

# BPE300/BPE330 THERMAL LABEL PRINTER USER MANUAL



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## Appendix

Product Specifications

Interface



## FCC COMPLIANCE STATEMENT FOR AMERICAN USERS

This equipment has been tested and found to comply with the limits for a CLASS A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at own expense.

## EMS AND EMI COMPLIANCE STATEMENT FOR EUROPEAN USERS

This equipment has been tested and passed with the requirements relating to electromagnetic compatibility based on the standards EN 55022:1998+A1:2000+A2:2003, CISPR 22, Class A EN 55024: 1998+A1: 2001+A2: 2003, IEC 61000-4 Series EN 61000-3-2/2000&EN 61000-3-3/1995. The equipment also tested and passed in accordance with the European Standard EN55022 for the both Radiated and Conducted emissions limits.

## BPE300 SERIES TO WHICH THIS DECLARATION RELATES IS IN CONFORMITY WITH THE FOLLOWING STANDARDS

EN55022: 1998, CISPR 22, Class A/EN55024: 1998/IEC 61000-4 Serial/EN61000-3-2: 2000/EN 6100-3-3: 1995/CFR 47, Part 15/CISPR 22 3rd Edition: 1997, Class A/ANSI C63.4: 2001/CNS 13438/IEC60950-1: 2005 (EN 60950-1: 2006+A11: 2009)/ GB4943: 2001/ GB9254: 1998/GB17625.1: 2003/EN60950-1: 2001



Caution: Equipment is intended for installation in Restricted Access Location. Only instructed persons and skilled persons should be allowed to install, replace, or service this equipment.



Hot parts!

Burned fingers when handling the parts

Wait one-half hour after switching off before handling parts

## Caution

- \* Danger of explosion if battery is incorrectly replaced. Replace only with the equivalent type recommended by the manufacturer.
- \*\* Dispose of used batteries according to the manufacturer's instructions.
- \*\*\* Only use with designated power supply adapter model.
- \*\*\*\* Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

# SAFETY INSTRUCTIONS

Please read the following instructions carefully.

1. Keep the equipment away from humidity.
2. Before you connect the equipment to the power outlet, please check the voltage of the power source.
3. Make sure the printer is off before plugging the power connector into the power jack.
4. It is recommended that you connect the printer to a surge protector to prevent possible transient overvoltage damage.
5. Be careful not to get liquid on the equipment to avoid electrical shock.
6. For safety and warranty reasons, ONLY qualified service personnel should open the equipment.
7. Do not repair or adjust energized equipment under any circumstances.

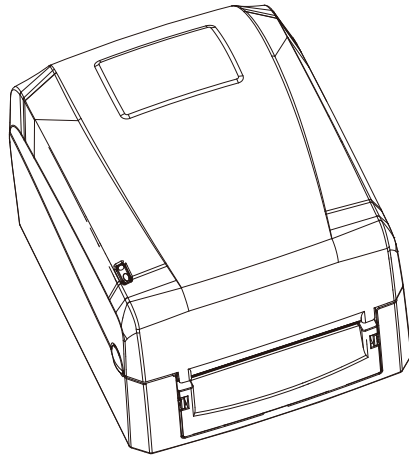
# 1 Barcode Printer

## 1.1 Box Content

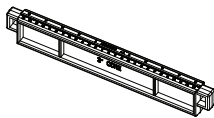
Please check that all of the following items are included with your printer.

- BPE300 Thermal Label Printer

\* Package content and Logo style may vary per region.



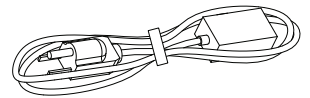
- Label Supply Module  
Label Supply Hub



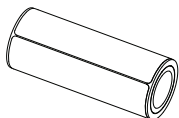
- Ribbon Module  
Empty Ribbon Core



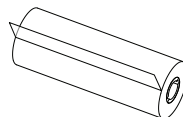
- Power Adapter  
Power Cord



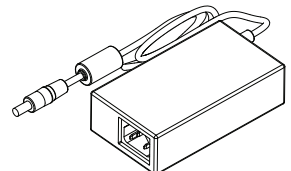
- Label Stock



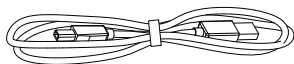
- Ribbon



- AC Adapter



- USB Cable



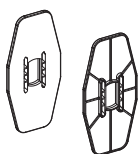
- CD  
Including QLabel software  
and G300 user manual.



