mode (Option)

- 1. Refer to section 3.4.1 to load the media.
- 2. Lead the media through the cutter paper opening.
- 3. Move the media guides to fit the label width by turning the guide adjuster knob.
- 4. Disengage the top cover support and close the top cover gently.
- 5. Use "Diagnostic Tool" to set the media sensor type and calibrate the selected sensor. (Start the "Diagnostic tool" → Select the "Printer Configuration" tab → Click the "Calibrate Sensor" button) Please refer to the diagnostic utility quick start guide for more information.

Note:

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

3.5 Diagnostic Tool

The Diagnostic Utility is a toolbox that allows users to explore the printer's settings and status; change printer settings; download graphics, fonts, and firmware; create printer bitmap fonts; and to send additional commands to the printer. Using this convenient tool, you can explore the printer status and settings and troubleshoot the printer.

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

3.5.1 Start the Diagnostic Tool

1. Double click on the Diagnostic tool icon



[®] to start the software.

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

Features tab Interface Printer Configuration Flore Configuration Printer Function Flore Configuration Factory Default Dump Text Printer Function Flore Configuration Factory Default Printer Configuration Printer Function Flore Configuration Factory Default Printer Setup Speed Ribbon: Cafibrate Sensor Peaper Widthumit: Paper Height(unit): Country Code: Printer Setup Gap Unite: Bibmer Setup Gap Inten: Bibmer I Setup Gap Inten: Paper Height(unit): Bine Inten: Paper I Height(unit): Bine Inten: Printer Status Gap Office(unit): Bibmer I Setup Baud Rate: Printer Status Out of Paper Out of Paper OfficeL Stop Bi(s) Phinter Bibon Shit X: Other Enor Shit X: Shit Y: Gastate Stop Bi(s)		🖨 Diagnostic Tool					
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Printer functions Dump Text Configuration Page RTC Setup Speed: Milage: Km Check Sum: Inch mm Printer Setup Calibrate Sensor Pointer Setup Density: Code Page: Image:		Factory Default			Unit		
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Ignore AUTO.BAS Media Sensor: Reprint After Error: Image: Continuous Inten.: Ethemet Setup Gap Offset(unit): Gap Inten.: Gap Inten.: Printer Status Gap Offset(unit): Bine Inten.: Printer Status Paper Jam Out of Paper Reference: Data Bits: Image: Continuous Inten.: Pause Offset: Stop Bit(s): Stop Bit(s): Image: Continuous Inten.: Printer Status Shift X: Shift X: Stop Bit(s): Image: Continuous Inten.:		Reset Printer	Paper Width(unit):	Country Code:	-		
Ethemet Setup Gap(unit): Gap Inten:: Printer Status Gap Offset(unit): Bline Inten.: Ready Post-Print Action: Continuous Inten.: Paper Jam Out of Paper Baud Rate: Image: Continuous Inten.: Out of Paper Direction: Image: Continuous Inten.: Image: Continuous Inten.: Printer Status Out of Paper Data Bits: Image: Continuous Inten.: Out of Ribbon Direction: Image: Continuous Inten.: Image: Continuous Inten.: Pause Offset: Stop Bit(s): Image: Continuous Inten.: Other Error Shift X: Image: Continuous Inten.: Image: Continuous Inten.: Printer Status Offset: Stop Bit(s): Image: Continuous Inten.:		Print Test Page	Paper Height(unit):	Head-up Sensor:	•		
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		Get Status	Clear Load	Save	Set	Read	
LPT1 COM1 9600,N,8,1 RTS 2008/2/19 下午 02:04:29		LPT1 COM1 9	600,N,8,1 RTS		2008/2/19	下午 02:04:29	

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

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

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

Note:

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

3.6 Install SD Memory Card

1. Open the SD memory card cover.





2. Plug in the SD card on main board.





3. Close the memory card cover.



* Recommended SD card specification.

SD	V 1.0, V 1.1	SD V 2.0 (SDHC)			
✓	128MB	✓ 4GB class 6			
✓	256MB				
✓	512MB				
✓	1GB				
-Su	-Supported DOS FAT file system.				
-Folders stored on the SD card should be in the 8.3 filename format.					
-Approved SD card manufacturer: SanDisk, Transcend.					

4. LED and Button Functions

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

4.1 LED indicator

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

4.2 Regular button function

1. Feed labels

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

2. Pause the printing job

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

4.3 Power on utilities

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

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

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

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

4.3.1 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. (Any red will do during the 5 blinks).
- It will calibrate the ribbon sensor and gap/black mark sensor sensitivity.
- The LED color will be changed as following order : Amber → red (5 blinks) → amber (5 blinks) → green (5 blinks) → green/amber (5 blinks) → red/amber (5 blinks) → solid green

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.

