

## 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:						
LED color	Amber	Red (5 blinks)	Amber (5 blinks)	Green (5 blinks)	Green/Amber (5 blinks)	Red/Amber (5 blinks)	Solid green
Functions							
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

#### 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:**

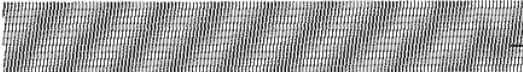
Please select gap or black mark sensor by Diagnostic Tool or by GAP or BLINE command prior to calibrate the sensor.

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	
<pre> 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  SUBNET MASK: 255.255.255.0 DEFAULT GATEWAY: 10.0.2.254 ***** FILE LIST: 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 ***** </pre>	<p>Print head test pattern</p> <p>Printer model name &amp; Main board firmware version</p> <p>Printed mileage</p> <p>Main board firmware checksum</p> <p>Serial port setting</p> <p>Code page</p> <p>Country code</p> <p>Print speed</p> <p>Print darkness</p> <p>Label size (width, height)</p> <p>Gap size (vertical gap, offset)</p> <p>Sensor sensitivity</p> <p>File management information</p>

Self-test printout (with printer firmware V7.0 and later version)	
<pre> -----       SYSTEM INFORMATION ----- MODEL:  xxxxxx FIRMWARE:  x.xx CHECKSUM:  xxxxxxxx S/N:  xxxxxxxxxxxx TCF:  NO DATE:  1970/01/01 TIME:  00:04:18 NON-RESET:  110      m (TPH) RESET:  110      m (TPH) NON-RESET:  0        (CUT) RESET:  0        (CUT) ----- </pre>	<p>Model name</p> <p>F/W version</p> <p>Firmware checksum</p> <p>Printer S/N</p> <p>TSC configuration file</p> <p>System date</p> <p>System time</p> <p>Printed mileage (meter)</p> <p>Cutting counter</p>

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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
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Print speed (inch/sec)  
 Print darkness  
 Label size (inch)  
 Gap distance (inch)  
 Gap/black mark sensor intension  
 Code page  
 Country code

```

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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
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```

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

**Note:**  
 ZPL is emulating for Zebra®  
 language.

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RS232 SETTING
-----
BAUD: 9600
PARITY: NONE
DATA BIT: 8
STOP BIT: 1
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RS232 serial port configuration

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-----
DRAM FILE (0 FILES)
-----
PHYSICAL XXXX KBYTES
AVAILABLE XXXX KBYTES
-----
FLASH FILE (0 FILES)
-----
PHYSICAL XXXX KBYTES
AVAILABLE XXXX KBYTES
-----

```

Numbers of download files  
 Total & available memory  
 space



Print head check pattern