- BPE300 Quick Guide



- Label Stopper Plate

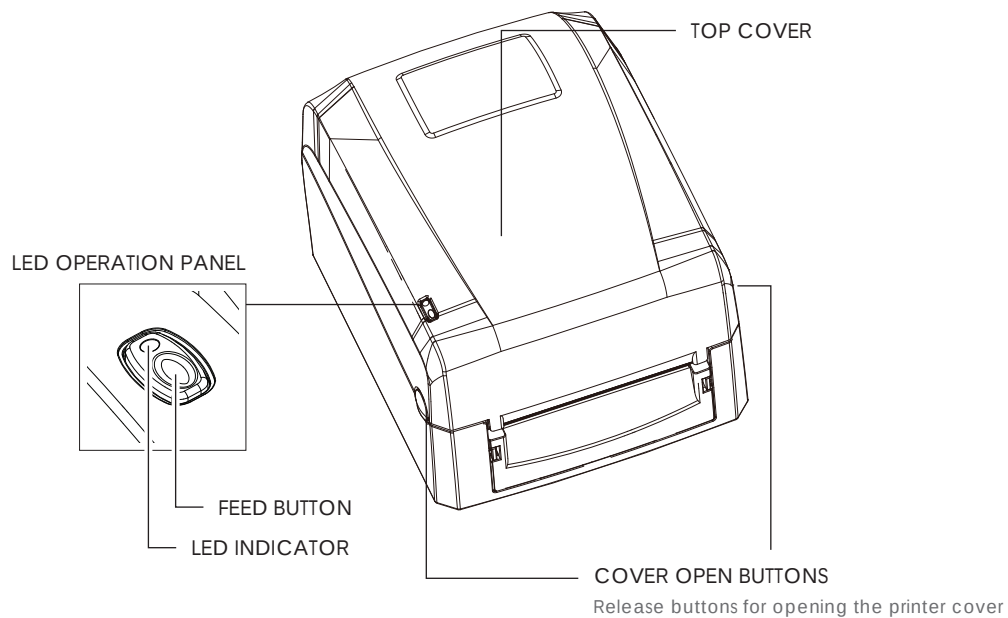


# 1 Barcode Printer

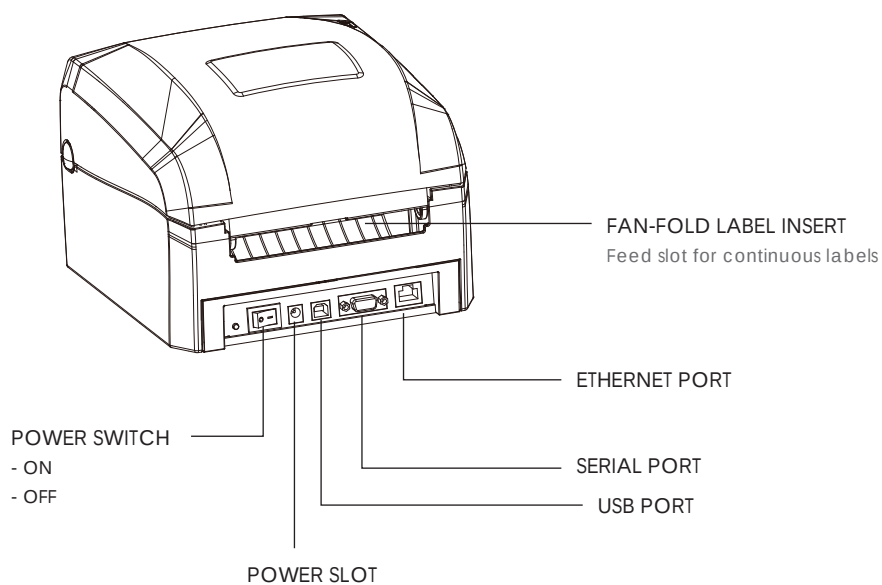
## 1.2 Getting To Know Your Printer

### Device Overview

- Front View

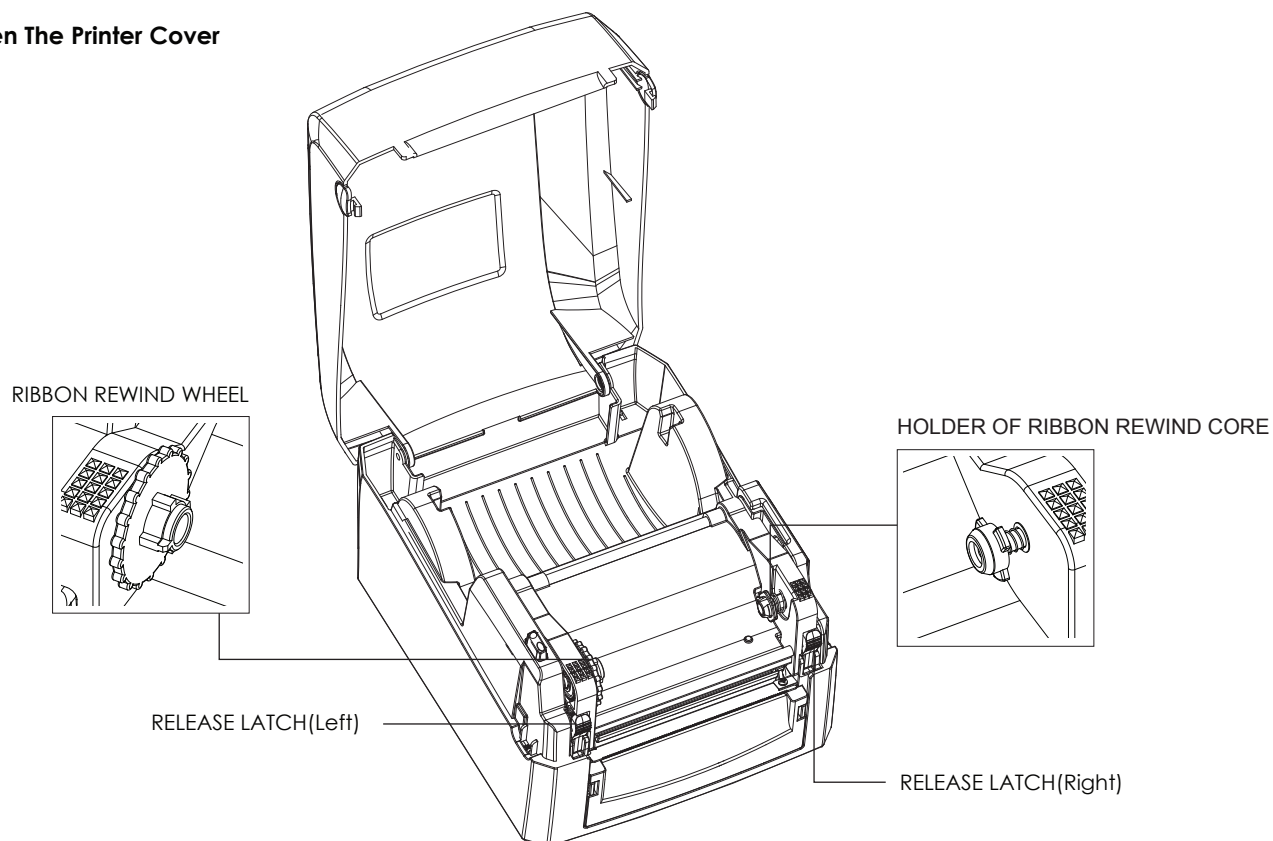


- Rear View

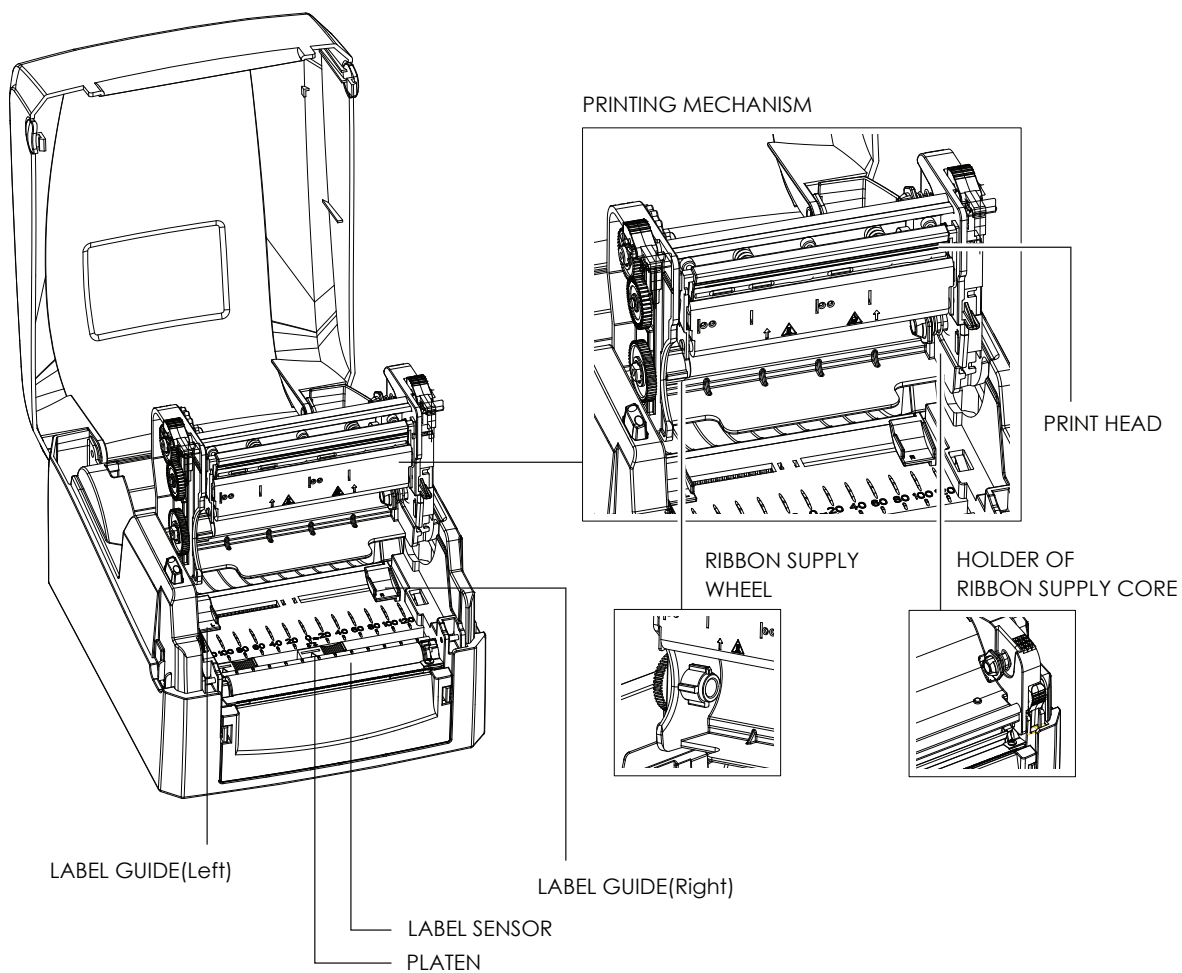


# 1 Barcode Printer

## Open The Printer Cover



## Open The Printing Mechanism

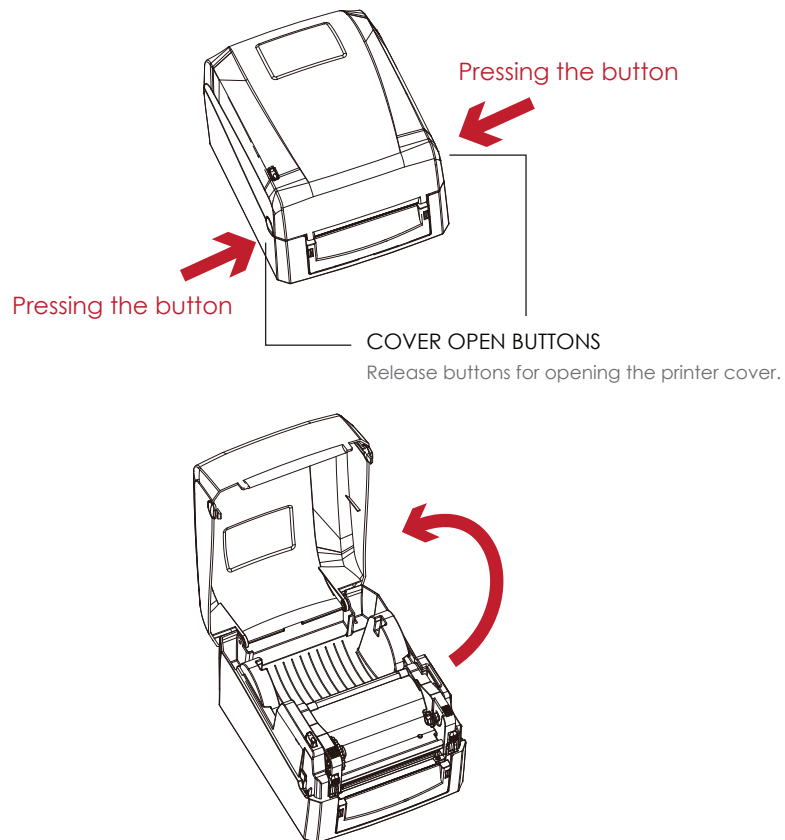


## 2 Printer Setup

### 2.1 Open The Printer Cover

#### Pressing The Cover Open Buttons

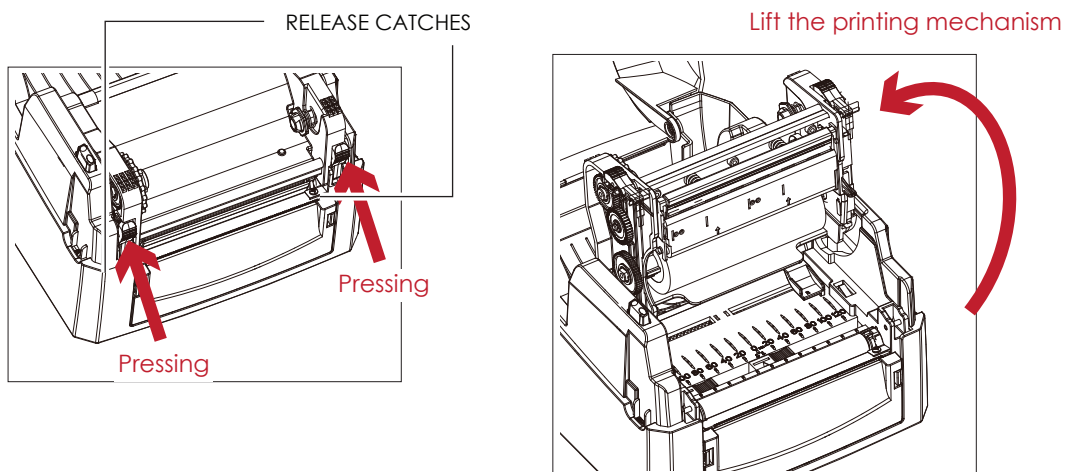
Place the printer on a flat surface. Open the printer cover by pressing the release buttons on both sides of the printer housing and lift the cover.



### 2.2 Open The Printing Mechanism

#### Pressing The Release Catches

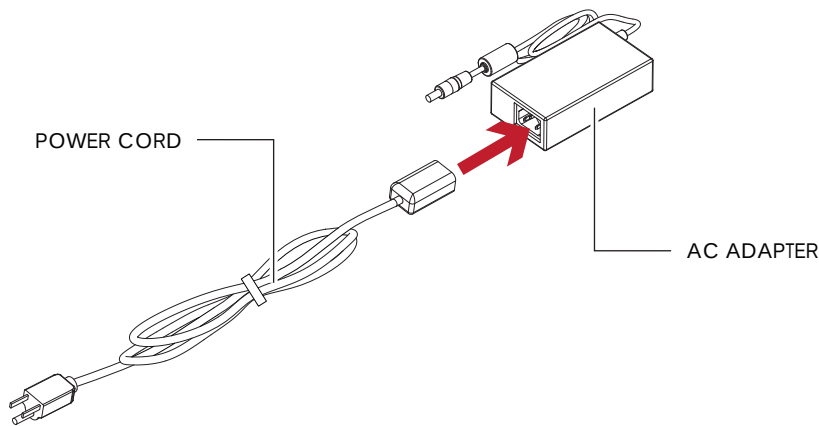
Release and lift the printing mechanism.



## 2 Printer Setup

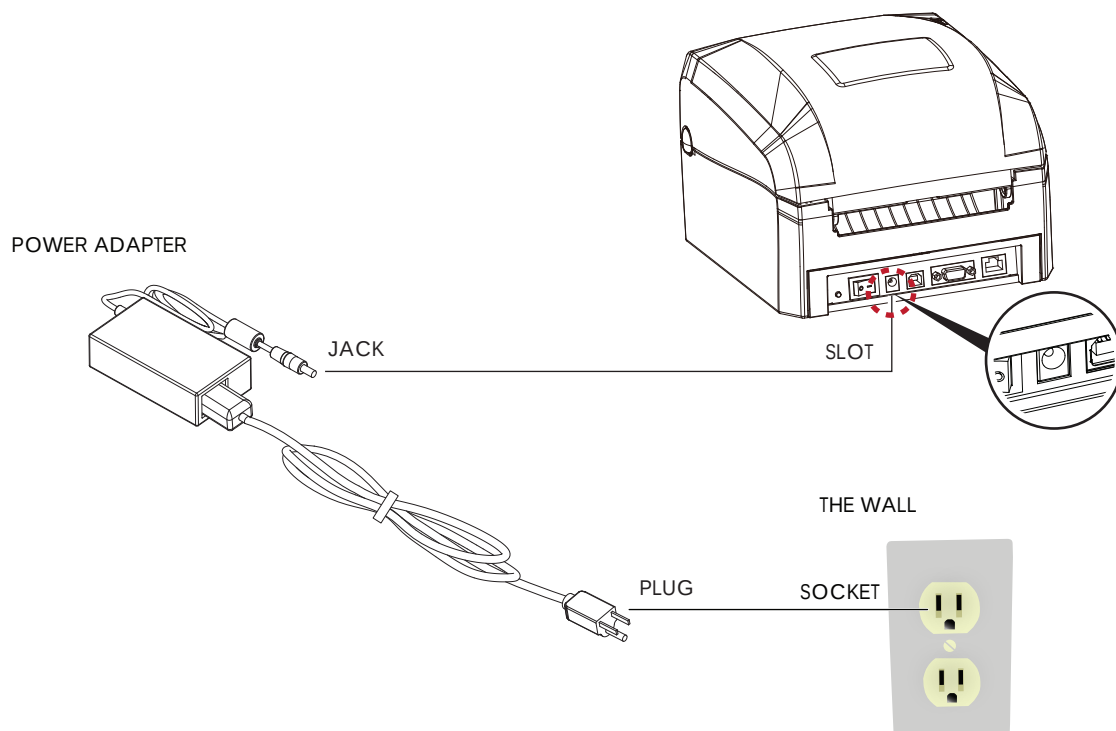
### 2.6 Connecting The Printer To The Host Computer

1. Please make sure that the printer is switched off.
2. Connect the power cord to the AC adapter.



Connect the jack of the power adapter to the printer and connect the plug of the power adapter to the socket of the wall.

