

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 LED color will be changed as following pattern:							
Functions	LED color	Amber	Red (5 blinks)	Amber (5 blinks)	Green (5 blinks)	Green/Amber (5 blinks)	Red/Amber (5 blinks)	Solid green
1. Ribbon Sensor Calibration and Gap / black mark sensor calibration		<i>Release</i>						
2. Gap / black mark sensor calibration, Self-test and enter dump mode			<i>Release</i>					
3. Printer initialization				<i>Release</i>				
4. Set black mark sensor as media sensor and calibrate the black mark sensor						<i>Release</i>		
5. Set gap sensor as media sensor and calibrate the gap sensor							<i>Release</i>	
6. Skip AUTO.BAS								<i>Release</i>

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.

Self-test printout

PRINTER INFO.	
TTP245C Version: 6.33 EZ	Print head test pattern
MILEAGE(m): 272	Printer model name & Main board firmware version
CHECKSUM: 0594C7F2	Printed mileage
SERIAL PORT: 9600,N,8,1	Main board firmware checksum
CODE PAGE: 850	Serial port setting
COUNTRY CODE: 001	Code page
SPEED: 2 INCH	Country code
DENSITY: 12	Print speed
SIZE: 4.00 , 2.50	Print darkness
GAP: 0.00 , 0.00	Label size (width, height)
TRANSPARENCY: 16	Gap size (vertical gap, offset)
MAC ADDRESS: 00-1B-82-FF-01-98	Sensor sensitivity
DHCP ENABLED: YES	
IP ADDRESS: 10.0.2.88	
SUBNET MASK: 255.255.255.0	
DEFAULT GATEWAY: 10.0.2.254	

FILE LIST:	0 FILE(S)
DRAM FILE:	0 FILE(S)
FLASH FILE:	0 FILE(S)
PHYSICAL DRAM:	8192 KBYTES
AVAILABLE DRAM:	256 KBYTES FREE
PHYSICAL FLASH:	2048 KBYTES
AVAILABLE FLASH:	1088 KBYTES FREE
END OF FILE LIST	*****

Print head test pattern

Printer model name & Main board firmware version

Printed mileage

Main board firmware checksum

Serial port setting

Code page

Country code

Print speed

Print darkness

Label size (width, height)

Gap size (vertical gap, offset)

Sensor sensitivity

File management information

Self-test printout (with printer firmware V7.0 and later version)

SYSTEM INFORMATION	
MODEL: XXXXXX	Model name
FIRMWARE: X.XX	F/W version
CHECKSUM: XXXXXXXX	Firmware checksum
S/N: XXXXXXXXXXXX	Printer S/N
TCF: NO	TSC configuration file
DATE: 1970/01/01	System date
TIME: 00:04:18	System time
NON-RESET: 110	m (TPH)
RESET: 110	m (TPH)
NON-RESET: 0	(CUT)
RESET: 0	(CUT)

Model name

F/W version

Firmware checksum

Printer S/N

TSC configuration file

System date

System time

Printed mileage (meter)

Cutting counter

PRINTING SETTING

SPEED: 5 IPS Print speed (inch/sec)
DENSITY: 8.0 Print darkness
WIDTH: 4.00 INCH Label size (inch)
HEIGHT: 4.00 INCH Gap distance (inch)
GAP: 0.00 INCH Gap/black mark sensor intension
INTENSION: 5 Code page
CODEPAGE: 850
COUNTRY: 001 Country code

Z SETTING

DARKNESS: 16.0 ZPL setting information
SPEED: 4 IPS Print darkness
WIDTH: 4.00 INCH Print speed (inch/sec)
TILDE: 7EH (~) Label size
CARET: 5EH (^) Control prefix
DELIMITER: 2CH (,) Format prefix
POWER UP: NO MOTION Delimiter prefix
HEAD CLOSE: NO MOTION Printer power up motion
Printer head close motion

Note:
ZPL is emulating for Zebra® language.

RS232 SETTING

BAUD: 9600
PARITY: NONE
DATA BIT: 8
STOP BIT: 1

RS232 serial port configuration

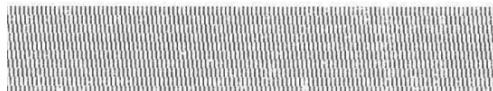
DRAM FILE (0 FILES)

PHYSICAL XXXX KBYTES
AVAILABLE XXXX KBYTES

Numbers of download files
Total & available memory space

FLASH FILE (0 FILES)

PHYSICAL XXXX KBYTES
AVAILABLE XXXX KBYTES



Print head check pattern