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

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

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

Note:

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.

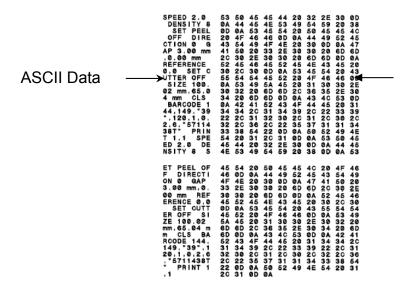
Self-test

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.

PRINTER INFO. TTP245C Version: 6.33 EZ MILAGE(m): 272 CHECKSUM: 0594C7F2 SERIAL PORT: 9600,N,8,1 CODE PAGE: 850 COUNTRY CODE: 001 SPEED: 2 INCH DENSITY: 12 SIZE: 4.00, 2.50 GAP: 0.00, 0.00 TRANSPARENCE: 16 MAC ADDRESS: 00-1B-82-FF-01-98 DHCP ENABLED: YES IP ADDRESS: 10.0.2.88	 Serial port setting Code page Country code Print speed
SUBNET MASK:255.255.255.0DEFAULT GATEWAY:10.0.2.254***********************************	File management information

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.



Hex decimal data related to left column of ASCII data

Note:

- 1. Dump mode requires 4" wide paper width.
- 2. Turn off / on the power to resume printer for normal printing.
- 3. Press FEED button to back to the previous menu.

4.3.3 Printer Initialization

Printer initialization is used to clear DRAM and restore printer settings to defaults. 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 **green** after 5 amber blinks. (Any green will do during the 5 blinks).
- The LED color will be changed as following: Amber → red (5 blinks) → amber (5 blinks) → green (5 blinks) → green/amber (5 blinks) → red/amber (5 blinks) → solid green

Parameter	Default setting
Speed	127 mm/sec (5 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

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

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

Please follow the steps as below.

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

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

Please follow the steps as below.

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

3. Release the button when LED turns **red/amber** after 5 green/amber blinks. (Any red/amber will do during the 5 blinks).

The LED color will be changed as following: Amber → red (5 blinks) → amber (5 blinks) → green (5 blinks) → green/amber (5 blinks) → red/amber (5 blinks) → solid green

4.3.6 Skip AUTO.BAS

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

Please follow the procedures below to skip an AUTO.BAS program.

- 1. Turn off printer power.
- 2. Press the FEED button and then turn on power.
- 3. Release the FEED button when LED becomes **solid green**.
- The LED color will be changed as following: Amber → red (5 blinks) → amber (5 blinks) → green (5 blinks) → green/amber (5 blinks) → red/amber (5 blinks) → solid green
- 4. Printer will be interrupted to run the AUTO.BAS program.

5. Troubleshooting

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

5.1 LED Status

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

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

Note:

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

5.2 Print Quality

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

6. Maintenance

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

- 1. Please use one of following material to clean the printer.
- Cotton swab (Head cleaner pen)
- Lint-free cloth
- Vacuum / Blower brush
- 100% ethanol

2. The cleaning process is described as following:

Printer Part	Method	Interval
Print Head	1. Always turn off the printer before cleaning	Clean the print head when changing a
	the print head.	new label roll
	2. Allow the print head to cool for a minimum	
	of one minute.	
	3. Use a cotton swab and 100% ethanol to	
	clean the print head surface.	
	Drint Use d	Print Head
	Print Head Element Head Cleaner Pen	Element
Platen Roller	1. Turn the power off.	Clean the platen roller when changing
	2. Rotate the platen roller and wipe it	a new label roll
	thoroughly with 100% ethanol and a	
	cotton swab, or lint-free cloth.	
Tear Bar/Peel Bar	Use the lint-free cloth with 100% ethanol to	As needed
	wipe it.	
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. DO NOT use medical alcohol, which may damage the printer head.
- Regularly clean the print head and supply sensors once change a new ribbon to keep printer performance and extend printer life.
- Continuous printing will cause printer motor overheat. Printer will stop printing automatically about 10~15 minutes until motor is cooling down. Please don't turn off power when printer pauses or the data transfered to printer buffer will be lost.
- The maximum printing ratio per dot line is 15% for this printer. To print the full web black line, the maximum black line height is limited to 40 dots, which is 5mm for 203 DPI resolution printer and 3.3mm for 300 DPI resolution printer.

Revise History

Date	Content	Editor
2008/8/6	Revise the 3.4.3 section(Loading media in peel-off mode)	Camille



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