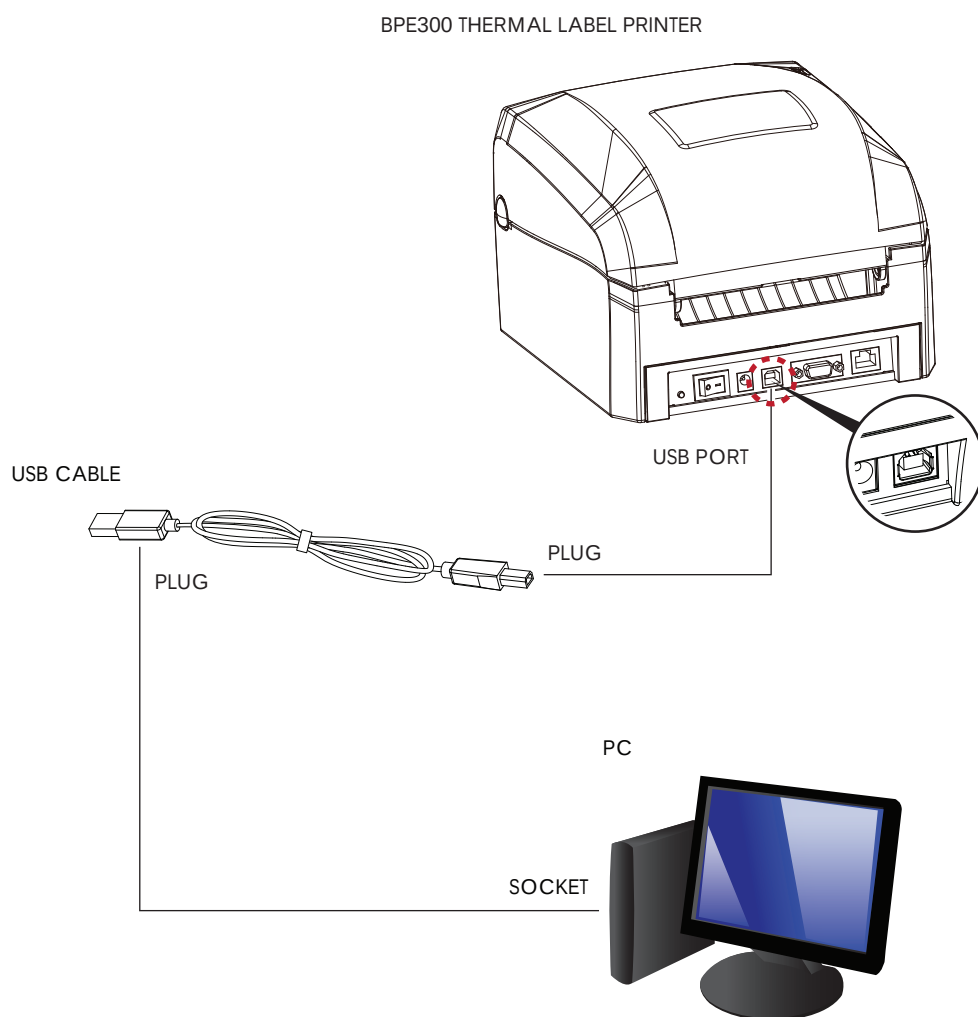
BPE300 THERMAL LABEL PRINTER



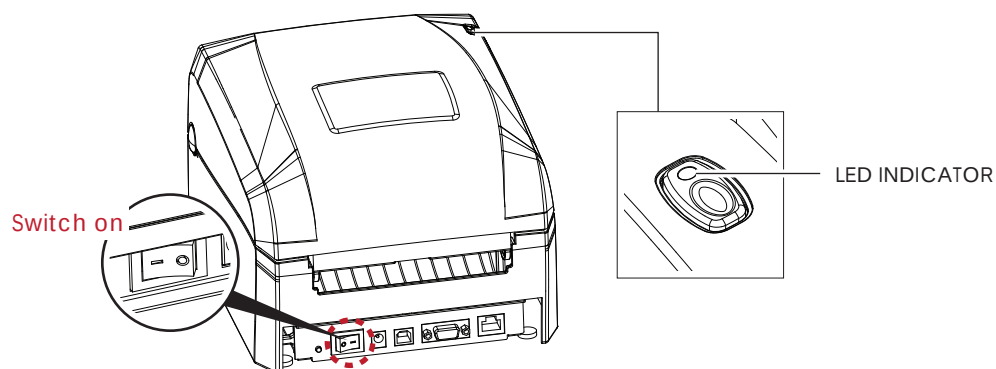
※This equipment must be earthed. The power plug must be connected to a properly wired earth ground socket outlet. An improperly wired socket outlet could place hazardous voltages on accessible metal parts.

## 2 Printer Setup

3. Connect the USB/parallel cable to the printer and host computer.



4. Switch on the printer. The LED indicator should now lights up.

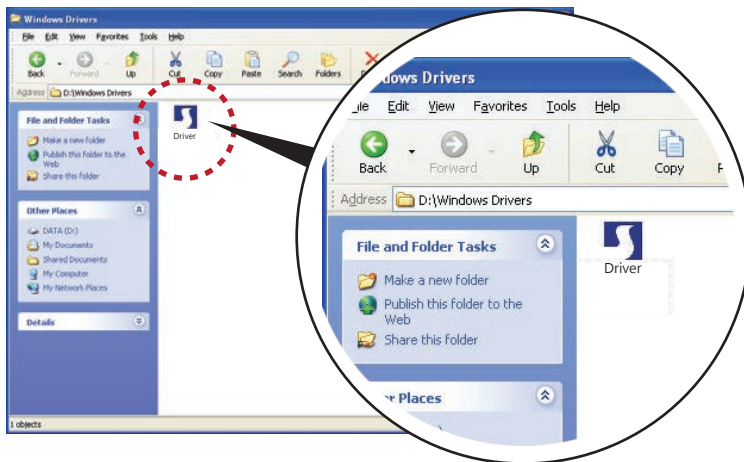




## 2 Printer Setup

### 2.7 Installing The Driver

1. Insert the product CD in the CD/DVD drive of the host computer and open the "Seagull Drivers" folder on the CD. Select the icon for the driver file and click it to start the installation.



2. Follow the instructions on the screen. The Driver Wizard guides you through the installation procedure. Select "Install printer drivers".

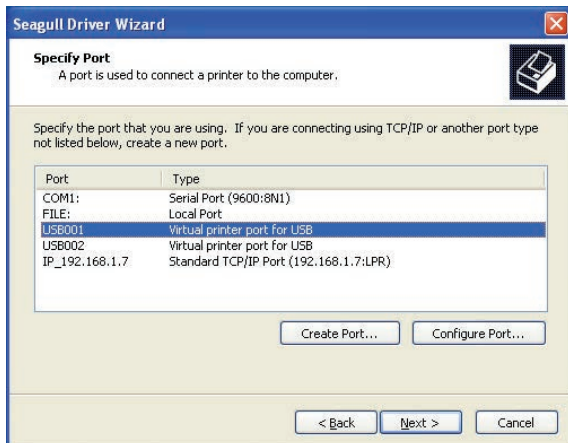


3. Specify your printer model.

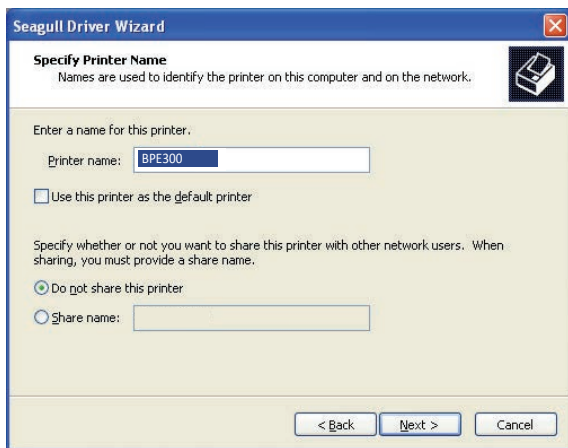


## 2 Printer Setup

- Specify the port used to connect the printer to the host computer.



- Enter a printer name and assign the appropriate rights.

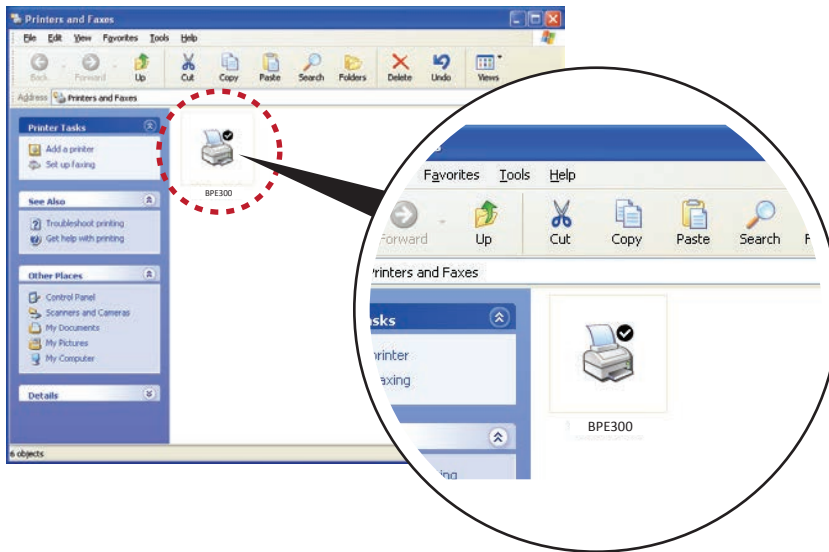


- Once the installation is complete, a summary of the printer settings is displayed. Check whether the printer settings are correct and click "Finish" to start copying the driver files. Wait until copying is complete, then finish the installation.



## 2 Printer Setup

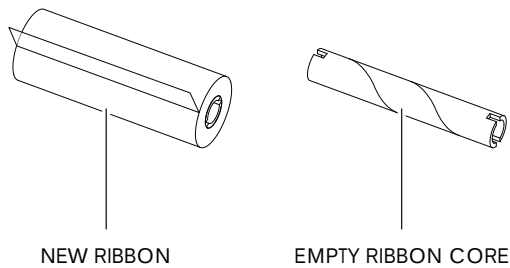
7. Once the driver installation is complete, the new printer should appear in the "Printers and Faxes" folder.



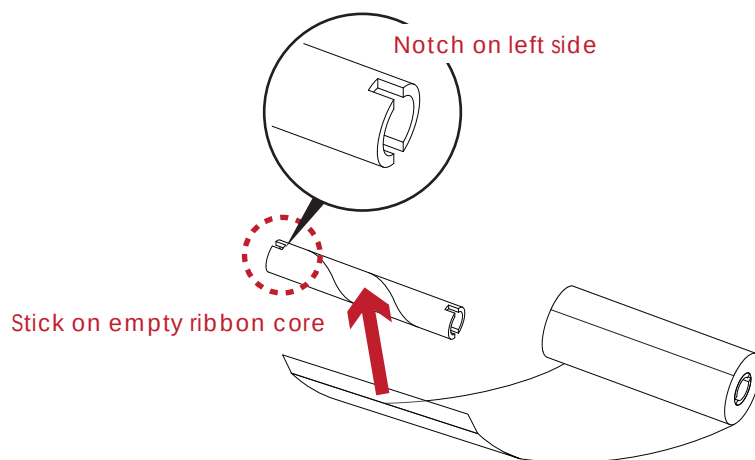
## 2 Printer Setup

### 2.3 Loading The Ribbon

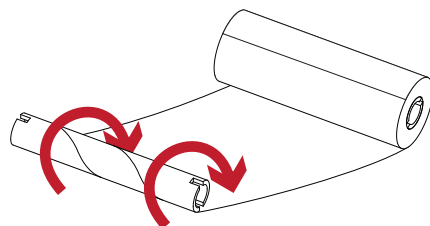
#### A New Ribbon Module Installation



1. Attach the ribbon to the empty ribbon core with the adhesive strip at the end of the ribbon.



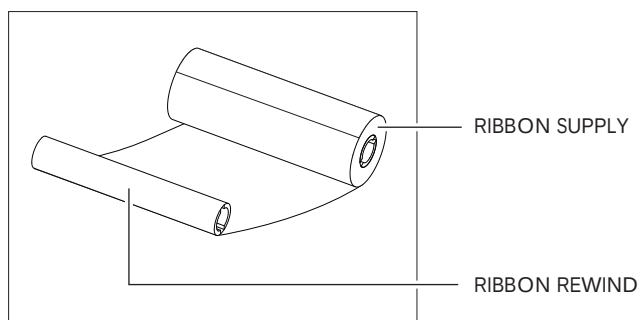
2. Wind the ribbon around the empty ribbon core for 2 to 3 circles.



Wind the ribbon around the core

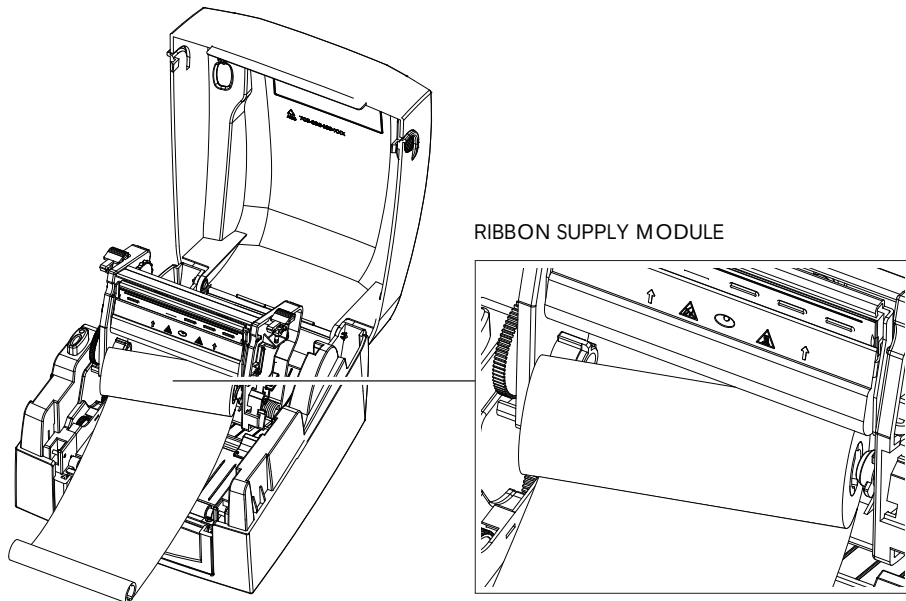
3. A ribbon module is assembled as below.

#### A NEW RIBBON MODULE

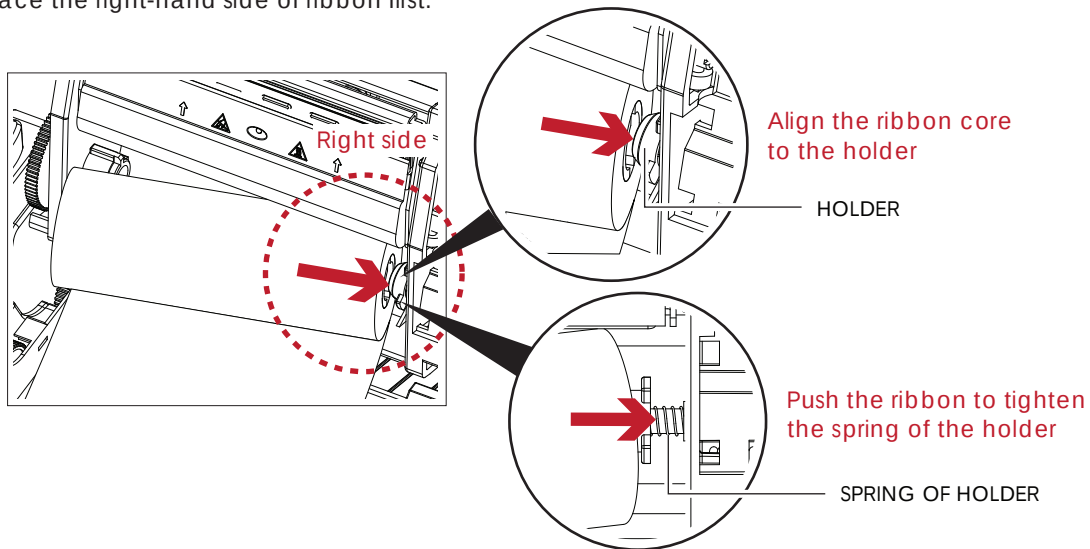


## 2 Printer Setup

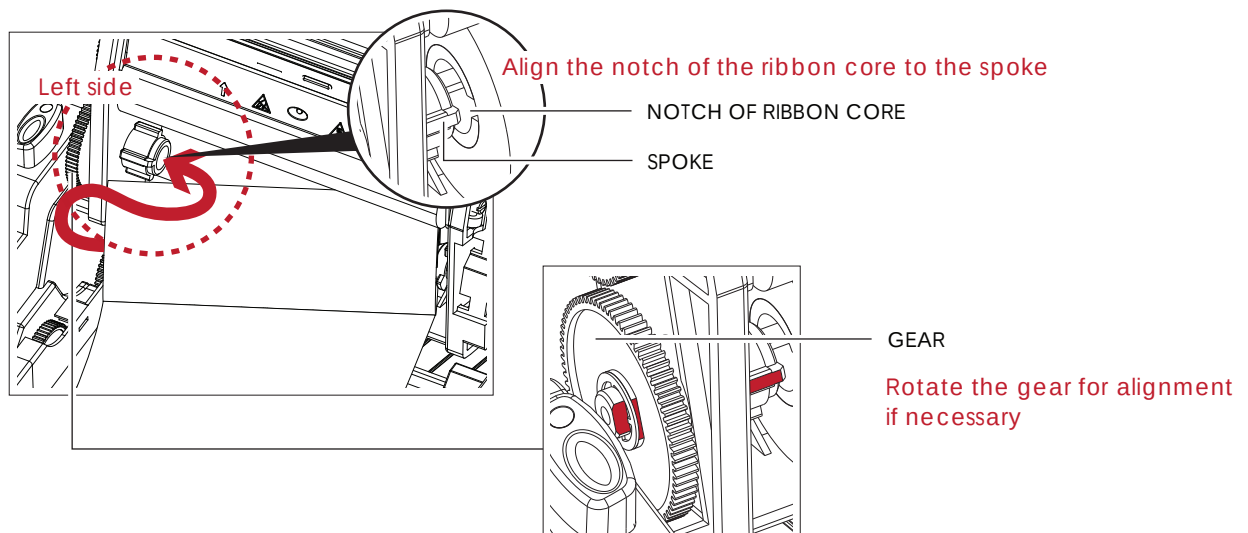
### Load The Ribbon On The Printer For Ribbon Supply Module



1. Place the right-hand side of ribbon first.

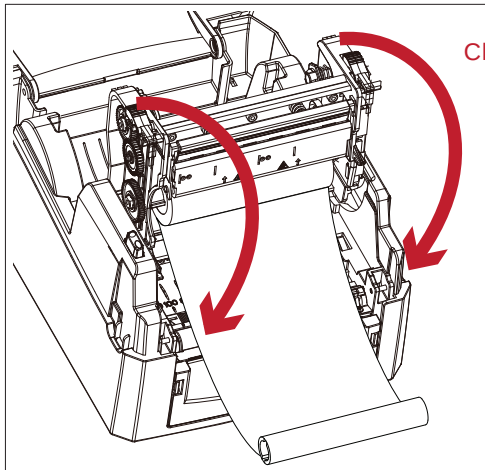


2. Then place the left-hand side of the ribbon.



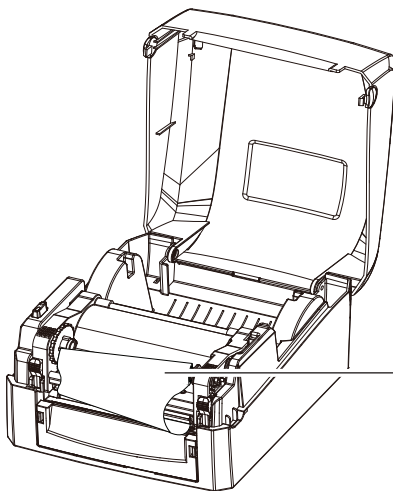
## 2 Printer Setup

3. Close the printing mechanism to complete the ribbon supply module loading.

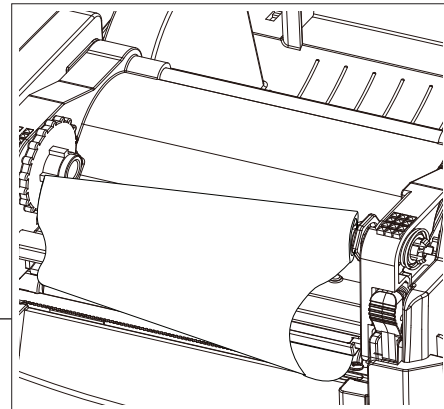


Close the printing mechanism

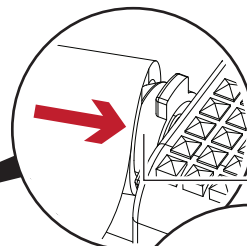
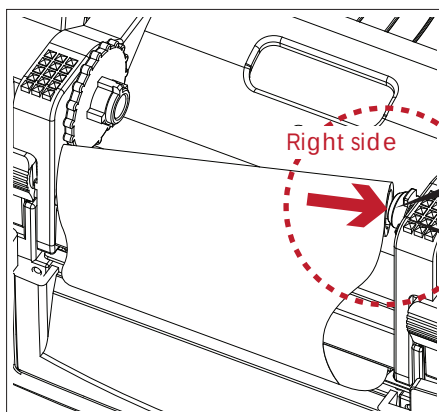
### Load The Ribbon On The Printer For Ribbon Rewind Module



RIBBON REWIND MODULE

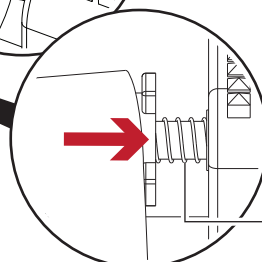


1. Place the right-hand side of empty ribbon core first.



Align the empty ribbon core to the holder

HOLDER

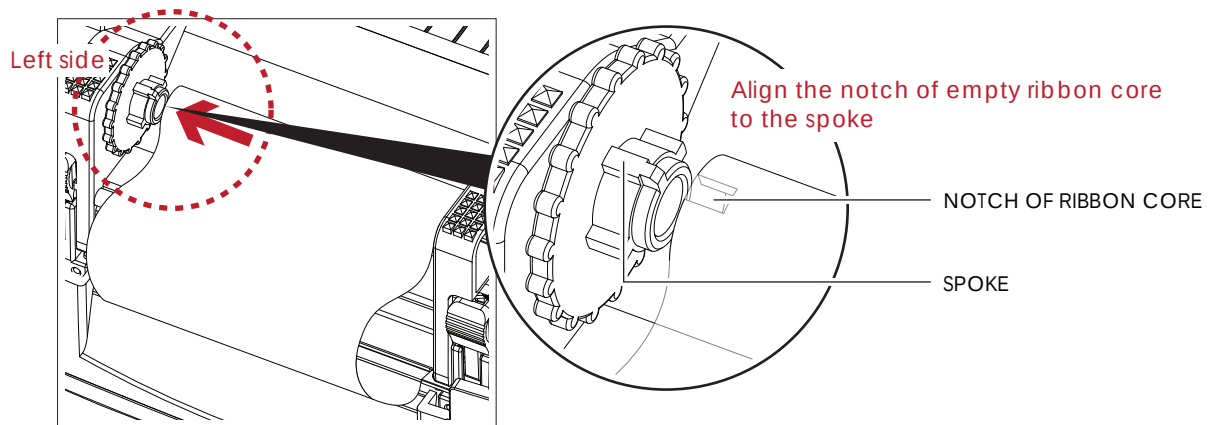


Push the empty ribbon core to tighten the spring of the holder

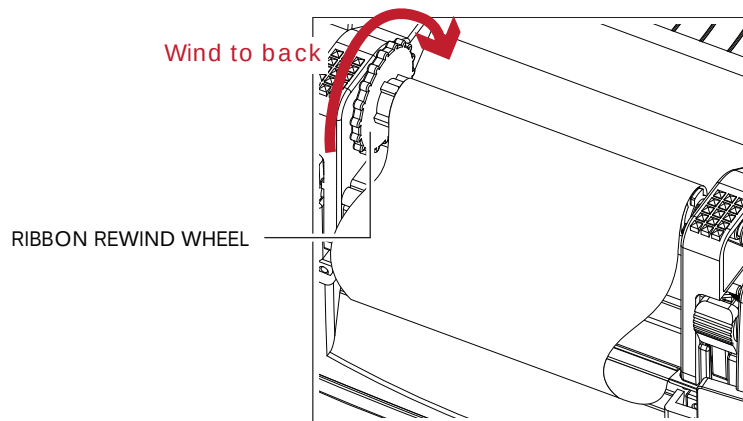
SPRING OF HOLDER

## 2 Printer Setup

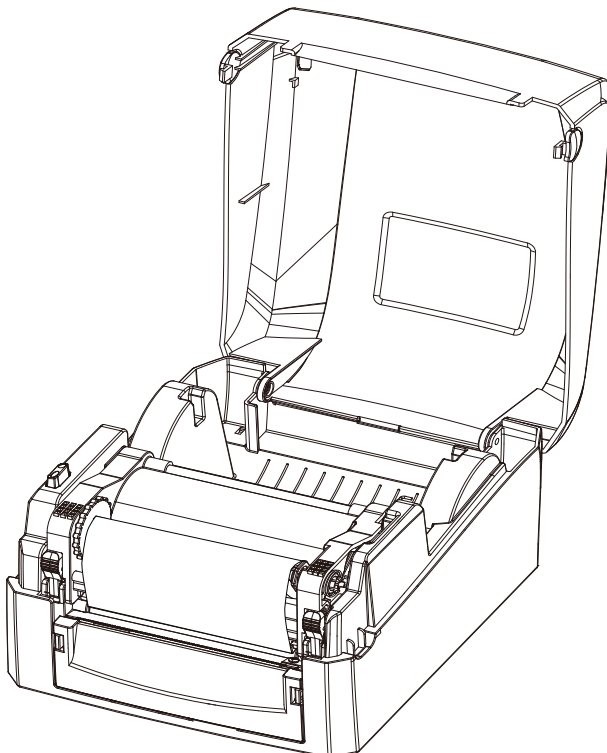
2. Then place the left-hand side of the empty ribbon core.



3. Turn the ribbon rewind wheel to tighten the ribbon until it has no wrinkles.



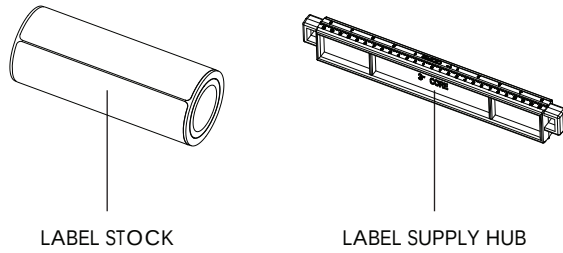
4. Ribbon loading completed.



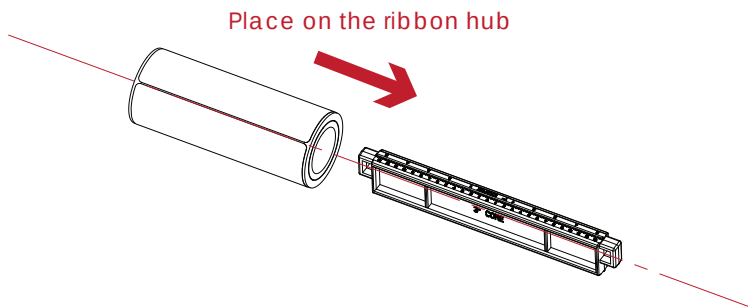
## 2 Printer Setup

### 2.4 Loading The Label Roll

#### A New Label Roll Module Installation

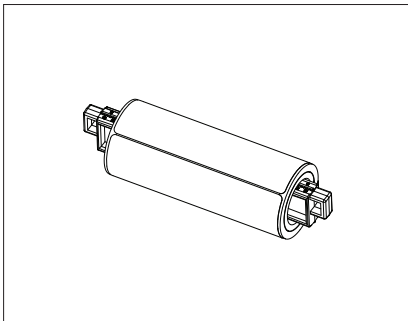


1. Place the label stock on the label supply hub, attach the label guide plates to the label stock holder.



2. A label roll module is assembled as below.

#### A NEW LABEL ROLL MODULE



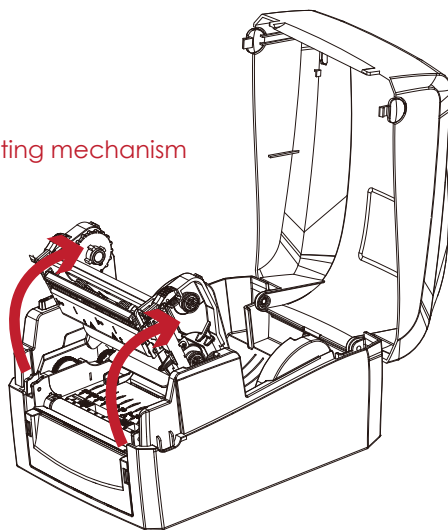


## 2 Printer Setup

### Load The Label Roll Module On The Printer

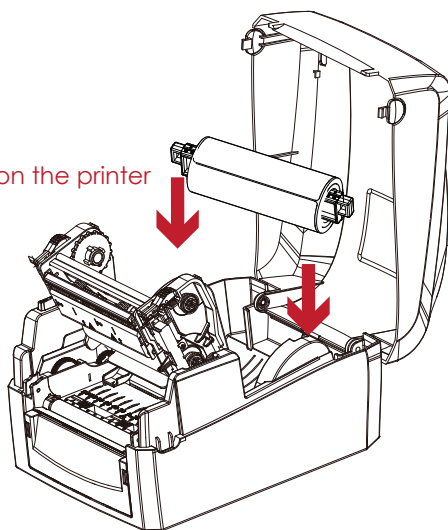
1. Release the printing mechanism and lift it.

Open the printing mechanism



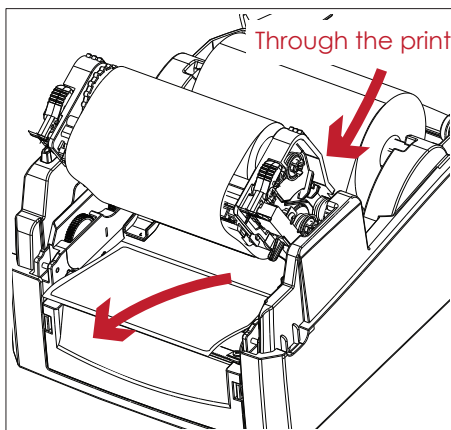
2. Place the label roll module on the printer.

Place on the printer



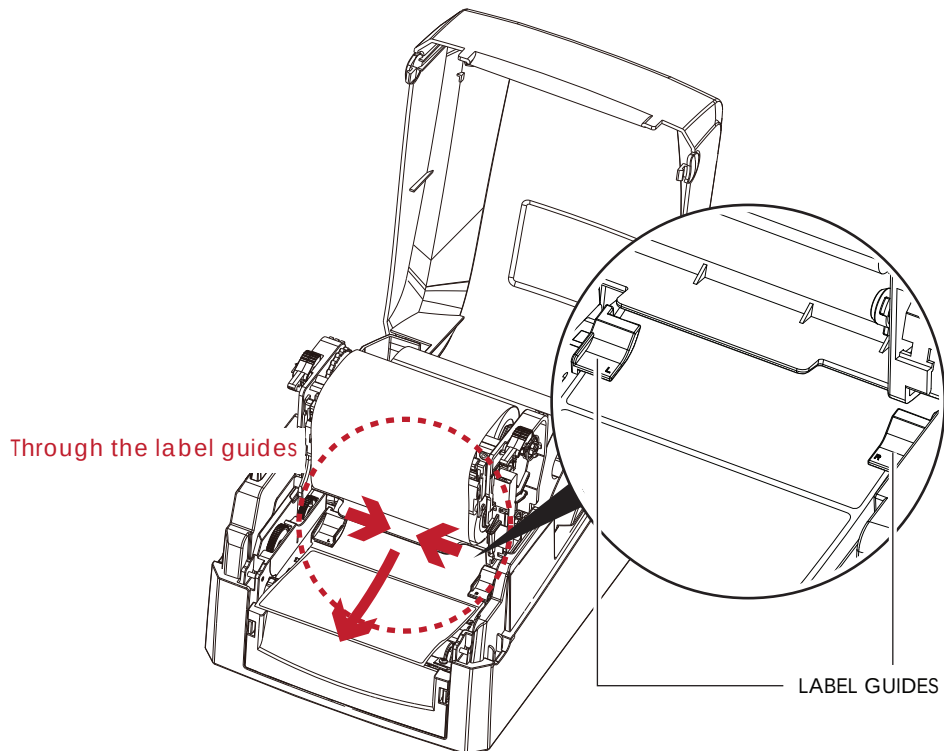
3. Pass the label through the printing mechanism.

Through the printing mechanism

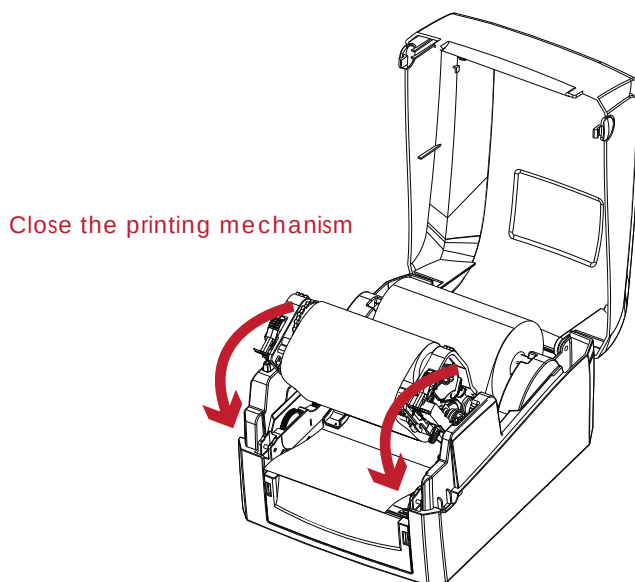


## 2 Printer Setup

4. Pass the label through the label guides and adjust the label guide to the label width. The label guide will help to prevent the label swaying.



5. Close the printing mechanism and top cover to complete the label loading.

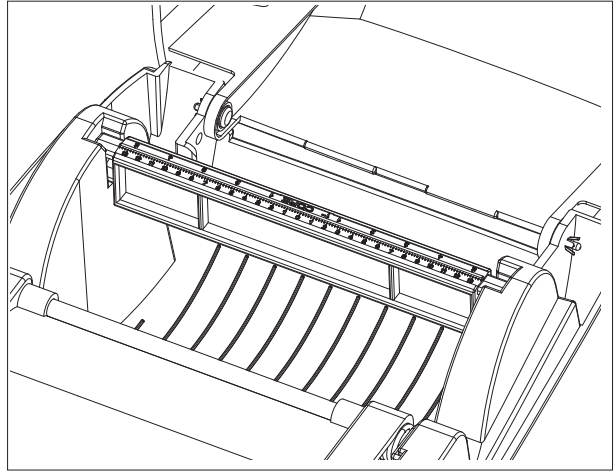
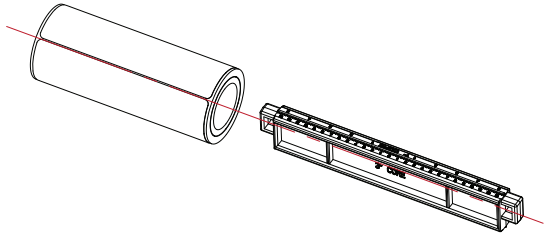


## 2 Printer Setup

### 2.5 Loading The Label Supply Hub

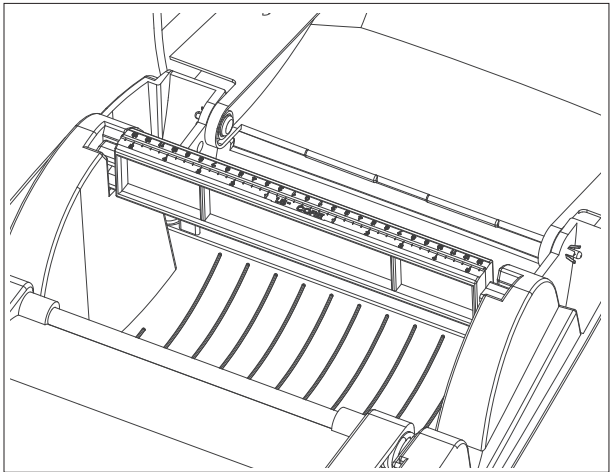
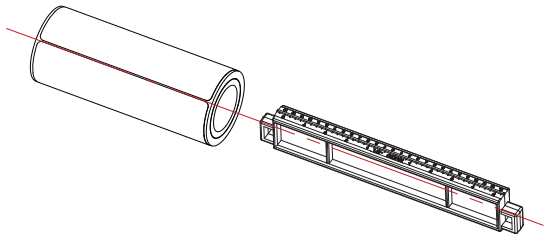
#### 1" Cores

Loading the label supply hub for 1" cores.



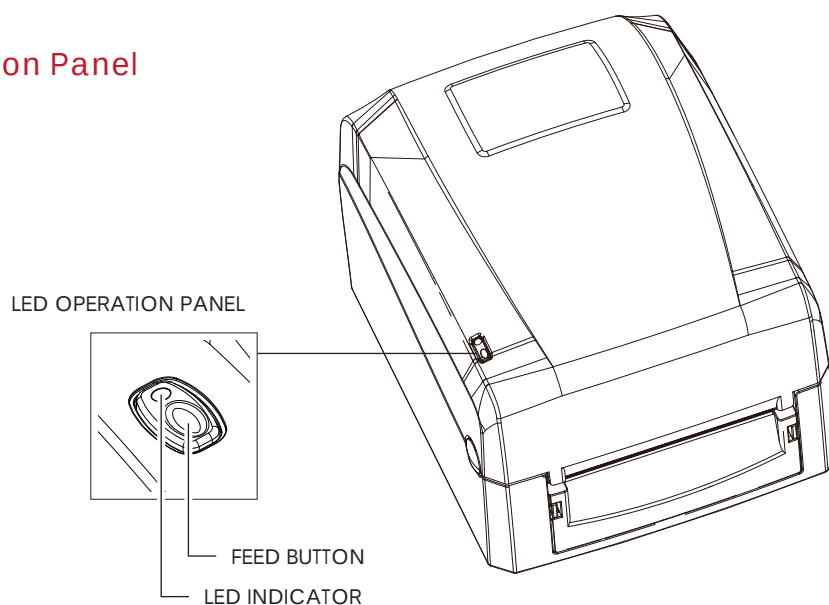
#### 1.5" Cores

Loading the label supply hub for 1.5" cores.



## 3 Operation Panel

### 3.1 LED Operation Panel



#### FEED Button

When you press the FEED button, the printer moves the label to the defined stop position.

If you are using continuous labels, pressing the FEED button will move label stock until you release the button again.

If you are using individual labels, pressing the FEED button will move only one label.

If the label does not stop at the correct position, you need to run the auto-detection function on the label stock, please see Section 3.3 Label Calibration and Self Test.

#### LED Indicators

| LED Indicator | Status  | Description                                                          |
|---------------|---------|----------------------------------------------------------------------|
| Green         | Standby | The printer is ready for operation.                                  |
| Red, Orange   | Error   | The printer has detected an error.<br>See Section 3-2. Error Alerts. |

## 3 Operation Panel

### 3.2 Error Alerts

In the event of a problem that prevents normal functioning of the printer, you will see an error message on LED indicators and hear some beep signals. Please refer to below table for the error alerts.

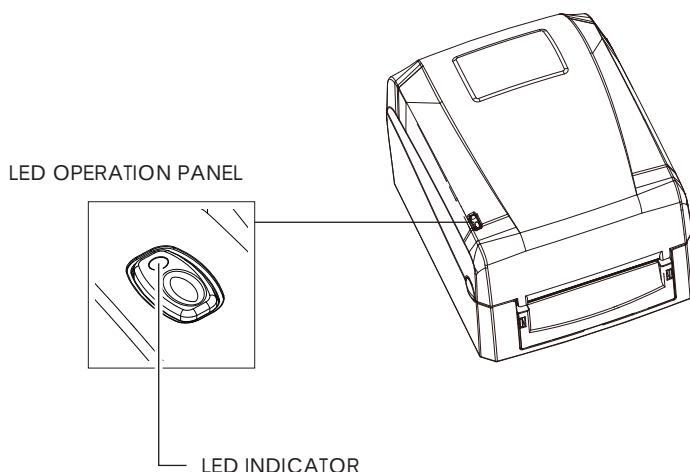
#### Error Light

Colour

- Red 
- Orange 

Flashing Frequency

- Fast Flashing 
- Slow Flashing 
- Light On 



| LED Indicator                                                                                                                                                             | Status           | Description                                                                           | Solution                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
|  →  | Media Error      | Unable to detect the paper.                                                           | Run the auto-detection function again.                                                                                                      |
|                                                                                                                                                                           |                  | The ribbon or labels are finished.                                                    | Replace the ribbon or label roll.                                                                                                           |
|  →  |                  | Paper jam.                                                                            | Possible reasons:<br>The paper feed roller is blocked.<br>No gap or black mark could be detected.                                           |
|  →  | Settings Error   | No ribbon is loaded, but thermal transfer mode is selected as printing mode.          | 1. To work in thermal transfer mode, load a ribbon.<br>2. Alternatively, select the direct thermal printing mode.                           |
|                                                                                        | Memory Error     | The memory is full. The printer also prints the message "Memory full".                | Delete data you no longer need from the printer memory.                                                                                     |
|                                                                                                                                                                           |                  | Unable to find file. The printer also prints the message "Filename cannot be found".  | Use the "~X4" command to print a list of all existing file names. Check whether the file name is correct.                                   |
|                                                                                                                                                                           |                  | File name already exists. The printer also prints the message "Filename is repeated". | Change the name of the file and try storing it on the printer again.                                                                        |
|                                                                                        | Print Head Error | The print head temperature is too high.                                               | Wait for the print head to cool down to operating temperature. The printer will then switch to standby mode and the LED will stop flashing. |

## 3 Operation Panel

### 3.3 Label Calibration and Self Test

#### Label Calibration

The printer can automatically detect and store label height.

That means the host computer does not need to transmit the label height to the printer.

#### Self Test

Self-test function lets you check whether the printer is functioning normally.

Here is how you run the label size calibration and self test.

1. Check that the label stock is loaded correctly.
2. Switch off the printer.
3. Switch the printer on again, keeping the FEED button pressed. When the LED starts to flash red, release the FEED button. The printer will now measure the label stock and store the label height.
4. Once the printer has successfully measured the label stock, it will print a self-test label.

The contents of a self-test printout are listed below.

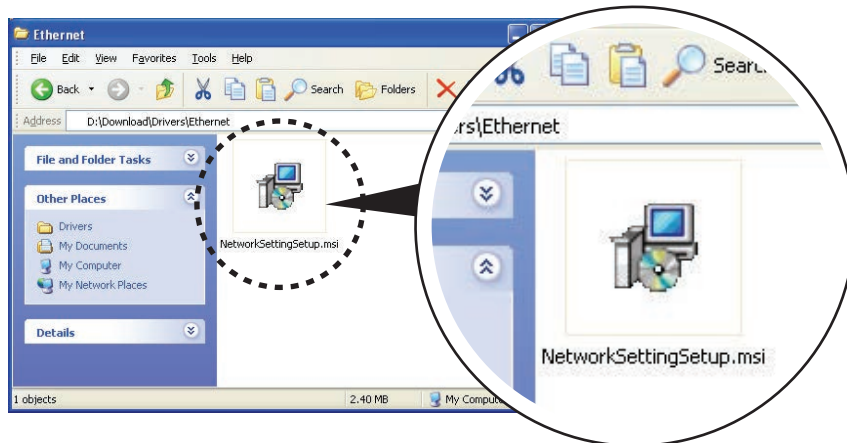
|                                             |                                       |
|---------------------------------------------|---------------------------------------|
| Model & Version                             | BPE300:GX.XXX                         |
| USB ID setting                              | USB S/N:12345678                      |
| Serial port setting                         | Serial port:96,N,8,1                  |
| MAC address of Ethernet port                | MAC Addr:xx-xx-xx-xx-xx-xx            |
| IP protocol setting                         | DHCP Enable                           |
| IP address of Ethernet port                 | IP xxx.xxx.xxx.xxx                    |
| Gateway setting                             | Gateway xxx.xxx.xxx.xxx               |
| Netmask setting                             | Sub-Mask xxx.xxx.xxx.xxx              |
|                                             | #####                                 |
| Number of DRAM installed                    | 1 DRAM installed                      |
| Image buffer size                           | Image buffer size:1500 KB             |
| Number of forms                             | 0000 FORM(S) IN MEMORY                |
| Number of graphics                          | 0000 GRAPHIC(S) IN MEMORY             |
| Number of fonts                             | 000 FONT(S) IN MEMORY                 |
| Number of Asian fonts                       | 000 ASIAN FONT(S) IN MEMORY           |
| Number of Databases                         | 000 DATABASE(S) IN MEMORY             |
| Number of Scalable fonts                    | 000 TTF(S) IN MEMORY                  |
| Free memory size                            | 4073 KB FREE MEMORY                   |
| Speed, Density, Ref. Point, Print direction | ^S4 ^H8 ^R000 ~R200                   |
| Label width, Form length, Stop position     | ^W102 ^Q100,3 ^E18                    |
| Cutter, Label Dispenser, Mode               | Option:^D0 ^O0 ^AD                    |
| Sensor Setting                              | Reflective AD:1.96 2.84 2.49[0.88_23] |
| Code Page                                   | Code Page:850                         |
| Printer is on factory default               | Default state=Yes                     |

## 4 NetSetting for Ethernet

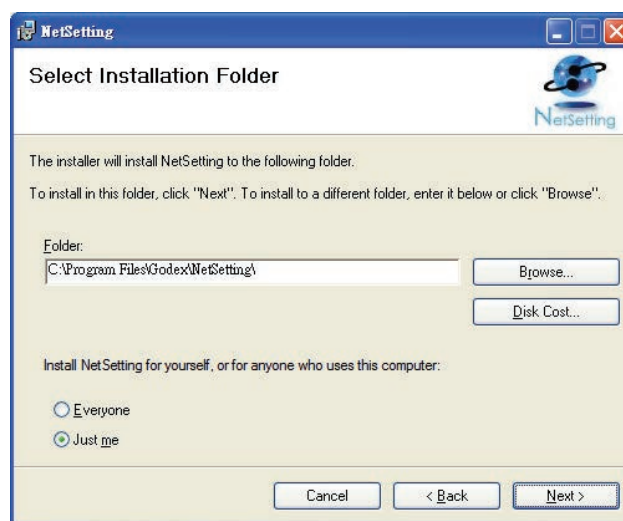
### 4.1 Installing The NetSetting software

The NetSetting software is used to manage the network configurations when connecting the printer via Ethernet port. It is available on product CD or can be downloaded from official website. To install the NetSetting, please follow below steps.

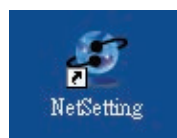
1. Insert the product CD in the CD/DVD drive of the host computer and open the "Ethernet" folder on the CD.
2. Select the icon for the NetSetting installation file and click it to start the installation.



3. Follow the instructions on the screen. The Setup Wizard guides you through the installation procedure.
4. Specify the "Installation Folder".



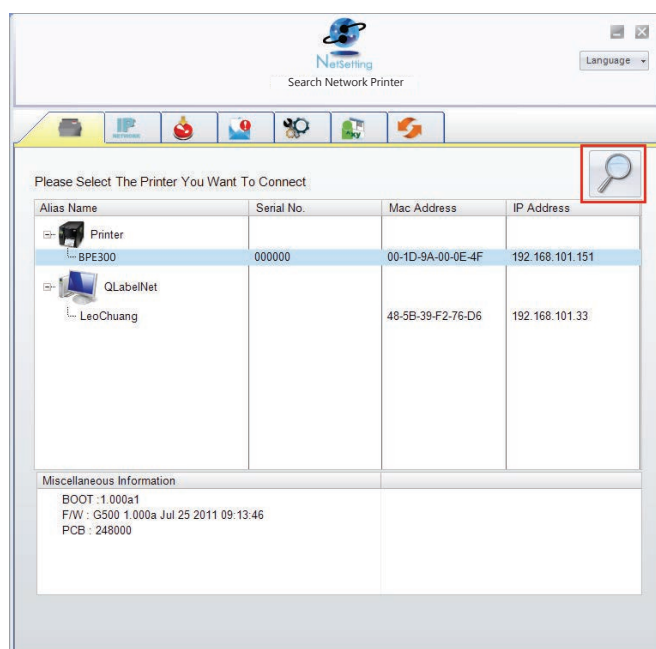
5. Click "Next" to start the installation.
6. Once the installation is completed; you will see the NetSetting icon on your desktop.



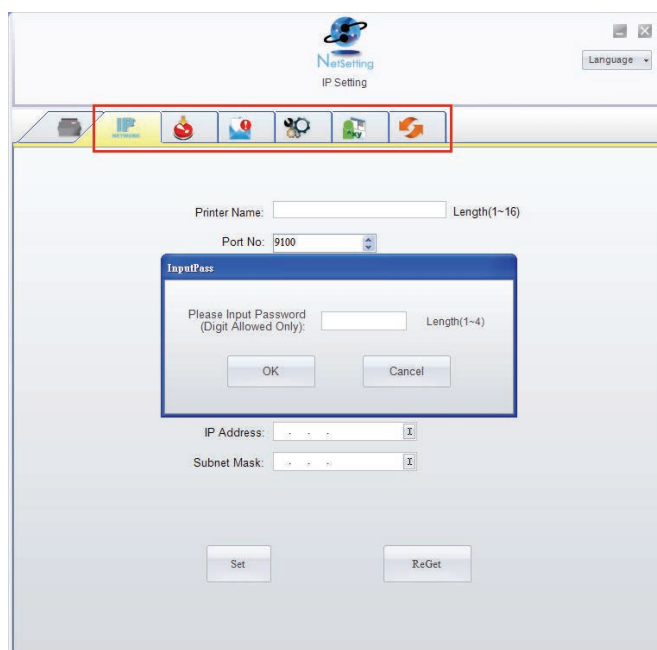
## 4 NetSetting for Ethernet

### 4.2 The Interface of NetSetting

Click the NetSetting icon to start the program; you will see the start page as below. The start page will display the basic information of connected printer and your PC.



Click the magnifier icon to search the printers which are connected via Ethernet port in you network environment. Once a connected printer is detected, it will be listed on the start page.



There are six tabs on the top of interface which can configure different types of network settings. But for the data security reason, you need correct password to enter the configuration pages.

### Notice

- \* The default password is "1111", you can change the password later from the "IP Setting" tab.



## 4 NetSetting for Ethernet

### IP Setting

The IP Setting tab can change the printer name, Port number, Gateway setting and the password for configuring the printer. You can also set the printer's IP address either by DHCP or by Static IP.

NetSetting  
IP Setting

Printer Name: BPE300 Length(1~16)

Port No: 9100

Default Gateway: 192 . 168 . 0 . 254

Password: 0000 Length(1~4)

☒ Get IP From DHCP Server

☐ Static IP

IP Address: 192 . 168 . 101 . 151

Subnet Mask: 255 . 255 . 255 . 0

Set ReGet

You can press “Set” button to apply the settings and “ReGet” button to refresh the setting values.

### Notice

- \* To fully benefit from the NetSetting software, you should be familiar with basic networking principles. Please contact your network administrator for related network setting information.
- \* When enabling DHCP, if you find the IP Address as: IP = 169.254.229.88, Netmask = 255.255.0.0, Gateway = invariable (last value), the IP Address is invalid.

## 4 NetSetting for Ethernet

### Alert Path Setting

NetSetting will send the alert messages to designated mail account when the error happened on printer. The alert messages are sent by SMTP (Simple Mail Transfer Protocol) or SNMP (Simple Network Management Protocol). You can set or change the configurations of SMTP and SNMP on this “Alert Path Setting” tab.

NetSetting  
Alert Path Setting

Language ▾

SMTP Notification Enable ☒

Login Account:  Length(1~64)

Login Password:  Length(1~16)

Server IP Address:   xxx.xxx.xxx.xxx

Mail Subject:  Length(1~60)

Mail From Address:  Length(1~32)

Mail To Address:  Length(1~32)

Duration Cycle:  0 ~ 168 Hours

Event Counter:  1 ~ 100

SNMP Notification Enable ☒

SNMP Community:  Length(1~16)

SNMP Trap Community:  Length(1~16)

Trap IP Address:   xxx.xxx.xxx.xxx

You can press “Set” button to apply the settings and “ReGet” button to refresh the setting values.

## 4 NetSetting for Ethernet

### Alert Message Setting

For the alert message notification function, you can decide which error cases need to be sent out to the operator. Moreover, the alert messages can be set to be sent by SMTP, SNMP or both.

| SMTP                                | SNMP                                | Description    |
|-------------------------------------|-------------------------------------|----------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Paper Out      |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Missing Gap    |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Ribbon Out     |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Door Open      |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Rewinder Full  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Memory Full    |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Name Not Found |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Name Duplicate |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Syntax Unknown |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Cutter Jam     |

Set ReGet

You can press “Set” button to apply the settings and “ReGet” button to refresh the setting values.

## 4 NetSetting for Ethernet

### Printer Configuration

Set or change the configurations of connected printer. Most of key settings for the printer operation can be done by this setting page.

NetSetting  
Printer Configuration

Language

Printer Setup

| Printer Model | Resolution | Speed | Darkness | Stripper/Applicator | Labels per Cut | Printing Mode  |
|---------------|------------|-------|----------|---------------------|----------------|----------------|
| BPE300        | 203        | 4     | 10       | 0 (None)            | 0              | Thermal Transf |

PC Com Port Settings

Baud Rate: 9600

Parity: None

Data Bits: 8

Stop Bits: 1

Miscellaneous

LCD Language:

Keyboard Language:

Code Page: Code Page 850

Buzzer: ON

Sensing Mode: 2 - Automatic

Smart Backfeed: OFF

Top Of Form: ON

Set ReGet

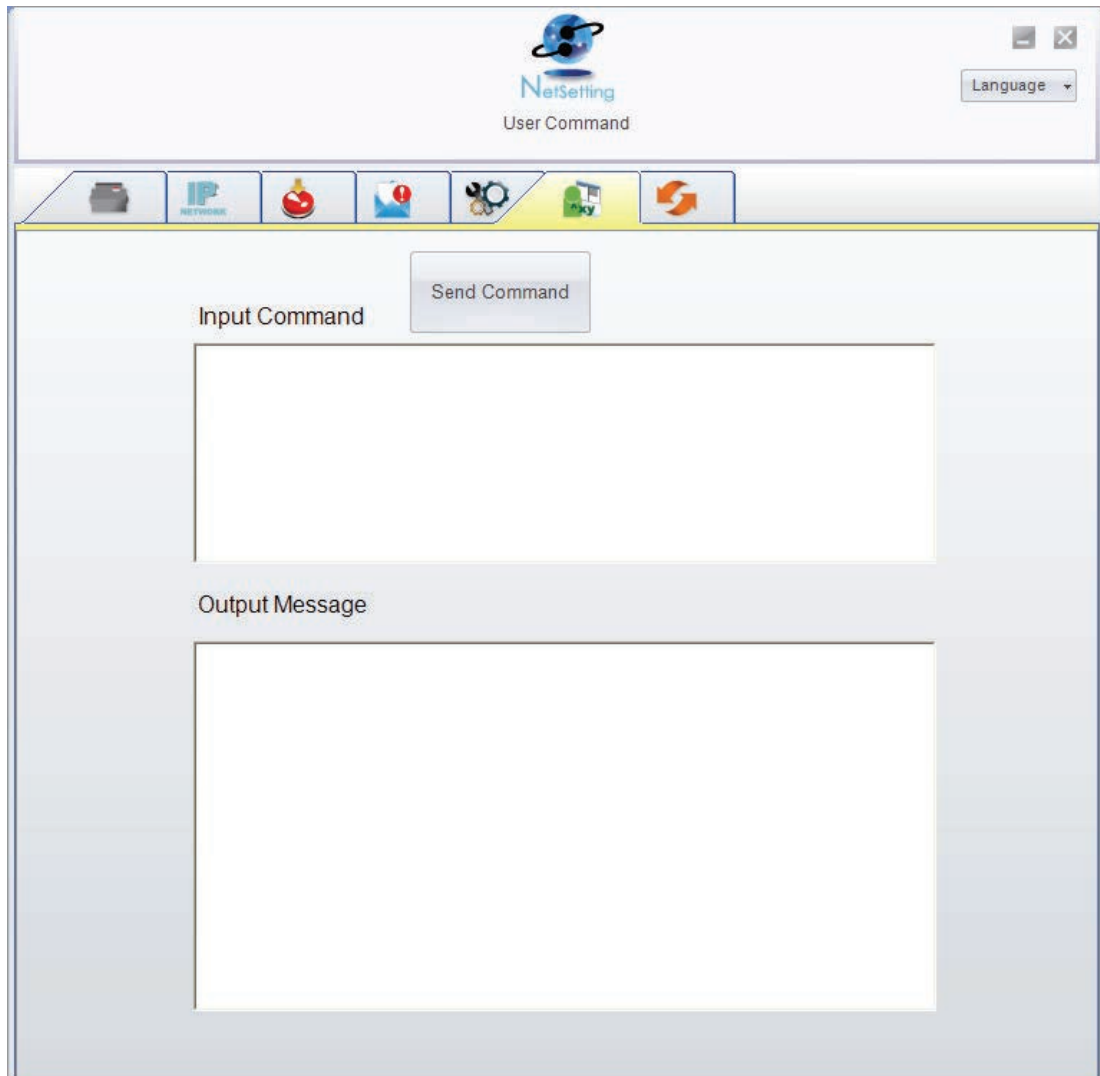
You can press “Set” button to apply the settings and “ReGet” button to refresh the setting values.

## 4 NetSetting for Ethernet

### User Command

The “User Command” tab provides a communication interface for operator to control the printer. Input printer commands in "Input Command" window and press “Send Command” button, the commands will be sent to the printer.

For some commands that will return response message, the message will be displayed in "Output Message" window.

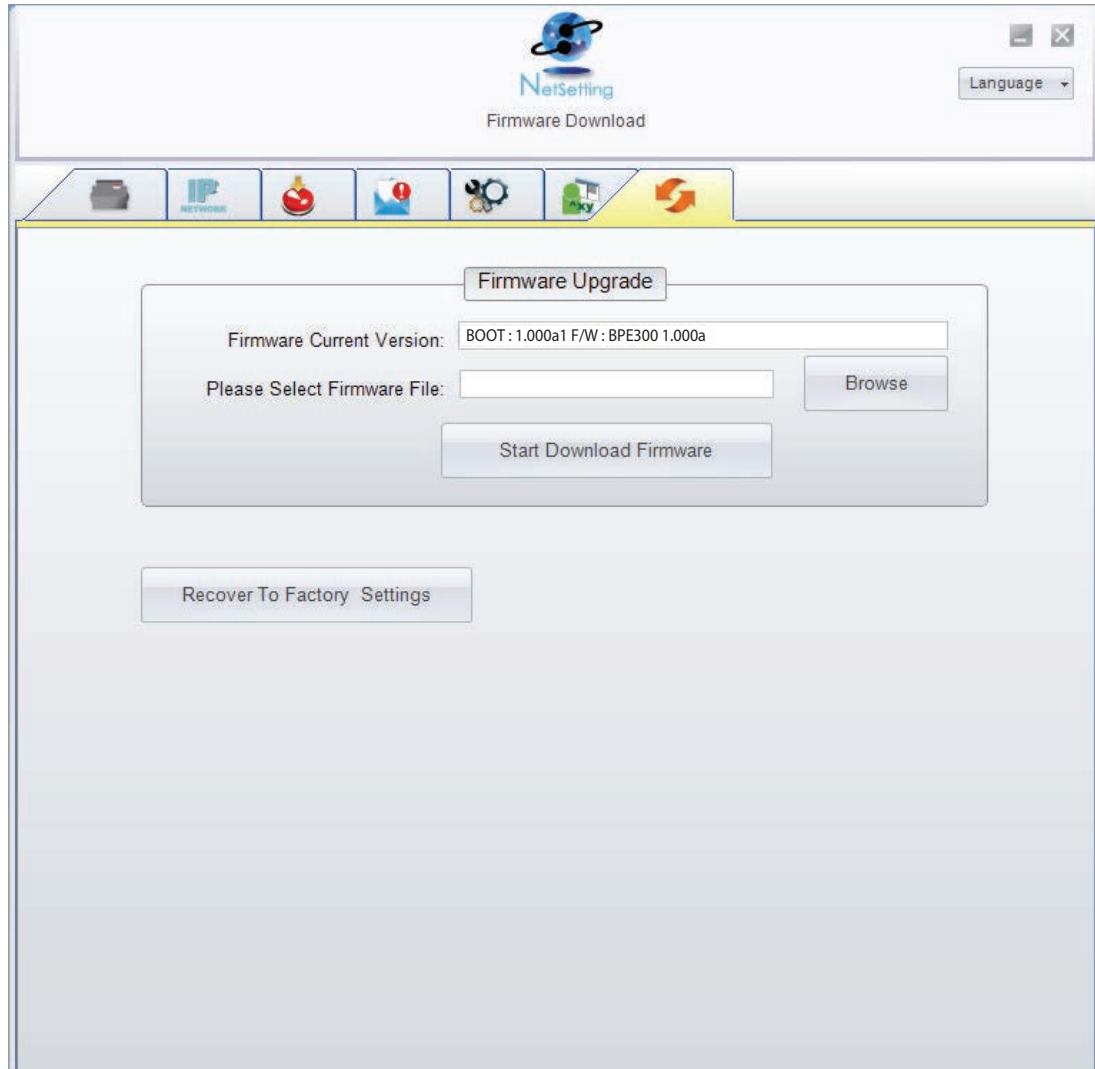


You can press “Send Command” button to send printer commands via Ethernet port and control the printer remotely.

## 4 NetSetting for Ethernet

### Firmware Download

On “Firmware Download” tab, the current version of printer firmware will be showed on the screen. If you need to update the printer firmware, just specify the file location of firmware file and press “Start Download Firmware” button. The printer firmware then can be updated remotely.



In addition to the firmware update, you can press “Recover To Factory Settings” button to restore the printer configurations back to factory default.

# 5 Maintenance And Adjustment

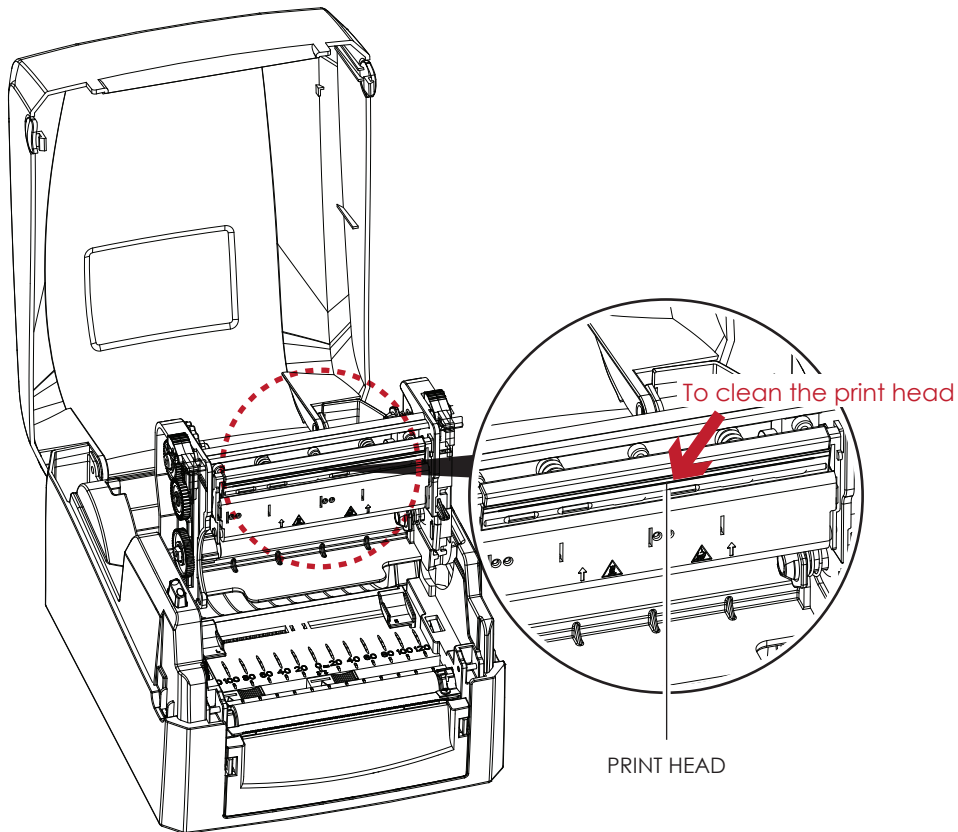
## 5.1 Cleaning The Print Head

Dirt on the print head or ribbon, or glue residue from the label stock may result in inadequate print quality. The printer cover must therefore always be closed during printing. Keeping dirt and dust away from the paper or labels ensures a good print quality and a longer lifespan of the print head.

### Cleaning Steps

Here is how you clean the print head.

1. Switch off the printer.
2. Open the printer cover.
3. Release the printing mechanism and lift it.
4. Remove the ribbon.
5. To remove any label residue or other dirt from the print head (see red arrow), please use a soft lint-free cloth dipped in alcohol.



### Notice

- \* The print head should be cleaned once a week.
- \* Please make sure that there are no metal fragments or other hard particles on the soft cloth used to clean the print head.

# 5 Maintenance And Adjustment

## 5.2 Troubleshooting

| Problem                                                                 | Solution                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The printer is switched on but the LED does not light up.               | <ul style="list-style-type: none"><li>◆ Check the power supply.<br/>Please see the Section 2.6</li></ul>                                                                                                                                                                                                  |
| The LED lights up red and printing is interrupted.                      | <ul style="list-style-type: none"><li>◆ Check the software settings (driver settings) or command codes.</li><li>◆ Look for the error alert in the table in Section 3.2. Error Alerts.</li><li>◆ Check whether the print mechanism is closed correctly.<br/>Please see the Section 3.2</li></ul>           |
| The label stock passes through the printer but no image is printed.     | <ul style="list-style-type: none"><li>◆ Please make sure that the label stock is loaded the right way up and that it is suitable material.</li><li>◆ Choose the correct printer driver.</li><li>◆ Choose the correct label stock and a suitable printing mode.</li></ul>                                  |
| The label stock jams during printing.                                   | <ul style="list-style-type: none"><li>◆ Clear the paper jam. Remove any label material left on the thermal print head and clean the print head using a soft lint-free cloth dipped in alcohol.<br/>Please see the Section 5.1</li></ul>                                                                   |
| There is no printed image on some parts of the label.                   | <ul style="list-style-type: none"><li>◆ Check whether any label material or ribbon is stuck to the thermal print head.</li><li>◆ Check for errors in the application software.</li><li>◆ Check whether the starting position has been set incorrectly.</li><li>◆ Check the ribbon for wrinkles.</li></ul> |
| There is no printed image on part of the label or the image is blurred. | <ul style="list-style-type: none"><li>◆ Check the thermal print head for dust or other dirt.</li><li>◆ Use the internal “~T” command to check whether the thermal print head will carry out a complete print job.</li><li>◆ Check the quality of the print medium.</li></ul>                              |
| The printed image is positioned incorrectly.                            | <ul style="list-style-type: none"><li>◆ Check whether there is paper or dust covering the sensor.</li><li>◆ Check whether the label stock is suitable. Contact your supplier.</li><li>◆ Check the paper guide settings.</li></ul>                                                                         |
| A label is missed out during printing.                                  | <ul style="list-style-type: none"><li>◆ Check the label height setting.</li><li>◆ Check whether there is dust covering the sensor.</li><li>◆ Run the auto-detection function.<br/>Please see the Section 3.3</li></ul>                                                                                    |
| The printed image is blurred.                                           | <ul style="list-style-type: none"><li>◆ Check the darkness setting.</li><li>◆ Check the thermal print head for dust or dirt.<br/>Please see the Section 5.1</li><li>◆ Check if the ribbon is suitable for label stock.</li></ul>                                                                          |

### Notice

\* If any problems occur that are not described here, please contact your dealer.



# APPENDIX

## PRODUCT SPENIFICATIONS

| Model            |                       | BPE300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BPE330                              |
|------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Print Method     |                       | Thermal Transfer/Direct Thermal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
| Resolution       |                       | 203dpi(8dots/mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 300dpi(12dots/mm)                   |
| Print Speed      |                       | 5 IPS (102mm/s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3IPS(76.2 mm/s)                     |
| Print Width      |                       | 4.25"(108mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4.16"(105.7mm)                      |
| Print Length     |                       | Min. 0.16"(4mm)**; Max. 68"(1727mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Min. 0.16"(4 mm)**; Max. 30"(762mm) |
| Memory           | Flash                 | 8MB Flash(4MB for user storage)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
|                  | SDRAM                 | 16MB SDRAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |
| Sensor Type      |                       | Fixed transmissive sensor<br>Adjustable reflective sensor (full range)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |
| Media            | Types                 | Continuous form, gap labels, black mark sensing, and punched hole; label length set by auto sensing or programming                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |
|                  | Width                 | 1"(25.4mm)Min.-4.64"(118mm)Max.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
|                  | Thickness             | 0.003" (0.08mm)Min.-0.008"(0.20mm)Max.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |
|                  | Label Roll Diameter   | Max. 5"(127mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |
|                  | Core Diameter         | 1", 1.5"(25.4mm, 38.1mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |
| Ribbon           | Types                 | Wax, wax/resin, resin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |
|                  | Length                | 360"(110m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |
|                  | Width                 | 1.18"Min-4.33"(30mm-110mm)Max                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
|                  | Ribbon Roll Diameter  | 1.57"(40mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |
|                  | Core Diameter         | 0.5"(12.7mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |
| Printer Language |                       | EZPL, GEPL, GZPL auto switch ,GDPL optional                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |
| Software         | Label Design Software | GoLabel (for EZPL only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |
|                  | Driver                | Vista, Windows 7, 8.1 and 10 , Windows Server 2012, 2016, MAC, Linux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |
|                  | DLL                   | Win CE, .NET, Android, Windows Mobile, Windows XP / VISTA / Windows 7 /<br>Windows 8.1 / Windows 10                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |
| Resident Fonts   | Bitmap Fonts          | 6, 8, 10, 12, 14, 18, 24, 30, 16X26 and OCR A&B<br>Bitmap fonts 0°, 90°, 180°, 270° rotatable, single characters 0°, 90°, 180°, 270° rotatable<br>Bitmap fonts 8 times expandable in horizontal and vertical directions                                                                                                                                                                                                                                                                                                                                        |                                     |
|                  | TTF Fonts             | TTF Fonts (Bold / Italic / Underline ). 0°,90°, 180°, 270° rotatable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |
| Download Fonts   | Bitmap Fonts          | 0°, 90°, 180°, 270° rotatable, single characters 0°, 90°, 180°, 270° rotatable<br>6x16, 24x24. Traditional Chinese (BIG-5), Simplified Chinese(GB2312), Japanese (S-JIS),<br>Korean (KS-X1001)                                                                                                                                                                                                                                                                                                                                                                 |                                     |
|                  | Asian Fonts           | 0°, 90°, 180°, 270° rotatable and 8 times expandable in horizontal and vertical directions                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |
|                  | TTF Fonts             | TTF Fonts (Bold / Italic / Underline ). 0°,90°, 180°, 270° rotatable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |
| Barcodes         | 1-D Bar codes         | China Postal Code, Codabar, Code 11, Code 32,Code 39, Code 93, Code 128 (subset A, B, C),<br>EAN-8, EAN-13, EAN 8/13 (with 2 & 5 digits extension), EAN 128, FIM, German Post Code,<br>GS1 DataBar, HIBC, Industrial 2 of 5 , Interleaved 2-of-5 (I 2 of 5), Interleaved 2- o-f 5 with<br>Shipping Bearer Bars, ISBT – 128, ITF 14, Japanese Postnet, Logmars, MSI, Postnet, Plessey,<br>Planet 11 & 13 digit, RPS 128, Random Weight, Standard 2 of 5, Telepen, UPC-A, UPC-E,<br>UPC-A and UPC-E with EAN 2 or 5 digit extension, UCC 128, UCC/EAN-128 K-Mart |                                     |
|                  | 2-D Bar codes         | Aztec code, Code 49,Codablock F , Datamatrix code, MaxiCode, Micro PDF417,<br>Micro QR code, PDF417,QR code, TLC 39                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |
| Code Pages       |                       | CODEPAGE 437, 850, 851, 852, 855, 857, 860, 861, 862, 863, 865, 866, 869, 737<br>WINDOWS 1250, 1251, 1252, 1253, 1254, 1255, 1257<br>Unicode UTF8, UTF16BE 、 UTF16LE                                                                                                                                                                                                                                                                                                                                                                                           |                                     |
| Graphics         |                       | Resident graphic file types are BMP and PCX, other graphic formats are<br>downloadable from the software                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |
| Interfaces       |                       | Serial port: RS-232(DB-9)<br>USB2.0<br>Ethernet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
| Control Panel    |                       | One Tri-color LED: Power(Green, Orange and Red)<br>Function Key: FEED<br>Calibration Button                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |

# APPENDIX

## PRODUCT SPENIFICATIONS

| Model            |                       | BPE300                                                                                                                                                                                                                            | BPE330 |
|------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Power            |                       | Auto Switching 100-240VAC, 50-60Hz                                                                                                                                                                                                |        |
| Environment      | Operation Temperature | 41°F to 104°F(5°C to 40°C)                                                                                                                                                                                                        |        |
|                  | Storage Temperature   | -4°F to 122°F (-20°C to 50°C)                                                                                                                                                                                                     |        |
| Humidity         | Operation             | 30-85%, non-condensing                                                                                                                                                                                                            |        |
|                  | Storage               | 10-90%, non-condensing                                                                                                                                                                                                            |        |
| Agency Approvals |                       | CE(EMC) 、FCC Class A 、CB 、UL 、cUL 、CCC                                                                                                                                                                                            |        |
| Dimension        | Length                | 9.88" (251mm)                                                                                                                                                                                                                     |        |
|                  | Height                | 6.46" (164mm)                                                                                                                                                                                                                     |        |
|                  | Width                 | 7.87" (200mm)                                                                                                                                                                                                                     |        |
| Weight           |                       | 1.8Kg ,excluding consumables                                                                                                                                                                                                      |        |
| Options          |                       | Cutter(Dealer Install)<br>External label unwind stand<br>External label rewinder<br>Bluetooth<br>Wireless LAN (IEEE 802.11 b/g/n)<br>Real Time Clock (RTC) (Dealer Install)<br>Left Alignment Printing Mechanism(Factory Install) |        |

## Notice

- \* Specifications are subject to change without notice. All company and/or product names are trademarks and/or registered trademarks of their respective owners.
- \*\* Minimum print height specification compliance can be dependent on non-standard material variables such as label type, thickness, spacing, liner construction, etc. Godex is pleased to test non-standard materials for minimum height printing capability.

## Pinout Description

- USB

Connector Type : Type B

| Pin NO.  | 1    | 2  | 3  | 4   |
|----------|------|----|----|-----|
| Function | VBUS | D- | D+ | GND |

- Serial Port

Default settings : Baud rate 9600, no parity, 8 data bits, 1 stop bit, XON/XOFF protocol and RTS/CTS

| RS232 Housing(9-pin to 9-pin) |   |   |                |  |
|-------------------------------|---|---|----------------|--|
| DB9 Socket                    |   |   | DB9 Plug       |  |
| -                             | 1 | 1 | +5V, max 500mA |  |
| RXD                           | 2 | 2 |                |  |
| TXD                           | 3 | 3 | TXD            |  |
| DTR                           | 4 | 4 | RXD            |  |
| GND                           | 5 | 5 | N/C            |  |
| DSR                           | 6 | 6 | GND            |  |
| RTS                           | 7 | 7 | RTS            |  |
| CTS                           | 8 | 8 | CTS            |  |
| RI                            | 9 | 9 | RTS            |  |
| Computer                      |   |   | N/C            |  |
|                               |   |   | Printer        |  |

- Ethernet

| PIN NO. | FUNCTION             |
|---------|----------------------|
| 1       | Transmit Plus        |
| 2       | Transmit Minus       |
| 3       | Receive Plus         |
| 4       | Bias of Transmission |
| 5       | NC                   |
| 6       | Receive Minus        |
| 7       | Bias of Receiver     |
| 8       | N/C                  |

## Notice

- \* The total current to the serial port may not exceed 500mA.